

ANNUAL GROUNDWATER MONITORING REPORT 2004-2005
RAPID REFUELER SITE
MARINE CORPS AIR STATION NEW RIVER
NORTH CAROLINA
Revision 0

Prepared for:

DEPARTMENT OF THE NAVY
Contract No. N62470-03-D-4000
Task Order No 0010



Atlantic Division
Naval Facilities Engineering Command
6506 Hampton Boulevard
Building C, Room 311
Norfolk, Virginia 23508

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17 June 2005

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We hereby certify that the Report shown and marked in this submittal is proposed to be incorporated into Contract Number N62470-03-D-4000, is in compliance with the contract drawings and specifications, can be installed in the allocated spaces, and is submitted for Government approval.

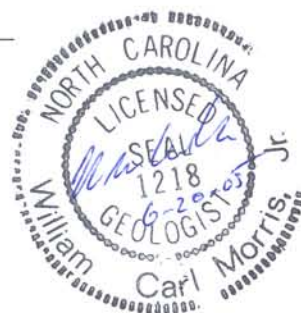


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17 June 2005



LIST OF ACRONYMS/ABBREVIATIONS

AFVR	Aggressive Fluid/Vapor Recovery
AVOC	Aromatic Volatile Organic Compound
bgs	below ground surface
Catlin	Richard Catlin and Associates, Inc. / Catlin Scientist and Engineers
CAP	Corrective Action Plan
CSA	Comprehensive Site Assessment
CSFF	Campbell Street Fuel Farm
Δh	change in head measured along direction of groundwater flow
ΔL	straight-line distance between groundwater head measurement locations.
DWM	Division of Waste Management
EEI	Engineering and Environment, Inc.
ft/dy	feet per day
GCL	Gross Contamination Level
i	hydraulic gradient
JP5	JP5 jet fuel
K	hydraulic conductivity
L	Liter
MCAS	Marine Corps Air Station
msl	mean sea level
NAVFACENGCOM	Navy Atlantic Division, Naval Facilities Engineering Command
NCDENR	North Carolina Department of Environment and Natural Resources
NCGS	North Carolina Geological Survey
NCGWQS	North Carolina Groundwater Quality Standard
n_e	effective porosity
PAH	Polynuclear Aromatic Hydrocarbons
Shaw	Shaw Environmental, Inc.
UST	Underground Storage Tank
V	groundwater linear flow velocity

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EXECUTIVE SUMMARY

On behalf of the Department of the Navy, Atlantic Division, Naval Facilities Engineering Command, Engineering and Environment, Inc. has prepared this annual groundwater monitoring report for the Rapid Refueler Site, Marine Corps Air Station New River, North Carolina. The report presents the findings of groundwater monitoring and free product recovery activities conducted from April 2004 through March 2005.

The site is an active aircraft refueling facility for the air field located at Marine Corps Air Station New River, North Carolina. Several JP5 jet fuel underground storage tanks and pipelines are present at the facility. JP5 is supplied to the USTs via a six-inch diameter fuel line connected to a fuel farm located approximately three quarters of a mile north of the site.

Several fuel releases have occurred over time in various portions of the Rapid Refueler site. Known or suspected releases include the following:

- An investigation reportedly was conducted in 1987 in response to a release from now-abandoned USTs (and fuel line) and to surface spills of fuel.
- From 1988 to 1992, one documented fuel spill occurred, and two-to-three possible fuel spills may have occurred, each involving approximately 1,200 to 2,000 gallons of fuel, due to inadvertent overfilling of site USTs during a fuel transfer from the fuel farm.
- In the early 1990's, the former A-B Tank Farm was removed. Information on site conditions observed during the removal is unavailable.
- In 1992, an investigation at the western portion of the site identified petroleum constituents in soil and groundwater, and free product in one well; a free product recovery system was installed and activated in 1994.
- In 1994, an investigation conducted in the northeastern portion of the site identified free product and dissolved petroleum constituents in shallow groundwater, and free product on surface water in a drainage ditch; deep groundwater and soils were not impacted.
- In March and April 1994, during removal of four tanks located in the C-D Tank area, petroleum impacted soils were identified, and free product was observed in one tank excavation; soil excavation was conducted in the area. Additional investigation in this area in 1996 indicated hydrocarbon impacts to shallow groundwater; free product was not encountered and soil impacts were minor.
- In October 2002, a fuel release occurred from piping beneath the current A-B Tank area. An investigation identified free product. Shallow groundwater impacts were minor, and no impacts were observed in surface water at a nearby retention pond. Soil samples at the release point could not be collected.
- In May 2003, a fuel release occurred to ground surface from piping at the C-D Tank area. The release was halted immediately; soil excavation subsequently was conducted. An investigation indicated that impacts to soils were limited. Some impacts to shallow groundwater were observed, and free product was present in one shallow well.
- In October 2003, a fuel release was detected in a pipeline at a refueler island located 550 feet northeast of the C-D Tank area. Soil was excavated, and a subsequent investigation indicated only minor impacts to soils. Some impacts to shallow groundwater were observed, and free product was present in shallow wells near the release.

The recent investigations concluded that the site meets criteria associated with North Carolina Department of Environment and Natural Resource's Intermediate Risk classification and Industrial/Commercial land use, and remediation of vadose zone soils will not be necessary. Dissolved-phase groundwater impacts are limited to shallow groundwater of the surficial aquifer; no constituents have been detected above Gross Contaminant Levels, and no constituents in deep wells have been detected above North Carolina Groundwater Quality Standards. Free product has only been detected at shallow surficial aquifer wells.

The recent investigations recommended free product removal via Aggressive Fluid/Vapor Recovery methods. Once free product was no longer present, groundwater sampling was recommended to evaluate groundwater quality. Lastly, it was recommended to develop a comprehensive remedial approach to address all of the individual releases at the Rapid Refueler site in a unified manner, and indicated that development of the comprehensive approach was planned for 2005.

In April 2004, the current groundwater monitoring and product recovery program was initiated. The program included gauging at up to approximately 40 site wells, typically on a weekly basis. Free product recovery via Aggressive Fluid/Vapor Recovery, hand bailing, and/or installation of sorbent socks was conducted as needed. Field activities were concluded in March 2005.

Data from the current program indicate that shallow surficial aquifer groundwater flow directions are consistent, with flow to the northeast in the eastern portion of the site and flow to the northwest in the western portion of the site. Deep surficial aquifer groundwater flow directions also are consistent over time, with flow to the northeast across the site. Vertical gradients are minor and vary across the site, with both upward and downward gradients observed, suggesting vertical flow within the surficial aquifer is minor. Gauging data from the current monitoring program identified free product in the central portion of the site; the thickness and estimated extent of the product appear to be decreasing over time. Numerous Aggressive Fluid/Vapor Recovery events conducted at several wells during the program removed a large mass of product from the site; the apparent reduction in product thickness and extent is considered to be a direct response to the product removal.

It is recommended to continue a program of frequent gauging and Aggressive Fluid/Vapor Recovery events to monitor and remove free product at the site. The planned development of a unified remedial approach that addresses and consolidates all of the individual release events at the Rapid Refueler site should proceed.

SECTION 1 INTRODUCTION

On behalf of the Department of the Navy, Atlantic Division, Naval Facilities Engineering Command (NAVFACENGCOM), Engineering and Environment, Inc. (EEI) has prepared this annual groundwater monitoring report for the Rapid Refueler Site, Marine Corps Air Station (MCAS) New River, North Carolina. The report presents the findings of groundwater monitoring and free product recovery activities conducted from April 2004 through March 2005. This report and the methods used to acquire the data in support of this report have been prepared in accordance with the North Carolina Department of Environmental Resources (NCDENR), Division of Waste Management (DWM), Underground Storage Tank (UST) Section guidelines (NCDENR, 2002; NCDENR, 2003) and the site specific work prepared for this site by EEI (EEI, 2003).

Several release incidents have occurred at the site, and NCDENR has assigned incident numbers 5668, 21273, and 32004 to various site releases. Previous site investigations have indicated the site meets criteria associated with NCDENR's Intermediate Risk classification and Industrial/Commercial land use (Catlin, 2003a, 2003b, 2004).

1.1 Site Description

The site is located on MCAS New River in Onslow County, North Carolina (34°, 42', 44" N, 77°, 26', 40" W) (Figure 1-1). Within the New River, the site is located to the north-northeast of the MCAS air field (Figure 1-2). The area is an active aircraft refueling facility for the air field. Concrete parking for aircraft is located north of the refueling area. The site is characterized by flat topography, with open grasslands and extensive paved surfaces present.

Several JP5 jet fuel (JP5) USTs and pipelines are present at the facility. JP5 is supplied to the USTs via a six-inch diameter fuel line connected to a fuel farm (Campbell Street Fuel Farm, CSFF) located approximately three quarters of a mile north of the site (Catlin, 1994).

No permanent surface water bodies are present at the site. A retention pond is located on the eastern side of the site. The retention pond receives surface drainage from storm sewers and drainage ditches. Water in the retention pond discharges to a drainage ditch, also located on the eastern portion of the site; the drainage ditch discharges to the New River (Catlin, 1994).

The nearest mapped surface water body is the New River, located approximately 4,000 feet east of the site. No potable water supply wells are located within 1,500 feet of the site (Catlin, 2004). Potable water supply wells throughout New River and the adjacent Marine Corps Base Camp Lejeune draw water from the Castle Hayne aquifer at depths typically of at least 150 feet.

1.2 Site Release, Investigation, and Remediation History

Several releases have occurred over time in various portions of the Rapid Refueler site. Details regarding earlier releases generally are unavailable. Figure 1-3 illustrates the location of releases if known.

Reportedly, an investigation was conducted in 1987 in response to a release from now-abandoned USTs (and fuel lines) and to surface spills of fuel. Additional details are unavailable (Catlin, 1994).

From 1988 to 1992, three-to-four JP5 spill incidents, each involving approximately 1,200 to 2,000 gallons of fuel, may have occurred, including one documented incident that occurred on 28 January 1992 in which approximately 1,500 gallons of JP5 was released due to inadvertent overfilling of site USTs during a fuel transfer from the CSFF. No documentation is available regarding the other possible incidents (Catlin, 1998).

In the early 1990's, the former A-B Tank Farm (located approximately 150 feet northeast of the current A-B Tank area) was removed (Catlin, 1998). The former tank farm was replaced with the current A-B and C-D Tank area (Catlin, 2003a). Additional details regarding removal of the fuel farm are unavailable.

In 1991, an investigation was conducted at a valve box associated with a now-abandoned pipeline leading from the CSFF. This investigation identified petroleum constituents in soil and groundwater, and further investigation was conducted beginning in June 1992. This investigation reportedly included in part installation of wells MW-8 through MW-14 and wells DW-5 and DW-6, all located on the western portion of the site. The investigation identified total petroleum hydrocarbons as jet fuel in soil, dissolved-phase aromatic hydrocarbons in groundwater, and measurable free product in well MW-10. A free product recovery system was installed in six recovery wells and activated in the spring of 1994 (Catlin, 1994).

A Comprehensive Site Assessment (CSA) was conducted in the northeastern portion of the site in 1994. The investigation included: advancing 15 hydropunches; installing 12 shallow monitoring wells (RR-1 through RR-12), two deep monitoring wells (RR-13 and RR-14), and one intermediate-depth well (RR-15); collecting soil and groundwater samples for laboratory analyses; conducting three shallow well slug tests; and performing an aquifer pumping test at the intermediate depth well. The 1994 CSA indicated vadose zone soils were not impacted with petroleum hydrocarbons or lead. Dissolved-phase petroleum-related constituents (aromatic volatile organic compounds, AVOCS, and polynuclear aromatic hydrocarbons, PAHs) were detected in groundwater samples collected in shallow well groundwater samples at concentrations above North Carolina Groundwater Quality Standards (NCGWQSs) established at that time. Additionally, measurable free product was detected in one shallow well (MW-10) and on surface water in a drainage ditch located northeast of the current A-B Tank area. Samples collected from deep wells did not exhibit petroleum impacts. It was recommended to prepare a Corrective Action Plan (CAP) to address free product and dissolved-phase groundwater constituents present above NCGWQSs (Catlin, 1994).

In March and April 1994, one 1,000-gallon oil/water separator UST system and three 500-to-1,000 gallon JP5 UST systems (former USTs AS-511-3, 548, and 549, located in the C-D Tank area along the western portion of the site) were removed. Soil samples collected from the UST excavations indicated petroleum impacted soil was present, and free product was observed in one

excavation. Approximately 800 cubic yards of petroleum impacted soil were excavated and transported off site for disposal (Catlin, 1996).

In 1996, a CSA was prepared to address soil and groundwater conditions in the vicinity of the C-D Tank area former USTs. The investigation included: advancing 15 hydropunches; installing five shallow wells (AS511-1 through AS511-4 and AS511-8) and three deep wells (AS511-5 through AS511-7); performing three shallow well slug tests; conducting grain size analyses on two soil samples; and collecting soil and groundwater samples for laboratory analyses. The investigation indicated hydrocarbon impacts to vadose zone soils were present but limited. Concentrations of dissolved-phase AVOCs and PAHs exceeded then-established NCGWQSs at a limited number of shallow hydropunch locations. Free product was not encountered in wells in the investigation area (Catlin, 1996).

A Corrective Action Plan (CAP) was prepared in 1998 to address petroleum impacts identified in the 1994 and 1996 CSA investigations. Additional site investigation activities were conducted as part of the CAP, including: installing four temporary shallow wells, installing three shallow wells (RR-16, RR-18, and RR-22), and collecting soil and groundwater samples for laboratory analyses. Data from the investigation indicated that petroleum impacts to vadose zone soil are very limited. Potential impacts to surface water in the retention pond and the drainage ditch located in the eastern portion of the site were considered low, as groundwater samples collected from wells upgradient of the pond and ditch did not exhibit evidence of petroleum impacts, nor was there evidence of petroleum-impacted groundwater or free product infiltrating the storm drain system. The dissolved-phase petroleum constituent plume appeared to be receding, possibly due to natural attenuation mechanisms, based on comparison of the data collected for the CAP to data collected from the earlier investigations. The recommended remedial response was the use of Aggressive Fluid/Vapor Recovery (AFVR) to remove free product and address the limited vadose zone soil contamination. The product recovery system (installed in 1994, discussed above) would be removed for the AFVR events, then re-installed to address residual free product. Dissolved-phase constituents would be addressed via monitored natural attenuation. Periodic groundwater gauging and sampling would be conducted to monitor remediation progress (Catlin, 1998). (The free product recovery pumps were not in place at recovery wells RR-1G through RR-6G during the April 2004 – March 2005 period of this monitoring program, and AFVR events were conducted frequently at several of these wells throughout the duration of this program.)

In October 2002, a release to the subsurface of an unknown quantity of JP5 was detected at a breach in the fuel distribution piping beneath the distribution pit in the A-B Tank area. The pipeline was excavated and repaired. A CSA was conducted in 2003 to investigate the release. The investigation included installing five shallow wells (AS467-MW1 through AS467-MW5) and one deep well (AS467-6), and collecting soil and groundwater samples for laboratory analyses. Results of the investigation indicated measurable free product was present in the vicinity of the release. Dissolved-phase petroleum impacts were limited to one constituent (naphthalene) reported at one shallow well (UST467-MW5) at a concentration slightly above the NCGWQS and substantially below the Gross Contamination Level (GCL). No constituents were detected in a sample collected from the retention pond. Petroleum constituents in soil were below soil-to-groundwater maximum soil contaminant concentrations, although it was noted that

subsurface soil samples could not be collected in the immediate area of the release due to physical constraints (the release occurred beneath the central portion of a concrete-covered pit). It was concluded that the site meets criteria associated with NCDENR's Intermediate Risk classification and Industrial/Commercial land use. The 2003 CSA indicated soil sampling in the immediate vicinity of the release area may be necessary, and installation of a downgradient monitoring point may be needed to delineate the extent of free product and dissolved-phase petroleum constituents. It was recommended to prepare a CAP for the site, and noted that the additional assessment activities could be conducted in conjunction with the CAP preparation. AVFR was identified as a potential remedial response, and indicated remediation of soils may be necessary, pending review of results for suggested source area soil samples (Catlin, 2003b).

On 23 May 2003, a JP5 release occurred from a fuel transfer line near Building AS-512 at the C-D Tank area. An undetermined amount of fuel flowed approximately 250 feet along a drainage ditch adjacent to the tarmac. Facility personnel responded immediately, halting and containing the release, and then performed an initial excavation of impacted soil. Additional soil subsequently was excavated, with approximately 1,100 cubic yards of soil removed and transported offsite for disposal during the second excavation event. Approximately 30 feet of pipeline then was replaced. A third excavation event was conducted following receipt of laboratory analytical results for soil samples that had been collected after the second excavation event. The quantity of soil removed during the third event was unavailable (Catlin, 2003a).

A preliminary site assessment was conducted in the vicinity of the May 2003 release. The assessment included advancing 20 direct push technology probes, installing two shallow wells (AS512-MW15 and AS512-MW16), and collecting soil and groundwater samples for laboratory analyses. The investigation indicated that petroleum impacts to vadose zone soils were limited. Some dissolved phase petroleum constituents were present at concentrations above NCGWQSs but substantially below GCLs. Free product was detected in one shallow well installed in an area immediately adjacent to the release. It was concluded that the site meets criteria associated with NCDENR's Intermediate Risk classification and Industrial/Commercial land use, and that no additional remedial action was needed to further address vadose zone soils. It was recommended to address free product removal, and that the product removal activities could be conducted in association with on-going remedial activities being conducted in other areas of the Rapid Refueler site. The report indicated an engineering evaluation to assess the integrity of the fuel delivery system and was scheduled to begin later in 2003 (Catlin, 2003a).

In October 2003, a release of an unknown quantity of JP5 was detected along a fuel distribution pipeline. The release point was located approximately 550 feet northeast of the C-D Tank area at a refueler island and was attributed to loosely secured caps on the pipeline. Approximately 225 cubic yards of soil was excavated from the immediate area of the leak and transported offsite for disposal. Pipeline repairs were conducted in November and December 2003 (Shaw, 2004).

A Phase II Limited Site Assessment was conducted in 2004. Assessment activities included installing four shallow wells and collecting soil and groundwater samples for laboratory analyses. The investigation indicated only limited petroleum impacts to vadose zone soils. Some petroleum constituents were present in shallow wells at concentrations above NCGWQSs but substantially below GCLs. Free product was detected in shallow wells near the release. It

was concluded that the site meets criteria associated with NCDENR's Intermediate Risk classification and Industrial/Commercial land use, and remediation of vadose zone soil was not considered necessary. Free product removal was recommended, with groundwater sampling conducted once free product was no longer present. It further was recommended to prepare a CAP, and noted that a comprehensive remedial approach to address all of the individual releases at the Rapid Refueler site was planned for 2005 (Catlin, 2004).

In April 2004, the current groundwater monitoring program was initiated. The program included well gauging at up to approximately 40 site wells, typically on a weekly basis. Free product recovery via AFVR, hand bailing, and/or installation of sorbent socks was conducted as needed. Field activities were concluded in March 2005 (EEI, 2003).

Data for the current monitoring program are discussed in the following sections. Section 2 describes field methods used at the site. Section 3 discusses hydrogeologic characteristics of the site. Product gauging and recovery data and their significance are presented in Section 4. Section 5 provides conclusions and recommendations based on review of the data. References cited in the report are listed in Section 6. Figures and tables are organized after the text. Supporting documentation (field gauging records, product recovery calculations and field records) are contained in Appendices A and B.

SECTION 2 FIELD PROGRAM

Field methods employed during the groundwater monitoring program are discussed briefly below. Activities were conducted in accordance with NCDENR guidance (NCDENR, 2002 and 2003) and as per the work plan (EEI, 2003).

2.1 Well Gauging

Well gauging was on a frequent basis, typically weekly. During the gauging events, approximately 40 wells generally were gauged. Seven wells (RR-1, RR-3, RR-8, RR-13, RR-19, MW-9, and MW-11) could not be located. Well gauging was conducted using an electronic interface probe to measure the depth to water and depth to product (if present). Data were recorded to the nearest 0.01 foot and referenced to the surveyed top of casing. Appendix A presents summary tables of the depth-to-water and depth-to-product gauging data; field gauging data sheets also are presented in Appendix A.

During the gauging events, measurable free product was observed frequently at wells RR-12, RR-16, RR-18, RR-20, RR-1G, RR-2G, and RR-5G. Additionally, measurable free product was observed on two or fewer occasions at well RR-17, RR-22, RR-4G, MW-10, and MW-12.

2.2 Product Recovery

At wells exhibiting measurable free product during a gauging event, free product recovery activities were conducted. Generally, AFVR methods (involving application of a truck-mounted vacuum pump to the well to withdraw free product and groundwater, with fluids contained in a holding tank mounted on the truck) were used to recovery free product. The AFVR events generally were conducted the week following the gauging events. At wells exhibiting limited product thickness (e.g., less than approximately 0.1 foot), product recovery by hand bailing or installation of a sorbent sock was conducted.

2.3 Equipment Decontamination and Waste Handling Procedures

Fluids recovered during the AFVR events were transported in the AFVR truck to Lot 203 on MCB Camp Lejeune. Fluids recovered by hand bailing were temporarily containerized in a portable holding container and transported to Lot 203. The fluids were processed through a groundwater treatment system located at the lot.

The interface probe was decontaminated after each use by washing with an Alconox/deionized water mixture, followed by a DI water rinse. Decontamination fluids generated during the gauging events were contained in a portable holding container. The fluids were processed through the groundwater treatment system located at Lot 203. Other miscellaneous material were collected and bagged as they were generated. This material was treated as normal solid waste and placed in EEI's refuse container at Lot 203.

2.4 Well Maintenance

During the sampling event, any brush, debris, and/or liter in the vicinity of the well heads were cleared. The well heads, casing risers, well pads, bollards, well caps, locks, etc. were inspected for damage or deterioration. All wells generally appeared to be undamaged and in serviceable condition.

SECTION 3 HYDROGEOLOGY

The hydrogeologic characteristics of the subsurface substantially control the movement of groundwater, which strongly influences contaminant movement. The regional geologic setting provides a framework for understanding and interpreting the site-specific hydrogeology. Knowledge of the latter allows for evaluating groundwater flow at a scale relevant to the monitoring program.

3.1 Regional Hydrogeology

The site is located in the eastern portion of the Coastal Plain Physiographic Province of North Carolina. The Coastal Plain consists of nearly flat to gently dipping sedimentary strata of varying composition that overlie a crystalline basement complex. Approximately 80 miles northwest of the site, the Coastal Plain pinches out where it contacts the Piedmont Physiographic Province along the Fall Line. East of the Fall Line, the sediments gradually thicken, reaching a maximum thickness of approximately 10,000 feet at Cape Hatteras, North Carolina. In the vicinity of the site, the sedimentary sequence is estimated to be approximately 2,000 feet thick (NCGS, 1988).

Surficial deposits of Quaternary age are present in and around the area of the site, typically at thicknesses ranging from about 25 to 80 feet. The uppermost mapped unit in the area of the site is identified as the River Bend Formation of Tertiary age, described as a calcareous limestone interlaced with indurated sandy, molluscan limestone (NCGS, 1985). The River Bend Formation overlies the Castle Hayne Formation, also of Tertiary age. The Castle Hayne Formation is described as gray to cream colored, fine grained to fossiliferous calcareous limestone with minor amounts of fine quartz, glauconite, and phosphate (NCGS, 1988). The thickness of the Castle Hayne Formation in the vicinity of the site is estimated at approximately 300 feet. The Castle Hayne aquifer is a primary source of potable water for the area.

3.2 Site Hydrogeology

The topography of the site is predominantly flat and includes grasslands and extensive areas of paved surface. Storm drainage (runoff) is controlled by surface ditches and storm drains that discharge to a retention pond located on the eastern portion of the area. A shallow drainage ditch, also present in the east portion of the site, receives water from the retention pond and discharges to New River. The nearest named surface water body is the New River, located approximately 4,000 feet east of the site.

Shallow soil at the site includes a mixture of unconsolidated sands, silts, and clays, and non-indurated limestone. First saturated soils of the surficial aquifer typically were encountered at depths of five to 10 feet bgs. The uppermost 10 to 12 feet is described as clays and silty to clayey sands. This is underlain by very fine-to-medium-to-coarse sands with sandy clay layers that extend to a depth of approximately 25 feet in the western portion of the site, whereas relatively clean sands are observed to a depth of approximately 40 feet bgs in the eastern portion of the site. Below the sands, a silty, clayey calcareous sand and non-indurated, weathered

fossiliferous gravelly limestone unit was encountered. The limestone generally extends to at least 50 feet bgs (the maximum depth of borings advanced at the site), although one boring advanced in the eastern portion of the site identified very fine silty sand below the weathered limestone at a depth of approximately 42 feet bgs. The limestone was considered possibly representative of the upper portion of the Castle Hayne Aquifer. No confining unit was identified at the site (Catlin, 1994; 1996; 2003a; 2003b; 2004).

From a review of boring logs generated during previous investigations, all of the monitoring wells included in the monitoring program are considered to be screened in the surficial aquifer; deeper wells (those with total depths of approximately 50 feet bgs) may be screened in a transitional material between the surficial aquifer and the Castle Hayne aquifer. However, no lithologies are logged which would be interpreted as a confining unit, and previous investigations at the site have concluded that no confining unit is present in the upper 50 feet of the subsurface (the approximate maximum depth that boreholes have been advanced during previous investigations). Consequently, the surficial aquifer at the site appears to extend from first saturation (encountered at approximately five to 10 feet bgs) to at least 50 feet bgs.

Within the surficial aquifer, wells have been installed to various depths. Table 3-1 presents a summary of well construction data as reported from previous studies, and includes a brief description of the screened formation (Catlin, 1994, 1996, 1998, and 2004). Well construction data for some wells (wells MW-3 and MW-4, MW-8 through MW-13, DW-2, DW-5, DW-6, and RR-1G through RR-6G) could not be located.

From a review of the well construction data, wells were designated to either a shallow or deep hydrogeologic zone, corresponding to screened intervals of approximately 5-to-15 feet bgs and 45-to-50 feet bgs, respectively (Table 3-1). One well, RR-15, was designated as an intermediate zone well as the screened zone extends from approximately 3-to-33 feet bgs. (As discussed below, the well appears to monitor the shallow zone.) For wells where construction data were not available, assignment to the shallow or deep hydrologic zone was based on their designation as a Type II (shallow) or Type III (deep) well in previous reports (Catlin, 1994, 1996, 1998, and 2004).

Table 3-1 includes top-of-casing elevation data for well included in the monitoring program. These data were not available for wells RR-1G through RR-6G and well RR-17. Additionally, the top-of-casing elevations reported for shallow wells RR-19, RR-20, and RR-21 are considered suspect as the reported elevation is several feet higher than nearby wells, whereas the surface topography in this portion of the site is very flat. (Well RR-19, which was not included in the monitoring program, is identified in the field as MW-16; maps in this report designate the well as MW-16.)

Using the top-of-casing elevation data and gauging data recorded during the quarterly events, groundwater elevations for the site monitoring wells were calculated. Table 3-2 presents the groundwater elevation data for the current monitoring program and includes four gauging events conducted from 1994 to 1997. For wells exhibiting measurable free product, the groundwater elevation was corrected by adding 80 percent of the product thickness to the calculated groundwater elevation. (The product thickness was multiplied by 80 percent as the specific

gravity of the product is assumed to be 0.8.) (Product thickness data is summarized in Table 4-1 and discussed in Section 4; field measurements of depth-to-water and depth-to-product respectively are presented in Tables A-1 and A-2 of Appendix A.)

The elevation data for the shallow and deep wells were used to construct surficial aquifer groundwater elevation maps, with one shallow and one deep zone map prepared for each quarter. (In preparing the shallow well maps, data from wells RR-19, RR-20, and RR-21 were excluded as the top-of-casing elevations are suspect. Additionally, data from the intermediate well RR-15 was not used; elevation data from the adjacent shallow well RR-11 was used instead.) Figures 3-1 and 3-2 respectively present groundwater elevation maps for shallow and deep wells for May 2004; Figures 3-3 and 3-4, Figures 3-5 and 3-6, and Figures 3-7 and 3-8 similarly present the August 2004, November 2004, and February 2005 groundwater elevation maps.

From the groundwater elevation maps, groundwater flow directions can be estimated. A review of the shallow well maps indicates groundwater flow generally is consistent over time. In the central and eastern portions of the site, groundwater flows to the northeast. In the western portion of the site, groundwater flow typically is to the northwest, although data from 10 August 2004 exhibits an area of somewhat elevated groundwater at well MW-3 that is not present in the other maps, resulting in a more complicated flow pattern that includes a southeasterly flow component in this area (Figure 3-3).

As with the shallow well groundwater flow maps, a review of the intermediate well groundwater elevation maps indicates flow directions generally are consistent over time, with the dominant flow direction to northeast. Along the eastern portion of the site, groundwater flow is to the north-northeast; in the western portion of the site, groundwater flow is to the east-northeast.

The horizontal gradient i is calculated using the standard equation $i = \Delta h / \Delta L$, where Δh is the change in head measured along the direction of groundwater flow, and ΔL is the straight-line distance between the measurement locations. For each of the gauging events, the horizontal gradient has been calculated using data from a well pair that is closely aligned with the groundwater flow direction. For the shallow zone, well pairs include AS511-1 / RR-10, AS511-3 / MW-3, and AS511-4 / MW-4 (Table 3-3).

From Table 3-3, the average horizontal for all listed gauging events is 0.0049 for well pair AS511-1 / RR-10, 0.0051 for well pair AS511-3 / MW-3, and 0.0056 for well pair AS511-4 / MW-4. The overall average for the three shallow well pairs for all listed gauging events is 0.0052. (The average is calculated by summing all of the calculated gradients for each well pair and dividing by the total number of gauging events for each pair.)

For the deep hydrogeologic zone, horizontal gradients were calculated for well pairs DW-6 / RR-14 and AS511-7 / AS511-5. The average horizontal gradient calculated for well pair DW-6 / RR-14 is 0.0052, and the average horizontal gradient calculated for well pair AS511-7 / AS511-5 is 0.0021. The average horizontal gradient for both well pairs is 0.0035 (calculated in the same manner as for the shallow well pairs).

The groundwater linear flow velocity V is calculated using the standard equation $V = (Ki) / n_e$, where i is the horizontal gradient (discussed above), K is the hydraulic conductivity, and n_e is the effective porosity. Previous investigations have provided estimates of shallow zone K , based on grain size analyses, slugs tests, and a pumping test; shallow zone estimates of n_e were based on examination of subsurface soil samples. The investigations identified values for K of: 18 feet per day (ft/dy), 15 ft/dy, 20 ft/dy, 23.78 ft/dy, 23.78 ft/dy, and 77.14 ft/dy (Catlin, 1994 and 1996). The geometric mean of these values is 17 ft/dy. (A geometric mean rather than an arithmetic mean is calculated, as the hydraulic conductivities follow a log normal distribution [Dominico and Schwartz, 1990]). Estimates of n_e include 0.25 (dimensionless), 0.39, and 0.25 (Catlin, 1994, 1996, and 2003b). The arithmetic average of these values is 0.30. (An arithmetic mean is calculated, as porosities follow a normal distribution [Dominico and Schwartz, 1990]). Estimates for deep zone K and n_e were not developed in the previous studies.

Using the average values for shallow zone K and n_e and the shallow zone horizontal gradients calculated for the three shallow well pairs discussed above, linear flow velocities for the gauging events have been calculated (Table 3-3). From Table 3-3, the average linear velocity is 0.275 ft/dy for well pair AS511-1 / RR-10, 0.290 for well pair AS511-3 / MW-3, and 0.313 for well pair AS511-4 / MW-4. Overall, the average linear flow velocity for the shallow zone well pairs is 0.293 ft/dy. (Linear flow velocities for deep zone well pairs could not be calculated as estimates of K and n_e were not available.)

The calculated velocities do not account for tortuosity (a parameter describing the deviation from a straight line flow path as groundwater moves around and between grains of soil). Consequently, at scales comparable to the size of the site, the linear velocity will overestimate the effective distance groundwater will travel for a given period of time.

From Table 3-2, groundwater elevations calculated for the individual members of the shallow/intermediate/deep well cluster respectively composed of wells RR-11, RR-15, and RR-14, of the shallow/deep well pair respectively composed of wells AS511-1 and AS511-5, and of the shallow/deep well pair respectively composed of wells AS511-2 and AS511-6 are not identical. Figures 3-9, 3-10, 3-11, and 3-12 respectively present hydrographs for each of these clusters using data collected during the current monitoring program. Table 3-4 presents vertical gradient calculated for these well clusters. (Vertical gradients for other well clusters could not be calculated, either because groundwater elevation data were unavailable or well construction information was not available.)

From Figure 3-9, deep well RR-14 consistently exhibits groundwater elevations typically one half-to-one foot higher than that at shallow well RR-11 or at intermediate well RR-15. Elevation differences observed between the intermediate well RR-15 and shallow well RR-11 typically exhibit only minor differences. These data suggest the intermediate well RR-15 and the shallow well RR-11 both monitor the shallow zone, whereas deep well RR-14 monitors the deep zone. The greater groundwater elevation in deep well RR-14 indicates that any potential vertical flow in this portion of the site (the eastern portion) would be upward. From Table 3-4, a negative vertical gradient (signifying an upward gradient) is calculated between RR-14 and both RR-11 and RR-15 for all of the current monitoring program data, with the average vertical gradient calculated as -0.016 (dimensionless) between RR-14 (deep) and RR-11 (shallow) and -0.022

between RR-14 (deep) and RR-15 (intermediate). The vertical gradients calculated between wells RR-11 (shallow) and RR-15 (intermediate) vary from 0.039 to -0.006 , with a 0.008 average. The inconsistency of the vertical gradient between the shallow and intermediate wells at this cluster again indicates the two wells are monitoring the same (shallow) hydrogeologic zone.

Unlike the groundwater data observed at the RR-11 / RR-14 shallow/deep well pair, a review of Figures 3-10, 3-11, and 3-12 indicates groundwater elevations in the shallow members of the AS511-1 / AS511-5, AS511-2 / AS511-6, and AS511-3 / AS511-7 well pairs are greater than the corresponding deep wells. For the AS511-1 / AS511-5 well pair, groundwater elevations in shallow well AS511-1 typically are somewhat more than one foot greater than observed at deep well AS511-5 (Figure 3-10). For the AS511-2 / AS511-6 and AS511-3 / AS511-7 well pairs, groundwater elevations in the shallow wells typically are one half-to-one foot greater than observed at the corresponding deep wells (Figures 3-11 and 3-12). Vertical gradients calculated for the AS511-1 / AS511-5 well pair average to 0.026; at the AS511-2 / AS511-6 well pair, the average vertical gradient is 0.014; at the AS511-3 / AS511-7 well pair, the average vertical gradient is 0.007. The higher shallow well groundwater elevation relative to the associated paired deep wells (and corresponding positive vertical gradients) indicates potential groundwater flow in the vicinity of these wells (located in the eastern portion of the site) would be downward.

The average vertical gradient for all four of the shallow/deep well pairs is -0.016 , indicating an average upward vertical gradient for the site. The relatively small vertical gradients, limited shallow/deep well groundwater elevation differences, and spatially inconsistent vertical gradient directions suggest all wells at the site monitor a single vertically hydraulically connected system. The degree of vertical hydraulic communication varies somewhat laterally, possibly due to minor variations in lithology. Vertical flow is expected to be minor given the small and directionally inconsistent vertical gradients.

SECTION 4

FREE PRODUCT GAUGING AND RECOVERY RESULTS

Gauging data was recorded at site wells frequently (typically weekly) over a one year period, from April 2004 through March 2005. Gauging events included measuring depth-to-water and depth-to-product, if present. If measurable free product was detected, product recovery activities were conducted, either by AFVR, hand bailing, or installation of a sorbent sock. Estimates of product recovery mass were calculated for the AFVR events. Appendix A includes summary tables of field gauging data and field gauging data records. Appendix B presents the AFVR product recovery mass calculations.

4.1 Free Product Gauging Results

Table 4-1 summarizes product thickness data for the current monitoring program and includes gauging data from four gauging events conducted from 1994 through 1997. Field measurements (depth-to-water and depth-to-product) respectively are summarized in Tables A-1 and A-2 of Appendix A. Field gauging data records also are presented in Appendix A.

From Table 4-1, a majority of the wells included in the gauging program did not exhibit measurable free product over the one year monitoring period or during the four previous gauging events included in the table, and only shallow zone wells exhibited measurable free product. Twelve wells exhibited measurable free product during one or more gauging events, including the following: RR-1G, RR-2G; RR-4G; RR-5G; RR-12; RR-16; RR-17; RR-18; RR-20; RR-22; MW-10; and MW-12. Of these wells, measurable free product was reported no more than twice at the following five wells: RR-4G; RR-17; RR-22; MW-10; and MW-12. The maximum product thickness detected at these five wells was 0.04 foot.

The product thickness data have been used to prepare maps of the estimated extent of free product at the site. One shallow well free product map has been prepared for each month of the monitoring program, with Figures 4-1 through 4-12 respectively presenting free product thickness data from April 2004 through March 2005.

From the maps, measurable free product is present only in the central portion of the site, extending west and north from the A-B Tanks area. Over time, the estimated extent of free product appears to be decreasing. The decrease likely reflects the recovery of free product during the monitoring period, primarily through frequent AFVR events.

Seven wells (RR-1G; RR-2G; RR-5G; RR-12; RR-16; RR-18; and RR-20) exhibited measurable free product on more than two gauging events. For each of the wells, graphs of product thickness over time have been prepared. Figures 4-13 through 4-19 respectively present product thickness data for gauging events conducted during the current monitoring programs at wells RR-1G, RR-2G, RR-5G, RR-12, RR-16, RR-18, and RR-20.

In reviewing the graphs, the product thickness at each well exhibits some variation between successive gauging events. At well RR-2G, measurable free product was detected consistently during a brief period extending from November 2004 through early January 2005, over which

time a maximum product thickness of 0.23 foot was observed (Figure 4-14). Measurable free product was not observed after 5 January 2005 through 31 March 2005 (the end of the monitoring period). Prior to November 2004, free product was detected only once, at a thickness of 0.02 foot on 6 July 2004 (Table 4-1). Several of the wells, including wells RR-1G, RR-5G, RR-12, and RR-16 appear to exhibit an overall decrease in product thickness over time (Figures 4-13, 4-15, 4-16, and 4-17). At wells RR-18 and RR-20, the product thickness data exhibit considerable variability (Figures 4-18 and 4-19). Overall, it appears that the product thickness is decreasing over time in both wells, although the apparent trend is less clear than that observed in wells RR-1G, RR-5G, RR-12, and RR-16. As with the apparent decrease in the estimated extent of free product at the site, the apparent reduction in product thickness at these wells likely reflects the recovery of free product through frequent AFVR events.

4.2 Free Product Recovery Results

Free product recovery activities included AFVR events, hand bailing, and installation of sorbent socks. Of these activities, the volume of free product removed by hand bailing was limited (typically a few ounces for a given event at a well), and product recovered in sorbent socks could not be quantified. AFVR events generally resulted in substantial removal of product, and data recorded during the AFVR field events were used to calculate an estimated product removal mass. Calculations followed procedures presented in NCDENR guidance, with data specific to JP5 jet fuel used in place of the guidance documents data on gasoline (NCDENR, 2002). Appendix B discusses the computational methods, identifies the JP5 fuel specific values used, tabularizes the mass removal calculations, and presents the AFVR field data records. In completing the calculations, the results are considered a general indicator of the product mass removed, as many of the input parameters are inexact quantities (e.g., flame ionization detector readings were used to estimate AFVR vapor stream concentrations, molecular weight and product density for JP5 can vary depending on the specific composition and degree of weathering of the fuel, etc.)

Graphs of estimated product mass removal over time were prepared for all wells at which AFVR events were conducted over the course of the monitoring period. Figures 4-20 through 4-26 respectively present monthly and cumulative estimated product mass removed for wells RR-1G, RR-2G, RR-5G, RR-12, RR-16, RR-18, and RR-20. Figure 4-27 presents the estimated total mass of recovered product from all wells at which AFVR events were conducted during the program. Table 4-2 summarizes the monthly and cumulative AFVR mass removal totals for each well and for the site as a whole.

From the figures, the greatest mass of recovered product occurred at wells RR-12, RR-18, and RR-20, with approximately 100,000 pounds of product recovered from each well over the one year period (Figure 4-23, 4-25, and 4-26). Somewhat lesser amounts were recovered from wells RR-16 and RR-1G (mass removal estimates on the order of 10,000 and 30,000 pounds, respectively) (Figures 4-24 and 4-20). Relatively smaller quantities were recovered at well RR-2G and RR-5G (mass removal estimates on the order of 4,000 and 8,000 pounds, respectively) (Figures 4-21 and 4-22). The cumulative total fuel mass removed by AFVR methods for all wells at the site over the course of the program is estimated at approximately 350,000 pounds.

While the specific calculated quantities are subject to uncertainties, the data clearly indicate that AFVR is effective at removing a substantial fuel mass from the site. In conjunction with the gauging data, use of AFVR to remove fuel from the site also appears to be reducing the thickness and lateral extent of free product at the site.

SECTION 5 CONCLUSIONS AND RECOMMENDATIONS

Conclusions and recommendations have been developed based on an evaluation of site data. Each is discussed below.

5.1 Conclusions

The following conclusions have been drawn based on site data:

- Shallow surficial aquifer groundwater flow direction generally is consistent over time, with flow to the northeast in the eastern portion of the site and to the northwest in the western portion of the site; groundwater flow in the deep hydrologic zone of the surficial aquifer similarly is consistent, with flow to the northeast across the site.
- Vertical gradients between the shallow and deep hydrogeologic zones of the surficial aquifer are small and directionally variable across the site, with both upward and downward gradients observed; the average vertical gradient across the site is slightly upward; the small and varied direction of the vertical gradients suggests vertical flow within the surficial aquifer is minor.
- No water supply wells have been identified within 1,500 feet of the site, and supply wells at the base do not draw water from the surficial aquifer but from the deeper Castle Hayne aquifer.
- There are no mapped surface water bodies present at the site. The closest mapped surface water body, the New River, is approximately 4,000 feet from the site.
- Several releases of JP5 have occurred in different areas of the site over time, primarily from fuel pipelines and USTs at the site.
- Data from previous investigations indicate the site meets NCDENR criteria an Intermediate Risk classification and Industrial/Commercial land use.
- Previous investigations indicate petroleum impacts to vadose zone soils are very limited, and remediation of vadose zone soils is not indicated.
- Groundwater quality data from previous investigations indicate some dissolved-phase constituents are present above NCGWQSs only in shallow groundwater, and concentrations of these constituents are substantially below established GCLs; no constituents above NCGWQSs have been detected in groundwater samples collected from deep wells.
- The current program and previous investigations have identified measurable free product at various shallow wells across the site; free product has not been detected at deep wells.
- Gauging data for the current program indicate free product is present in the central portion of the site; the thickness and estimated lateral extent of free product appear to be decreasing over time.
- Numerous AFVR events conducted during the monitoring period have been successful at removing a large mass of petroleum product from the site; the apparent reduction in product thickness and estimated lateral extent of free product is considered to be a direct response to the removal of product via AFVR.

5.2 Recommendations

The following recommendations are made based on site data:

- Continue with a program of frequent well gauging and AFVR events to monitor and remove free product at the site.
- Proceed with recommendations from previous investigations to develop a unified remedial approach that addresses and consolidates all of the individual release events for the Rapid Refueler site.

SECTION 6 REFERENCES

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FIGURES



SCALE (Feet)
1000 0 1000 2000
(1:24000)

U.S.G.S TOPOGRAPHIC MAP:
JACKSONVILLE SOUTH, N.C.
1952
PHOTOINSPECTED 1988

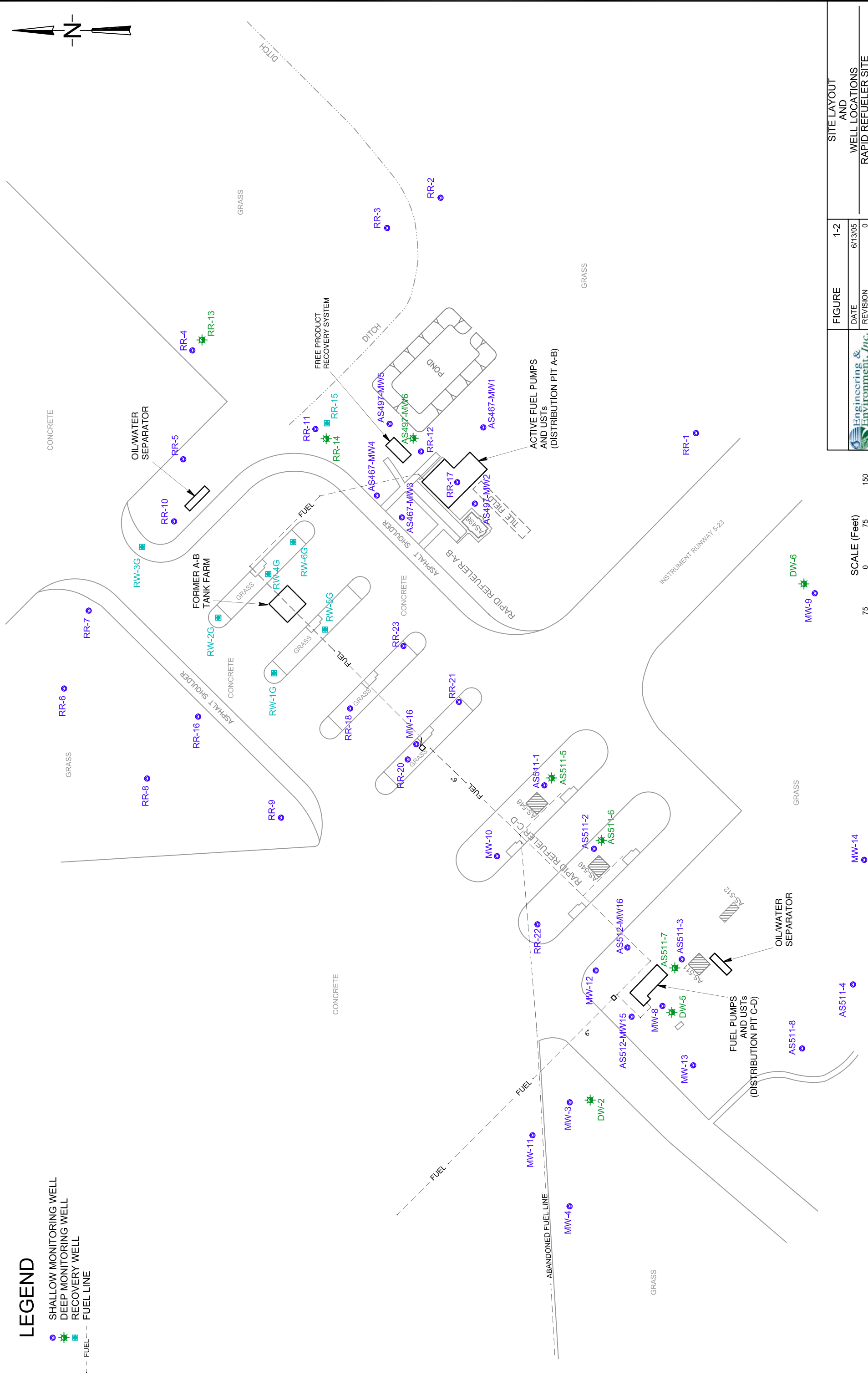


FIGURE	1-1
DATE	6/13/05
REVISION	0
DRAWN BY	WCM
FILE	RR_TOPO

SITE LOCATION

RAPID REFUELER SITE
ANNUAL MONITORING REPORT
MCAS NEW RIVER, NC

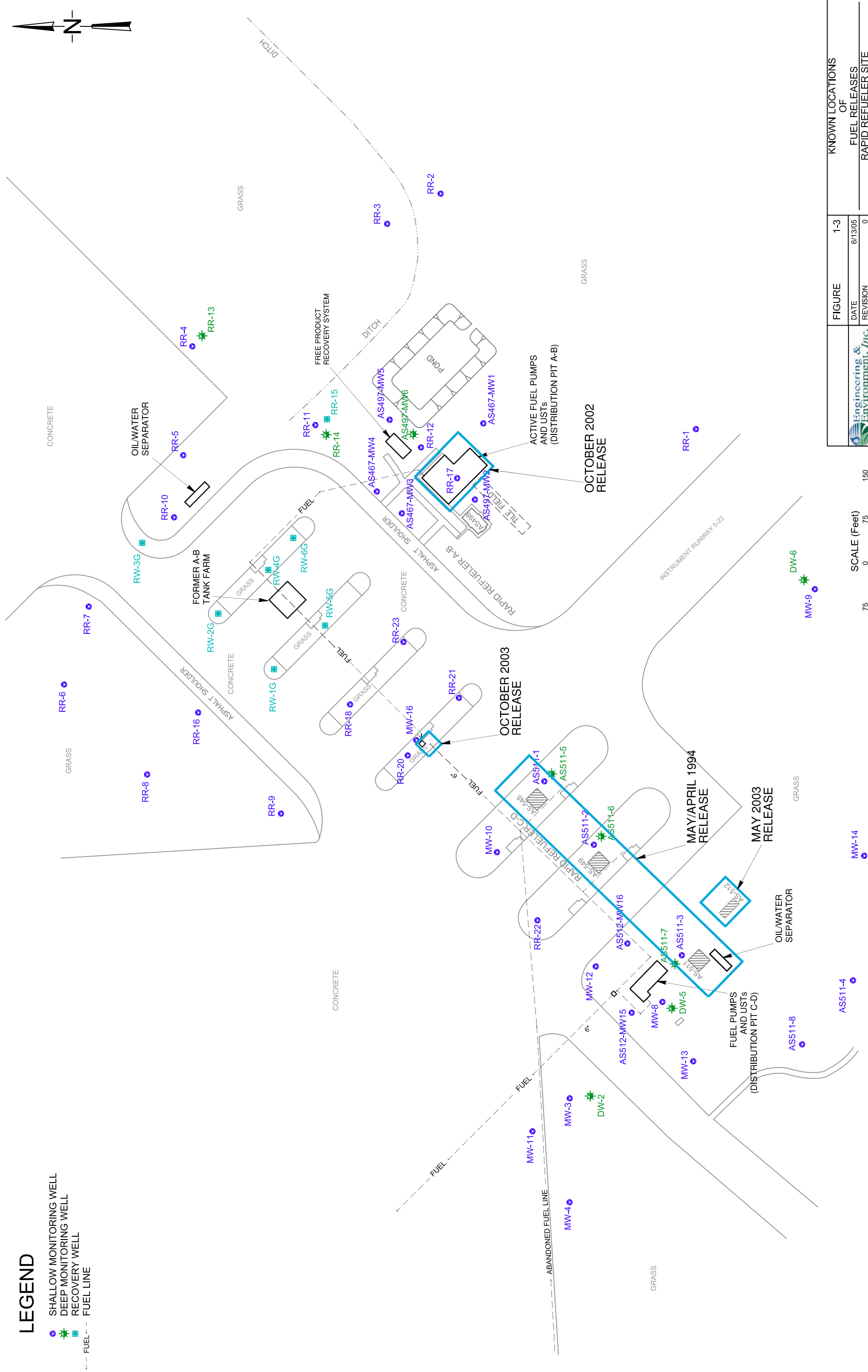
- SHALLOW MONITORING WELL
DEEP MONITORING WELL
RECOVERY WELL
FUEL LINE



(Base map adapted from Catlin, 2003b AND 2004; well MW-16 identified as RR-19 in Catlin, 2004; field identification tag is MW-16 and is used in this report)

	FIGURE 1-2	SITE LAYOUT AND WELL LOCATIONS
	DATE	6/13/05
	REVISION	0
	DRAWN BY	WCM
	FILE	RR_Base_Map
		RAPID REFUELER SITE ANNUAL MONITORING REPORT MCAS NEW RIVER, NC

- SHALLOW MONITORING WELL
DEEP MONITORING WELL
RECOVERY WELL
FUEL LINE



(Base map adapted from Catlin, 2003b AND 2004; well MW-16 identified as RR-19 in Catlin, 2004; field identification tag is MW-16 and is used in this report)

	FIGURE 1-3	KNOWN LOCATIONS
	DATE	6/13/05
	REVISION	0
	DRAWN BY	WCM
	FILE	RR_Base_Map
		FUEL RELEASES RAPID REFUELER SITE ANNUAL MONITORING REPORT MCAS NEW RIVER, NC

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- RECOVERY WELL
- FUEL LINE
- SURFICIAL AQUIFER SHALLOW WELL GROUNDWATER ELEVATION
- SURFICIAL AQUIFER SHALLOW WELL GROUNDWATER ELEVATION CONTOUR (HACHURES POINT IN DIRECTION OF GROUNDWATER FLOW)
- (GROUNDWATER ELEVATIONS EXPRESSED IN FEET ABOVE/BELOW MEAN SEA LEVEL AND CORRECTED FOR PRODUCT THICKNESS AS NEEDED)

-- FUEL --
14.53
15

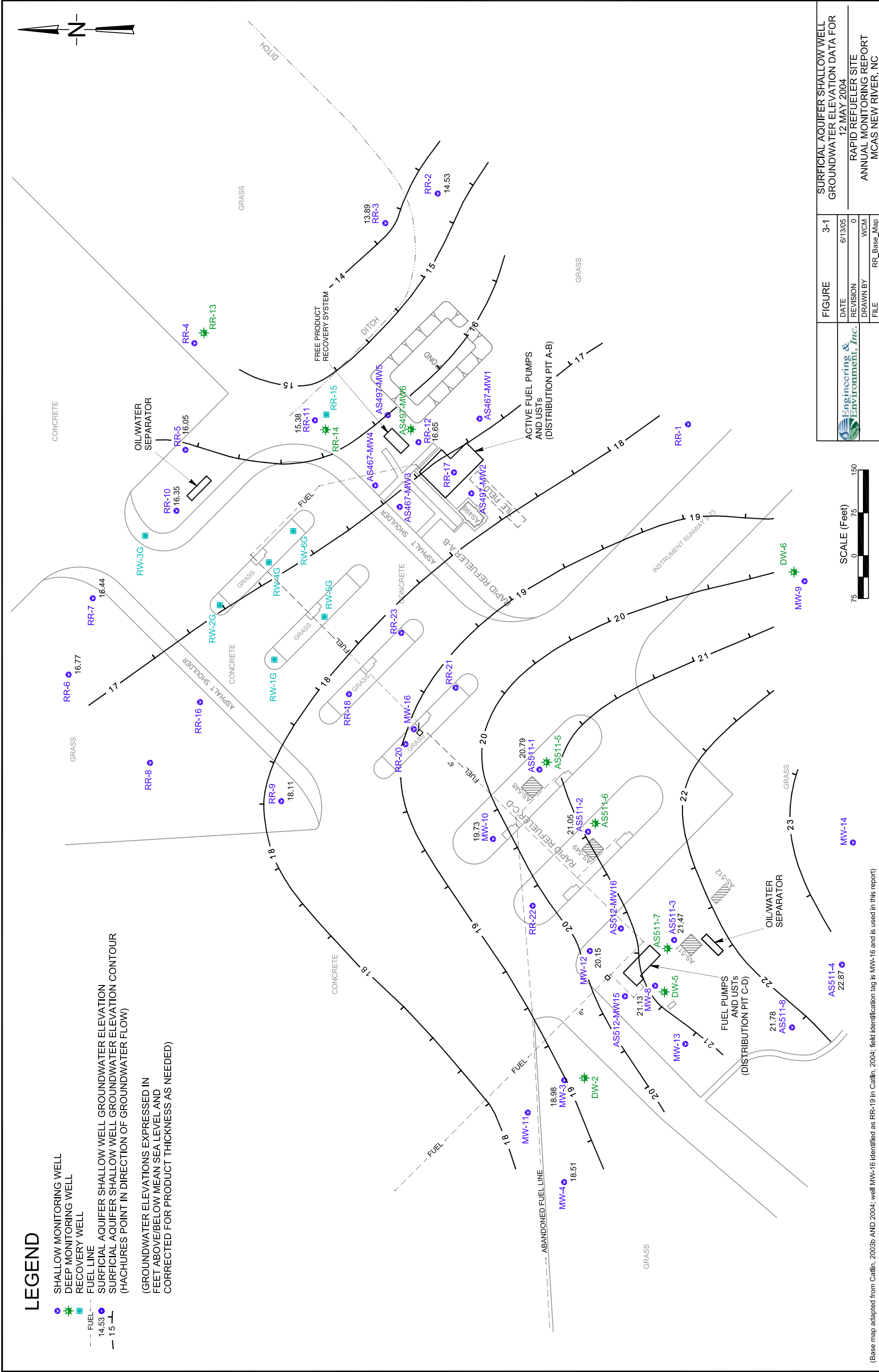


	FIGURE	3-1	SURFICIAL AQUIFER SHALLOW WELL GROUNDWATER ELEVATION DATA FOR	
	DATE	6/13/05	12 MAY 2004	
	REVISION	0	RAPID REFUELER SITE	
	DRAWN BY	WCM	ANNUAL MONITORING REPORT	
	FILE	RR_Base_Map	MCAS NEW RIVER, NC	

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- RECOVERY WELL
- FUEL LINE
- SURFICIAL AQUIFER DEEP WELL GROUNDWATER ELEVATION CONTOUR
- SURFICIAL AQUIFER DDEP WELL GROUNDWATER ELEVATION CONTOUR (HACHURES POINT IN DIRECTION OF GROUNDWATER FLOW)
- (GROUNDWATER ELEVATIONS EXPRESSED IN FEET ABOVE/BELOW MEAN SEA LEVEL AND CORRECTED FOR PRODUCT THICKNESS AS NEEDED)

--- FUEL ---
14.53
15

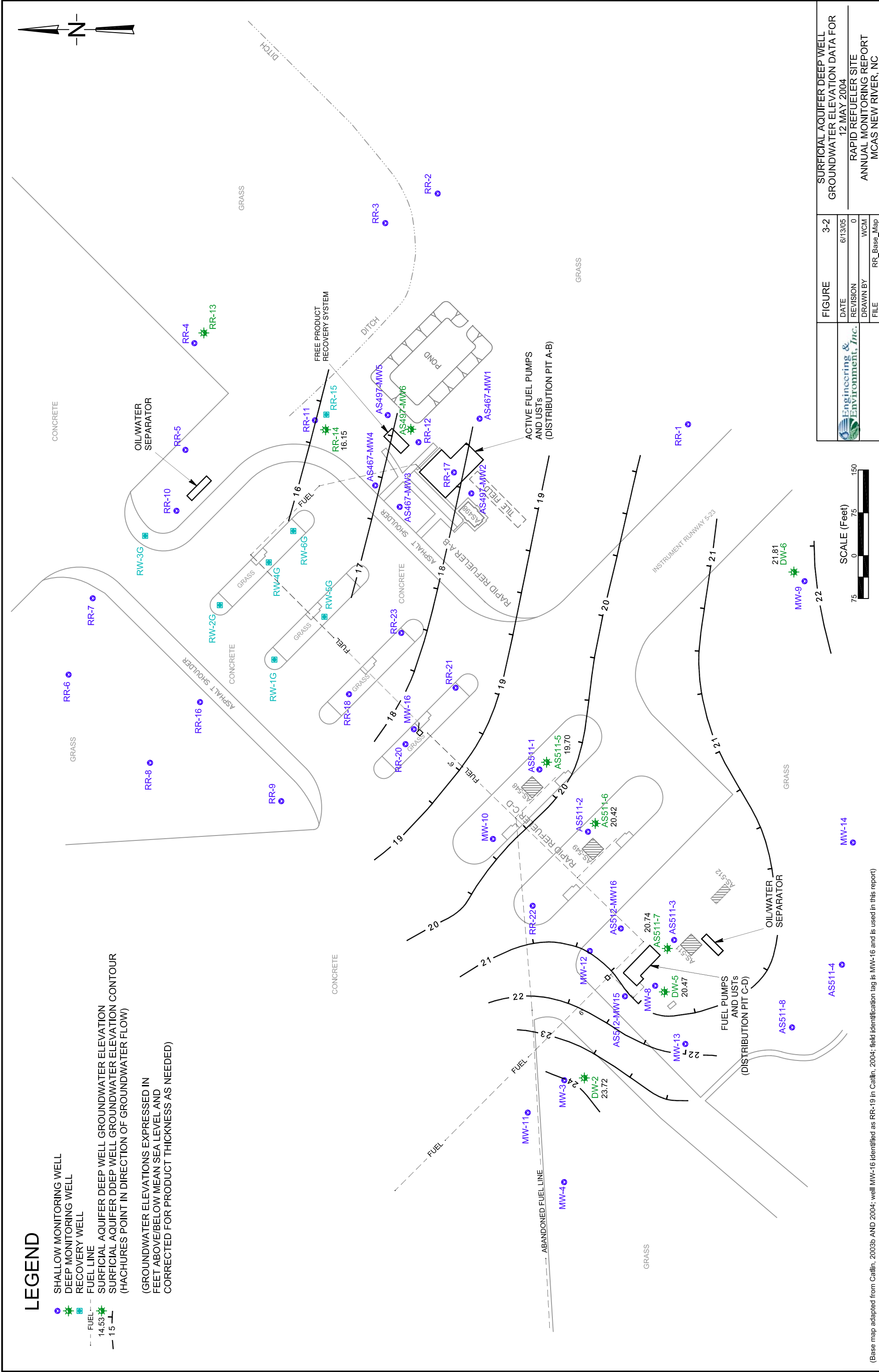


	FIGURE	3-2	SURFICIAL AQUIFER DEEP WELL GROUNDWATER ELEVATION DATA FOR
	DATE	6/13/05	12 MAY 2004
	REVISION	0	RAPID REFUELER SITE
	DRAWN BY	WCM	ANNUAL MONITORING REPORT
	FILE	RR_Base_Map	MCAS NEW RIVER, NC



LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- RECOVERY WELL
- FUEL LINE
- 14.53
- 15
- (GROUNDWATER ELEVATIONS EXPRESSED IN FEET ABOVE/BELOW MEAN SEA LEVEL AND CORRECTED FOR PRODUCT THICKNESS AS NEEDED)

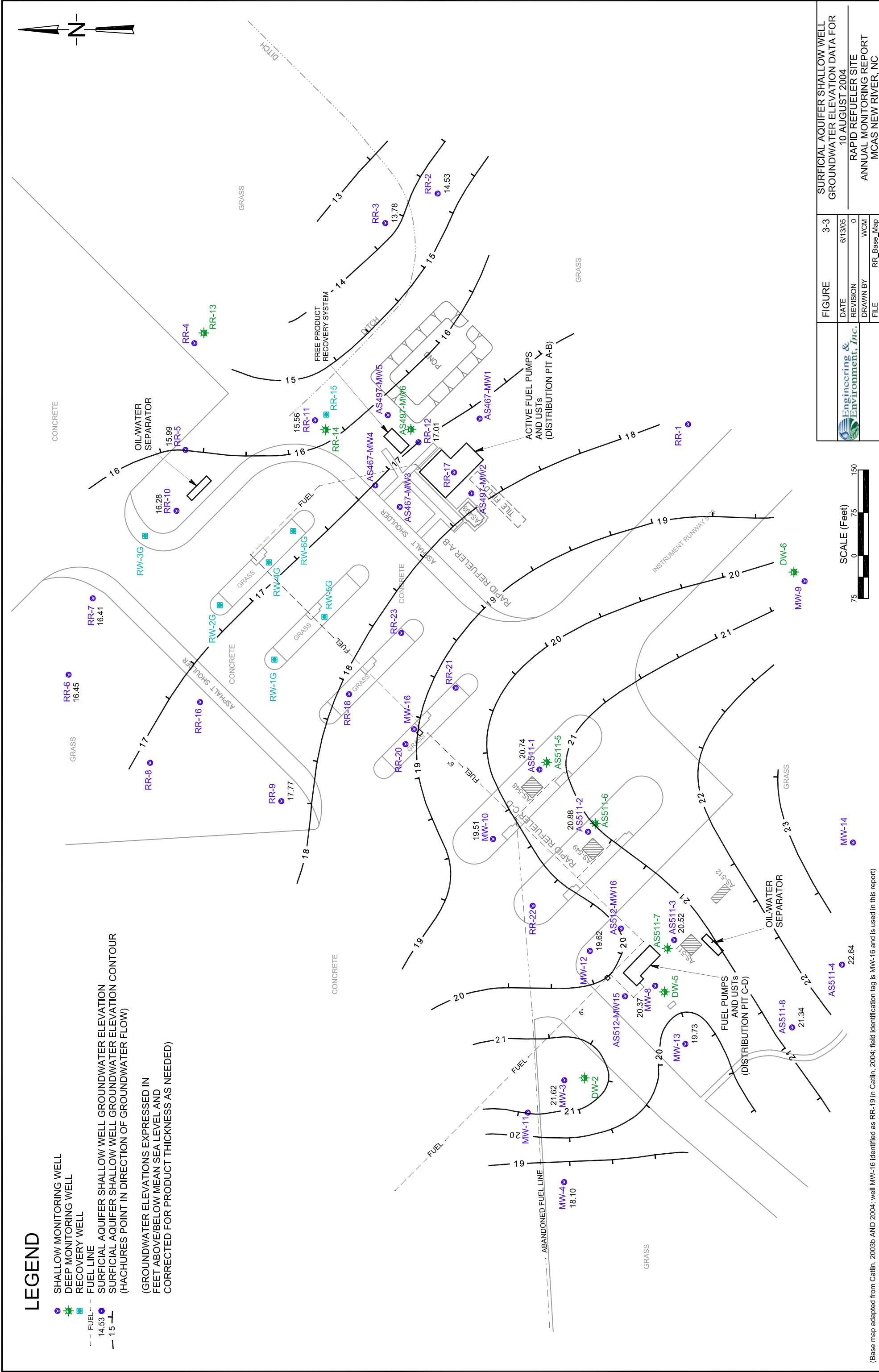


	FIGURE	3-3	SURFICIAL AQUIFER SHALLOW WELL GROUNDWATER ELEVATION DATA FOR	
	DATE	6/13/05	10 AUGUST 2004	
	REVISION	0	RAPID REFUELER SITE	
	DRAWN BY	WCM	ANNUAL MONITORING REPORT	
		FILE	RR_Base_Map	MCAS NEW RIVER, NC



LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- RECOVERY WELL
- FUEL LINE
- SURFICIAL AQUIFER DEEP WELL GROUNDWATER ELEVATION CONTOUR
- SURFICIAL AQUIFER DDEP WELL GROUNDWATER ELEVATION CONTOUR (HACHURES POINT IN DIRECTION OF GROUNDWATER FLOW)
- (GROUNDWATER ELEVATIONS EXPRESSED IN FEET ABOVE/BELOW MEAN SEA LEVEL AND CORRECTED FOR PRODUCT THICKNESS AS NEEDED)

-- FUEL --
14.53
-- 15 --

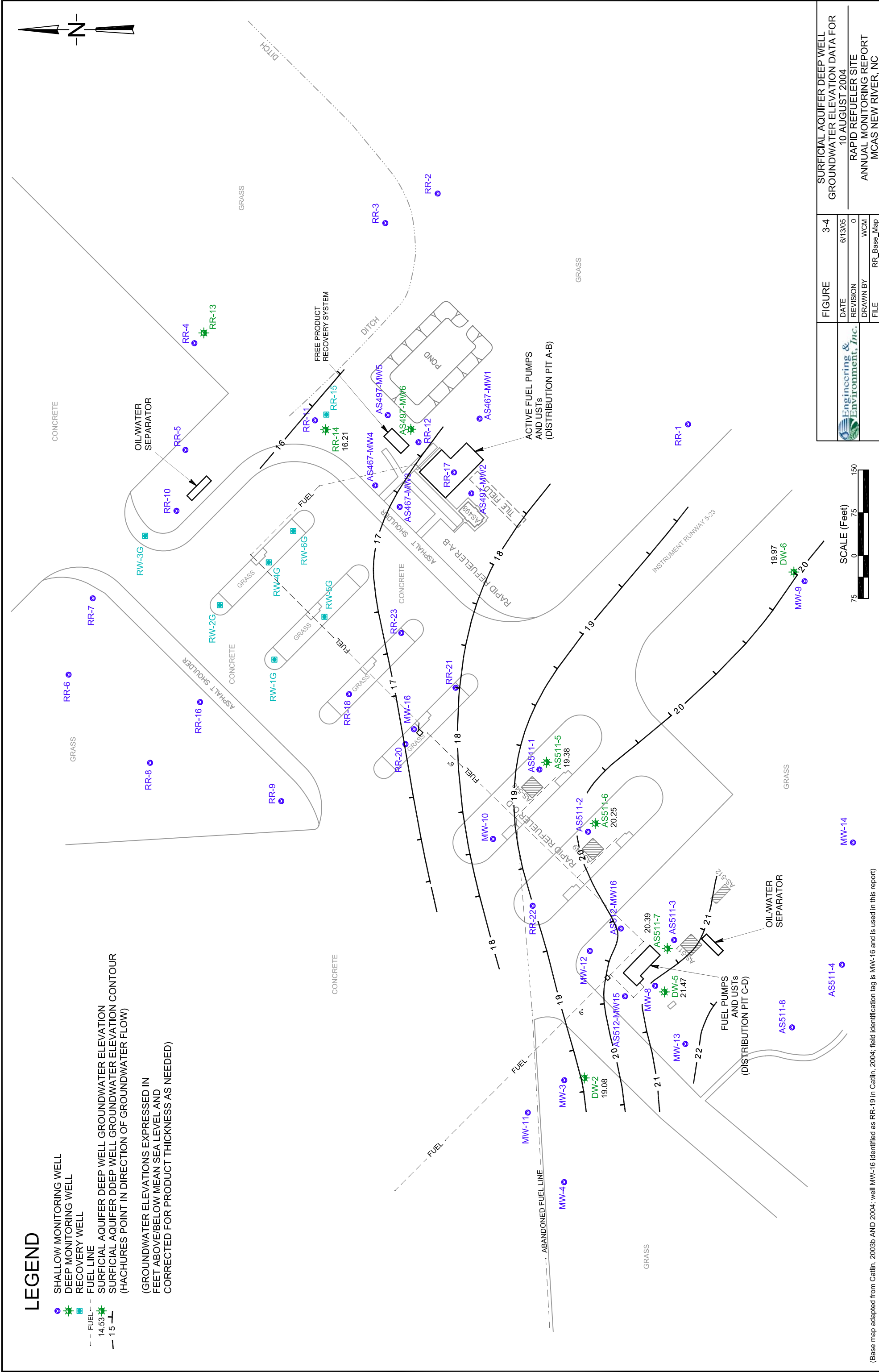


	FIGURE	3-4	SURFICIAL AQUIFER DEEP WELL GROUNDWATER ELEVATION DATA FOR
	DATE	6/13/05	10 AUGUST 2004
	REVISION	0	RAPID REFUELER SITE
	DRAWN BY	WCM	ANNUAL MONITORING REPORT
	FILE	RR_Base_Map	MCAS NEW RIVER, NC

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- RECOVERY WELL
- FUEL LINE
- 14.53
- 15
- (GROUNDWATER ELEVATIONS EXPRESSED IN FEET ABOVE/BELOW MEAN SEA LEVEL AND CORRECTED FOR PRODUCT THICKNESS AS NEEDED)

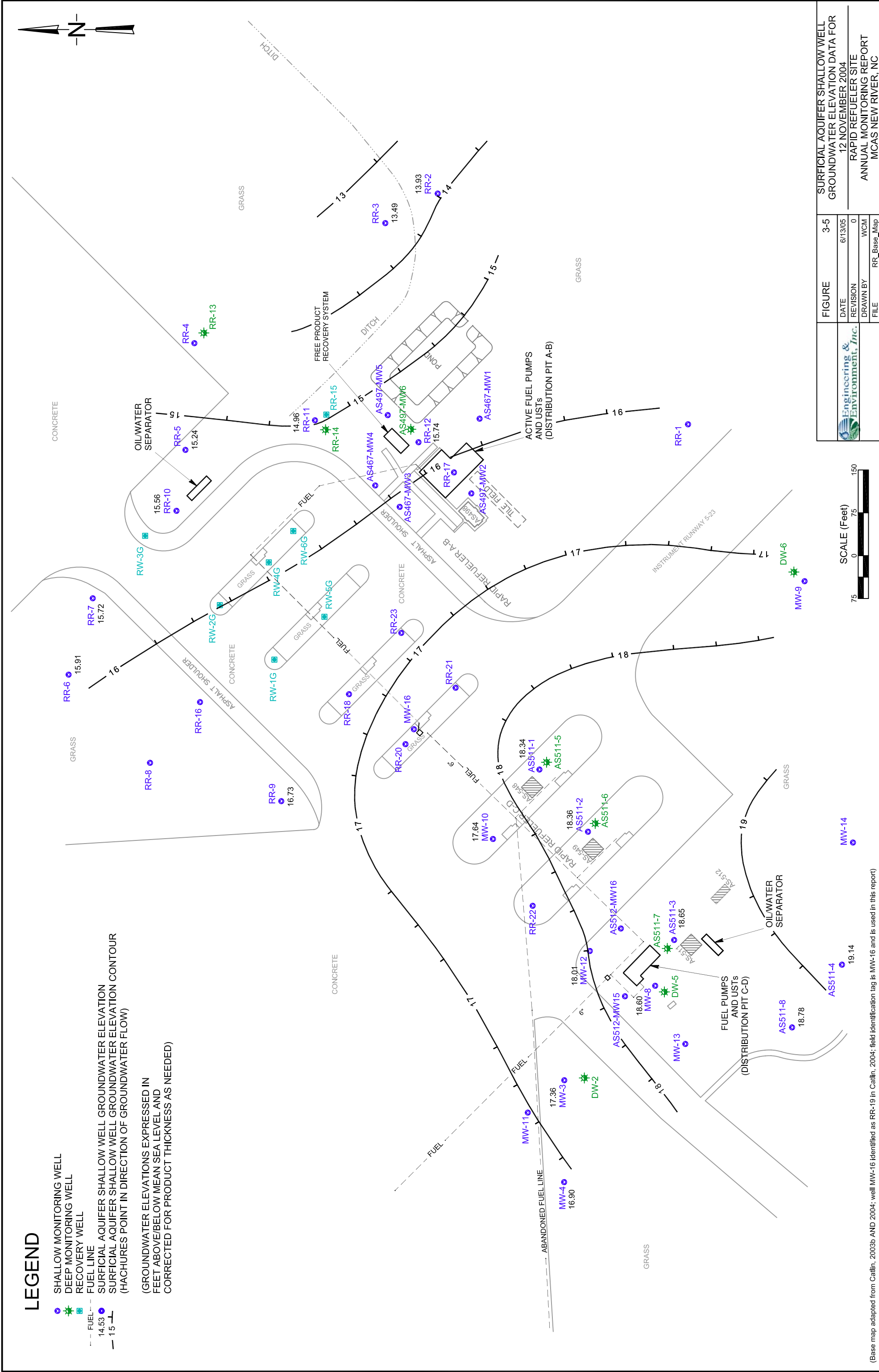


	FIGURE	3-5	SURFICIAL AQUIFER SHALLOW WELL	
	DATE	6/13/05	GROUNDWATER ELEVATION DATA FOR	
	REVISION	0	12 NOVEMBER 2004	
	DRAWN BY	WCM	RAPID REFUELER SITE	
		FILE	RR_Base_Map	ANNUAL MONITORING REPORT
				MCAS NEW RIVER, NC



LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- RECOVERY WELL
- FUEL LINE
- SURFICIAL AQUIFER DEEP WELL GROUNDWATER ELEVATION CONTOUR
- SURFICIAL AQUIFER DDEP WELL GROUNDWATER ELEVATION CONTOUR (HACHURES POINT IN DIRECTION OF GROUNDWATER FLOW)
- (GROUNDWATER ELEVATIONS EXPRESSED IN FEET ABOVE/BELOW MEAN SEA LEVEL AND CORRECTED FOR PRODUCT THICKNESS AS NEEDED)

--- FUEL ---
14.53
15

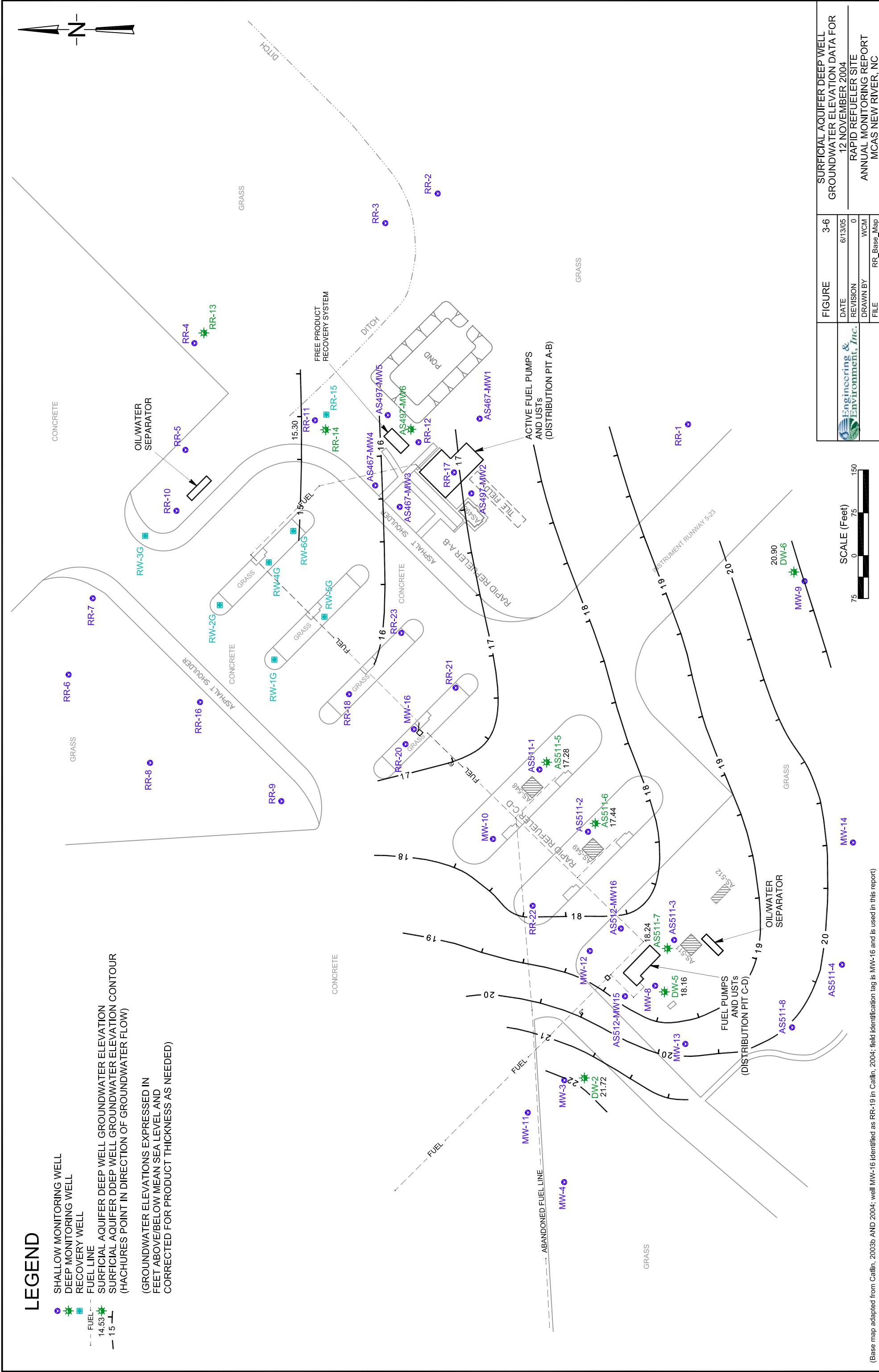
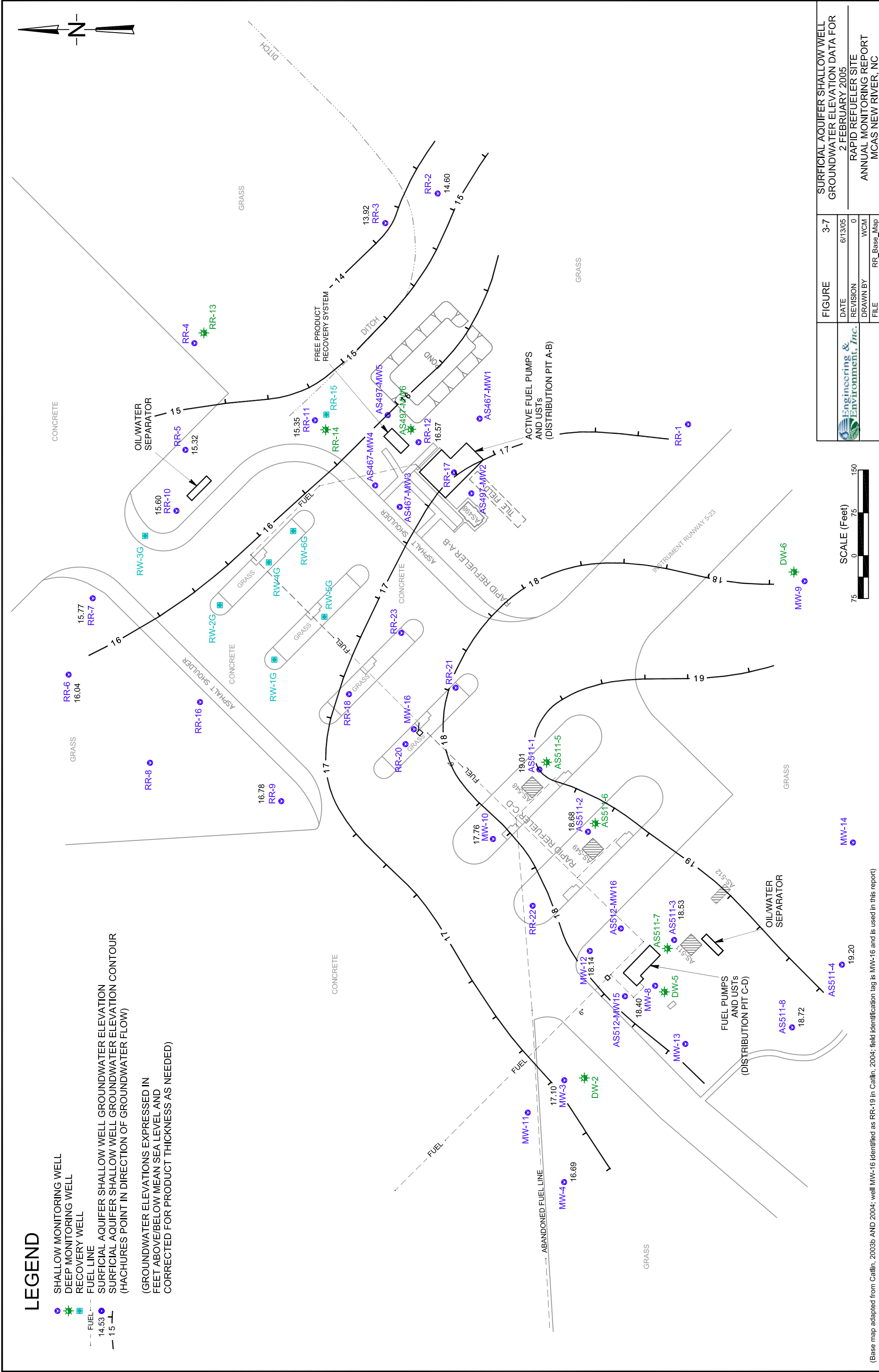


	FIGURE	3-6	SURFICIAL AQUIFER DEEP WELL GROUNDWATER ELEVATION DATA FOR
	DATE	6/13/05	12 NOVEMBER 2004
	REVISION	0	RAPID REFUELER SITE
	DRAWN BY	WCM	ANNUAL MONITORING REPORT
	FILE	RR_Base_Map	MCAS NEW RIVER, NC

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- RECOVERY WELL
- FUEL LINE
- SURFICIAL AQUIFER SHALLOW WELL GROUNDWATER ELEVATION
- SURFICIAL AQUIFER SHALLOW WELL GROUNDWATER ELEVATION CONTOUR (HACHURES POINT IN DIRECTION OF GROUNDWATER FLOW)
- (GROUNDWATER ELEVATIONS EXPRESSED IN FEET ABOVE/BELOW MEAN SEA LEVEL AND CORRECTED FOR PRODUCT THICKNESS AS NEEDED)

-- FUEL --
14.53
-- 15 --



-



	FIGURE	3-8	SURFICIAL AQUIFER DEEPWELL GROUNDWATER ELEVATION DATA FOR 2 FEBRUARY 2005 RAPID REFUELER SITE ANNUAL MONITORING REPORT MCAS NEW RIVER, NC
	DATE	6/13/05	
	REVISION	0	
	DRAWN BY	WCM	
	FILE	RR_Base Map	

Wells RR-11, RR-14, and RR-15 Hydrographs Rapid Refueler Site

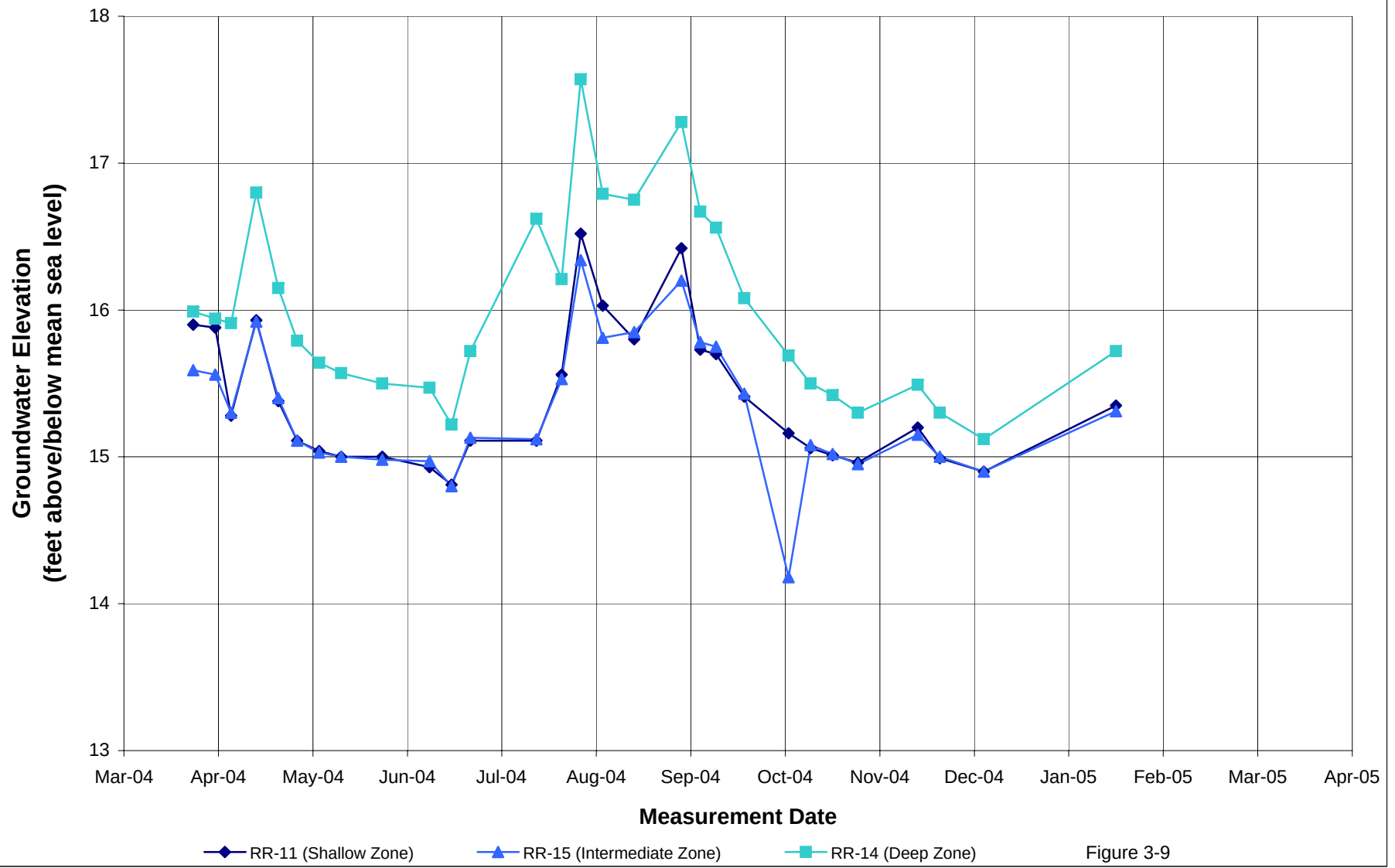


Figure 3-9

Wells AS511-1 and AS511-5 Hydrographs Rapid Refueler Site

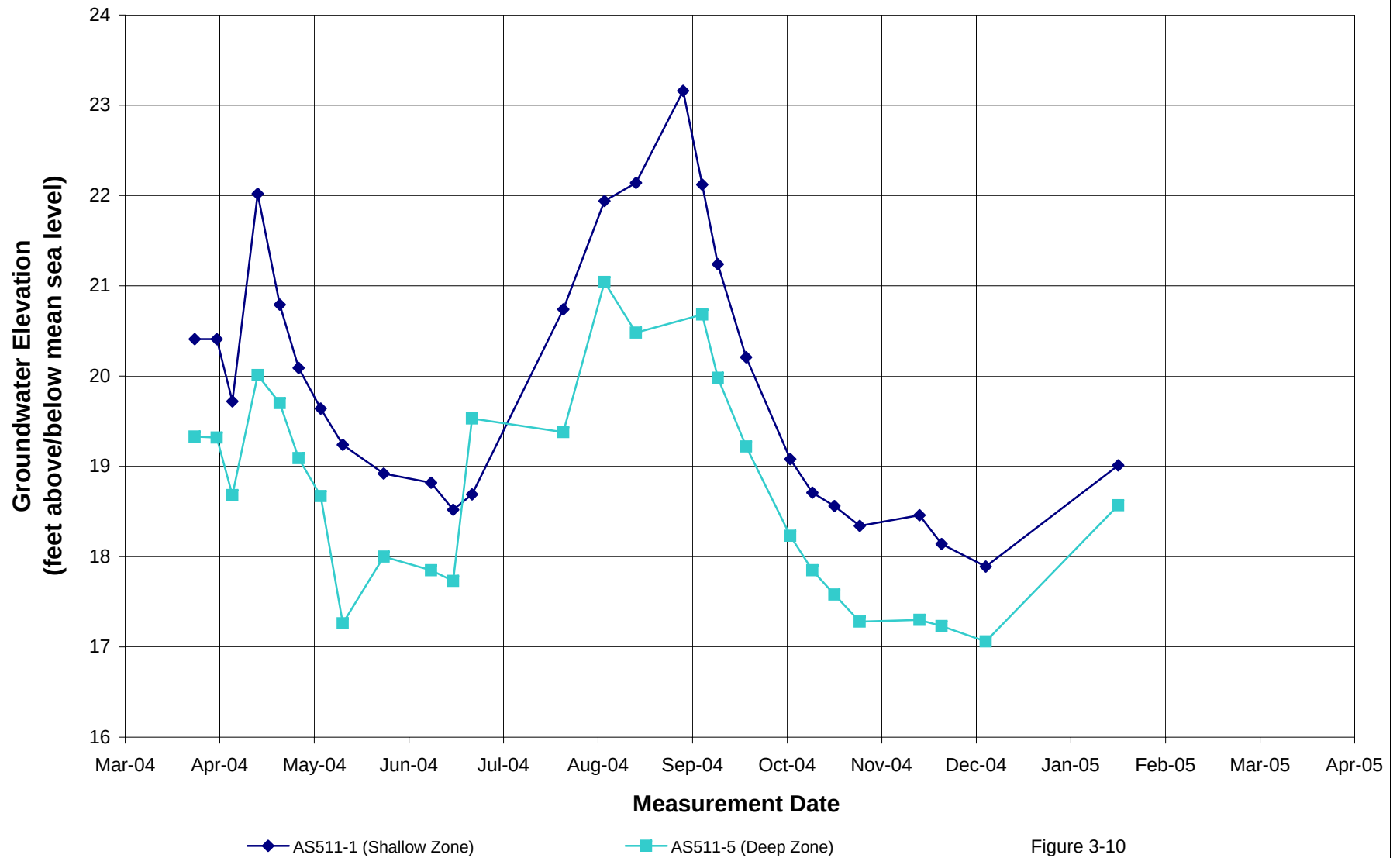


Figure 3-10

Wells AS511-2 and AS511-6 Hydrographs Rapid Refueler Site

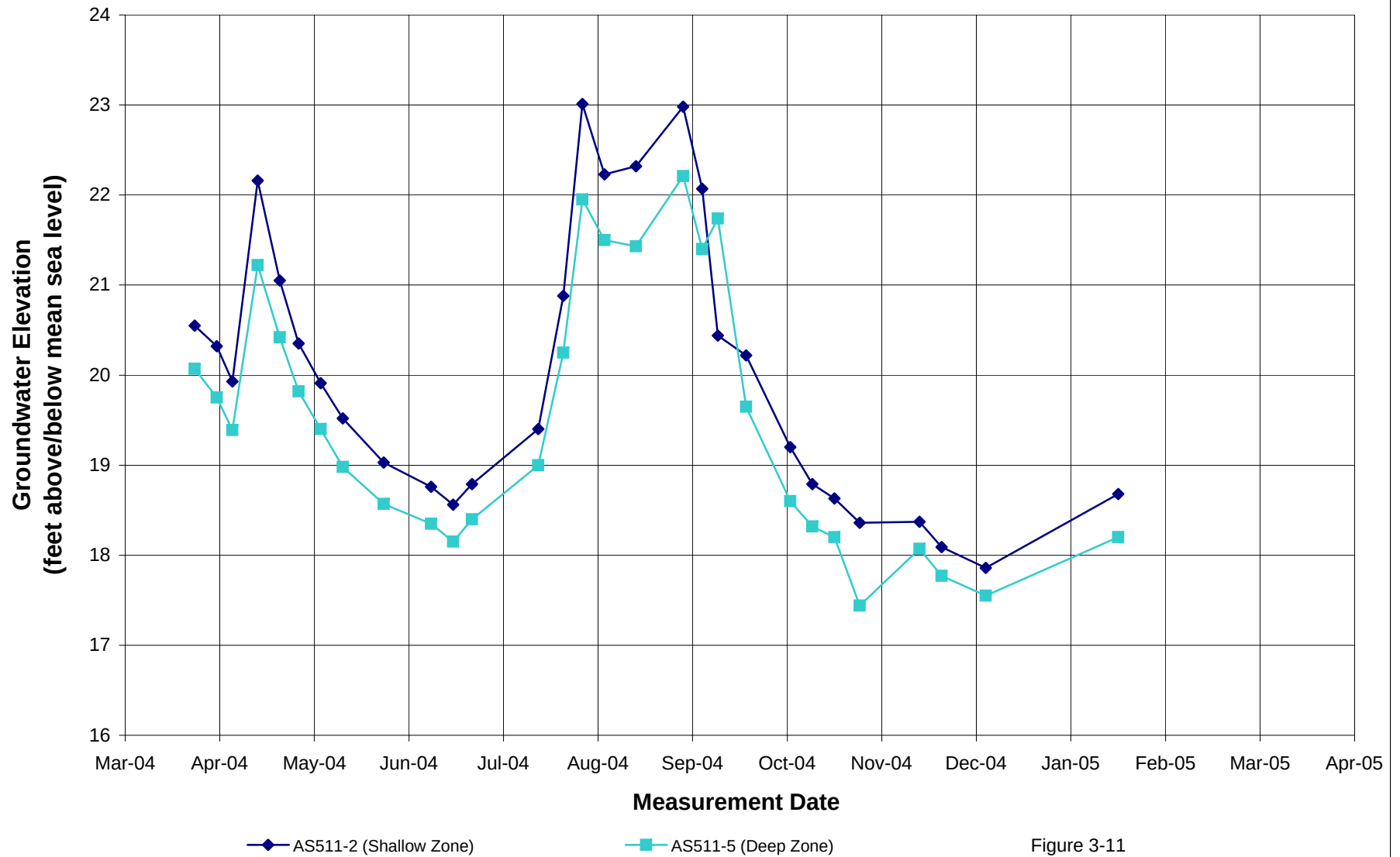


Figure 3-11

Wells AS511-3 and AS511-7 Hydrographs Rapid Refuler Site

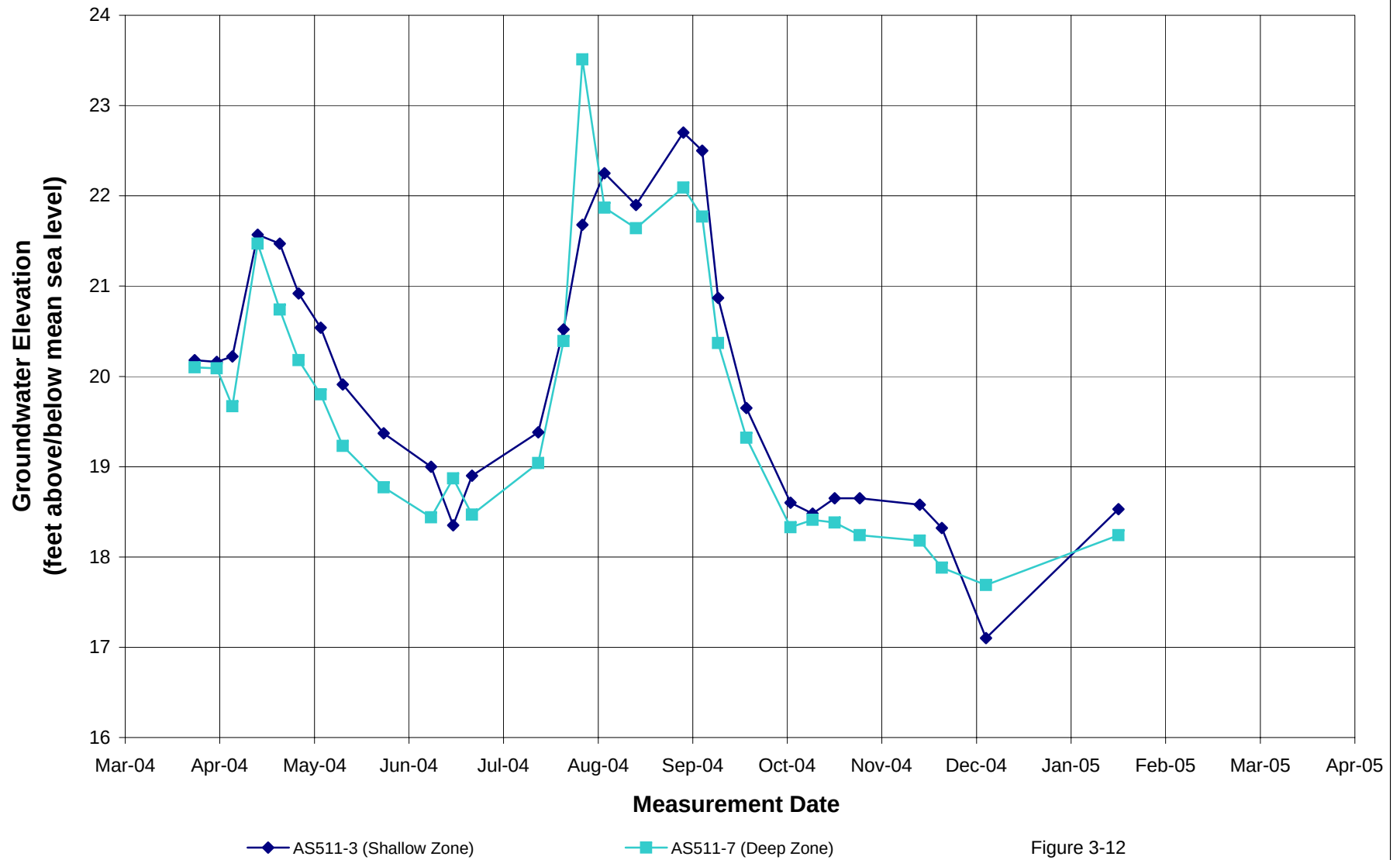


Figure 3-12

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- RECOVERY WELL
- FUEL LINE
- SURFICIAL AQUIFER SHALLOW WELL FREE PRODUCT THICKNESS
- ESTIMATED EXTENT OF FREE PRODUCT
- (THICKNESS EXPRESSED IN FEET)
- (NP: MEASURABLE FREE PRODUCT NOT PRESENT)

-- FUEL --
1.45

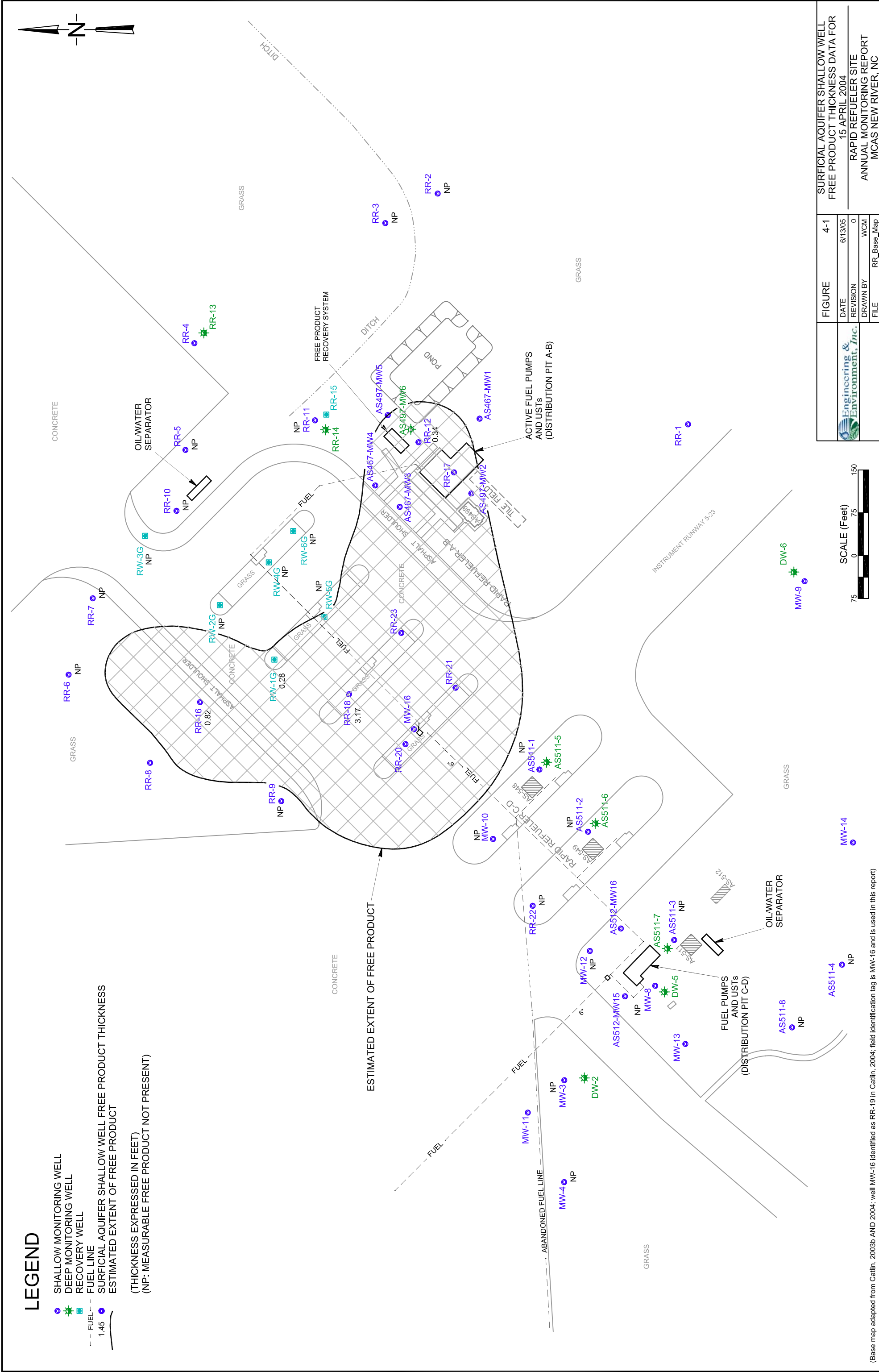


	FIGURE	4-1	SURFICIAL AQUIFER SHALLOW WELL FREE PRODUCT THICKNESS DATA FOR 15 APRIL 2004		
	DATE	6/13/05	RAPID REFUELER SITE ANNUAL MONITORING REPORT MCAS NEW RIVER, NC		
	REVISION	0			
	DRAWN BY	WCM			
	FILE	RR_Base_Map			



- 



LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- RECOVERY WELL
- FUEL LINE
- SURFICIAL AQUIFER SHALLOW WELL FREE PRODUCT THICKNESS
- ESTIMATED EXTENT OF FREE PRODUCT
- (THICKNESS EXPRESSED IN FEET)
- (NP: MEASURABLE FREE PRODUCT NOT PRESENT)

-- FUEL --
1.45

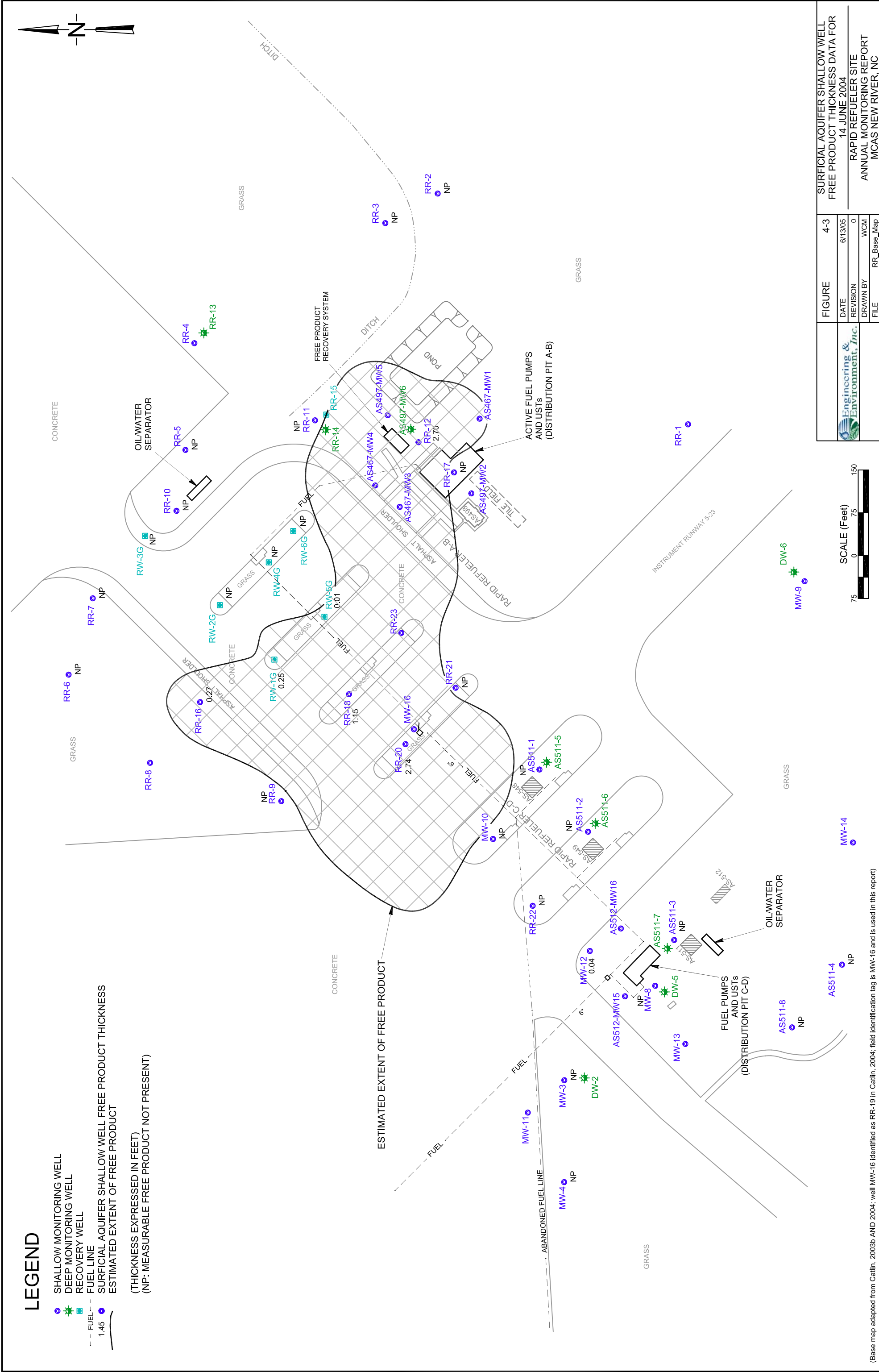


	FIGURE	4-3	SURFICIAL AQUIFER SHALLOW WELL FREE PRODUCT THICKNESS DATA FOR		
	DATE	6/13/05	RAPID REFUELER SITE ANNUAL MONITORING REPORT MCAS NEW RIVER, NC		
	REVISION	0			
	DRAWN BY	WCM			
	FILE	RR_Base_Map			



LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- RECOVERY WELL
- FUEL LINE
- SURFICIAL AQUIFER SHALLOW WELL FREE PRODUCT THICKNESS
- ESTIMATED EXTENT OF FREE PRODUCT
- (THICKNESS EXPRESSED IN FEET)
- (NP: MEASURABLE FREE PRODUCT NOT PRESENT)

-- FUEL --
1.45

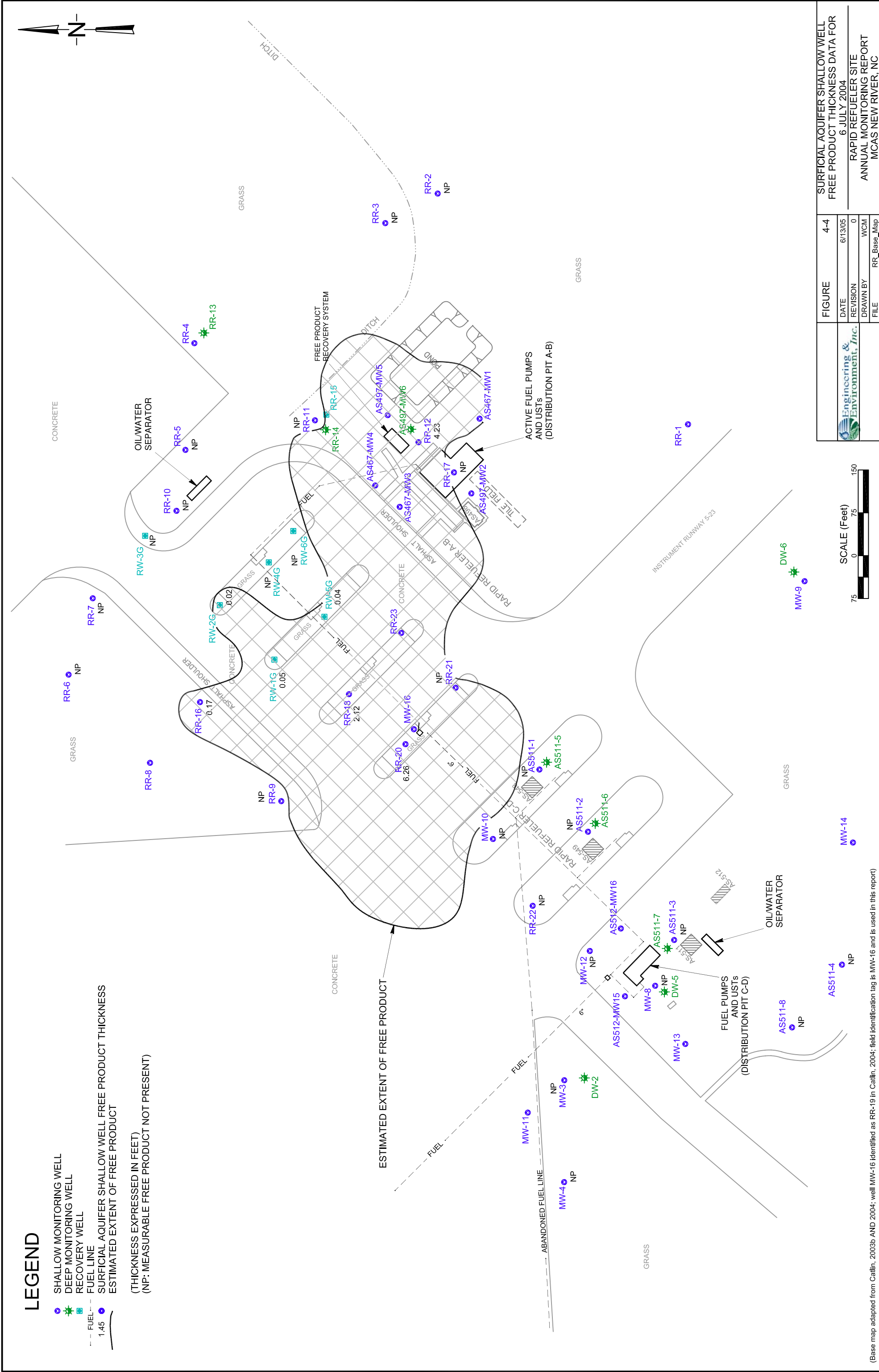


	FIGURE	4-4	SURFICIAL AQUIFER SHALLOW WELL FREE PRODUCT THICKNESS DATA FOR	
	DATE	6/13/05	6 JULY 2004	
	REVISION	0	RAPID REFUELER SITE	
	DRAWN BY	WCM	ANNUAL MONITORING REPORT	
		FILE	RR_Base_Map	MCAS NEW RIVER, NC



LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- RECOVERY WELL
- FUEL LINE
- SURFICIAL AQUIFER SHALLOW WELL FREE PRODUCT THICKNESS
- ESTIMATED EXTENT OF FREE PRODUCT
- (THICKNESS EXPRESSED IN FEET)
- (NP: MEASURABLE FREE PRODUCT NOT PRESENT)

-- FUEL --
1.45

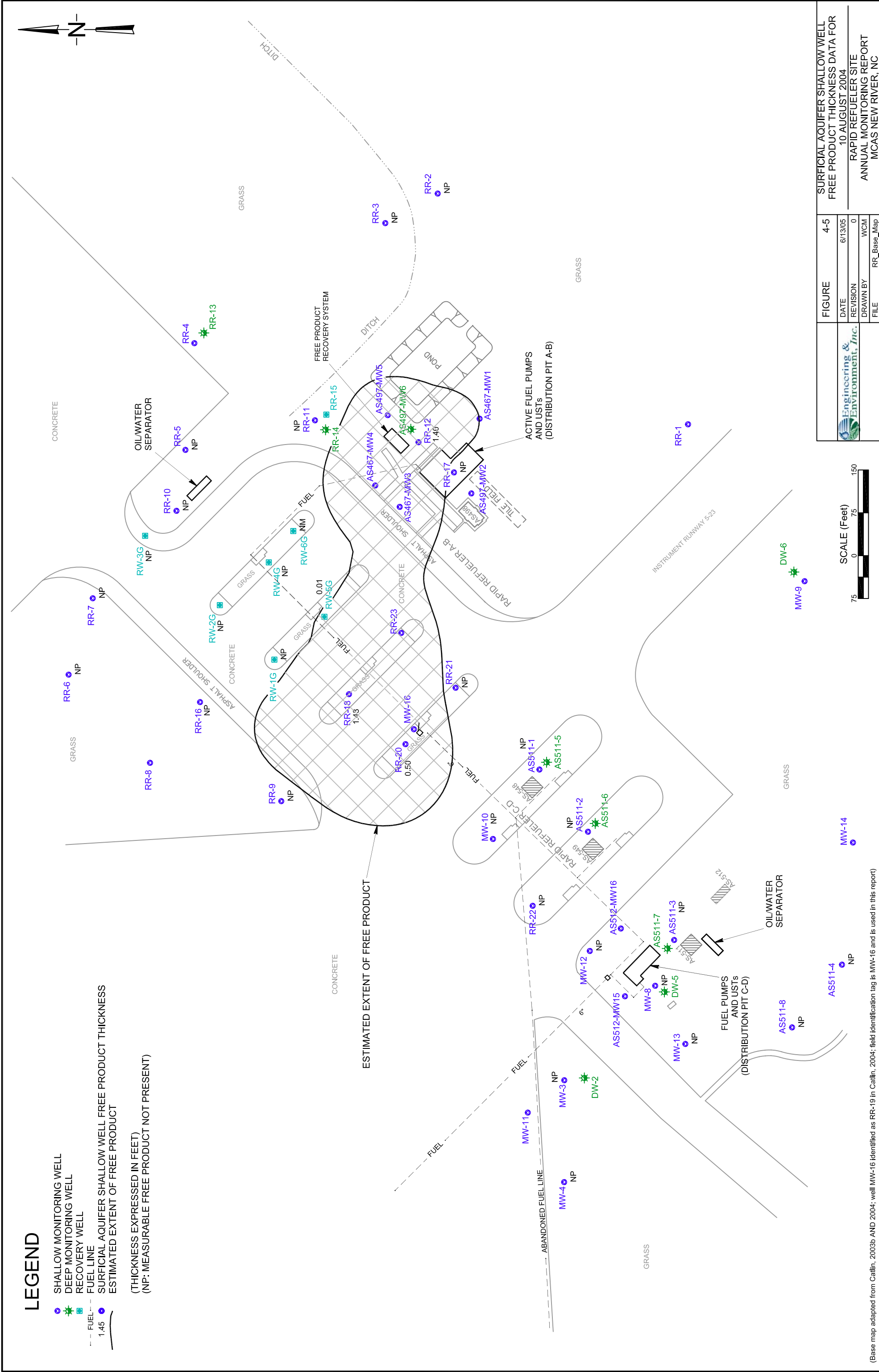


	FIGURE	4-5	SURFICIAL AQUIFER SHALLOW WELL FREE PRODUCT THICKNESS DATA FOR		
	DATE	6/13/05	10 AUGUST 2004		
	REVISION	0	RAPID REFUELER SITE		
	DRAWN BY	WCM	ANNUAL MONITORING REPORT		
	FILE	RR_Base_Map	MCAS NEW RIVER, NC		



LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- RECOVERY WELL
- FUEL LINE
- SURFICIAL AQUIFER SHALLOW WELL FREE PRODUCT THICKNESS
- ESTIMATED EXTENT OF FREE PRODUCT
- (THICKNESS EXPRESSED IN FEET)
- (NP: MEASURABLE FREE PRODUCT NOT PRESENT)

-- FUEL --
1.45

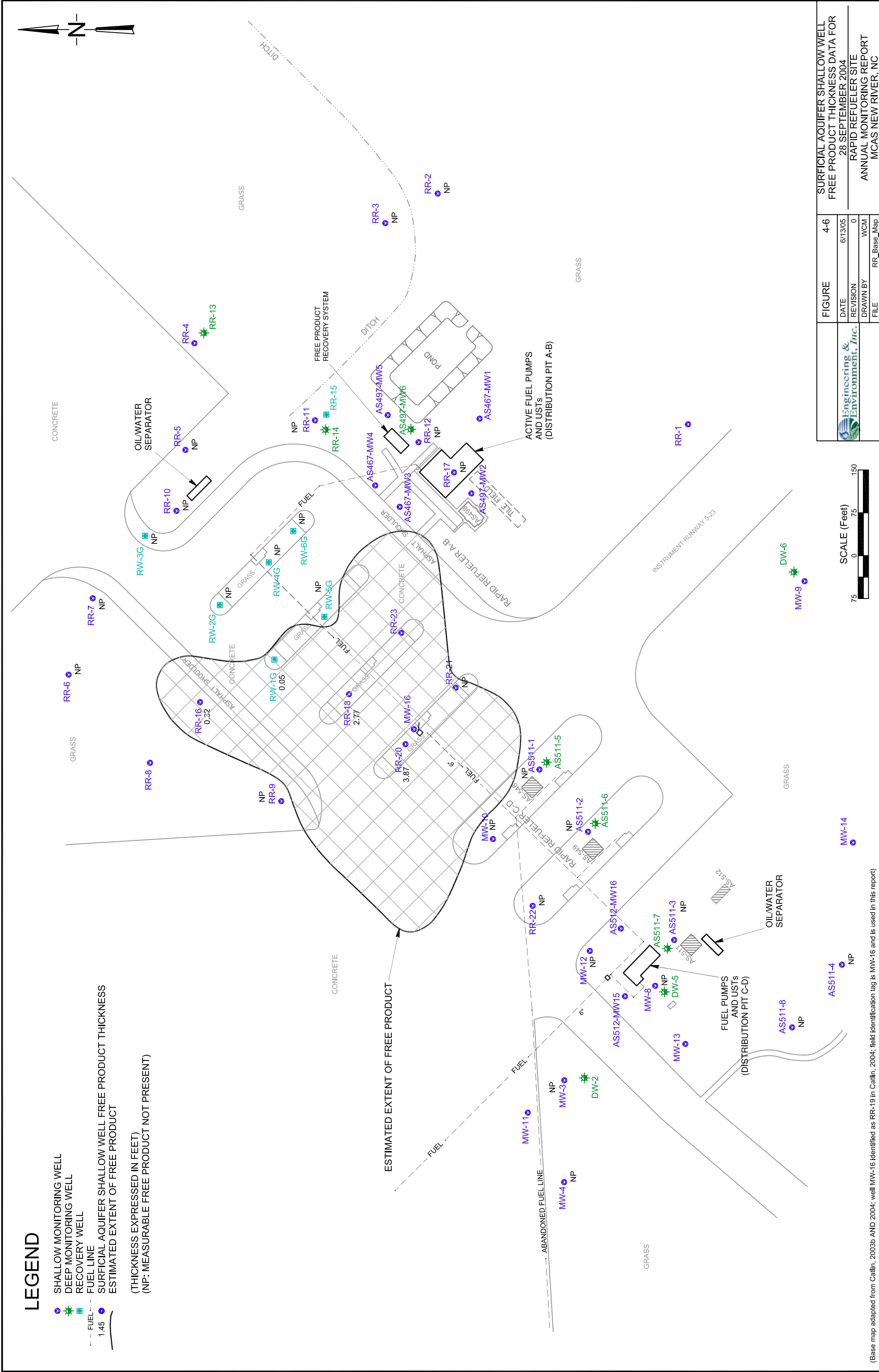


	FIGURE	4-6	SURFICIAL AQUIFER SHALLOW WELL FREE PRODUCT THICKNESS DATA FOR		
	DATE	6/13/05	28 SEPTEMBER 2004		
	REVISION	0	RAPID REFUELER SITE		
	DRAWN BY	WCM	ANNUAL MONITORING REPORT		
	FILE	RR_Base_Map	MCAS NEW RIVER, NC		



LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- RECOVERY WELL
- FUEL LINE
- SURFICIAL AQUIFER SHALLOW WELL FREE PRODUCT THICKNESS
- ESTIMATED EXTENT OF FREE PRODUCT
- (THICKNESS EXPRESSED IN FEET)
- (NP: MEASURABLE FREE PRODUCT NOT PRESENT)

-- FUEL --
1.45

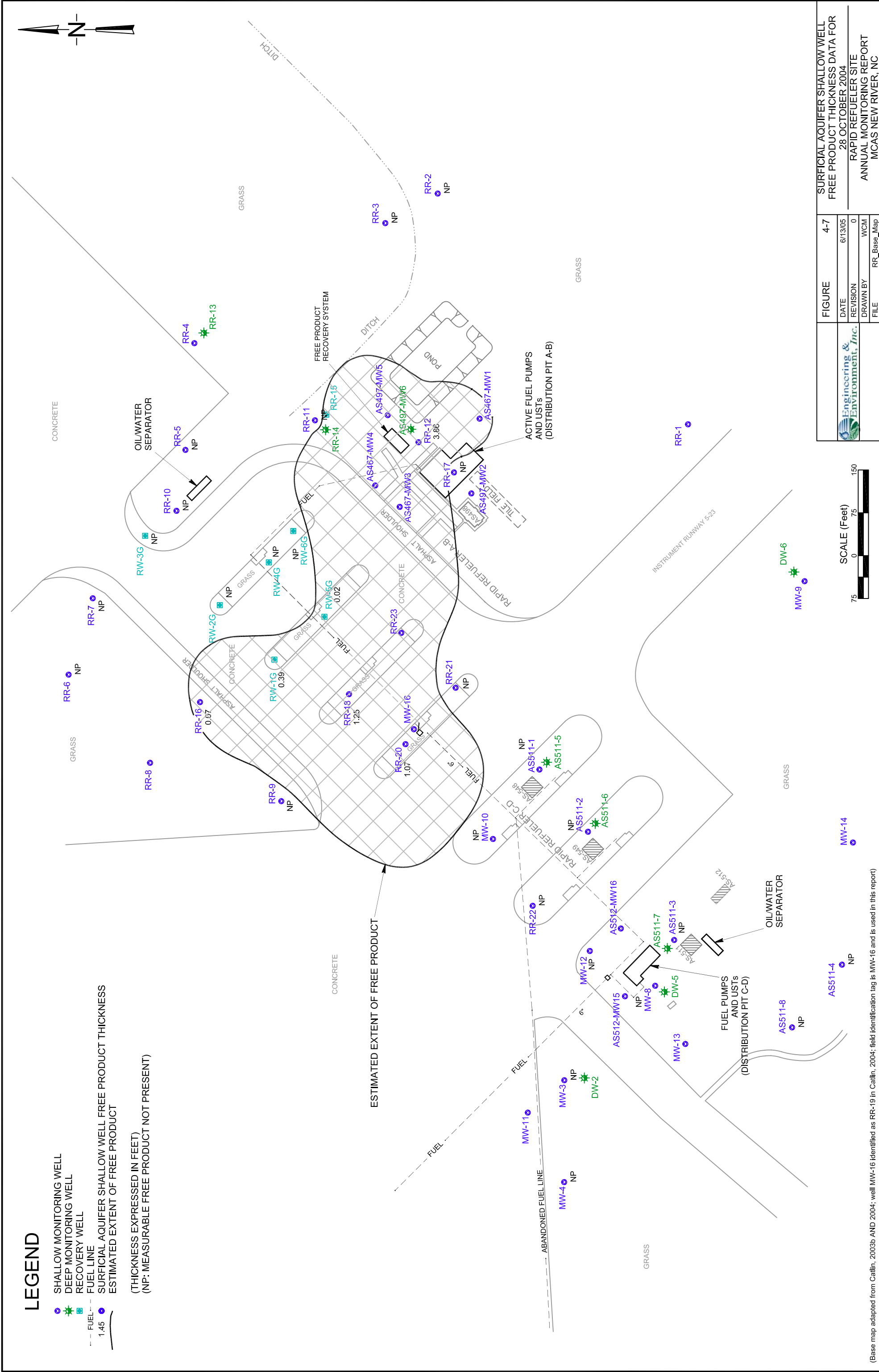


	FIGURE	4-7	SURFICIAL AQUIFER SHALLOW WELL FREE PRODUCT THICKNESS DATA FOR	
	DATE	6/13/05	28 OCTOBER 2004	
	REVISION	0	RAPID REFUELER SITE	
	DRAWN BY	WCM	ANNUAL MONITORING REPORT	
		FILE	RR_Base_Map	MCAS NEW RIVER, NC



LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- RECOVERY WELL
- FUEL LINE
- SURFICIAL AQUIFER SHALLOW WELL FREE PRODUCT THICKNESS
- ESTIMATED EXTENT OF FREE PRODUCT
- (THICKNESS EXPRESSED IN FEET)
- (NP: MEASURABLE FREE PRODUCT NOT PRESENT)

-- FUEL --
1.45

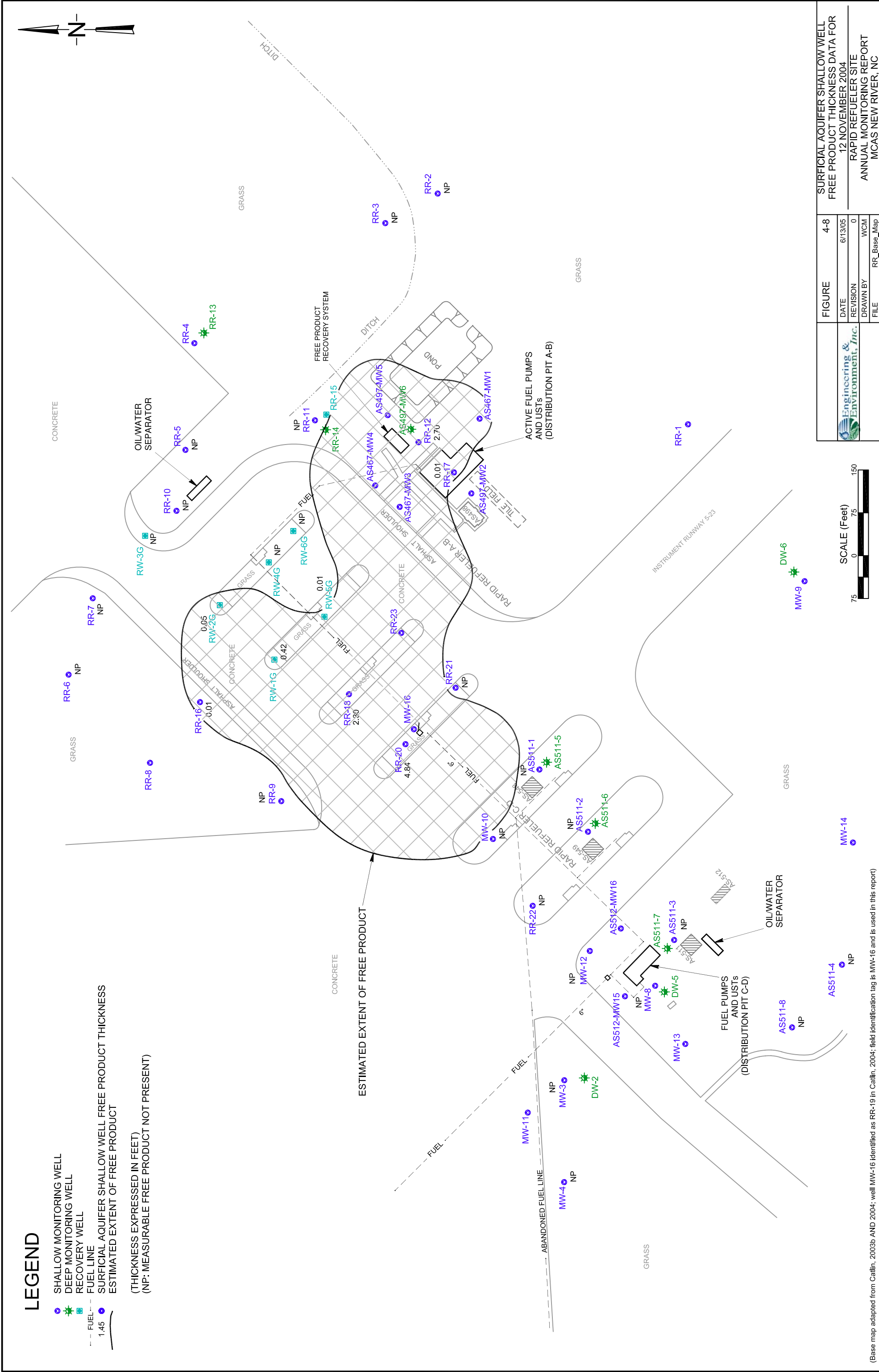


	FIGURE	4-8	SURFICIAL AQUIFER SHALLOW WELL FREE PRODUCT THICKNESS DATA FOR	
	DATE	6/13/05	12 NOVEMBER 2004	
	REVISION	0	RAPID REFUELER SITE	
	DRAWN BY	WCM	ANNUAL MONITORING REPORT	
	FILE	RR_Base_Map	MCAS NEW RIVER, NC	

- CONCRETE



	FIGURE	4-9	SURFICIAL AQUIFER SHALLOW WELL FREE PRODUCT THICKNESS DATA FOR 8 DECEMBER 2004 RAPID REFUELER SITE ANNUAL MONITORING REPORT MCAS NEW RIVER, NC
	DATE	6/13/05	
	REVISION	0	
	DRAWN BY	WCM	
	FILE	RR_Base_Map	

LEGEND

- SHALLOW MONITORING WELL
DEEP MONITORING WELL
RECOVERY WELL
FUEL LINE
SURFICIAL AQUIFER SHALLOW WELL
ESTIMATED EXTENT OF FREE PRODUCT
(THICKNESS EXPRESSED IN FEET)
(NP: MEASURABLE FREE PRODUCT NOT PRESENT)

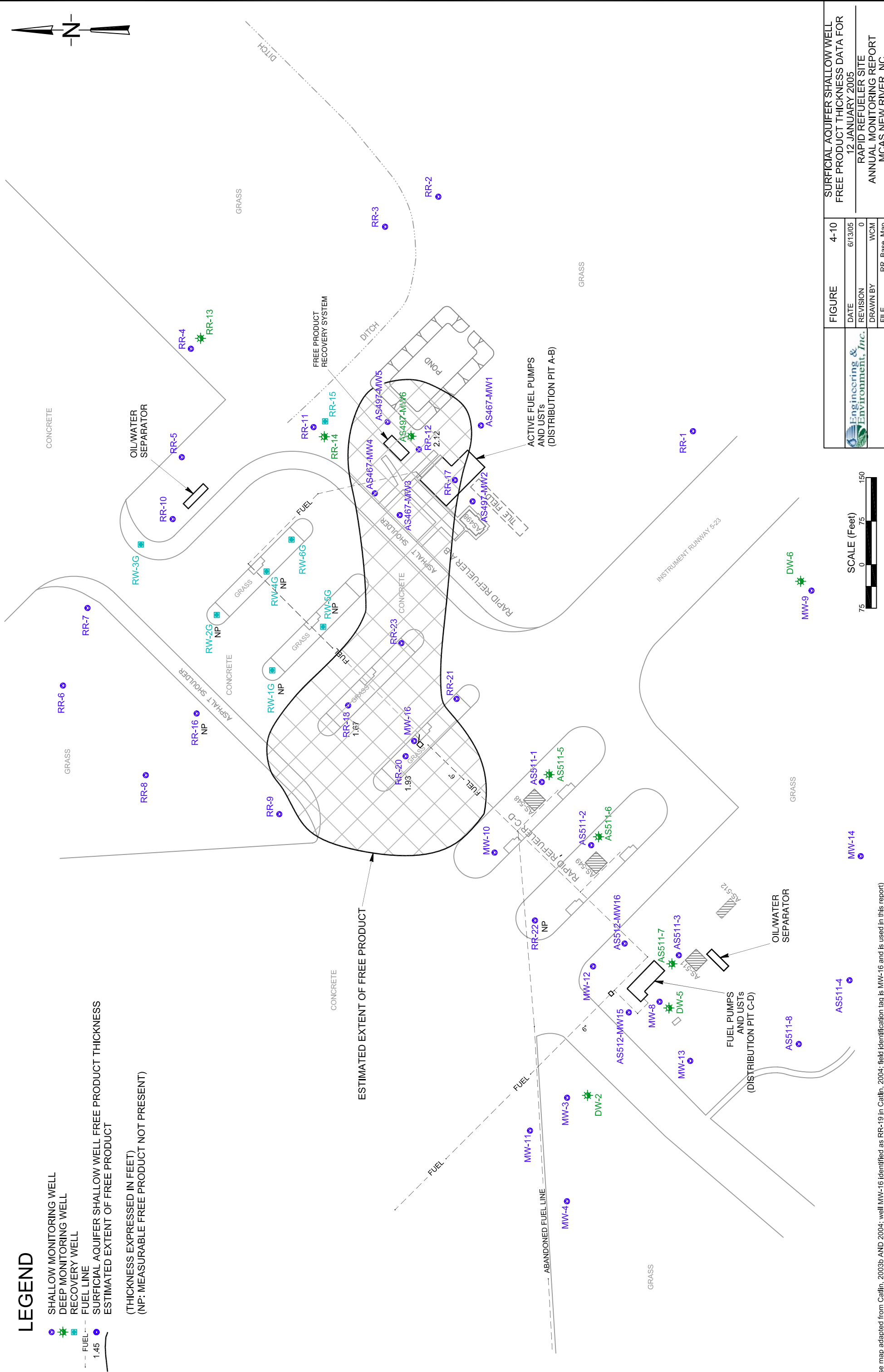


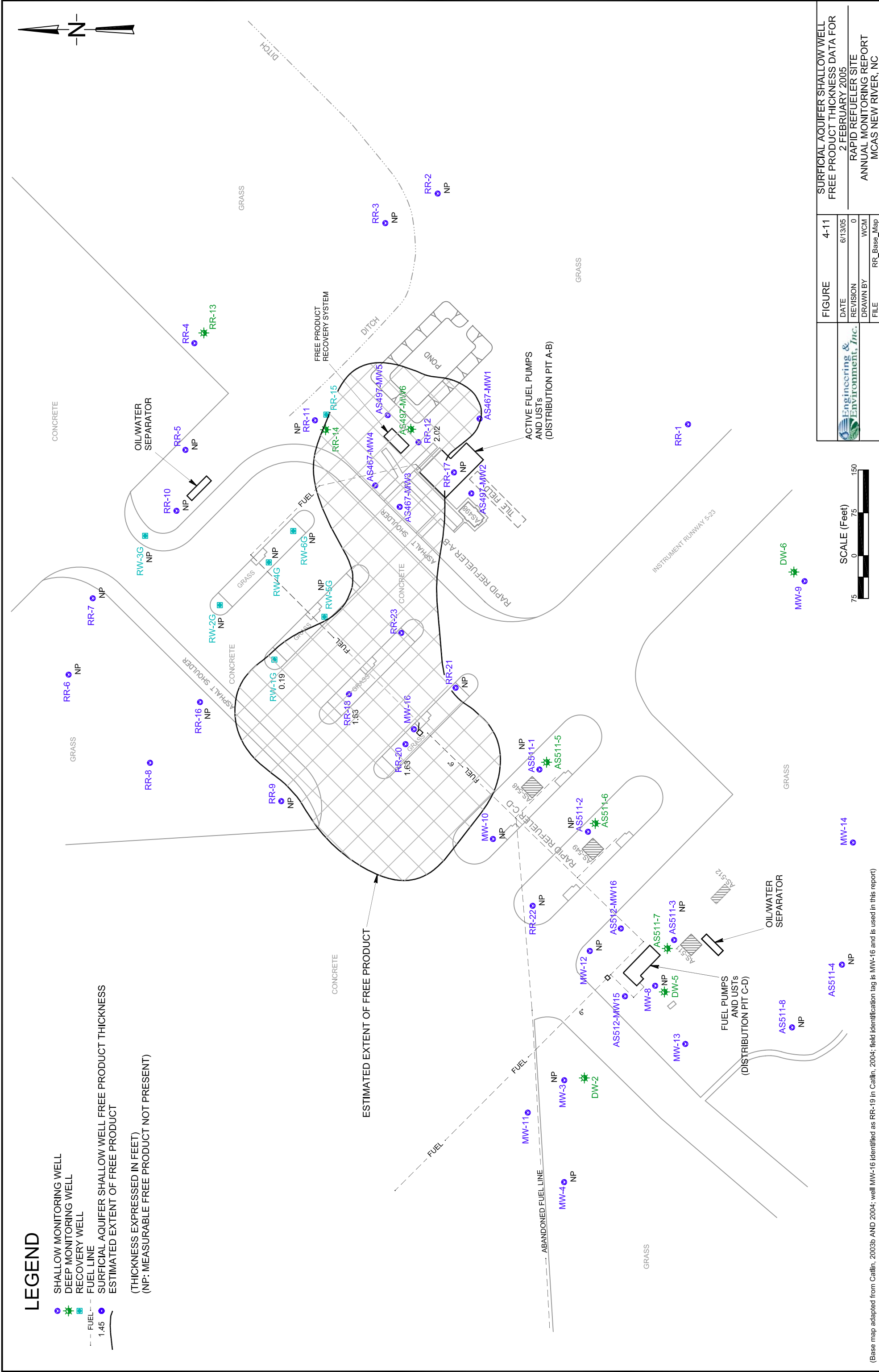
	FIGURE	4-10		SURFICIAL AQUIFER SHALLOW WELL FREE PRODUCT THICKNESS DATA FOR 12 JANUARY 2005 RAPID REFUELER SITE ANNUAL MONITORING REPORT MCAS NEW RIVER, NC
	DATE	6/13/05		
	REVISION	0		
	DRAWN BY	WCM		
	FILE	RR_Base_Map		



LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- RECOVERY WELL
- FUEL LINE
- SURFICIAL AQUIFER SHALLOW WELL FREE PRODUCT THICKNESS
- ESTIMATED EXTENT OF FREE PRODUCT
- (THICKNESS EXPRESSED IN FEET)
- (NP: MEASURABLE FREE PRODUCT NOT PRESENT)

--- FUEL ---
1.45



 Engineering & Environment, Inc.	FIGURE	4-11	SURFICIAL AQUIFER SHALLOW WELL FREE PRODUCT THICKNESS DATA FOR	
	DATE	6/13/05	2 FEBRUARY 2005	
	REVISION	0	RAPID REFUELER SITE	
	DRAWN BY	WCM	ANNUAL MONITORING REPORT	
	FILE	RR_Base_Map	MCAS NEW RIVER, NC	



LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- RECOVERY WELL
- FUEL LINE
- SURFICIAL AQUIFER SHALLOW WELL FREE PRODUCT THICKNESS
- ESTIMATED EXTENT OF FREE PRODUCT
- (THICKNESS EXPRESSED IN FEET)
- (NP: MEASURABLE FREE PRODUCT NOT PRESENT)

-- FUEL --
1.45

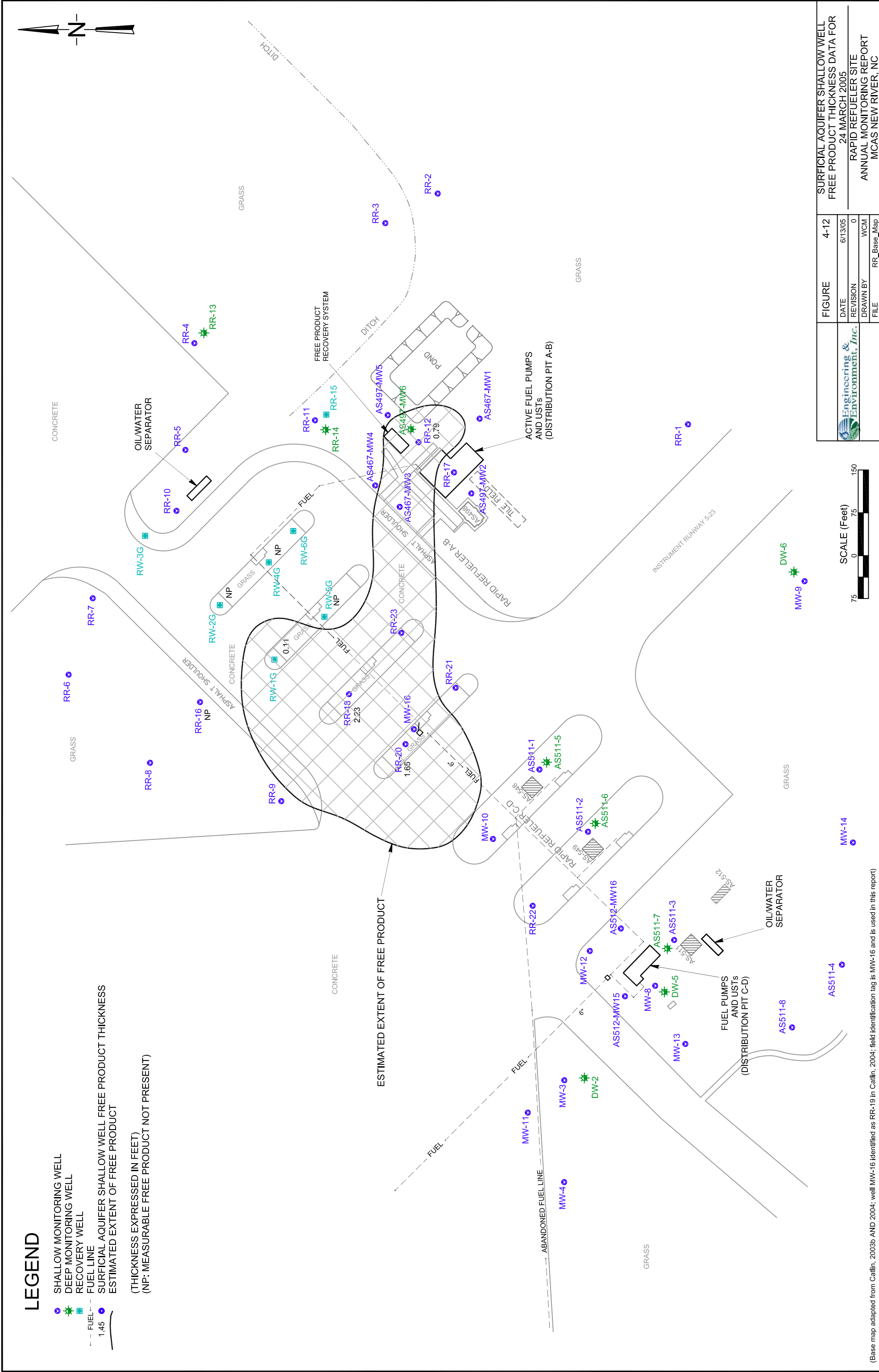
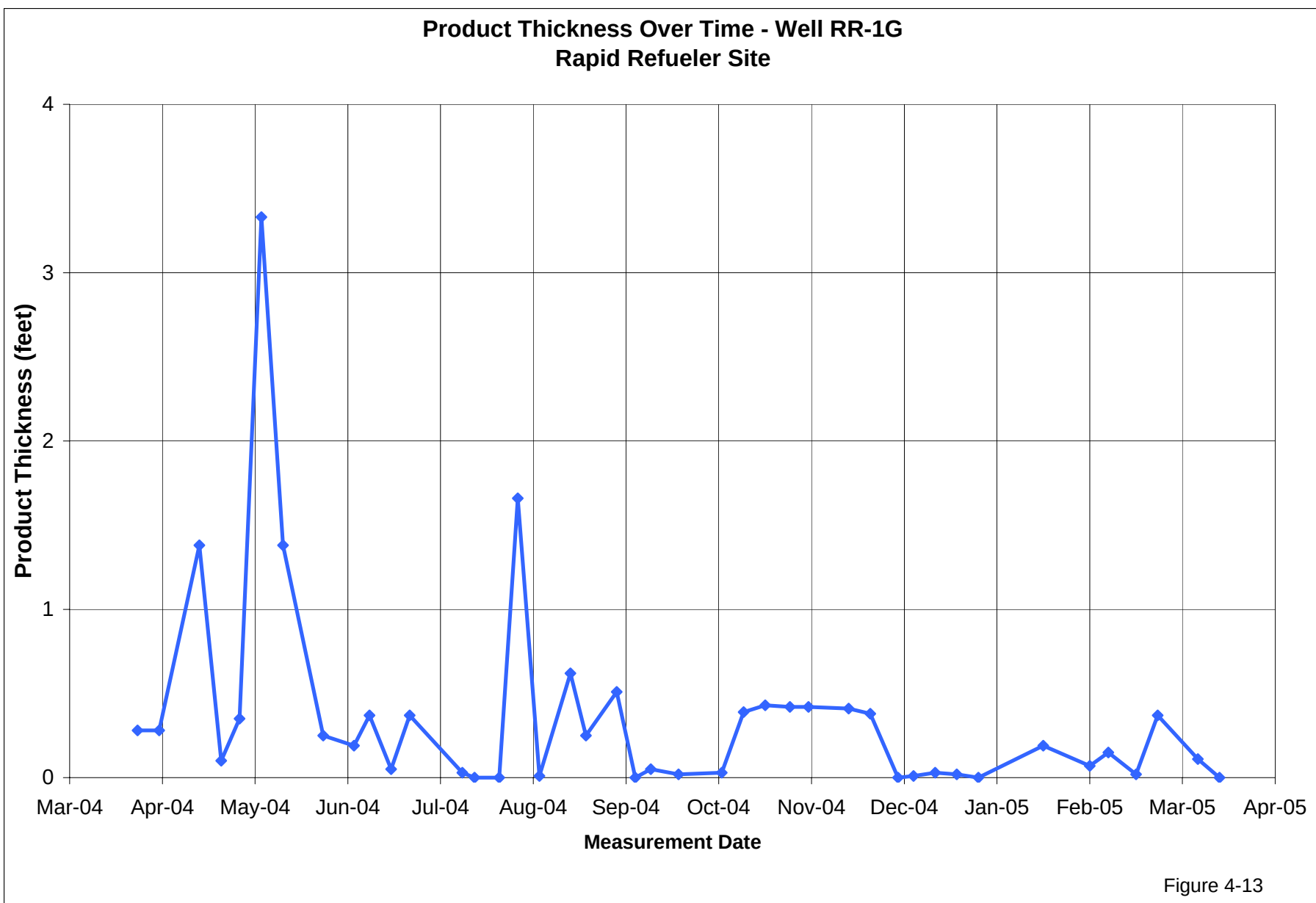


	FIGURE	4-12	SURFICIAL AQUIFER SHALLOW WELL FREE PRODUCT THICKNESS DATA FOR		
	DATE	6/13/05	24 MARCH 2005		
	REVISION	0	RAPID REFUELER SITE		
	DRAWN BY	WCM	ANNUAL MONITORING REPORT		
	FILE	RR_Base_Map	MCAS NEW RIVER, NC		



Product Thickness Over Time - Well RR-2G
Rapid Refueler Site

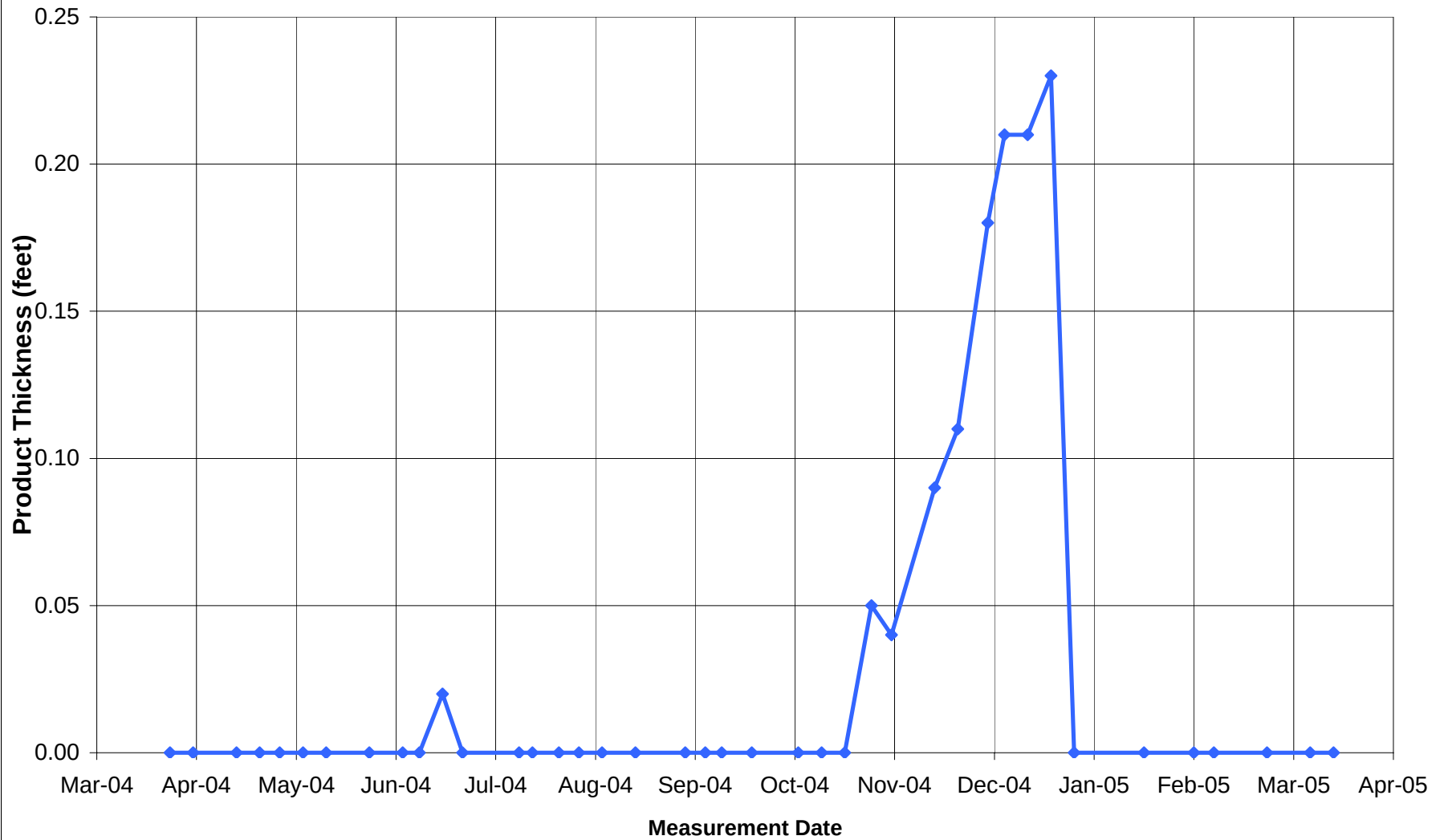


Figure 4-14

**Product Thickness Over Time - Well RR-5G
Rapid Refueler Site**

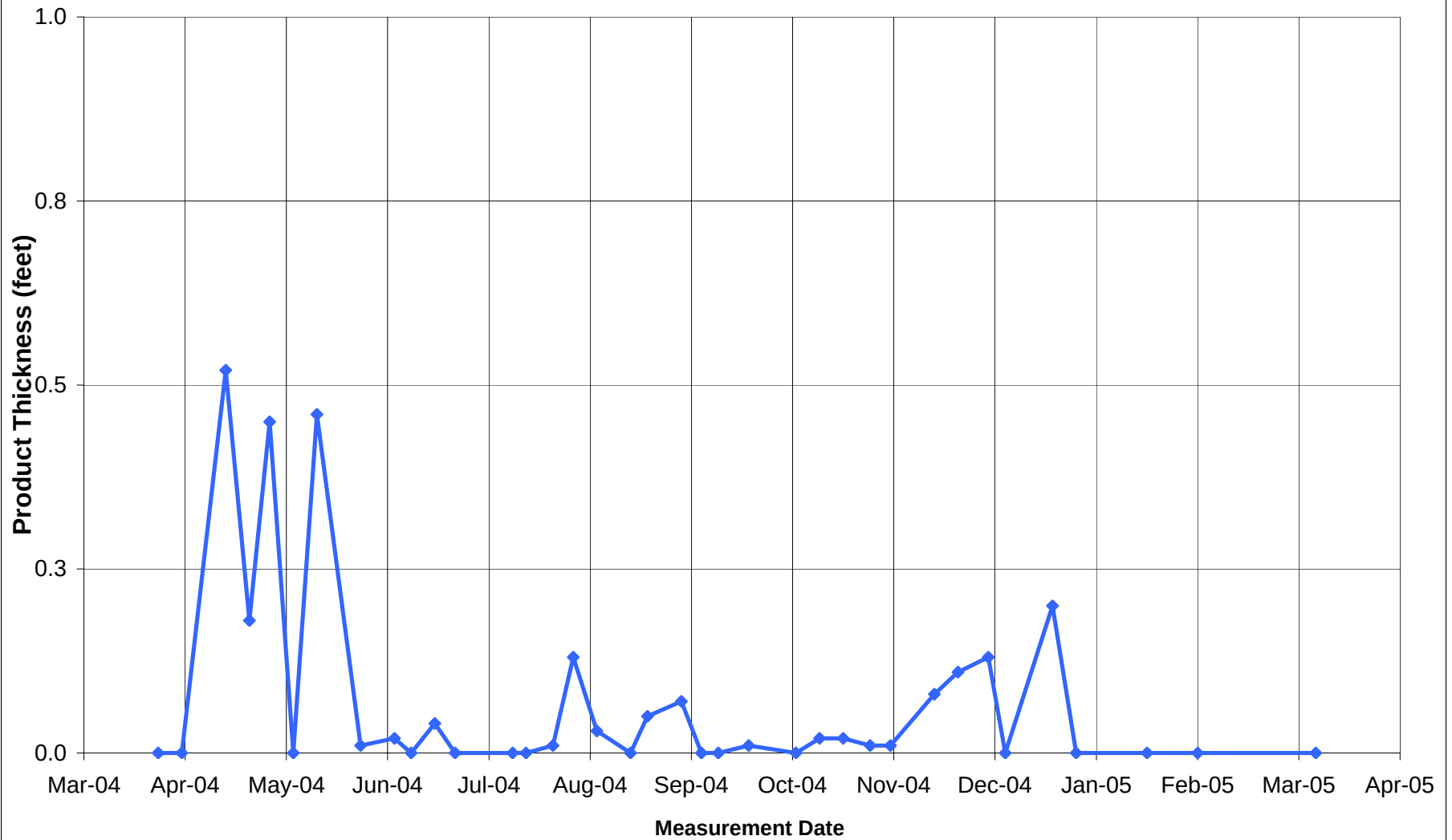


Figure 4-15

**Product Thickness Over Time - Well RR-12
Rapid Refueler Site**

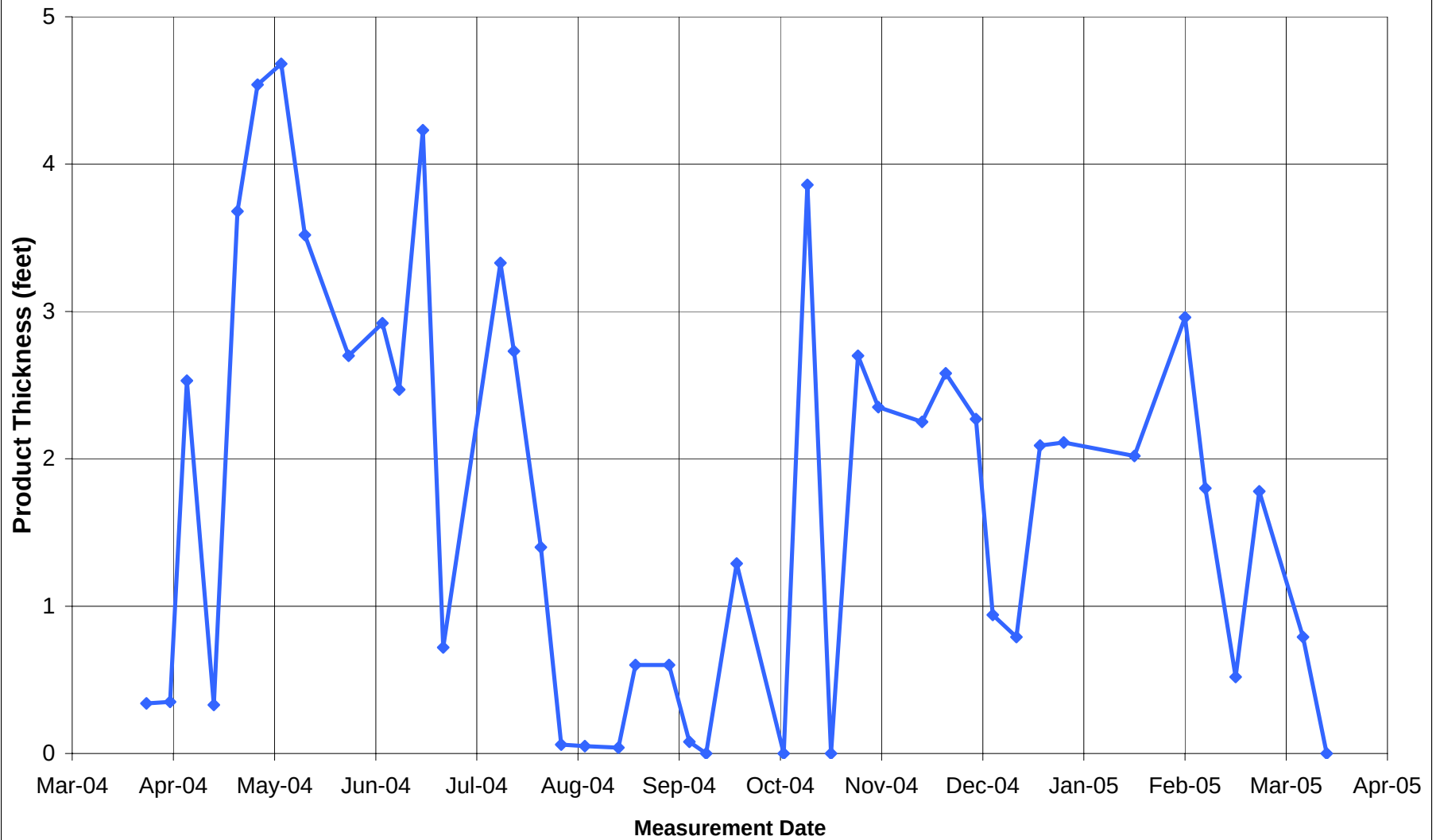


Figure 4-16

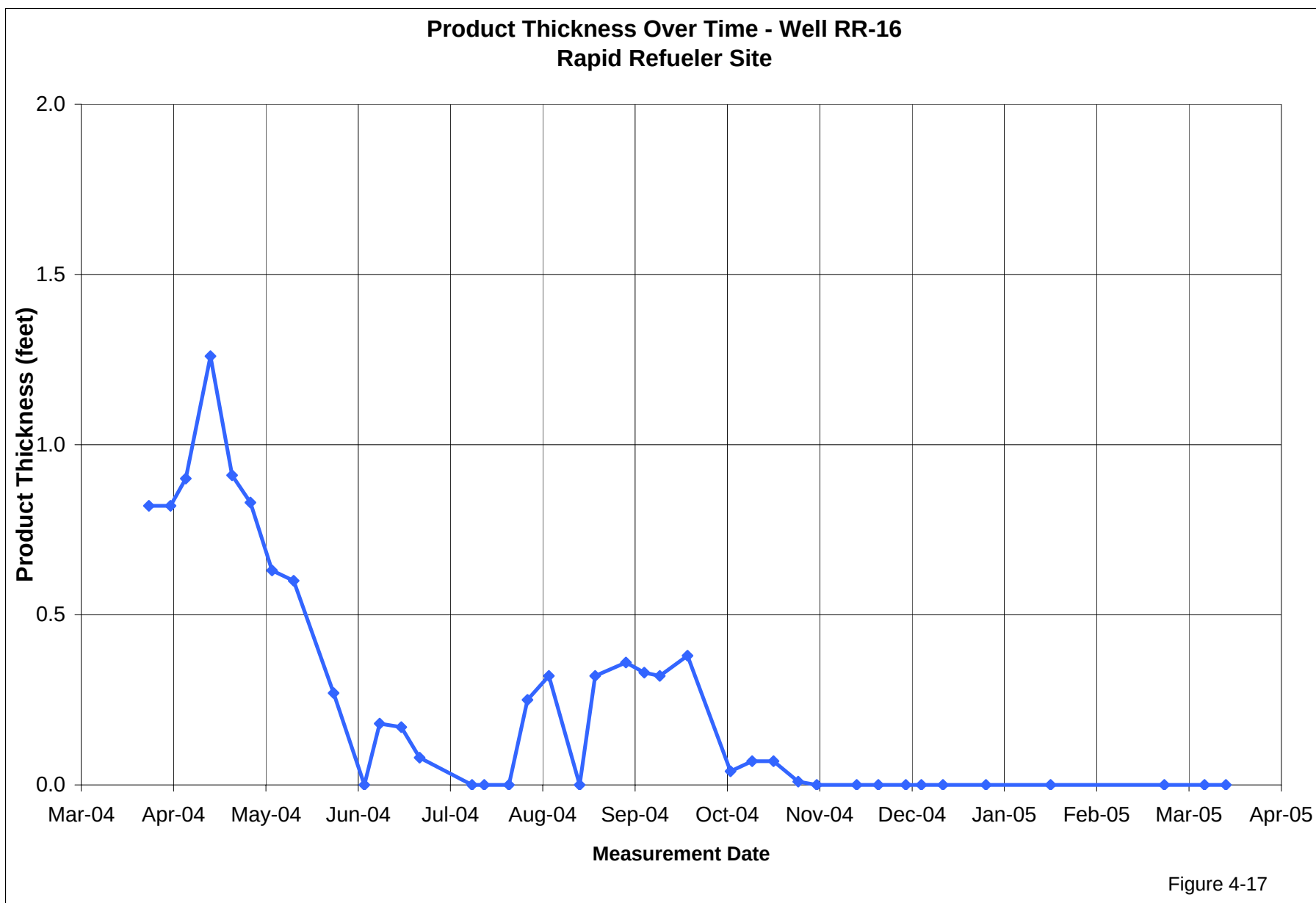


Figure 4-17

**Product Thickness Over Time - Well RR-18
Rapid Refueler Site**

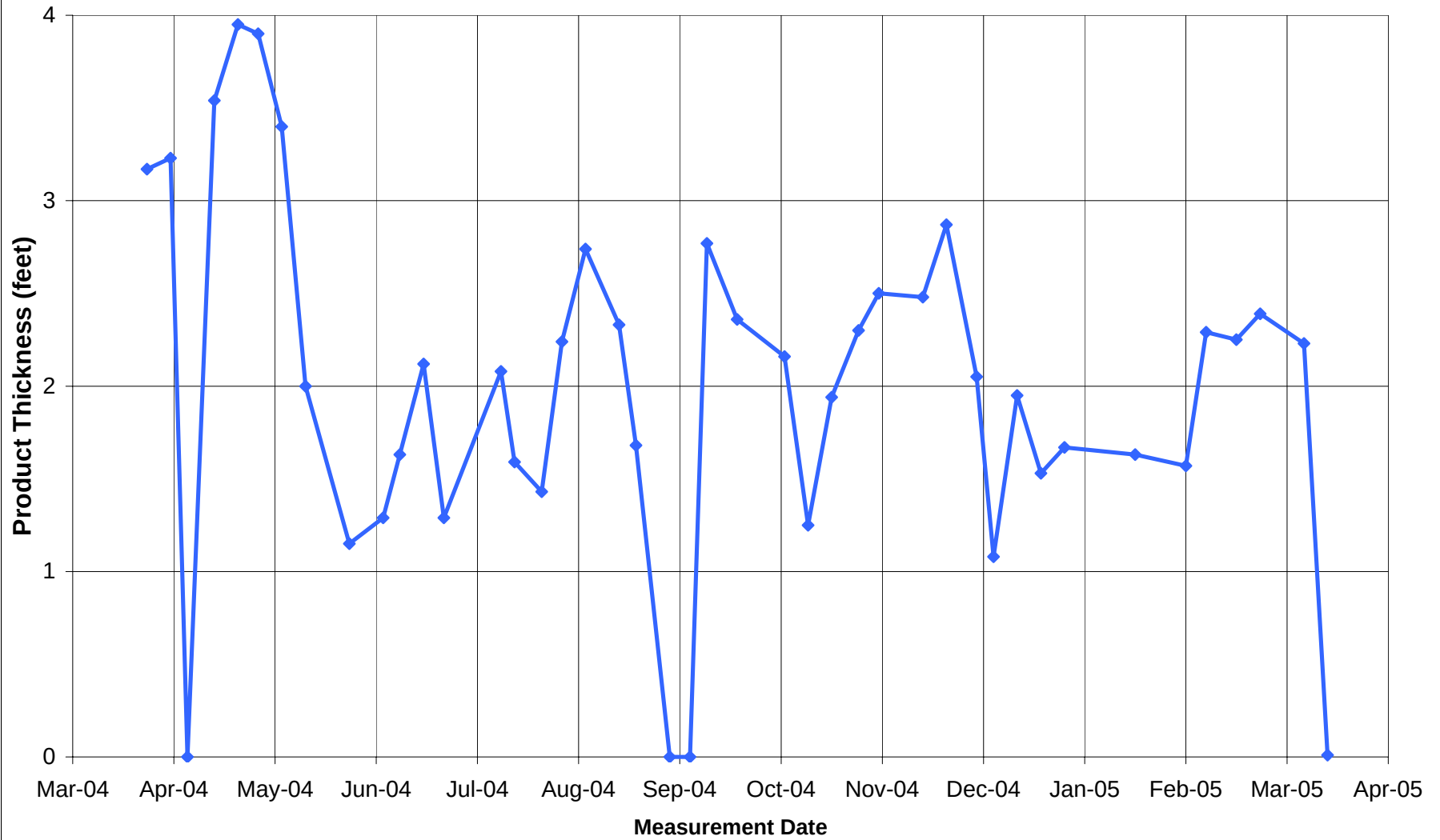


Figure 4-18

Product Thickness Over Time - Well RR-20
Rapid Refueler Site

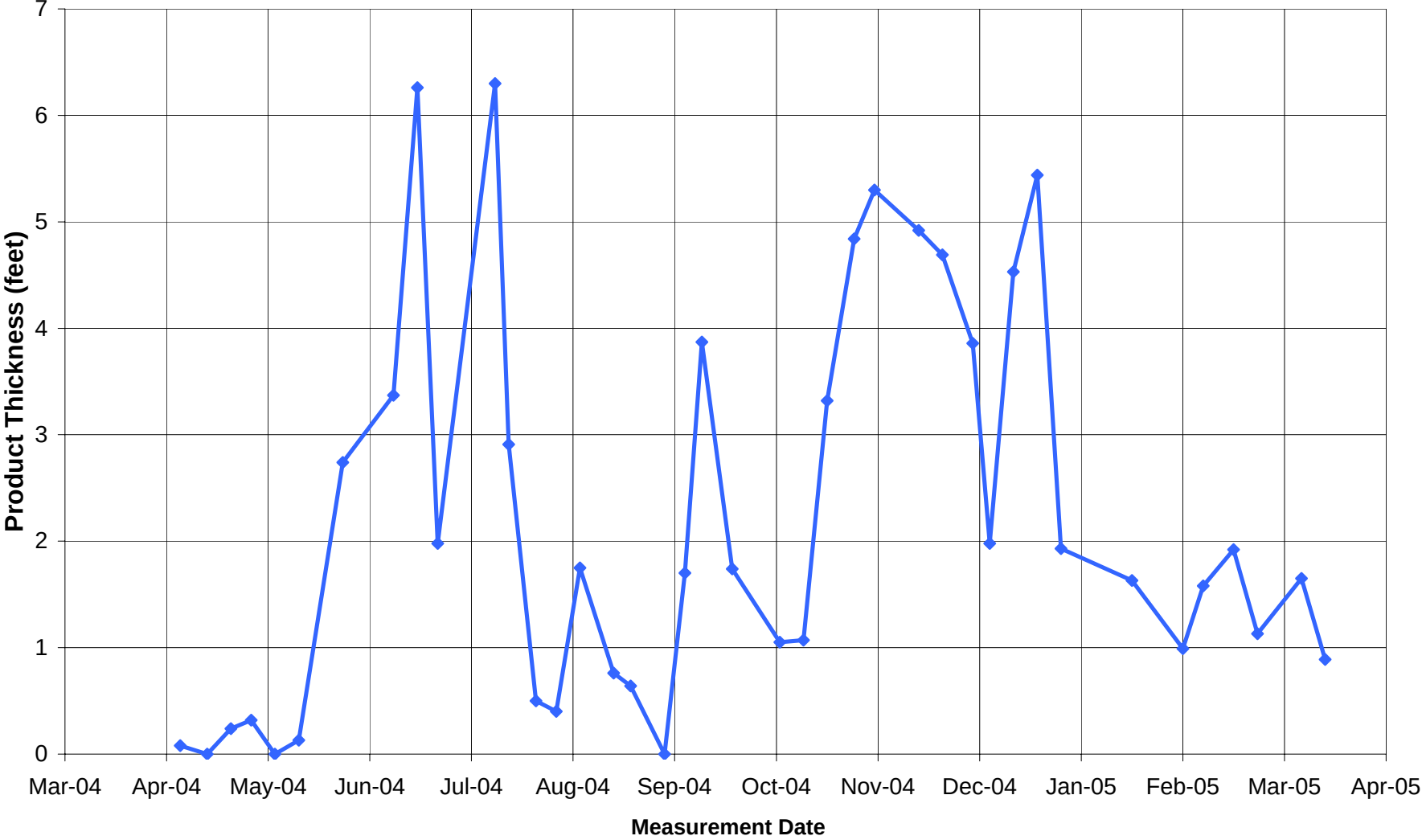


Figure 4-19

Well RR-1G Product Mass Removal by Aggressive Fluid Vapor Recovery Rapid Refueler Site

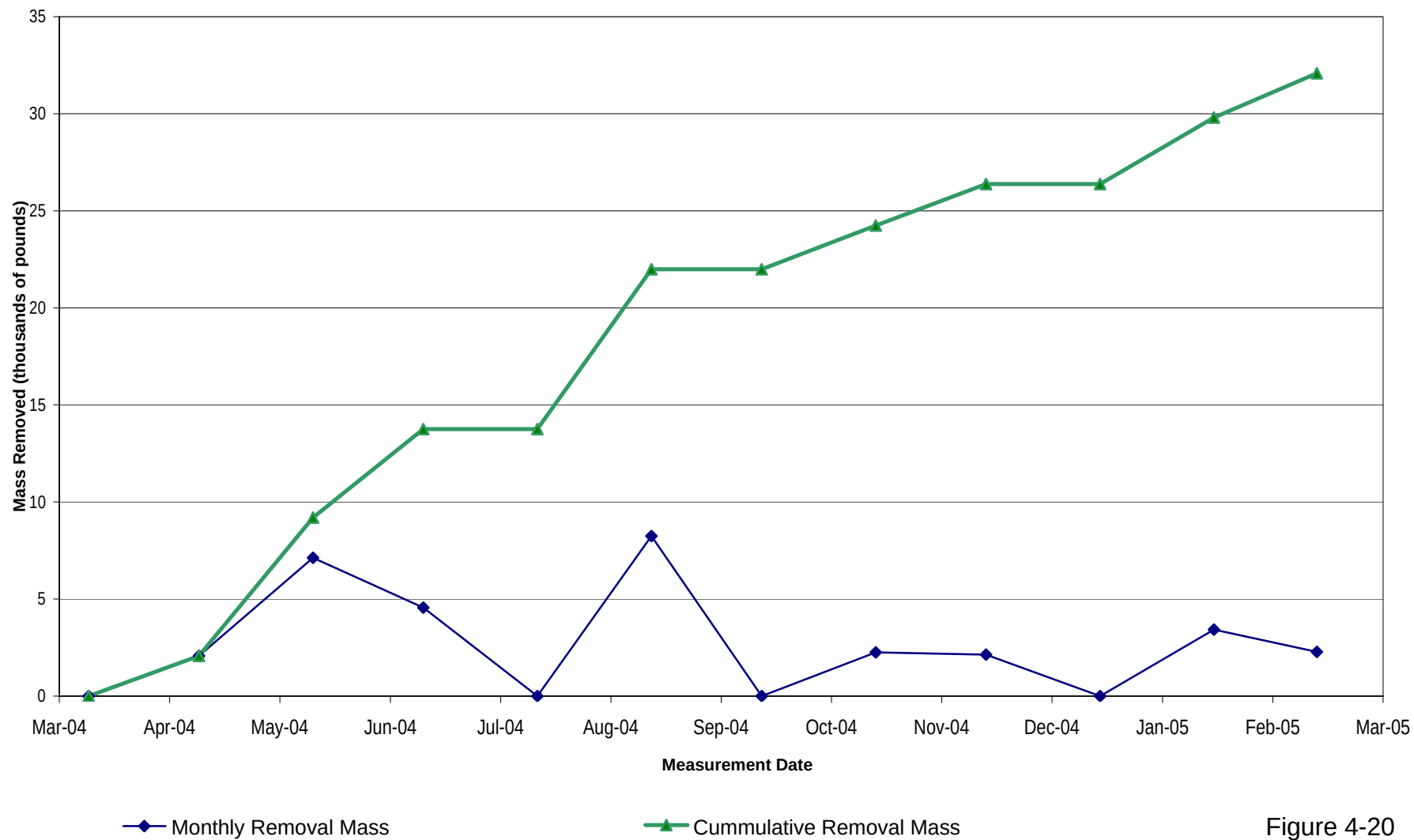
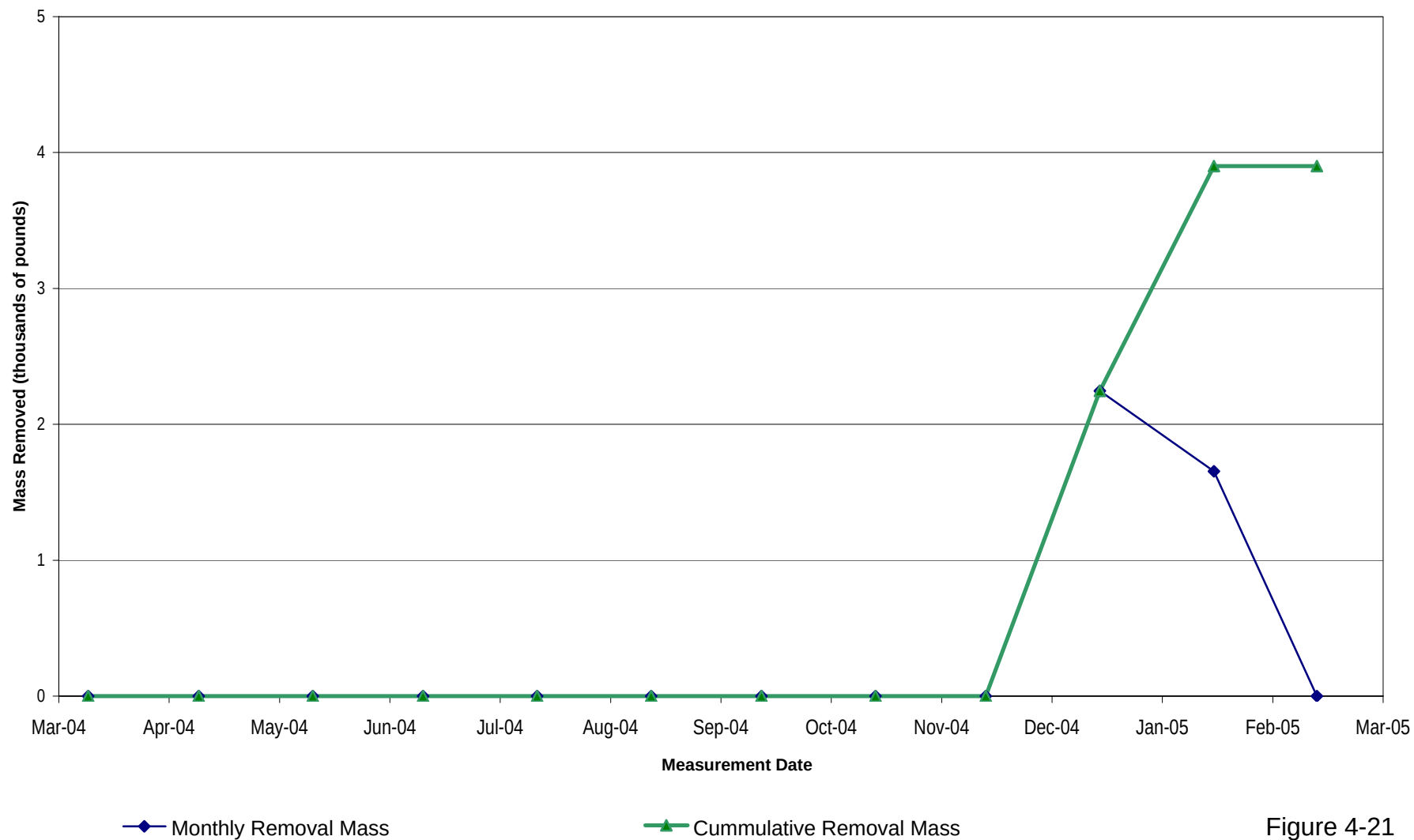


Figure 4-20

Well RR-2G Product Mass Removal by Aggressive Fluid Vapor Recovery Rapid Refueler Site



Well RR-5G Product Mass Removal by Aggressive Fluid Vapor Recovery Rapid Refueler Site

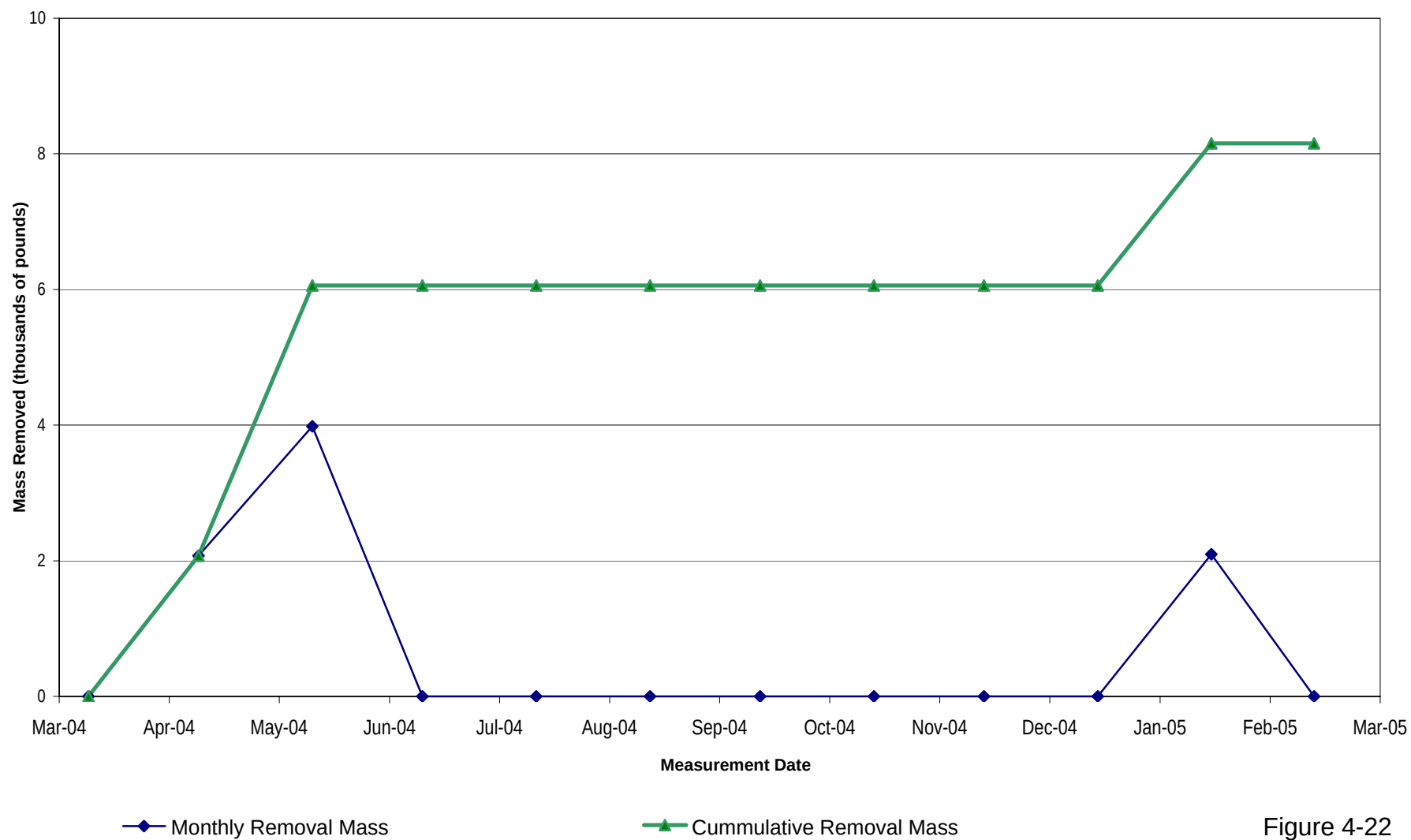


Figure 4-22

Well RR-12 Product Mass Removal by Aggressive Fluid Vapor Recovery Rapid Refueler Site

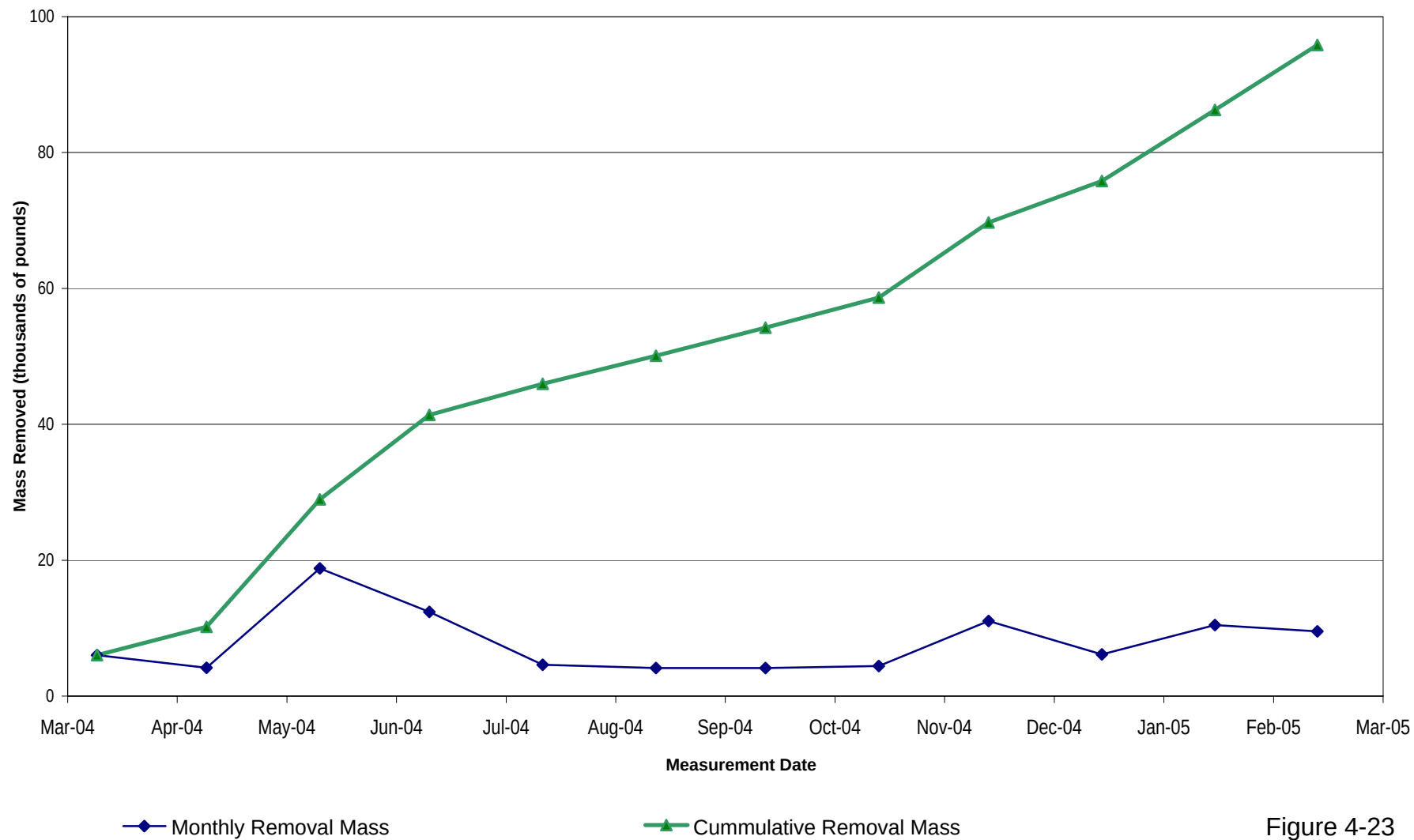


Figure 4-23

Well RR-16 Product Mass Removal by Aggressive Fluid Vapor Recovery Rapid Refueler Site

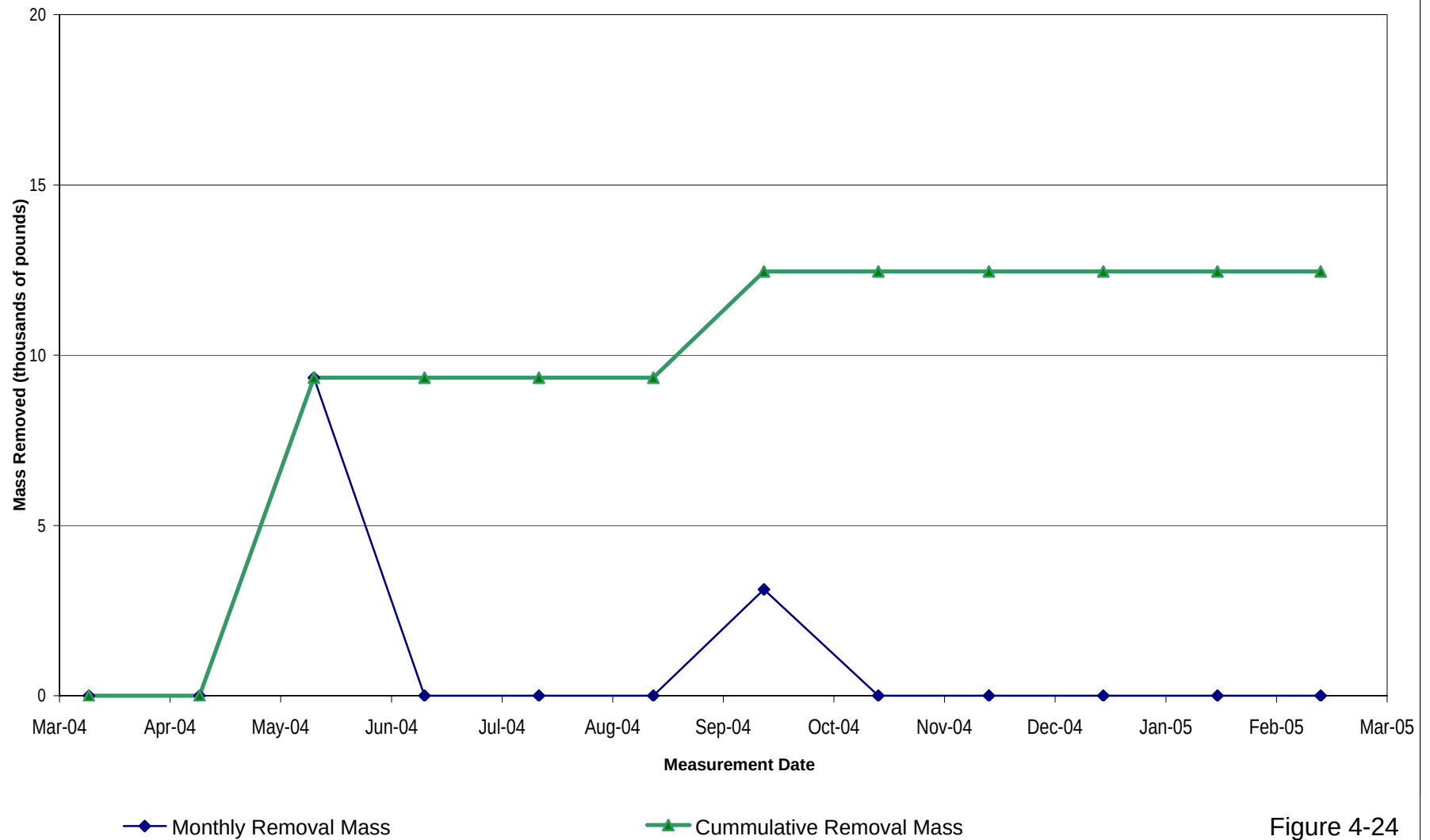


Figure 4-24

Well RR-18 Product Mass Removal by Aggressive Fluid Vapor Recovery Rapid Refueler Site

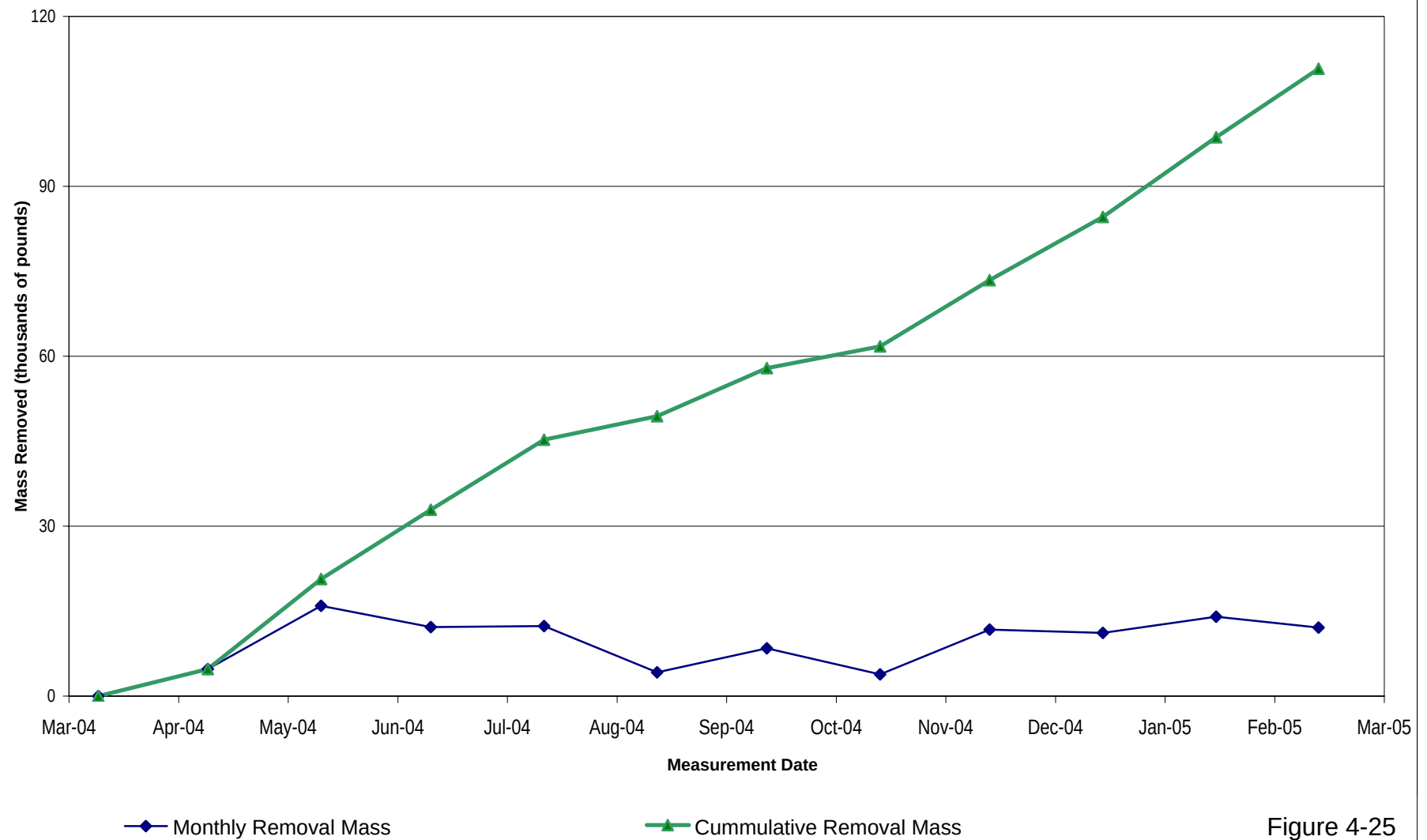


Figure 4-25

Well RR-20 Product Mass Removal by Aggressive Fluid Vapor Recovery Rapid Refueler Site

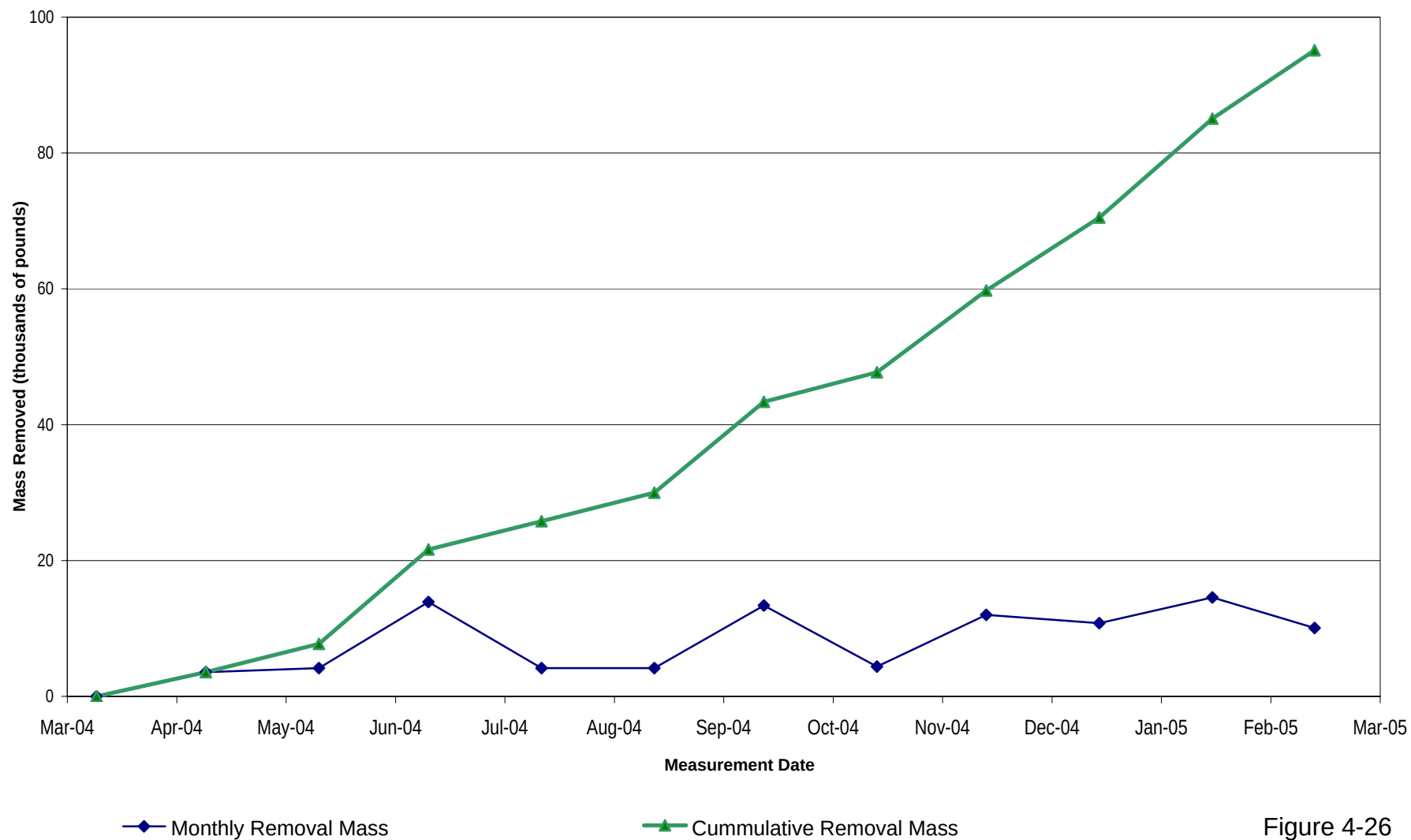
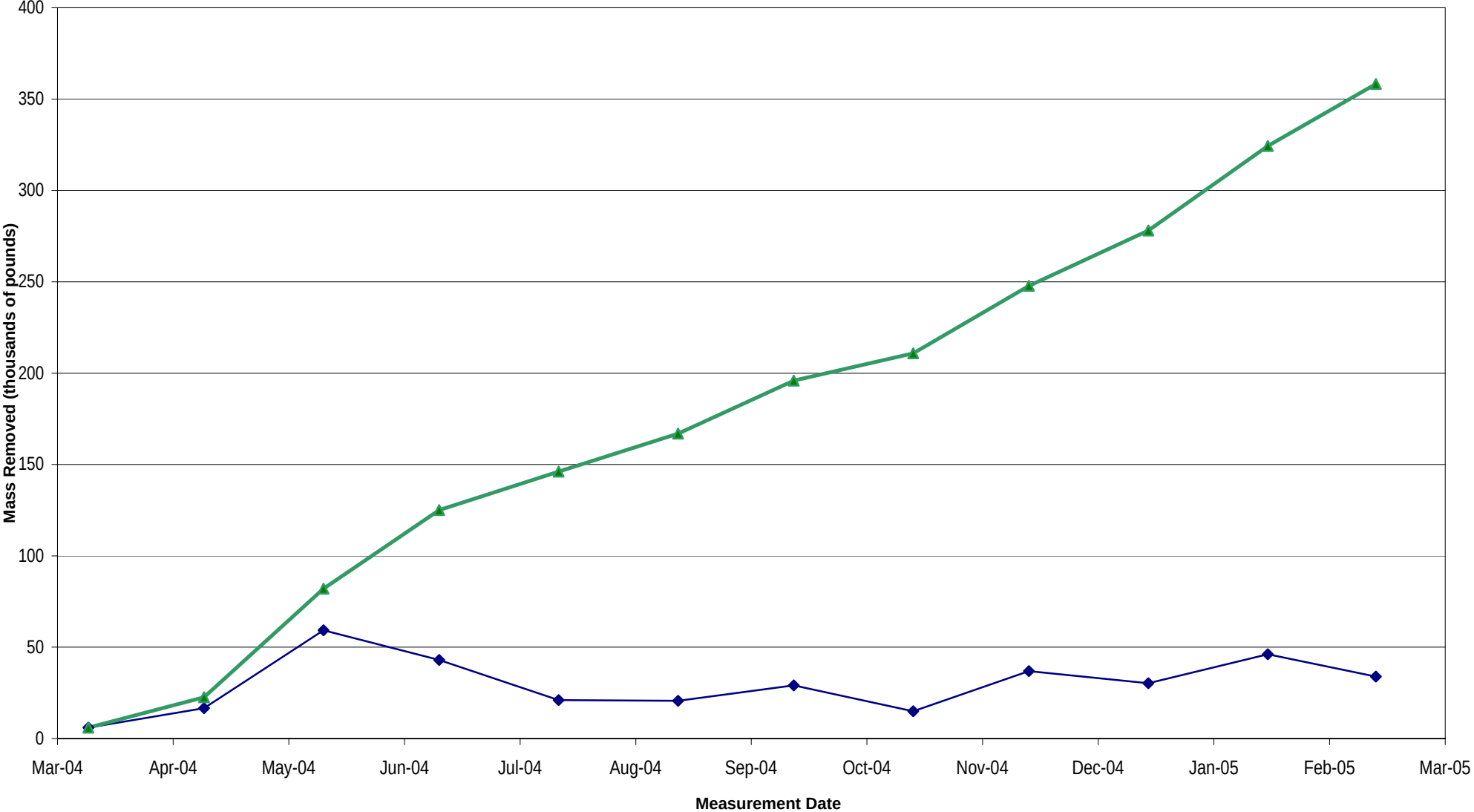


Figure 4-26

Well Field Product Mass Removal by Aggressive Fluid Vapor Recovery
Rapid Refueler Site



Monthly Removal Mass

Cumulative Removal Mass

Figure 4-27

TABLES

TABLE 3-1
Monitoring Well Construction Summary
Rapid Refueler

Well Identification	Date Installed	Inner Casing Diameter (inches)	Outer Casing Diameter (inches)	Elevations ⁽¹⁾		Outer Casing Depth (feet BGS)	Total Well Depth (feet BGS) (feet BTOC)		Filter Pack		Seal		Screened Interval				Formation Screened	Hydrogeologic Zone	
				Ground Surface (feet MSL)	Top of Casing (feet MSL)				Depth Interval (feet BGS)		Depth Interval (feet BGS)		Length (feet)	Depth (feet BGS)		Elevation (feet MSL)			
									From	To	From	To		From	To	From			To
RR-1	05/23/94	2	NA	24.8	24.31	NA	15.0	14.5	3.0	15.0	2.0	3.0	10.0	5.0	15.0	19.8	9.8	f-m Sandy CLAY to Clayey m SAND; mf-m SAND	Shallow
RR-2	05/23/94	2	NA	19.8	19.33	NA	14.0	13.5	4.0	14.0	3.0	4.0	10.0	4.0	14.0	15.8	5.8	m SAND	Shallow
RR-3	05/25/94	2	NA	19.6	19.10	NA	14.0	13.5	4.0	14.0	3.0	4.0	10.0	4.0	14.0	15.6	5.6	m SAND	Shallow
RR-4	05/24/94	2	NA	23.8	23.34	NA	15.0	14.5	3.0	15.0	2.0	3.0	10.0	5.0	15.0	18.8	8.8	mf-m SAND	Shallow
RR-5	05/26/94	2	NA	23.4	22.92	NA	14.0	13.5	4.0	14.0	3.0	4.0	10.0	4.0	14.0	19.4	9.4	m SAND	Shallow
RR-6	05/25/94	2	NA	21.0	20.52	NA	14.0	13.5	3.0	14.0	2.0	3.0	10.0	4.0	14.0	17.0	7.0	m SAND	Shallow
RR-7	05/25/94	2	NA	23.2	22.68	NA	15.0	14.5	3.0	15.0	2.0	3.0	10.0	5.0	15.0	18.2	8.2	m SAND	Shallow
RR-8	05/26/94	2	NA	23.9	23.41	NA	15.0	14.5	3.0	15.0	2.0	3.0	10.0	5.0	15.0	18.9	8.9	m SAND	Shallow
RR-9	05/24/94	2	NA	26.4	25.93	NA	15.0	14.5	3.0	15.0	2.0	3.0	10.0	5.0	15.0	21.4	11.4	mf-m SAND	Shallow
RR-10	05/24/94	2	NA	23.0	22.48	NA	15.0	14.5	3.0	15.0	2.0	3.0	10.0	5.0	15.0	18.0	8.0	mf-m SAND	Shallow
RR-11	05/26/94	2	NA	22.2	21.73	NA	15.0	14.5	3.0	15.0	2.0	3.0	10.0	5.0	15.0	17.2	7.2	mf-m SAND	Shallow
RR-12	05/26/94	2	NA	22.2	21.73	NA	14.0	13.5	4.0	14.0	3.0	4.0	10.0	4.0	14.0	18.2	8.2	m SAND	Shallow
RR-13	06/01/94	2	6	24.0	23.46	45.0	50.0	49.5	42.0	50.0	40.0	42.0	5.0	45.0	50.0	-21.0	-26.0	Silty SAND, moderately consolidated	Deep
RR-14	06/02/94	2	6	22.3	21.82	40.5	51.0	50.5	43.5	51.0	40.5	43.5	5.0	45.0	50.0	-22.7	-27.7	Sandy Limestone, moderately consolidated	Deep
RR-15	06/07/94	6	NA	22.3	21.80	NA	33.0	32.5	2.0	33.0	1.0	2.0	29.5	3.5	33.0	18.8	-10.7	Not Sampled	Intermediate
RR-16	09/13/97	4	NA	21.3	20.76	NA	15.0	14.5	3.0	15.0	2.0	3.0	10.0	5.0	15.0	16.3	6.3	f SAND, some Silt	Shallow
RR-17	InD	InD	NA	InD	InD	NA	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	Shallow
RR-18	09/13/97	4	NA	22.2	21.69	NA	15.0	14.5	3.0	15.0	2.0	3.0	10.0	5.0	15.0	17.2	7.2	Silty SAND	Shallow
RR-19	01/09/04	2	NA	26.4	26.09	NA	14.0	13.7	3.0	14.0	2.0	3.0	10.0	3.5	13.5	22.9	12.9	Silty to Clayey vf SAND, Silty to vf Sandy CLAY	Shallow
RR-20	03/11/04	2	NA	27.0	26.68	NA	15.0	14.7	3.0	15.0	2.0	3.0	10.0	4.5	14.5	22.5	12.5	Claye vf-f SAND; Silty CLAY; Silty vf-f SAND; f-c Silty SAND	Shallow
RR-21	03/11/04	2	NA	26.3	26.00	NA	14.0	13.7	2.0	14.0	1.0	2.0	10.0	3.5	13.5	22.8	12.8	Silty vf-f SAND; SAND to vf Sandy CLAY	Shallow
RR-22	09/13/97	4	NA	22.4	21.92	NA	15.0	14.5	3.0	15.0	2.0	3.0	10.0	5.0	15.0	17.4	7.4	Silty SAND	Shallow
AS511-1	02/07/95	2	NA	26.8	26.34	NA	15.0	14.5	4.0	15.0	3.0	4.0	10.0	5.0	15.0	21.8	11.8	Silty CLAY; vf-f-m SAND	Shallow
AS511-2	02/09/95	2	NA	26.8	26.26	NA	15.0	14.5	8.0	15.0	7.0	8.0	5.0	10.0	15.0	16.8	11.8	Clayey vf-f SAND; f-m SAND	Shallow
AS511-3	02/21/95	2	NA	27.4	26.90	NA	15.0	14.5	2.5	15.0	1.5	2.5	10.0	5.0	15.0	22.4	12.4	Clayey vf-f-m SAND; Silty f-Sandy CLAY; Silty vf-f SAND	Shallow
AS511-4	03/06/95	2	NA	27.5	26.97	NA	14.5	14.0	4.0	15.0	3.0	4.0	10.0	4.5	14.5	23.0	13.0	Silty CLAY; Clayey f-SAND; vf-f SAND	Shallow
AS511-5	02/07/95	2	6	26.5	25.98	40.0	50.0	49.5	42.5	50.0	40.0	42.5	5.0	45.0	50.0	-18.5	-23.5	shelly vf Sandy CLAY; shelly Clayey vf-f SAND	Deep
AS511-6	03/06/95	2	6	26.7	26.20	40.0	50.0	49.5	43.0	50.0	41.0	43.0	5.0	45.0	50.0	-18.3	-23.3	Silty vf SAND; Clayey vf SAND	Deep
AS511-7	03/09/95	2	6	27.4	26.89	40.0	50.0	49.5	42.5	50.0	40.0	42.5	5.0	45.0	50.0	-17.6	-22.6	f-m Sandy Limestone with minor shell fragments	Deep
AS511-8	03/08/95	2	NA	27.3	26.79	NA	15.0	14.5	4.0	15.0	2.5	4.0	10.0	5.0	15.0	22.3	12.3	f-m Sandy CLAY; Clayey f-m SAND	Shallow
MW-3	InD	InD	NA	27.5	27.01	NA	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	Shallow
MW-4	InD	InD	NA	28.6	28.10	NA	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	Shallow
MW-8	InD	InD	NA	28.2	27.70	NA	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	Shallow
MW-9	InD	InD	NA	26.9	26.44	NA	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	Shallow
MW-10	InD	InD	NA	27.4	26.86	NA	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	Shallow
MW-11	InD	InD	NA	28.3	27.79	NA	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	Shallow
MW-12	InD	InD	NA	27.1	26.58	NA	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	Shallow
MW-13	InD	InD	NA	27.4	26.90	NA	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	Shallow
DW-2	InD	InD	InD	27.1	26.62	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	Deep
DW-5	InD	InD	InD	27.6	27.07	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	Deep
DW-6	InD	InD	InD	25.9	25.40	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	Deep
RR-1G	InD	InD	NA	InD	InD	NA	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	Shallow
RR-2G	InD	InD	NA	InD	InD	NA	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	Shallow
RR-3G	InD	InD	NA	InD	InD	NA	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	Shallow
RR-4G	InD	InD	NA	InD	InD	NA	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	Shallow
RR-5G	InD	InD	NA	InD	InD	NA	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	Shallow
RR-6G	InD	InD	NA	InD	InD	NA	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	Shallow
RW-1	InD	InD	NA	InD	InD	NA	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	Shallow

⁽¹⁾ Top of Casing elevations expressed in feet/above/below mean sea level; ground surface elevations (and all associated BGS depths) estimated

MSL - mean sea level

BGS - below ground surface

BTOC - below top of casing

NA: Not applicable

InD: Insufficient data or data unavailable

f - fine

m - medium

c - coarse

vc - very coarse

TABLE 3-2 (page 1 of 2)
Groundwater Elevation Data Over Time
Rapid Refueler

Location	Top of Casing Elevation ⁽¹⁾	Screen Zone	Groundwater Elevation (feet MSL)																							
			6/9/1994	9/29/1994	3/10/1995	10/4/1997	4/15/2004	4/22/2004	4/27/2004	5/5/2004	5/12/2004	5/18/2004	5/25/2004	6/1/2004	6/14/2004	6/24/2004	6/29/2004	7/6/2004	7/12/2004	7/29/2004	8/2/2004	8/10/2004	8/16/2004	8/23/2004	9/2/2004	9/7/2004
RR-1	24.31	Shallow	18.00	19.98	NM	19.89	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
RR-2	19.33	Shallow	13.61	14.18	NM	14.56	15.15	15.13	14.34	15.58	14.53	14.28	14.07	14.02	13.94	NM	13.98	13.83	14.53	NM	14.48	14.53	16.51	15.03	15.83	NM
RR-3	19.10	Shallow	13.41	13.65	NM	14.03	14.04	14.02	13.78	14.28	13.89	13.70	13.63	13.59	13.57	NM	13.60	13.53	13.83	NM	13.75	13.78	14.70	14.15	14.24	NM
RR-4	23.34	Shallow	14.24	14.88	NM	14.78	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
RR-5	22.92	Shallow	14.88	15.43	NM	15.22	15.92	15.91	15.77	16.67	16.05	15.79	15.68	15.51	15.36	NM	15.27	15.19	15.31	NM	15.72	15.99	17.29	16.68	16.50	NM
RR-6	20.52	Shallow	16.05	16.44	NM	15.97	14.77	14.77	16.52	17.38	16.77	16.58	16.49	16.36	16.20	NM	16.32	15.99	16.59	NM	16.42	16.45	18.54	17.29	17.72	NM
RR-7	22.68	Shallow	15.64	16.02	NM	15.67	16.31	16.29	16.20	16.77	16.44	16.27	16.24	16.10	15.96	NM	15.95	15.81	16.06	NM	16.08	16.41	17.36	16.86	16.90	NM
RR-8	23.41	Shallow	16.41	NM	NM	16.35	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
RR-9	25.93	Shallow	16.76	17.32	NM	16.67	17.75	17.65	17.55	18.64	18.11	17.81	17.60	17.36	17.15	NM	17.04	16.86	17.03	NM	17.64	17.77	19.42	19.16	19.03	NM
RR-10	22.48	Shallow	15.29	15.80	NM	15.51	16.10	16.10	16.08	16.85	16.35	16.13	16.02	15.86	15.73	NM	15.64	15.53	15.67	NM	16.03	16.28	17.44	17.23	16.76	NM
RR-11	21.73	Shallow	14.24	14.65	NM	14.98	15.90	15.88	15.28	15.93	15.38	15.11	15.04	15.00	15.00	NM	14.93	14.81	15.11	NM	15.11	15.56	16.52	16.03	15.80	NM
RR-12	21.73	Shallow	15.18	15.53	NM	16.10	17.19	17.18	16.69	17.54	16.65	15.96	15.74	15.93	16.09	16.32	16.29	15.40	16.80	16.07	16.00	17.01	17.97	17.77	17.71	17.56
RR-13	23.46	Deep	14.29	16.34	NM	14.61	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
RR-14	21.82	Deep	14.93	NM	NM	14.92	15.99	15.94	15.91	16.80	16.15	15.79	15.64	15.57	15.50	NM	15.47	15.22	15.72	NM	16.62	16.21	17.57	16.79	16.75	NM
RR-15	21.80	Intermediate	14.40	NM	NM	14.99	15.59	15.56	15.30	15.92	15.40	15.11	15.03	15.00	14.98	NM	14.97	14.80	15.13	NM	15.12	15.53	16.34	15.81	15.85	NM
RR-16	20.76	Shallow	NM	NM	NM	11.96	12.97	12.96	12.70	13.75	13.15	12.89	12.71	12.53	12.35	12.43	12.32	11.03	12.24	12.54	12.51	12.98	14.23	13.72	13.84	13.60
RR-17	InD	Shallow	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
RR-18	21.69	Shallow	NM	NM	NM	12.46	13.53	13.50	10.31	14.58	13.89	13.51	13.23	13.01	12.81	12.72	12.66	12.49	12.67	13.15	13.04	13.82	14.77	14.62	14.54	14.43
RR-19	26.09	Shallow	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
RR-20	26.68	Shallow	NM	NM	NM	NM	NM	NM	18.86	19.80	19.72	19.29	19.97	18.43	17.99	NM	18.18	17.50	17.86	18.02	17.91	18.78	19.97	19.73	19.63	19.47
RR-21	26.00	Shallow	NM	NM	NM	NM	NM	NM	21.30	22.65	22.08	21.59	21.18	21.05	21.38	NM	21.78	21.18	21.10	NM	22.47	22.68	24.58	23.10	23.87	NM
RR-22	21.92	Shallow	NM	NM	NM	13.14	14.62	14.61	14.52	15.48	15.38	14.97	14.69	14.32	13.91	NM	13.63	13.60	13.57	NM	14.07	14.93	15.84	16.11	16.00	NM
AS511-1	26.34	Shallow	NM	NM	18.24	18.54	20.41	20.41	19.72	22.02	20.79	20.09	19.64	19.24	18.92	NM	18.82	18.52	18.69	NM	NM	20.74	NM	21.94	22.14	NM
AS511-2	26.26	Shallow	NM	NM	18.91	18.19	20.55	20.32	19.93	22.16	21.05	20.35	19.91	19.52	19.03	NM	18.76	18.56	18.79	NM	19.40	20.88	23.01	22.23	22.32	NM
AS511-3	26.90	Shallow	NM	NM	19.65	18.12	20.18	20.16	20.22	21.57	21.47	20.92	20.54	19.91	19.37	NM	19.00	18.35	18.90	NM	19.38	20.52	21.68	22.25	21.90	NM
AS511-4	26.97	Shallow	NM	NM	19.99	19.52	22.34	22.33	21.03	24.19	22.87	21.93	21.18	20.39	19.72	NM	19.32	19.17	19.29	NM	20.42	22.64	26.46	24.67	24.57	NM
AS511-5	25.98	Deep	NM	NM	18.43	17.87	19.33	19.32	18.68	20.01	19.70	19.09	18.67	17.26	18.00	NM	17.85	17.73	19.53	NM	NM	19.38	NM	21.04	20.48	NM
AS511-6	26.20	Deep	NM	NM	18.58	18.11	20.07	19.75	19.39	21.22	20.42	19.82	19.40	18.98	18.57	NM	18.35	18.15	18.40	NM	19.00	20.25	21.95	21.50	21.43	NM
AS511-7	26.89	Deep	NM	NM	18.83	18.18	20.10	20.09	19.67	21.47	20.74	20.18	19.80	19.23	18.77	NM	18.44	18.87	18.47	NM	19.04	20.39	23.51	21.87	21.64	NM
AS511-8	26.79	Shallow	NM	NM	19.74	18.86	20.69	20.37	20.31	22.89	21.78	20.99	20.46	19.94	19.37	NM	19.02	18.82	18.91	NM	19.68	21.34	24.42	23.67	23.09	NM
MW-3	27.01	Shallow	NM	NM	NM	19.19	18.39	18.36	18.30	19.31	18.98	18.65	18.43	18.10	17.76	NM	17.48	17.43	17.53	NM	NM	21.62	NM	19.71	19.54	NM
MW-4	28.10	Shallow	NM	17.38	NM	16.62	17.97	17.95	17.87	19.06	18.51	18.18	17.93	17.60	17.30	NM	17.14	17.00	17.07	NM	17.40	18.10	19.63	19.19	19.02	NM
MW-8	27.70	Shallow	NM	NM	NM	18.10	20.08	20.07	20.09	21.26	21.13	20.70	20.35	19.81	19.32	NM	18.97	18.83	18.90	NM	NM	20.37	21.76	22.00	21.69	NM
MW-9	26.44	Shallow	NM	NM	NM	20.18	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-10	26.86	Shallow	NM	19.84	NM	17.65	19.14	19.12	18.85	20.34	19.73	19.24	18.92	18.56	18.22	NM	17.99	17.84	17.96	NM	18.51	19.51	21.60	20.55	20.99	NM
MW-11	27.79	Shallow	NM	NM	NM	18.42	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-12	26.58	Shallow	NM	NM	NM	17.72	19.33	19.21	19.23	20.63	20.15	19.73	19.45	18.99	18.72	18.3										

⁽¹⁾ Top of casing elevation expressed in feet above/below MSL
MSL: mean sea level
Groundwater elevations corrected for free product as needed by adding (0.8 x product thickness) to uncorrected groundwater elevation

NM: Not measured (e.g., for the indicated date, the well was not accessible, the well was not installed, or the well was not included in gauging program)
NC: Insufficient data to calculate groundwater elevation (e.g., top of casing elevation datum not available)
InD: Insufficient data or data unavailable

TABLE 3-2 (page 2 of 2)
Groundwater Elevation Data Over Time
Rapid Refueler

Location	Top of Casing Elevation ⁽¹⁾	Screen Zone	Groundwater Elevation (feet MSL)																							
			9/17/2004	9/23/2004	9/28/2004	10/7/2004	10/21/2004	10/28/2004	11/4/2004	11/12/2004	11/18/2004	12/1/2004	12/8/2004	12/17/2004	12/22/2004	12/29/2004	1/5/2005	1/12/2005	2/2/2005	2/17/2005	2/23/2005	3/4/2005	3/11/2005	3/24/2005	3/31/2005	
RR-1	24.31	Shallow	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
RR-2	19.33	Shallow	15.63	14.86	14.74	14.42	14.18	14.08	14.01	13.93	NM	14.15	13.98	NM	13.93	NM	NM	NM	14.60	NM	NM	NM	NM	NM	NM	
RR-3	19.10	Shallow	14.40	14.08	14.03	13.82	13.80	13.67	13.63	13.49	NM	13.72	13.70	NM	13.65	NM	NM	NM	13.92	NM	NM	NM	NM	NM	NM	
RR-4	23.34	Shallow	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
RR-5	22.92	Shallow	17.73	16.49	16.34	15.82	15.54	15.37	15.34	15.24	NM	15.22	15.02	NM	14.94	NM	NM	NM	15.32	NM	NM	NM	NM	NM	NM	
RR-6	20.52	Shallow	17.90	17.22	17.18	16.64	16.32	16.12	16.07	15.91	NM	15.84	15.72	NM	15.62	NM	NM	NM	16.04	NM	NM	NM	NM	NM	NM	
RR-7	22.68	Shallow	17.30	16.77	16.68	16.33	16.08	15.93	15.90	15.72	NM	15.68	15.55	NM	15.43	NM	NM	NM	15.77	NM	NM	NM	NM	NM	NM	
RR-8	23.41	Shallow	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
RR-9	25.93	Shallow	19.92	19.13	18.91	17.91	17.35	17.02	16.89	16.73	NM	16.69	16.51	NM	16.33	NM	NM	NM	16.78	NM	NM	NM	NM	NM	NM	
RR-10	22.48	Shallow	17.68	16.73	16.70	16.16	15.85	15.70	15.67	15.56	NM	15.54	15.32	NM	15.23	NM	NM	NM	15.60	NM	NM	NM	NM	NM	NM	
RR-11	21.73	Shallow	16.42	15.73	15.70	15.41	15.16	15.06	15.01	14.96	NM	15.20	14.99	NM	14.90	NM	NM	NM	15.35	NM	NM	NM	NM	NM	NM	
RR-12	21.73	Shallow	17.91	17.78	17.41	16.95	17.61	16.04	13.53	15.74	16.01	16.31	15.92	15.80	15.68	16.35	16.20	15.92	16.57	16.38	16.57	16.35	16.77	17.01	17.12	
RR-13	23.46	Deep	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
RR-14	21.82	Deep	17.28	16.67	16.56	16.08	15.69	15.50	15.42	15.30	NM	15.49	15.30	NM	15.12	NM	NM	NM	15.72	NM	NM	NM	NM	NM	NM	
RR-15	21.80	Intermediate	16.20	15.78	15.75	15.43	14.18	15.08	15.02	14.95	NM	15.15	15.00	NM	14.90	NM	NM	NM	15.31	NM	NM	NM	NM	NM	NM	
RR-16	20.76	Shallow	14.37	13.69	13.52	12.94	12.47	12.27	12.17	12.03	11.95	12.01	11.81	11.75	11.66	11.83	NM	11.71	12.11	NM	NM	NM	12.48	12.61	12.91	
RR-17	InD	Shallow	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
RR-18	21.69	Shallow	15.73	15.28	13.49	13.65	12.98	12.74	12.69	12.41	12.34	12.40	12.17	12.15	12.07	12.24	12.40	12.11	12.56	12.51	12.51	12.39	12.98	13.12	13.29	
RR-19	26.09	Shallow	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
RR-20	26.68	Shallow	23.45	19.74	19.36	18.62	18.32	17.74	17.54	17.50	17.40	17.50	17.28	16.93	16.78	17.07	17.02	16.83	17.35	17.30	17.36	18.10	18.07	18.10	18.29	
RR-21	26.00	Shallow	24.04	22.95	23.02	22.20	21.40	20.87	20.47	20.18	NM	21.51	20.47	NM	20.10	NM	NM	NM	21.00	NM	NM	NM	NM	NM	NM	
RR-22	21.92	Shallow	16.55	16.27	15.72	14.97	14.07	13.68	13.57	13.40	NM	13.30	13.09	NM	12.86	NM	13.02	12.82	13.29	NM	NM	NM	NM	NM	NM	
AS511-1	26.34	Shallow	23.16	22.12	21.24	20.21	19.08	18.71	18.56	18.34	NM	18.46	18.14	NM	17.89	NM	NM	NM	19.01	NM	NM	NM	NM	NM	NM	
AS511-2	26.26	Shallow	22.98	22.07	20.44	20.22	19.20	18.79	18.63	18.36	NM	18.37	18.09	NM	17.86	NM	NM	NM	18.68	NM	NM	NM	NM	NM	NM	
AS511-3	26.90	Shallow	22.70	22.50	20.87	19.65	18.60	18.48	18.65	18.65	NM	18.58	18.32	NM	17.10	NM	NM	NM	18.53	NM	NM	NM	NM	NM	NM	
AS511-4	26.97	Shallow	25.79	24.07	24.02	21.66	19.85	19.48	19.35	19.14	NM	18.88	18.72	NM	18.46	NM	NM	NM	19.20	NM	NM	NM	NM	NM	NM	
AS511-5	25.98	Deep	NM	20.68	19.98	19.22	18.23	17.85	17.58	17.28	NM	17.30	17.23	NM	17.06	NM	NM	NM	18.57	NM	NM	NM	NM	NM	NM	
AS511-6	26.20	Deep	22.21	21.40	21.74	19.65	18.60	18.32	18.20	17.44	NM	18.07	17.77	NM	17.55	NM	NM	NM	18.20	NM	NM	NM	NM	NM	NM	
AS511-7	26.89	Deep	22.09	21.77	20.37	19.32	18.33	18.41	18.38	18.24	NM	18.18	17.88	NM	17.69	NM	NM	NM	18.24	NM	NM	NM	NM	NM	NM	
AS511-8	26.79	Shallow	24.21	23.28	23.07	20.49	19.24	19.02	18.94	18.78	NM	18.60	18.37	NM	18.09	NM	NM	NM	18.72	NM	NM	NM	NM	NM	NM	
MW-3	27.01	Shallow	20.83	19.80	19.41	18.49	17.76	17.56	17.46	17.36	NM	17.24	17.06	NM	16.83	NM	NM	NM	17.10	NM	NM	NM	NM	NM	NM	
MW-4	28.10	Shallow	23.97	19.18	18.80	18.00	17.35	17.15	17.06	16.90	NM	16.78	16.59	NM	16.40	NM	NM	NM	16.69	NM	NM	NM	NM	NM	NM	
MW-8	27.70	Shallow	22.60	22.10	20.67	19.56	18.57	18.63	18.70	18.60	NM	18.47	18.15	NM	17.95	NM	NM	NM	18.40	NM	NM	NM	NM	NM	NM	
MW-9	26.44	Shallow	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
MW-10	26.86	Shallow	21.65	20.59	20.05	19.24	18.31	17.98	17.85	17.64	NM	17.65	17.38	NM	17.18	NM	NM	NM	17.76	NM	NM	NM	NM	NM	NM	
MW-11	27.79	Shallow	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
MW-12	26.58	Shallow	21.83	21.35	19.80	19.38	18.35	18.16	18.16	18.01	NM	18.28	17.65	NM	17.43	NM	NM	NM	18.14	NM	NM	NM	NM	NM	NM	
MW-13	26.90	Shallow	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
DW-2	26.62	Deep	NM	24.12	NM	23.46	22.72	22.29	22.12	21.72	NM	22.94	21.65	NM	21.27	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
DW-5	27.07	Deep	NM	21.47	NM	19.62	18.27	18.27	18.25	18.16	NM	17.98	17.90	NM	17.47	NM	NM	NM	19.75	NM	NM	NM	NM	NM	NM	
DW-6	25.40	Deep	18.59	22.88	22.38	21.36	19.87	19.27	19.12	20.90	NM	NM	18.78	NM	18.26	NM	NM	NM	19.69	NM	NM	NM	NM	NM	NM	
RR-1G	InD	Shallow	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
RR-2G	InD	Shallow	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
RR-3G	InD	Shallow	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
RR-4G	InD	Shallow	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	
RR-5G	InD	Shallow	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC</					

⁽¹⁾ Top of casing elevation expressed in feet above/below MSL
MSL: mean sea level
Groundwater elevations corrected for free product as needed by adding (0.8 x product thickness) to uncorrected groundwater elevation

NM: Not measured (e.g., for the indicated date, the well was not accessible, the well was not installed, or the well was not included in gauging program)
NC: Insufficient data to calculate groundwater elevation (e.g., top of casing ellevation datum not available)
InD: Insufficient data or data unavailable

TABLE 3-3
Horizontal Hydraulic Gradients and Average Linear Velocities
Rapid Refueler

Zone	Shallow					Shallow					Shallow					Deep					Deep					Averages for Date	
Well Pair	AS511-1 to RR-10					AS511-3 to MW-3					AS511-4 to MW-4					DW-6 to RR-14					AS511-7 to AS511-5						
Horizontal Distance (feet)	780					312					618					857					389						
Date Measured	Groundwater Elevation (feet MSL)		Flow Direction	Horizontal Gradient i	Linear Velocity (feet/day)	Groundwater Elevation (feet MSL)		Flow Direction	Horizontal Gradient i	Linear Velocity (feet/day)	Groundwater Elevation (feet MSL)		Flow Direction	Horizontal Gradient i	Linear Velocity (feet/day)	Groundwater Elevation (feet MSL)		Flow Direction	Horizontal Gradient i	Linear Velocity (feet/day)	Groundwater Elevation (feet MSL)		Flow Direction	Horizontal Gradient i	Linear Velocity (feet/day)	Horizontal Gradient i	Average Linear Velocity (feet/day)
	AS511-1	RR-10				AS511-3	MW-3				AS511-4	MW-4				DW-6	RR-14				AS511-7	AS511-5					
6/9/1994	NM	15.29				NM	NM				NM	NM				NM	14.93				NM	NM					
9/29/1994	NM	15.80				NM	NM				NM	17.38				NM	NM				NM	NM					
3/10/1995	18.24	NM				19.65	NM				19.99	NM				NM	NM				18.83	18.43	ENE	0.0010	InD	0.0010	
10/4/1997	18.54	15.51	NE	0.0039	0.220	18.12	19.19	SE	0.0034	0.194	19.52	16.62	NW	0.0047	0.266	20.17	14.92	NNE	0.0061	InD	18.18	17.87	ENE	0.0008	InD	0.0038	0.227
4/15/2004	20.41	16.10	NE	0.0055	0.313	20.18	18.39	NW	0.0057	0.325	22.34	17.97	NW	0.0071	0.401	NM	15.99				20.10	19.33	ENE	0.0020	InD	0.0051	0.346
4/22/2004	20.41	16.10	NE	0.0055	0.313	20.16	18.36	NW	0.0058	0.327	22.33	17.95	NW	0.0071	0.402	NM	15.94				20.09	19.32	ENE	0.0020	InD	0.0051	0.347
4/27/2004	19.72	16.08	NE	0.0047	0.264	20.22	18.30	NW	0.0062	0.349	21.03	17.87	NW	0.0051	0.290	20.52	15.91	NNE	0.0054	InD	19.67	18.68	ENE	0.0025	InD	0.0048	0.301
5/5/2004	22.02	16.85	NE	0.0066	0.376	21.57	19.31	NW	0.0072	0.410	24.19	19.06	NW	0.0083	0.470	23.42	16.80	NNE	0.0077	InD	21.47	20.01	ENE	0.0038	InD	0.0067	0.419
5/12/2004	20.79	16.35	NE	0.0057	0.323	21.47	18.98	NW	0.0080	0.452	22.87	18.51	NW	0.0071	0.400	21.81	16.15	NNE	0.0066	InD	20.74	19.70	ENE	0.0027	InD	0.0060	0.392
5/18/2004	20.09	16.13	NE	0.0051	0.288	20.92	18.65	NW	0.0073	0.412	21.93	18.18	NW	0.0061	0.344	20.92	15.79	NNE	0.0060	InD	20.18	19.09	ENE	0.0028	InD	0.0054	0.348
5/25/2004	19.64	16.02	NE	0.0046	0.263	20.54	18.43	NW	0.0068	0.383	21.18	17.93	NW	0.0053	0.298	NM	15.64				19.80	18.67	ENE	0.0029	InD	0.0049	0.315
6/1/2004	19.24	15.86	NE	0.0043	0.246	19.91	18.10	NW	0.0058	0.329	20.39	17.60	NW	0.0045	0.256	19.82	15.57	NNE	0.0050	InD	19.23	17.26	ENE	0.0051	InD	0.0049	0.277
6/14/2004	18.92	15.73	NE	0.0041	0.232	19.37	17.76	NW	0.0052	0.292	19.72	17.30	NW	0.0039	0.222	19.37	15.50	NNE	0.0045	InD	18.77	18.00	ENE	0.0020	InD	0.0039	0.249
6/24/2004	NM	NM				NM	NM				NM	NM				NM	NM				NM	NM					
6/29/2004	18.82	15.64	NE	0.0041	0.231	19.00	17.48	NW	0.0049	0.276	19.32	17.14	NW	0.0035	0.200	19.26	15.47	NNE	0.0044	InD	18.44	17.85	ENE	0.0015	InD	0.0037	0.236
7/6/2004	18.52	15.53	NE	0.0038	0.217	18.35	17.43	NW	0.0029	0.167	19.17	17.00	NW	0.0035	0.199	18.85	15.22	NNE	0.0042	InD	18.87	17.73	ENE	0.0029	InD	0.0035	0.194
7/12/2004	18.69	15.67	NE	0.0039	0.219	18.90	17.53	NW	0.0044	0.249	19.29	17.07	NW	0.0036	0.204	19.26	15.72	NNE	0.0041	InD	18.47	19.53	WSW	0.0027	InD	0.0037	0.224
7/29/2004	NM	NM				NM	NM				NM	NM				NM	NM				NM	NM					
8/2/2004	NM	16.03				19.38	NM				20.42	17.40	NW	0.0049	0.277	19.80	16.62	NNE	0.0037	InD	19.04	NM				0.0043	0.277
8/10/2004	20.74	16.28	NE	0.0057	0.324	20.52	21.62	SE	0.0035	0.200	22.64	18.10	NW	0.0073	0.416	19.97	16.21	NNE	0.0044	InD	20.39	19.38	ENE	0.0026	InD	0.0047	0.313
8/16/2004	NM	17.44				21.68	NM				26.46	19.63	NW	0.0111	0.626	NM	17.57				23.51	NM				0.0111	0.626
8/23/2004	21.94	17.23	NE	0.0060	0.342	22.25	19.71	NW	0.0081	0.461	24.67	19.19	NW	0.0089	0.502	23.80	16.79	NNE	0.0082	InD	21.87	21.04	ENE	0.0021	InD	0.0067	0.435
9/2/2004	22.14	16.76	NE	0.0069	0.391	21.90	19.54	NW	0.0076	0.429	24.57	19.02	NW	0.0090	0.509	NM	16.75				21.64	20.48	ENE	0.0030	InD	0.0066	0.443
9/7/2004	NM	NM				NM	NM				NM	NM				NM	NM				NM	NM					
9/17/2004	23.16	17.68	NE	0.0070	0.398	22.70	20.83	NW	0.0060	0.340	25.79	23.97	NW	0.0029	0.167	18.59	17.28	NNE	0.0015	InD	22.09	NM				0.0044	0.302
9/23/2004	22.12	16.73	NE	0.0069	0.392	22.50	19.80	NW	0.0087	0.490	24.07	19.18	NW	0.0079	0.448	22.88	16.67	NNE	0.0072	InD	21.77	20.68	ENE	0.0028	InD	0.0067	0.443
9/28/2004	21.24	16.70	NE	0.0058	0.330	20.87	19.41	NW	0.0047	0.265	24.02	18.80	NW	0.0084	0.479	22.38	16.56	NNE	0.0068	InD	20.37	19.98	ENE	0.0010	InD	0.0053	0.358
10/7/2004	20.21	16.16	NE	0.0052	0.294	19.65	18.49	NW	0.0037	0.211	21.66	18.00	NW	0.0059	0.336	21.36	16.08	NNE	0.0062	InD	19.32	19.22	ENE	0.0003	InD	0.0043	0.280
10/21/2004	19.08	15.85	NE	0.0041	0.235	18.60	17.76	NW	0.0027	0.153	19.85	17.35	NW	0.0040	0.229	19.87	15.69	NNE	0.0049	InD	18.33	18.23	ENE	0.0003	InD	0.0032	0.205
10/28/2004	18.71	15.70	NE	0.0039	0.219	18.48	17.56	NW	0.0029	0.167	19.48	17.15	NW	0.0038	0.214	19.27	15.50	NNE	0.0044	InD	18.41	17.85	ENE	0.0014	InD	0.0033	0.200
11/4/2004	18.56	15.67	NE	0.0037	0.210	18.65	17.46	NW	0.0038	0.216	19.35	17.06	NW	0.0037	0.210	19.12	15.42	NNE	0.0043	InD	18.38	17.58	ENE	0.0021	InD	0.0035	0.212
11/12/2004	18.34	15.56	NE	0.0036	0.202	18.65	17.36	NW	0.0041	0.234	19.14	16.90	NW	0.0036	0.205	20.90	15.30	NNE	0.0065	InD	18.24	17.28	ENE	0.0025	InD	0.0041	0.214
11/18/2004	NM	NM				NM	NM				NM	NM				NM	NM				NM	NM					
12/1/2004	18.46	15.54	NE	0.0037	0.212	18.58	17.24	NW	0.0043	0.243	18.88	16.78	NW	0.0034	0.193	NM	15.49				18.18	17.30	ENE	0.0023	InD	0.0034	0.216
12/8/2004																											

TABLE 3-4
Vertical Hydraulic Gradients
Rapid Refueler

Well Pair	RR-11	to	RR-14	RR-11	to	RR-15	RR-15	to	RR-14	AS511-1	to	AS511-5	AS511-2	to	AS511-6	AS511-3	to	AS511-7	Average for Date i	
Zone	Shallow		Deep	Shallow		Intermediate	Intermediate		Deep	Shallow		Deep	Shallow		Deep	Shallow		Deep		
Screen Midpoint Distance (feet)	37.4			8.2			29.3			37.8			35.1			37.5				
Date Measured	Groundwater Elevation (feet MSL) RR-11 : RR-14		Vertical Gradient i	Groundwater Elevation (feet MSL) RR-11 : RR-15		Vertical Gradient i	Groundwater Elevation (feet MSL) RR-15 : RR-14		Vertical Gradient i	Groundwater Elevation (feet MSL) AS511-1 : AS511-5		Vertical Gradient i	Groundwater Elevation (feet MSL) AS511-2 : AS511-6		Vertical Gradient i	Groundwater Elevation (feet MSL) AS511-3 : AS511-7		Vertical Gradient i		
6/9/1994	14.24	14.93	-0.018	14.24	14.40	-0.020	14.40	14.93	-0.018	NM	NM		NM	NM		NM	NM		-0.019	
9/29/1994	14.65	NM		14.65	NM		NM	NM		NM	NM		NM	NM		NM	NM			
3/10/1995	NM	NM		NM	NM		NM	NM		18.24	18.43	-0.005	18.91	18.58	0.009	19.65	18.83	0.022	0.009	
10/4/1997	14.98	14.92	0.002	14.98	14.99	-0.001	14.99	14.92	0.002	18.54	17.87	0.018	18.19	18.11	0.002	18.12	18.18	-0.002	0.004	
4/15/2004	15.90	15.99	-0.002	15.90	15.59	0.038	15.59	15.99	-0.014	20.41	19.33	0.029	20.55	20.07	0.014	20.18	20.10	0.002	0.011	
4/22/2004	15.88	15.94	-0.002	15.88	15.56	0.039	15.56	15.94	-0.013	20.41	19.32	0.029	20.32	19.75	0.016	20.16	20.09	0.002	0.012	
4/27/2004	15.28	15.91	-0.017	15.28	15.30	-0.002	15.30	15.91	-0.021	19.72	18.68	0.028	19.93	19.39	0.015	20.22	19.67	0.015	0.003	
5/5/2004	15.93	16.80	-0.023	15.93	15.92	0.001	15.92	16.80	-0.030	22.02	20.01	0.053	22.16	21.22	0.027	21.57	21.47	0.003	0.005	
5/12/2004	15.38	16.15	-0.021	15.38	15.40	-0.002	15.40	16.15	-0.026	20.79	19.70	0.029	21.05	20.42	0.018	21.47	20.74	0.019	0.003	
5/18/2004	15.11	15.79	-0.018	15.11	15.11	No Flow	15.11	15.79	-0.023	20.09	19.09	0.026	20.35	19.82	0.015	20.92	20.18	0.020	0.004	
5/25/2004	15.04	15.64	-0.016	15.04	15.03	0.001	15.03	15.64	-0.021	19.64	18.67	0.026	19.91	19.40	0.015	20.54	19.80	0.020	0.004	
6/1/2004	15.00	15.57	-0.015	15.00	15.00	No Flow	15.00	15.57	-0.019	19.24	17.26	0.052	19.52	18.98	0.015	19.91	19.23	0.018	0.010	
6/14/2004	15.00	15.50	-0.013	15.00	14.98	0.002	14.98	15.50	-0.018	18.92	18.00	0.024	19.03	18.57	0.013	19.37	18.77	0.016	0.004	
6/24/2004	NM	NM		NM	NM		NM	NM		NM	NM		NM	NM		NM	NM			
6/29/2004	14.93	15.47	-0.014	14.93	14.97	-0.005	14.97	15.47	-0.017	18.82	17.85	0.026	18.76	18.35	0.012	19.00	18.44	0.015	0.003	
7/6/2004	14.81	15.22	-0.011	14.81	14.80	0.001	14.80	15.22	-0.014	18.52	17.73	0.021	18.56	18.15	0.012	18.35	18.87	-0.014	-0.001	
7/12/2004	15.11	15.72	-0.016	15.11	15.13	-0.002	15.13	15.72	-0.020	18.69	19.53	-0.022	18.79	18.40	0.011	18.90	18.47	0.011	-0.006	
7/29/2004	NM	NM		NM	NM		NM	NM		NM	NM		NM	NM		NM	NM			
8/2/2004	15.11	16.62	-0.040	15.11	15.12	-0.001	15.12	16.62	-0.051	NM	NM		19.40	19.00	0.011	19.38	19.04	0.009	-0.014	
8/10/2004	15.56	16.21	-0.017	15.56	15.53	0.004	15.53	16.21	-0.023	20.74	19.38	0.036	20.88	20.25	0.018	20.52	20.39	0.003	0.003	
8/16/2004	16.52	17.57	-0.028	16.52	16.34	0.022	16.34	17.57	-0.042	NM	NM		23.01	21.95	0.030	21.68	23.51	-0.049	-0.013	
8/23/2004	16.03	16.79	-0.020	16.03	15.81	0.027	15.81	16.79	-0.034	21.94	21.04	0.024	22.23	21.50	0.021	22.25	21.87	0.010	0.005	
9/2/2004	15.80	16.75	-0.025	15.80	15.85	-0.006	15.85	16.75	-0.031	22.14	20.48	0.044	22.32	21.43	0.025	21.90	21.64	0.007	0.002	
9/7/2004	NM	NM		NM	NM		NM	NM		NM	NM		NM	NM		NM	NM			
9/17/2004	16.42	17.28	-0.023	16.42	16.20	0.027	16.20	17.28	-0.037	23.16	NM		22.98	22.21	0.022	22.70	22.09	0.016	0.001	
9/23/2004	15.73	16.67	-0.025	15.73	15.78	-0.006	15.78	16.67	-0.030	22.12	20.68	0.038	22.07	21.40	0.019	22.50	21.77	0.019	0.002	
9/28/2004	15.70	16.56	-0.023	15.70	15.75	-0.006	15.75	16.56	-0.028	21.24	19.98	0.033	20.44	21.74	-0.037	20.87	20.37	0.013	-0.008	
10/7/2004	15.41	16.08	-0.018	15.41	15.43	-0.002	15.43	16.08	-0.022	20.21	19.22	0.026	20.22	19.65	0.016	19.65	19.32	0.009	0.001	
10/21/2004	15.16	15.69	-0.014	15.16	14.18	0.120	14.18	15.69	-0.052	19.08	18.23	0.022	19.20	18.60	0.017	18.60	18.33	0.007	0.017	
10/28/2004	15.06	15.50	-0.012	15.06	15.08	-0.002	15.08	15.50	-0.014	18.71	17.85	0.023	18.79	18.32	0.013	18.48	18.41	0.002	0.002	
11/4/2004	15.01	15.42	-0.011	15.01	15.02	-0.001	15.02	15.42	-0.014	18.56	17.58	0.026	18.63	18.20	0.012	18.65	18.38	0.007	0.003	
11/12/2004	14.96	15.30	-0.009	14.96	14.95	0.001	14.95	15.30	-0.012	18.34	17.28	0.028	18.36	17.44	0.026	18.65	18.24	0.011	0.008	
11/18/2004	NM	NM		NM	NM		NM	NM		NM	NM		NM	NM		NM	NM			
12/1/2004	15.20	15.49	-0.008	15.20	15.15	0.006	15.15	15.49	-0.012	18.46	17.30	0.031	18.37	18.07	0.009	18.58	18.18	0.011	0.006	
12/8/2004	14.99	15.30	-0.008	14.99	15.00	-0.001	15.00	15.30	-0.010	18.14	17.23	0.024	18.09	17.77	0.009	18.32	17.88	0.012	0.004	
12/17/2004	NM	NM		NM	NM		NM	NM		NM	NM		NM	NM		NM	NM			
12/22/2004	14.90	15.12	-0.006	14.90	14.90	No Flow	14.90	15.12	-0.008	17.89	17.06	0.022	17.86	17.55	0.009	17.10	17.69	-0.016	0.000	
12/29/2004	NM	NM		NM	NM		NM	NM		NM	NM		NM	NM		NM	NM			
1/5/2005	NM	NM		NM	NM		NM	NM		NM	NM		NM	NM		NM	NM			
1/12/2005	NM	NM		NM	NM		NM	NM		NM	NM		NM	NM		NM	NM			
2/2/2005	15.35	15.72	-0.010	15.35	15.31	0.005	15.31	15.72	-0.014	19.01	18.57	0.012	18.68	18.20	0.014	18.53	18.24	0.008	0.002	
2/17/2005	NM	NM		NM	NM		NM	NM		NM	NM		NM	NM		NM	NM			
2/23/2005	NM	NM		NM	NM		NM	NM		NM	NM		NM	NM		NM	NM			
3/4/2005	NM	NM		NM	NM		NM	NM		NM	NM		NM	NM		NM	NM			
3/11/2005	NM	NM		NM	NM		NM	NM		NM	NM		NM	NM		NM	NM			
3/24/2005	NM	NM		NM	NM		NM	NM		NM	NM		NM	NM		NM	NM			
3/31/2005	NM	NM		NM	NM		NM	NM		NM	NM		NM	NM		NM	NM			
Pair Average			-0.016			0.008			-0.022			0.026			0.014			0.007		
Shallow to Intermediate Average			0.008	(dimensionless)																
Shallow to Deep Average			-0.016	(dimensionless)																
Intermediate to Deep Average			-0.022	(dimensionless)																
Blank entries indicate there are insufficient gauging data for to calculate vertical gradient																				
MSL - mean sea level																				
NM: Not measured																				

TABLE 4-1 (page 1 of 2)
Product Thickness Data Over Time
Rapid Refueler

Location	Top of Casing Elevation ⁽¹⁾	Screen Zone	Product Thickness (feet)																							
			6/9/1994	9/29/1994	3/10/1995	10/4/1997	4/15/2004	4/22/2004	4/27/2004	5/5/2004	5/12/2004	5/18/2004	5/25/2004	6/1/2004	6/14/2004	6/24/2004	6/29/2004	7/6/2004	7/12/2004	7/29/2004	8/2/2004	8/10/2004	8/16/2004	8/23/2004	9/2/2004	9/7/2004
RR-1	24.31	Shallow	--	--	NM	--	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
RR-2	19.33	Shallow	--	--	NM	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
RR-3	19.10	Shallow	--	--	NM	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
RR-4	23.34	Shallow	--	--	NM	--	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
RR-5	22.92	Shallow	--	--	NM	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
RR-6	20.52	Shallow	--	--	NM	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
RR-7	22.68	Shallow	--	--	NM	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
RR-8	23.41	Shallow	--	NM	NM	--	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
RR-9	25.93	Shallow	--	--	NM	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
RR-10	22.48	Shallow	--	--	NM	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
RR-11	21.73	Shallow	--	--	NM	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
RR-12	21.73	Shallow	--	--	NM	--	0.34	0.35	2.53	0.33	3.68	4.54	4.68	3.52	2.70	2.92	2.47	4.23	0.72	3.33	2.73	1.40	0.06	0.05	0.04	0.60
RR-13	23.46	Deep	--	--	NM	--	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
RR-14	21.82	Deep	--	NM	NM	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
RR-15	21.80	Intermediate	--	NM	NM	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
RR-16	20.76	Shallow	NM	NM	NM	2.02	0.82	0.82	0.90	1.26	0.91	0.83	0.63	0.60	0.27	--	0.18	0.17	0.08	--	--	--	0.25	0.32	--	0.32
RR-17	InD	Shallow	NM	NM	NM	NM	NM	NM	NM	NM	NM	--	NM	NM	--	NM	--	--	--	NM	--	--	--	--	--	NM
RR-18	21.69	Shallow	NM	NM	NM	1.29	3.17	3.23	--	3.54	3.95	3.90	3.40	2.00	1.15	1.29	1.63	2.12	1.29	2.08	1.59	1.43	2.24	2.74	2.33	1.68
RR-19	26.09	Shallow	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
RR-20	26.68	Shallow	NM	NM	NM	NM	NM	NM	0.08	--	0.24	0.32	--	0.13	2.74	NM	3.37	6.26	1.98	6.30	2.91	0.50	0.40	1.75	0.76	0.64
RR-21	26.00	Shallow	NM	NM	NM	NM	NM	NM	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
RR-22	21.92	Shallow	NM	NM	NM	0.13	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
AS511-1	26.34	Shallow	NM	NM	--	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	NM	--	NM	--	--	NM
AS511-2	26.26	Shallow	NM	NM	--	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
AS511-3	26.90	Shallow	NM	NM	--	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
AS511-4	26.97	Shallow	NM	NM	--	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
AS511-5	25.98	Deep	NM	NM	--	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	NM	--	NM	--	--	NM
AS511-6	26.20	Deep	NM	NM	--	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
AS511-7	26.89	Deep	NM	NM	--	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
AS511-8	26.79	Shallow	NM	NM	--	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
MW-3	27.01	Shallow	NM	NM	NM	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	NM	--	NM	--	--	NM
MW-4	28.10	Shallow	NM	--	NM	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
MW-8	27.70	Shallow	NM	NM	NM	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	NM	--	--	--	--	NM
MW-9	26.44	Shallow	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-10	26.86	Shallow	NM	0.88	NM	2.57	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
MW-11	27.79	Shallow	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-12	26.58	Shallow	NM	NM	NM	--	--	--	--	--	--	--	--	--	0.04	0.04	--	--	--	NM	--	--	--	--	--	NM
MW-13	26.90	Shallow	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	--	NM	NM	NM	NM
DW-2	26.62	Deep	NM	NM	NM	--	NM	NM	--	NM	--	--	--	--	--	NM	NM	--	NM	NM	NM	--	NM	NM	NM	NM
DW-5	27.07	Deep	NM	NM	NM	--	--	--	--	--	--	--	NM	--	--	NM	NM	--	NM	NM	NM	--	NM	--	NM	NM
DW-6	25.40	Deep	NM	NM	NM	--	NM	NM	--	--	--	--	NM	--	--	NM	--	--	--	NM	--	--	NM	--	NM	NM
RR-1G	InD	Shallow	NM	NM	NM	NM	0.28	0.28	NM	1.38	0.10	0.35	3.33	1.38	0.25	0.19	0.37	0.05	0.37	0.03	--	--	1.66	0.01	0.62	0.25
RR-2G	InD	Shallow	NM	NM	NM	NM	--	--	NM	--	--	--	--	--	--	--	--	0.02	--	--	--	--	--	--	--	NM
RR-3G	InD	Shallow	NM	NM	NM	NM	--	--	NM	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
RR-4G	InD	Shallow	NM	NM	NM	NM	--	--	NM	--	--	--	--	--	--	--	--	--	--	0.01	--	--	--	--	--	NM
RR-5G	InD	Shallow	NM	NM	NM	NM	--	--	NM	0.52	0.18	0.45	--	0.46	0.01	0.02	--	0.04	--	--	--	0.01	0.13	0.03	--	0.05
RR-6G	InD	Shallow	NM	NM	NM	NM	--	NM	NM	--	--	--	--	--	--	--	--	--	--	NM	--	NM	--	--	--	NM

⁽¹⁾ Top of casing elevation expressed in feet above/below MSL
MSL - mean sea level

--": indicates no measurable product detected
NM: not measured (e.g., for the indicated date, the well was not accessible, the well was not installed, or the well was not included in gauging program)
InD: insufficient data or data unavailable

TABLE 4-1 (page 2 of 2)
Product Thickness Data Over Time
Rapid Refueler

Location	Top of Casing Elevation ⁽¹⁾	Screen Zone	Product Thickness (feet)																							
			9/17/2004	9/23/2004	9/28/2004	10/7/2004	10/21/2004	10/28/2004	11/4/2004	11/12/2004	11/18/2004	12/1/2004	12/8/2004	12/17/2004	12/22/2004	12/29/2004	1/5/2005	1/12/2005	2/2/2005	2/17/2005	2/23/2005	3/4/2005	3/11/2005	3/24/2005	3/31/2005	
RR-1	24.31	Shallow	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
RR-2	19.33	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
RR-3	19.10	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
RR-4	23.34	Shallow	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
RR-5	22.92	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
RR-6	20.52	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
RR-7	22.68	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
RR-8	23.41	Shallow	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
RR-9	25.93	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
RR-10	22.48	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
RR-11	21.73	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
RR-12	21.73	Shallow	0.60	0.08	--	1.29	--	3.86	--	2.70	2.35	2.25	2.58	2.27	0.94	0.79	2.09	2.11	2.02	2.96	1.80	0.52	1.78	0.79	--	
RR-13	23.46	Deep	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
RR-14	21.82	Deep	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
RR-15	21.80	Intermediate	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
RR-16	20.76	Shallow	0.36	0.33	0.32	0.38	0.04	0.07	0.07	0.01	--	--	--	--	--	0.00	NM	--	--	NM	NM	NM	--	--	--	
RR-17	InD	Shallow	--	--	--	--	--	--	--	0.01	--	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
RR-18	21.69	Shallow	--	--	2.77	2.36	2.16	1.25	1.94	2.30	2.50	2.48	2.87	2.05	1.08	1.95	1.53	1.67	1.63	1.57	2.29	2.25	2.39	2.23	0.01	
RR-19	26.09	Shallow	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
RR-20	26.68	Shallow	--	1.70	3.87	1.74	1.05	1.07	3.32	4.84	5.30	4.92	4.69	3.86	1.98	4.53	5.44	1.93	1.63	0.99	1.58	1.92	1.13	1.65	0.89	
RR-21	26.00	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
RR-22	21.92	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	0.01	--	--	NM	NM	NM	NM	NM	NM	
AS511-1	26.34	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
AS511-2	26.26	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
AS511-3	26.90	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
AS511-4	26.97	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
AS511-5	25.98	Deep	NM	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
AS511-6	26.20	Deep	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
AS511-7	26.89	Deep	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
AS511-8	26.79	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
MW-3	27.01	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
MW-4	28.10	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
MW-8	27.70	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
MW-9	26.44	Shallow	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
MW-10	26.86	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
MW-11	27.79	Shallow	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
MW-12	26.58	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
MW-13	26.90	Shallow	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
DW-2	26.62	Deep	NM	--	NM	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
DW-5	27.07	Deep	NM	--	NM	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
DW-6	25.40	Deep	--	--	--	--	--	--	--	--	NM	NM	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
RR-1G	InD	Shallow	0.51	--	0.05	0.02	0.03	0.39	0.43	0.42	0.42	0.41	0.38	--	0.01	0.03	0.02	--	0.19	0.07	0.15	0.02	0.37	0.11	--	
RR-2G	InD	Shallow	--	--	--	--	--	--	--	0.05	0.04	0.09	0.11	0.18	0.21	0.21	0.23	--	--	--	--	NM	--	--	--	
RR-3G	InD	Shallow	--	--	--	--	--	--	--	--	NM	--	--	--	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
RR-4G	InD	Shallow	--	--	--	--	--	--	--	--	NM	--	--	--	--	NM	NM	--	--	--	NM	NM	NM	--	NM	
RR-5G	InD	Shallow	0.07	--	--	0.01	--	0.02	0.02	0.01	0.01	0.08	0.11	0.13	--	NM	0.20	--	--	--	NM	NM	NM	--	NM	
RR-6G	InD	Shallow	--	--	--	--	--	--	--	--	NM	--	--	--	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	

⁽¹⁾ Top of casing elevation expressed in feet above/below MSL
MSL - mean sea level

--": indicates no measurable product detected
NM: not measured (e.g., for the indicated date, the well was not accessible, the well was not installed, or the well was not included in gauging program)
InD: insufficient data or data unavailable

TABLE 4-2
Aggressive Fluid Vapor Recovery Constituent Removal Mass
Rapid Refueler

Month	RR-1G		RR-2G		RR-5G		RR-12		RR-16		RR-18		RR-20		TOTAL	
	Mass (lbs)	Cumm. Mass (lbs)	Mass (lbs)	Cumm. Mass (lbs)	Mass (lbs)	Cumm. Mass (lbs)	Mass (lbs)	Cumm. Mass (lbs)	Mass (lbs)	Cumm. Mass (lbs)	Mass (lbs)	Cumm. Mass (lbs)	Mass (lbs)	Cumm. Mass (lbs)	Mass (lbs)	Cumm. Mass (lbs)
April 2004	0	0	0	0	0	0	6,025	6,025	0	0	0	0	0	0	6,025	6,025
May 2004	2,075	2,075	0	0	2,075	2,075	4,157	10,181	0	0	4,764	4,764	3,586	3,586	16,655	22,680
June 2004	7,122	9,196	0	0	3,983	6,058	18,790	28,971	9,337	9,337	15,927	20,691	4,146	7,732	59,304	81,984
July 2004	4,556	13,752	0	0	0	6,058	12,399	41,370	0	9,337	12,204	32,895	13,900	21,632	43,059	125,043
August 2004	0	13,752	0	0	0	6,058	4,601	45,970	0	9,337	12,353	45,248	4,171	25,803	21,124	146,167
September 2004	8,240	21,992	0	0	0	6,058	4,115	50,085	0	9,337	4,185	49,432	4,169	29,972	20,709	166,877
October 2004	0	21,992	0	0	0	6,058	4,131	54,216	3,120	12,457	8,451	57,883	13,389	43,361	29,090	195,967
November 2004	2,250	24,242	0	0	0	6,058	4,429	58,645	0	12,457	3,837	61,720	4,370	47,731	14,886	210,853
December 2004	2,136	26,378	0	0	0	6,058	11,050	69,695	0	12,457	11,739	73,459	12,005	59,737	36,930	247,783
January 2005	0	26,378	2,245	2,245	0	6,058	6,130	75,825	0	12,457	11,159	84,618	10,764	70,501	30,298	278,081
February 2005	3,426	29,804	1,655	3,900	2,097	8,155	10,458	86,283	0	12,457	14,025	98,643	14,552	85,053	46,213	324,294
March 2005	2,279	32,083	0	3,900	0	8,155	9,535	95,818	0	12,457	12,107	110,750	10,065	95,119	33,987	358,282

lbs: pounds

Cumm. Mass: cumulative mass

APPENDIX A

MONITORING WELL GAUGING DATA

HISTORICAL AND CURRENT
PROGRAM GAUGING DATA

TABLE A-1 (page 1 of 2)
Depth to Groundwater Data Over Time
Rapid Refueler

Location	Top of Casing Elevation ⁽¹⁾	Screen Zone	Depth to Water (feet BTOC)																							
			6/9/1994	9/29/1994	3/10/1995	10/4/1997	4/15/2004	4/22/2004	4/27/2004	5/5/2004	5/12/2004	5/18/2004	5/25/2004	6/1/2004	6/14/2004	6/24/2004	6/29/2004	7/6/2004	7/12/2004	7/29/2004	8/2/2004	8/10/2004	8/16/2004	8/23/2004	9/2/2004	9/7/2004
RR-1	24.31	Shallow	6.31	4.33	NM	4.42	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
RR-2	19.33	Shallow	5.72	5.15	NM	4.77	4.18	4.20	4.99	3.75	4.80	5.05	5.26	5.31	5.39	NM	5.35	5.50	4.80	NM	4.85	4.80	2.82	4.30	3.50	NM
RR-3	19.10	Shallow	5.69	5.45	NM	5.07	5.06	5.08	5.32	4.82	5.21	5.40	5.47	5.51	5.53	NM	5.50	5.57	5.27	NM	5.35	5.32	4.40	4.95	4.86	NM
RR-4	23.34	Shallow	9.10	8.46	NM	8.56	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
RR-5	22.92	Shallow	8.04	7.49	NM	7.70	7.00	7.01	7.15	6.25	6.87	7.13	7.24	7.41	7.56	NM	7.65	7.73	7.61	NM	7.20	6.93	5.63	6.24	6.42	NM
RR-6	20.52	Shallow	4.47	4.08	NM	4.55	5.75	5.75	4.00	3.14	3.75	3.94	4.03	4.16	4.32	NM	4.20	4.53	3.93	NM	4.10	4.07	1.98	3.23	2.80	NM
RR-7	22.68	Shallow	7.04	6.66	NM	7.01	6.37	6.39	6.48	5.91	6.24	6.41	6.44	6.58	6.72	NM	6.73	6.87	6.62	NM	6.60	6.27	5.32	5.82	5.78	NM
RR-8	23.41	Shallow	7.00	NM	NM	7.06	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
RR-9	25.93	Shallow	9.17	8.61	NM	9.26	8.18	8.28	8.38	7.29	7.82	8.12	8.33	8.57	8.78	NM	8.89	9.07	8.90	NM	8.29	8.16	6.51	6.77	6.90	NM
RR-10	22.48	Shallow	7.19	6.68	NM	6.97	6.38	6.38	6.40	5.63	6.13	6.35	6.46	6.62	6.75	NM	6.84	6.95	6.81	NM	6.45	6.20	5.04	5.25	5.72	NM
RR-11	21.73	Shallow	7.49	7.08	NM	6.75	5.83	5.85	6.45	5.80	6.35	6.62	6.69	6.73	6.73	NM	6.80	6.92	6.62	NM	6.62	6.17	5.21	5.70	5.93	NM
RR-12	21.73	Shallow	6.55	6.20	NM	5.63	4.81	4.83	7.06	4.45	8.02	9.40	9.73	8.62	7.80	7.75	7.42	9.71	5.51	8.32	7.91	5.84	3.81	4.00	4.05	4.65
RR-13	23.46	Deep	9.17	7.12	NM	8.85	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
RR-14	21.82	Deep	6.89	NM	NM	6.90	5.83	5.88	5.91	5.02	5.67	6.03	6.18	6.25	6.32	NM	6.35	6.60	6.10	NM	5.20	5.61	4.25	5.03	5.07	NM
RR-15	21.80	Intermediate	7.40	NM	NM	6.81	6.21	6.24	6.50	5.88	6.40	6.69	6.77	6.80	6.82	NM	6.83	7.00	6.67	NM	6.68	6.27	5.46	5.99	5.95	NM
RR-16	20.76	Shallow	NM	NM	NM	10.42	8.45	8.46	8.78	8.02	8.34	8.53	8.55	8.71	8.63	8.33	8.58	9.87	8.58	8.22	8.25	7.78	6.73	7.30	6.92	7.42
RR-17	InD	Shallow	NM	NM	NM	NM	NM	NM	NM	NM	NM	2.93	NM	NM	2.18	NM	2.38	3.45	2.18	NM	1.40	2.88	1.75	1.10	1.69	NM
RR-18	21.69	Shallow	NM	NM	NM	10.26	10.70	10.77	11.38	9.94	10.96	11.30	11.18	10.28	9.80	10.00	10.33	10.90	10.05	10.20	9.92	9.01	8.71	9.26	9.01	8.60
RR-19	26.09	Shallow	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
RR-20	26.68	Shallow	NM	NM	NM	NM	NM	NM	7.88	6.88	7.15	7.65	6.71	8.35	10.88	NM	11.20	14.19	10.40	13.70	11.10	8.30	7.03	8.35	7.66	7.72
RR-21	26.00	Shallow	NM	NM	NM	NM	NM	NM	4.70	3.35	3.92	4.41	4.82	4.95	4.62	NM	4.22	4.82	4.90	NM	3.53	3.32	1.42	2.90	2.13	NM
RR-22	21.92	Shallow	NM	NM	NM	8.88	7.30	7.31	7.40	6.44	6.54	6.95	7.23	7.60	8.01	NM	8.29	8.32	8.35	NM	7.85	6.99	6.08	5.81	5.92	NM
AS511-1	26.34	Shallow	NM	NM	8.10	7.80	5.93	5.93	6.62	4.32	5.55	6.25	6.70	7.10	7.42	NM	7.52	7.82	7.65	NM	NM	5.60	NM	4.40	4.20	NM
AS511-2	26.26	Shallow	NM	NM	7.35	8.07	5.71	5.94	6.33	4.10	5.21	5.91	6.35	6.74	7.23	NM	7.50	7.70	7.47	NM	6.86	5.38	3.25	4.03	3.94	NM
AS511-3	26.90	Shallow	NM	NM	7.25	8.78	6.72	6.74	6.68	5.33	5.43	5.98	6.36	6.99	7.53	NM	7.90	8.55	8.00	NM	7.52	6.38	5.22	4.65	5.00	NM
AS511-4	26.97	Shallow	NM	NM	6.98	7.45	4.63	4.64	5.94	2.78	4.10	5.04	5.79	6.58	7.25	NM	7.65	7.80	7.68	NM	6.55	4.33	0.51	2.30	2.40	NM
AS511-5	25.98	Deep	NM	NM	7.55	8.11	6.65	6.66	7.30	5.97	6.28	6.89	7.31	8.72	7.98	NM	8.13	8.25	6.45	NM	NM	6.60	NM	4.94	5.50	NM
AS511-6	26.20	Deep	NM	NM	7.62	8.09	6.13	6.45	6.81	4.98	5.78	6.38	6.80	7.22	7.63	NM	7.85	8.05	7.80	NM	7.20	5.95	4.25	4.70	4.77	NM
AS511-7	26.89	Deep	NM	NM	8.06	8.71	6.79	6.80	7.22	5.42	6.15	6.71	7.09	7.66	8.12	NM	8.45	8.02	8.42	NM	7.85	6.50	3.38	5.02	5.25	NM
AS511-8	26.79	Shallow	NM	NM	7.05	7.93	6.10	6.42	6.48	3.90	5.01	5.80	6.33	6.85	7.42	NM	7.77	7.97	7.88	NM	7.11	5.45	2.37	3.12	3.70	NM
MW-3	27.01	Shallow	NM	NM	NM	7.82	8.62	8.65	8.71	7.70	8.03	8.36	8.58	8.91	9.25	NM	9.53	9.58	9.48	NM	NM	5.39	NM	7.30	7.47	NM
MW-4	28.10	Shallow	NM	10.72	NM	11.48	10.13	10.15	10.23	9.04	9.59	9.92	10.17	10.50	10.80	NM	10.96	11.10	11.03	NM	10.70	10.00	8.47	8.91	9.08	NM
MW-8	27.70	Shallow	NM	NM	NM	9.60	7.62	7.63	7.61	6.44	6.57	7.00	7.35	7.89	8.38	NM	8.73	8.87	8.80	NM	NM	7.33	5.94	5.70	6.01	NM
MW-9	26.44	Shallow	NM	NM	NM	6.26	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-10	26.86	Shallow	NM	7.72	NM	11.27	7.72	7.74	8.01	6.52	7.13	7.62	7.94	8.30	8.64	NM	8.87	9.02	8.90	NM	8.35	7.35	5.26	6.31	5.87	NM
MW-11	27.79	Shallow	NM	NM	NM	9.37	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-12	26.58	Shallow	NM	NM	NM	8.86	7.25	7.37	7.35	5.95	6.43	6.85	7.13	7.59	7.89	8.26	8.05	8.51	8.52	NM	7.60	6.96	5.48	5.50	5.40	NM
MW-13	26.90	Shallow	NM	NM	NM	7.08	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	7.17	NM	NM	NM	NM
DW-2	26.62	Deep	NM	NM	NM	10.33	NM	NM	3.43	NM	2.90	3.32	3.61	3.15	3.76	NM	NM	8.92	NM	NM	NM	7.54	NM	NM	NM	NM
DW-5	27.07	Deep	NM	NM	NM	9.02	7.28	7.30	7.62	5.72	6.60	7.15	NM	7.93	8.28	NM	NM	8.87	NM	NM	NM	5.60	NM	5.50	NM	NM
DW-6	25.40	Deep	NM	N																						

⁽¹⁾ Top of casing elevation expressed in feet above/below MSL
BTOC - below top of casing
MSL - mean sea level

NM - Not measured (e.g., for the indicated date, the well was not accessible, the well was not installed, or the well was not included in gauging program)
InD: Insufficient data or data unavailable

TABLE A-1 (page 2 of 2)
Depth to Groundwater Data Over Time
Rapid Refueler

Location	Top of Casing Elevation ⁽¹⁾	Screen Zone	Depth to Water (feet BTOC)																						
			9/17/2004	9/23/2004	9/28/2004	10/7/2004	10/21/2004	10/28/2004	11/4/2004	11/12/2004	11/18/2004	12/1/2004	12/8/2004	12/17/2004	12/22/2004	12/29/2004	1/5/2005	1/12/2005	2/2/2005	2/17/2005	2/23/2005	3/4/2005	3/11/2005	3/24/2005	3/31/2005
RR-1	24.31	Shallow	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
RR-2	19.33	Shallow	3.70	4.47	4.59	4.91	5.15	5.25	5.32	5.40	NM	5.18	5.35	NM	5.40	NM	NM	NM	4.73	NM	NM	NM	NM	NM	NM
RR-3	19.10	Shallow	4.70	5.02	5.07	5.28	5.30	5.43	5.47	5.61	NM	5.38	5.40	NM	5.45	NM	NM	NM	5.18	NM	NM	NM	NM	NM	NM
RR-4	23.34	Shallow	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
RR-5	22.92	Shallow	5.19	6.43	6.58	7.10	7.38	7.55	7.58	7.68	NM	7.70	7.90	NM	7.98	NM	NM	NM	7.60	NM	NM	NM	NM	NM	NM
RR-6	20.52	Shallow	2.62	3.30	3.34	3.88	4.20	4.40	4.45	4.61	NM	4.68	4.80	NM	4.90	NM	NM	NM	4.48	NM	NM	NM	NM	NM	NM
RR-7	22.68	Shallow	5.38	5.91	6.00	6.35	6.60	6.75	6.78	6.96	NM	7.00	7.13	NM	7.25	NM	NM	NM	6.91	NM	NM	NM	NM	NM	NM
RR-8	23.41	Shallow	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
RR-9	25.93	Shallow	6.01	6.80	7.02	8.02	8.58	8.91	9.04	9.20	NM	9.24	9.42	NM	9.60	NM	NM	NM	9.15	NM	NM	NM	NM	NM	NM
RR-10	22.48	Shallow	4.80	5.75	5.78	6.32	6.63	6.78	6.81	6.92	NM	6.94	7.16	NM	7.25	NM	NM	NM	6.88	NM	NM	NM	NM	NM	NM
RR-11	21.73	Shallow	5.31	6.00	6.03	6.32	6.57	6.67	6.72	6.77	NM	6.53	6.74	NM	6.83	NM	NM	NM	6.38	NM	NM	NM	NM	NM	NM
RR-12	21.73	Shallow	4.30	4.01	4.32	5.81	4.12	8.78	8.20	8.15	7.60	7.22	7.87	7.75	6.80	6.01	7.20	7.50	6.78	7.72	6.60	5.80	6.38	5.35	4.61
RR-13	23.46	Deep	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
RR-14	21.82	Deep	4.54	5.15	5.26	5.74	6.13	6.32	6.40	6.52	NM	6.33	6.52	NM	6.70	NM	NM	NM	6.10	NM	NM	NM	NM	NM	NM
RR-15	21.80	Intermediate	5.60	6.02	6.05	6.37	7.62	6.72	6.78	6.85	NM	6.65	6.80	NM	6.90	NM	NM	NM	6.49	NM	NM	NM	NM	NM	NM
RR-16	20.76	Shallow	6.68	7.33	7.50	8.12	8.32	8.55	8.65	8.74	8.81	8.75	8.95	9.01	9.10	8.93	NM	9.05	8.65	NM	NM	NM	8.28	8.15	7.85
RR-17	InD	Shallow	1.39	1.35	1.42	2.98	2.93	3.75	3.82	4.12	2.86	1.82	3.48	NM	4.30	NM	NM	NM	1.88	NM	NM	NM	NM	NM	NM
RR-18	21.69	Shallow	5.96	6.41	10.42	9.93	10.44	9.95	10.55	11.12	11.35	11.27	11.82	11.18	10.48	11.01	10.51	10.92	10.43	10.44	11.01	11.10	10.62	10.35	8.41
RR-19	26.09	Shallow	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
RR-20	26.68	Shallow	3.23	8.30	10.42	9.45	9.20	9.80	11.80	13.05	13.52	13.12	13.15	12.84	11.48	13.23	14.01	11.39	10.63	10.17	10.58	10.12	9.51	9.90	9.10
RR-21	26.00	Shallow	1.96	3.05	2.98	3.80	4.60	5.13	5.53	5.82	NM	4.49	5.53	NM	5.90	NM	NM	NM	5.00	NM	NM	NM	NM	NM	NM
RR-22	21.92	Shallow	5.37	5.65	6.20	6.95	7.85	8.24	8.35	8.52	NM	8.62	8.83	NM	9.06	NM	8.91	9.10	8.63	NM	NM	NM	NM	NM	NM
AS511-1	26.34	Shallow	3.18	4.22	5.10	6.13	7.26	7.63	7.78	8.00	NM	7.88	8.20	NM	8.45	NM	NM	NM	7.33	NM	NM	NM	NM	NM	NM
AS511-2	26.26	Shallow	3.28	4.19	5.82	6.04	7.06	7.47	7.63	7.90	NM	7.89	8.17	NM	8.40	NM	NM	NM	7.58	NM	NM	NM	NM	NM	NM
AS511-3	26.90	Shallow	4.20	4.40	6.03	7.25	8.30	8.42	8.25	8.25	NM	8.32	8.58	NM	9.80	NM	NM	NM	8.37	NM	NM	NM	NM	NM	NM
AS511-4	26.97	Shallow	1.18	2.90	2.95	5.31	7.12	7.49	7.62	7.83	NM	8.09	8.25	NM	8.51	NM	NM	NM	7.77	NM	NM	NM	NM	NM	NM
AS511-5	25.98	Deep	NM	5.30	6.00	6.76	7.75	8.13	8.40	8.70	NM	8.68	8.75	NM	8.92	NM	NM	NM	7.41	NM	NM	NM	NM	NM	NM
AS511-6	26.20	Deep	3.99	4.80	4.46	6.55	7.60	7.88	8.00	8.76	NM	8.13	8.43	NM	8.65	NM	NM	NM	8.00	NM	NM	NM	NM	NM	NM
AS511-7	26.89	Deep	4.80	5.12	6.52	7.57	8.56	8.48	8.51	8.65	NM	8.71	9.01	NM	9.20	NM	NM	NM	8.65	NM	NM	NM	NM	NM	NM
AS511-8	26.79	Shallow	2.58	3.51	3.72	6.30	7.55	7.77	7.85	8.01	NM	8.19	8.42	NM	8.70	NM	NM	NM	8.07	NM	NM	NM	NM	NM	NM
MW-3	27.01	Shallow	6.18	7.21	7.60	8.52	9.25	9.45	9.55	9.65	NM	9.77	9.95	NM	10.18	NM	NM	NM	9.91	NM	NM	NM	NM	NM	NM
MW-4	28.10	Shallow	4.13	8.92	9.30	10.10	10.75	10.95	11.04	11.20	NM	11.32	11.51	NM	11.70	NM	NM	NM	11.41	NM	NM	NM	NM	NM	NM
MW-8	27.70	Shallow	5.10	5.60	7.03	8.14	9.13	9.07	9.00	9.10	NM	9.23	9.55	NM	9.75	NM	NM	NM	9.30	NM	NM	NM	NM	NM	NM
MW-9	26.44	Shallow	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-10	26.86	Shallow	5.21	6.27	6.81	7.62	8.55	8.88	9.01	9.22	NM	9.21	9.48	NM	9.68	NM	NM	NM	9.10	NM	NM	NM	NM	NM	NM
MW-11	27.79	Shallow	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-12	26.58	Shallow	4.75	5.23	6.78	7.20	8.23	8.42	8.42	8.57	NM	8.30	8.93	NM	9.15	NM	NM	NM	8.44	NM	NM	NM	NM	NM	NM
MW-13	26.90	Shallow	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
DW-2	26.62	Deep	NM	2.50	NM	3.16	3.90	4.33	4.50	4.90	NM	3.68	4.97	NM	5.35	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
DW-5	27.07	Deep	NM	5.60	NM	7.45	8.80	8.80	8.82	8.91	NM	9.09	9.17	NM	9.60	NM	NM	NM	7.32	NM	NM	NM	NM	NM	NM
DW-6	25.40	Deep	6.81	2.52	3.02	4.04	5.53	6.13	6.28	4.50	NM	NM	6.62	NM	7.14	NM	NM	NM	5.71	NM	NM	NM	NM	NM	NM
RR-1G	InD	Shallow	4.82	4.90	5.23	5.77	6.41	6.92	7.05	7.20	7.30	7.20	7.42	7.14	7.20	7.07	7.06	7.17	6.91	6.84	6.85	7.30	6.60	6.31	5.85
RR-2G	InD	Shallow	3.11	3.99	3.49	3.94	4.37	6.44	6.55	6.70	6.72	6.50	6.96	7.04	7.10	6.72	6.93	6.95	6.37	4.71	3.35	NM	4.95	3.38	4.22
RR-3G	InD	Shallow	5.37	5.92	6.20	6.37	6.63	6.77	6.83	6.93	NM	6.98	7.17	7.14	7.25	NM	NM	NM	6.92	NM	NM	NM	NM	NM	NM
RR-4G	InD	Shallow	0.78	1.57	1.12	2.15	3.56	6.80	6.88	7.00	NM	2.50	3.50	6.35	7.03	NM	NM	4.97	2.53	3.34	NM	NM	NM	1.70	NM
RR-5G	InD	Shallow	3.30	4.77	5.06	6.72	7.40	7.64	7.80	7.71	7.82	6.95	8.15	8.26	5.30	NM	8.18	8.11	7.22	7.84	NM	NM	NM	6.15	NM
RR-6G	InD	Shallow	4.99	5.55	5.35	6.38	6.88	7.10	7.20	7.30	NM	7.25	7.47	7.49	7.50	NM	NM	NM	7.03	NM	NM	NM	NM	NM	NM

⁽¹⁾ Top of casing elevation expressed in feet above/below MSL
BTOC - below top of casing
MSL - mean sea level

NM - Not measured (e.g., for the indicated date, the well was not accessible, the well was not installed, or the well was not included in gauging program)
InD: Insufficient data or data unavailable

TABLE A-2 (page 1 of 2)
Depth to Product Data Over Time
Rapid Refueler

Location	Top of Casing Elevation ⁽¹⁾	Screen Zone	Depth to Product (feet BTOC)																							
			6/9/1994	9/29/1994	3/10/1995	10/4/1997	4/15/2004	4/22/2004	4/27/2004	5/5/2004	5/12/2004	5/18/2004	5/25/2004	6/1/2004	6/14/2004	6/24/2004	6/29/2004	7/6/2004	7/12/2004	7/29/2004	8/2/2004	8/10/2004	8/16/2004	8/23/2004	9/2/2004	9/7/2004
RR-1	24.31	Shallow	--	--	NM	--	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
RR-2	19.33	Shallow	--	--	NM	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
RR-3	19.10	Shallow	--	--	NM	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
RR-4	23.34	Shallow	--	--	NM	--	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
RR-5	22.92	Shallow	--	--	NM	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
RR-6	20.52	Shallow	--	--	NM	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
RR-7	22.68	Shallow	--	--	NM	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
RR-8	23.41	Shallow	--	NM	NM	--	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
RR-9	25.93	Shallow	--	--	NM	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
RR-10	22.48	Shallow	--	--	NM	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
RR-11	21.73	Shallow	--	--	NM	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
RR-12	21.73	Shallow	--	--	NM	--	4.47	4.48	4.53	4.12	4.34	4.86	5.05	5.10	5.10	4.83	4.95	5.48	4.79	4.99	5.18	4.44	3.75	3.95	4.01	4.05
RR-13	23.46	Deep	--	--	NM	--	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
RR-14	21.82	Deep	--	NM	NM	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
RR-15	21.80	Intermediate	--	NM	NM	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
RR-16	20.76	Shallow	NM	NM	NM	8.40	7.63	7.64	7.88	6.76	7.43	7.70	7.92	8.11	8.36	--	8.40	9.70	8.50	--	--	--	6.48	6.98	--	7.10
RR-17	InD	Shallow	NM	NM	NM	NM	NM	NM	NM	NM	NM	--	NM	NM	--	NM	--	--	--	NM	--	--	--	--	--	NM
RR-18	21.69	Shallow	NM	NM	NM	8.97	7.53	7.54	--	6.40	7.01	7.40	7.78	8.28	8.65	8.71	8.70	8.78	8.76	8.12	8.33	7.58	6.47	6.52	6.68	6.92
RR-19	26.09	Shallow	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
RR-20	26.68	Shallow	NM	NM	NM	NM	NM	NM	7.80	--	6.91	7.33	--	8.22	8.14	NM	7.83	7.93	8.42	7.40	8.19	7.80	6.63	6.60	6.90	7.08
RR-21	26.00	Shallow	NM	NM	NM	NM	NM	NM	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
RR-22	21.92	Shallow	NM	NM	NM	8.75	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
AS511-1	26.34	Shallow	NM	NM	--	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	NM	--	NM	--	--	NM
AS511-2	26.26	Shallow	NM	NM	--	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
AS511-3	26.90	Shallow	NM	NM	--	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
AS511-4	26.97	Shallow	NM	NM	--	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
AS511-5	25.98	Deep	NM	NM	--	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	NM	--	NM	--	--	NM
AS511-6	26.20	Deep	NM	NM	--	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
AS511-7	26.89	Deep	NM	NM	--	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
AS511-8	26.79	Shallow	NM	NM	--	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
MW-3	27.01	Shallow	NM	NM	NM	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	NM	--	NM	--	--	NM
MW-4	28.10	Shallow	NM	--	NM	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
MW-8	27.70	Shallow	NM	NM	NM	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	NM	--	--	--	--	NM
MW-9	26.44	Shallow	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-10	26.86	Shallow	NM	6.84	NM	8.70	--	--	--	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
MW-11	27.79	Shallow	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-12	26.58	Shallow	NM	NM	NM	--	--	--	--	--	--	--	--	--	7.85	8.22	--	--	--	NM	--	--	--	--	--	NM
MW-13	26.90	Shallow	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	--	NM	NM	NM	NM
DW-2	26.62	Deep	NM	NM	NM	--	NM	NM	--	NM	--	--	--	--	--	NM	NM	--	NM	NM	NM	NM	--	NM	NM	NM
DW-5	27.07	Deep	NM	NM	NM	--	--	--	--	--	--	--	NM	--	--	NM	NM	--	NM	NM	NM	NM	--	NM	--	NM
DW-6	25.40	Deep	NM	NM	NM	--	NM	NM	--	--	--	--	NM	--	--	NM	--	--	--	NM	--	--	NM	--	NM	NM
RR-1G	InD	Shallow	NM	NM	NM	NM	5.35	5.36	NM	4.52	4.98	5.33	5.52	6.12	6.48	6.59	6.56	6.70	6.56	6.22	--	--	4.44	4.84	4.98	5.21
RR-2G	InD	Shallow	NM	NM	NM	NM	--	--	NM	--	--	--	--	--	--	--	--	6.50	--	--	--	--	--	--	--	NM
RR-3G	InD	Shallow	NM	NM	NM	NM	--	--	NM	--	--	--	--	--	--	NM	--	--	--	NM	--	--	--	--	--	NM
RR-4G	InD	Shallow	NM	NM	NM	NM	--	--	NM	--	--	--	--	--	--	--	--	--	--	7.33	--	--	--	--	--	NM
RR-5G	InD	Shallow	NM	NM	NM	NM	--	--	NM	4.08	6.20	6.87	--	7.28	7.59	7.70	--	7.85	--	--	--	6.19	2.91	4.40	--	5.75
RR-6G	InD	Shallow	NM	NM	NM	NM	--	NM	NM	--	--	--	--	--	--	--	--	--	--	NM	--	NM	--	--	--	NM

⁽¹⁾ Top of casing elevation expressed in feet above/below MSL
BTOC - below top of casing
MSL - mean sea level

"--": indicates no measurable product detected
NM - Not measured (e.g., for the indicated date, the well was not accessible, the well was not installed, or the well was not included in gauging program)
InD: Insufficient data or data unavailable

TABLE A-2 (page 2 of 2)
Depth to Product Data Over Time
Rapid Refueler

Location	Top of Casing Elevation ⁽¹⁾	Screen Zone	Depth to Product (feet BTOC)																							
			9/17/2004	9/23/2004	9/28/2004	10/7/2004	10/21/2004	10/28/2004	11/4/2004	11/12/2004	11/18/2004	12/1/2004	12/8/2004	12/17/2004	12/22/2004	12/29/2004	1/5/2005	1/12/2005	2/2/2005	2/17/2005	2/23/2005	3/4/2005	3/11/2005	3/24/2005	3/31/2005	
RR-1	24.31	Shallow	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
RR-2	19.33	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
RR-3	19.10	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
RR-4	23.34	Shallow	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
RR-5	22.92	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
RR-6	20.52	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
RR-7	22.68	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
RR-8	23.41	Shallow	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
RR-9	25.93	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
RR-10	22.48	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
RR-11	21.73	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
RR-12	21.73	Shallow	3.70	3.93	--	4.52	--	4.92	--	5.45	5.25	4.97	5.29	5.48	5.86	5.22	5.11	5.39	4.76	4.76	4.80	5.28	4.60	4.56	--	
RR-13	23.46	Deep	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
RR-14	21.82	Deep	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
RR-15	21.80	Intermediate	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
RR-16	20.76	Shallow	6.32	7.00	7.18	7.74	8.28	8.48	8.58	8.73	--	--	--	--	--	8.93	NM	--	--	NM	NM	NM	--	--	--	
RR-17	InD	Shallow	--	--	--	--	--	--	--	4.11	--	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
RR-18	21.69	Shallow	--	--	7.65	7.57	8.28	8.70	8.61	8.82	8.85	8.79	8.95	9.13	9.40	9.06	8.98	9.25	8.80	8.87	8.72	8.85	8.23	8.12	8.40	
RR-19	26.09	Shallow	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
RR-20	26.68	Shallow	--	6.60	6.55	7.71	8.15	8.73	8.48	8.21	8.22	8.20	8.46	8.98	9.50	8.70	8.57	9.46	9.00	9.18	9.00	8.20	8.38	8.25	8.21	
RR-21	26.00	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
RR-22	21.92	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	8.90	--	--	NM	NM	NM	NM	NM	NM	
AS511-1	26.34	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
AS511-2	26.26	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
AS511-3	26.90	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
AS511-4	26.97	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
AS511-5	25.98	Deep	NM	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
AS511-6	26.20	Deep	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
AS511-7	26.89	Deep	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
AS511-8	26.79	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
MW-3	27.01	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
MW-4	28.10	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
MW-8	27.70	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
MW-9	26.44	Shallow	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
MW-10	26.86	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
MW-11	27.79	Shallow	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
MW-12	26.58	Shallow	--	--	--	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
MW-13	26.90	Shallow	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
DW-2	26.62	Deep	NM	--	NM	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
DW-5	27.07	Deep	NM	--	NM	--	--	--	--	--	NM	--	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
DW-6	25.40	Deep	--	--	--	--	--	--	--	--	NM	NM	--	NM	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
RR-1G	InD	Shallow	4.31	--	5.18	5.75	6.38	6.53	6.62	6.78	6.88	6.79	7.04	--	7.19	7.04	7.04	--	6.72	6.77	6.70	7.28	6.23	6.20	--	
RR-2G	InD	Shallow	--	--	--	--	--	--	--	6.65	6.68	6.41	6.85	6.86	6.89	6.51	6.70	--	--	--	--	NM	--	--	--	
RR-3G	InD	Shallow	--	--	--	--	--	--	--	--	NM	--	--	--	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	
RR-4G	InD	Shallow	--	--	--	--	--	--	--	--	NM	--	--	--	--	NM	NM	--	--	--	NM	NM	NM	--	NM	
RR-5G	InD	Shallow	3.23	--	--	6.71	--	7.62	7.78	7.70	7.81	6.87	8.04	8.13	--	NM	7.98	--	--	--	NM	NM	NM	--	NM	
RR-6G	InD	Shallow	--	--	--	--	--	--	--	--	NM	--	--	--	--	NM	NM	NM	--	NM	NM	NM	NM	NM	NM	

⁽¹⁾ Top of casing elevation expressed in feet above/below MSL
BTOC - below top of casing
MSL - mean sea level

"--": indicates no measurable product detected
NM - Not measured (e.g., for the indicated date, the well was not accessible, the well was not installed, or the well was not included in gauging program)
InD: Insufficient data or data unavailable

GAUGING FIELD DATA SHEETS



Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	4.18
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	5.06
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	7.00
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	5.75
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	6.37
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	8.18
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	6.38
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	5.83
Well ID	RR-12	Depth to Bottom		Depth to Product	4.47	Depth to Water	4.81
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	5.83
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	6.21
Well ID	RR-16	Depth to Bottom		Depth to Product	7.63	Depth to Water	8.45
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-18	Depth to Bottom		Depth to Product	7.53	Depth to Water	10.70
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	7.30
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	5.93
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	5.71
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	6.72
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	4.63
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	6.65
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	6.13
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	6.79
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	6.10
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	8.62
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	10.13
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	7.62
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	7.72
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	7.25
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	7.28
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR1G	Depth to Bottom		Depth to Product	5.35	Depth to Water	5.63
Well ID	RR2G	Depth to Bottom		Depth to Product		Depth to Water	3.80
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	6.45
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	3.35
Well ID	RR5G	Depth to Bottom		Depth to Product		Depth to Water	6.60
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	6.40

Buried
Underwater



Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	4.70
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	5.08
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	7.01
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	5.75
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	6.39
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	8.28
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	6.38
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	5.85
Well ID	RR-12	Depth to Bottom		Depth to Product	4.48	Depth to Water	4.83
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	5.88
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	6.24
Well ID	RR-16	Depth to Bottom		Depth to Product	7.64	Depth to Water	8.46
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-18	Depth to Bottom		Depth to Product	7.54	Depth to Water	10.77
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	7.31
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	5.93
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	5.94
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	6.74
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	4.64
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	6.66
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	6.45
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	6.80
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	6.42
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	8.65
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	10.15
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	7.63
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	7.74
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	7.37
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	7.30
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR1G	Depth to Bottom		Depth to Product	5.36	Depth to Water	5.64
Well ID	RR2G	Depth to Bottom		Depth to Product		Depth to Water	3.81
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	6.46
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	3.36
Well ID	RR5G	Depth to Bottom		Depth to Product		Depth to Water	3.42
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	



Rapid Refueler Water Levels

Date: 4/27/2004

Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	4.99
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	5.32
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	7.15
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	4.00
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	6.48
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	8.38
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	6.40
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	6.45
Well ID	RR-12	Depth to Bottom		Depth to Product	4.53	Depth to Water	7.06
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	5.91
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	6.50
Well ID	RR-16	Depth to Bottom		Depth to Product	7.88	Depth to Water	8.78
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-18	Depth to Bottom		Depth to Product		Depth to Water	11.38
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	7.80	Depth to Water	7.88
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	4.70
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	7.40
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	6.62
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	6.33
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	6.68
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	5.94
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	7.30
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	6.81
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	7.22
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	6.48
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	8.71
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	10.23
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	7.61
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	8.01
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	7.35
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	3.43
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	7.62
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	4.88
Well ID	RR1G	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR2G	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR5G	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	



Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	3.75
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	4.82
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	6.25
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	3.14
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	5.91
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	7.29
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	5.63
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	5.80
Well ID	RR-12	Depth to Bottom		Depth to Product	4.12	Depth to Water	4.45
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	5.02
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	5.88
Well ID	RR-16	Depth to Bottom		Depth to Product	6.76	Depth to Water	8.02
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-18	Depth to Bottom		Depth to Product	6.40	Depth to Water	9.94
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product		Depth to Water	6.88
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	3.35
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	6.44
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	4.32
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	4.10
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	5.33
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	2.78
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	5.97
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	4.98
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	5.42
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	3.90
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	7.70
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	9.04
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	6.44
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	6.52
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	5.95
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	5.72
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	1.98
Well ID	RR1G	Depth to Bottom		Depth to Product	4.52	Depth to Water	5.90
Well ID	RR2G	Depth to Bottom		Depth to Product		Depth to Water	3.25
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	5.90
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	0.67
Well ID	RR5G	Depth to Bottom		Depth to Product	4.08	Depth to Water	4.60
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	5.66



Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	4.80
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	5.21
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	6.87
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	3.75
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	6.24
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	7.82
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	6.13
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	6.35
Well ID	RR-12	Depth to Bottom		Depth to Product	4.34	Depth to Water	8.02
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	5.67
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	6.40
Well ID	RR-16	Depth to Bottom		Depth to Product	7.43	Depth to Water	8.34
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-18	Depth to Bottom		Depth to Product	7.01	Depth to Water	10.96
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	6.91	Depth to Water	7.15
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	3.92
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	6.54
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	5.55
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	5.21
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	5.43
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	4.10
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	6.28
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	5.78
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	6.15
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	5.01
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	8.03
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	9.59
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	6.57
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	7.13
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	6.43
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	2.90
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	6.60
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	3.59
Well ID	RR1G	Depth to Bottom		Depth to Product	4.98	Depth to Water	5.08
Well ID	RR2G	Depth to Bottom		Depth to Product		Depth to Water	3.99
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	6.23
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	2.11
Well ID	RR5G	Depth to Bottom		Depth to Product	6.20	Depth to Water	6.38
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	6.17



Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	5.05
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	5.40
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	7.13
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	3.94
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	6.41
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	8.12
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	6.35
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	6.62
Well ID	RR-12	Depth to Bottom		Depth to Product	4.86	Depth to Water	9.40
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	6.03
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	6.69
Well ID	RR-16	Depth to Bottom		Depth to Product	7.70	Depth to Water	8.53
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	2.93
Well ID	RR-18	Depth to Bottom		Depth to Product	7.40	Depth to Water	11.30
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	7.33	Depth to Water	7.65
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	4.41
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	6.95
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	6.25
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	5.91
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	5.98
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	5.04
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	6.89
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	6.38
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	6.71
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	5.80
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	8.36
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	9.92
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	7.00
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	7.62
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	6.85
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	3.32
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	7.15
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	4.48
Well ID	RR1G	Depth to Bottom		Depth to Product	5.33	Depth to Water	5.68
Well ID	RR2G	Depth to Bottom		Depth to Product		Depth to Water	4.75
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	6.40
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	3.58
Well ID	RR5G	Depth to Bottom		Depth to Product	6.87	Depth to Water	7.32
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	6.60



Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	5.26
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	5.47
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	7.24
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	4.03
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	6.44
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	8.33
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	6.46
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	6.69
Well ID	RR-12	Depth to Bottom		Depth to Product	5.05	Depth to Water	9.73
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	6.18
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	6.77
Well ID	RR-16	Depth to Bottom		Depth to Product	7.92	Depth to Water	8.55
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-18	Depth to Bottom		Depth to Product	7.78	Depth to Water	11.18
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product		Depth to Water	6.71
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	4.82
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	7.23
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	6.70
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	6.35
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	6.36
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	5.79
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	7.31
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	6.80
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	7.09
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	6.33
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	8.58
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	10.17
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	7.35
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	7.94
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	7.13
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	3.61
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR1G	Depth to Bottom		Depth to Product	5.52	Depth to Water	8.85
Well ID	RR2G	Depth to Bottom		Depth to Product		Depth to Water	5.42
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	6.49
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	6.31
Well ID	RR5G	Depth to Bottom		Depth to Product		Depth to Water	7.10
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	6.77



Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	5.31
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	5.51
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	7.41
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	4.16
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	6.58
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	8.57
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	6.62
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	6.73
Well ID	RR-12	Depth to Bottom		Depth to Product	5.10	Depth to Water	8.62
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	6.25
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	6.80
Well ID	RR-16	Depth to Bottom		Depth to Product	8.11	Depth to Water	8.71
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	uw
Well ID	RR-18	Depth to Bottom		Depth to Product	8.28	Depth to Water	10.28
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	8.22	Depth to Water	8.35
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	4.95
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	7.60
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	7.10
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	6.74
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	6.99
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	6.58
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	8.72
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	7.22
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	7.66
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	6.85
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	8.91
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	10.50
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	7.89
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	8.30
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	7.59
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	3.15
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	7.93
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	5.58
Well ID	RR1G	Depth to Bottom		Depth to Product	6.12	Depth to Water	7.50
Well ID	RR2G	Depth to Bottom		Depth to Product		Depth to Water	4.10
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	6.65
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	6.54
Well ID	RR5G	Depth to Bottom		Depth to Product	7.28	Depth to Water	7.74
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	6.93



Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	5.39
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	5.53
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	7.56
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	4.32
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	6.72
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	8.78
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	6.75
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	6.73
Well ID	RR-12	Depth to Bottom		Depth to Product	5.10	Depth to Water	7.80
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	6.32
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	6.82
Well ID	RR-16	Depth to Bottom		Depth to Product	8.36	Depth to Water	8.63
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	2.18
Well ID	RR-18	Depth to Bottom		Depth to Product	8.65	Depth to Water	9.80
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	8.14	Depth to Water	10.88
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	4.62
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	8.01
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	7.42
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	7.23
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	7.53
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	7.25
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	7.98
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	7.63
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	8.12
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	7.42
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	9.25
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	10.8
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	8.38
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	8.64
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product	7.85	Depth to Water	7.89
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	3.76
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	8.28
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	6.03
Well ID	RR1G	Depth to Bottom		Depth to Product	6.48	Depth to Water	6.73
Well ID	RR2G	Depth to Bottom		Depth to Product		Depth to Water	4.57
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	6.76
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	6.74
Well ID	RR5G	Depth to Bottom		Depth to Product	7.59	Depth to Water	7.60
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	7.07



Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-12	Depth to Bottom		Depth to Product	4.83	Depth to Water	7.75
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-16	Depth to Bottom		Depth to Product		Depth to Water	8.33
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-18	Depth to Bottom		Depth to Product	8.71	Depth to Water	10.00
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product	8.22	Depth to Water	8.26
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR1G	Depth to Bottom		Depth to Product	6.59	Depth to Water	6.78
Well ID	RR2G	Depth to Bottom		Depth to Product		Depth to Water	3.30
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	1.79
Well ID	RR5G	Depth to Bottom		Depth to Product	7.70	Depth to Water	7.72
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	7.12



Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	5.35
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	5.50
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	7.65
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	4.20
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	6.73
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	8.89
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	6.84
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	6.80
Well ID	RR-12	Depth to Bottom		Depth to Product	4.95	Depth to Water	7.42
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	6.35
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	6.83
Well ID	RR-16	Depth to Bottom		Depth to Product	8.40	Depth to Water	8.58
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	2.38
Well ID	RR-18	Depth to Bottom		Depth to Product	8.70	Depth to Water	10.33
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	7.83	Depth to Water	11.20
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	4.22
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	8.29
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	7.52
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	7.50
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	7.90
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	7.65
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	8.13
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	7.85
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	8.45
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	7.77
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	9.53
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	10.96
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	8.73
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	8.87
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	8.05
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	uw
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	uw
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	6.14
Well ID	RR1G	Depth to Bottom		Depth to Product	6.56	Depth to Water	6.93
Well ID	RR2G	Depth to Bottom		Depth to Product		Depth to Water	3.38
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	7.18
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	1.60
Well ID	RR5G	Depth to Bottom		Depth to Product		Depth to Water	7.80
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	7.19



Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	5.50
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	5.57
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	7.73
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	4.53
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	6.87
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	9.07
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	6.95
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	6.92
Well ID	RR-12	Depth to Bottom		Depth to Product	5.48	Depth to Water	9.71
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	6.60
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	7.00
Well ID	RR-16	Depth to Bottom		Depth to Product	9.70	Depth to Water	9.87
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	3.45
Well ID	RR-18	Depth to Bottom		Depth to Product	8.78	Depth to Water	10.90
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	7.93	Depth to Water	14.19
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	4.82
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	8.32
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	7.82
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	7.70
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	8.55
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	7.80
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	8.25
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	8.05
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	8.02
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	7.97
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	9.58
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	11.10
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	8.87
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	9.02
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product	8.51	Depth to Water	8.51
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	8.92
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	8.87
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	6.55
Well ID	RR1G	Depth to Bottom		Depth to Product	6.70	Depth to Water	6.75
Well ID	RR2G	Depth to Bottom		Depth to Product	6.50	Depth to Water	6.52
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	6.92
Well ID	RR4G	Depth to Bottom		Depth to Product	3.58	Depth to Water	3.58
Well ID	RR5G	Depth to Bottom		Depth to Product	7.85	Depth to Water	7.89
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	7.52



Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	4.80
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	5.27
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	7.61
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	3.93
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	6.62
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	8.90
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	6.81
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	6.62
Well ID	RR-12	Depth to Bottom		Depth to Product	4.79	Depth to Water	5.51
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	6.10
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	6.67
Well ID	RR-16	Depth to Bottom		Depth to Product	8.50	Depth to Water	8.58
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	2.18
Well ID	RR-18	Depth to Bottom		Depth to Product	8.76	Depth to Water	10.05
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	8.42	Depth to Water	10.40
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	4.90
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	8.35
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	7.65
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	7.47
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	8.00
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	7.68
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	6.45
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	7.80
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	8.42
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	7.88
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	9.48
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	11.03
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	8.80
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	8.90
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	8.52
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	uw
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	uw
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	6.14
Well ID	RR1G	Depth to Bottom		Depth to Product	6.56	Depth to Water	6.93
Well ID	RR2G	Depth to Bottom		Depth to Product		Depth to Water	3.38
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	7.18
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	1.60
Well ID	RR5G	Depth to Bottom		Depth to Product		Depth to Water	7.80
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	7.19



Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-12	Depth to Bottom		Depth to Product	4.99	Depth to Water	8.32
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-16	Depth to Bottom		Depth to Product		Depth to Water	8.22
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-18	Depth to Bottom		Depth to Product	8.12	Depth to Water	10.20
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	7.40	Depth to Water	13.70
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR1G	Depth to Bottom		Depth to Product	6.22	Depth to Water	6.25
Well ID	RR2G	Depth to Bottom		Depth to Product		Depth to Water	3.80
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR4G	Depth to Bottom		Depth to Product	7.33	Depth to Water	7.34
Well ID	RR5G	Depth to Bottom		Depth to Product		Depth to Water	2.30
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	



Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	4.85
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	5.35
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	7.20
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	4.10
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	6.60
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	8.29
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	6.45
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	6.62
Well ID	RR-12	Depth to Bottom		Depth to Product	5.18	Depth to Water	7.91
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	5.20
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	6.68
Well ID	RR-16	Depth to Bottom		Depth to Product		Depth to Water	8.25
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	1.40
Well ID	RR-18	Depth to Bottom		Depth to Product	8.33	Depth to Water	9.92
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	8.19	Depth to Water	11.10
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	3.53
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	7.85
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	uw
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	6.86
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	7.52
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	6.55
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	uw
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	7.20
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	7.85
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	7.11
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	uw
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	10.70
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	uw
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	8.35
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	7.60
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	uw
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	uw
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	5.60
Well ID	RR1G	Depth to Bottom		Depth to Product		Depth to Water	6.20
Well ID	RR2G	Depth to Bottom		Depth to Product		Depth to Water	3.76
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	6.62
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	2.18
Well ID	RR5G	Depth to Bottom		Depth to Product		Depth to Water	7.33
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	6.88



Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	4.80
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	5.32
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	6.93
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	4.07
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	6.27
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	8.16
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	6.20
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	6.17
Well ID	RR-12	Depth to Bottom		Depth to Product	4.44	Depth to Water	5.84
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	5.61
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	6.27
Well ID	RR-16	Depth to Bottom		Depth to Product		Depth to Water	7.78
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	2.88
Well ID	RR-18	Depth to Bottom		Depth to Product	7.58	Depth to Water	9.01
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	7.80	Depth to Water	8.30
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	3.32
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	6.99
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	5.60
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	5.38
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	6.38
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	4.33
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	6.60
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	5.95
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	6.50
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	5.45
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	5.39
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	10.00
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	7.33
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	7.35
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	6.96
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	7.17
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	7.54
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	5.60
Well ID	RR1G	Depth to Bottom		Depth to Product		Depth to Water	5.43
Well ID	RR2G	Depth to Bottom		Depth to Product		Depth to Water	3.46
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	6.29
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	1.49
Well ID	RR5G	Depth to Bottom		Depth to Product	6.19	Depth to Water	6.24
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	6.20



Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	2.82
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	4.40
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	5.63
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	1.98
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	5.32
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	6.51
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	5.04
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	5.21
Well ID	RR-12	Depth to Bottom		Depth to Product	3.75	Depth to Water	3.81
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	4.25
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	5.46
Well ID	RR-16	Depth to Bottom		Depth to Product	6.48	Depth to Water	6.73
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	1.75
Well ID	RR-18	Depth to Bottom		Depth to Product	6.47	Depth to Water	8.71
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	6.63	Depth to Water	7.03
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	1.42
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	6.08
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	uw
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	3.25
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	5.22
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	0.51
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	uw
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	4.25
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	3.38
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	2.37
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	uw
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	8.47
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	5.94
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	5.26
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	5.48
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	uw
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	uw
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	uw
Well ID	RR1G	Depth to Bottom		Depth to Product	4.44	Depth to Water	6.10
Well ID	RR2G	Depth to Bottom		Depth to Product		Depth to Water	2.05
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	5.55
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	0.65
Well ID	RR5G	Depth to Bottom		Depth to Product	2.91	Depth to Water	3.04
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	5.20



Rapid Refueler Water Levels Date: 8/23/2004

Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	4.30
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	4.95
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	6.24
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	3.23
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	5.82
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	6.77
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	5.25
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	5.70
Well ID	RR-12	Depth to Bottom		Depth to Product	3.95	Depth to Water	4.00
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	5.03
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	5.99
Well ID	RR-16	Depth to Bottom		Depth to Product	6.98	Depth to Water	7.30
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	1.10
Well ID	RR-18	Depth to Bottom		Depth to Product	6.52	Depth to Water	9.26
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	6.60	Depth to Water	8.35
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	2.90
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	5.81
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	4.40
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	4.03
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	4.65
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	2.30
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	4.94
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	4.70
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	5.02
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	3.12
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	7.30
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	8.91
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	5.70
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	6.31
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	5.50
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	uw
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	5.50
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	1.60
Well ID	RR1G	Depth to Bottom		Depth to Product	4.84	Depth to Water	4.85
Well ID	RR2G	Depth to Bottom		Depth to Product		Depth to Water	3.40
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	5.76
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	1.03
Well ID	RR5G	Depth to Bottom		Depth to Product	4.40	Depth to Water	4.43
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	5.50



Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	3.50
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	4.86
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	6.42
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	2.80
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	5.78
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	6.90
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	5.72
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	5.93
Well ID	RR-12	Depth to Bottom		Depth to Product	4.01	Depth to Water	4.05
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	5.07
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	5.95
Well ID	RR-16	Depth to Bottom		Depth to Product		Depth to Water	6.92
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	1.69
Well ID	RR-18	Depth to Bottom		Depth to Product	6.68	Depth to Water	9.01
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	6.90	Depth to Water	7.66
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	2.13
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	5.92
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	4.20
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	3.94
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	5.00
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	2.40
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	5.50
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	4.77
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	5.25
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	3.70
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	7.47
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	9.08
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	6.01
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	5.87
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	5.40
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	uw
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	uw
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	uw
Well ID	RR1G	Depth to Bottom		Depth to Product	4.98	Depth to Water	5.60
Well ID	RR2G	Depth to Bottom		Depth to Product		Depth to Water	3.25
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	5.67
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	0.90
Well ID	RR5G	Depth to Bottom		Depth to Product		Depth to Water	4.78
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	5.59



Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-12	Depth to Bottom		Depth to Product	4.05	Depth to Water	4.65
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-16	Depth to Bottom		Depth to Product	7.10	Depth to Water	7.42
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-18	Depth to Bottom		Depth to Product	6.92	Depth to Water	8.60
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	7.08	Depth to Water	7.72
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR1G	Depth to Bottom		Depth to Product	5.21	Depth to Water	5.46
Well ID	RR2G	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR5G	Depth to Bottom		Depth to Product	5.75	Depth to Water	5.80
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	



Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	3.70
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	4.70
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	5.19
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	2.62
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	5.38
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	6.01
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	4.80
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	5.31
Well ID	RR-12	Depth to Bottom		Depth to Product	3.70	Depth to Water	4.30
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	4.54
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	5.60
Well ID	RR-16	Depth to Bottom		Depth to Product	6.32	Depth to Water	6.68
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	1.39
Well ID	RR-18	Depth to Bottom		Depth to Product		Depth to Water	5.96
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product		Depth to Water	3.23
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	1.96
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	5.37
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	3.18
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	3.28
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	4.20
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	1.18
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	Full
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	3.99
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	4.80
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	2.58
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	6.18
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	4.13
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	5.10
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	5.21
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	4.75
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	UW
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	Buried
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	6.81
Well ID	RR1G	Depth to Bottom		Depth to Product	4.31	Depth to Water	4.82
Well ID	RR2G	Depth to Bottom		Depth to Product		Depth to Water	3.11
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	5.37
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	0.78
Well ID	RR5G	Depth to Bottom		Depth to Product	3.23	Depth to Water	3.30
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	4.99

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Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	4.47
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	5.02
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	6.43
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	3.30
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	5.91
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	6.80
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	5.75
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	6.00
Well ID	RR-12	Depth to Bottom		Depth to Product	3.93	Depth to Water	4.01
Well ID	RR-13	Depth to Bottom		Depth to Product	4.93	Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	5.15
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	6.02
Well ID	RR-16	Depth to Bottom		Depth to Product	7.00	Depth to Water	7.33
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	1.35
Well ID	RR-18	Depth to Bottom		Depth to Product		Depth to Water	6.41
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	6.60	Depth to Water	8.30
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	3.05
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	5.65
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	4.22
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	4.19
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	4.40
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	2.90
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	5.30
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	4.80
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	5.12
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	3.51
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	7.21
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	8.92
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	5.60
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	6.27
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	5.23
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	2.50
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	5.60
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	2.52
Well ID	RR1G	Depth to Bottom		Depth to Product		Depth to Water	4.90
Well ID	RR2G	Depth to Bottom		Depth to Product		Depth to Water	3.99
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	5.92
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	1.57
Well ID	RR5G	Depth to Bottom		Depth to Product		Depth to Water	4.77
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	5.55



Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	4.59
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	5.07
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	6.58
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	3.34
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	6.00
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	7.02
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	5.78
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	6.03
Well ID	RR-12	Depth to Bottom		Depth to Product		Depth to Water	4.32
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	5.26
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	6.05
Well ID	RR-16	Depth to Bottom		Depth to Product	7.18	Depth to Water	7.50
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	1.42
Well ID	RR-18	Depth to Bottom		Depth to Product	7.65	Depth to Water	10.42
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	6.55	Depth to Water	10.42
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	2.98
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	6.20
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	5.10
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	5.82
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	6.03
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	2.95
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	6.00
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	4.46
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	6.52
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	3.72
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	7.60
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	9.30
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	7.03
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	6.81
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	6.78
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	UW
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	UW
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	3.02
Well ID	RR1G	Depth to Bottom		Depth to Product	5.18	Depth to Water	5.23
Well ID	RR2G	Depth to Bottom		Depth to Product		Depth to Water	3.49
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	6.20
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	1.12
Well ID	RR5G	Depth to Bottom		Depth to Product		Depth to Water	5.06
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	5.35



Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	4.91
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	5.28
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	7.10
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	3.88
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	6.35
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	8.02
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	6.32
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	6.32
Well ID	RR-12	Depth to Bottom		Depth to Product	4.52	Depth to Water	5.81
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	5.74
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	6.37
Well ID	RR-16	Depth to Bottom		Depth to Product	7.74	Depth to Water	8.12
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	2.98
Well ID	RR-18	Depth to Bottom		Depth to Product	7.57	Depth to Water	9.93
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	7.71	Depth to Water	9.45
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	3.80
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	6.95
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	6.13
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	6.04
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	7.25
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	5.31
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	6.76
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	6.55
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	7.57
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	6.30
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	8.52
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	10.10
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	8.14
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	7.62
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	7.20
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	3.16
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	7.45
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	4.04
Well ID	RR1G	Depth to Bottom		Depth to Product	5.75	Depth to Water	5.77
Well ID	RR2G	Depth to Bottom		Depth to Product		Depth to Water	3.94
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	6.37
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	2.15
Well ID	RR5G	Depth to Bottom		Depth to Product	6.71	Depth to Water	6.72
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	6.38



Rapid Refueler Water Levels

Date: 10/21/2004

Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	5.15
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	5.30
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	7.38
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	4.20
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	6.60
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	8.58
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	6.63
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	6.57
Well ID	RR-12	Depth to Bottom		Depth to Product		Depth to Water	4.12
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	6.13
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	7.62
Well ID	RR-16	Depth to Bottom		Depth to Product	8.28	Depth to Water	8.32
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	2.93
Well ID	RR-18	Depth to Bottom		Depth to Product	8.28	Depth to Water	10.44
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	8.15	Depth to Water	9.20
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	4.60
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	7.85
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	7.26
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	7.06
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	8.30
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	7.12
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	7.75
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	7.60
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	8.56
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	7.55
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	9.25
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	10.75
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	9.13
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	8.55
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	8.23
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	3.90
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	8.80
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	5.53
Well ID	RR1G	Depth to Bottom		Depth to Product	6.38	Depth to Water	6.41
Well ID	RR2G	Depth to Bottom		Depth to Product		Depth to Water	4.37
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	6.63
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	3.56
Well ID	RR5G	Depth to Bottom		Depth to Product		Depth to Water	7.40
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	6.88



Rapid Refueler Water Levels

Date: 10/28/2004

Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	5.25
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	5.43
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	7.55
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	4.40
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	6.75
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	8.91
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	6.78
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	6.67
Well ID	RR-12	Depth to Bottom		Depth to Product	4.92	Depth to Water	8.78
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	6.32
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	6.72
Well ID	RR-16	Depth to Bottom		Depth to Product	8.48	Depth to Water	8.55
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	3.75
Well ID	RR-18	Depth to Bottom		Depth to Product	8.7	Depth to Water	9.95
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	8.73	Depth to Water	9.80
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	5.13
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	8.24
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	7.63
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	7.47
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	8.42
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	7.49
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	8.13
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	7.88
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	8.48
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	7.77
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	9.45
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	10.95
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	9.07
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	8.88
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	8.42
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	4.33
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	8.80
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	6.13
Well ID	RR1G	Depth to Bottom		Depth to Product	6.53	Depth to Water	6.92
Well ID	RR2G	Depth to Bottom		Depth to Product		Depth to Water	6.44
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	6.77
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	6.80
Well ID	RR5G	Depth to Bottom		Depth to Product	7.62	Depth to Water	7.64
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	7.10



Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	5.32
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	5.47
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	7.58
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	4.45
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	6.78
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	9.04
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	6.81
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	6.72
Well ID	RR-12	Depth to Bottom		Depth to Product		Depth to Water	8.20
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	6.40
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	6.78
Well ID	RR-16	Depth to Bottom		Depth to Product	8.58	Depth to Water	8.65
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	3.82
Well ID	RR-18	Depth to Bottom		Depth to Product	8.61	Depth to Water	10.55
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	8.48	Depth to Water	11.80
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	5.53
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	8.35
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	7.78
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	7.63
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	8.25
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	7.62
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	8.40
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	8.00
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	8.51
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	7.85
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	9.55
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	11.04
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	9.00
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	9.01
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	8.42
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	4.50
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	8.82
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	6.28
Well ID	RR1G	Depth to Bottom		Depth to Product	6.62	Depth to Water	7.05
Well ID	RR2G	Depth to Bottom		Depth to Product		Depth to Water	6.55
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	6.83
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	6.88
Well ID	RR5G	Depth to Bottom		Depth to Product	7.78	Depth to Water	7.80
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	7.20



Rapid Refueler Water Levels

Date: 11/12/2004

Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	5.40
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	5.61
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	7.68
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	4.61
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	6.96
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	9.20
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	6.92
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	6.77
Well ID	RR-12	Depth to Bottom		Depth to Product	5.45	Depth to Water	8.15
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	6.52
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	6.85
Well ID	RR-16	Depth to Bottom		Depth to Product	8.73	Depth to Water	8.74
Well ID	RR-17	Depth to Bottom		Depth to Product	4.11	Depth to Water	4.12
Well ID	RR-18	Depth to Bottom		Depth to Product	8.82	Depth to Water	11.12
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	8.21	Depth to Water	13.05
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	5.82
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	8.52
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	8.00
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	7.90
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	8.25
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	7.83
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	8.70
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	8.76
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	8.65
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	8.01
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	9.65
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	11.2
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	9.10
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	9.22
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	8.57
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	4.90
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	8.91
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	4.50
Well ID	RR1G	Depth to Bottom		Depth to Product	6.78	Depth to Water	7.20
Well ID	RR2G	Depth to Bottom		Depth to Product	6.65	Depth to Water	6.70
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	6.93
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	7.00
Well ID	RR5G	Depth to Bottom		Depth to Product	7.70	Depth to Water	7.71
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	7.30



Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-12	Depth to Bottom		Depth to Product	5.25	Depth to Water	7.60
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-16	Depth to Bottom		Depth to Product		Depth to Water	8.81
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	2.86
Well ID	RR-18	Depth to Bottom		Depth to Product	8.85	Depth to Water	11.35
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	8.22	Depth to Water	13.52
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR1G	Depth to Bottom		Depth to Product	6.88	Depth to Water	7.30
Well ID	RR2G	Depth to Bottom		Depth to Product	6.68	Depth to Water	6.72
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR5G	Depth to Bottom		Depth to Product	7.81	Depth to Water	7.82
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	



Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	5.18
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	5.38
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	7.70
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	4.68
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	7.00
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	9.24
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	6.94
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	6.53
Well ID	RR-12	Depth to Bottom		Depth to Product	4.97	Depth to Water	7.22
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	6.33
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	6.65
Well ID	RR-16	Depth to Bottom		Depth to Product		Depth to Water	8.75
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	1.82
Well ID	RR-18	Depth to Bottom		Depth to Product	8.79	Depth to Water	11.27
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	8.20	Depth to Water	13.12
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	4.49
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	8.62
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	7.88
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	7.89
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	8.32
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	8.09
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	8.68
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	8.13
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	8.71
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	8.19
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	9.77
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	11.32
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	9.23
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	9.21
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	8.30
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	3.68
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	9.09
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR1G	Depth to Bottom		Depth to Product	6.79	Depth to Water	7.20
Well ID	RR2G	Depth to Bottom		Depth to Product	6.41	Depth to Water	6.50
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	6.98
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	2.50
Well ID	RR5G	Depth to Bottom		Depth to Product	6.87	Depth to Water	6.95
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	7.25



Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	5.35
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	5.40
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	7.90
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	4.80
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	7.13
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	9.42
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	7.16
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	6.74
Well ID	RR-12	Depth to Bottom		Depth to Product	5.29	Depth to Water	7.87
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	6.52
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	6.80
Well ID	RR-16	Depth to Bottom		Depth to Product		Depth to Water	8.95
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	3.48
Well ID	RR-18	Depth to Bottom		Depth to Product	8.95	Depth to Water	11.82
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	8.46	Depth to Water	13.15
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	5.53
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	8.83
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	8.20
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	8.17
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	8.58
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	8.25
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	8.75
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	8.43
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	9.01
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	8.42
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	9.95
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	11.51
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	9.55
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	9.48
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	8.93
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	4.97
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	9.17
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	6.62
Well ID	RR1G	Depth to Bottom		Depth to Product	7.04	Depth to Water	7.42
Well ID	RR2G	Depth to Bottom		Depth to Product	6.85	Depth to Water	6.96
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	7.17
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	3.50
Well ID	RR5G	Depth to Bottom		Depth to Product	8.04	Depth to Water	8.15
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	7.47



Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-12	Depth to Bottom		Depth to Product	5.48	Depth to Water	7.75
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-16	Depth to Bottom		Depth to Product		Depth to Water	9.01
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-18	Depth to Bottom		Depth to Product	9.13	Depth to Water	11.18
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	8.98	Depth to Water	12.84
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-1G	Depth to Bottom		Depth to Product		Depth to Water	7.14
Well ID	RR-2G	Depth to Bottom		Depth to Product	6.86	Depth to Water	7.04
Well ID	RR-3G	Depth to Bottom		Depth to Product		Depth to Water	7.14
Well ID	RR-4G	Depth to Bottom		Depth to Product		Depth to Water	6.35
Well ID	RR-5G	Depth to Bottom		Depth to Product	8.13	Depth to Water	8.26
Well ID	RR-6G	Depth to Bottom		Depth to Product		Depth to Water	7.49



Rapid Refueler Water Levels

Date: 12/22/2004

Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	5.40
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	5.45
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	7.98
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	4.90
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	7.25
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	9.60
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	7.25
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	6.83
Well ID	RR-12	Depth to Bottom		Depth to Product	5.86	Depth to Water	6.80
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	6.70
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	6.90
Well ID	RR-16	Depth to Bottom		Depth to Product		Depth to Water	9.10
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	4.30
Well ID	RR-18	Depth to Bottom		Depth to Product	9.40	Depth to Water	10.48
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	9.50	Depth to Water	11.48
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	5.90
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	9.06
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	8.45
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	8.40
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	9.80
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	8.51
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	8.92
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	8.65
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	9.20
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	8.70
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	10.18
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	11.70
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	9.75
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	9.68
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	9.15
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	5.35
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	9.60
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	7.14
Well ID	RR1G	Depth to Bottom		Depth to Product	7.19	Depth to Water	7.20
Well ID	RR2G	Depth to Bottom		Depth to Product	6.89	Depth to Water	7.10
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	7.25
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	7.03
Well ID	RR5G	Depth to Bottom		Depth to Product		Depth to Water	5.30
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	7.50



Rapid Refueler Water Levels

Date: 12/29/2004

Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-12	Depth to Bottom		Depth to Product	5.22	Depth to Water	6.01
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-16	Depth to Bottom		Depth to Product		Depth to Water	8.93
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-18	Depth to Bottom		Depth to Product	9.06	Depth to Water	11.01
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	8.70	Depth to Water	13.23
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR1G	Depth to Bottom		Depth to Product	7.04	Depth to Water	7.07
Well ID	RR2G	Depth to Bottom		Depth to Product	6.51	Depth to Water	6.72
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR5G	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	



Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-12	Depth to Bottom		Depth to Product	5.11	Depth to Water	7.20
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-16	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-18	Depth to Bottom		Depth to Product	8.98	Depth to Water	10.51
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	8.57	Depth to Water	14.01
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-22	Depth to Bottom		Depth to Product	8.90	Depth to Water	8.91
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR1G	Depth to Bottom		Depth to Product	7.04	Depth to Water	7.06
Well ID	RR2G	Depth to Bottom		Depth to Product	6.70	Depth to Water	6.93
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR5G	Depth to Bottom		Depth to Product	7.98	Depth to Water	8.18
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	



Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-12	Depth to Bottom		Depth to Product	5.39	Depth to Water	7.50
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-16	Depth to Bottom		Depth to Product		Depth to Water	9.05
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-18	Depth to Bottom		Depth to Product	9.25	Depth to Water	10.92
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	9.46	Depth to Water	11.39
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	9.10
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR1G	Depth to Bottom		Depth to Product		Depth to Water	7.17
Well ID	RR2G	Depth to Bottom		Depth to Product		Depth to Water	6.95
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	4.97
Well ID	RR5G	Depth to Bottom		Depth to Product		Depth to Water	8.11
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	



Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	4.73
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	5.18
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	7.60
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	4.48
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	6.91
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	9.15
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	6.88
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	6.38
Well ID	RR-12	Depth to Bottom		Depth to Product	4.76	Depth to Water	6.78
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	6.10
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	6.49
Well ID	RR-16	Depth to Bottom		Depth to Product		Depth to Water	8.65
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	1.88
Well ID	RR-18	Depth to Bottom		Depth to Product	8.80	Depth to Water	10.43
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	9.00	Depth to Water	10.63
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	5.00
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	8.63
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	7.33
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	7.58
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	8.37
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	7.77
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	7.41
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	8.00
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	8.65
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	8.07
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	9.91
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	11.41
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	9.30
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	9.10
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	8.44
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	7.32
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	5.71
Well ID	RR1G	Depth to Bottom		Depth to Product	6.72	Depth to Water	6.91
Well ID	RR2G	Depth to Bottom		Depth to Product		Depth to Water	6.37
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	6.92
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	2.53
Well ID	RR5G	Depth to Bottom		Depth to Product		Depth to Water	7.22
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	7.03



Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-12	Depth to Bottom		Depth to Product	4.76	Depth to Water	7.72
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-16	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-18	Depth to Bottom		Depth to Product	8.87	Depth to Water	10.44
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	9.13	Depth to Water	10.17
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR1G	Depth to Bottom		Depth to Product	6.77	Depth to Water	6.84
Well ID	RR2G	Depth to Bottom		Depth to Product		Depth to Water	4.71
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	3.34
Well ID	RR5G	Depth to Bottom		Depth to Product		Depth to Water	7.84
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	



Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-12	Depth to Bottom		Depth to Product	4.80	Depth to Water	6.60
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-16	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-18	Depth to Bottom		Depth to Product	8.72	Depth to Water	11.01
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	9.00	Depth to Water	10.58
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR1G	Depth to Bottom		Depth to Product	6.70	Depth to Water	6.85
Well ID	RR2G	Depth to Bottom		Depth to Product		Depth to Water	3.35
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR5G	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	



Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-12	Depth to Bottom		Depth to Product	5.28	Depth to Water	5.80
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-16	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-18	Depth to Bottom		Depth to Product	8.85	Depth to Water	11.10
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	8.20	Depth to Water	10.12
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR1G	Depth to Bottom		Depth to Product	7.28	Depth to Water	7.30
Well ID	RR2G	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR5G	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	



Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-12	Depth to Bottom		Depth to Product	4.60	Depth to Water	6.38
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-16	Depth to Bottom		Depth to Product		Depth to Water	8.28
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-18	Depth to Bottom		Depth to Product	8.23	Depth to Water	10.62
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	8.38	Depth to Water	9.51
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR1G	Depth to Bottom		Depth to Product	6.23	Depth to Water	6.60
Well ID	RR2G	Depth to Bottom		Depth to Product		Depth to Water	4.95
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR5G	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	



Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-12	Depth to Bottom		Depth to Product	4.56	Depth to Water	5.35
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-16	Depth to Bottom		Depth to Product		Depth to Water	8.15
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-18	Depth to Bottom		Depth to Product	8.12	Depth to Water	10.35
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	8.25	Depth to Water	9.90
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR1G	Depth to Bottom		Depth to Product	6.20	Depth to Water	6.31
Well ID	RR2G	Depth to Bottom		Depth to Product		Depth to Water	3.38
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	1.70
Well ID	RR5G	Depth to Bottom		Depth to Product		Depth to Water	6.15
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	



Well ID	RR-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-7	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-10	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-12	Depth to Bottom		Depth to Product		Depth to Water	4.61
Well ID	RR-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-14	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-15	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-16	Depth to Bottom		Depth to Product		Depth to Water	7.85
Well ID	RR-17	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-18	Depth to Bottom		Depth to Product	8.40	Depth to Water	8.41
Well ID	RR-19	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-20	Depth to Bottom		Depth to Product	8.21	Depth to Water	9.10
Well ID	RR-21	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR-22	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-1	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-7	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	AS511-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-3	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-4	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-8	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-9	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-10	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-11	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-12	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	MW-13	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-2	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-5	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	DW-6	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR1G	Depth to Bottom		Depth to Product		Depth to Water	5.85
Well ID	RR2G	Depth to Bottom		Depth to Product		Depth to Water	4.22
Well ID	RR3G	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR4G	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR5G	Depth to Bottom		Depth to Product		Depth to Water	
Well ID	RR6G	Depth to Bottom		Depth to Product		Depth to Water	

APPENDIX B

AGGRESSIVE FLUID VAPOR RECOVERY VOLUME

CALCULATIONS AND FIELD DATA

**AGGRESSIVE FLUID VAPOR RECOVERY
CALCULATIONS**

B.1 Emissions Calculation Methods

The following material has been adapted from the North Carolina Department of Environment and Natural Resources guidance (NCDENR, 2001). Modifications to apply the method to JP5 fuel are identified in bold.

Emission calculations to Determine Flow as Dry Standard Cubic Feet Per Minute (DSCFM):

$$B_{ws} = (B_{wsW}/18 \text{ lb-mole H}_2\text{O}) / [(1/28.84 \text{ lb-mole dry air}) + (B_{wsW}/18 \text{ lb-mole H}_2\text{O})]$$

$$Q_{std} = (60 \text{ sec/min}) (1-B_{ws}) (V) (A) (528 \text{ R}^0 / T_s)$$

Q_{std} = flow at DSCFM

B_{wsW} = lb. of water per lb. of dry air (use high temperature psychrometric chart for air-water vapor mixtures in *Perry's Chemical Engineers' Handbook*)

(used data from Heatcraft Psychrometric Chart, High Temperature, Sea Level; saturation was assumed)

B_{ws} = water vapor % by volume

V = velocity in ft/sec (obtain with hot wire anemometer or pitot tube (use average value))

A = cross sectional area of discharge stack in sq. ft. at sampling location

T_s = stack temperature in degrees Rankin (R^0), $R^0 = F^0 + 460$ (use average value)

Equations to determine Pollutant Mass Removal rate as gasoline (PMR_g):

$$PPM_w = PPM_{measured}$$

$$PPM_d = (PPM_w) / (1-B_{ws})$$

$$PPM_c = (PPM_d) (K)$$

$$C_{c:m} = PPM_c (M_c/K_3)$$

$$C_c = C_{c:m} (62.43 \times 10^{-9} \text{ lb-m}^3/\text{mg-ft}^3)$$

$$PMR_c = C_c (Q_{std}) (60 \text{ min/hr})$$

$$PMR_g = (PMR_c) (M_g/M_{cg})$$

$PPM_{measured}$ = obtained directly from OVA or TVA (use average value)

PPM_w = "wet" concentration

PPM_d = "dry" concentration

K = number of carbons in calibration gas (methane $K=1$, propane $K=3$, hexane $K=6$)

(methane was used consistently as the calibration gas)

PPM_c = PPM_v , volumetric concentration of VOC emissions as carbon, dry basis, at STP

$C_{c:m}$ = mg/dsm^3 , mass concentration of VOC emissions as carbon

M_c = 12.01 mg/mg-mole , molecular wt. of carbon

K_3 = 24.07 $\text{dsm}^3/10^6 \text{ mg-mole}$, mass to volume conversion factor at STP

C_c = lb/dscf , mass concentration of VOC emissions as carbon, dry basis, at STP

PMR_c = lb/hr , pollutant mass removal rate of VOC's as carbon

PMR_g = lb/hr , pollutant mass removal rate of VOC's as gasoline

M_g = 103 mg/mg-mole , molecular wt. of gasoline (value may vary depending on contaminant)

(for JP5 fuel, a values of 182 mg/mg-mole was used [Martinez, 2005])

M_{cg} = 89 mg/mg-mole , weight of carbon in gasoline molecule

(for JP5 fuel, a value of 156 mg/mg-mole was used [Martinez, 2005])

NOTE: To convert lbs. of gasoline emissions to gallons of liquid gasoline, divide by 6.25 lbs/gal.

(for JP5, a specific gravity of 0.8 was used [PHPV, 2003])

Average values for molecular weight of gasoline, weight of carbon in gasoline molecule, and the conversion of pounds of gasoline emissions to gallons of liquid gasoline are from *Automotive Fuels Reference Book*, by K. Owens and T. Coley, Second Edition, 1995, published by the Society of Automotive Engineers.

A correction to standard pressure was included in the calculation, as follows:

$(29.92 + P_{\text{Hg}}) / P_{\text{STD}}$, where pressure is measured in inches of Mercury and P_{STD} equals 29.92.

However, stack pressure readings at the photoionization port were not available. As the pressure is expected to be low (less than 0.5 inches of Mercury), a value of 0 for PHG was assumed, and consequently the results of the calculation were unchanged.

Table B-1

AFVR Removal Volume Calculations - Well RR-1G

(Page 1 of 4)

Date	Stack Temperature (F°)	Stack Gas Velocity (ft/sec)	Stack Diameter (in)	Assumed Stack Pressure at PID Port (in Hg)	Flow Rate (DSCFM)	Vacuum Applied (in Hg)	Measured PPM ("wet")	Elapsed Time Interval (min)	Calibration Gas	Direct Liquid Product Volume Removed (gal)	Liquid Mass Removed (lbs)	Product Volume Removed from Vapor (gal)	Vapor Mass Removed (lbs)	Total Product Volume Removed (gal)	Total Product Mass Removed (lbs)
	T _S	V	D	P	Q _{STD}	P _V	PPM _W	ET _M	C _G	VOL	Mass	VOL	Mass	VOL	Mass
5/28/2004	92	200	6	0.0	2140	23.0	200,000	15	Methane	2.5	15.6	36.8	245.7		
	95	200	6	0.0	2117	23.0	200,000	15	Methane			36.6	244.4		
	96	200	6	0.0	2109	23.0	200,000	15	Methane			36.5	243.9		
	98	200	6	0.0	2094	23.0	200,000	15	Methane			36.4	243.1		
	99	200	6	0.0	2086	23.0	200,000	15	Methane			36.3	242.6		
	101	200	6	0.0	2070	23.0	189,720	15	Methane			34.3	229.3		
	101	200	6	0.0	2070	23.0	176,836	15	Methane			32.0	213.8		
	103	200	6	0.0	2053	23.0	166,210	15	Methane			30.0	200.2		
	103	200	6	0.0	2053	23.0	162,680	15	Methane			29.3	196.0		
TOTAL for 28 May 2004														311	2,075
6/4/2004	72	200	6	0.0	2277	22.0	200,000	15	Methane	2.0	12.5	38.2	255.0		
	75	200	6	0.0	2257	22.0	200,000	15	Methane			38.0	253.5		
	76	200	6	0.0	2251	22.0	200,000	15	Methane			37.9	253.1		
	78	200	6	0.0	2238	22.0	200,000	15	Methane			37.7	252.1		
	79	200	6	0.0	2231	23.0	186,320	15	Methane			35.1	234.4		
	80	200	6	0.0	2224	23.0	179,548	15	Methane			33.8	225.5		
	82	200	6	0.0	2211	23.0	164,796	15	Methane			30.9	206.2		
	82	200	6	0.0	2211	23.0	158,364	15	Methane			29.7	198.2		
	TOTAL for 04 Jun 2004														
6/12/2004	82	200	6	0.0	2211	23.0	200,000	15	Methane	2.5	15.6	37.5	250.2		
	85	200	6	0.0	2190	23.0	200,000	15	Methane			37.3	248.9		
	88	200	6	0.0	2169	23.0	200,000	15	Methane			37.1	247.5		
	91	200	6	0.0	2147	23.0	200,000	15	Methane			36.9	246.2		
	92	200	6	0.0	2140	23.0	200,000	15	Methane			36.8	245.7		
	94	200	6	0.0	2125	23.0	190,276	15	Methane			34.9	232.9		
	96	200	6	0.0	2109	23.0	177,612	15	Methane			32.4	216.6		
	96	200	6	0.0	2109	23.0	166,216	15	Methane			30.4	202.7		
	98	200	6	0.0	2094	23.0	153,440	15	Methane			27.9	186.5		
TOTAL for 12 Jun 2004														313	2,093

Table B-1

AFVR Removal Volume Calculations - Well RR-1G

(Page 2 of 4)

Date	Stack Temperature (F°)	Stack Gas Velocity (ft/sec)	Stack Diameter (in)	Assumed Stack Pressure at PID Port (in Hg)	Flow Rate (DSCFM)	Vacuum Applied (in Hg)	Measured PPM ("wet")	Elapsed Time Interval (min)	Calibration Gas	Direct Liquid Product Volume Removed (gal)	Liquid Mass Removed (lbs)	Product Volume Removed from Vapor (gal)	Vapor Mass Removed (lbs)	Total Product Volume Removed (gal)	Total Product Mass Removed (lbs)
	T _S	V	D	P	Q _{STD}	P _V	PPM _W	ET _M	C _G	VOL	Mass	VOL	Mass	VOL	Mass
6/18/2004	91	400	6	0.0	4294	23.0	200,000	15	Methane	0.5	3.1	73.7	492.3		
	93	400	6	0.0	4264	23.0	200,000	15	Methane			73.4	490.5		
	93	400	6	0.0	4264	23.0	200,000	15	Methane			73.4	490.5		
	95	400	6	0.0	4234	23.0	184,736	15	Methane			67.6	451.5		
	96	400	6	0.0	4219	23.0	172,834	15	Methane			63.1	421.6		
	99	400	6	0.0	4171	23.0	166,380	15	Methane			60.4	403.7		
	99	400	6	0.0	4171	23.0	158,610	15	Methane			57.6	384.9		
TOTAL for 18 Jun 2004														470	3,138
7/14/2004	88	400	6	0.0	4337	22.0	200,000	15	Methane	1.3	7.8	74.1	495.0		
	95	400	6	0.0	4234	22.0	200,000	15	Methane			73.2	488.8		
	97	400	6	0.0	4209	22.0	200,000	15	Methane			72.9	487.0		
	98	400	6	0.0	4187	22.0	200,000	15	Methane			72.8	486.1		
	98	400	6	0.0	4187	23.0	200,000	15	Methane			72.8	486.1		
	99	400	6	0.0	4171	23.0	196,828	15	Methane			71.5	477.6		
	99	400	6	0.0	4171	23.0	187,972	15	Methane			68.3	456.1		
	100	400	6	0.0	4155	23.0	173,988	15	Methane			63.1	421.4		
	101	400	6	0.0	4139	22.0	161,264	15	Methane			58.4	389.9		
	100	400	6	0.0	4155	22.0	148,472	15	Methane			53.8	359.6		
TOTAL for 14 Jul 2004														682	4,556
9/4/2004	83	400	6	0.0	4408	20.0	200,000	15	Methane	1.3	7.8	74.8	499.6		
	91	400	6	0.0	4294	20.0	200,000	15	Methane			73.7	492.3		
	92	400	6	0.0	4279	20.0	200,000	15	Methane			73.6	491.4		
	94	400	6	0.0	4250	20.0	200,000	15	Methane			73.3	489.7		
	94	400	6	0.0	4250	20.0	200,000	15	Methane			73.3	489.7		
	95	400	6	0.0	4234	20.0	192,396	15	Methane			70.4	470.2		
	95	400	6	0.0	4234	20.0	180,688	15	Methane			66.1	441.6		
	95	400	6	0.0	4234	20.0	166,212	15	Methane			60.8	406.2		
	95	400	6	0.0	4234	19.0	146,820	15	Methane			53.7	358.8		
TOTAL for 04 Sep 2004														621	4,147

Table B-1

AFVR Removal Volume Calculations - Well RR-1G

(Page 3 of 4)

Date	Stack Temperature (F°)	Stack Gas Velocity (ft/sec)	Stack Diameter (in)	Assumed Stack Pressure at PID Port (in Hg)	Flow Rate (DSCFM)	Vacuum Applied (in Hg)	Measured PPM ("wet")	Elapsed Time Interval (min)	Calibration Gas	Direct Liquid Product Volume Removed (gal)	Liquid Mass Removed (lbs)	Product Volume Removed from Vapor (gal)	Vapor Mass Removed (lbs)	Total Product Volume Removed (gal)	Total Product Mass Removed (lbs)
	T _S	V	D	P	Q _{STD}	P _V	PPM _W	ET _M	C _G	VOL	Mass	VOL	Mass	VOL	Mass
9/25/2004	83	400	6	0.0	4408	18.0	200,000	15	Methane	1.0	6.3	74.8	499.6		
	91	400	6	0.0	4294	18.0	200,000	15	Methane			73.7	492.3		
	93	400	6	0.0	4264	18.0	200,000	15	Methane			73.4	490.5		
	94	400	6	0.0	4250	18.0	200,000	15	Methane			73.3	489.7		
	95	400	6	0.0	4234	18.0	195,232	15	Methane			71.4	477.1		
	95	400	6	0.0	4234	18.0	183,668	15	Methane			67.2	448.9		
	96	400	6	0.0	4219	18.0	172,580	15	Methane			63.0	421.0		
	96	400	6	0.0	4219	18.0	162,468	15	Methane			59.3	396.3		
	95	400	6	0.0	4234	18.0	151,932	15	Methane			55.6	371.3		
TOTAL for 25 Sep 2004														613	4,093
11/14/2004	44	400	6	0.0	4889	18.0	193,412	15	Methane	0.5	3.1	77.9	520.5		
	49	400	6	0.0	4831	18.0	180,908	15	Methane			72.2	482.1		
	50	400	6	0.0	4819	18.0	170,740	15	Methane			68.0	454.1		
	51	400	6	0.0	4808	18.0	158,488	15	Methane			63.0	420.7		
	52	400	6	0.0	4797	18.0	139,556	15	Methane			55.3	369.7		
TOTAL for 14 Nov 2004														337	2,250
12/10/2004	67	400	6	0.0	4616	22.0	189,580	15	Methane	0.5	3.1	73.0	487.9		
	73	400	6	0.0	4540	22.0	177,692	15	Methane			67.7	452.2		
	74	400	6	0.0	4527	22.0	169,448	15	Methane			64.4	430.4		
	75	400	6	0.0	4515	22.0	157,228	15	Methane			59.7	398.6		
	75	400	6	0.0	4515	22.0	143,284	15	Methane			54.4	363.3		
TOTAL for 10 Dec 2004														320	2,136
2/5/2005	55	400	6	0.0	4761	23.0	186,248	15	Methane	0.3	1.6	73.4	490.5		
	62	400	6	0.0	4677	23.0	171,976	15	Methane			66.9	446.9		
	63	400	6	0.0	4665	23.0	159,452	15	Methane			61.9	413.5		
	63	400	6	0.0	4665	23.0	141,864	15	Methane			55.1	367.9		
TOTAL for 05 Feb 2005														258	1,720

Table B-1

AFVR Removal Volume Calculations - Well RR-1G

(Page 4 of 4)

Date	Stack Temperature (F°)	Stack Gas Velocity (ft/sec)	Stack Diameter (in)	Assumed Stack Pressure at PID Port (in Hg)	Flow Rate (DSCFM)	Vacuum Applied (in Hg)	Measured PPM ("wet")	Elapsed Time Interval (min)	Calibration Gas	Direct Liquid Product Volume Removed (gal)	Liquid Mass Removed (lbs)	Product Volume Removed from Vapor (gal)	Vapor Mass Removed (lbs)	Total Product Volume Removed (gal)	Total Product Mass Removed (lbs)
	T _S	V	D	P	Q _{STD}	P _V	PPM _W	ET _M	C _G	VOL	Mass	VOL	Mass	VOL	Mass
2/26/2005	46	400	6	0.0	4866	24.0	184,816	15	Methane	0.3	1.6	74.2	495.4		
	53	400	6	0.0	4784	24.0	170,348	15	Methane			67.4	450.4		
	54	400	6	0.0	4773	24.0	152,356	15	Methane			60.2	402.0		
	55	400	6	0.0	4761	24.0	135,192	15	Methane			53.3	356.1		
TOTAL for 26 Feb 2005														255	1,705
3/16/2005	42	400	6	0.0	4912	22.0	195,736	15	Methane	0.3	1.6	79.2	528.9		
	46	400	6	0.0	4866	22.0	185,644	15	Methane			74.5	497.6		
	46	400	6	0.0	4866	22.0	171,812	15	Methane			68.9	460.5		
	46	400	6	0.0	4866	22.0	157,876	15	Methane			63.4	423.2		
	45	400	6	0.0	4878	22.0	136,860	15	Methane			55.0	367.6		
TOTAL for 16 Mar 2005														341	2,279

Table B-2

AFVR Removal Volume Calculations - Well RR-2G

(Page 1 of 1)

Date	Stack Temperature (F°)	Stack Gas Velocity (ft/sec)	Stack Diameter (in)	Assumed Stack Pressure at PID Port (in Hg)	Flow Rate (DSCFM)	Vacuum Applied (in Hg)	Measured PPM ("wet")	Elapsed Time Interval (min)	Calibration Gas	Direct Liquid Product Volume Removed (gal)	Liquid Mass Removed (lbs)	Product Volume Removed from Vapor (gal)	Vapor Mass Removed (lbs)	Total Product Volume Removed (gal)	Total Product Mass Removed (lbs)
	T _S	V	D	P	Q _{STD}	P _V	PPM _W	ET _M	C _G	VOL	Mass	VOL	Mass	VOL	Mass
1/7/2005	61	400	6	0.0	4689	23.0	192,924	15	Methane	0.3	1.6	75.2	502.3		
	65	400	6	0.0	4641	23.0	184,820	15	Methane			71.5	477.5		
	66	400	6	0.0	4629	23.0	174,936	15	Methane			67.5	451.1		
	65	400	6	0.0	4641	23.0	163,956	15	Methane			63.4	423.6		
	64	400	6	0.0	4653	23.0	150,340	15	Methane			58.3	389.1		
TOTAL for 07 Jan 2005														336	2,245
2/16/2005	64	400	6	0.0	4653	24.0	187,584	15	Methane	0.3	1.6	72.7	485.6		
	69	400	6	0.0	4591	24.0	168,716	15	Methane			64.8	432.6		
	69	400	6	0.0	4591	24.0	151,216	15	Methane			58.0	387.7		
	70	400	6	0.0	4579	24.0	135,688	15	Methane			52.0	347.2		
TOTAL for 16 Feb 2005														248	1,655

Table B-3

AFVR Removal Volume Calculations - Well RR-5G

(Page 1 of 1)

Date	Stack Temperature (F°)	Stack Gas Velocity (ft/sec)	Stack Diameter (in)	Assumed Stack Pressure at PID Port (in Hg)	Flow Rate (DSCFM)	Vacuum Applied (in Hg)	Measured PPM ("wet")	Elapsed Time Interval (min)	Calibration Gas	Direct Liquid Product Volume Removed (gal)	Liquid Mass Removed (lbs)	Product Volume Removed from Vapor (gal)	Vapor Mass Removed (lbs)	Total Product Volume Removed (gal)	Total Product Mass Removed (lbs)
	T _S	V	D	P	Q _{STD}	P _V	PPM _W	ET _M	C _G	VOL	Mass	VOL	Mass	VOL	Mass
5/28/2004	92	200	6	0.0	2140	23.0	200,000	15	Methane	2.5	15.6	37	246		
	95	200	6	0.0	2117	23.0	200,000	15	Methane			37	244		
	96	200	6	0.0	2109	23.0	200,000	15	Methane			37	244		
	98	200	6	0.0	2094	23.0	200,000	15	Methane			36	243		
	99	200	6	0.0	2086	23.0	200,000	15	Methane			36	243		
	101	200	6	0.0	2070	23.0	189,720	15	Methane			34	229		
	101	200	6	0.0	2070	23.0	176,836	15	Methane			32	214		
	103	200	6	0.0	2053	23.0	166,210	15	Methane			30	200		
	103	200	6	0.0	2053	23.0	162,680	15	Methane			29	196		
TOTAL for 28 May 2004														311	2,075
6/4/2004	72	200	6	0.0	2277	22.0	200,000	15	Methane	2.0	12.5	38	255		
	75	200	6	0.0	2257	22.0	200,000	15	Methane			38	254		
	76	200	6	0.0	2251	22.0	200,000	15	Methane			38	253		
	78	200	6	0.0	2238	22.0	200,000	15	Methane			38	252		
	79	200	6	0.0	2231	23.0	186,320	15	Methane			35	234		
	80	200	6	0.0	2224	23.0	179,548	15	Methane			34	225		
	82	200	6	0.0	2211	23.0	164,796	15	Methane			31	206		
	82	200	6	0.0	2211	23.0	158,364	15	Methane			30	198		
TOTAL for 04 Jun 2004														283	1,890
6/12/2004	82	200	6	0.0	2211	23.0	200,000	15	Methane	2.5	15.6	37	250		
	85	200	6	0.0	2190	23.0	200,000	15	Methane			37	249		
	88	200	6	0.0	2169	23.0	200,000	15	Methane			37	248		
	91	200	6	0.0	2147	23.0	200,000	15	Methane			37	246		
	92	200	6	0.0	2140	23.0	200,000	15	Methane			37	246		
	94	200	6	0.0	2125	23.0	190,276	15	Methane			35	233		
	96	200	6	0.0	2109	23.0	177,612	15	Methane			32	217		
	96	200	6	0.0	2109	23.0	166,216	15	Methane			30	203		
	98	200	6	0.0	2094	23.0	153,440	15	Methane			28	186		
TOTAL for 12 Jun 2004														313	2,093
2/16/2005	60	400	6	0.0	4701	24.0	193,044	15	Methane	0.3	1.6	75	504		
	65	400	6	0.0	4641	24.0	183,712	15	Methane			71	475		
	66	400	6	0.0	4629	24.0	122,440	15	Methane			47	316		
	66	400	6	0.0	4629	24.0	161,636	15	Methane			62	417		
	67	400	6	0.0	4616	24.0	149,420	15	Methane			58	385		
TOTAL for 16 Feb 2005														314	2,097

Table B-4

AFVR Removal Volume Calculations - Well RR-12

(Page 1 of 8)

Date	Stack Temperature (F°)	Stack Gas Velocity (ft/sec)	Stack Diameter (in)	Assumed Stack Pressure at PID Port (in Hg)	Flow Rate (DSCFM)	Vacuum Applied (in Hg)	Measured PPM ("wet")	Elapsed Time Interval (min)	Calibration Gas	Direct Liquid Product Volume Removed (gal)	Liquid Mass Removed (lbs)	Product Volume Removed from Vapor (gal)	Vapor Mass Removed (lbs)	Total Product Volume Removed (gal)	Total Product Mass Removed (lbs)
	T _S	V	D	P	Q _{STD}	P _V	PPM _W	ET _M	C _G	VOL	Mass	VOL	Mass	VOL	Mass
4/7/2004	76	400	6	0.0	4501	23.0	200,000	15	Methane	2.5	15.6	76	506		
	76	400	6	0.0	4501	23.0	200,000	15	Methane			76	506		
	77	400	6	0.0	4488	23.0	191,374	15	Methane			72	483		
	77	400	6	0.0	4488	23.0	179,688	15	Methane			68	454		
	76	400	6	0.0	4501	23.0	165,152	15	Methane			63	418		
	77	400	6	0.0	4488	23.0	156,884	15	Methane			59	396		
TOTAL for 07 Apr 2004														416	2,779
4/23/2004	80	400	6	0.0	4449	23.0	200,000	15	Methane	1.5	9.4	75	502		
	82	400	6	0.0	4421	23.0	200,000	15	Methane			75	500		
	82	400	6	0.0	4421	23.0	200,000	15	Methane			75	500		
	84	400	6	0.0	4394	23.0	200,000	15	Methane			75	499		
	84	400	6	0.0	4394	23.0	178,912	15	Methane			67	446		
	84	400	6	0.0	4394	23.0	161,552	15	Methane			60	403		
	85	400	6	0.0	4380	23.0	154,776	15	Methane			58	385		
TOTAL for 23 Apr 2004														486	3,245
5/27/2004	86	400	6	0.0	4366	23.0	200,000	15	Methane	2.8	17.2	74	497		
	88	400	6	0.0	4337	23.0	200,000	15	Methane			74	495		
	90	400	6	0.0	4309	23.0	200,000	15	Methane			74	493		
	96	400	6	0.0	4219	23.0	200,000	15	Methane			73	488		
	98	400	6	0.0	4187	23.0	200,000	15	Methane			73	486		
	99	400	6	0.0	4171	23.0	190,466	15	Methane			69	462		
	101	400	6	0.0	4139	23.0	178,764	15	Methane			65	432		
	101	400	6	0.0	4139	23.0	167,226	15	Methane			61	404		
	101	400	6	0.0	4139	23.0	157,884	15	Methane			57	382		
TOTAL for 27 May 2004														622	4,157

Table B-4

AFVR Removal Volume Calculations - Well RR-12

(Page 2 of 8)

Date	Stack Temperature (F°)	Stack Gas Velocity (ft/sec)	Stack Diameter (in)	Assumed Stack Pressure at PID Port (in Hg)	Flow Rate (DSCFM)	Vacuum Applied (in Hg)	Measured PPM ("wet")	Elapsed Time Interval (min)	Calibration Gas	Direct Liquid Product Volume Removed (gal)	Liquid Mass Removed (lbs)	Product Volume Removed from Vapor (gal)	Vapor Mass Removed (lbs)	Total Product Volume Removed (gal)	Total Product Mass Removed (lbs)
	T _S	V	D	P	Q _{STD}	P _V	PPM _W	ET _M	C _G	VOL	Mass	VOL	Mass	VOL	Mass
6/3/2004	71	400	6	0.0	4566	22.0	200,000	15	Methane	2.5	15.6	76	511		
	75	400	6	0.0	4515	22.0	200,000	15	Methane			76	507		
	75	400	6	0.0	4515	22.0	200,000	15	Methane			76	507		
	76	400	6	0.0	4501	22.0	200,000	15	Methane			76	506		
	77	400	6	0.0	4488	23.0	200,000	15	Methane			76	505		
	76	400	6	0.0	4501	23.0	198,752	15	Methane			75	503		
	78	400	6	0.0	4476	23.0	187,664	15	Methane			71	473		
	78	400	6	0.0	4476	23.0	174,816	15	Methane			66	441		
	78	400	6	0.0	4476	23.0	165,688	15	Methane			63	418		
	78	400	6	0.0	4476	23.0	158,542	15	Methane			60	400		
TOTAL for 03 Jun 2004														717	4,786
6/11/2004	82	400	6	0.0	4421	23.0	200,000	15	Methane	2.5	15.6	75	500		
	87	400	6	0.0	4352	23.0	200,000	15	Methane			74	496		
	91	400	6	0.0	4294	23.0	200,000	15	Methane			74	492		
	92	400	6	0.0	4279	23.0	195,544	15	Methane			72	480		
	94	400	6	0.0	4250	23.0	183,020	15	Methane			67	448		
	97	400	6	0.0	4209	23.0	172,912	15	Methane			63	421		
	98	400	6	0.0	4187	23.0	165,428	15	Methane			60	402		
	98	400	6	0.0	4187	23.0	158,608	15	Methane			58	386		
TOTAL for 11 Jun 2004														545	3,642
6/20/2004	68	400	6	0.0	4604	23.0	200,000	15	Methane	2.8	17.2	77	514		
	71	400	6	0.0	4566	23.0	200,000	15	Methane			76	511		
	73	400	6	0.0	4540	23.0	200,000	15	Methane			76	509		
	76	400	6	0.0	4501	23.0	200,000	15	Methane			76	506		
	77	400	6	0.0	4488	23.0	200,000	15	Methane			76	505		
	79	400	6	0.0	4462	23.0	200,000	15	Methane			75	503		
	80	400	6	0.0	4449	23.0	196,380	15	Methane			74	493		
	81	400	6	0.0	4435	23.0	188,540	15	Methane			71	473		
	83	400	6	0.0	4408	23.0	174,632	15	Methane			65	436		
	85	400	6	0.0	4380	23.0	167,810	15	Methane			63	418		
	88	400	6	0.0	4337	23.0	162,752	15	Methane			60	403		
TOTAL for 20 Jun 2004														792	5,288

Table B-4

AFVR Removal Volume Calculations - Well RR-12

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Date	Stack Temperature (F°)	Stack Gas Velocity (ft/sec)	Stack Diameter (in)	Assumed Stack Pressure at PID Port (in Hg)	Flow Rate (DSCFM)	Vacuum Applied (in Hg)	Measured PPM ("wet")	Elapsed Time Interval (min)	Calibration Gas	Direct Liquid Product Volume Removed (gal)	Liquid Mass Removed (lbs)	Product Volume Removed from Vapor (gal)	Vapor Mass Removed (lbs)	Total Product Volume Removed (gal)	Total Product Mass Removed (lbs)
	T _S	V	D	P	Q _{STD}	P _V	PPM _W	ET _M	C _G	VOL	Mass	VOL	Mass	VOL	Mass
6/25/2004	82	400	6	0.0	4421	22.0	200,000	15	Methane	2.0	12.5	75	500		
	89	400	6	0.0	4323	22.0	200,000	15	Methane			74	494		
	91	400	6	0.0	4294	22.0	200,000	15	Methane			74	492		
	92	400	6	0.0	4279	22.0	200,000	15	Methane			74	491		
	93	400	6	0.0	4264	23.0	200,000	15	Methane			73	491		
	93	400	6	0.0	4264	23.0	200,000	15	Methane			73	491		
	94	400	6	0.0	4250	23.0	193,336	15	Methane			71	473		
	94	400	6	0.0	4250	23.0	183,220	15	Methane			67	449		
	95	400	6	0.0	4234	23.0	172,476	15	Methane			63	422		
	96	400	6	0.0	4219	23.0	161,184	15	Methane			59	393		
	96	400	6	0.0	4219	23.0	149,748	15	Methane			55	365		
TOTAL for 25 Jun 2004														760	5,074
7/10/2004	84	400	6	0.0	4394	23.0	200,000	15	Methane	3.0	18.8	75	499		
	91	400	6	0.0	4294	23.0	200,000	15	Methane			74	492		
	93	400	6	0.0	4264	23.0	200,000	15	Methane			73	491		
	93	400	6	0.0	4264	23.0	198,136	15	Methane			73	486		
	94	400	6	0.0	4250	23.0	189,532	15	Methane			69	464		
	94	400	6	0.0	4250	23.0	180,472	15	Methane			66	442		
	95	400	6	0.0	4234	23.0	174,024	15	Methane			64	425		
	95	400	6	0.0	4234	23.0	164,908	15	Methane			60	403		
	96	400	6	0.0	4219	22.0	159,868	15	Methane			58	390		
TOTAL for 10 Jul 2004														616	4,110
7/15/2004	90	400	6	0.0	4309	22.0	200,000	15	Methane	1.0	6.3	74	493		
	97	400	6	0.0	4209	22.0	200,000	15	Methane			73	487		
	98	400	6	0.0	4187	22.0	200,000	15	Methane			73	486		
	98	400	6	0.0	4187	22.0	200,000	15	Methane			73	486		
	98	400	6	0.0	4187	22.0	200,000	15	Methane			73	486		
	99	400	6	0.0	4171	22.0	191,248	15	Methane			69	464		
	98	400	6	0.0	4187	22.0	175,184	15	Methane			64	426		
	99	400	6	0.0	4171	22.0	162,352	15	Methane			59	394		
	99	400	6	0.0	4171	22.0	149,212	15	Methane			54	362		
TOTAL for 15 Jul 2004														612	4,091

Table B-4

AFVR Removal Volume Calculations - Well RR-12

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Date	Stack Temperature (F°)	Stack Gas Velocity (ft/sec)	Stack Diameter (in)	Assumed Stack Pressure at PID Port (in Hg)	Flow Rate (DSCFM)	Vacuum Applied (in Hg)	Measured PPM ("wet")	Elapsed Time Interval (min)	Calibration Gas	Direct Liquid Product Volume Removed (gal)	Liquid Mass Removed (lbs)	Product Volume Removed from Vapor (gal)	Vapor Mass Removed (lbs)	Total Product Volume Removed (gal)	Total Product Mass Removed (lbs)
	T _S	V	D	P	Q _{STD}	P _V	PPM _W	ET _M	C _G	VOL	Mass	VOL	Mass	VOL	Mass
7/30/2004	78	400	6	0.0	4476	23.0	200,000	15	Methane	2.5	15.6	75	504		
	85	400	6	0.0	4380	23.0	200,000	15	Methane			75	498		
	86	400	6	0.0	4366	23.0	200,000	15	Methane			74	497		
	87	400	6	0.0	4352	23.0	200,000	15	Methane			74	496		
	87	400	6	0.0	4352	23.0	200,000	15	Methane			74	496		
	88	400	6	0.0	4337	23.0	195,332	15	Methane			72	483		
	88	400	6	0.0	4337	23.0	178,688	15	Methane			66	442		
	89	400	6	0.0	4323	23.0	161,460	15	Methane			60	399		
	89	400	6	0.0	4323	23.0	148,456	15	Methane			55	367		
TOTAL for 30 Jul 2004														629	4,198
8/8/2004	83	400	6	0.0	4408	21.0	200,000	15	Methane	2.5	15.6	75	500		
	93	400	6	0.0	4264	21.0	200,000	15	Methane			73	491		
	95	400	6	0.0	4234	21.0	200,000	15	Methane			73	489		
	97	400	6	0.0	4209	21.0	200,000	15	Methane			73	487		
	98	400	6	0.0	4187	21.0	200,000	15	Methane			73	486		
	99	400	6	0.0	4171	21.0	195,272	15	Methane			71	474		
	100	400	6	0.0	4155	21.0	186,468	15	Methane			68	452		
	101	400	6	0.0	4139	21.0	175,096	15	Methane			63	423		
	100	400	6	0.0	4155	20.0	165,052	15	Methane			60	400		
	99	400	6	0.0	4171	20.0	158,392	15	Methane			58	384		
TOTAL for 08 Aug 2004														689	4,601
9/25/2004	78	400	6	0.0	4476	19.0	200,000	15	Methane	1.0	6.3	75	504		
	86	400	6	0.0	4366	19.0	200,000	15	Methane			74	497		
	88	400	6	0.0	4337	19.0	200,000	15	Methane			74	495		
	89	400	6	0.0	4323	19.0	200,000	15	Methane			74	494		
	89	400	6	0.0	4323	19.0	200,000	15	Methane			74	494		
	90	400	6	0.0	4309	19.0	187,380	15	Methane			69	462		
	91	400	6	0.0	4294	19.0	174,024	15	Methane			64	428		
	92	400	6	0.0	4279	19.0	159,596	15	Methane			59	392		
	92	400	6	0.0	4279	18.0	139,084	15	Methane			51	342		
	TOTAL for 25 Sep 2004														

Table B-4

AFVR Removal Volume Calculations - Well RR-12

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Date	Stack Temperature (F°)	Stack Gas Velocity (ft/sec)	Stack Diameter (in)	Assumed Stack Pressure at PID Port (in Hg)	Flow Rate (DSCFM)	Vacuum Applied (in Hg)	Measured PPM ("wet")	Elapsed Time Interval (min)	Calibration Gas	Direct Liquid Product Volume Removed (gal)	Liquid Mass Removed (lbs)	Product Volume Removed from Vapor (gal)	Vapor Mass Removed (lbs)	Total Product Volume Removed (gal)	Total Product Mass Removed (lbs)
	T _S	V	D	P	Q _{STD}	P _V	PPM _W	ET _M	C _G	VOL	Mass	VOL	Mass	VOL	Mass
10/8/2004	75	400	6	0.0	4515	18.0	200,000	15	Methane	0.5	3.1	76	507		
	81	400	6	0.0	4435	18.0	200,000	15	Methane			75	501		
	82	400	6	0.0	4421	18.0	200,000	15	Methane			75	500		
	84	400	6	0.0	4394	18.0	197,972	15	Methane			74	494		
	84	400	6	0.0	4394	18.0	188,312	15	Methane			70	470		
	85	400	6	0.0	4380	18.0	180,716	15	Methane			67	450		
	85	400	6	0.0	4380	18.0	169,164	15	Methane			63	421		
	85	400	6	0.0	4380	18.0	161,340	15	Methane			60	402		
	85	400	6	0.0	4380	17.0	153,976	15	Methane			57	383		
TOTAL for 08 Oct 2004														618	4,131
11/13/2004	47	400	6	0.0	4855	18.0	200,000	15	Methane	1.0	6.3	80	535		
	52	400	6	0.0	4797	18.0	200,000	15	Methane			79	530		
	53	400	6	0.0	4784	18.0	200,000	15	Methane			79	529		
	53	400	6	0.0	4784	18.0	200,000	15	Methane			79	529		
	53	400	6	0.0	4784	18.0	200,000	15	Methane			79	529		
	54	400	6	0.0	4773	18.0	188,304	15	Methane			74	497		
	54	400	6	0.0	4773	18.0	174,204	15	Methane			69	460		
	54	400	6	0.0	4773	18.0	160,852	15	Methane			64	424		
	54	400	6	0.0	4773	18.0	147,940	15	Methane			58	390		
TOTAL for 13 Nov 2004														663	4,429
12/10/2004	71	400	6	0.0	4566	23.0	200,000	15	Methane	1.0	6.3	76	511		
	78	400	6	0.0	4476	23.0	200,000	15	Methane			75	504		
	78	400	6	0.0	4476	23.0	200,000	15	Methane			75	504		
	79	400	6	0.0	4462	23.0	200,000	15	Methane			75	503		
	79	400	6	0.0	4462	23.0	195,316	15	Methane			74	491		
	80	400	6	0.0	4449	23.0	184,712	15	Methane			69	464		
	80	400	6	0.0	4449	23.0	175,676	15	Methane			66	441		
	79	400	6	0.0	4462	23.0	163,012	15	Methane			61	410		
	79	400	6	0.0	4462	23.0	150,396	15	Methane			57	378		
TOTAL for 10 Dec 2004														631	4,214

Table B-4

AFVR Removal Volume Calculations - Well RR-12

(Page 6 of 8)

Date	Stack Temperature (F°)	Stack Gas Velocity (ft/sec)	Stack Diameter (in)	Assumed Stack Pressure at PID Port (in Hg)	Flow Rate (DSCFM)	Vacuum Applied (in Hg)	Measured PPM ("wet")	Elapsed Time Interval (min)	Calibration Gas	Direct Liquid Product Volume Removed (gal)	Liquid Mass Removed (lbs)	Product Volume Removed from Vapor (gal)	Vapor Mass Removed (lbs)	Total Product Volume Removed (gal)	Total Product Mass Removed (lbs)
	T _S	V	D	P	Q _{STD}	P _V	PPM _W	ET _M	C _G	VOL	Mass	VOL	Mass	VOL	Mass
12/21/2004	45	400	6	0.0	4878	24.0	200,000	15	Methane	1.0	6.3	80	537		
	49	400	6	0.0	4831	24.0	200,000	15	Methane			80	533		
	49	400	6	0.0	4831	24.0	200,000	15	Methane			80	533		
	50	400	6	0.0	4819	24.0	193,260	15	Methane			77	514		
	51	400	6	0.0	4808	23.0	178,352	15	Methane			71	473		
	50	400	6	0.0	4819	23.0	163,708	15	Methane			65	435		
	50	400	6	0.0	4819	23.0	145,908	15	Methane			58	388		
TOTAL for 21 Dec 2004														512	3,420
12/29/2004	39	400	6	0.0	4947	24.0	200,000	15	Methane	1.0	6.3	81	544		
	43	400	6	0.0	4901	24.0	200,000	15	Methane			81	539		
	44	400	6	0.0	4889	24.0	193,864	15	Methane			78	522		
	44	400	6	0.0	4889	24.0	184,228	15	Methane			74	496		
	45	400	6	0.0	4878	24.0	174,852	15	Methane			70	470		
	45	400	6	0.0	4878	24.0	163,372	15	Methane			66	439		
	45	400	6	0.0	4878	24.0	149,128	15	Methane			60	401		
TOTAL for 29 Dec 2004														511	3,416
1/7/2005	54	400	6	0.0	4773	24.0	200,000	15	Methane	1.0	6.3	79	528		
	59	400	6	0.0	4713	24.0	200,000	15	Methane			78	523		
	60	400	6	0.0	4701	24.0	200,000	15	Methane			78	522		
	62	400	6	0.0	4677	24.0	190,008	15	Methane			74	494		
	63	400	6	0.0	4665	24.0	175,588	15	Methane			68	455		
	65	400	6	0.0	4641	24.0	160,656	15	Methane			62	415		
	66	400	6	0.0	4629	24.0	145,640	15	Methane			56	376		
TOTAL for 07 Jan 2005														497	3,318
1/15/2005	46	400	6	0.0	4866	23.0	200,000	15	Methane	0.3	1.6	80	536		
	49	400	6	0.0	4831	23.0	194,764	15	Methane			78	519		
	49	400	6	0.0	4831	23.0	181,880	15	Methane			73	485		
	49	400	6	0.0	4831	23.0	170,452	15	Methane			68	454		
	48	400	6	0.0	4842	23.0	159,644	15	Methane			64	426		
	48	400	6	0.0	4842	23.0	146,116	15	Methane			58	390		
TOTAL for 15 Jan 2005														421	2,812

Table B-4

AFVR Removal Volume Calculations - Well RR-12

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Date	Stack Temperature (F°)	Stack Gas Velocity (ft/sec)	Stack Diameter (in)	Assumed Stack Pressure at PID Port (in Hg)	Flow Rate (DSCFM)	Vacuum Applied (in Hg)	Measured PPM ("wet")	Elapsed Time Interval (min)	Calibration Gas	Direct Liquid Product Volume Removed (gal)	Liquid Mass Removed (lbs)	Product Volume Removed from Vapor (gal)	Vapor Mass Removed (lbs)	Total Product Volume Removed (gal)	Total Product Mass Removed (lbs)
	T _S	V	D	P	Q _{STD}	P _V	PPM _W	ET _M	C _G	VOL	Mass	VOL	Mass	VOL	Mass
2/5/2005	52	400	6	0.0	4797	23.0	200,000	15	Methane	1.0	6.3	79	530		
	58	400	6	0.0	4725	23.0	200,000	15	Methane			78	524		
	59	400	6	0.0	4713	23.0	200,000	15	Methane			78	523		
	59	400	6	0.0	4713	23.0	193,640	15	Methane			76	506		
	60	400	6	0.0	4701	23.0	178,552	15	Methane			70	466		
	61	400	6	0.0	4689	23.0	163,580	15	Methane			64	426		
	61	400	6	0.0	4689	23.0	144,828	15	Methane			56	377		
TOTAL for 05 Feb 2005														503	3,357
2/12/2005	55	400	6	0.0	4761	23.0	200,000	15	Methane	1.5	9.4	79	527		
	62	400	6	0.0	4677	23.0	200,000	15	Methane			78	520		
	62	400	6	0.0	4677	23.0	200,000	15	Methane			78	520		
	63	400	6	0.0	4665	23.0	191,588	15	Methane			74	497		
	64	400	6	0.0	4653	23.0	177,100	15	Methane			69	458		
	64	400	6	0.0	4653	23.0	163,624	15	Methane			63	424		
	64	400	6	0.0	4653	23.0	150,136	15	Methane			58	389		
TOTAL for 12 Feb 2005														501	3,343
2/18/2005	44	400	6	0.0	4889	24.0	200,000	15	Methane	1.0	6.3	81	538		
	48	400	6	0.0	4842	24.0	200,000	15	Methane			80	534		
	49	400	6	0.0	4831	24.0	200,000	15	Methane			80	533		
	49	400	6	0.0	4831	24.0	190,444	15	Methane			76	507		
	48	400	6	0.0	4842	24.0	177,024	15	Methane			71	473		
	49	400	6	0.0	4831	24.0	158,856	15	Methane			63	423		
	48	400	6	0.0	4842	24.0	139,236	15	Methane			56	372		
TOTAL for 18 Feb 2005														507	3,387
2/25/2005	45	400	6		4878	23.0	200,000	15	Methane	0.8	4.7	80	537		
	49	400	6		4831	23.0	200,000	15	Methane			80	533		
	50	400	6		4819	23.0	200,000	15	Methane			80	532		
	50	400	6		4819	23.0	188,976	15	Methane			75	503		
	50	400	6		4819	23.0	176,508	15	Methane			70	469		
	51	400	6		4808	23.0	159,660	15	Methane			63	424		
	51	400	6		4808	23.0	143,324	15	Methane			57	380		
TOTAL for 25 Feb 2005														506	3,383

Table B-4

AFVR Removal Volume Calculations - Well RR-12

(Page 8 of 8)

Date	Stack Temperature (F°)	Stack Gas Velocity (ft/sec)	Stack Diameter (in)	Assumed Stack Pressure at PID Port (in Hg)	Flow Rate (DSCFM)	Vacuum Applied (in Hg)	Measured PPM ("wet")	Elapsed Time Interval (min)	Calibration Gas	Direct Liquid Product Volume Removed (gal)	Liquid Mass Removed (lbs)	Product Volume Removed from Vapor (gal)	Vapor Mass Removed (lbs)	Total Product Volume Removed (gal)	Total Product Mass Removed (lbs)
	T _S	V	D	P	Q _{STD}	P _V	PPM _W	ET _M	C _G	VOL	Mass	VOL	Mass	VOL	Mass
3/9/2005	40	400	6		4935	23.0	200,000	15	Methane	0.3	1.6	81	543		
	44	400	6		4889	23.0	200,000	15	Methane			81	538		
	45	400	6		4878	23.0	187,332	15	Methane			75	503		
	45	400	6		4878	23.0	174,068	15	Methane			70	468		
	45	400	6		4878	23.0	157,520	15	Methane			63	423		
	46	400	6		4866	23.0	138,532	15	Methane			56	371		
TOTAL for 09 Mar 2005														426	2,847
3/16/2005	38	400	6		4958	24.0	200,000	15	Methane	1.3	7.8	82	545		
	42	400	6		4912	24.0	200,000	15	Methane			81	540		
	43	400	6		4901	24.0	200,000	15	Methane			81	539		
	43	400	6		4901	24.0	194,252	15	Methane			78	524		
	44	400	6		4889	24.0	178,440	15	Methane			72	480		
	44	400	6		4889	24.0	161,740	15	Methane			65	435		
	45	400	6		4878	24.0	143,236	15	Methane			58	385		
TOTAL for 16 Mar 2005														517	3,456
3/23/2005	62	400	6		4677	24.0	200,000	15	Methane	0.3	1.6	78	520		
	68	400	6		4604	24.0	200,000	15	Methane			77	514		
	69	400	6		4591	24.0	200,000	15	Methane			77	513		
	70	400	6		4579	24.0	188,468	15	Methane			72	482		
	71	400	6		4566	24.0	173,808	15	Methane			66	444		
	71	400	6		4566	24.0	157,480	15	Methane			60	402		
	72	400	6		4554	24.0	139,220	15	Methane			53	355		
TOTAL for 23 Mar 2005														484	3,231

Table B-5

AFVR Removal Volume Calculations - Well RR-16

(Page 1 of 1)

Date	Stack Temperature (F°)	Stack Gas Velocity (ft/sec)	Stack Diameter (in)	Assumed Stack Pressure at PID Port (in Hg)	Flow Rate (DSCFM)	Vacuum Applied (in Hg)	Measured PPM ("wet")	Elapsed Time Interval (min)	Calibration Gas	Direct Liquid Product Volume Removed (gal)	Liquid Mass Removed (lbs)	Product Volume Removed from Vapor (gal)	Vapor Mass Removed (lbs)	Total Product Volume Removed (gal)	Total Product Mass Removed (lbs)
	T _S	V	D	P	Q _{STD}	P _V	PPM _W	ET _M	C _G	VOL	Mass	VOL	Mass	VOL	Mass
6/3/2004	78	400	6	0.0	4476	23.0	200,000	15	Methane	0.5	3.1	75	504		
	79	400	6	0.0	4462	23.0	200,000	15	Methane			75	503		
	79	400	6	0.0	4462	23.0	200,000	15	Methane			75	503		
	81	400	6	0.0	4435	23.0	200,000	15	Methane			75	501		
	82	400	6	0.0	4421	23.0	200,000	15	Methane			75	500		
	84	400	6	0.0	4394	23.0	200,000	15	Methane			75	499		
TOTAL for 03 Jun 2004														451	3,015
6/12/2004	75	400	6	0.0	4515	23.0	200,000	15	Methane	0.5	3.1	76	507		
	77	400	6	0.0	4488	23.0	200,000	15	Methane			76	505		
	77	400	6	0.0	4488	23.0	188,468	15	Methane			71	476		
	79	400	6	0.0	4462	23.0	178,264	15	Methane			67	449		
	81	400	6	0.0	4435	23.0	168,636	15	Methane			63	423		
	83	400	6	0.0	4408	23.0	163,540	15	Methane			61	409		
	84	400	6	0.0	4394	23.0	154,320	15	Methane			58	385		
TOTAL for 12 Jun 2004														472	3,156
6/20/2004	94	400	6	0.0	4250	23.0	200,000	15	Methane	0.5	3.1	73	490		
	95	400	6	0.0	4234	23.0	200,000	15	Methane			73	489		
	97	400	6	0.0	4209	23.0	200,000	15	Methane			73	487		
	98	400	6	0.0	4187	23.0	192,548	15	Methane			70	468		
	100	400	6	0.0	4155	23.0	178,286	15	Methane			65	432		
	100	400	6	0.0	4155	23.0	167,688	15	Methane			61	406		
	101	400	6	0.0	4139	23.0	161,914	15	Methane			59	391		
TOTAL for 20 Jun 2004														474	3,166
10/8/2004	76	400	6	0.0	4501	18.0	200,000	15	Methane	0.3	1.6	76	506		
	83	400	6	0.0	4408	18.0	200,000	15	Methane			75	500		
	84	400	6	0.0	4394	18.0	195,372	15	Methane			73	487		
	86	400	6	0.0	4366	18.0	182,844	15	Methane			68	454		
	86	400	6	0.0	4366	17.0	171,720	15	Methane			64	427		
	87	400	6	0.0	4352	17.0	158,500	15	Methane			59	393		
	86	400	6	0.0	4366	17.0	141,792	15	Methane			53	352		
TOTAL for 08 Oct 2004														467	3,120

Table B-6

AFVR Removal Volume Calculations - Well RR-18

(Page 1 of 9)

Date	Stack Temperature (F°)	Stack Gas Velocity (ft/sec)	Stack Diameter (in)	Assumed Stack Pressure at PID Port (in Hg)	Flow Rate (DSCFM)	Vacuum Applied (in Hg)	Measured PPM ("wet")	Elapsed Time Interval (min)	Calibration Gas	Direct Liquid Product Volume Removed (gal)	Liquid Mass Removed (lbs)	Product Volume Removed from Vapor (gal)	Vapor Mass Removed (lbs)	Total Product Volume Removed (gal)	Total Product Mass Removed (lbs)
	T _S	V	D	P	Q _{STD}	P _V	PPM _W	ET _M	C _G	VOL	Mass	VOL	Mass	VOL	Mass
5/28/2004	77	400	6	0.0	4488	23.0	200,000	15	Methane	2.0	12.5	76	505		
	79	400	6	0.0	4462	23.0	200,000	15	Methane			75	503		
	80	400	6	0.0	4449	23.0	200,000	15	Methane			75	502		
	80	400	6	0.0	4449	23.0	200,000	15	Methane			75	502		
	82	400	6	0.0	4421	23.0	200,000	15	Methane			75	500		
	84	400	6	0.0	4394	23.0	200,000	15	Methane			75	499		
	84	400	6	0.0	4394	23.0	195,624	15	Methane			73	488		
	85	400	6	0.0	4380	23.0	181,504	15	Methane			68	452		
	85	400	6	0.0	4380	22.0	166,586	15	Methane			62	415		
	85	400	6	0.0	4380	22.0	154,610	15	Methane			58	385		
TOTAL for 28 May 2004														713	4,764
6/3/2004	84	400	6	0.0	4394	23.0	200,000	15	Methane	1.5	9.4	75	499		
	85	400	6	0.0	4380	23.0	200,000	15	Methane			75	498		
	87	400	6	0.0	4352	23.0	200,000	15	Methane			74	496		
	89	400	6	0.0	4323	23.0	200,000	15	Methane			74	494		
	90	400	6	0.0	4309	23.0	192,448	15	Methane			71	475		
	93	400	6	0.0	4264	23.0	185,440	15	Methane			68	455		
	94	400	6	0.0	4250	23.0	174,786	15	Methane			64	428		
	94	400	6	0.0	4250	23.0	165,462	15	Methane			61	405		
	95	400	6	0.0	4234	23.0	154,112	15	Methane			56	377		
	TOTAL for 03 Jun 2004														
6/11/2004	92	400	6	0.0	4279	23.0	200,000	15	Methane	1.0	6.3	74	491		
	98	400	6	0.0	4187	23.0	200,000	15	Methane			73	486		
	101	400	6	0.0	4139	23.0	200,000	15	Methane			72	484		
	101	400	6	0.0	4139	23.0	200,000	15	Methane			72	484		
	102	400	6	0.0	4123	23.0	189,420	15	Methane			68	457		
	102	400	6	0.0	4123	23.0	172,148	15	Methane			62	415		
	101	400	6	0.0	4139	23.0	166,704	15	Methane			60	403		
	102	400	6	0.0	4123	23.0	153,550	15	Methane			55	371		
TOTAL for 11 Jun 2004														539	3,597

Table B-6

AFVR Removal Volume Calculations - Well RR-18

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Date	Stack Temperature (F°)	Stack Gas Velocity (ft/sec)	Stack Diameter (in)	Assumed Stack Pressure at PID Port (in Hg)	Flow Rate (DSCFM)	Vacuum Applied (in Hg)	Measured PPM ("wet")	Elapsed Time Interval (min)	Calibration Gas	Direct Liquid Product Volume Removed (gal)	Liquid Mass Removed (lbs)	Product Volume Removed from Vapor (gal)	Vapor Mass Removed (lbs)	Total Product Volume Removed (gal)	Total Product Mass Removed (lbs)
	T _S	V	D	P	Q _{STD}	P _V	PPM _W	ET _M	C _G	VOL	Mass	VOL	Mass	VOL	Mass
6/18/2004	87	400	6	0.0	4352	23.0	200,000	15	Methane	2.0	12.5	74	496		
	89	400	6	0.0	4323	23.0	200,000	15	Methane			74	494		
	91	400	6	0.0	4294	23.0	200,000	15	Methane			74	492		
	91	400	6	0.0	4294	23.0	200,000	15	Methane			74	492		
	93	400	6	0.0	4264	23.0	200,000	15	Methane			73	491		
	93	400	6	0.0	4264	23.0	186,420	15	Methane			68	457		
	94	400	6	0.0	4250	23.0	174,668	15	Methane			64	428		
	95	400	6	0.0	4234	23.0	165,464	15	Methane			61	404		
	95	400	6	0.0	4234	23.0	158,824	15	Methane			58	388		
TOTAL for 18 Jun 2004														622	4,155
6/25/2004	88	400	6	0.0	4337	23.0	200,000	15	Methane	1.5	9.4	74	495		
	97	400	6	0.0	4209	23.0	200,000	15	Methane			73	487		
	99	400	6	0.0	4171	23.0	200,000	15	Methane			73	485		
	100	400	6	0.0	4155	23.0	199,176	15	Methane			72	482		
	101	400	6	0.0	4139	23.0	191,540	15	Methane			69	463		
	101	400	6	0.0	4139	23.0	180,032	15	Methane			65	435		
	100	400	6	0.0	4155	23.0	171,092	15	Methane			62	414		
	99	400	6	0.0	4171	23.0	162,300	15	Methane			59	394		
	100	400	6	0.0	4155	22.0	154,476	15	Methane			56	374		
TOTAL for 25 Jun 2004														605	4,040
7/10/2004	94	400	6	0.0	4250	22.0	200,000	15	Methane	2.3	14.1	73	490		
	103	400	6	0.0	4106	22.0	200,000	15	Methane			72	482		
	104	400	6	0.0	4095	22.0	200,000	15	Methane			72	481		
	104	400	6	0.0	4095	22.0	200,000	15	Methane			72	481		
	105	400	6	0.0	4073	22.0	200,000	15	Methane			72	480		
	105	400	6	0.0	4073	22.0	191,092	15	Methane			69	459		
	105	400	6	0.0	4073	22.0	177,168	15	Methane			64	425		
	104	400	6	0.0	4095	22.0	166,420	15	Methane			60	400		
	104	400	6	0.0	4095	22.0	152,840	15	Methane			55	368		
TOTAL for 10 Jul 2004														611	4,079

Table B-6

AFVR Removal Volume Calculations - Well RR-18

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Date	Stack Temperature (F°)	Stack Gas Velocity (ft/sec)	Stack Diameter (in)	Assumed Stack Pressure at PID Port (in Hg)	Flow Rate (DSCFM)	Vacuum Applied (in Hg)	Measured PPM ("wet")	Elapsed Time Interval (min)	Calibration Gas	Direct Liquid Product Volume Removed (gal)	Liquid Mass Removed (lbs)	Product Volume Removed from Vapor (gal)	Vapor Mass Removed (lbs)	Total Product Volume Removed (gal)	Total Product Mass Removed (lbs)
	T _S	V	D	P	Q _{STD}	P _V	PPM _W	ET _M	C _G	VOL	Mass	VOL	Mass	VOL	Mass
7/15/2004	87	400	6	0.0	4352	23.0	200,000	15	Methane	2.0	12.5	74	496		
	94	400	6	0.0	4250	23.0	200,000	15	Methane			73	490		
	95	400	6	0.0	4234	23.0	200,000	15	Methane			73	489		
	95	400	6	0.0	4234	23.0	197,852	15	Methane			72	484		
	96	400	6	0.0	4219	22.0	189,256	15	Methane			69	462		
	96	400	6	0.0	4219	22.0	178,212	15	Methane			65	435		
	95	400	6	0.0	4234	22.0	169,400	15	Methane			62	414		
	96	400	6	0.0	4219	22.0	158,020	15	Methane			58	385		
	97	400	6	0.0	4209	23.0	143,936	15	Methane			52	350		
TOTAL for 15 Jul 2004														601	4,017
7/30/2004	87	400	6	0.0	4352	22.0	200,000	15	Methane	2.0	12.5	74	496		
	96	400	6	0.0	4219	22.0	200,000	15	Methane			73	488		
	96	400	6	0.0	4219	22.0	200,000	15	Methane			73	488		
	97	400	6	0.0	4209	22.0	200,000	15	Methane			73	487		
	97	400	6	0.0	4209	22.0	200,000	15	Methane			73	487		
	98	400	6	0.0	4187	22.0	190,664	15	Methane			69	463		
	97	400	6	0.0	4209	22.0	176,580	15	Methane			64	430		
	98	400	6	0.0	4187	22.0	163,080	15	Methane			59	396		
	98	400	6	0.0	4187	21.0	147,992	15	Methane			54	360		
TOTAL for 30 Jul 2004														615	4,108
8/8/2004	79	400	6	0.0	4462	21.0	200,000	15	Methane	2.0	12.5	75	503		
	90	400	6	0.0	4309	21.0	200,000	15	Methane			74	493		
	92	400	6	0.0	4279	21.0	200,000	15	Methane			74	491		
	93	400	6	0.0	4264	21.0	200,000	15	Methane			73	491		
	94	400	6	0.0	4250	21.0	200,000	15	Methane			73	490		
	95	400	6	0.0	4234	21.0	190,580	15	Methane			70	466		
	97	400	6	0.0	4209	21.0	174,932	15	Methane			64	426		
	97	400	6	0.0	4209	21.0	157,160	15	Methane			57	383		
	99	400	6	0.0	4171	21.0	141,632	15	Methane			51	344		
TOTAL for 08 Aug 2004														614	4,099

Table B-6

AFVR Removal Volume Calculations - Well RR-18

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Date	Stack Temperature (F°)	Stack Gas Velocity (ft/sec)	Stack Diameter (in)	Assumed Stack Pressure at PID Port (in Hg)	Flow Rate (DSCFM)	Vacuum Applied (in Hg)	Measured PPM ("wet")	Elapsed Time Interval (min)	Calibration Gas	Direct Liquid Product Volume Removed (gal)	Liquid Mass Removed (lbs)	Product Volume Removed from Vapor (gal)	Vapor Mass Removed (lbs)	Total Product Volume Removed (gal)	Total Product Mass Removed (lbs)
	T _S	V	D	P	Q _{STD}	P _V	PPM _W	ET _M	C _G	VOL	Mass	VOL	Mass	VOL	Mass
8/16/2004	85	400	6	0.0	4380	21.0	200,000	15	Methane	2.5	15.6	75	498		
	92	400	6	0.0	4279	21.0	200,000	15	Methane			74	491		
	94	400	6	0.0	4250	21.0	200,000	15	Methane			73	490		
	95	400	6	0.0	4234	21.0	200,000	15	Methane			73	489		
	96	400	6	0.0	4219	20.0	196,928	15	Methane			72	480		
	96	400	6	0.0	4219	20.0	187,820	15	Methane			69	458		
	96	400	6	0.0	4219	20.0	172,796	15	Methane			63	422		
	96	400	6	0.0	4219	20.0	162,564	15	Methane			59	397		
	97	400	6	0.0	4209	20.0	151,240	15	Methane			55	368		
TOTAL for 16 Aug 2004														615	4,108
8/27/2004	84	400	6	0.0	4394	20.0	200,000	15	Methane	2.3	14.1	75	499		
	90	400	6	0.0	4309	20.0	200,000	15	Methane			74	493		
	91	400	6	0.0	4294	20.0	200,000	15	Methane			74	492		
	92	400	6	0.0	4279	20.0	200,000	15	Methane			74	491		
	94	400	6	0.0	4250	20.0	200,000	15	Methane			73	490		
	94	400	6	0.0	4250	20.0	195,072	15	Methane			71	478		
	94	400	6	0.0	4250	20.0	177,052	15	Methane			65	433		
	93	400	6	0.0	4264	20.0	160,336	15	Methane			59	393		
	93	400	6	0.0	4264	20.0	147,668	15	Methane			54	362		
TOTAL for 27 Aug 2004														621	4,146
9/4/2004	80	400	6	0.0	4449	21.0	200,000	15	Methane	1.5	9.4	75	502		
	87	400	6	0.0	4352	21.0	200,000	15	Methane			74	496		
	88	400	6	0.0	4337	21.0	200,000	15	Methane			74	495		
	89	400	6	0.0	4323	21.0	200,000	15	Methane			74	494		
	89	400	6	0.0	4323	20.0	200,000	15	Methane			74	494		
	90	400	6	0.0	4309	20.0	189,252	15	Methane			70	467		
	90	400	6	0.0	4309	20.0	176,780	15	Methane			65	436		
	90	400	6	0.0	4309	20.0	165,932	15	Methane			61	409		
	91	400	6	0.0	4294	20.0	155,164	15	Methane			57	382		
TOTAL for 04 Sep 2004														627	4,185

Table B-6

AFVR Removal Volume Calculations - Well RR-18

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Date	Stack Temperature (F°)	Stack Gas Velocity (ft/sec)	Stack Diameter (in)	Assumed Stack Pressure at PID Port (in Hg)	Flow Rate (DSCFM)	Vacuum Applied (in Hg)	Measured PPM ("wet")	Elapsed Time Interval (min)	Calibration Gas	Direct Liquid Product Volume Removed (gal)	Liquid Mass Removed (lbs)	Product Volume Removed from Vapor (gal)	Vapor Mass Removed (lbs)	Total Product Volume Removed (gal)	Total Product Mass Removed (lbs)
	T _S	V	D	P	Q _{STD}	P _V	PPM _W	ET _M	C _G	VOL	Mass	VOL	Mass	VOL	Mass
10/9/2004	73	400	6	0.0	4540	18.0	200,000	15	Methane	1.5	9.4	76	509		
	80	400	6	0.0	4449	18.0	200,000	15	Methane			75	502		
	82	400	6	0.0	4421	18.0	200,000	15	Methane			75	500		
	83	400	6	0.0	4408	18.0	200,000	15	Methane			75	500		
	85	400	6	0.0	4380	17.0	200,000	15	Methane			75	498		
	85	400	6	0.0	4380	17.0	190,632	15	Methane			71	474		
	86	400	6	0.0	4366	17.0	175,196	15	Methane			65	435		
	87	400	6	0.0	4352	17.0	157,136	15	Methane			58	390		
	87	400	6	0.0	4352	17.0	139,968	15	Methane			52	347		
TOTAL for 09 Oct 2004														624	4,165
10/26/2004	59	400	6	0.0	4713	18.0	200,000	15	Methane	2.0	12.5	78	523		
	65	400	6	0.0	4641	18.0	200,000	15	Methane			77	517		
	67	400	6	0.0	4616	18.0	200,000	15	Methane			77	515		
	68	400	6	0.0	4604	18.0	200,000	15	Methane			77	514		
	69	400	6	0.0	4591	17.0	200,000	15	Methane			77	513		
	70	400	6	0.0	4579	17.0	181,340	15	Methane			69	464		
	71	400	6	0.0	4566	17.0	176,356	15	Methane			67	450		
	71	400	6	0.0	4566	17.0	162,968	15	Methane			62	416		
	71	400	6	0.0	4566	17.0	141,604	15	Methane			54	362		
TOTAL for 26 Oct 2004														642	4,286
11/13/2004	53	400	6	0.0	4784	18.0	200,000	15	Methane	1.5	9.4	79	529		
	58	400	6	0.0	4725	18.0	200,000	15	Methane			78	524		
	59	400	6	0.0	4713	18.0	200,000	15	Methane			78	523		
	60	400	6	0.0	4701	18.0	194,528	15	Methane			76	507		
	60	400	6	0.0	4701	18.0	183,148	15	Methane			72	478		
	60	400	6	0.0	4701	18.0	173,076	15	Methane			68	451		
	60	400	6	0.0	4701	18.0	163,420	15	Methane			64	426		
	61	400	6	0.0	4689	18.0	149,704	15	Methane			58	390		
TOTAL for 13 Nov 2004														575	3,837

Table B-6

AFVR Removal Volume Calculations - Well RR-18

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Date	Stack Temperature (F°)	Stack Gas Velocity (ft/sec)	Stack Diameter (in)	Assumed Stack Pressure at PID Port (in Hg)	Flow Rate (DSCFM)	Vacuum Applied (in Hg)	Measured PPM ("wet")	Elapsed Time Interval (min)	Calibration Gas	Direct Liquid Product Volume Removed (gal)	Liquid Mass Removed (lbs)	Product Volume Removed from Vapor (gal)	Vapor Mass Removed (lbs)	Total Product Volume Removed (gal)	Total Product Mass Removed (lbs)
	T _S	V	D	P	Q _{STD}	P _V	PPM _W	ET _M	C _G	VOL	Mass	VOL	Mass	VOL	Mass
12/12/2004	50	400	6	0.0	4819	23.0	200,000	15	Methane	2.5	15.6	80	532		
	56	400	6	0.0	4749	23.0	200,000	15	Methane			79	526		
	56	400	6	0.0	4749	23.0	200,000	15	Methane			79	526		
	57	400	6	0.0	4738	23.0	200,000	15	Methane			79	525		
	58	400	6	0.0	4725	23.0	196,804	15	Methane			77	515		
	58	400	6	0.0	4725	23.0	185,816	15	Methane			73	487		
	59	400	6	0.0	4713	23.0	173,180	15	Methane			68	453		
	60	400	6	0.0	4701	23.0	161,148	15	Methane			63	420		
	61	400	6	0.0	4689	22.0	151,496	15	Methane			59	394		
TOTAL for 12 Dec 2004														658	4,393
12/21/2004	40	400	6	0.0	4935	24.0	200,000	15	Methane	2.5	15.6	81	543		
	43	400	6	0.0	4901	24.0	200,000	15	Methane			81	539		
	44	400	6	0.0	4889	24.0	196,520	15	Methane			79	529		
	44	400	6	0.0	4889	24.0	187,248	15	Methane			75	504		
	45	400	6	0.0	4878	24.0	174,304	15	Methane			70	468		
	46	400	6	0.0	4866	24.0	162,696	15	Methane			65	436		
	46	400	6	0.0	4866	24.0	150,236	15	Methane			60	403		
	TOTAL for 21 Dec 2004														
12/29/2004	51	400	6	0.0	4808	24.0	200,000	15	Methane	1.5	9.4	79	531		
	57	400	6	0.0	4738	24.0	200,000	15	Methane			79	525		
	57	400	6	0.0	4738	24.0	200,000	15	Methane			79	525		
	58	400	6	0.0	4725	24.0	200,000	15	Methane			78	524		
	58	400	6	0.0	4725	23.0	194,208	15	Methane			76	509		
	58	400	6	0.0	4725	23.0	181,220	15	Methane			71	475		
	57	400	6	0.0	4738	23.0	163,924	15	Methane			64	430		
	57	400	6	0.0	4738	23.0	145,752	15	Methane			57	382		
	TOTAL for 29 Dec 2004														

Table B-6

AFVR Removal Volume Calculations - Well RR-18

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Date	Stack Temperature (F°)	Stack Gas Velocity (ft/sec)	Stack Diameter (in)	Assumed Stack Pressure at PID Port (in Hg)	Flow Rate (DSCFM)	Vacuum Applied (in Hg)	Measured PPM ("wet")	Elapsed Time Interval (min)	Calibration Gas	Direct Liquid Product Volume Removed (gal)	Liquid Mass Removed (lbs)	Product Volume Removed from Vapor (gal)	Vapor Mass Removed (lbs)	Total Product Volume Removed (gal)	Total Product Mass Removed (lbs)
	T _S	V	D	P	Q _{STD}	P _V	PPM _W	ET _M	C _G	VOL	Mass	VOL	Mass	VOL	Mass
1/7/2005	66	400	6	0.0	4629	24.0	200,000	15	Methane	2.5	15.6	77	516		
	73	400	6	0.0	4540	24.0	200,000	15	Methane			76	509		
	74	400	6	0.0	4527	24.0	200,000	15	Methane			76	508		
	75	400	6	0.0	4515	24.0	200,000	15	Methane			76	507		
	75	400	6	0.0	4515	23.0	200,000	15	Methane			76	507		
	75	400	6	0.0	4515	23.0	195,416	15	Methane			74	495		
	76	400	6	0.0	4501	23.0	179,892	15	Methane			68	455		
	75	400	6	0.0	4515	23.0	163,340	15	Methane			62	414		
	76	400	6	0.0	4501	23.0	142,976	15	Methane			54	362		
TOTAL for 07 Jan 2005														642	4,289
1/25/2005	40	400	6	0.0	4935	24.0	200,000	15	Methane	1.3	7.8	81	543		
	45	400	6	0.0	4878	24.0	200,000	15	Methane			80	537		
	46	400	6	0.0	4866	24.0	200,000	15	Methane			80	536		
	46	400	6	0.0	4866	24.0	194,132	15	Methane			78	520		
	47	400	6	0.0	4855	24.0	180,192	15	Methane			72	482		
	48	400	6	0.0	4842	24.0	163,664	15	Methane			65	437		
	48	400	6	0.0	4842	24.0	148,772	15	Methane			59	397		
TOTAL for 25 Jan 2005														518	3,460
1/15/2005	38	400	6	0.0	4958	24.0	200,000	15	Methane	1.5	9.4	82	545		
	43	400	6	0.0	4901	24.0	200,000	15	Methane			81	539		
	44	400	6	0.0	4889	24.0	200,000	15	Methane			81	538		
	44	400	6	0.0	4889	24.0	188,472	15	Methane			76	507		
	44	400	6	0.0	4889	24.0	174,108	15	Methane			70	469		
	45	400	6	0.0	4878	24.0	158,532	15	Methane			64	426		
	45	400	6	0.0	4878	24.0	140,036	15	Methane			56	376		
TOTAL for 15 Jan 2005														510	3,409
2/5/2005	49	400	6	0.0	4831	24.0	200,000	15	Methane	1.5	9.4	80	533		
	54	400	6	0.0	4773	24.0	200,000	15	Methane			79	528		
	55	400	6	0.0	4761	24.0	200,000	15	Methane			79	527		
	55	400	6	0.0	4761	24.0	191,992	15	Methane			76	506		
	56	400	6	0.0	4749	24.0	180,420	15	Methane			71	474		
	56	400	6	0.0	4749	24.0	164,796	15	Methane			65	433		
	57	400	6	0.0	4738	24.0	153,092	15	Methane			60	402		
TOTAL for 05 Feb 2005														511	3,412

Table B-6

AFVR Removal Volume Calculations - Well RR-18

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Date	Stack Temperature (F°)	Stack Gas Velocity (ft/sec)	Stack Diameter (in)	Assumed Stack Pressure at PID Port (in Hg)	Flow Rate (DSCFM)	Vacuum Applied (in Hg)	Measured PPM ("wet")	Elapsed Time Interval (min)	Calibration Gas	Direct Liquid Product Volume Removed (gal)	Liquid Mass Removed (lbs)	Product Volume Removed from Vapor (gal)	Vapor Mass Removed (lbs)	Total Product Volume Removed (gal)	Total Product Mass Removed (lbs)
	T _S	V	D	P	Q _{STD}	P _V	PPM _W	ET _M	C _G	VOL	Mass	VOL	Mass	VOL	Mass
2/12/2005	52	400	6	0.0	4797	24.0	200,000	15	Methane	1.5	9.4	79	530		
	57	400	6	0.0	4738	24.0	200,000	15	Methane			79	525		
	59	400	6	0.0	4713	24.0	200,000	15	Methane			78	523		
	60	400	6	0.0	4701	24.0	196,672	15	Methane			77	513		
	60	400	6	0.0	4701	24.0	185,036	15	Methane			72	483		
	61	400	6	0.0	4689	24.0	174,952	15	Methane			68	455		
	62	400	6	0.0	4677	24.0	161,376	15	Methane			63	419		
	62	400	6	0.0	4677	24.0	152,904	15	Methane			59	397		
TOTAL for 12 Feb 2005														577	3,854
2/19/2005	40	400	6	0.0	4935	24.0	200,000	15	Methane	0.5	3.1	81	543		
	44	400	6	0.0	4889	24.0	200,000	15	Methane			81	538		
	44	400	6	0.0	4889	24.0	200,000	15	Methane			81	538		
	45	400	6	0.0	4878	24.0	186,940	15	Methane			75	502		
	46	400	6	0.0	4866	24.0	175,468	15	Methane			70	470		
	46	400	6	0.0	4866	24.0	159,408	15	Methane			64	427		
	46	400	6	0.0	4866	24.0	139,884	15	Methane			56	375		
TOTAL for 19 Feb 2005														509	3,397
2/26/2005	39	400	6		4947	24.0	200,000	15	Methane	2.0	12.5	81	544		
	45	400	6		4878	24.0	200,000	15	Methane			80	537		
	46	400	6		4866	24.0	200,000	15	Methane			80	536		
	47	400	6		4855	24.0	187,772	15	Methane			75	502		
	47	400	6		4855	24.0	172,476	15	Methane			69	461		
	49	400	6		4831	24.0	154,760	15	Methane			62	412		
	49	400	6		4831	24.0	134,004	15	Methane			53	357		
TOTAL for 26 Feb 2005														504	3,363
3/9/2005	47	400	6		4855	22.0	200,000	15	Methane	2.0	12.5	80	535		
	52	400	6		4797	22.0	200,000	15	Methane			79	530		
	52	400	6		4797	22.0	200,000	15	Methane			79	530		
	53	400	6		4784	22.0	197,368	15	Methane			78	522		
	53	400	6		4784	22.0	186,352	15	Methane			74	493		
	54	400	6		4773	22.0	174,436	15	Methane			69	460		
	53	400	6		4784	22.0	162,896	15	Methane			64	431		
	51	400	6		4808	22.0	147,376	15	Methane			59	391		
TOTAL for 09 Mar 2005														585	3,904

Table B-6

AFVR Removal Volume Calculations - Well RR-18

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Date	Stack Temperature (F°)	Stack Gas Velocity (ft/sec)	Stack Diameter (in)	Assumed Stack Pressure at PID Port (in Hg)	Flow Rate (DSCFM)	Vacuum Applied (in Hg)	Measured PPM ("wet")	Elapsed Time Interval (min)	Calibration Gas	Direct Liquid Product Volume Removed (gal)	Liquid Mass Removed (lbs)	Product Volume Removed from Vapor (gal)	Vapor Mass Removed (lbs)	Total Product Volume Removed (gal)	Total Product Mass Removed (lbs)
	T _S	V	D	P	Q _{STD}	P _V	PPM _W	ET _M	C _G	VOL	Mass	VOL	Mass	VOL	Mass
3/16/2005	41	400	6		4923	24.0	200,000	15	Methane	2.3	14.1	81	541		
	46	400	6		4866	24.0	200,000	15	Methane			80	536		
	46	400	6		4866	24.0	200,000	15	Methane			80	536		
	47	400	6		4855	24.0	200,000	15	Methane			80	535		
	47	400	6		4855	23.0	191,264	15	Methane			77	512		
	46	400	6		4866	23.0	175,608	15	Methane			70	471		
	47	400	6		4855	23.0	157,828	15	Methane			63	422		
	47	400	6		4855	23.0	136,028	15	Methane			54	364		
TOTAL for 16 Mar 2005														589	3,931
3/23/2005	66	400	6		4629	24.0	200,000	15	Methane	1.5	9.4	77	516		
	73	400	6		4540	24.0	200,000	15	Methane			76	509		
	73	400	6		4540	24.0	200,000	15	Methane			76	509		
	74	400	6		4527	24.0	200,000	15	Methane			76	508		
	74	400	6		4527	24.0	200,000	15	Methane			76	508		
	74	400	6		4527	24.0	192,576	15	Methane			73	489		
	75	400	6		4515	24.0	178,524	15	Methane			68	453		
	75	400	6		4515	24.0	161,468	15	Methane			61	409		
	75	400	6		4515	23.0	142,836	15	Methane			54	362		
TOTAL for 23 Mar 2005														640	4,272

Table B-7

AFVR Removal Volume Calculations - Well RR-20

(Page 1 of 7)

Date	Stack Temperature (F°)	Stack Gas Velocity (ft/sec)	Stack Diameter (in)	Assumed Stack Pressure at PID Port (in Hg)	Flow Rate (DSCFM)	Vacuum Applied (in Hg)	Measured PPM ("wet")	Elapsed Time Interval (min)	Calibration Gas	Direct Liquid Product Volume Removed (gal)	Liquid Mass Removed (lbs)	Product Volume Removed from Vapor (gal)	Vapor Mass Removed (lbs)	Total Product Volume Removed (gal)	Total Product Mass Removed (lbs)
	T _S	V	D	P	Q _{STD}	P _V	PPM _W	ET _M	C _G	VOL	Mass	VOL	Mass	VOL	Mass
5/28/2004	94	400	6	0.0	4250	23.0	200,000	15	Methane	0.5	3.1	73.3	489.7		
	97	400	6	0.0	4209	23.0	200,000	15	Methane			72.9	487.0		
	99	400	6	0.0	4171	23.0	200,000	15	Methane			72.6	485.3		
	99	400	6	0.0	4171	23.0	192,440	15	Methane			69.9	466.9		
	100	400	6	0.0	4155	23.0	186,726	15	Methane			67.7	452.3		
	101	400	6	0.0	4139	23.0	173,544	15	Methane			62.8	419.6		
	100	400	6	0.0	4155	23.0	166,644	15	Methane			60.4	403.6		
	102	400	6	0.0	4123	23.0	156,740	15	Methane			56.6	378.3		
TOTAL for 28 May 2004														537	3,586
6/20/2004	86	400	6	0.0	4366	23.0	200,000	15	Methane	1.8	10.9	74.4	496.8		
	88	400	6	0.0	4337	23.0	200,000	15	Methane			74.1	495.0		
	91	400	6	0.0	4294	23.0	200,000	15	Methane			73.7	492.3		
	91	400	6	0.0	4294	23.0	200,000	15	Methane			73.7	492.3		
	93	400	6	0.0	4264	23.0	200,000	15	Methane			73.4	490.5		
	94	400	6	0.0	4250	23.0	184,480	15	Methane			67.6	451.7		
	93	400	6	0.0	4264	23.0	173,264	15	Methane			63.6	425.0		
	94	400	6	0.0	4250	23.0	165,564	15	Methane			60.7	405.3		
	96	400	6	0.0	4219	23.0	158,316	15	Methane			57.8	386.2		
TOTAL for 20 Jun 2004														621	4,146
7/10/2004	89	400	6	0.0	4323	23.0	200,000	15	Methane	3.5	21.9	74.0	494.1		
	97	400	6	0.0	4209	23.0	200,000	15	Methane			72.9	487.0		
	98	400	6	0.0	4187	23.0	200,000	15	Methane			72.8	486.1		
	99	400	6	0.0	4171	23.0	200,000	15	Methane			72.6	485.3		
	99	400	6	0.0	4171	22.0	200,000	15	Methane			72.6	485.3		
	100	400	6	0.0	4155	22.0	192,936	15	Methane			70.0	467.3		
	101	400	6	0.0	4139	22.0	186,392	15	Methane			67.5	450.6		
	101	400	6	0.0	4139	22.0	176,476	15	Methane			63.9	426.7		
	102	400	6	0.0	4123	22.0	167,972	15	Methane			60.7	405.4		
	102	400	6	0.0	4123	22.0	157,740	15	Methane			57.0	380.7		
TOTAL for 10 Jul 2004														687	4,590

Table B-7

AFVR Removal Volume Calculations - Well RR-20

(Page 2 of 7)

Date	Stack Temperature (F°)	Stack Gas Velocity (ft/sec)	Stack Diameter (in)	Assumed Stack Pressure at PID Port (in Hg)	Flow Rate (DSCFM)	Vacuum Applied (in Hg)	Measured PPM ("wet")	Elapsed Time Interval (min)	Calibration Gas	Direct Liquid Product Volume Removed (gal)	Liquid Mass Removed (lbs)	Product Volume Removed from Vapor (gal)	Vapor Mass Removed (lbs)	Total Product Volume Removed (gal)	Total Product Mass Removed (lbs)
	T _S	V	D	P	Q _{STD}	P _V	PPM _W	ET _M	C _G	VOL	Mass	VOL	Mass	VOL	Mass
7/15/2004	78	400	6	0.0	4476	23.0	200,000	15	Methane	3.3	20.3	75.5	504.2		
	86	400	6	0.0	4366	23.0	200,000	15	Methane			74.4	496.8		
	87	400	6	0.0	4352	23.0	200,000	15	Methane			74.2	495.9		
	87	400	6	0.0	4352	23.0	200,000	15	Methane			74.2	495.9		
	88	400	6	0.0	4337	23.0	200,000	15	Methane			74.1	495.0		
	89	400	6	0.0	4323	23.0	200,000	15	Methane			74.0	494.1		
	89	400	6	0.0	4323	23.0	198,488	15	Methane			73.4	490.4		
	89	400	6	0.0	4323	23.0	187,472	15	Methane			69.3	463.2		
	90	400	6	0.0	4309	23.0	176,452	15	Methane			65.1	435.1		
	90	400	6	0.0	4309	23.0	166,076	15	Methane			61.3	409.6		
90	400	6	0.0	4309	23.0	152,980	15	Methane	56.5	377.3					
TOTAL for 15 Jul 2004														775	5,178
7/30/2004	82	400	6	0.0	4421	23.0	200,000	15	Methane	2.5	15.6	74.9	500.5		
	90	400	6	0.0	4309	23.0	200,000	15	Methane			73.8	493.2		
	91	400	6	0.0	4294	23.0	200,000	15	Methane			73.7	492.3		
	93	400	6	0.0	4264	23.0	198,232	15	Methane			72.8	486.2		
	94	400	6	0.0	4250	22.0	192,652	15	Methane			70.6	471.7		
	94	400	6	0.0	4250	22.0	186,816	15	Methane			68.5	457.4		
	95	400	6	0.0	4234	22.0	174,488	15	Methane			63.8	426.4		
	95	400	6	0.0	4234	22.0	164,340	15	Methane			60.1	401.6		
	95	400	6	0.0	4234	22.0	158,400	15	Methane			58.0	387.1		
TOTAL for 30 Jul 2004														619	4,132
8/8/2004	73	400	6	0.0	4540	22.0	200,000	15	Methane	1.8	10.9	76.2	509.0		
	82	400	6	0.0	4421	22.0	200,000	15	Methane			74.9	500.5		
	83	400	6	0.0	4408	22.0	200,000	15	Methane			74.8	499.6		
	84	400	6	0.0	4394	22.0	200,000	15	Methane			74.6	498.7		
	85	400	6	0.0	4380	21.0	195,064	15	Methane			72.7	485.5		
	87	400	6	0.0	4352	21.0	185,248	15	Methane			68.8	459.3		
	87	400	6	0.0	4352	21.0	173,796	15	Methane			64.5	430.9		
	88	400	6	0.0	4337	21.0	162,200	15	Methane			60.1	401.5		
	89	400	6	0.0	4323	21.0	151,724	15	Methane			56.1	374.8		
TOTAL for 08 Aug 2004														624	4,171

Table B-7

AFVR Removal Volume Calculations - Well RR-20

(Page 3 of 7)

Date	Stack Temperature (F°)	Stack Gas Velocity (ft/sec)	Stack Diameter (in)	Assumed Stack Pressure at PID Port (in Hg)	Flow Rate (DSCFM)	Vacuum Applied (in Hg)	Measured PPM ("wet")	Elapsed Time Interval (min)	Calibration Gas	Direct Liquid Product Volume Removed (gal)	Liquid Mass Removed (lbs)	Product Volume Removed from Vapor (gal)	Vapor Mass Removed (lbs)	Total Product Volume Removed (gal)	Total Product Mass Removed (lbs)
	T _S	V	D	P	Q _{STD}	P _V	PPM _W	ET _M	C _G	VOL	Mass	VOL	Mass	VOL	Mass
9/4/2004	76	400	6	0.0	4501	21.0	200,000	15	Methane	0.5	3.1	75.8	506.1		
	83	400	6	0.0	4408	21.0	200,000	15	Methane			74.8	499.6		
	84	400	6	0.0	4394	21.0	200,000	15	Methane			74.6	498.7		
	84	400	6	0.0	4394	21.0	200,000	15	Methane			74.6	498.7		
	85	400	6	0.0	4380	21.0	194,108	15	Methane			72.3	483.1		
	86	400	6	0.0	4366	21.0	185,560	15	Methane			69.0	461.0		
	85	400	6	0.0	4380	21.0	173,996	15	Methane			64.8	433.0		
	86	400	6	0.0	4366	21.0	163,332	15	Methane			60.7	405.7		
	86	400	6	0.0	4366	20.0	153,176	15	Methane			57.0	380.5		
TOTAL for 04 Sep 2004														624	4,169
10/2/2004	72	400	6	0.0	4554	18.0	200,000	15	Methane	2.0	12.5	76.3	509.9		
	78	400	6	0.0	4476	18.0	200,000	15	Methane			75.5	504.2		
	79	400	6	0.0	4462	18.0	200,000	15	Methane			75.3	503.3		
	79	400	6	0.0	4462	18.0	200,000	15	Methane			75.3	503.3		
	80	400	6	0.0	4449	18.0	200,000	15	Methane			75.2	502.4		
	82	400	6	0.0	4421	18.0	200,000	15	Methane			74.9	500.5		
	82	400	6	0.0	4421	18.0	191,232	15	Methane			71.6	478.6		
	83	400	6	0.0	4408	18.0	179,104	15	Methane			67.0	447.4		
	83	400	6	0.0	4408	17.0	164,808	15	Methane			61.6	411.7		
	83	400	6	0.0	4408	17.0	152,780	15	Methane			57.1	381.6		
TOTAL for 02 Oct 2004														712	4,755
10/9/2004	68	400	6	0.0	4604	18.0	200,000	15	Methane	1.0	6.3	76.9	513.8		
	75	400	6	0.0	4515	18.0	200,000	15	Methane			75.9	507.0		
	77	400	6	0.0	4488	18.0	200,000	15	Methane			75.6	505.2		
	78	400	6	0.0	4476	18.0	200,000	15	Methane			75.5	504.2		
	80	400	6	0.0	4449	18.0	196,928	15	Methane			74.0	494.6		
	81	400	6	0.0	4435	18.0	186,056	15	Methane			69.8	466.5		
	81	400	6	0.0	4435	18.0	176,312	15	Methane			66.2	442.0		
	82	400	6	0.0	4421	18.0	165,580	15	Methane			62.0	414.4		
	82	400	6	0.0	4421	17.0	156,404	15	Methane			58.6	391.4		
TOTAL for 09 Oct 2004														636	4,245

Table B-7

AFVR Removal Volume Calculations - Well RR-20

(Page 4 of 7)

Date	Stack Temperature (F°)	Stack Gas Velocity (ft/sec)	Stack Diameter (in)	Assumed Stack Pressure at PID Port (in Hg)	Flow Rate (DSCFM)	Vacuum Applied (in Hg)	Measured PPM ("wet")	Elapsed Time Interval (min)	Calibration Gas	Direct Liquid Product Volume Removed (gal)	Liquid Mass Removed (lbs)	Product Volume Removed from Vapor (gal)	Vapor Mass Removed (lbs)	Total Product Volume Removed (gal)	Total Product Mass Removed (lbs)
	T _S	V	D	P	Q _{STD}	P _V	PPM _W	ET _M	C _G	VOL	Mass	VOL	Mass	VOL	Mass
10/26/2004	53	400	6	0.0	4784	18.0	200,000	15	Methane	2.0	12.5	79.2	528.8		
	59	400	6	0.0	4713	18.0	200,000	15	Methane			78.2	522.7		
	60	400	6	0.0	4701	18.0	200,000	15	Methane			78.1	521.7		
	62	400	6	0.0	4677	18.0	200,000	15	Methane			77.8	519.7		
	63	400	6	0.0	4665	18.0	197,924	15	Methane			76.8	513.3		
	63	400	6	0.0	4665	18.0	188,460	15	Methane			73.2	488.8		
	63	400	6	0.0	4665	18.0	178,948	15	Methane			69.5	464.1		
	64	400	6	0.0	4653	18.0	166,012	15	Methane			64.3	429.7		
	64	400	6	0.0	4653	17.0	149,396	15	Methane			57.9	386.7		
TOTAL for 26 Oct 2004														657	4,388
11/13/2004	55	400	6	0.0	4761	18.0	200,000	15	Methane	2.0	12.5	78.9	526.7		
	60	400	6	0.0	4701	18.0	198,952	15	Methane			77.7	518.9		
	61	400	6	0.0	4689	18.0	200,000	15	Methane			77.9	520.7		
	62	400	6	0.0	4677	18.0	200,000	15	Methane			77.8	519.7		
	62	400	6	0.0	4677	18.0	193,252	15	Methane			75.2	502.1		
	62	400	6	0.0	4677	18.0	185,148	15	Methane			72.0	481.1		
	61	400	6	0.0	4689	18.0	175,820	15	Methane			68.5	457.7		
	62	400	6	0.0	4677	18.0	164,584	15	Methane			64.0	427.7		
	61	400	6	0.0	4689	18.0	154,776	15	Methane			60.3	402.9		
TOTAL for 13 Nov 2004														654	4,370
12/12/2004	43	400	6	0.0	4901	23.0	200,000	15	Methane	2.3	14.1	80.7	539.3		
	48	400	6	0.0	4842	23.0	200,000	15	Methane			79.9	534.0		
	49	400	6	0.0	4831	23.0	200,000	15	Methane			79.8	532.9		
	49	400	6	0.0	4831	23.0	200,000	15	Methane			79.8	532.9		
	49	400	6	0.0	4831	23.0	200,000	15	Methane			79.8	532.9		
	50	400	6	0.0	4819	23.0	192,032	15	Methane			76.5	510.7		
	50	400	6	0.0	4819	23.0	178,484	15	Methane			71.1	474.7		
	51	400	6	0.0	4808	23.0	165,932	15	Methane			65.9	440.4		
	51	400	6	0.0	4808	23.0	151,780	15	Methane			60.3	402.9		
TOTAL for 12 Dec 2004														676	4,515

Table B-7

AFVR Removal Volume Calculations - Well RR-20

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Date	Stack Temperature (F°)	Stack Gas Velocity (ft/sec)	Stack Diameter (in)	Assumed Stack Pressure at PID Port (in Hg)	Flow Rate (DSCFM)	Vacuum Applied (in Hg)	Measured PPM ("wet")	Elapsed Time Interval (min)	Calibration Gas	Direct Liquid Product Volume Removed (gal)	Liquid Mass Removed (lbs)	Product Volume Removed from Vapor (gal)	Vapor Mass Removed (lbs)	Total Product Volume Removed (gal)	Total Product Mass Removed (lbs)
	T _S	V	D	P	Q _{STD}	P _V	PPM _W	ET _M	C _G	VOL	Mass	VOL	Mass	VOL	Mass
12/21/2004	36	400	6	0.0	4981	24.0	200,000	15	Methane	2.0	12.5	81.9	546.9		
	39	400	6	0.0	4947	24.0	200,000	15	Methane			81.4	543.6		
	40	400	6	0.0	4935	24.0	200,000	15	Methane			81.2	542.5		
	40	400	6	0.0	4935	24.0	194,196	15	Methane			78.9	526.8		
	41	400	6	0.0	4923	24.0	180,504	15	Methane			73.2	488.7		
	41	400	6	0.0	4923	24.0	164,588	15	Methane			66.7	445.6		
	41	400	6	0.0	4923	24.0	150,412	15	Methane			61.0	407.2		
TOTAL for 21 Dec 2004														526	3,514
12/29/2004	44	400	6	0.0	4889	24.0	200,000	15	Methane	2.0	12.5	80.6	538.2		
	49	400	6	0.0	4831	24.0	200,000	15	Methane			79.8	532.9		
	50	400	6	0.0	4819	24.0	200,000	15	Methane			79.6	531.9		
	50	400	6	0.0	4819	24.0	200,000	15	Methane			79.6	531.9		
	50	400	6	0.0	4819	24.0	190,860	15	Methane			76.0	507.6		
	51	400	6	0.0	4808	24.0	178,448	15	Methane			70.9	473.7		
	51	400	6	0.0	4808	24.0	165,188	15	Methane			65.6	438.5		
	52	400	6	0.0	4797	24.0	154,556	15	Methane			61.3	409.4		
TOTAL for 29 Dec 2004														595	3,977
1/7/2005	59	400	6	0.0	4713	24.0	200,000	15	Methane	2.5	15.6	78.2	522.7		
	65	400	6	0.0	4641	24.0	200,000	15	Methane			77.4	516.7		
	67	400	6	0.0	4616	24.0	200,000	15	Methane			77.1	514.7		
	68	400	6	0.0	4604	24.0	200,000	15	Methane			76.9	513.8		
	69	400	6	0.0	4591	24.0	193,244	15	Methane			74.2	495.5		
	71	400	6	0.0	4566	24.0	181,876	15	Methane			69.5	464.6		
	71	400	6	0.0	4566	24.0	165,300	15	Methane			63.2	422.2		
	72	400	6	0.0	4554	24.0	152,724	15	Methane			58.3	389.4		
TOTAL for 07 Jan 2005														577	3,855
1/25/2005	36	400	6	0.0	4981	24.0	200,000	15	Methane	1.5	9.4	81.9	546.9		
	40	400	6	0.0	4935	24.0	200,000	15	Methane			81.2	542.5		
	41	400	6	0.0	4923	24.0	189,260	15	Methane			76.7	512.4		
	42	400	6	0.0	4912	24.0	179,044	15	Methane			72.4	483.8		
	42	400	6	0.0	4912	24.0	164,596	15	Methane			66.6	444.7		
	43	400	6	0.0	4901	24.0	147,832	15	Methane			59.7	398.6		
TOTAL for 25 Jan 2005														440	2,938

Table B-7

AFVR Removal Volume Calculations - Well RR-20

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Date	Stack Temperature (F°)	Stack Gas Velocity (ft/sec)	Stack Diameter (in)	Assumed Stack Pressure at PID Port (in Hg)	Flow Rate (DSCFM)	Vacuum Applied (in Hg)	Measured PPM ("wet")	Elapsed Time Interval (min)	Calibration Gas	Direct Liquid Product Volume Removed (gal)	Liquid Mass Removed (lbs)	Product Volume Removed from Vapor (gal)	Vapor Mass Removed (lbs)	Total Product Volume Removed (gal)	Total Product Mass Removed (lbs)
	T _S	V	D	P	Q _{STD}	P _V	PPM _W	ET _M	C _G	VOL	Mass	VOL	Mass	VOL	Mass
1/15/2005	43	400	6	0.0	4901	24.0	200,000	15	Methane	1.3	7.8	80.7	539.3		
	47	400	6	0.0	4855	24.0	200,000	15	Methane			80.1	535.1		
	48	400	6	0.0	4842	24.0	200,000	15	Methane			79.9	534.0		
	48	400	6	0.0	4842	24.0	200,000	15	Methane			79.9	534.0		
	48	400	6	0.0	4842	23.0	193,860	15	Methane			77.5	517.6		
	49	400	6	0.0	4831	23.0	177,136	15	Methane			70.7	472.0		
	49	400	6	0.0	4831	23.0	162,572	15	Methane			64.9	433.2		
	49	400	6	0.0	4831	23.0	149,240	15	Methane			59.5	397.7		
TOTAL for 15 Jan 2005														594	3,971
2/5/2005	45	400	6	0.0	4878	24.0	200,000	15	Methane	1.0	6.3	80.4	537.2		
	50	400	6	0.0	4819	24.0	200,000	15	Methane			79.6	531.9		
	51	400	6	0.0	4808	24.0	200,000	15	Methane			79.5	530.9		
	51	400	6	0.0	4808	24.0	200,000	15	Methane			79.5	530.9		
	52	400	6	0.0	4797	24.0	193,068	15	Methane			76.6	511.5		
	52	400	6	0.0	4797	24.0	179,324	15	Methane			71.1	475.1		
	53	400	6	0.0	4784	24.0	162,860	15	Methane			64.5	430.6		
	53	400	6	0.0	4784	24.0	146,232	15	Methane			57.9	386.6		
TOTAL for 05 Feb 2005														590	3,941
2/12/2005	48	400	6	0.0	4842	24.0	200,000	15	Methane	0.8	4.7	79.9	534.0		
	54	400	6	0.0	4773	24.0	200,000	15	Methane			79.0	527.8		
	55	400	6	0.0	4761	24.0	200,000	15	Methane			78.9	526.7		
	56	400	6	0.0	4749	24.0	200,000	15	Methane			78.7	525.7		
	56	400	6	0.0	4749	24.0	192,480	15	Methane			75.7	506.0		
	57	400	6	0.0	4738	24.0	179,644	15	Methane			70.6	471.3		
	57	400	6	0.0	4738	24.0	159,956	15	Methane			62.8	419.6		
	57	400	6	0.0	4738	24.0	137,952	15	Methane			54.2	361.9		
TOTAL for 12 Feb 2005														581	3,878
2/18/2005	42	400	6	0.0	4912	24.0	200,000	15	Methane	0.5	3.1	80.9	540.4		
	46	400	6	0.0	4866	24.0	200,000	15	Methane			80.3	536.1		
	46	400	6	0.0	4866	24.0	200,000	15	Methane			80.3	536.1		
	46	400	6	0.0	4866	24.0	191,548	15	Methane			76.9	513.5		
	45	400	6	0.0	4878	23.0	181,452	15	Methane			73.0	487.4		
	45	400	6	0.0	4878	23.0	164,780	15	Methane			66.3	442.6		
	45	400	6	0.0	4878	23.0	146,128	15	Methane			58.8	392.5		
	45	400	6	0.0	4878	23.0	146,128	15	Methane			58.8	392.5		
TOTAL for 18 Feb 2005														517	3,452

Table B-7

AFVR Removal Volume Calculations - Well RR-20

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Date	Stack Temperature (F°)	Stack Gas Velocity (ft/sec)	Stack Diameter (in)	Assumed Stack Pressure at PID Port (in Hg)	Flow Rate (DSCFM)	Vacuum Applied (in Hg)	Measured PPM ("wet")	Elapsed Time Interval (min)	Calibration Gas	Direct Liquid Product Volume Removed (gal)	Liquid Mass Removed (lbs)	Product Volume Removed from Vapor (gal)	Vapor Mass Removed (lbs)	Total Product Volume Removed (gal)	Total Product Mass Removed (lbs)
	T _S	V	D	P	Q _{STD}	P _V	PPM _W	ET _M	C _G	VOL	Mass	VOL	Mass	VOL	Mass
2/25/2005	47	400	6	0.0	4855	23.0	200,000	15	Methane	0.8	4.7	80.1	535.1		
	52	400	6	0.0	4797	23.0	200,000	15	Methane			79.3	529.8		
	52	400	6	0.0	4797	23.0	194,508	15	Methane			77.1	515.3		
	53	400	6	0.0	4784	23.0	184,352	15	Methane			73.0	487.4		
	52	400	6	0.0	4797	22.0	170,224	15	Methane			67.5	450.9		
	53	400	6	0.0	4784	22.0	152,796	15	Methane			60.5	404.0		
	52	400	6	0.0	4797	22.0	134,080	15	Methane			53.2	355.2		
TOTAL for 25 Feb 2005														491	3,282
3/9/2005	43	400	6	0.0	4901	23.0	200,000	15	Methane	0.5	3.1	80.7	539.3		
	48	400	6	0.0	4842	23.0	200,000	15	Methane			79.9	534.0		
	49	400	6	0.0	4831	23.0	200,000	15	Methane			79.8	532.9		
	49	400	6	0.0	4831	23.0	190,304	15	Methane			75.9	507.1		
	50	400	6	0.0	4819	22.0	177,072	15	Methane			70.5	470.9		
	49	400	6	0.0	4831	22.0	161,980	15	Methane			64.6	431.6		
	49	400	6	0.0	4831	22.0	150,948	15	Methane			60.2	402.2		
TOTAL for 09 Mar 2005														512	3,421
3/16/2005	43	400	6	0.0	4901	23.0	200,000	15	Methane	1.0	6.3	80.7	539.3		
	48	400	6	0.0	4842	23.0	200,000	15	Methane			79.9	534.0		
	49	400	6	0.0	4831	23.0	200,000	15	Methane			79.8	532.9		
	49	400	6	0.0	4831	23.0	192,576	15	Methane			76.8	513.2		
	50	400	6	0.0	4819	23.0	180,132	15	Methane			71.7	479.1		
	50	400	6	0.0	4819	23.0	164,220	15	Methane			65.4	436.7		
	49	400	6	0.0	4831	23.0	154,100	15	Methane			61.5	410.6		
TOTAL for 16 Mar 2005														517	3,452
3/23/2005	68	400	6	0.0	4604	23.0	200,000	15	Methane	1.0	6.3	76.9	513.8		
	73	400	6	0.0	4540	23.0	200,000	15	Methane			76.2	509.0		
	74	400	6	0.0	4527	23.0	200,000	15	Methane			76.0	508.0		
	74	400	6	0.0	4527	23.0	190,392	15	Methane			72.4	483.6		
	74	400	6	0.0	4527	23.0	174,948	15	Methane			66.5	444.4		
	75	400	6	0.0	4515	23.0	154,540	15	Methane			58.7	391.8		
	74	400	6	0.0	4527	23.0	132,032	15	Methane			50.2	335.4		
TOTAL for 23 Mar 2005														478	3,192

Table B-8
B_{WSW} Values

Average Stack Temperature (F°)	Pounds Water / Pounds Dry Air	Average Stack Temperature (F°)	Pounds Water / Pounds Dry Air
105	0.0507	69	0.0153
104	0.0482	68	0.0147
103	0.0476	67	0.0142
102	0.0461	66	0.0137
101	0.0446	65	0.0132
100	0.0433	64	0.0128
99	0.0419	63	0.0123
98	0.0405	62	0.0119
97	0.0382	61	0.0115
96	0.0379	60	0.0111
95	0.0367	59	0.0107
94	0.0355	58	0.0103
93	0.0344	57	0.0099
92	0.0333	56	0.0096
91	0.0322	55	0.0092
90	0.0312	54	0.0088
89	0.0302	53	0.0086
88	0.0292	52	0.0082
87	0.0282	51	0.0079
86	0.0273	50	0.0077
85	0.0264	49	0.0074
84	0.0255	48	0.0072
83	0.0247	47	0.0068
82	0.0239	46	0.0066
81	0.0231	45	0.0063
80	0.0223	44	0.0061
79	0.0216	43	0.0058
78	0.0208	42	0.0056
77	0.0202	41	0.0055
76	0.0195	40	0.0052
75	0.0188	39	0.005
74	0.0182	38	0.0048
73	0.0176	37	0.0046
72	0.0169	36	0.0044
71	0.0164	35	0.0043
70	0.0158	34	0.0042

F° : degrees Farenheit

Data from Heatcraft Psychrometric Chart, High
Temperature, Sea Level; saturation assumed

AGGRESSIVE FLUID VAPOR RECOVERY
FIELD DATA SHEETS

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB Camp Lejeune, NC

Location: MCAS New River, Bldg AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-12	MW-06			
AFVR WELL (YES/NO)	yes	no			
WELL DEPTH (FT BLS)	14.96	50.21			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	4.75	0			
DEPTH TO WATER (FT)	7.56	6.77			
PRODUCT THICKNESS (FT)	2.81	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 844098

Initials: J.M.

Date: 4-7-04

Start Time: 1450

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	yes

Fluids Recovered	
Water (gals)	50
Product (gals)	2 1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1450	0:00	7.56	4.75	6.77	0						
1510	0:15	-	-	6.77	0						
1525	0:30	-	-	6.75	0						
1540	0:45	-	-	6.75	0						
1555	1:00	-	-	6.75	0						
1610	1:15	5.33	0	6.75	0						
	1:30										
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F °C)	Vac Truck ("Hg RPM)
0:00	7200, 000	400	76	23 600
0:15	7200, 000	400	76	
0:30	191, 374	400	77	
0:45	179, 688	400	77	
1:00	165, 152	400	76	23 600
1:15	156, 884	400	77	
1:30				
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB Camp Lejeune, NC

Location: MCAS New River, Bldg AS 3905

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RW-1	ORG-6			
AFVR WELL (YES/NO)	yes	no			
WELL DEPTH (FT BLS)	21.48	17.39			
DIAMETER (INCH)	6"	2"			
DEPTH TO PRODUCT (FT)	4.84	0			
DEPTH TO WATER (FT)	5.42	5.29			
PRODUCT THICKNESS (FT)	.58	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 844098

Initials: J.M.

Date: 4-7-04

Start Time: 1630

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	yes

Fluids Recovered	
Water (gals)	40
Product (gals)	1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1630	0:00	5.42	4.84	5.29	0						
1645	0:15	-	-	5.31	0						
1700	0:30	-	-	5.31	0						
1715	0:45	-	-	5.31	0						
1730	1:00	5.33	0	5.31	0						
	1:15										
	1:30										
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F) (°C)	Vac Truck ("Hg) (RPM)
0:00	2200,000	400	77	23 600
0:15	2200,000	400	75	
0:30	2186,224	400	75	
0:45	2158,120	400	74	
1:00	2142,884	400	74	22 600
1:15				
1:30				
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB Camp Lejeune, NC

Location: _____

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-12	MW-06			
AFVR WELL (YES/NO)	yes	no			
WELL DEPTH (FT BLS)	14.96	50.21			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	4.59	0			
DEPTH TO WATER (FT)	6.55	6.47			
PRODUCT THICKNESS (FT)	1.96	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1400	0:00	6.55	4.59	6.47	0						
1415	0:15	-	-	6.47	0						
1430	0:30	-	-	6.46	0						
1445	0:45	-	-	6.45	0						
1500	1:00	-	-	6.45	0						
1515	1:15	-	-	6.45	0						
1530	1:30	5.47	0	6.44	0						
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

Project #: 844098

Initials: J.M.

Date: 4-23-04

Start Time: 1400

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	yes

Fluids Recovered	
Water (gals)	50
Product (gals)	1 1/2

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F °C)	Vac Truck ("Hg RPM)
0:00	1200,000	400	80	23 600
0:15	1200,000	400	82	
0:30	1200,000	400	82	
0:45	1200,000	400	84	
1:00	178,912	400	84	23 600
1:15	161,552	400	84	
1:30	154,776	400	85	
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB Camp Lejeune, NC

Location: MCAS New River Bldg AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-12	MW-06			
AFVR WELL (YES/NO)	yes	no			
WELL DEPTH (FT BLS)	14.96	50.21			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	5.11	0			
DEPTH TO WATER (FT)	9.66	7.28			
PRODUCT THICKNESS (FT)	4.55	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 844098

Initials: J.R.

Date: 5-27-04

Start Time: 1145

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	yes

Fluids Recovered	
Water (gals)	100
Product (gals)	2 3/4

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1145	0:00	9.66	5.11	7.28	0						
1200	0:15	-	-	7.28	0						
1215	0:30	-	-	7.28	0						
1230	0:45	-	-	7.27	0						
1245	1:00	-	-	7.27	0						
1300	1:15	-	-	7.27	0						
1315	1:30	-	-	7.27	0						
1330	1:45	-	-	7.26	0						
1345	2:00	5.62	0	7.26	0						
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Temp (°F)	Vac Truck ("Hg)
0:00	>200,000	400	86	23
0:15	>200,000	400	88	600
0:30	>200,000	400	90	
0:45	>200,000	400	96	
1:00	>200,000	400	98	23
1:15	190,466	400	99	600
1:30	178,764	400	101	
1:45	167,226	400	101	
2:00	157,884	400	101	23
2:30				600
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB Camp Lejeune, NC

Location: MCAS New River Bldg AS-3905

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RW-1	OBG-6			
AFVR WELL (YES/NO)	Yes	No			
WELL DEPTH (FT BLS)	21.48	17.39			
DIAMETER (INCH)	6"	2"			
DEPTH TO PRODUCT (FT)	5.04	0			
DEPTH TO WATER (FT)	5.27	6.04			
PRODUCT THICKNESS (FT)	.23	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 844098

Initials: J.R.

Date: 5-27-04

Start Time: 1500

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	Yes

Fluids Recovered	
Water (gals)	50
Product (gals)	1/4

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1500	0:00	5.27	5.04	6.04	0						
1515	0:15	-	-	6.04	0						
1530	0:30	-	-	6.04	0						
1545	0:45	-	-	6.04	0						
1600	1:00	-	-	6.05	0						
1615	1:15	-	-	6.05	0						
1630	1:30	5.07	0	6.05	0						
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F °C)	Vac Truck ("Hg) (RPM)
0:00	2200,000	400	87	23 600
0:15	2200,000	400	89	
0:30	2200,000	400	92	
0:45	196,812	400	95	
1:00	176,226	400	95	23 600
1:15	166,440	400	98	
1:30	159,680	400	101	
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB Camp Lejeune, NC

Location: MCAS New River Bldg AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-18	RR-23			
AFVR WELL (YES/NO)	yes	no			
WELL DEPTH (FT BLS)	14.50	13.65			
DIAMETER (INCH)	4"	2"			
DEPTH TO PRODUCT (FT)	7.94	0			
DEPTH TO WATER (FT)	11.39	6.90			
PRODUCT THICKNESS (FT)	3.45	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
0730	0:00	11.39	7.94	6.90	0						
0745	0:15	-	-	6.90	0						
0800	0:30	-	-	6.90	0						
0815	0:45	-	-	6.90	0						
0830	1:00	-	-	6.90	0						
0845	1:15	-	-	6.91	0						
0900	1:30	-	-	6.91	0						
0915	1:45	-	-	6.91	0						
0930	2:00	-	-	6.90	0						
1000	2:30	9.44	0	6.90	0						
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

Project #: 844098

Initials: QR

Date: 5-28-04

Start Time: 0730

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	yes

Fluids Recovered	
Water (gals)	125
Product (gals)	2

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F °C)	Vac Truck ("Hg RPM)
0:00	> 200,000	400	77	23 600
0:15	> 200,000	400	79	
0:30	> 200,000	400	80	
0:45	> 200,000	400	80	
1:00	> 200,000	400	82	23 600
1:15	> 200,000	400	84	
1:30	195,624	400	84	
1:45	181,504	400	85	
2:00	166,586	400	85	22 600
2:30	154,610	400	85	
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB Camp Lejeune, NC

Location: MCAS New River Bldg AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-20	RR-21			
AFVR WELL (YES/NO)	yes	no			
WELL DEPTH (FT BLS)	14.76	13.81			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	7.85	0			
DEPTH TO WATER (FT)	8.17	5.04			
PRODUCT THICKNESS (FT)	.32	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 844098

Initials: J.M.

Date: 5-28-04

Start Time: 1100

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	yes

Fluids Recovered	
Water (gals)	50
Product (gals)	1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1100	0:00	8.17	7.85	5.04	0						
1115	0:15	-	-	5.04	0						
1130	0:30	-	-	5.04	0						
1145	0:45	-	-	5.04	0						
1200	1:00	-	-	5.05	0						
1215	1:15	-	-	5.05	0						
1230	1:30	-	-	5.05	0						
1245	1:45	8.32	0	5.05	0						
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F °C)	Vac Truck ("Hg RPM)
0:00	7200,000	400	94	23 600
0:15	7200,000	400	97	
0:30	7200,000	400	99	
0:45	192,440	400	99	
1:00	186,726	400	100	23 600
1:15	173,544	400	101	
1:30	166,644	400	100	
1:45	156,740	400	102	
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Release (AFVR) Data Sheet

Facility: MCB Camp Lejeune, NC

Location: MCAS New River Bldg AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-1G	RR-5G	RR-4G		
AFVR WELL (YES/NO)	yes	yes	no		
WELL DEPTH (FT BLS)	19.75	22.86	20.45		
DIAMETER (INCH)	6"	6"	6"		
DEPTH TO PRODUCT (FT)	5.64	7.20	0		
DEPTH TO WATER (FT)	8.90	7.66	6.47		
PRODUCT THICKNESS (FT)	3.26	.46	0		
SCREEN INTERV. (FT BLS)	N/A	N/A	N/A		

Project #: 844098

Initials: J.M.

Date: 5-28-04

Start Time: 1400

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	yes

Fluids Recovered	
Water (gals)	125
Product (gals)	2 1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1400	0:00	8.90	5.64	7.66	7.20	6.47	0				
1415	0:15	-	-	-	-	6.47	0				
1430	0:30	-	-	-	-	6.47	0				
1445	0:45	-	-	-	-	6.47	0				
1500	1:00	-	-	-	-	6.48	0				
1515	1:15	-	-	-	-	6.48	0				
1530	1:30	-	-	-	-	6.49	0				
1545	1:45	-	-	-	-	6.49	0				
1600	2:00	6.49	0	7.31	0	6.49	0				
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F °C)	Vac Truck ("Hg) (RPM)
0:00	2200,000	400	92	23 600
0:15	2200,000	400	95	
0:30	2200,000	400	96	
0:45	2200,000	400	98	
1:00	2200,000	400	99	23 600
1:15	189,720	400	101	
1:30	176,836	400	101	
1:45	166,210	400	103	
2:00	162,680	400	103	23 600
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB Camp Lejeune, NC

Location: MCAS New River Bldg AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-12	MW-6			
AFVR WELL (YES/NO)	yes	no			
WELL DEPTH (FT BLS)	14.96	50.21			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	5.19	0			
DEPTH TO WATER (FT)	8.83	7.31			
PRODUCT THICKNESS (FT)	3.64	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 844098

Initials: J.R.

Date: 6-3-04

Start Time: 0830

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	yes

Fluids Recovered	
Water (gals)	100
Product (gals)	2 1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
0830	0:00	8.83	5.19	7.31	0						
0845	0:15	-	-	7.31	0						
0900	0:30	-	-	7.32	0						
0915	0:45	-	-	7.31	0						
0930	1:00	-	-	7.30	0						
0945	1:15	-	-	7.30	0						
1000	1:30	-	-	7.31	0						
1015	1:45	-	-	7.31	0						
1030	2:00	-	-	7.30	0						
1100	2:30	5.81	0	7.30	0						
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Temp (°F)	Vac Truck ("Hg)
0:00	200,000	400	71	22
0:15	200,000	400	75	
0:30	200,000	400	75	
0:45	200,000	400	76	
1:00	200,000	400	77	23
1:15	198,752	400	76	
1:30	187,664	400	78	
1:45	174,816	400	78	
2:00	165,688	400	78	23
2:30	158,572	400	78	
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB Camp Lejeune, NC

Location: MCAS New River Bldg AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-16	RR-7			
AFVR WELL (YES/NO)	yes	no			
WELL DEPTH (FT BLS)	14.07	14.72			
DIAMETER (INCH)	4"	2"			
DEPTH TO PRODUCT (FT)	8.12	0			
DEPTH TO WATER (FT)	8.73	6.60			
PRODUCT THICKNESS (FT)	.61	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 844098

Initials: J.R

Date: 6-3-04

Start Time: 1140

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	y

Fluids Recovered	
Water (gals)	75
Product (gals)	1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1140	0:00	8.73	8.12	6.60	0						
1155	0:15	-	-	6.60	0						
1210	0:30	-	-	6.60	0						
1225	0:45	-	-	6.60	0						
1240	1:00	-	-	6.60	0						
1255	1:15	9.12	0	6.60	0						
	1:30										
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F °C)	Vac Truck ("Hg RPM)
0:00	2200, 2000	400	78	23 600
0:15	2200, 800	400	79	
0:30	190, 344	400	79	
0:45	172, 312	400	81	
1:00	166, 056	400	82	23 600
1:15	156, 168	400	84	
1:30				
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB Camp Lejeune, NC

Location: MCAS New River Bldg AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-18	RR-23			
AFVR WELL (YES/NO)	yes	no			
WELL DEPTH (FT BLS)	14.50	13.65			
DIAMETER (INCH)	4"	2"			
DEPTH TO PRODUCT (FT)	8.35	0			
DEPTH TO WATER (FT)	10.57	7.21			
PRODUCT THICKNESS (FT)	2.22	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 844098

Initials: J.R.

Date: 6-3-04

Start Time: 1345

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	yes

Fluids Recovered	
Water (gals)	100
Product (gals)	1 1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1345	0:00	10.57	8.35	7.21	0						
1400	0:15	-	-	7.21	0						
1415	0:30	-	-	7.21	0						
1430	0:45	-	-	7.21	0						
1445	1:00	-	-	7.22	0						
1500	1:15	-	-	7.21	0						
1515	1:30	-	-	7.21	0						
1530	1:45	-	-	7.21	0						
1545	2:00	9.31	0	7.21	0						
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F °C)	Vac Truck ("Hg RPM)
0:00	> 200,000	400	84	23 600
0:15	> 200,000	400	85	
0:30	> 200,000	400	87	
0:45	> 200,000	400	89	
1:00	192,448	400	90	23 600
1:15	185,440	400	93	
1:30	174,786	400	94	
1:45	165,462	400	94	
2:00	154,112	400	95	23 600
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB Camp Lejeune, NC

Location: MCAS New River Bldg AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-1G	RR-5G	RR-4G		
AFVR WELL (YES/NO)	YES	YES	NO		
WELL DEPTH (FT BLS)	19.25	22.86	20.45		
DIAMETER (INCH)	6"	6"	6"		
DEPTH TO PRODUCT (FT)	6.18	7.27	0		
DEPTH TO WATER (FT)	7.50	7.69	6.59		
PRODUCT THICKNESS (FT)	1.32	.42	0		
SCREEN INTERV. (FT BLS)	N/A	N/A	N/A		

Project #: 844098

Initials: J.R.

Date: 6-4-04

Start Time: 0845

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	125
Product (gals)	2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
0845	0:00	7.50	6.18	7.69	7.27	6.59	0				
0900	0:15	-	-	-	-	6.59	0				
0915	0:30	-	-	-	-	6.59	0				
0930	0:45	-	-	-	-	6.59	0				
0945	1:00	-	-	-	-	6.59	0				
1000	1:15	-	-	-	-	6.60	0				
1015	1:30	-	-	-	-	6.59	0				
1030	1:45	6.62	0	7.67	0	6.59	0				
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F °C)	Vac Truck ("Hg RPM)
0:00	7 200,000	400	72	22 600
0:15	7 200,000	400	75	
0:30	7 200,000	400	76	
0:45	7 200,000	400	78	
1:00	186,320	400	79	23 600
1:15	179,548	400	80	
1:30	164,796	400	82	
1:45	158,364	400	82	
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB Camp Lejeune, NC

Location: MCAS New River Bldg AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-12	MW-06			
AFVR WELL (YES/NO)	yes	no			
WELL DEPTH (FT BLS)	14.96	50.21			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	5.05	0			
DEPTH TO WATER (FT)	8.34	7.22			
PRODUCT THICKNESS (FT)	3.29	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 844098

Initials: J.M.

Date: 6-11-04

Start Time: 1220

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	yes

Fluids Recovered	
Water (gals)	150
Product (gals)	2 1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1220	0:00	8.34	5.05	7.22	0						
1235	0:15	-	-	7.22	0						
1250	0:30	-	-	7.22	0						
1305	0:45	-	-	7.23	0						
1320	1:00	-	-	7.22	0						
1335	1:15	-	-	7.21	0						
1350	1:30	-	-	7.21	0						
1405	1:45	5.52	0	7.21	0						
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F °C)	Vac Truck ("Hg RPM)
0:00	2200,000	400	82	23 600
0:15	2200,000	400	87	
0:30	2200,000	400	91	
0:45	195,544	400	92	
1:00	183,020	400	94	23 600
1:15	172,912	400	97	
1:30	165,428	400	98	
1:45	158,608	400	98	
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB Camp Lejeune, NC

Location: MCAS New River Bldg AS-3905

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RW-1	OBG-6			
AFVR WELL (YES/NO)	yes	no			
WELL DEPTH (FT BLS)	21.48	17.39			
DIAMETER (INCH)	6"	2"			
DEPTH TO PRODUCT (FT)	5.08	0			
DEPTH TO WATER (FT)	5.51	6.25			
PRODUCT THICKNESS (FT)	.43	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 844098

Initials: J.M.

Date: 6-11-04

Start Time: 1440

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	yes

Fluids Recovered	
Water (gals)	75
Product (gals)	1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1440	0:00	5.51	5.08	6.25	0						
1455	0:15	-	-	6.25	0						
1510	0:30	-	-	6.26	0						
1525	0:45	-	-	6.25	0						
1540	1:00	-	-	6.25	0						
1555	1:15	5.37	0	6.25	0						
	1:30										
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F °C)	Vac Truck ("Hg RPM)
0:00	200,000	400	90	23 600
0:15	200,000	406	95	
0:30	182,146	406	98	
0:45	170,782	400	101	
1:00	156,440	400	100	23 600
1:15	143,260	400	101	
1:30				
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB Camp Lejeune, NC

Location: MCAS New River Bldg AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-18	RR-23			
AFVR WELL (YES/NO)	yes	no			
WELL DEPTH (FT BLS)	14.50	13.65			
DIAMETER (INCH)	4"	2"			
DEPTH TO PRODUCT (FT)	8.46	0			
DEPTH TO WATER (FT)	10.15	7.25			
PRODUCT THICKNESS (FT)	1.69	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 844098

Initials: JM

Date: 6-11-04

Start Time: 1620

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	yes

Fluids Recovered	
Water (gals)	100
Product (gals)	1

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1620	0:00	10.15	8.46	7.25	0						
1635	0:15	-	-	7.25	0						
1650	0:30	-	-	7.26	0						
1705	0:45	-	-	7.25	0						
1720	1:00	-	-	7.25	0						
1735	1:15	-	-	7.26	0						
1750	1:30	-	-	7.26	0						
1805	1:45	9.61	0	7.26	0						
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F °C)	Vac Truck ("Hg RPM)
0:00	2200,000	400	92	23 600
0:15	2200,000	400	98	
0:30	2200,000	400	101	
0:45	2200,000	400	101	
1:00	189,420	400	102	23 600
1:15	172,148	400	102	
1:30	166,704	400	101	
1:45	153,550	400	102	
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB Camp Lejeune, NC

Location: MCAS New River Bldg AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	KR-16	RR-7			
AFVR WELL (YES/NO)	yes	no			
WELL DEPTH (FT BLS)	14.07	14.72			
DIAMETER (INCH)	4"	2"			
DEPTH TO PRODUCT (FT)	8.24	0			
DEPTH TO WATER (FT)	8.93	6.68			
PRODUCT THICKNESS (FT)	.69	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
0800	0:00	8.93	8.24	6.68	0						
0815	0:15	-	-	6.68	0						
0830	0:30	-	-	6.68	0						
0845	0:45	-	-	6.68	0						
0900	1:00	-	-	6.68	0						
0915	1:15	-	-	6.68	0						
0930	1:30	9.04	0	6.68	0						
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

Project #: 844098

Initials: J.M.

Date: 6-12-04

Start Time: 0800

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	yes

Fluids Recovered	
Water (gals)	75
Product (gals)	1/2

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F °C)	Vac Truck ("Hg RPM)
0:00	220,000	400	75	23 600
0:15	220,000	400	77	
0:30	188,468	400	77	
0:45	178,264	400	79	
1:00	168,636	400	81	23 600
1:15	163,540	400	83	
1:30	154,320	400	84	
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB Camp Lejeune, NC

Location: MCAS New River Bldg AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-1G	RR-5G	RR-4G		
AFVR WELL (YES/NO)	yes	yes	no		
WELL DEPTH (FT BLS)	19.75	22.86	20.45		
DIAMETER (INCH)	6"	6"	6"		
DEPTH TO PRODUCT (FT)	6.27	7.48	0		
DEPTH TO WATER (FT)	7.95	7.94	6.78		
PRODUCT THICKNESS (FT)	1.68	.46	0		
SCREEN INTERV. (FT BLS)	N/A	N/A	N/A		

Project #: 844098

Initials: J.M.

Date: 6-12-04

Start Time: 1030

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	yes

Fluids Recovered	
Water (gals)	100
Product (gals)	2 1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1030	0:00	7.95	6.27	7.94	7.48	6.78	0				
1045	0:15	-	-	-	-	6.79	0				
1100	0:30	-	-	-	-	6.78	0				
1115	0:45	-	-	-	-	6.78	0				
1130	1:00	-	-	-	-	6.78	0				
1145	1:15	-	-	-	-	6.79	0				
1200	1:30	-	-	-	-	6.79	0				
1215	1:45	-	-	-	-	6.79	0				
1230	2:00	6.78	0	7.62	0	6.79	0				
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Temp (°F)	Vac Truck ("Hg)	(RPM)
0:00	2200,000	400	82	23	600
0:15	2200,000	400	85		
0:30	2200,000	400	88		
0:45	2200,000	400	91		
1:00	2200,000	400	92	23	600
1:15	190,276	400	94		
1:30	177,612	400	96		
1:45	166,216	400	96		
2:00	153,440	400	98	23	600
2:30					
3:00					
3:30					
4:00					
4:30					
5:00					
5:30					
6:00					

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LEJEUNE, NC

Location: MCAS NEW RIVER BLDG AS-498

Project #: 844098

Initials: TL

Date: 7/14/04

Start Time: 1125

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-14	RR-16			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	19.75	20.45			
DIAMETER (INCH)	6"	6"			
DEPTH TO PRODUCT (FT)	6.43	0			
DEPTH TO WATER (FT)	7.26	6.71			
PRODUCT THICKNESS (FT)	0.83	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	150
Product (gals)	1/4

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1125	0:00	7.26	6.43	6.71	0						
1140	0:15	-	-	6.71	0						
1155	0:30	-	-	6.71	0						
1210	0:45	-	-	6.71	0						
1225	1:00	-	-	6.71	0						
1240	1:15	-	-	6.71	0						
1255	1:30	-	-	6.71	0						
1310	1:45	-	-	6.71	0						
1325	2:00	-	-	6.71	0						
1355	2:30	7.03	0	6.71	0						
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Temp (°F)	Vac Truck ("Hg)
0:00	>200,000	300	88	22
0:15	>200,000	400	95	
0:30	>200,000	400	97	
0:45	>200,000	400	98	
1:00	>200,000	400	98	23
1:15	196,828	400	99	
1:30	187,972	400	99	
1:45	173,988	400	100	
2:00	161,264	400	101	22
2:30	148,472	400	100	
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCS CAMP LEBEUNE, NC

Location: MCAS NEW RIVER BLDG AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-20	RR-21			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.76	13.81			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	8.03	0			
DEPTH TO WATER (FT)	13.72	4.58			
PRODUCT THICKNESS (FT)	5.69	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
0800	0:00	13.72	8.03	4.58	0						
0815	0:15	-	-	4.58	0						
0830	0:30	-	-	4.58	0						
0845	0:45	-	-	4.58	0						
0900	1:00	-	-	4.59	0						
0915	1:15	-	-	4.59	0						
0930	1:30	-	-	4.59	0						
0945	1:45	-	-	4.59	0						
1000	2:00	-	-	4.59	0						
1030	2:30	-	-	4.60	0						
1100	3:00	9.28	0	4.60	0						
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

Project #: 844098

Initials: RL

Date: 7/15/04

Start Time: 0800

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	140
Product (gals)	3 1/4

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F °C)	Vac Truck ("Hg RPM)
0:00	>200,000	400 -	78 -	23 600
0:15	>200,000	400 -	86 -	
0:30	>200,000	400 -	87 -	
0:45	>200,000	400 -	87 -	
1:00	>200,000	400 -	88 -	23 600
1:15	>200,000	400 -	89 -	
1:30	198,488	400 -	89 -	
1:45	187,472	400 -	89 -	
2:00	176,452	400 -	90 -	23 600
2:30	166,076	400 -	90 -	
3:00	152,980	400 -	90 -	
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCS CAMP LEEVINE, NC

Location: MCA3 NEW RIVER BLDG, AS-498

Project #: 844098

Initials: XL

Date: 7/15/04

Start Time: 1135

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-18	RR-23			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.50	13.65			
DIAMETER (INCH)	4"	2"			
DEPTH TO PRODUCT (FT)	8.64	0			
DEPTH TO WATER (FT)	10.08	7.29			
PRODUCT THICKNESS (FT)	1.42	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	130
Product (gals)	2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1135	0:00	10.08	8.64	7.29	0						
1150	0:15	-	-	7.29	0						
1205	0:30	-	-	7.29	0						
1220	0:45	-	-	7.29	0						
1235	1:00	-	-	7.29	0						
1250	1:15	-	-	7.29	0						
1305	1:30	-	-	7.30	0						
1320	1:45	-	-	7.30	0						
1335	2:00	9.51	0	7.30	0						
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Temp (°F)	Vac Truck ("Hg)
0:00	>200,000	400	87	23
0:15	>200,000	400	94	
0:30	>200,000	400	95	
0:45	197,852	400	95	
1:00	189,256	400	96	22
1:15	178,212	400	96	
1:30	169,400 (6)	400	95	
1:45	158,020	400	96	
2:00	143,936	400	97	23
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

Aggressive Fluid Vapor Risk (AFVR) Data Sheet

Facility: MCB CAMP LESTUNE, NC

Location: MCAS NEW RIVER BLDG AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	ZR-12	MW-06			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.96	50.21			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	4.91	0			
DEPTH TO WATER (FT)	8.02	7.04			
PRODUCT THICKNESS (FT)	3.11	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1415	0:00	8.02	4.91	7.04	0						
1430	0:15	-	-	7.04	0						
1445	0:30	-	-	7.03	0						
1500	0:45	-	-	7.02	0						
1515	1:00	-	-	7.02	0						
1530	1:15	-	-	7.01	0						
1545	1:30	-	-	7.00	0						
1600	1:45	-	-	7.00	0						
1615	2:00	5.49	0	6.99	0						
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

Project #: 844098

Initials: RL

Date: 7/15/04

Start Time: 1415

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	100
Product (gals)	1

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Velocity (m/sec)	Temp (°F)	Temp (°C)	Vac Truck ("Hg)	Vac Truck (RPM)
0:00	>200,000	400	-	90	-	22	600
0:15	>200,000	400	-	97	-		
0:30	>200,000	400	-	98	-		
0:45	>200,000	400	-	98	-		
1:00	>200,000	400	-	98	-	22	600
1:15	191,248	400	-	99	-		
1:30	175,184	400	-	98	-		
1:45	162,352	400	-	99	-		
2:00	149,212	400	-	99	-	22	600
2:30							
3:00							
3:30							
4:00							
4:30							
5:00							
5:30							
6:00							

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCTB CAMP LEBEUNE, NC

Location: MCHS NEW RIVER BLDG AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-12	RIW-06			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.96	50.21			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	5.06	0			
DEPTH TO WATER (FT)	8.55	6.99			
PRODUCT THICKNESS (FT)	3.49	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 844272

Initials: RL

Date: 7/30/04

Start Time: 0715

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	100
Product (gals)	2 1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
0715	0:00	8.55	5.06	6.99	0						
0730	0:15	-	-	6.99	0						
0745	0:30	-	-	6.98	0						
0800	0:45	-	-	6.98	0						
0815	1:00	-	-	6.97	0						
0830	1:15	-	-	6.96	0						
0845	1:30	-	-	6.96	0						
0900	1:45	-	-	6.95	0						
0915	2:00	5.70	0	6.95	0						
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Velocity (m/sec)	Temp (°F)	Temp (°C)	Vac Truck ("Hg)	Vac Truck (RPM)
0:00	>200,000	400	-	78	-	23	600
0:15	>200,000	400	-	85	-		
0:30	>200,000	400	-	86	-		
0:45	>200,000	400	-	87	-		
1:00	>200,000	400	-	87	-	23	600
1:15	195,332	400	-	88	-		
1:30	178,688	400	-	88	-		
1:45	161,460	400	-	89	-		
2:00	148,456	400	-	89	-	23	600
2:30							
3:00							
3:30							
4:00							
4:30							
5:00							
5:30							
6:00							

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: NICB CAMP LETEUNE, NC

Location: MCHS NEW RIVER BLDG AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RL 20	RL 21			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.76	13.81			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	7.37	0			
DEPTH TO WATER (FT)	14.01	3.46			
PRODUCT THICKNESS (FT)	6.64	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 044272

Initials: RL

Date: 7/30/04

Start Time: 1000

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	110
Product (gals)	2 1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1000	0:00	14.01	7.37	3.46	0						
1015	0:15	-	-	3.46	0						
1030	0:30	-	-	3.46	0						
1045	0:45	-	-	3.46	0						
1100	1:00	-	-	3.46	0						
1115	1:15	-	-	3.47	0						
1130	1:30	-	-	3.47	0						
1145	1:45	-	-	3.47	0						
1200	2:00	7.95	0	3.47	0						
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F °C)	Vac Truck ("Hg RPM)
0:00	>200,000	700 -	82 -	23 600
0:15	>200,000	400 -	90 -	
0:30	>200,000	400 -	91 -	
0:45	198,232	400 -	93 -	
1:00	192,652	400 -	94 -	22 600
1:15	186,816	400 -	94 -	
1:30	174,488	400 -	95 -	
1:45	164,340	400 -	95 -	
2:00	158,400	400 -	95 -	22 600
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCTB CAMP LEBEUNE, NC

Location: MCAS NEW RIVER Bldg AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	22-16	22-23			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.50	13.65			
DIAMETER (INCH)	4"	2"			
DEPTH TO PRODUCT (FT)	8.17	0			
DEPTH TO WATER (FT)	10.31	6.86			
PRODUCT THICKNESS (FT)	2.14	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 844272

Initials: ZL

Date: 7/30/04

Start Time: 1245

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	140
Product (gals)	2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1245	0:00	10.31	8.17	6.86	0						
1300	0:15	-	-	6.86	0						
1315	0:30	-	-	6.86	0						
1330	0:45	-	-	6.86	0						
1345	1:00	-	-	6.86	0						
1400	1:15	-	-	6.86	0						
1415	1:30	-	-	6.86	0						
1430	1:45	-	-	6.86	0						
1445	2:00	8.79	0	6.86	0						
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F °C)	Vac Truck ("Hg RPM)
0:00	>200,000	400 -	87 -	22 600
0:15	>200,000	400 -	96 -	
0:30	>200,000	400 -	96 -	
0:45	>200,000	400 -	97 -	
1:00	>200,000	400 -	97 -	22 600
1:15	190,664	400 -	98 -	
1:30	176,560	400 -	97 -	
1:45	163,080	400 -	98 -	
2:00	147,992	400 -	98 -	21 600
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LEJEUNE, NC

Location: MCAS NEW RIVER Bldg AS-1/98

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	XX-20	XX-21			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.76	13.81			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	8.11	0			
DEPTH TO WATER (FT)	11.53	5.59			
PRODUCT THICKNESS (FT)	3.4/2	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
0910	0:00	11.53	8.11	5.59	0						
0925	0:15	-	-	5.59	0						
0940	0:30	-	-	5.59	0						
0955	0:45	-	-	5.59	0						
1010	1:00	-	-	5.60	0						
1025	1:15	-	-	5.60	0						
1040	1:30	-	-	5.60	0						
1055	1:45	-	-	5.60	0						
1110	2:00	8.68	0	5.60	0						
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) DTP - Depth to Product (ft, TOC)

Project #: 844272

Initials: TL

Date: 8/6/04

Start Time: 0910

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	110
Product (gals)	1 3/4

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Temp (°F)	Vac Truck ("Hg)
0:00	>200,000	400	73	22
0:15	>200,000	400	82	600
0:30	>200,000	400	83	
0:45	>200,000	400	84	
1:00	195,064	400	85	21
1:15	185,246	400	87	600
1:30	173,796	400	87	
1:45	162,200	400	88	
2:00	151,724	400	89	21
2:30				600
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor H₂ S₂ (AFVR) Data Sheet

Facility: MCB CAMP LESTUNE, NC

Location: MCAS NEW RIVER BLDG AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	XR-16	XR-23			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.50	13.65			
DIAMETER (INCH)	4"	2"			
DEPTH TO PRODUCT (FT)	8.23	0			
DEPTH TO WATER (FT)	10.09	6.99			
PRODUCT THICKNESS (FT)	1.86	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1150	0:00	10.09	8.23	6.99	0						
1205	0:15	-	-	6.99	0						
1220	0:30	-	-	6.99	0						
1235	0:45	-	-	6.99	0						
1250	1:00	-	-	6.99	0						
1305	1:15	-	-	6.99	0						
1320	1:30	-	-	6.99	0						
1335	1:45	-	-	6.99	0						
1350	2:00	8.79	0	6.99	0						
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

Project #: 844272

Initials: TRC

Date: 8/8/04

Start Time: 1150

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	140
Product (gals)	2

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Temp (°F)	Vac Truck ("Hg)
0:00	>200,000	400	79	21
0:15	>200,000	400	90	600
0:30	>200,000	400	92	
0:45	>200,000	400	93	
1:00	>200,000	400	94	21
1:15	190,580	400	95	600
1:30	174,932	400	97	
1:45	157,160	400	97	
2:00	141,632	400	99	21
2:30				600
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LETEDNE, NC
 Location: MCAS NEW RIVER TBLD, AS-498

Project #: 844272

Initials: ZL

Date: 8/8/04

Start Time: 1430

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	12-12	MW-06			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.96	50.21			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	5.04	0			
DEPTH TO WATER (FT)	8.02	7.21			
PRODUCT THICKNESS (FT)	2.98	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	150
Product (gals)	2 1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1430	0:00	8.02	5.04	7.21	0						
1445	0:15	-	-	7.21	0						
1500	0:30	-	-	7.20	0						
1515	0:45	-	-	7.20	0						
1530	1:00	-	-	7.19	0						
1545	1:15	-	-	7.19	0						
1600	1:30	-	-	7.18	0						
1615	1:45	-	-	7.17	0						
1630	2:00	-	-	7.17	0						
1700	2:30	5.63	0	7.15	0						
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Temp (°F)	Vac Truck ("Hg)
0:00	> 200,000	400	83	21
0:15	> 200,000	400	83	600
0:30	> 200,000	400	95	
0:45	> 200,000	400	97	
1:00	> 200,000	400	98	
1:15	195,272	400	99	21
1:30	186,468	400	100	600
1:45	175,096	400	101	
2:00	165,052	400	100	20
2:30	158,392	400	99	600
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LEBONE, NC

Location: MCAS NEW RIVER Bldg AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	ZZ-18	ZZ-23			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.50	13.65			
DIAMETER (INCH)	4"	2"			
DEPTH TO PRODUCT (FT)	6.46	0			
DEPTH TO WATER (FT)	8.70	4.96			
PRODUCT THICKNESS (FT)	2.24	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1330	0:00	8.70	6.46	4.96	0						
1345	0:15	-	-	4.96	0						
1400	0:30	-	-	4.96	0						
1415	0:45	-	-	4.96	0						
1430	1:00	-	-	4.96	0						
1445	1:15	-	-	4.96	0						
1500	1:30	-	-	4.96	0						
1515	1:45	-	-	4.96	0						
1530	2:00	6.98	0	4.96	0						
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

Project #: 844272

Initials: RL

Date: 8/16/04

Start Time: 1330

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	190
Product (gals)	2 1/2

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F °C)	Vac Truck ("Hg RPM)
0:00	>200,000	400 -	85 -	21 600
0:15	>200,000	400 -	92 -	
0:30	>200,000	400 -	94 -	
0:45	>200,000	400 -	95 -	
1:00	196,928	400 -	96 -	20 600
1:15	187,820	400 -	96 -	
1:30	172,796	400 -	96 -	
1:45	162,564	400 -	96 -	
2:00	151,240	400 -	97 -	20 600
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCAS CAMP LESTER, NC

Location: MCAS NEW RIVER BLDG AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	ZZ-16	ZZ-23			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.50	13.65			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	6.75	0			
DEPTH TO WATER (FT)	9.89	5.54			
PRODUCT THICKNESS (FT)	3.74	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1205	0:00	9.89	6.75	5.54	0						
1220	0:15	-	-	5.54	0						
1235	0:30	-	-	5.54	0						
1250	0:45	-	-	5.54	0						
1305	1:00	-	-	5.54	0						
1320	1:15	-	-	5.54	0						
1335	1:30	-	-	5.54	0						
1350	1:45	-	-	5.53	0						
1405	2:00	7.82	0	5.53	0						
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

Project #: 844272

Initials: RL

Date: 8/27/04

Start Time: 1205

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	160
Product (gals)	2 1/4

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity		Temp		Vac Truck	
		(ft/sec)	(m/sec)	(°F)	(°C)	("Hg)	(RPM)
0:00	>200,000	400	-	84	-	20	600
0:15	>200,000	400	-	90	-		
0:30	>200,000	400	-	91	-		
0:45	>200,000	400	-	92	-		
1:00	>200,000	400	-	94	-	20	600
1:15	195,072	400	-	94	-		
1:30	177,052	400	-	94	-		
1:45	160,336	400	-	93	-		
2:00	147,668	400	-	93	-	20	600
2:30							
3:00							
3:30							
4:00							
4:30							
5:00							
5:30							
6:00							

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LEBEUNE, NC
 Location: MCAS NEW RIVER Bldg AS498

Project #: 844272

Initials: XL

Date: 9/4/04

Start Time: 0800

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-20	RR-21			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.76	13.81			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	6.81	0			
DEPTH TO WATER (FT)	7.97	2.74			
PRODUCT THICKNESS (FT)	1.16	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	95
Product (gals)	1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
0800	0:00	7.97	6.81	2.74	0						
0815	0:15	-	-	2.74	0						
0830	0:30	-	-	2.74	0						
0845	0:45	-	-	2.75	0						
0900	1:00	-	-	2.75	0						
0915	1:15	-	-	2.75	0						
0930	1:30	-	-	2.75	0						
0945	1:45	-	-	2.75	0						
1000	2:00	7.63	0	2.75	0						
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Temp (°F)	Vac Truck ("Hg)
0:00	>200,000	400	76	21
0:15	>200,000	400	83	600
0:30	>200,000	400	84	
0:45	>200,000	400	84	
1:00	194,108	400	85	
1:15	185,560	400	86	21
1:30	173,996	400	85	600
1:45	163,332	400	86	
2:00	153,176	400	86	20
2:30				600
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LEJEUNE, NC

Location: MCAS NEW RIVER BLDG AS-498

Project #: 844272

Initials: TL

Date: 9/4/04

Start Time: 1045

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	TL-18	TL-23			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.50	13.65			
DIAMETER (INCH)	4"	2"			
DEPTH TO PRODUCT (FT)	6.62	0			
DEPTH TO WATER (FT)	9.34	5.27			
PRODUCT THICKNESS (FT)	2.72	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	140
Product (gals)	1 1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1045	0:00	9.34	6.62	5.27	0						
1100	0:15	-	-	5.27	0						
1115	0:30	-	-	5.27	0						
1130	0:45	-	-	5.27	0						
1145	1:00	-	-	5.27	0						
1200	1:15	-	-	5.27	0						
1215	1:30	-	-	5.28	0						
1230	1:45	-	-	5.28	0						
1245	2:00	7.91	0	5.28	0						
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F) (°C)	Vac Truck ("Hg) (RPM)
0:00	>200,000	400 -	80 -	21 600
0:15	>200,000	400 -	87 -	
0:30	>200,000	400 -	88 -	
0:45	>200,000	400 -	89 -	
1:00	>200,000	400 -	89 -	20 600
1:15	189,252	400 -	90 -	
1:30	176,780	400 -	90 -	
1:45	165,932	400 -	90 -	
2:00	155,164	400 -	91 -	20 600
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LESTUNE, NC

Location: MCAS NEW RIVER BLDG AS-458

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RZ16	RZ-46			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.75	20.45			
DIAMETER (INCH)	6"	6"			
DEPTH TO PRODUCT (FT)	4.86	0			
DEPTH TO WATER (FT)	5.70	1.24			
PRODUCT THICKNESS (FT)	0.84	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1330	0:00	5.70	4.86	1.24	0						
1345	0:15	-	-	1.24	0						
1400	0:30	-	-	1.24	0						
1415	0:45	-	-	1.24	0						
1430	1:00	-	-	1.24	0						
1445	1:15	-	-	1.24	0						
1500	1:30	-	-	1.24	0						
1515	1:45	-	-	1.24	0						
1530	2:00	5.37	0	1.24	0						
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

Project #: 844272

Initials: RL

Date: 9/4/04

Start Time: 1330

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	165
Product (gals)	1 1/4

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F °C)	Vac Truck ("Hg RPM)
0:00	>200,000	400 -	83 -	20 600
0:15	>200,000	400 -	91 -	
0:30	>200,000	400 -	92 -	
0:45	>200,000	400 -	94 -	
1:00	>200,000	400 -	94 -	20 600
1:15	142,346	400 -	95 -	
1:30	180,688	400 -	95 -	
1:45	166,212	400 -	95 -	
2:00	146,820	400 -	95 -	19 600
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Facility: MCB CAMP LEBEUNE, NCLocation: MCAS NEW RIVER, BLDG AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	TR-12	NW-06			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.96	50.21			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	4.09	0			
DEPTH TO WATER (FT)	5.31	5.74			
PRODUCT THICKNESS (FT)	1.22	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 844271Initials: TLDate: 9/25/04Start Time: 0915

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	120
Product (gals)	1

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
0915	0:00	5.31	4.09	5.74	0						
0930	0:15	-	-	5.74	0						
0945	0:30	-	-	5.73	0						
1000	0:45	-	-	5.73	0						
1015	1:00	-	-	5.73	0						
1030	1:15	-	-	5.72	0						
1045	1:30	-	-	5.72	0						
1100	1:45	-	-	5.71	0						
1115	2:00	4.92	0	5.71	0						
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Temp (°F)	Vac Truck ("Hg)
0:00	>200,000	400	78	19
0:15	>200,000	400	86	600
0:30	>200,000	400	88	
0:45	>200,000	400	89	
1:00	>200,000	400	89	19
1:15	187,580	400	90	600
1:30	174,024	400	91	
1:45	159,596	400	92	
2:00	139,084	400	92	18
2:30				600
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Facility: MOB CAMP LESTUNE, NCLocation: MCHS NEW RIVER, BLDG AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-16	RR-46			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	19.75	20.45			
DIAMETER (INCH)	6"	6"			
DEPTH TO PRODUCT (FT)	5.03	0			
DEPTH TO WATER (FT)	5.59	1.71			
PRODUCT THICKNESS (FT)	0.56	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1215	0:00	5.59	5.03	1.71	0						
1230	0:15	-	-	1.71	0						
1245	0:30	-	-	1.71	0						
1300	0:45	-	-	1.71	0						
1315	1:00	-	-	1.71	0						
1330	1:15	-	-	1.71	0						
1345	1:30	-	-	1.71	0						
1400	1:45	-	-	1.71	0						
1415	2:00	5.37	0	1.71	0						
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) DTP - Depth to Product (ft, TOC)

Project #: 844271Initials: TLLDate: 9/25/04Start Time: 1215

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	155
Product (gals)	1

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F °C)	Vac Truck ("Hg RPM)
0:00	>200,000	400 -	83 -	18 600
0:15	>200,000	400 -	91 -	
0:30	>200,000	400 -	93 -	
0:45	>200,000	400 -	94 -	
1:00	195,232	400 -	95 -	18 600
1:15	183,688	400 -	95 -	
1:30	172,580	400 -	96 -	
1:45	162,468	400 -	96 -	
2:00	151,932	400 -	95 -	18 600
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Facility: MCB CAMP LEJEUNE, NCLocation: MCAS NEW RIVER BLDG AS-498Project #: 844271Initials: TCLDate: 10/2/04Start Time: 0815

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	22-20	22-21			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.76	13.81			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	6.74	0			
DEPTH TO WATER (FT)	11.51	3.32			
PRODUCT THICKNESS (FT)	4.77	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	110
Product (gals)	2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
0815	0:00	11.51	6.74	3.32	0						
0830	0:15	-	-	3.32	0						
0845	0:30	-	-	3.32	0						
0900	0:45	-	-	3.32	0						
0915	1:00	-	-	3.32	0						
0930	1:15	-	-	3.32	0						
0945	1:30	-	-	3.32	0						
1000	1:45	-	-	3.33	0						
1015	2:00	-	-	3.33	0						
1045	2:30	7.58	0	3.33	0						
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F °C)	Vac Truck ("Hg RPM)
0:00	>200,000	400 -	72 -	18 600
0:15	>200,000	400 -	78 -	
0:30	>200,000	400 -	79 -	
0:45	>200,000	400 -	79 -	
1:00	>200,000	400 -	80 -	18 600
1:15	>200,000	400 -	82 -	
1:30	191,232	400 -	82 -	
1:45	179,104	400 -	83 -	
2:00	164,808	400 -	83 -	17 600
2:30	152,780	400 -	83 -	
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Facility: MCB CAMP LEJEUNE, NC
 Location: MCAS NEW RIVER, Bldg AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	<u>RR-12</u>	<u>RR-06</u>			
AFVR WELL (YES/NO)	<u>YES</u>	<u>NO</u>			
WELL DEPTH (FT BLS)	<u>14.96</u>	<u>50.21</u>			
DIAMETER (INCH)	<u>2"</u>	<u>2"</u>			
DEPTH TO PRODUCT (FT)	<u>4.66</u>	<u>0</u>			
DEPTH TO WATER (FT)	<u>5.82</u>	<u>6.78</u>			
PRODUCT THICKNESS (FT)	<u>1.16</u>	<u>0</u>			
SCREEN INTERV. (FT BLS)	<u>N/A</u>	<u>N/A</u>			

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
<u>1205</u>	0:00	<u>5.82</u>	<u>4.66</u>	<u>6.78</u>	<u>0</u>						
<u>1220</u>	0:15	<u>-</u>	<u>-</u>	<u>6.78</u>	<u>0</u>						
<u>1235</u>	0:30	<u>-</u>	<u>-</u>	<u>6.77</u>	<u>0</u>						
<u>1250</u>	0:45	<u>-</u>	<u>-</u>	<u>6.77</u>	<u>0</u>						
<u>1305</u>	1:00	<u>-</u>	<u>-</u>	<u>6.77</u>	<u>0</u>						
<u>1320</u>	1:15	<u>-</u>	<u>-</u>	<u>6.76</u>	<u>0</u>						
<u>1335</u>	1:30	<u>-</u>	<u>-</u>	<u>6.76</u>	<u>0</u>						
<u>1350</u>	1:45	<u>-</u>	<u>-</u>	<u>6.75</u>	<u>0</u>						
<u>1405</u>	2:00	<u>5.27</u>	<u>0</u>	<u>6.74</u>	<u>0</u>						
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) DTP - Depth to Product (ft, TOC)

Project #: 844271Initials: TLDate: 10/8/04Start Time: 1205

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	<u>YES</u>

Fluids Recovered	
Water (gals)	<u>100</u>
Product (gals)	<u>1/2</u>

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Temp (°F)	Temp (°C)	Vac Truck ("Hg)	Vac Truck (RPM)
0:00	<u>>200,000</u>	<u>400</u>	<u>75</u>	<u>-</u>	<u>19</u>	<u>600</u>
0:15	<u>>200,000</u>	<u>400</u>	<u>81</u>	<u>-</u>		
0:30	<u>>200,000</u>	<u>400</u>	<u>82</u>	<u>-</u>		
0:45	<u>197,972</u>	<u>400</u>	<u>84</u>	<u>-</u>		
1:00	<u>188,312</u>	<u>400</u>	<u>84</u>	<u>-</u>	<u>18</u>	<u>600</u>
1:15	<u>180,716</u>	<u>400</u>	<u>85</u>	<u>-</u>		
1:30	<u>169,164</u>	<u>400</u>	<u>85</u>	<u>-</u>		
1:45	<u>161,340</u>	<u>400</u>	<u>85</u>	<u>-</u>		
2:00	<u>153,976</u>	<u>400</u>	<u>85</u>	<u>-</u>	<u>17</u>	<u>600</u>
2:30						
3:00						
3:30						
4:00						
4:30						
5:00						
5:30						
6:00						

Aggressive Fluid Vapor R

y (AFVR) Data Sheet

Facility: MCTS CAMP LETEVINE, NCLocation: MICAS NEW RIVER, BLDG, AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-16	RR-7			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.07	14.72			
DIAMETER (INCH)	4"	2"			
DEPTH TO PRODUCT (FT)	7.74	0			
DEPTH TO WATER (FT)	8.11	6.33			
PRODUCT THICKNESS (FT)	0.37	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 844271Initials: RLDate: 10/8/04Start Time: 1455

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	80
Product (gals)	14

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1455	0:00	6.11	7.74	6.33	0						
1510	0:15	-	-	6.33	0						
1525	0:30	-	-	6.33	0						
1540	0:45	-	-	6.33	0						
1555	1:00	-	-	6.33	0						
1610	1:15	-	-	6.33	0						
1625	1:30	8.02	0	6.33	0						
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F °C)	Vac Truck ("Hg RPM)
0:00	>200,000	400 -	76 -	18 600
0:15	>200,000	400 -	83 -	
0:30	195,372	400 -	84 -	
0:45	182,844	400 -	86 -	
1:00	171,720	400 -	86 -	17 600
1:15	158,500	400 -	87 -	
1:30	141,792	400 -	86 -	
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Facility: MCB CAMP LEBLANC, NCLocation: ALCAS NEW RIVER, BLDG AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	22-20	22-21			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.76	13.81			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	7.68	0			
DEPTH TO WATER (FT)	9.87	3.93			
PRODUCT THICKNESS (FT)	2.19	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
0735	0:00	9.87	7.68	3.93	0						
0750	0:15	-	-	3.93	0						
0805	0:30	-	-	3.93	0						
0820	0:45	-	-	3.93	0						
0835	1:00	-	-	3.94	0						
0850	1:15	-	-	3.94	0						
0905	1:30	-	-	3.94	0						
0920	1:45	-	-	3.94	0						
0935	2:00	8.59	0	3.94	0						
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

Project #: 844271Initials: ZLDate: 10/9/04Start Time: 0735

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	110
Product (gals)	1

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F °C)	Vac Truck ("Hg RPM)	
0:00	>200,000	400 -	68 -	18	600
0:15	>200,000	400 -	75 -		
0:30	>200,000	400 -	77 -		
0:45	>200,000	400 -	78 -		
1:00	196,928	400 -	80 -	18	600
1:15	186,056	400 -	81 -		
1:30	176,312	400 -	81 -		
1:45	165,580	400 -	82 -		
2:00	156,404	400 -	82 -	17	600
2:30					
3:00					
3:30					
4:00					
4:30					
5:00					
5:30					
6:00					

Aggressive Fluid Vapor R

y (AFVR) Data Sheet

Facility: MCB CAMP LESTER, NC

Location: MUAS NEW RIVER, BLDG AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	22-18	22-23			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.50	13.65			
DIAMETER (INCH)	4"	2"			
DEPTH TO PRODUCT (FT)	7.59	0			
DEPTH TO WATER (FT)	10.14	6.38			
PRODUCT THICKNESS (FT)	2.55	0			
SCREEN INTERV (FT BLS)	N/A	N/A			

Project #: 844271

Initials: RL

Date: 10/9/04

Start Time: 1025

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	130
Product (gals)	1 1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1025	0:00	10.14	7.59	6.38	0						
1040	0:15	-	-	6.38	0						
1055	0:30	-	-	6.38	0						
1110	0:45	-	-	6.38	0						
1125	1:00	-	-	6.38	0						
1140	1:15	-	-	6.39	0						
1153	1:30	-	-	6.39	0						
1210	1:45	-	-	6.39	0						
1225	2:00	9.21	0	6.39	0						
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F °C)	Vac Truck ("Hg RPM)
0:00	>200,000	400 -	73 -	18 600
0:15	>200,000	400 -	80 -	
0:30	>200,000	400 -	82 -	
0:45	>200,000	400 -	83 -	
1:00	>200,000	400 -	85 -	17 600
1:15	190,632	400 -	85 -	
1:30	175,196	400 -	86 -	
1:45	157,136	400 -	87 -	
2:00	139,968	400 -	87 -	17 600
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCS CAMP LEEUNE, NC

Location: MCA5 NEW RIVER BLDG AS 498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR 20	RR 21			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.76	13.81			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	8.14	0			
DEPTH TO WATER (FT)	12.45	4.87			
PRODUCT THICKNESS (FT)	4.31	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
0735	0:00	12.45	8.14	4.87	0						
0750	0:15	-	-	4.87	0						
0805	0:30	-	-	4.87	0						
0820	0:45	-	-	4.87	0						
0835	1:00	-	-	4.87	0						
0850	1:15	-	-	4.87	0						
0905	1:30	-	-	4.87	0						
0920	1:45	-	-	4.87	0						
0935	2:00	9.03	0	4.87	0						
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) DTP - Depth to Product (ft, TOC)

Project #: 844271

Initials: RL

Date: 10/26/04

Start Time: 0735

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	Yes

Fluids Recovered	
Water (gals)	110
Product (gals)	2

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Temp (°F)	Vac Truck ("Hg)
0:00	>200,000	400	53	18
0:15	>200,000	400	59	
0:30	>200,000	400	60	
0:45	>200,000	400	62	
1:00	197,924	400	63	18
1:15	188,460	400	63	
1:30	178,948	400	63	
1:45	166,012	400	64	
2:00	149,396	400	64	17
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCTB CAMP LESTUNE, NC

Location: MICAS NEW RIVER BLDG 45-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	22-18	22-23			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.50	13.65			
DIAMETER (INCH)	4"	2"			
DEPTH TO PRODUCT (FT)	8.46	0			
DEPTH TO WATER (FT)	10.51	7.34			
PRODUCT THICKNESS (FT)	2.05	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1025	0:00	10.51	8.46	7.34	0						
1040	0:15	-	-	7.34	0						
1055	0:30	-	-	7.34	0						
1110	0:45	-	-	7.34	0						
1125	1:00	-	-	7.34	0						
1140	1:15	-	-	7.34	0						
1155	1:30	-	-	7.34	0						
1210	1:45	-	-	7.35	0						
1225	2:00	9.17	0	7.35	0						
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

Project #: 844271

Initials: TCL

Date: 10/26/04

Start Time: 1025

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	130
Product (gals)	2

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Temp (°F)	Vac Truck ("Hg)
0:00	>200,000	400	59	18
0:15	>200,000	400	65	
0:30	>200,000	400	67	
0:45	>200,000	400	68	
1:00	>200,000	400	69	17
1:15	191,340	400	70	
1:30	176,356	400	71	
1:45	162,968	400	71	
2:00	141,604	400	71	17
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LESTER, NC

Project #: 844271

Location: MCAS NEW RIVER BLDG AS-3905

Initials: RL

Date: 10/26/04

Start Time: 1315

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RLW-1	OBG-6			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	21.48	17.39			
DIAMETER (INCH)	6"	2"			
DEPTH TO PRODUCT (FT)	5.19	0			
DEPTH TO WATER (FT)	5.47	6.23			
PRODUCT THICKNESS (FT)	0.28	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	50
Product (gals)	1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1315	0:00	5.47	5.19	6.23	0						
1330	0:15	-	-	6.23	0						
1345	0:30	-	-	6.23	0						
1400	0:45	-	-	6.23	0						
1415	1:00	5.38	0	6.23	0						
	1:15										
	1:30										
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F) (°C)	Vac Truck ("Hg) (RPM)
0:00	197,016	400 -	64 -	17 600
0:15	186,420	400 -	71 -	
0:30	178,224	400 -	72 -	
0:45	165,748	400 -	73 -	
1:00	159,576	400 -	73 -	17 600
1:15				
1:30				
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

NOTE: DTW - Depth to Water (ft, TOC) DTP - Depth to Product (ft, TOC)

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LEBEUNE, NC

Location: MCPS NEW RIVER, BLDG AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	<u>ZZ-12</u>	<u>AW-06</u>			
AFVR WELL (YES/NO)	<u>YES</u>	<u>NO</u>			
WELL DEPTH (FT BLS)	<u>14.96</u>	<u>50.21</u>			
DIAMETER (INCH)	<u>2"</u>	<u>2"</u>			
DEPTH TO PRODUCT (FT)	<u>5.05</u>	<u>0</u>			
DEPTH TO WATER (FT)	<u>7.54</u>	<u>7.31</u>			
PRODUCT THICKNESS (FT)	<u>2.54</u>	<u>0</u>			
SCREEN INTERV. (FT BLS)	<u>N/A</u>	<u>N/A</u>			

Project #: 844271

Initials: RL

Date: 11/13/04

Start Time: 0845

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	<u>YES</u>

Fluids Recovered	
Water (gals)	<u>110</u>
Product (gals)	<u>1</u>

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
<u>0845</u>	0:00	<u>7.54</u>	<u>5.05</u>	<u>7.31</u>	<u>0</u>						
<u>0900</u>	0:15	-	-	<u>7.31</u>	<u>0</u>						
<u>0915</u>	0:30	-	-	<u>7.30</u>	<u>0</u>						
<u>0930</u>	0:45	-	-	<u>7.30</u>	<u>0</u>						
<u>0945</u>	1:00	-	-	<u>7.29</u>	<u>0</u>						
<u>1000</u>	1:15	-	-	<u>7.28</u>	<u>0</u>						
<u>1015</u>	1:30	-	-	<u>7.27</u>	<u>0</u>						
<u>1030</u>	1:45	-	-	<u>7.26</u>	<u>0</u>						
<u>1045</u>	2:00	<u>6.40</u>	<u>0</u>	<u>7.25</u>	<u>0</u>						
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F) (°C)	Vac Truck ("Hg) (RPM)
0:00	<u>>200,000</u>	<u>400</u> -	<u>47</u> -	<u>18</u> <u>600</u>
0:15	<u>>200,000</u>	<u>400</u> -	<u>52</u> -	
0:30	<u>>200,000</u>	<u>400</u> -	<u>53</u> -	
0:45	<u>>200,000</u>	<u>400</u> -	<u>53</u> -	
1:00	<u>>200,000</u>	<u>400</u> -	<u>53</u> -	<u>18</u> <u>600</u>
1:15	<u>188,304</u>	<u>400</u> -	<u>54</u> -	
1:30	<u>174,204</u>	<u>400</u> -	<u>54</u> -	
1:45	<u>160,852</u>	<u>400</u> -	<u>54</u> -	
2:00	<u>147,940</u>	<u>400</u> -	<u>54</u> -	<u>18</u> <u>600</u>
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCS CAMP LEBEVNE, NL

Project #: 844271

Location: MCA5 NEW RIVER, BLDG AS-498

Initials: KL

Baseline Data - AFVR and Observation Wells

Date: 11/13/04

Start Time: 1115

WELL IDENTIFICATION	ZZ-18	ZZ-23			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.50	13.65			
DIAMETER (INCH)	4"	2"			
DEPTH TO PRODUCT (FT)	8.86	0			
DEPTH TO WATER (FT)	11.18	7.74			
PRODUCT THICKNESS (FT)	2.32	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	125
Product (gals)	1 1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1115	0:00	11.18	8.86	7.74	0						
1130	0:15	-	-	7.74	0						
1145	0:30	-	-	7.74	0						
1200	0:45	-	-	7.74	0						
1215	1:00	-	-	7.74	0						
1230	1:15	-	-	7.75	0						
1245	1:30	-	-	7.75	0						
1300	1:45	9.84	0	7.75	0						
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F) (°C)	Vac Truck ("Hg) (RPM)
0:00	>200,000	400 -	53 -	18 600
0:15	>200,000	400 -	58 -	
0:30	>200,000	400 -	59 -	
0:45	194,528	400 -	60 -	
1:00	183,148	400 -	60 -	18 600
1:15	173,076	400 -	60 -	
1:30	163,420	400 -	60 -	
1:45	149,704	400 -	61 -	
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LESTUNE, NC

Project #: 044271

Location: MCAS NEW RIVER

BLDG AS-498

Initials: TCL

Date: 11/13/04

Baseline Data - AFVR and Observation Wells

Start Time: 1345

WELL IDENTIFICATION	RR-20	RR-21			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.76	13.81			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	8.32	0			
DEPTH TO WATER (FT)	12.55	4.43			
PRODUCT THICKNESS (FT)	4.23	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	100
Product (gals)	2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1345	0:00	12.55	8.32	4.43	0						
1400	0:15	-	-	4.43	0						
1415	0:30	-	-	4.43	0						
1430	0:45	-	-	4.43	0						
1445	1:00	-	-	4.44	0						
1500	1:15	-	-	4.44	0						
1515	1:30	-	-	4.44	0						
1530	1:45	-	-	4.45	0						
1545	2:00	9.77	0	4.45	0						
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F °C)	Vac Truck ("Hg RPM)
0:00	>200,000	400 -	55 -	18 600
0:15	196,952	400 -	60 -	
0:30	>200,000	400 -	61 -	
0:45	>200,000	400 -	62 -	
1:00	193,252	400 -	62 -	18 600
1:15	185,148	400 -	62 -	
1:30	175,820	400 -	61 -	
1:45	164,584	400 -	62 -	
2:00	154,776	400 -	61 -	18 600
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LEJEUNE, NC

Project #: 844271

Location: MICAS NEW RIVER BLDG AS-498

Initials: RL

Baseline Data - AFVR and Observation Wells

Date: 11/14/04

Start Time: 0845

WELL IDENTIFICATION	RR-16	RR-45			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	19.75	20.45			
DIAMETER (INCH)	6"	6"			
DEPTH TO PRODUCT (FT)	6.87	0			
DEPTH TO WATER (FT)	7.26	1.79			
PRODUCT THICKNESS (FT)	0.39	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	60
Product (gals)	1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
0845	0:00	7.26	6.87	1.79	0						
0900	0:15	-	-	1.79	0						
0915	0:30	-	-	1.79	0						
0930	0:45	-	-	1.79	0						
0945	1:00	7.02	0	1.79	0						
	1:15										
	1:30										
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F) (°C)	Vac Truck ("Hg) (RPM)
0:00	193,412	400 -	44 -	18 600
0:15	160,908	400 -	49 -	
0:30	170,740	400 -	50 -	
0:45	158,488	400 -	51 -	
1:00	139,556	400 -	52 -	18 600
1:15				
1:30				
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCS CAMP LESTUNE, NC

Location: MCS NEW RIVER Bldg AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	<u>R2-12</u>	<u>NW-06</u>			
AFVR WELL (YES/NO)	<u>YES</u>	<u>NO</u>			
WELL DEPTH (FT BLS)	<u>14.96</u>	<u>50.21</u>			
DIAMETER (INCH)	<u>2"</u>	<u>2"</u>			
DEPTH TO PRODUCT (FT)	<u>5.32</u>	<u>0</u>			
DEPTH TO WATER (FT)	<u>7.78</u>	<u>7.71</u>			
PRODUCT THICKNESS (FT)	<u>2.46</u>	<u>0</u>			
SCREEN INTERV. (FT BLS)	<u>N/A</u>	<u>N/A</u>			

Project #: 844271

Initials: KL

Date: 11/23/04

Start Time: 0745

AFVR Stack and Vacuum Truck Data

Stack Diameter	<u>6 inches</u>
FID Calibration Gas	<u>Methane</u>
Calibrated yes/no	<u>YES</u>

Fluids Recovered	
Water (gals)	<u>120</u>
Product (gals)	<u>1</u>

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
<u>0745</u>	0:00	<u>7.78</u>	<u>5.32</u>	<u>7.71</u>	<u>0</u>						
<u>0800</u>	0:15	<u>-</u>	<u>-</u>	<u>7.71</u>	<u>0</u>						
<u>0815</u>	0:30	<u>-</u>	<u>-</u>	<u>7.70</u>	<u>0</u>						
<u>0830</u>	0:45	<u>-</u>	<u>-</u>	<u>7.70</u>	<u>0</u>						
<u>0845</u>	1:00	<u>-</u>	<u>-</u>	<u>7.69</u>	<u>0</u>						
<u>0900</u>	1:15	<u>-</u>	<u>-</u>	<u>7.68</u>	<u>0</u>						
<u>0915</u>	1:30	<u>-</u>	<u>-</u>	<u>7.68</u>	<u>0</u>						
<u>0930</u>	1:45	<u>-</u>	<u>-</u>	<u>7.67</u>	<u>0</u>						
<u>0945</u>	2:00	<u>6.13</u>	<u>0</u>	<u>7.66</u>	<u>0</u>						
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Temp (°F)	Vac Truck ("Hg)
0:00	<u>>200,000</u>	<u>400</u>	<u>59</u>	<u>18</u>
0:15	<u>>200,000</u>	<u>400</u>	<u>64</u>	
0:30	<u>>200,000</u>	<u>400</u>	<u>66</u>	
0:45	<u>>200,000</u>	<u>400</u>	<u>67</u>	
1:00	<u>>200,000</u>	<u>400</u>	<u>67</u>	<u>18</u>
1:15	<u>191,248</u>	<u>400</u>	<u>68</u>	
1:30	<u>177,380</u>	<u>400</u>	<u>69</u>	
1:45	<u>164,624</u>	<u>400</u>	<u>69</u>	
2:00	<u>149,932</u>	<u>400</u>	<u>70</u>	<u>18</u>
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCTS CAMP LESTONE, NC

Project #: 844271

Location: MCHS NEW RIVER, Bldg AS 498

Initials: TCL

Baseline Data - AFVR and Observation Wells

Date: 11/23/04

Start Time: 1030

WELL IDENTIFICATION	RR-16	RR-46			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	19.75	20.45			
DIAMETER (INCH)	6"	6"			
DEPTH TO PRODUCT (FT)	6.91	0			
DEPTH TO WATER (FT)	7.25	1.62			
PRODUCT THICKNESS (FT)	0.34	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	75
Product (gals)	1/4

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1030	0:00	7.25	6.91	1.62	0						
1045	0:15	-	-	1.62	0						
1100	0:30	-	-	1.62	0						
1115	0:45	-	-	1.62	0						
1130	1:00	-	-	1.62	0						
1145	1:15	7.07	0	1.62	0						
	1:30										
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F) (°C)	Vac Truck ("Hg) (RPM)
0:00	>200,880	400 -	61 -	16 600
0:15	198,492	400 -	67 -	
0:30	190,056	400 -	67 -	
0:45	175,912	400 -	66 -	
1:00	161,024	400 -	66 -	15 600
1:15	142,924	400 -	66 -	
1:30				
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LEBEUNE, NC

Location: MICAS NEW TOWER BLDG AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	TR-19	TR-23			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.50	13.65			
DIAMETER (INCH)	4"	2"			
DEPTH TO PRODUCT (FT)	8.51	0			
DEPTH TO WATER (FT)	11.14	7.62			
PRODUCT THICKNESS (FT)	2.63	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 844271

Initials: TL

Date: 11/27/04

Start Time: 0855

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	105
Product (gals)	1 1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
0855	0:00	11.14	8.51	7.62	0						
0910	0:15	-	-	7.62	0						
0925	0:30	-	-	7.62	0						
0940	0:45	-	-	7.62	0						
0955	1:00	-	-	7.62	0						
1010	1:15	-	-	7.62	0						
1025	1:30	9.27	0	7.63	0						
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F) (°C)	Vac Truck ("Hg) (RPM)
0:00	>200,000	400 -	47 -	16 600
0:15	>200,000	400 -	57 -	
0:30	196,932	400 -	52 -	
0:45	186,324	400 -	54 -	
1:00	173,480	400 -	54 -	15 600
1:15	159,208	400 -	55 -	
1:30	142,696	400 -	55 -	
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCTB CAMP LEJEUNE, NC

Location: MCAS NEW RIVER BLDG AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-20	RR-21			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.76	13.81			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	8.05	0			
DEPTH TO WATER (FT)	12.91	4.11			
PRODUCT THICKNESS (FT)	4.86	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 844271

Initials: TCL

Date: 11/27/04

Start Time: 1115

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	80
Product (gals)	2 1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1115	0:00	12.91	8.05	4.11	0						
1130	0:15	-	-	4.11	0						
1145	0:30	-	-	4.11	0						
1200	0:45	-	-	4.11	0						
1215	1:00	-	-	4.11	0						
1230	1:15	-	-	4.12	0						
1245	1:30	8.96	0	4.12	0						
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F) (°C)	Vac Truck ("Hg) (RPM)
0:00	>200,000	400 -	51 -	16 600
0:15	>200,000	400 -	57 -	
0:30	>200,000	400 -	58 -	
0:45	190,064	400 -	59 -	
1:00	177,520	400 -	59 -	15 600
1:15	162,524	400 -	59 -	
1:30	146,796	400 -	60 -	
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LETEUNE, NC

Project #: 844271

Location: MARS NEW RIVER, BLDG AS 498

Initials: RL

Baseline Data - AFVR and Observation Wells

Date: 12/10/04

Start Time: 1230

WELL IDENTIFICATION	RR-12	4W-06			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.96	50.21			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	5.24	0			
DEPTH TO WATER (FT)	8.01	7.42			
PRODUCT THICKNESS (FT)	2.77	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	100
Product (gals)	1

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1230	0:00	8.01	5.24	7.42	0						
1245	0:15	-	-	7.42	0						
1300	0:30	-	-	7.41	0						
1315	0:45	-	-	7.40	0						
1330	1:00	-	-	7.40	0						
1345	1:15	-	-	7.39	0						
1400	1:30	-	-	7.38	0						
1415	1:45	-	-	7.38	0						
1430	2:00	6.22	0	7.37	0						
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Temp (°F)	Vac Truck ("Hg)
0:00	>200,000	400	71	23
0:15	>200,000	400	78	
0:30	>200,000	400	78	
0:45	>200,000	400	79	
1:00	195,316	400	79	23
1:15	184,712	400	80	
1:30	175,676	400	80	
1:45	163,012	400	79	
2:00	150,396	400	79	23
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCTB CAMP LEJEUNE, NC

Location: MCHS NEW RIVER, BLDG AS 498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-16	RR-46			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	19.75	20.45			
DIAMETER (INCH)	6"	6"			
DEPTH TO PRODUCT (FT)	6.99	0			
DEPTH TO WATER (FT)	7.39	1.68			
PRODUCT THICKNESS (FT)	0.40	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 844271

Initials: RL

Date: 12/10/04

Start Time: 1500

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	65
Product (gals)	1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1500	0:00	7.39	6.99	1.68	0						
1515	0:15	-	-	1.68	0						
1530	0:30	-	-	1.68	0						
1545	0:45	-	-	1.68	0						
1600	1:00	7.13	0	1.68	0						
	1:15										
	1:30										
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Temp (°F)	Vac Truck ("Hg)
0:00	189,580	400	67	22
0:15	177,642	400	73	
0:30	169,948	400	74	
0:45	157,228	400	75	
1:00	143,284	400	75	22
1:15				
1:30				
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LEJEUNE, NC

Location: MCAS NEW RIVER BLDG AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	ZZ-20	ZZ-21			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.76	13.81			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	8.37	0			
DEPTH TO WATER (FT)	13.06	4.89			
PRODUCT THICKNESS (FT)	4.69	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 844271

Initials: ZL

Date: 12/12/04

Start Time: 0830

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	125
Product (gals)	2 1/4

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
0830	0:00	13.06	8.37	4.89	0						
0845	0:15	-	-	4.89	0						
0900	0:30	-	-	4.89	0						
0915	0:45	-	-	4.89	0						
0930	1:00	-	-	4.89	0						
0945	1:15	-	-	4.89	0						
1000	1:30	-	-	4.90	0						
1015	1:45	-	-	4.90	0						
1030	2:00	9.62	0	4.90	0						
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Temp (°F)	Vac Truck ("Hg)
0:00	>200,000	400	43	23
0:15	>200,000	400	48	
0:30	>200,000	400	49	
0:45	>200,000	400	49	
1:00	>200,000	400	49	23
1:15	192,032	400	50	
1:30	178,464	400	50	
1:45	165,432	400	51	
2:00	151,780	400	51	23
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LEJEUNE, NC

Location: MICAS NEW RIVER BUILD, AS 498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	22-18	22-23			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.50	13.65			
DIAMETER (INCH)	4"	2"			
DEPTH TO PRODUCT (FT)	8.93	0			
DEPTH TO WATER (FT)	11.81	7.85			
PRODUCT THICKNESS (FT)	2.88	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 844271

Initials: RL

Date: 12/12/04

Start Time: 1115

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	140
Product (gals)	2 1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1115	0:00	11.81	8.93	7.85	0						
1130	0:15	-	-	7.85	0						
1145	0:30	-	-	7.85	0						
1200	0:45	-	-	7.85	0						
1215	1:00	-	-	7.85	0						
1230	1:15	-	-	7.86	0						
1245	1:30	-	-	7.86	0						
1300	1:45	-	-	7.86	0						
1315	2:00	9.86	0	7.86	0						
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Temp (°F)	Vac Truck ("Hg)
0:00	>200,000	400	50	23
0:15	>200,000	400	52	
0:30	>200,000	400	56	
0:45	>200,000	400	57	
1:00	196,804	400	58	23
1:15	185,816	400	58	
1:30	173,180	400	59	
1:45	161,148	400	60	
2:00	151,496	400	61	22
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LESTER, NC

Location: MCAS NEW RIVER Bldg AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	ZR-20	ZR-21			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.76	13.81			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	8.83	0			
DEPTH TO WATER (FT)	13.01	5.78			
PRODUCT THICKNESS (FT)	4.18	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 844271

Initials: RL

Date: 12/21/04

Start Time: 1015

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	90
Product (gals)	2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW		DTP		DTW		DTP		DTW		DTP		DTW		DTP	
		DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1015	0:00	13.01	8.83	5.78	0												
1030	0:15	-	-	5.78	0												
1045	0:30	-	-	5.78	0												
1100	0:45	-	-	5.78	0												
1115	1:00	-	-	5.78	0												
1130	1:15	-	-	5.79	0												
1145	1:30	9.74	0	5.79	0												
	1:45																
	2:00																
	2:30																
	3:00																
	3:30																
	4:00																
	4:30																
	5:00																
	5:30																
	6:00																

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity		Temp		Vac Truck	
		(ft/sec)	(m/sec)	(°F)	(°C)	("Hg)	(RPM)
0:00	>200,000	400	-	36	-	24	600
0:15	>200,000	400	-	39	-		
0:30	>200,000	400	-	40	-		
0:45	194,196	400	-	40	-		
1:00	180,504	400	-	41	-	24	600
1:15	164,588	400	-	41	-		
1:30	150,412	400	-	41	-		
1:45							
2:00							
2:30							
3:00							
3:30							
4:00							
4:30							
5:00							
5:30							
6:00							

NOTE: DTW - Depth to Water (ft, TOC) DTP - Depth to Product (ft, TOC)

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LEBEUNE, NC

Location: NCHS NEW RIVER, BLDG AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	ZZ-18	ZZ-23			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.50	13.65			
DIAMETER (INCH)	4"	2"			
DEPTH TO PRODUCT (FT)	9.13	0			
DEPTH TO WATER (FT)	11.64	8.06			
PRODUCT THICKNESS (FT)	2.51	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 844271

Initials: TL

Date: 12/21/04

Start Time: 1215

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	110
Product (gals)	2 1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1215	0:00	11.64	9.13	8.06	0						
1230	0:15	-	-	8.06	0						
1245	0:30	-	-	8.07	0						
1300	0:45	-	-	8.07	0						
1315	1:00	-	-	8.07	0						
1330	1:15	-	-	8.07	0						
1345	1:30	10.08	0	8.07	0						
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F) (°C)	Vac Truck ("Hg) (RPM)
0:00	>200,000	400 -	40 -	24 600
0:15	>200,000	400 -	43 -	
0:30	196,520	400 -	44 -	
0:45	187,248	400 -	44 -	
1:00	174,304	400 -	45 -	24 600
1:15	162,696	400 -	46 -	
1:30	150,236	400 -	46 -	
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: METS CAMP LETEUNE, NC

Location: METS NEW RIVER, Bldg, AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	22-12	MW-06			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.96	50.21			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	5.52	0			
DEPTH TO WATER (FT)	8.07	7.63			
PRODUCT THICKNESS (FT)	2.55	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 044271

Initials: RL

Date: 12/21/04

Start Time: 1415

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	70
Product (gals)	1

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1415	0:00	8.07	5.52	7.63	0						
1430	0:15	-	-	7.62	0						
1445	0:30	-	-	7.62	0						
1500	0:45	-	-	7.61	0						
1515	1:00	-	-	7.61	0						
1530	1:15	-	-	7.60	0						
1545	1:30	6.49	0	7.60	0						
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Temp (°F)	Vac Truck ("Hg)
0:00	>200,000	420	45	24
0:15	>200,000	400	49	
0:30	>200,000	400	49	
0:45	193,260	400	50	
1:00	178,352	400	51	23
1:15	163,708	400	50	
1:30	145,908	400	50	
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LEJEUNE, NC

Location: MCA NEW RIVER BLDG AS-3905

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	ZW-1	OBG-6			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	21.48	17.39			
DIAMETER (INCH)	6"	2"			
DEPTH TO PRODUCT (FT)	5.89	0			
DEPTH TO WATER (FT)	6.11	6.52			
PRODUCT THICKNESS (FT)	0.22	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 844271

Initials: ZL

Date: 12/21/04

Start Time: 1615

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	40
Product (gals)	14

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1615	0:00	6.11	5.89	6.52	0						
1630	0:15	-	-	6.52	0						
1645	0:30	-	-	6.52	0						
1700	0:45	6.02	0	6.52	0						
	1:00										
	1:15										
	1:30										
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F) (°C)	Vac Truck ("Hg) (RPM)
0:00	191,458	400 -	42 -	23 600
0:15	180,032	400 -	45 -	
0:30	164,952	400 -	46 -	
0:45	140,660	400 -	46 -	
1:00				
1:15				
1:30				
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LESTER, NC

Location: MCAS NEW RIVER, BLDG AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-12	MW-06			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.96	50.21			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	4.92	0			
DEPTH TO WATER (FT)	6.94	7.05			
PRODUCT THICKNESS (FT)	2.02	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 844271

Initials: RL

Date: 12/29/04

Start Time: 0900

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	80
Product (gals)	1

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
0900	0:00	6.94	4.92	7.05	0						
0915	0:15	-	-	7.05	0						
0930	0:30	-	-	7.04	0						
0945	0:45	-	-	7.04	0						
1000	1:00	-	-	7.03	0						
1015	1:15	-	-	7.02	0						
1030	1:30	5.61	0	7.01	0						
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F) (°C)	Vac Truck ("Hg) (RPM)
0:00	>200,000	400 -	39 -	24 600
0:15	>200,000	400 -	43 -	
0:30	193,864	400 -	44 -	
0:45	189,228	400 -	44 -	
1:00	174,852	400 -	45 -	24 600
1:15	163,372	400 -	45 -	
1:30	149,128	400 -	45 -	
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCS CAMP LETEUNE, NC

Location: MCS NEW RIVER, Bldg, AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-20	RR-21			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.76	13.81			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	8.61	0			
DEPTH TO WATER (FT)	12.96	4.67			
PRODUCT THICKNESS (FT)	4.35	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 844271

Initials: RL

Date: 12/29/04

Start Time: 1115

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	100
Product (gals)	2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1115	0:00	12.96	8.61	4.67	0						
1130	0:15	-	-	4.67	0						
1145	0:30	-	-	4.67	0						
1200	0:45	-	-	4.67	0						
1215	1:00	-	-	4.68	0						
1230	1:15	-	-	4.68	0						
1245	1:30	-	-	4.68	0						
1300	1:45	9.85	0	4.68	0						
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Temp (°F)	Vac Truck ("Hg)
0:00	>200,000	400	44	24
0:15	>200,000	400	49	
0:30	>200,000	400	50	
0:45	>200,000	400	50	
1:00	190,860	400	50	24
1:15	178,448	400	51	
1:30	165,188	400	51	
1:45	154,556	400	52	
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MLB CAMP LESTONE, NC

Location: MOHS NEW RIVER, BUDG AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-18	RR-23			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.50	13.65			
DIAMETER (INCH)	4"	2"			
DEPTH TO PRODUCT (FT)	9.03	0			
DEPTH TO WATER (FT)	10.82	7.70			
PRODUCT THICKNESS (FT)	1.79	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 844271

Initials: TCL

Date: 12/29/04

Start Time: 1345

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	120
Product (gals)	1 1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1345	0:00	10.82	9.03	7.70	0						
1400	0:15	-	-	7.70	0						
1415	0:30	-	-	7.70	0						
1430	0:45	-	-	7.70	0						
1445	1:00	-	-	7.70	0						
1500	1:15	-	-	7.70	0						
1515	1:30	-	-	7.71	0						
1530	1:45	9.96	0	7.71	0						
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Temp (°F)	Vac Truck ("Hg)
0:00	>200,000	400	51	24
0:15	>200,000	400	57	
0:30	>200,000	400	57	
0:45	>200,000	400	58	
1:00	194,208	400	58	23
1:15	181,220	400	58	
1:30	163,824	400	57	
1:45	145,752	400	57	
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LESTUNE, NC

Location: MCAS NEW RIVER, BLDG AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-12	MW-06			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.96	50.21			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	5.26	0			
DEPTH TO WATER (FT)	7.04	7.29			
PRODUCT THICKNESS (FT)	1.78	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 844271

Initials: RL

Date: 1/7/05

Start Time: 1000

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	75
Product (gals)	1

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1000	0:00	7.04	5.26	7.29	0						
1015	0:15	-	-	7.29	0						
1030	0:30	-	-	7.26	0						
1045	0:45	-	-	7.28	0						
1100	1:00	-	-	7.27	0						
1115	1:15	-	-	7.26	0						
1130	1:30	6.49	0	7.26	0						
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F) (°C)	Vac Truck ("Hg) (RPM)
0:00	>200,000	400 -	54 -	24 600
0:15	>200,000	400 -	59 -	
0:30	>200,000	400 -	60 -	
0:45	190,000	400 -	62 -	
1:00	175,500	400 -	63 -	24 600
1:15	160,656	400 -	65 -	
1:30	145,640	400 -	66 -	
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LEBONE, NC

Location: MCAS NEW RIVER, Bldg AS-448

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-20	TR-21			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.76	13.81			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	8.55	0			
DEPTH TO WATER (FT)	13.52	5.58			
PRODUCT THICKNESS (FT)	4.97	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 844271

Initials: RL

Date: 1/7/05

Start Time: 1200

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	110
Product (gals)	2 1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1200	0:00	13.52	8.55	5.58	0						
1215	0:15	-	-	5.58	0						
1230	0:30	-	-	5.58	0						
1245	0:45	-	-	5.58	0						
1300	1:00	-	-	5.58	0						
1315	1:15	-	-	5.58	0						
1330	1:30	-	-	5.59	0						
1345	1:45	9.41	0	5.59	0						
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F) (°C)	Vac Truck ("Hg) (RPM)
0:00	>200,000	400 -	59 -	24 600
0:15	>200,000	400 -	65 -	
0:30	>200,000	400 -	67 -	
0:45	>200,000	400 -	68 -	
1:00	193,244	400 -	69 -	24 600
1:15	181,876	400 -	71 -	
1:30	165,300	400 -	71 -	
1:45	152,724	400 -	72 -	
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MACB CAMP LEBLANC, NC

Project #: 844271

Location: MACB NEW TOWER, BURG, AS-498

Initials: TL

Baseline Data - AFVR and Observation Wells

Date: 1/7/05

Start Time: 1430

WELL IDENTIFICATION	RR-18	RR-23			
AFVR WELL (YES/NO)	Yes	No			
WELL DEPTH (FT BLS)	14.50	13.65			
DIAMETER (INCH)	4"	2"			
DEPTH TO PRODUCT (FT)	8.98	0			
DEPTH TO WATER (FT)	11.59	7.87			
PRODUCT THICKNESS (FT)	2.61	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	Yes

Fluids Recovered	
Water (gals)	130
Product (gals)	2 1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1430	0:00	11.59	8.98	7.87	0						
1445	0:15	-	-	7.87	0						
1500	0:30	-	-	7.87	0						
1515	0:45	-	-	7.87	0						
1530	1:00	-	-	7.88	0						
1545	1:15	-	-	7.88	0						
1600	1:30	-	-	7.88	0						
1615	1:45	-	-	7.88	0						
1630	2:00	9.67	0	7.88	0						
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F) (°C)	Vac Truck ("Hg) (RPM)
0:00	>200,000	400 -	66 -	24 600
0:15	>200,000	400 -	73 -	
0:30	>200,000	400 -	74 -	
0:45	>200,000	400 -	75 -	
1:00	>200,000	400 -	75 -	23 600
1:15	195,416	400 -	75 -	
1:30	179,892	400 -	76 -	
1:45	163,340	400 -	75 -	
2:00	142,976	400 -	76 -	23 600
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LESTUNE, NC

Location: MCAS NEW RIVER, BLDG AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-26	RR-46			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	24.32	20.45			
DIAMETER (INCH)	6"	6"			
DEPTH TO PRODUCT (FT)	6.89	0			
DEPTH TO WATER (FT)	7.09	1.90			
PRODUCT THICKNESS (FT)	0.20	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 844271

Initials: RL

Date: 1/7/05

Start Time: 1715

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	60
Product (gals)	1/4

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1715	0:00	7.09	6.89	1.90	0						
1730	0:15	-	-	1.90	0						
1745	0:30	-	-	1.90	0						
1800	0:45	-	-	1.90	0						
1815	1:00	7.01	0	1.90	0						
	1:15										
	1:30										
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Temp (°F)	Vac Truck ("Hg)
0:00	192,924	400	41	23
0:15	184,620	400	65	
0:30	174,936	400	66	
0:45	163,956	400	65	
1:00	150,340	400	64	23
1:15				
1:30				
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LEBLANC, NC

Location: MCAS NEW RIVER, Bldg AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	2R-18	2R-23			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.50	13.65			
DIAMETER (INCH)	4"	2"			
DEPTH TO PRODUCT (FT)	9.18	0			
DEPTH TO WATER (FT)	10.90	7.81			
PRODUCT THICKNESS (FT)	1.72	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 844271

Initials: RL

Date: 1/15/05

Start Time: 0900

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	100
Product (gals)	1 1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
0900	0:00	10.90	9.18	7.81	0						
0915	0:15	-	-	7.81	0						
0930	0:30	-	-	7.81	0						
0945	0:45	-	-	7.81	0						
1000	1:00	-	-	7.81	0						
1015	1:15	-	-	7.81	0						
1030	1:30	9.79	0	7.82	0						
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F °C)	Vac Truck ("Hg RPM)
0:00	>200,000	400 -	38 -	24 600
0:15	>200,000	400 -	43 -	
0:30	>200,000	400 -	44 -	
0:45	108,472	400 -	44 -	
1:00	174,108	400 -	44 -	24 600
1:15	158,532	400 -	45 -	
1:30	140,036	400 -	45 -	
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LESTER, NC

Location: MCAS NEW RIVER, BLDG AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-20	RR-21			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.76	13.81			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	9.27	0			
DEPTH TO WATER (FT)	11.48	5.46			
PRODUCT THICKNESS (FT)	2.21	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 844271

Initials: RL

Date: 1/15/05

Start Time: 1115

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	110
Product (gals)	1 1/4

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1115	0:00	11.48	9.27	5.46	0						
1130	0:15	-	-	5.46	0						
1145	0:30	-	-	5.46	0						
1200	0:45	-	-	5.46	0						
1215	1:00	-	-	5.47	0						
1230	1:15	-	-	5.47	0						
1245	1:30	-	-	5.47	0						
1300	1:45	10.12	0	5.47	0						
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	m/sec	Temp (°F)	(°C)	Vac Truck ("Hg)	(RPM)
0:00	>200,000	400	-	43	-	24	600
0:15	>200,000	400	-	47	-		
0:30	>200,000	400	-	48	-		
0:45	>200,000	400	-	48	-		
1:00	193,060	400	-	48	-	23	600
1:15	177,136	400	-	49	-		
1:30	162,572	400	-	49	-		
1:45	149,240	400	-	49	-		
2:00							
2:30							
3:00							
3:30							
4:00							
4:30							
5:00							
5:30							
6:00							

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LEBEUNE, NC

Location: MCAS NEW RIVER, BLDG AB-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	KR-12	MW-26			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.96	50.21			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	4.79	0			
DEPTH TO WATER (FT)	5.35	7.02			
PRODUCT THICKNESS (FT)	0.56	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 844271

Initials: ZL

Date: 1/15/05

Start Time: 1345

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	70
Product (gals)	1/4

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1345	0:00	5.35	4.79	7.02	0						
1400	0:15	-	-	7.02	0						
1415	0:30	-	-	7.01	0						
1430	0:45	-	-	7.01	0						
1445	1:00	-	-	7.00	0						
1500	1:15	5.04	0	6.99	0						
	1:30										
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F °C)	Vac Truck ("Hg RPM)
0:00	>200,000	400 -	46 -	23 600
0:15	194,764	400 -	49 -	
0:30	181,980	400 -	49 -	
0:45	170,452	400 -	49 -	
1:00	159,644	400 -	48 -	23 600
1:15	146,116	400 -	48 -	
1:30				
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LETEUNE, NL

Location: MCAS NEW RIVER, BLDG AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	ZZ-20	ZZ-21			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.76	13.81			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	8.81	0			
DEPTH TO WATER (FT)	11.77	5.32			
PRODUCT THICKNESS (FT)	2.96	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 112430

Initials: ZL

Date: 1/25/05

Start Time: 0815

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	80
Product (gals)	1 1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
0815	0:00	11.77	8.81	5.32	0						
0830	0:15	-	-	5.32	0						
0845	0:30	-	-	5.32	0						
0900	0:45	-	-	5.32	0						
0915	1:00	-	-	5.32	0						
0930	1:15	9.73	0	5.32	0						
	1:30										
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F) (°C)	Vac Truck ("Hg) (RPM)
0:00	>200,000	400 -	36 -	24 600
0:15	>200,000	400 -	40 -	
0:30	189,260	400 -	41 -	
0:45	179,044	400 -	42 -	
1:00	164,596	400 -	42 -	24 600
1:15	147,832	400 -	43 -	
1:30				
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LEJEUNE, NC

Location: MCRS NEW RIVER, BLDG AS-498

Project #: 112430

Initials: ZL

Date: 1/25/05

Start Time: 1015

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	ZR-18	ZR-23			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.50	13.65			
DIAMETER (INCH)	4"	2"			
DEPTH TO PRODUCT (FT)	8.90	0			
DEPTH TO WATER (FT)	10.51	7.54			
PRODUCT THICKNESS (FT)	1.61	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	Yes

Fluids Recovered	
Water (gals)	100
Product (gals)	1 1/4

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1015	0:00	10.51	8.90	7.54	0						
1030	0:15	-	-	7.54	0						
1045	0:30	-	-	7.54	0						
1100	0:45	-	-	7.54	0						
1115	1:00	-	-	7.54	0						
1130	1:15	-	-	7.54	0						
1145	1:30	9.46	0	7.54	0						
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Temp (°F)	Vac Truck ("Hg)
0:00	>200,000	400	40	24
0:15	>200,000	400	45	
0:30	>200,000	400	46	
0:45	194,132	400	46	
1:00	180,182	400	47	24
1:15	163,664	400	48	
1:30	148,772	400	48	
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

Aggressive Fluid Vapor /ery (AFVR) Data Sheet

Facility: MCB CAMP LEJEUNE, NC

Location: MCAS NEW RIVER BLDG AS-3405

Project #: 112430

Initials: JM

Date: 2/4/05

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	<u>2W-1</u>	<u>OBG-6</u>			
AFVR WELL (YES/NO)	<u>YES</u>	<u>NO</u>			
WELL DEPTH (FT BLS)	<u>21.48</u>	<u>17.39</u>			
DIAMETER (INCH)	<u>6"</u>	<u>2"</u>			
DEPTH TO PRODUCT (FT)	<u>5.58</u>	<u>0</u>			
DEPTH TO WATER (FT)	<u>5.72</u>	<u>5.28</u>			
PRODUCT THICKNESS (FT)	<u>0.14</u>	<u>0</u>			
SCREEN INTERV. (FT BLS)	<u>N/A</u>	<u>N/A</u>			

Start Time: 1115

AFVR Stack and Vacuum Truck Data

Stack Diameter	<u>6 inches</u>
FID Calibration Gas	<u>Methane</u>
Calibrated yes/no	<u>YES</u>

Fluids Recovered	
Water (gals)	<u>30</u>
Product (gals)	<u>1/8</u>

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
<u>1115</u>	0:00	<u>5.72</u>	<u>5.58</u>	<u>5.28</u>	<u>0</u>						
<u>1130</u>	0:15	<u>-</u>	<u>-</u>	<u>5.28</u>	<u>0</u>						
<u>1145</u>	0:30	<u>-</u>	<u>-</u>	<u>5.28</u>	<u>0</u>						
<u>1200</u>	0:45	<u>5.65</u>	<u>0</u>	<u>5.28</u>	<u>0</u>						
	1:00										
	1:15										
	1:30										
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F) (°C)	Vac Truck ("Hg) (RPM)
0:00	<u>187,168</u>	<u>400 -</u>	<u>40 -</u>	<u>24 600</u>
0:15	<u>169,264</u>	<u>400 -</u>	<u>46 -</u>	
0:30	<u>153,720</u>	<u>400 -</u>	<u>47 -</u>	
0:45	<u>135,692</u>	<u>700 -</u>	<u>47 -</u>	
1:00				
1:15				
1:30				
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LESTONE, NC

Location: MCAS NEW RIVER, BLDG AS-444

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	XR-20	XR-21			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.76	13.81			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	8.79	0			
DEPTH TO WATER (FT)	10.82	4.84			
PRODUCT THICKNESS (FT)	2.03	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 112430

Initials: JM

Date: 2/5/05

Start Time: 0800

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	100
Product (gals)	1

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
0800	0:00	10.82	8.79	4.84	0						
0815	0:15	-	-	4.84	0						
0830	0:30	-	-	4.84	0						
0845	0:45	-	-	4.84	0						
0900	1:00	-	-	4.84	0						
0915	1:15	-	-	4.85	0						
0930	1:30	-	-	4.85	0						
0945	1:45	9.48	0	4.85	0						
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F °C)	Vac Truck ("Hg RPM)
0:00	>200,000	400 -	45 -	24 600
0:15	>200,000	400 -	50 -	
0:30	>200,000	400 -	51 -	
0:45	>200,000	400 -	51 -	
1:00	193,068	400 -	52 -	24 600
1:15	179,324	400 -	52 -	
1:30	162,860	400 -	53 -	
1:45	146,232	400 -	53 -	
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

Aggressive Fluid Vapor very (AFVR) Data Sheet

Facility: MCB CAMP LESEUNE, NC

Project #: 112430

Location: MCAS NEW RIVER, BLDG AS-498

Initials: JM

Baseline Data - AFVR and Observation Wells

Date: 2/5/05

Start Time: 1015

WELL IDENTIFICATION	TR-18	TR-23			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.50	13.65			
DIAMETER (INCH)	4"	2"			
DEPTH TO PRODUCT (FT)	8.73	0			
DEPTH TO WATER (FT)	10.43	7.31			
PRODUCT THICKNESS (FT)	1.70	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	90
Product (gals)	1 1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1015	0:00	10.43	8.73	7.31	0						
1030	0:15	-	-	7.31	0						
1045	0:30	-	-	7.31	0						
1100	0:45	-	-	7.31	0						
1115	1:00	-	-	7.31	0						
1130	1:15	-	-	7.32	0						
1145	1:30	9.49	0	7.32	0						
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	m/sec	Temp (°F)	(°C)	Vac Truck ("Hg)	(RPM)
0:00	>200,000	400	-	49	-	24	600
0:15	>200,000	400	-	54	-		
0:30	>200,000	400	-	55	-		
0:45	191,992	400	-	55	-		
1:00	180,420	400	-	56	-	24	600
1:15	164,796	400	-	56	-		
1:30	153,092	400	-	57	-		
1:45							
2:00							
2:30							
3:00							
3:30							
4:00							
4:30							
5:00							
5:30							
6:00							

Aggressive Fluid Vapor

AFVR Data Sheet

Facility: MCB CAMP LEJEUNE, NC

Location: MLAS NEW RIVER, BLDG AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	7R-12	MW-06			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.96	50.21			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	4.68	0			
DEPTH TO WATER (FT)	6.49	6.68			
PRODUCT THICKNESS (FT)	1.81	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 112430

Initials: JM

Date: 2/5/05

Start Time: 1215

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	80
Product (gals)	1

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1215	0:00	6.49	4.68	6.68	0						
1230	0:15	-	-	6.68	0						
1245	0:30	-	-	6.67	0						
1300	0:45	-	-	6.67	0						
1315	1:00	-	-	6.66	0						
1330	1:15	-	-	6.65	0						
1345	1:30	5.20	0	6.65	0						
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Temp (°F)	Vac Truck ("Hg)
0:00	>200,000	400	52	23
0:15	>200,000	400	58	
0:30	>200,000	400	59	
0:45	193,640	400	59	
1:00	178,552	400	60	23
1:15	163,580	400	61	
1:30	144,828	400	61	
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor

AFVR Data Sheet

Facility: MCB CAMP LEJEUNE, NC

Location: MCCAS NEW RIVER, BLDG AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-16	RR-46			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	19.75	20.45			
DIAMETER (INCH)	6"	6"			
DEPTH TO PRODUCT (FT)	6.68	0			
DEPTH TO WATER (FT)	6.88	2.58			
PRODUCT THICKNESS (FT)	0.20	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 112430

Initials: JM

Date: 2/5/05

Start Time: 1430

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	40
Product (gals)	14

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1430	0:00	6.88	6.68	2.58	0						
1445	0:15	-	-	2.58	0						
1500	0:30	-	-	2.58	0						
1515	0:45	6.79	0	2.58	0						
	1:00										
	1:15										
	1:30										
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Temp (°F)	Vac Truck ("Hg)
0:00	186,248	400	55	23
0:15	171,976	400	62	
0:30	159,452	400	63	
0:45	141,864	400	63	
1:00				
1:15				
1:30				
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LESTUNE, NC

Location: MCAS NEW RIVER, BLDG AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-20	RR-21			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.76	13.81			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	8.93	0			
DEPTH TO WATER (FT)	10.44	5.18			
PRODUCT THICKNESS (FT)	1.51	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 112430

Initials: RL

Date: 2/12/05

Start Time: 0900

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	100
Product (gals)	3/4

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
0900	0:00	10.44	8.93	5.18	0						
0915	0:15	-	-	5.18	0						
0930	0:30	-	-	5.18	0						
0945	0:45	-	-	5.19	0						
1000	1:00	-	-	5.19	0						
1015	1:15	-	-	5.19	0						
1030	1:30	-	-	5.19	0						
1045	1:45	9.68	0	5.19	0						
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F °C)	Vac Truck ("Hg) (RPM)
0:00	>200,000	400 -	48 -	24 600
0:15	>200,000	400 -	54 -	
0:30	>200,000	400 -	55 -	
0:45	>200,000	400 -	56 -	
1:00	192,480	400 -	56 -	24 600
1:15	179,644	400 -	57 -	
1:30	159,956	400 -	57 -	
1:45	137,952	400 -	57 -	
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LESEUNE, NC

Location: MCAS NEW RIVER, BLDG AS-448

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-18	RR-23			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.50	13.65			
DIAMETER (INCH)	4"	2"			
DEPTH TO PRODUCT (FT)	8.74	0			
DEPTH TO WATER (FT)	10.36	7.39			
PRODUCT THICKNESS (FT)	1.62	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 112430

Initials: RL

Date: 2/12/05

Start Time: 1115

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	110
Product (gals)	1 1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1115	0:00	10.36	8.74	7.39	0						
1130	0:15	-	-	7.39	0						
1145	0:30	-	-	7.39	0						
1200	0:45	-	-	7.39	0						
1215	1:00	-	-	7.39	0						
1230	1:15	-	-	7.40	0						
1245	1:30	-	-	7.40	0						
1300	1:45	9.47	0	7.40	0						
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	m/sec	Temp (°F)	(°C)	Vac Truck ("Hg)	(RPM)
0:00	>200,000	400	-	52	-	24	600
0:15	>200,000	400	-	57	-		
0:30	>200,000	400	-	59	-		
0:45	196,672	400	-	60	-		
1:00	185,036	400	-	60	-	24	600
1:15	174,952	400	-	61	-		
1:30	141,376	400	-	62	-		
1:45	152,904	400	-	62	-		
2:00							
2:30							
3:00							
3:30							
4:00							
4:30							
5:00							
5:30							
6:00							

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LEBEUNE, NC

Location: MCAS NEW RIVER, BLDG AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	ZR-12	NW-06			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.96	50.21			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	4.64	0			
DEPTH TO WATER (FT)	7.48	6.89			
PRODUCT THICKNESS (FT)	2.84	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 112430

Initials: TL

Date: 2/12/05

Start Time: 1330

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	80
Product (gals)	1 1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1330	0:00	7.48	4.64	6.89	0						
1345	0:15	-	-	6.89	0						
1400	0:30	-	-	6.86	0						
1415	0:45	-	-	6.88	0						
1430	1:00	-	-	6.87	0						
1445	1:15	-	-	6.87	0						
1500	1:30	5.88	0	6.86	0						
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Temp (°F)	Temp (°C)	Vac Truck ("Hg)	Vac Truck (RPM)
0:00	>200,000	400	55	-	23	600
0:15	>200,000	400	62	-		
0:30	>200,000	400	62	-		
0:45	191,588	400	63	-		
1:00	177,100	400	64	-	23	600
1:15	143,624	400	64	-		
1:30	150,136	400	64	-		
1:45						
2:00						
2:30						
3:00						
3:30						
4:00						
4:30						
5:00						
5:30						
6:00						

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LESTER, NC

Location: MCAS NEW RIVER, BLDG AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	2R-26	2R-46			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	29.32	20.45			
DIAMETER (INCH)	6"	6"			
DEPTH TO PRODUCT (FT)	5.71	0			
DEPTH TO WATER (FT)	5.88	3.17			
PRODUCT THICKNESS (FT)	0.17	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 112430

Initials: ZL

Date: 2/16/05

Start Time: 1330

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	35
Product (gals)	1/4

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1330	0:00	5.88	5.71	3.17	0						
1345	0:15	-	-	3.17	0						
1400	0:30	-	-	3.17	0						
1415	0:45	5.82	0	3.17	0						
	1:00										
	1:15										
	1:30										
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F °C)	Vac Truck ("Hg RPM)
0:00	187,584	400 -	64 -	24 600
0:15	168,716	400 -	69 -	
0:30	157,216	400 -	69 -	
0:45	135,688	400 -	70 -	
1:00				
1:15				
1:30				
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MOB CAMP LETRONE, NC

Location: MCA5 NEW RIVER, BLDG AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-56	RR-46			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	23.12	20.45			
DIAMETER (INCH)	6"	6"			
DEPTH TO PRODUCT (FT)	7.60	0			
DEPTH TO WATER (FT)	7.93	3.17			
PRODUCT THICKNESS (FT)	0.23	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 112430

Initials: RL

Date: 2/16/05

Start Time: 1200

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	50
Product (gals)	1/4

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW		DTP		DTW		DTP		DTW		DTP	
		DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1200	0:00	7.93	7.60	3.17	0								
1215	0:15	-	-	3.17	0								
1230	0:30	-	-	3.17	0								
1245	0:45	-	-	3.17	0								
1300	1:00	7.79	0	3.17	0								
	1:15												
	1:30												
	1:45												
	2:00												
	2:30												
	3:00												
	3:30												
	4:00												
	4:30												
	5:00												
	5:30												
	6:00												

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity		Temp		Vac Truck	
		(ft/sec)	(m/sec)	(°F)	(°C)	("Hg)	(RPM)
0:00	193,044	400	-	60	-	24	600
0:15	183,712	400	-	65	-		
0:30	177,440	400	-	66	-		
0:45	161,636	400	-	66	-		
1:00	149,420	400	-	67	-	24	600
1:15							
1:30							
1:45							
2:00							
2:30							
3:00							
3:30							
4:00							
4:30							
5:00							
5:30							
6:00							

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LEJEUNE, NC

Project #: 112403

Location: MCAS NEW RIVER, BLDG AS-498

Initials: RL

Baseline Data - AFVR and Observation Wells

Date: 2/18/05

Start Time: 1300

WELL IDENTIFICATION	<u>ZZ-12</u>	<u>AW-06</u>			
AFVR WELL (YES/NO)	<u>YES</u>	<u>NO</u>			
WELL DEPTH (FT BLS)	<u>14.96</u>	<u>50.21</u>			
DIAMETER (INCH)	<u>2"</u>	<u>2"</u>			
DEPTH TO PRODUCT (FT)	<u>4.87</u>	<u>0</u>			
DEPTH TO WATER (FT)	<u>7.75</u>	<u>7.03</u>			
PRODUCT THICKNESS (FT)	<u>2.86</u>	<u>0</u>			
SCREEN INTERV. (FT BLS)	<u>N/A</u>	<u>N/A</u>			

AFVR Stack and Vacuum Truck Data

Stack Diameter	<u>6 inches</u>
FID Calibration Gas	<u>Methane</u>
Calibrated yes/no	<u>YES</u>

Fluids Recovered	
Water (gals)	<u>75</u>
Product (gals)	<u>1</u>

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
<u>1300</u>	0:00	<u>7.75</u>	<u>4.87</u>	<u>7.03</u>	<u>0</u>						
<u>1315</u>	0:15	<u>-</u>	<u>-</u>	<u>7.03</u>	<u>0</u>						
<u>1330</u>	0:30	<u>-</u>	<u>-</u>	<u>7.02</u>	<u>0</u>						
<u>1345</u>	0:45	<u>-</u>	<u>-</u>	<u>7.01</u>	<u>0</u>						
<u>1400</u>	1:00	<u>-</u>	<u>-</u>	<u>7.01</u>	<u>0</u>						
<u>1415</u>	1:15	<u>-</u>	<u>-</u>	<u>7.00</u>	<u>0</u>						
<u>1430</u>	1:30	<u>5.61</u>	<u>0</u>	<u>7.00</u>	<u>0</u>						
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Temp (°F)	Vac Truck ("Hg)
0:00	<u>>200,000</u>	<u>400</u>	<u>44</u>	<u>24</u>
0:15	<u>>200,000</u>	<u>400</u>	<u>48</u>	<u>600</u>
0:30	<u>>200,000</u>	<u>400</u>	<u>49</u>	
0:45	<u>190,444</u>	<u>400</u>	<u>49</u>	
1:00	<u>177,024</u>	<u>400</u>	<u>48</u>	<u>24</u>
1:15	<u>158,856</u>	<u>400</u>	<u>49</u>	<u>600</u>
1:30	<u>139,236</u>	<u>400</u>	<u>48</u>	
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Entry (AFVR) Data Sheet

Facility: MCB CAMP LESEUNE, NC

Location: MCAS NEW RIVER, Bldg AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-20	RR-21			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.76	13.81			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	9.18	0			
DEPTH TO WATER (FT)	10.23	5.46			
PRODUCT THICKNESS (FT)	1.05	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 112403

Initials: RL

Date: 2/18/05

Start Time: 1500

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	80
Product (gals)	1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1500	0:00	10.23	9.18	5.46	0						
1515	0:15	-	-	5.46	0						
1530	0:30	-	-	5.46	0						
1545	0:45	-	-	5.46	0						
1600	1:00	-	-	5.46	0						
1615	1:15	-	-	5.47	0						
1630	1:30	9.55	0	5.47	0						
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F) (°C)	Vac Truck ("Hg) (RPM)
0:00	>200,000	400 -	42 -	24 600
0:15	>200,000	400 -	46 -	
0:30	>200,000	400 -	46 -	
0:45	191,548	400 -	46 -	
1:00	181,452	400 -	45 -	23 600
1:15	164,780	400 -	45 -	
1:30	146,128	400 -	45 -	
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor R 16 AFVR) Data Sheet

Facility: MCTB CAMP LEJEUNE, NC

Location: MCAS NEW RIVER, BLDG AS-498

Project #: 112430

Initials: RL

Date: 2/19/05

Start Time: 0900

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-18	RR-23			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.50	13.65			
DIAMETER (INCH)	4"	2"			
DEPTH TO PRODUCT (FT)	8.89	0			
DEPTH TO WATER (FT)	10.42	7.46			
PRODUCT THICKNESS (FT)	1.53	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	90
Product (gals)	1 1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
0900	0:00	10.42	8.89	7.46	0						
0915	0:15	-	-	7.46	0						
0930	0:30	-	-	7.46	0						
0945	0:45	-	-	7.46	0						
1000	1:00	-	-	7.46	0						
1015	1:15	-	-	7.46	0						
1030	1:30	9.38	0	7.47	0						
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F °C)	Vac Truck ("Hg RPM)
0:00	>200,000	400 -	40 -	24 600
0:15	>200,000	400 -	44 -	
0:30	>200,000	400 -	44 -	
0:45	186,990	400 -	45 -	
1:00	175,468	400 -	46 -	24 600
1:15	159,408	400 -	46 -	
1:30	139,884	400 -	46 -	
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LEJEUNE, NC

Project #: 112430

Location: MCAS NEW RIVER, Bldg AS-498

Initials: RL

Baseline Data - AFVR and Observation Wells

Date: 2/25/05

Start Time: 1145

WELL IDENTIFICATION	22-12	MW-06			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.96	50.21			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	4.73	0			
DEPTH TO WATER (FT)	6.31	6.95			
PRODUCT THICKNESS (FT)	1.58	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	80
Product (gals)	3/4

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1145	0:00	6.31	4.73	6.95	0						
1200	0:15	-	-	6.95	0						
1215	0:30	-	-	6.94	0						
1230	0:45	-	-	6.94	0						
1245	1:00	-	-	6.93	0						
1300	1:15	-	-	6.92	0						
1315	1:30	5.08	0	4.91	0						
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Temp (°F)	Vac Truck ("Hg)
0:00	>200,000	400	45	23
0:15	>200,000	400	49	
0:30	>200,000	400	50	
0:45	188,976	400	50	
1:00	176,508	400	50	23
1:15	159,660	400	51	
1:30	143,324	400	51	
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LESTUNE, NC

Location: MCAS NEW RIVER, BLDG AS-490

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-20	RR-21			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.76	13.91			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	8.91	0			
DEPTH TO WATER (FT)	10.44	5.29			
PRODUCT THICKNESS (FT)	1.53	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 112430

Initials: RL

Date: 2/25/05

Start Time: 1345

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	85
Product (gals)	3/4

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1345	0:00	10.44	8.91	5.29	0						
1400	0:15	-	-	5.29	0						
1415	0:30	-	-	5.29	0						
1430	0:45	-	-	5.29	0						
1445	1:00	-	-	5.29	0						
1500	1:15	-	-	5.29	0						
1515	1:30	9.34	0	5.30	0						
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Temp (°F)	Vac Truck ("Hg)
0:00	>200,000	400	47	23
0:15	>200,000	400	52	
0:30	194,508	400	52	
0:45	184,352	400	53	
1:00	170,224	400	52	22
1:15	152,796	400	53	
1:30	134,080	400	52	
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LEBLANC, NC

Location: MCAS NEW RIVER, BLDG AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RL-18	RL-23			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.50	13.65			
DIAMETER (INCH)	4"	2"			
DEPTH TO PRODUCT (FT)	8.64	0			
DEPTH TO WATER (FT)	10.87	7.38			
PRODUCT THICKNESS (FT)	2.23	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 112430

Initials: RL

Date: 2/26/05

Start Time: 0900

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	90
Product (gals)	2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
0900	0:00	10.87	8.64	7.38	0						
0915	0:15	-	-	7.38	0						
0930	0:30	-	-	7.38	0						
0945	0:45	-	-	7.38	0						
1000	1:00	-	-	7.39	0						
1015	1:15	-	-	7.39	0						
1030	1:30	9.41	0	7.39	0						
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Temp (°F)	Vac Truck ("Hg)
0:00	>200,000	400	39	24
0:15	>200,000	400	45	
0:30	>200,000	400	46	
0:45	187,772	400	47	
1:00	172,476	400	47	24
1:15	154,760	400	49	
1:30	134,004	400	49	
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LESTUNE, NC

Project #: 112430

Location: MCAS NEW RIVER, BLDG AS-499

Initials: TLL

Baseline Data - AFVR and Observation Wells

Date: 2/26/05

Start Time: 1100

WELL IDENTIFICATION	RR-16	RR-46			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	19.75	20.45			
DIAMETER (INCH)	6"	6"			
DEPTH TO PRODUCT (FT)	6.61	0			
DEPTH TO WATER (FT)	6.75	2.21			
PRODUCT THICKNESS (FT)	0.14	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	40
Product (gals)	1/4

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1100	0:00	6.75	6.61	2.21	0						
1115	0:15	-	-	2.21	0						
1130	0:30	-	-	2.21	0						
1145	0:45	6.69	0	2.21	0						
	1:00										
	1:15										
	1:30										
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F) (°C)	Vac Truck ("Hg) (RPM)
0:00	184,816	400 -	46 -	24 600
0:15	170,348	400 -	53 -	
0:30	152,356	400 -	54 -	
0:45	135,192	400 -	53 -	
1:00				
1:15				
1:30				
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LEJEUNE, NC

Location: MCAS NEW RIVER, BLDG AS-496

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RT-12	MW-06			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.96	50.21			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	4.59	0			
DEPTH TO WATER (FT)	5.24	6.61			
PRODUCT THICKNESS (FT)	0.65	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 112430

Initials: ZL

Date: 3/9/05

Start Time: 1045

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	60
Product (gals)	74

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1045	0:00	5.24	4.59	6.61	0						
1100	0:15	-	-	6.61	0						
1115	0:30	-	-	6.60	0						
1130	0:45	-	-	6.60	0						
1145	1:00	-	-	6.59	0						
1200	1:15	4.87	0	6.59	0						
	1:30										
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Temp (°F)	Vac Truck ("Hg)
0:00	>200,000	400	40	23
0:15	>200,000	400	44	
0:30	187,332	400	45	
0:45	174,068	400	45	
1:00	157,520	400	45	23
1:15	138,532	400	46	
1:30				
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCTB CAMP LEJEUNE, NC

Location: MICAS NEW RIVER, BLDG AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-20	RR-21			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.76	13.81			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	8.32	0			
DEPTH TO WATER (FT)	9.69	5.46			
PRODUCT THICKNESS (FT)	1.37	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 112430

Initials: KL

Date: 3/9/05

Start Time: 1230

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	75
Product (gals)	1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1230	0:00	9.69	8.37	5.46	0						
1245	0:15	-	-	5.46	0						
1300	0:30	-	-	5.46	0						
1315	0:45	-	-	5.46	0						
1330	1:00	-	-	5.47	0						
1345	1:15	-	-	5.47	0						
1400	1:30	8.85	0	5.47	0						
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	m/sec	Temp (°F)	(°C)	Vac Truck ("Hg)	(RPM)
0:00	>200,000	400	-	43	-	23	600
0:15	>200,000	400	-	48	-		
0:30	>200,000	400	-	49	-		
0:45	190,304	400	-	49	-		
1:00	177,072	400	-	50	-	22	600
1:15	161,980	400	-	49	-		
1:30	150,948	400	-	49	-		
1:45							
2:00							
2:30							
3:00							
3:30							
4:00							
4:30							
5:00							
5:30							
6:00							

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LEJEUNE, NC

Project #: 112430

Location: MCAS NEW RIVER, BLDG AS-498

Initials: RL

Baseline Data - AFVR and Observation Wells

Date: 3/9/05

Start Time: 1430

WELL IDENTIFICATION	RR-18	RR-23			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.50	13.65			
DIAMETER (INCH)	4"	2"			
DEPTH TO PRODUCT (FT)	8.37	0			
DEPTH TO WATER (FT)	10.45	7.08			
PRODUCT THICKNESS (FT)	2.08	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	110
Product (gals)	2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1430	0:00	10.45	8.37	7.08	0						
1445	0:15	-	-	7.08	0						
1500	0:30	-	-	7.08	0						
1515	0:45	-	-	7.09	0						
1530	1:00	-	-	7.09	0						
1545	1:15	-	-	7.09	0						
1600	1:30	-	-	7.09	0						
1615	1:45	8.92	0	7.09	0						
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F) (°C)	Vac Truck ("Hg) (RPM)
0:00	>200,000	400 -	47 -	22 600
0:15	>200,000	400 -	52 -	
0:30	>200,000	400 -	52 -	
0:45	197,368	400 -	53 -	
1:00	186,352	400 -	53 -	22 600
1:15	174,436	400 -	54 -	
1:30	162,896	400 -	53 -	
1:45	147,376	400 -	51 -	
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Entry (AFVR) Data Sheet

Facility: MCB CAMP LEJEUNE, NC

Location: MCAS NEW RIVER, BLDG AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-12	MW-06			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.96	50.21			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	4.34	0			
DEPTH TO WATER (FT)	7.03	6.79			
PRODUCT THICKNESS (FT)	2.69	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 112430

Initials: TL

Date: 3/16/05

Start Time: 0830

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	80
Product (gals)	1 1/4

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
0830	0:00	7.03	4.34	6.79	0						
0845	0:15	-	-	6.79	0						
0900	0:30	-	-	6.78	0						
0915	0:45	-	-	6.77	0						
0930	1:00	-	-	6.77	0						
0945	1:15	-	-	6.76	0						
1000	1:30	5.11	0	6.75	0						
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F) (°C)	Vac Truck ("Hg) (RPM)
0:00	> 200,000	400 -	38 -	24 600
0:15	> 200,000	400 -	42 -	
0:30	> 200,000	400 -	43 -	
0:45	194,252	400 -	43 -	
1:00	178,440	400 -	44 -	24 600
1:15	161,740	400 -	44 -	
1:30	143,236	400 -	45 -	
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Inventory (AFVR) Data Sheet

Facility: MLB CAMP LEBLANC, NC

Location: MCAS NEW RIVER, BLDG AS-448

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	ZR-18	ZR-23			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.50	13.65			
DIAMETER (INCH)	4"	2"			
DEPTH TO PRODUCT (FT)	8.38	0			
DEPTH TO WATER (FT)	10.92	7.19			
PRODUCT THICKNESS (FT)	2.54	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 112430

Initials: TL

Date: 3/16/05

Start Time: 1030

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	95
Product (gals)	2 1/4

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1030	0:00	10.92	8.38	7.19	0						
1045	0:15	-	-	7.19	0						
1100	0:30	-	-	7.19	0						
1115	0:45	-	-	7.20	0						
1130	1:00	-	-	7.20	0						
1145	1:15	-	-	7.20	0						
1200	1:30	-	-	7.20	0						
1215	1:45	9.29	0	7.20	0						
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec m/sec)	Temp (°F) (°C)	Vac Truck ("Hg) (RPM)
0:00	>200,000	400 -	41 -	24 600
0:15	>200,000	400 -	46 -	
0:30	>200,000	400 -	46 -	
0:45	>200,000	400 -	47 -	
1:00	191,264	400 -	47 -	23 600
1:15	175,608	400 -	46 -	
1:30	157,828	400 -	47 -	
1:45	136,028	400 -	47 -	
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor Inventory (AFVR) Data Sheet

Facility: MLB CAMP LEECUNE, NC

Location: MLAS NEW RIVER, BLDG AS-1998

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RL-20	RL-21			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.76	13.81			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	8.42	0			
DEPTH TO WATER (FT)	10.67	4.78			
PRODUCT THICKNESS (FT)	2.25	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 112430

Initials: RL

Date: 3/16/05

Start Time: 1245

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	75
Product (gals)	1

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1245	0:00	10.67	8.42	4.78	0						
1300	0:15	-	-	4.78	0						
1315	0:30	-	-	4.78	0						
1330	0:45	-	-	4.78	0						
1345	1:00	-	-	4.79	0						
1400	1:15	-	-	4.79	0						
1415	1:30	8.97	0	4.79	0						
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Temp (°F)	Vac Truck ("Hg)
0:00	>200,000	400	43	23
0:15	>200,000	400	48	
0:30	>200,000	400	49	
0:45	192,576	400	49	
1:00	180,132	400	50	23
1:15	164,220	400	50	
1:30	154,100	400	49	
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

Very (AFVR) Data Sheet

Location: MLAS NEW RIVER, BLDG AS-490

Project #: 112430

Initials: *TL*

Date: 3/16/05

Start Time: 1445

AFVR Stack and Vacuum Truck Data

Fluids Recovered	
Water (gals)	50
Product (gals)	1/4

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity		Temp		Vac Truck	
		(ft/sec)	m/sec	(°F)	(°C)	("Hg)	(RPM)
0:00	195,736	400	-	42	-	22	600
0:15	185,644	400	-	46	-		
0:30	171,812	400	-	46	-		
0:45	157,876	400	-	46	-		
1:00	136,860	400	-	45	-	22	600
1:15							
1:30							
1:45							
2:00							
2:30							
3:00							
3:30							
4:00							
4:30							
5:00							
5:30							
6:00							

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

Aggressive Fluid Vapor Entry (AFVR) Data Sheet

Facility: MCB CAMP LEJEUNE, NC

Location: MILAS NEW RIVER, BLDG 45-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	ER-12	NW-06			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.96	50.21			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	4.57	0			
DEPTH TO WATER (FT)	5.38	4.31			
PRODUCT THICKNESS (FT)	0.61	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 112430

Initials: RL

Date: 3/23/05

Start Time: 0745

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	80
Product (gals)	1/4

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
0745	0:00	5.38	4.57	4.31	0						
0800	0:15	-	-	4.31	0						
0815	0:30	-	-	4.30	0						
0830	0:45	-	-	4.29	0						
0845	1:00	-	-	4.29	0						
0900	1:15	-	-	4.28	0						
0915	1:30	4.96	0	4.28	0						
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Temp (°F)	Vac Truck ("Hg)
0:00	>200,000	700	62	24
0:15	>200,000	400	68	
0:30	>200,000	400	69	
0:45	188,468	400	70	
1:00	173,808	400	71	24
1:15	157,480	400	71	
1:30	139,220	400	72	
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MLB CAMP LEEVINE, NC

Location: MLAB NEW RIVER, BLDG AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	TR-18	TR-23			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.50	13.65			
DIAMETER (INCH)	4"	2"			
DEPTH TO PRODUCT (FT)	8.11	0			
DEPTH TO WATER (FT)	9.78	6.76			
PRODUCT THICKNESS (FT)	1.67	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 112430

Initials: RL

Date: 3/23/05

Start Time: 0945

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	120
Product (gals)	1 1/2

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
0945	0:00	9.78	8.11	6.76	0						
1000	0:15	-	-	6.76	0						
1015	0:30	-	-	6.76	0						
1030	0:45	-	-	6.76	0						
1045	1:00	-	-	6.77	0						
1100	1:15	-	-	6.77	0						
1115	1:30	-	-	6.77	0						
1130	1:45	-	-	6.77	0						
1145	2:00	8.69	0	6.78	0						
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Temp (°F)	Vac Truck ("Hg)
0:00	>200,000	400	66	24
0:15	>200,000	400	73	
0:30	>200,000	400	73	
0:45	>200,000	400	74	
1:00	>200,000	400	74	24
1:15	192,576	400	74	
1:30	178,524	400	75	
1:45	161,468	400	75	
2:00	142,836	400	75	23
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

Aggressive Fluid Vapor Recovery (AFVR) Data Sheet

Facility: MCB CAMP LEJEUNE, NC

Location: MCAS NEW RIVER, TSLDG AS-498

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	RR-20	RR-21			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	14.76	13.81			
DIAMETER (INCH)	2"	2"			
DEPTH TO PRODUCT (FT)	7.22	0			
DEPTH TO WATER (FT)	9.41	3.89			
PRODUCT THICKNESS (FT)	2.19	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 112430

Initials: RL

Date: 3/23/05

Start Time: 1215

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	70
Product (gals)	1

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1215	0:00	9.41	7.22	3.89	0						
1230	0:15	-	-	3.89	0						
1245	0:30	-	-	3.89	0						
1300	0:45	-	-	3.89	0						
1315	1:00	-	-	3.89	0						
1330	1:15	-	-	3.90	0						
1345	1:30	7.81	0	3.90	0						
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	Temp (°F)	Vac Truck ("Hg)
0:00	>200,000	400	68	23
0:15	>200,000	400	73	
0:30	>200,000	400	74	
0:45	190,392	400	74	
1:00	174,948	400	74	23
1:15	154,540	400	75	
1:30	132,032	400	74	
1:45				
2:00				
2:30				
3:00				
3:30				
4:00				
4:30				
5:00				
5:30				
6:00				

Aggressive Fluid Vapor

Inventory (AFVR) Data Sheet

Facility: MCS CAMP LEEVINE, NC

Location: MCA5 NEW RIVER, Bldg AS-3905

Baseline Data - AFVR and Observation Wells

WELL IDENTIFICATION	TW-1	OBG-6			
AFVR WELL (YES/NO)	YES	NO			
WELL DEPTH (FT BLS)	21.48	17.39			
DIAMETER (INCH)	6"	2"			
DEPTH TO PRODUCT (FT)	5.11	0			
DEPTH TO WATER (FT)	5.21	7.82			
PRODUCT THICKNESS (FT)	0.10	0			
SCREEN INTERV. (FT BLS)	N/A	N/A			

Project #: 112430

Initials: RL

Date: 3/23/05

Start Time: 1430

AFVR Stack and Vacuum Truck Data

Stack Diameter	6 inches
FID Calibration Gas	Methane
Calibrated yes/no	YES

Fluids Recovered	
Water (gals)	20
Product (gals)	10

Water level Measurements - AFVR and Observation Wells (from TOC)

Actual Time	Elapsed Time	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP	DTW	DTP
1430	0:00	5.21	5.11	7.82	0						
1445	0:15	-	-	7.82	0						
1500	0:30	5.14	0	7.82	0						
	0:45										
	1:00										
	1:15										
	1:30										
	1:45										
	2:00										
	2:30										
	3:00										
	3:30										
	4:00										
	4:30										
	5:00										
	5:30										
	6:00										

NOTE: DTW - Depth to Water (ft, TOC) :: DTP - Depth to Product (ft, TOC)

AFVR Stack and Vacuum Truck Measurements

Elapsed Time	FID (ppm)	Velocity (ft/sec)	m/sec	Temp (°F)	(°C)	Vac Truck ("Hg)	(RPM)
0:00	178,064	400	-	67	-	22	600
0:15	157,368	400	-	71	-		
0:30	135,496	400	-	72	-		
0:45							
1:00							
1:15							
1:30							
1:45							
2:00							
2:30							
3:00							
3:30							
4:00							
4:30							
5:00							
5:30							
6:00							