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Alameda County

Environmental Health

September 30, 2011

Mr. Paresh Khatri

Alameda County Environmental Health Department 1131 Harbor Bay Parkway, Suite 250

Alameda, CA 94502

SUBJECT: SEMI-ANNUAL GROUNDWATER MONITORING AND SAMPLING REPORT

CERTIFICATION
County Case # RO 285
Xtra Oil Company

3495 Castro Valley Blvd.

Castro Valley, CA

Dear Mr. Khatri:

P&D Environmental, Inc. has prepared the following document:

• Semi-Annual Groundwater Monitoring and Sampling Report (March 2011 Through August 2011) dated September 30, 2011 (document 0014.R80).

I declare under penalty of perjury that the contents and conclusions in the document are true and correct to the best of my knowledge.

Should you have any questions, please do not hesitate to contact me at (510) 865-9506.

Sincerely,

Xtra Oil Company

Keith Simas

P&D ENVIRONMENTAL, INC.

55 Santa Clara Ave, Suite 240 Oakland, CA 94610 (510) 658-6916

September 30, 2011 Report 0014.R80

Mr. Ted Simas Mr. Keith Simas Xtra Oil Company 2307 Pacific Ave. Alameda, CA 94501

SUBJECT: SEMI-ANNUAL GROUNDWATER MONITORING AND SAMPLING REPORT

(MARCH THROUGH AUGUST 2011)

County Case # RO 285 Xtra Oil Company 3495 Castro Valley Blvd. Castro Valley, California

Gentlemen:

P&D Environmental, Inc. (P&D) has prepared this report documenting the results of the most recent semi-annual monitoring and sampling of both the on- and off-site wells for the subject property. Onsite wells MW1, MW3, MW4, and EW1, offsite monitoring wells MW5 through MW12, and offsite observation wells OW1 and OW2 were monitored on July 19, 2011 and wells MW1, MW3, EW1, and MW5 through MW12 were sampled on July 19 and 20, 2011. U.S. EPA low flow purging methods were used during this sampling event for groundwater sample collection. The reporting period is for March through August 2011.

A Site Location Map (Figure 1), a Site Plan showing onsite well locations (Figure 2), and a Site Vicinity Map showing offsite well locations (Figure 3) are attached with this report. Figure 3 has been updated to show the correct location of OW2. Norbridge School shown on Figure 1 to the south of the subject site has been demolished and replaced with the Castro Valley BART station and associated parking lot.

During a site visit on May 18, 2011 for monthly groundwater treatment system sample collection the pump was determined to not be working. Comparison of the flow totalizer value on May 18, 2011 with the flow totalizer reading from the previous monthly site visit on April 7, 2011 shows that the pump was not operating from at least the time of the April 7, 2011 monthly groundwater treatment system sampling event, and possibly sooner. The pump was replaced on May 31, 2011 and pumping resumed on June 2, 2011.

BACKGROUND

The site is currently used as a gasoline station. Four 12,000 gallon underground fuel storage tanks are present at the site. Three of the tanks contain gasoline and the fourth tank contains diesel fuel. A 550 gallon waste oil tank was removed from the site in November 1988. The fuel tanks were replaced during August 1992.

Three monitoring wells, designated MW1, MW2 and MW3, were installed at the site on February 14 and 15, 1990 by Western Geo-Engineers. The subsurface materials encountered in the boreholes consisted primarily of silt and clay. The locations of the monitoring wells are shown on Figure 2. Soil samples collected during drilling of the boreholes for the monitoring wells revealed the presence of total petroleum hydrocarbons as gasoline (TPH-G) and total petroleum hydrocarbons as diesel (TPH-D).

TPH-G was encountered in borehole MW1 at depths of 5 and 10 feet below grade at concentrations of 40 and 1,400 mg/kg, respectively; in borehole MW2 at depths of 10 and 15 feet below grade at concentrations of 230 and 95 mg/kg, respectively; and in borehole MW3 at depths of 5, 10, and 15 feet at concentrations of 140, 250 and 25 mg/kg, respectively. In addition, 120 mg/kg TPH-D was detected in borehole MW3 at a depth of 5 feet. Soil samples collected at a depth of 20 feet in borehole MW1 and at a depth of 18 feet in boreholes in MW2 and MW3 did not show any detectable concentration of TPH-G or TPH-D. Groundwater was encountered in the boreholes at depths of approximately 15 to 16 feet below grade.

On February 15, 1990 Western Geo-Engineers drilled three exploratory boreholes at the site designated as SB1, SB2 and SB3. The subsurface materials encountered in the boreholes consisted primarily of silt and clay. The approximate locations of the boreholes are shown on Figure 2. It is P&D's understanding that soil samples were collected from the exploratory boreholes at depths of 10 and 12 feet and evaluated in the field using a photoionization detector. In borehole SB1, TPH-G was detected at the depths of 10 and 12 feet at concentrations of 1,700 and 450 mg/kg, respectively. In boreholes SB2 and SB3, TPH-G was detected at the depths of 10 and 12 feet in both boreholes at concentrations of 800 mg/kg and greater than 2,000 mg/kg, respectively. A groundwater monitoring and sampling program was initiated at the site on February 20, 1990.

It is P&D's understanding that during fuel tank replacement activities in August, 1992 soil surrounding the tank pit was removed and disposed of offsite. An extraction well, designated as EW1, was designed and constructed in one corner of the new tank pit by K&B Environmental at the time of installation of the new tanks. The location of EW1 is shown on Figure 2.

On February 7, 1996 well MW2 was destroyed associated with the widening of Redwood Road. The destruction was overseen by ACC Environmental Consultants of Oakland, California.

On August 15, 1997 P&D personnel oversaw the installation of one groundwater monitoring well, designated as MW4, at the subject site. The location of the monitoring well is shown on the attached Site Plan, Figure 2. This work was performed in accordance with P&D's work plan 0014.W4 dated June 27, 1997. The work plan was approved by the Alameda County Department of Environmental Health (ACDEH) in a telephone conversation with Mr. Scott Seery on August 14, 1997. During the conversation, Mr. Seery indicated that he would record his approval of the work plan in the county file for the site. In accordance with an October 25, 2002 letter from Mr. Seery, groundwater samples are to be analyzed for fuel oxygenates methyl tertiary-butyl ether (MTBE), tertiary amyl methyl ether (TAME), ethyl tertiary-butyl ether (ETBE), diisopropyl ether (DIPE), and tertiary-butyl alcohol (TBA), and lead scavengers ethylene dibromide (EDB), 1,2-dichloroethane (1,2-DCA) using EPA Method 8260; and data for observation wells OW1 and OW2, located in Redwood Road, are to

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be incorporated into monitoring and sampling reports for the subject site. Documentation of the well installation is provided in P&D's Monitoring Well Installation Report dated September 30, 1997 (document 0014.R25).

On May 31, 2005, P&D submitted an Interim Source Area Remediation Plan (ISARP) to ACDEH proposing free product removal at the site (document 0014.W9). P&D proposed using existing extraction well EW1 in the existing UST pit to dewater the existing pit and the previous UST pit. Monitoring of existing wells MW1, MW3, and MW4 to evaluate the effectiveness of water table drawdown at the site for plume control and associated free product recovery was also proposed.

In January 2007, P&D installed a groundwater extraction system consisting of a pump in well EW1, associated piping for discharge of water from the well, and a carbon filtration system. System operation began in February 2007. Documentation of the system installation and operation is provided in P&D's Interim Source Area Remediation Plan Progress Evaluation Report dated October 25, 2007 (document 0014.R67).

In response to a February 6, 2007 letter request from the ACDEH, P&D submitted a Groundwater Monitoring Well Installation Work Plan (MW5 Through MW13) dated March 5, 2007 (document 0014.W10) to the ACDEH proposing the installation of nine offsite groundwater monitoring wells in the vicinity of the subject site designated as MW5 through MW13. The ACDEH conditionally approved the work plan in an April 4, 2007 letter. P&D subsequently submitted a Groundwater Monitoring Well Installation Work Plan Amendment (MW5 Through MW12) dated May 3, 2007 (document 0014.W10A) to the ACDEH proposing the installation of eight offsite groundwater monitoring wells in the vicinity of the subject site designated as MW5 through MW12. Documentation of the implementation of the work plan and work plan amendment is provided in P&D's Groundwater Monitoring Well Installation Report (MW5 Through MW12) dated January 30, 2008 (document 0014.R68).

The groundwater extraction system that pumped from well EW1 was shut off on April 29, 2009 so that the carbon vessel could be moved to a new location as part of an expansion of the site onto the adjacent parcel located to the west. The system was subsequently sampled on October 26, 2010 in preparation for restarting the system which occurred on November 4, 2010.

The top of well MW1 was partially removed during expansion of the facility in 2009. On April 18, 2011 the elevations for the tops of wells MW1, MW4 and EW1 were resurveyed by a State-licensed surveyor. A copy of the survey report was attached with the semi-annual report for September 2010 through February 2011. The survey data was used in this semi-annual report for determination of groundwater surface elevations and groundwater flow direction determination at the site.

Sampling of groundwater monitoring wells was performed on a quarterly basis through January 2010. Since that time well sampling has been performed on a semi-annual basis.

FIELD ACTIVITIES

Onsite wells MW1, MW3, MW4, and EW1, offsite monitoring wells MW5 through MW12, and offsite observation wells OW1 and OW2 were monitored on July 19, 2011 and wells MW1, MW3, EW1, and MW5 through MW12 were sampled on July 19 and 20, 2011. The monitoring and sampling was performed in conjunction with monitoring and sampling by SOMA Environmental Engineering, Inc. of Pleasanton, California at the Former BP site at 3519 Castro Valley Boulevard.

On July 19, 2011 the wells at the subject site were monitored for depth to water and the presence of free product or sheen. In well MW4 the depth to water and depth to free product were measured to the nearest 1/32-inch with a steel tape and water-finding and product-finding paste. The passive hydrocarbon collection device in well MW4 was removed by P&D personnel and placed in storage near MW1 during pressure transducer installation in well MW4 on November 2, 2006. In wells OW1, OW2, MW1, MW3, and EW1, the depth to water was measured to the nearest 0.01 foot using an electric water level indicator. The presence of free product and sheen was also evaluated using a transparent bailer in wells MW1, MW3, MW5 through MW12, and EW1. The measured free product thickness in well MW4 was 0.75 feet. No water was encountered in observation wells OW1 and OW2, which are located in Redwood Road. No sample was collected from MW4 due to the presence of free product in the well, and no samples were collected from OW1 or OW2 because of insufficient water for sample collection in the wells (both wells were dry).

Prior to well sampling, onsite wells MW1 and MW3, and offsite wells MW5 through MW12 were purged with a peristaltic pump for a minimum of 15 minutes. Purging was performed using a peristaltic pump and new polyethylene tubing in each well with U.S. EPA low flow purging methods with the exception of well EW1. Flow rates were maintained at approximately 250 milliliters per minute to minimize turbulence and minimize the likelihood of sediments in the samples. During purging operations, the field parameters of electrical conductivity, temperature, pH, and turbidity were monitored and recorded on a groundwater monitoring/well purging data sheet. Because of the continuous operation of the dewatering pump in well EW1 purging was not performed prior to sample collection in this well. A sample was collected from well EW1 using a clean disposable bailer. Petroleum hydrocarbon odors were detected on the purge water from all three of the onsite sampled wells (MW1, MW3 and EW1), and petroleum hydrocarbon odors were also detected for the samples collected from offsite wells MW6 and MW8. Records of the field parameters measured during well purging are included with this report.

For all of the wells except EW1, the water samples were transferred directly from the tubing from the peristaltic pump to 40-milliliter glass VOA vials and 1-liter amber glass bottles that were sealed with Teflon-lined screw caps. The water sample from well EW1 was transferred from the bailer to the sample bottles. The VOA vials were overturned and tapped to ensure that no air bubbles were present. The VOA vials and bottles were then transferred to a cooler with ice, until they were transported to McCampbell Analytical, Inc. in Pittsburg, California. McCampbell Analytical, Inc. is

a State-accredited hazardous waste testing laboratory. Chain of custody documentation accompanied the samples to the laboratory.

HYDROGEOLOGY

On January 7, 2008 Kier & Wright (State-licensed surveyors) surveyed the top of all of the wells, including onsite wells MW1, MW3, MW4 and EW1, and offsite observation wells OW1 and OW2. The new top of well casing elevations for the wells and the associated calculated groundwater surface elevations are shown in Table 1. Comparison of the previous top of well casing elevations for wells MW1, MW3 and MW4 with the January 7, 2008 elevations shows that the January 7, 2008 elevations are 2.85, 3.06, and 2.86 feet higher, respectively, than the previously surveyed elevations. The top of well MW1 was partially removed during expansion of the facility in 2009. On April 18, 2011 the elevations for the tops of wells MW1, MW4 and EW1 were resurveyed by Kier & Wright. A copy of the survey report was attached with the semi-annual report for September 2010 through February 2011. The 2011 survey data was used to replace the 2008 survey data for wells MW1, MW4 and EW1 in this semi-annual report for determination of groundwater surface elevations and groundwater flow direction determination at the site.

The groundwater extraction system that pumped from well EW1 was shut off on April 29, 2009 so that the carbon vessel could be moved to a new location as part of an expansion of the site onto the adjacent parcel located to the west. The system was subsequently re-sampled on October 26, 2010 and restarted on November 4, 2010. During a site visit on May 18, 2011 for monthly groundwater treatment system sample collection the pump was determined to not be working. Comparison of the flow totalizer value on May 18, 2011 with the flow totalizer reading from the previous monthly site visit on April 7, 2011 shows that the pump was not operating from at least the time of the April 7, 2011 monthly groundwater treatment system sampling event, and possibly sooner. The pump was replaced on May 31, 2011 and pumping resumed on June 2, 2011.

The groundwater extraction and treatment system was operating during the July 19 and 20, 2011 well monitoring and sampling event. As of August 17, 2011 the total number of gallons pumped by the groundwater treatment system was 1,881,315. The historical volume of water pumped from the extraction well is presented in Table 2.

On July 19, 2011 the measured depth to water in wells MW1, MW3, MW4, and EW1 was 9.24, 9.27, 9.38, and 11.39 feet, respectively. A separate phase hydrocarbon layer measuring approximately 0.75 feet in thickness was measured in well MW4. Using a specific gravity of 0.75, the corrected depth to water in well MW4 is 8.82 feet. Since the previous monitoring event on February 14 and 15, 2011 the groundwater elevations (corrected for the presence of any detected free product) have decreased in onsite wells MW1, MW3, MW4, and EW1 by 1.44, 0.31, 1.04, and 0.01 feet, respectively. Since the previous monitoring and sampling event for the offsite wells on February 14 and 15, 2011 the groundwater elevations have decreased in offsite groundwater monitoring wells MW5, MW6, MW7, MW8, MW9, MW10, MW11, and MW12 by 0.82, 0.71, 0.41, 0.40, 0.73, 0.62, 0.48, and 0.12 feet, respectively.

Although the measured change in the water level in well MW11 has historically been attributed to very slow recovery of the well during previous sampling episodes in 2007, the change in water level since the previous sampling event in well MW11 of 0.48 feet and in nearby well MW7 of 0.41 feet is similar to the water level changes in other offsite wells which ranged from 0.12 to 0.82 feet. Historical differences in water levels observed in well MW11 are attributed to the lithology in the vicinity of Redwood Court. The measured depth to water in the wells and the separate phase layer thickness measured in monitoring well MW4 are summarized in Table 1.

Based on the measured depth to groundwater (corrected for the presence of any detected free product) in the onsite groundwater monitoring wells MW1, MW3 and MW4, the apparent groundwater flow direction at the site on July 19, 2011 was calculated to be to the west-southwest with a gradient of 0.0032. During the previous quarterly monitoring and sampling event on February 14 and 15, 2011 the groundwater flow direction was calculated to be to the south-southwest with a gradient of 0.015. The groundwater flow direction at the site on July 19, 2011 is shown on Figure 2. The groundwater flow direction has shifted to the west and the gradient has decreased since the previous monitoring and sampling event on February 14 and 15, 2011.

The current groundwater flow direction is different from historical groundwater flow directions prior to 2007 (when groundwater was not being pumped from well EW1), and is also different from groundwater flow directions identified during pumping from well EW1. The groundwater flow direction observed for July 19, 2011 is attributed to changes in free product thickness observed in well MW4. Rose diagrams showing historical groundwater flow directions at the site when groundwater was being pumped from well EW1 and when groundwater was not being pumped from well EW1 are shown on Figure 2. Rose diagrams shown on Figure 2 have been amended from previous reports to show historical groundwater flow directions during pumping and non-pumping periods.

Based on review of groundwater surface elevations in offsite groundwater monitoring wells MW5 through MW12, the groundwater flow direction in the vicinity of the site is southerly, ranging from the south-southeast with a gradient of 0.0094 in the vicinity of Redwood Road to the south-southwest with a gradient of 0.0066 in the vicinity of the west end of Redwood Court. These offsite groundwater flow directions and gradients are relatively consistent with groundwater flow directions and gradients observed during the previous monitoring and sampling episode. Groundwater surface elevations and contours and the approximate groundwater flow direction in the vicinity of the site based on July 19, 2011 water level measurements from the offsite wells are shown on Figure 3.

LABORATORY RESULTS

All of the groundwater samples collected on July 19 and 20, 2011 were analyzed for TPH Multirange (TPH-G, TPH-D, and TPH-MO) using EPA Methods 5030B and 3510C in conjunction with modified EPA Method 8015C; and for benzene, toluene, ethylbenzene, and total xylenes (BTEX), fuel oxygenates (MTBE, TAME, ETBE, TAME, and TBA) and lead scavengers EDB and 1,2-DCA/EDC using EPA Method 5030B in conjunction with EPA Method 8260B.

The laboratory analytical results for the samples collected from onsite wells MW1, MW3, and EW1 show that TPH-D was detected at concentrations of 2,900, 4,000, and 5,600 micrograms per Liter (μ g/L), respectively; TPH-G was detected at concentrations of 7,600, 30,000, and 9,700 μ g/L, respectively; benzene was detected at concentrations of 120, 17,000, and 3,100 μ g/L, respectively; and MTBE was detected in both wells MW3 and EW1 at a concentration of 1,400 μ g/L. No fuel oxygenates or lead scavengers were detected in the groundwater samples collected from onsite wells MW1, MW3, and EW1, with the exception of MTBE mentioned above and TBA, which was detected in the samples collected from wells MW3 and EW1 at concentrations of 3,200 and 5,900 μ g/L, respectively.

The laboratory analytical results for the samples collected from offsite wells MW5 through MW12 shows that no analytes were detected in the samples collected from wells MW9, MW10, and MW11; that only MTBE was detected in the sample collected from well MW12 at a concentration of 4.4 μ g/L;and only TPH-D, MTBE, and TBA were detected in the sample collected from well MW5 at concentrations of 94, 1.9, and 6.3 μ g/L, respectively. In the samples collected from the remaining offsite wells (MW6, MW7, and MW8) TPH-D was not detected in the sample collected from well MW7 and was detected in MW6 and MW8 at concentrations of 920 and 620 μ g/L, respectively; TPH-G was detected at concentrations of 45,000, 420, and 2,500 μ g/L, respectively; benzene was detected at concentrations of 4,600, 130, and 17 μ g/L, respectively; and MTBE was only detected in the sample collected from offsite well MW7 at a concentration of 6.7 μ g/L, and was not detected in the samples collected from offsite wells MW6 and MW8.

No other fuel oxygenates or lead scavengers were detected in any of the samples collected from any of offsite wells MW5 through MW12, with the exception of TBA in wells MW5 and MW7 at concentrations of 6.3 and $10 \,\mu\text{g/L}$, respectively.

Review of the laboratory analytical reports shows that the TPH-D results for the sample collected from wells MW1, MW3, MW6, MW8, and EW1 are all described as consisting of diesel and gasoline range compounds. Based on communications with the laboratory director regarding the laboratory footnote descriptions for samples MW3, MW6, and MW8, the following information was provided regarding alternate interpretations of the chromatograms for these samples.

- MW3: the diesel results could also be interpreted as aged gasoline.
- MW6: the diesel range compounds with no recognizable pattern could also be interpreted simply as gasoline-range compounds being significant.
- MW8: the diesel range compounds with no recognizable pattern could also be interpreted simply as diesel-range compounds.

The laboratory analytical results for the groundwater samples are summarized in Table 3. Copies of the laboratory analytical reports and chain of custody documentation are included with this report.

DISCUSSION AND RECOMMENDATIONS

Onsite wells MW1, MW3, MW4, and EW1, offsite observation wells OW1 and OW2, and offsite monitoring wells MW5 through MW12 were monitored on July 19, 2011 and wells MW1,

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MW3, EW1, and MW5 through MW12 were sampled on July 19 and 20, 2011. Separate phase hydrocarbons were measured in well MW4 at a thickness of 0.75 feet (changed from 0.17 on February 14, 2010).

Dewatering of the former UST pit began in February 2007 at extraction well EW1. The groundwater extraction system that pumped from well EW1 was shut off on April 29, 2009 so that the carbon vessel could be moved to a new location as part of an expansion of the site onto the adjacent parcel located to the west. The groundwater extraction system was subsequently restarted on November 4, 2010. During a site visit on May 18, 2011 for monthly groundwater treatment system sample collection the pump was determined to not be working. Comparison of the flow totalizer value on May 18, 2011 with the flow totalizer reading from the previous monthly site visit on April 7, 2011 shows that the pump was not operating from at least the time of the April 7, 2011 monthly groundwater treatment system sampling event, and possibly sooner. The pump was replaced on May 31, 2011 and pumping resumed on June 2, 2011. As of August 17, 2011 the total number of gallons pumped by the groundwater treatment system was 1,881,315.

Based on the measured depth to groundwater (corrected for the presence of any detected free product) in the onsite groundwater monitoring wells MW1, MW3 and MW4, the apparent groundwater flow direction at the site on July 19, 2011 was calculated to be to the west-southwest with a gradient of 0.0032. During the previous quarterly monitoring and sampling event on February 14 and 15, 2011 the groundwater flow direction was calculated to be to the south-southwest with a gradient of 0.015. The change in groundwater flow direction observed for July 19, 2011 is attributed to changes in free product thickness observed in well MW4.

Based on review of groundwater surface elevations in offsite groundwater monitoring wells MW5 through MW12, the groundwater flow direction in the vicinity of the site is southerly, ranging from the south-southeast with a gradient of 0.0094 in the vicinity of Redwood Road to the south-southwest with a gradient of 0.0066 in the vicinity of the west end of Redwood Court. These offsite groundwater flow directions and gradients are relatively consistent with groundwater flow directions and gradients observed during the previous monitoring and sampling episode.

Review of changes in onsite water quality since the previous sampling event on February 14 and 15, 2011 shows that all analyte concentrations have decreased or remained the same in wells MW1, MW3, and EW1 with the exceptions of toluene in well MW1, ethylbenzene in MW3, and TBA in well EW1 which increased.

Review of changes in offsite water quality since the previous sampling event on February 14 and 15, 2011 shows that all analyte concentrations have decreased or remained not detected in wells MW5, MW6, MW8, MW9, MW10, MW11, and MW12 with the exceptions of TPH-D, MTBE, and TBA in well MW5, and MTBE in well MW12, which increased. In well MW7, all analyte concentrations increased or remained not detected.

Based on the laboratory analytical results of the water samples collected from the monitoring wells, P&D recommends that semi-annual groundwater monitoring and sampling be continued. In addition, P&D recommends that future monitoring and sampling efforts continue to be coordinated

with the Former BP site located at 3519 Castro Valley Boulevard. In accordance with communications with ACDEH, although future monitoring and sampling events will be performed in conjunction with the consultant for the Former BP site located at 3519 Castro Valley Boulevard, the results obtained by the other consultant are not included in this current report and will not be included in future P&D reports because the information is readily available via the internet at both the county website and the GeoTracker website.

Based on the decreased benzene concentrations in onsite wells MW1 and MW3 since the re-starting of groundwater pumping at well EW1, P&D recommends that groundwater pumping be continued at well EW1. P&D also recommends that the separate phase petroleum layer be removed from well MW4.

DISTRIBUTION

A copy of this report will be uploaded to the ACDEH website, in accordance with ACDEH requirements. In addition, a copy of this report will be uploaded to the GeoTracker database.

LIMITATIONS

This report was prepared solely for the use of Xtra Oil Company. The content and conclusions provided by P&D in this assessment are based on information collected during our investigation, which may include, but not be limited to, visual site inspections; interviews with the site owner, regulatory agencies and other pertinent individuals; review of available public documents; subsurface exploration and our professional judgment based on said information at the time of preparation of this document. Any subsurface sample results and observations presented herein are considered to be representative of the area of investigation; however, geological conditions may vary between borings and may not necessarily apply to the general site as a whole. If future subsurface or other conditions are revealed which vary from these findings, the newly revealed conditions must be evaluated and may invalidate the findings of this report.

This report is issued with the understanding that it is the responsibility of the owner, or his representative, to ensure that the information contained herein is brought to the attention of the appropriate regulatory agencies, where required by law. Additionally, it is the sole responsibility of the owner to properly dispose of any hazardous materials or hazardous wastes left onsite, in accordance with existing laws and regulations.

This report has been prepared in accordance with generally accepted practices using standards of care and diligence normally practiced by recognized consulting firms performing services of a similar nature. P&D is not responsible for the accuracy or completeness of information provided by other individuals or entities which is used in this report. This report presents our professional judgment based upon data and findings identified in this report and interpretation of such data based upon our experience and background, and no warranty, either express or implied, is made. The conclusions presented are based upon the current regulatory climate and may require revision if future regulatory changes occur.

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Should you have any questions, please do not hesitate to contact us at (510) 658-6916.

Sincerely,

P&D Environmental, Inc.

Paul H. King

Professional Geologist #5901

Expires: 12/31/11



Attachments:

Table 1 – Historical Water Level Data

Table 2 – Historical Volume Pumped From Well EW1

Table 3 – Historical Water Quality Data

Figure 1 – Site Location Map

Figure 2 – Site Plan Showing July 19, 2011 Water Level Data

Figure 3 – Site Vicinity Map Showing July 19, 2011 Water Level Data

Well Monitoring and Purge Data Sheets

Laboratory Analytical Reports and Chain of Custody Documentation

PHK/ sjc 0014.R80

TABLES

Well Number	Date Monitored	Top of Casing Elevation (Ft)	Depth to Water (Ft)	Water Table Eleva (Ft)
MW1	7/19/2011	179.43+++	9.24	170.19
	2/14/2011 7/26/2010	179.43+++ 180.22++	7.80 8.10	171.63 172.12
	1/27/2010	180.22++	6.41	172.12
	10/15/2009	180.22++	7.22	173.00
	7/7/2009	180.22++	8.44	171.78
	4/6/2009	180.22++	8.35	171.87
	1/6/2009	180.22++	8.42	171.80
	10/22/2008	180.22++	8.80	171.42
	7/16/2008	180.22++	8.40	171.82
	4/15/2008	180.22++	8.41	171.81
	1/17/2008	180.22++	8.01	169.36
	10/16/2007	177.37*	8.65	168.72
	7/25/2007	177.37*	8.49	168.88
	4/17/2007	177.37*	8.30	169.07
	1/18/2007	177.37*	7.85 7.38	169.52
	11/14/2006	177.37*	7.80	169.99 169.57
	6/29/2006 2/3/2006	177.37* 177.37*	6.65	170.72
	11/18/2005	177.37*	8.17	169.20
	7/28/2005	177.37*	7.98	169.39
	4/13/2005	177.37*	6.90	170.47
	1/31/2005	177.37*	7.20	170.17
	10/15/2004	177.37*	8.52	168.85
	7/13/2004	177.37*	8.33	169.04
	4/6/2004	177.37*	7.93	169.44
	12/18/2003	177.37*	7.65	169.72
	9/18/2003	177.37*	8.15	169.22
	6/19/2003	177.37*	8.13	169.24
	3/18/2003	177.37*	7.77	169.60
	12/21/2002	177.37*	5.74	171.63
	9/10/2002	177.37*	8.28	169.09
	3/30/2002	177.37*	7.43	169.94
	12/21/2001	177.37*	6.92	170.45
	9/23/2001	177.37*	8.53	168.84
	6/22/2001	177.37*	8.30	169.07
	4/22/2001 12/14/2000	177.37* 177.37*	7.77 8.49	169.60 168.88
	9/18/2000	177.37*	8.56	168.81
	6/8/2000	177.37*	7.97	169.40
	3/9/2000	177.37*	6.68	170.69
	12/9/1999	177.37*	8.15	169.22
	8/31/1999	177.37*	8.36	169.01
	4/29/1999	177.37*	7.68	169.69
	01/29/1999	177.37*	6.99	170.38
	4/26/1998	177.37*	7.5	169.87
	1/24/1998	177.37*	6.61	170.76
	11/6/1997	177.37*	8.79	168.58
	8/26/1997	177.37*	8.51	168.86
	7/24/1997	177.43**	8.71	168.72
	4/25/1997	177.43**	7.98	169.45
	1/20/1997	177.43**	7.12	170.31
	7/26/1996	177.43**	8.39	169.04
	7/9/1996 4/23/1996	177.43** 177.43**	8.16 7.47	169.27 169.96
	2/7/1996	177.43**	6.09	171.34
	1/29/1996	177.43**	6.17	171.34
	10/26/1995	177.43**	8.45	168.98
	7/28/1995	177.43**	8.27	169.16
	5/2/1995	177.43**	6.96	170.47
	2/23/1995	177.43**	7.72	169.71
	11/18/1994	177.43**	7.14	170.29
	8/22/1994	177.43**	8.67	168.76
	5/19/1994	177.43**	8.05	169.38
	2/28/1994	177.43**	7.44	169.99
	11/24/1993	177.43**	8.74	168.69
	8/30/1993	177.43**	8.78	168.65
	5/18/1993	177.43**	8.12	169.31
	2/23/1993	177.43**	7.34	170.09
	11/13/1992	200.00***	9.13	190.87
	5/29/1992	175.73	8.59	167.14
	1/14/1992	175.73	8.57	167.16
	12/23/1991	175.73	9.65	166.08
	11/25/1991	175.73	9.41	166.32
	10/10/1991	175.73	9.7	166.03
	9/17/1991	175.73	9.5	166.23
	8/19/1991	175.73	9.31	166.42

		Top of Casing		Water Table Elevation
Well Number MW2	Date Monitored	Elevation (Ft)	Depth to Water (Ft)	<u>(Ft)</u>
IVI W Z	NOT MEASURED (DES 2/7/1996	176.04**	5.70	170.34
	1/29/1996	176.04**	5.16	170.88
	10/26/1995	176.04**	8.21	167.83
	7/28/1995	176.04**	7.99	168.05
	5/2/1995	176.04**	6.79	169.25
	2/23/1995	176.04**	7.51	168.53
	11/18/1994 8/22/1994	176.04** 176.04**	6.92 8.59	169.12 167.45
	5/19/1994	176.04**	7.70	168.34
	2/28/1994	176.04**	6.99	169.05
	11/24/1993	176.04**	8.47	167.57
	8/30/1993	176.04**	8.64	167.40
	5/18/1993	176.04**	7.73	168.31
	2/23/1993	176.04**	6.39	169.65
	11/13/1992	198.61***	8.70	189.91
	5/29/1992	175.45	9.31	166.14
	1/14/1992	175.45	8.97	166.48
	12/23/1991	175.45	10.39	165.06
	11/25/1991 10/10/1991	175.45 175.45	9.81 10.39	165.64 165.06
	9/17/1991	175.45	10.23	165.22
	8/19/1991	175.45	9.60	165.85
		2.5115	2.00	100.00
MW3	7/19/2011	179.46++	9.27	170.19
	2/14/2011	179.46++	8.96	170.50
	7/26/2010	179.46++	8.06	171.40
	1/27/2010	179.46++	5.82	173.64
	10/15/2009	179.46++	7.55	171.91
	7/7/2009	179.46++	8.50	170.96
	4/6/2009	179.46++	8.73	170.73
	1/6/2009 10/22/2008	179.46++ 179.46++	8.88 9.29	170.58 170.17
	7/16/2008	179.46++	9.03	170.17
	4/15/2008	179.46++	9.19	170.27
	1/17/2008	176.40*	8.90	167.50
	11/16/2007	176.40*	9.43	166.97
	7/25/2007	176.40*	9.35	167.05
	4/17/2007	176.40*	8.88	167.52
	1/18/2007	176.40*	7.32	169.08
	11/14/2006	176.40*	7.53	168.87
	6/29/2006	176.40*	7.58	168.82
	2/3/2006	176.40* 176.40*	6.10 7.63	170.30 168.77
	11/18/2005 7/28/2005	176.40*	7.58	168.82
	4/13/2005	176.40*	6.35	170.05
	1/31/2005	176.40*	6.79	169.61
	10/15/2004	176.40*	8.28	168.12
	7/13/2004	176.40*	8.11	168.29
	4/6/2004	176.40*	7.41	168.99
	12/18/2003	176.40*	6.99	169.41
	9/18/2003	176.40*	7.91	168.49
	6/19/2003	176.40*	7.60	168.80
	3/18/2003	176.40*	7.35	169.05
	12/21/2002 09/10/2002	176.40* 176.40*	5.43 7.97	170.97 168.43
	03/30/2002	176.40*	6.97	169.43
	12/22/2001	176.40*	6.44	169.96
	09/23/2001	176.40*	8.17	168.23
	06/22/2001	176.40*	8.06	168.34
	04/22/2001	176.40*	7.50	168.90
	12/14/2000	176.40*	8.13	168.27
	9/18/2000	176.40*	7.83	168.57
	09/26/2000	176.40*	7.77	168.63
	6/8/2000	176.40*	7.50	168.90
	03/09/2000 12/9/1999	176.40* 176.40*	6.08 7.90	170.32
	12/9/1999 8/31/1999	176.40* 176.40*	7.90	168.50 168.45
	4/29/1999	176.40*	7.95	169.31
	1/29/1999	176.40*	6.42	169.98
	04/26/1998	176.40*	6.85	169.55
	01/24/1998	176.40*	5.90	170.50
	11/6/1997	176.40*	7.80	168.80
	8/26/1997	176.40*	7.67	168.73
·	7/24/1997	176.41**	7.90	168.51
·	4/25/1997	176.41**	7.12	169.29
	01/20/1997	176.41**	6.35	170.06

		Top of Casing		Water Table Elevat
Well Number	Date Monitored	Elevation (Ft)	Depth to Water (Ft)	<u>(Ft)</u>
MW3	7/26/1996	176.41**	7.84	169.57
(Continued)	7/9/1996	176.41**	7.61	168.80
	04/23/1996	176.41**	6.81	169.60
	2/7/1996	176.41**	5.05	170.36
	01/29/1996	176.41**	5.77	170.64
	10/26/1995	176.41**	7.72	168.69
	07/28/1995	176.41**	7.80	168.61
	05/02/1995	176.41**	6.50	169.91
	2/23/1995 11/18/1994	176.41**	7.24	169.17 170.36
	8/22/1994	176.41** 176.41**	6.05 7.65	168.76
	5/19/1994	176.41**	7.05	169.26
	2/24/1994	176.41**	6.68	169.73
	11/24/1993	176.41**	7.55	168.86
	8/30/1993	176.41**	7.64	168.77
	5/18/1993	176.41**	7.12	169.29
	2/23/1993	176.41**	8.01	168.40
	11/13/1992	190.97***	7.86	191.12
	5/29/1992	175.00	8.45	166.55
	1/14/1992	175.00	8.24	166.55
	12/23/1991	175.00	9.37	165.63
	11/25/1991	175.00	9.19	165.81
	10/10/1991	175.00	9.43	165.57
	09/17/1991	175.00	9.20	165.80
	8/19/1991	175.00	8.95	166.05
	0.2,7.2,72	2,0,00		
MW4	7/19/2011	179.22+++	9.38(0.75)#	170.40
*	2/14/2011	179.22+++	7.91(0.17)#	171.44
	7/26/2010	179.21++	8.31(0.76)#	171.47
	1/27/2010	179.21++	6.58(0.83)#	173.25
	10/15/2009	179.21++	7.06(0.46)#	172.50
	7/7/2009	179.21++	8.16(0.22)#	171.22
	4/6/2009	179.21++	7.90(0.16)#	171.43
	1/6/2009	179.21++	8.00(0.19)#	171.35
	10/22/2008	179.21++	8.46(0.08)#	170.81
	7/16/2008	179.21++	8.04(0.21)#	171.33
	4/15/2008	179.21++	8.00(0.25)#	171. 40
	1/17/2008	176.35*	7.50(0.17)#	168.98
	10/16/2007	176.35*	8.50(0.25)#	168.04
	7/25/2007	176.35*	8.04(0.17)#	168.44
	4/17/2007	176.35*	7.94(0.19)#	168.55
	1/18/2007	176.35*	7.38(0.21)#	169.13
	11/14/2006	176.35*	7.36(0.25)#	169.18
	6/29/2006	176.35*	Unknown	Unknown
	2/3/2006	176.35*	5.86	170.49
	11/18/2005	176.35*	7.99 (0.51)#	168.36
	7/28/2005	176.35*	7.59	168.76
	4/13/2005	176.35*	6.78 (0.01)#	169.58
	1/31/2005	176.35*	7.34 (0.19)#	169.15
	10/15/2004	176.35*	8.73 (0.15)#	167.73
	7/13/2004	176.35*	8.44 (0.03)#	167.93
	4/6/2004	176.35*	9.58 (2.83)#	168.89
	2/11/2004	176.35*	9.43 (2.70)#	168.95 167.73
	12/18/2003	176.35* 176.35*	9.75 (1.51)#	
	9/18/2003 6/19/2003	176.35*	9.13 (1.80)# 8.56 (0.31)#	168.57 168.02
	3/18/2003		7.49 (0.06)#	168.02
	12/21/2002	176.35* 176.35*	7.49 (0.06)# 8.58 (4.39)#	171.06
	9/10/2002	176.35*	9.09 (1.60)#	168.46
	03/30/2002	176.35*	9.86 (2.49)#	168.36
	12/22/2001	176.35*	7.79 (1.75)#	169.87
	9/23/2001	176.35*	8.97 (1.17)#	168.26
	06/22/2001	176.35*	7.79	168.56
	4/22/2001	176.35*	9.07 (2.20)#	168.93
	12/14/2000	176.35*	8.87 (0.72)#	168.02
	09/18/2000	176.35*	8.50 (0.45)#	168.19
	6/8/2000	176.35*	7.34	169.01
	3/9/2000	176.35*	6.61 (0.46)#	170.08
	12/9/1999	176.35*	8.80	167.55
	08/31/1999	176.35*	8.28	168.07
	4/29/1999	176.35*	7.14	169.21
	1/29/1999	176.35*	6.68	169.67
	04/26/1998	176.35*	6.87	169.48
	01/24/1998	176.35*	6.61	169.74
	11/6/1997	176.35*	9.16	167.19
	08/26/1997	176.35*	8.92	167.43
	00/20/1///	1,0.00		107.75
	08/20/1997	176.35*	7.66^	

Well Number	Date Monitored	Top of Casing Elevation (Ft)	Depth to Water (Ft)	Water Table Elev
MW5	7/19/2011	176.02++	6.82	169.20
IVI VV S	2/14/2011	176.02++	6.00	170.02
	7/26/2010	176.02++	5.96	170.06
	1/27/2010	176.02++	4.20	171.82
	10/15/2009	176.02++	5.04	170.98
	7/7/2009	176.02++	6.18	169.84
	4/6/2009	176.02++	5.86	170.16
	1/6/2009	176.02++	5.91	170.11
	10/22/2008	176.02++	6.55	169.47
	7/16/2008	176.02++	6.01	170.01
	4/15/2008	176.02++	5.90	170.12
	12/17/2007	176.02++	5.83	170.19
	12/13/2007 12/12/2007	176.02++ 176.02++	5.83 5.98	170.19 170.04
MW6	7/19/2011	175.24++	6.54	168.70
	2/14/2011	175.24++	5.83	169.41
	7/26/2010 1/27/2010	175.24++ 175.24++	5.79 4.02	169.45 171.22
	10/15/2009	175.24++	4.02	170.32
	7/709	175.24++	6.00	170.32
	4/6/2009	175.24++	5.66	169.58
	1/6/2009	175.24++	5.72	169.52
	10/22/2008	175.24++	6.36	168.88
	7/16/2008	175.24++	5.88	169.36
	4/15/2008	175.24++	5.00	170.24
	12/17/2007	175.24++	5.69	169.55
	12/13/2007	175.24++	5.63	169.61
	12/11/2007	175.24++	6.17^	169.07
MW7	7/19/2011	170.34++	4.14	166.20
IVI VV /	2/14/2011	170.34++	3.73	166.61
	7/26/2010	170.34++	3.72	166.62
	1/27/2010	170.34++	2.22	168.12
	10/15/2009	170.34++	2.76	167.58
	7/7/2009	170.34++	3.98	166.36
	4/6/2009	170.34++	3.57	166.77
	1/6/2009	170.34++	3.62	166.72
	10/22/2008	170.34++	4.24	166.10
	7/16/2008	170.34++	4.06	166.28
	4/15/2008	170.34++	3.60	166.74
	12/17/2007	170.34++	3.68	166.66
	12/13/2007	170.34++	4.74	165.60
	12/12/2007	170.34++	5.49	164.85
	12/11/2007	170.34++	5.98^	164.36
MW8	7/19/2011	176.00++	7.35	168.65
	2/14/2011	176.00++	6.95	169.05
	7/26/2010	176.00++	6.96	169.04
	1/27/2010	176.00++	5.17	170.83
	10/15/2009	176.00++	6.08	169.92
	7/7/2009	176.00++	7.34	168.66
	4/6/2009	176.00++	6.84	169.16
	1/6/2009	176.00++	6.88	169.12
	10/22/2008	176.00++	7.91 7.20	168.09 168.80
	7/16/2008 4/15/2008	176.00++ 176.00++		168.80
	4/15/2008 12/17/2007	176.00++	6.76 6.73	169.24
	12/17/2007	176.00++	6.52	169.48
	12/12/2007	176.00++	6.56^	169.44
MW9	7/10/2011	175.00	211	157.05
MW9	7/19/2011	175.09++	7.14	167.95
	2/14/2011 7/26/2010	175.09++	6.41	168.68
	1/27/2010	175.09++ 175.09++	6.41 4.61	168.68 170.48
	10/15/2009	175.09++	5.57	169.52
	7/7/2009	175.09++	6.69	168.40
	4/6/2009	175.09++	6.27	168.82
	1/6/2009	175.09++	6.32	168.77
	10/22/2008	175.09++	6.96	168.13
	7/16/2008	175.09++	6.57	168.52
	4/15/2008	175.09++	6.44	168.65
	12/17/2007	175.09++	6.35	168.74
·	12/13/2007	175.09++	6.31	168.78
	12/11/2007	175.09++	11.21^	163.88
MW10	7/19/2011	176.03++	6.44	169.59
*	2/14/2011	176.03++	5.82	170.21
	7/26/2010	176.03++	5.78	170.25
	1/27/2010	176.03++	3.94	172.09
	10/15/2009	176.03++	4.83	171.20
	10/13/2009	170.05		
	7/7/2009	176.03++	6.00	170.03

		Top of Casing		Water Table Elevati
Well Number	Date Monitored	Elevation (Ft)	Depth to Water (Ft)	(Ft)
MW10	10/22/2008	176.03++	6.46	169.57
(Continued)	7/16/2008	176.03++	5.83	170.20
	4/15/2008	176.03++	5.64	170.39
	12/17/2007	176.03++	5.77	170.26
	12/13/2007	176.03++	5.55	170.48
	12/12/2007	176.03++	5.70^	170.33
MW11	7/19/2011	171.03++	4.62	166.41
11211122	2/14/2011	171.03++	4.14	166.89
	7/26/2010	171.03++	4.17	166.86
	1/27/2010	171.03++	1.83	169.20
	10/15/2009	171.03++	3.26	167.77
	7/7/2009	171.03++	4.40	166.63
	4/6/2009	171.03++	3.97	167.06
	1/6/2009	171.03++	4.04	166.99
	10/22/2008	171.03++	4.87	166.16
	7/16/2008	171.03++	4.38	166.65
	4/15/2008	171.03++	3.70	167.33
	12/17/2007	171.03++	10.19	160.84
	12/13/2007	171.03++	12.72	158.31
	12/12/2007	171.03++	12.99	158.04
	12/11/2007	171.03++	11.94^	159.09
MW/12	7/10/2011	172.00	7.00	166.00
MW12	7/19/2011 2/14/2011	173.98++	7.90 7.78	166.08
		173.98++		166.20
	7/26/2010 1/27/2010	173.98++ 173.98++	7.96 5.99	166.02 167.99
	10/15/2009	173.98++	7.02	167.99
	7/7/2009	173.98++	8.31	165.67
	4/6/2009	173.98++	7.70	166.28
	1/6/2009	173.98++	7.61	166.37
	10/22/2008	173.98++	9.02	164.96
	7/16/2008	173.98++	8.47	165.51
	4/15/2008	173.98++	7.77	166.21
	12/17/2007	173.98++	7.71	166.27
	12/13/2007	173.98++	7.66	166.32
	12/12/2007	173.98++	7.67^	166.31
EW1	7/19/2011	179.28+++	11.39	167.89
	2/14/2011	179.28+++	11.38	167.90
	7/26/2010	179.27++	7.43	171.84
	1/27/2010	179.27++	4.22	175.05
	10/15/2009	179.27++	5.96	173.31
	7/7/2009	179.27++	8.29	170.98
	4/6/2009	179.27++	11.35	167.92
	1/6/2009	179.27++	11.41 11.40	167.86
	10/22/2008	179.27++ 179.27++	11.40	167.87
	7/16/2008 4/15/2008	179.27++	11.40	167.87 167.87
	1/17/2008	179.27++	11.40	167.86
	11/16/2007	179.27++	11.41	167.32
	7/25/2007	179.27++	11.57	167.70
	4/17/2007	179.27++	11.35	167.92
	1/18/2007	179.27++	6.60	172.67
	11/14/2006	179.27++	6.11	173.16
	6/29/2006	179.27++	6.88	172.39
	2/3/2006	179.27++	5.23	174.04
	11/18/2005	179.27++	6.63	172.64
	7/28/2005	179.27++	6.94	172.33
	4/13/2005	179.27++	5.23	174.04
	1/31/2005	179.27++	6.25	173.02
	10/15/2004	179.27++	7.65	171.62
	7/13/2004	179.27++	7.51	171.76
	4/6/2004	179.27++	6.63	172.64
-	12/18/2003	179.27++	6.72	172.55
	9/18/2003	179.27++	7.29	171.98
OW1	7/19/2011	178.93++	No Water or Product	None
OW1	2/14/2011	178.93++	No Water or Product	None
		178.93++	No Water or Product No Water or Product	None
	7/26/2010	1/0.93++	6.95	171.98
	7/26/2010	178 03		1/1.70
	1/27/2010	178.93++ 178.93++		
	1/27/2010 10/16/2009	178.93++	No Water or Product	None
	1/27/2010 10/16/2009 7/7/2009	178.93++ 178.93++	No Water or Product No Water or Product	None None
	1/27/2010 10/16/2009 7/7/2009 4/6/2009	178.93++ 178.93++ 178.93++	No Water or Product No Water or Product Not Measured	None None None
	1/27/2010 10/16/2009 7/7/2009 4/6/2009 1/6/2009	178.93++ 178.93++ 178.93++ 178.93++	No Water or Product No Water or Product Not Measured No Water or Product	None None None None
	1/27/2010 10/16/2009 7/7/2009 4/6/2009	178.93++ 178.93++ 178.93++	No Water or Product No Water or Product Not Measured	None None None

Well Number	Date Monitored	Top of Casing Elevation (Ft)	Depth to Water (Ft)	Water Table Elevati (Ft)
OW1	1/17/2008	178.93++	4.00	174.93
(Continued)	11/16/2007	178.93++	No Water or Product	None
	7/25/2007	178.93++	No Water or Product	None
	4/17/2007	178.93++	No Water or Product	None
	1/18/2007	178.93++	No Water or Product	None
	11/14/2006	178.93++	No Water (sheen)	None
	6/29/2006	178.93++	7.13	171.8
	2/3/2006	178.93++	6.97	171.96
	11/18/2005	178.93++	7.43 (0.13)#	171.60
	7/28/2005	178.93++	7.06 (0.01)#	171.88
	4/13/2005	178.93++	6.99	171.94
	1/31/2005	178.93++	7.03	171.90
	10/15/2004	178.93++	7.19 (0.08)#	171.80
	7/14/2004	178.93++	7.02	171.91
	4/6/2004	178.93++	7.01	171.92
	2/11/2004	178.93++	7.01	171.92
	10/6/2003	178.93++	7.07 (0.01)#	171.87
	11/2/2000	178.93++	7.12,##	171.81
	1/29/1999	178.93++	7.12	171.81
	12/9/1999	178.93++	7.27	171.66
		170,2311	1.21	171.00
OW2	7/19/2011	176.03++	No Water or Product	None
0112	2/14/2011	176.03++	No Water or Product	None
	7/26/2010	176.03++	No Water or Product	None
	1/27/2010	176.03++	7.03	169.00
	10/16/2009	176.03++	No Water or Product	None
				None
	7/7/2009	176.03++	No Water or Product Not Measured	
	4/6/2009	176.03++		None
	1/6/2009	176.03++	No Water or Product	None
	10/22/2008	176.03++	No Water or Product	None
	7/16/2008	176.03++	No Water or Product	None
	4/15/2008	176.03++	No Water or Product	None
	1/17/2008	176.03++	No Water or Product	None
	11/16/2007	176.03++	No Water or Product	None
	7/25/2007	176.03++	No Water or Product	None
	4/17/2007	176.03++	No Water or Product	None
	1/18/2007	176.03++	No Water or Product	None
	11/14/2006	176.03++	7.27	168.76
	6/29/2006	176.03++	7.30	168.73
	2/3/2006	176.03++	7.08	168.95
	11/18/2005	176.03++	7.33	168.70
	7/28/2005	176.03++	7.27	168.76
	4/13/2005	176.03++	7.06	168.97
	1/31/2005	176.03++	7.29	168.74
	10/15/2004	176.03++	No Water or Product	None
	7/14/2004	176.03++	No Water or Product	None
	4/6/2004	176.03++	7.27	168.76
	2/11/2004	176.03++	7.19	168.84
	10/6/2003	176.03++	7.19	168.74
	10/6/2003	176.03++	7.29	168.74
	1/29/1999	176.03++	7.19	168.84
	12/9/1999	176.03++	7.17	168.86
NOTEC				
NOTES:				
	18, 2011 (MW1, MW4, E	W1 only)		
Surveyed on Januar				
Surveyed on August				
Surveyed on March				
= Surveyed on Dece				
Prior to well develop				
	t thickness in feet. The wat			
	e of free product by assuming		gravity of 0.75.	
Petroleum hydrocar	bon odor reported on probe	for water level indicator.	<u> </u>	
	r during initial manitaring	nurging and/or sample of	ollection; from 2nd half 2007	to present on
Sheen observed eithe	i during minai momoring.			
	during initial monitoring,	purging, and/or sample e		Î
Sheen observed eithe = Not Applicable	during initial monitoring,	purging, unavor sample o		

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114/2011 1,549,902 1,550,033.3 31,666.0 35 3,761.9	and re-located at the site on 4/29/09
211/2011 1,624.177 1,624.308.4 74.275.1 28 2,652.7	
47/2011 1,787,788 1,787,919.3 32,258.0 27 1,194.7 5/18/2011 1,787,788 1,787,919.3 0.0 41 0.0 Pump discovered to be not operating operating operating by end of 4/7/11. Pump re 6/6/2011 6/6/2011 1,827,032 1,827,163.3 39,244.0 19 2,065.5 6/2/2011 1,840,129 1,802,063 13,097.0 15 873.1 7/7/2011 1,854,528 1,854,659.3 14,399.0 16 899.9 7/20/2011 1,867,459 1,867,590.3 12,931.0 13 994.7	
5/18/2011 1,787,788 1,787,919.3 0.0 41 0.0 Pump discovered to be not operating operating by end of 4/7/11. Pump re operat	
66/2011 1,827,032 1,827,163.3 39,244.0 19 2,065.5 621/2011 1,840,129 1,840,260.3 13,097.0 15 873.1 7/7/2011 1,854,528 1,854,659.3 14,399.0 16 899.9 7/20/2011 1,867,459 1,867,590.3 12,931.0 13 994.7	erating 5/18/11. Totalizer reading indicates pump was not
621/2011 1,840,129 1,840,260.3 13,097.0 15 873.1 7/7/2011 1,854,528 1,854,659.3 14,399.0 16 899.9 7/20/2011 1,867,459 1,867,590.3 12,931.0 13 994.7	rump replaced on 5/31/11 and restarted 6/2/11.
7/20/2011 1,867,459 1,867,590.3 12,931.0 13 994.7	
1,001,000 10,000 20 770,2	
Average GPD = 1649.3 Average GPM = 1.1	

Date	TPH-D	TPH-G	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Other Fuel Additives by 8260*
MW1								
7/20/2011	2,900, d	7,600	ND<25	120	52	710	490	ND<25, except TBA ND<100
2/15/2011	17,000, a,d	17,000, a	20	120	48	930	490	ND<12, except TBA ND<50
7/27/2010	4,700, f	20,000	45	330	180	1,500	1,000	ND<25, except TBA ND<100
1/28/2010	4,500, d	18,000	ND<50	200	170	1,200	1,200	ND<50, except TBA ND<200
10/16/2009	5,800, a,d	23,000, a	ND<25	240	170	1,800	2,200	ND<25, except TBA ND<100
7/8/2009	6,800, a,d	16,000, a	ND<17	99	100	880	1,100	ND<17, except TBA ND<67
1/7/2009	5,400, d	15,000	ND<50	140	160	1,100	1,600	ND<50, except TBA ND<200
10/23/2008	3,800, c	18,000	ND<50	180	200	1,400	1,900	ND<50, except TBA ND<200
7/17/2008	4,300, c	16,000	ND<25	210	160	1,000	1,600	ND<25, except TBA ND<100
4/16/2008	3,200, c	13,000	29	150	110	870	1,200	ND<17, except TBA ND<67
1/17/2008	3,800, d	22,000	74	310	220	1,200	1,700	ND<50, except TBA ND<20(
10/16/2007	2,500, a, d	23,000, a	130	480	230	1,100	1,700	ND<25, except TBA ND<25(
7/25/2007	3,900, d	15,000, b	130	250	23	ND<10	1,500	ND<10, except TBA ND<10(
4/17/2007	6,200, d	23,000	260	780	320	1,100	2,000	ND<25, except TBA ND<250
1/18/2007	6,400, d	29,000	ND<1,000	1,800	870	1,600	3,300	ND<50, except TBA ND<500
11/14/2006	7,200, d	30,000	440	2,200	600	1,800	2,900	ND<50, except TBA ND<500, Ethanol ND<5,000, Methanol ND<50,00
6/29/2006	22,000,d	45,000	1,200	3,100	940	2,000	3,900	ND<50, TBA ND<500
2/3/2006	9,700,c	37,000	620	2,200	1,200	2,000	3,500	ND<50, TBA ND<500
11/18/2005	4,300,d	25,000	140	1,600	430	1,800	2,700	ND<50, TBA ND<500
7/28/2005	16,000,a,d	30,000,a	260,+	2,500	760	2,100	4,800	ND<50, TBA ND<500
4/13/2005	9,300,d	30,000	300	1,900	600	1,700	3,000	ND<50, TBA ND<500
1/31/2005	14,000,d	29,000	270	2,200	1,200	1,900	5,000	ND<50, TBA ND<500
10/15/2004	16,000,a,d	36,000,a	ND<50	1,500	1,000	2,100	5,100	ND<50, TBA ND<500
7/13/2004	22,000a,d	34,000,a	53	2,100	590	2,100	4,400	ND<50, TBA ND<500
4/6/2004	18,000,a,d	28,000,a	110	2,300	800	990	4,500	ND<100, TBA ND<1,000
12/18/2003	13,000,d	33,000	38	2,100	770	1,800	4,400	ND<5 TBA ND<50
9/18/2003	15,000,a,d	32,000	52	2,200	620	1,800	3,800	ND<17, TBA ND<170
6/26/2003	67,000,a,d	45,000	ND<50	2,100	720	2,300	5,500	ND
3/18/2003	7,300,a,d	33,000	ND<50	2,400	900	1,600	1,000	ND ND
12/21/2002	11,000,a,d	32,000	ND<100	2,600	980	2,200	5,500	ND ND
9/10/2002	18,000,c	31,000	ND<250		650	1,700	4,800	NA NA
3/30/2002	12,000,e	99,000	ND<230	2,200 4,100	1,200	2,500	6,400	NA NA
12/22/2001	22,000,a,d	60,000	ND	3,200	1,900	2,000	6,200	NA NA
9/23/2001	16,000,a,c	49,000	ND	4,000	1,400	2,200	6,200	NA NA
6/22/2001	85,000,a,d	35,000	ND	3,100	750	1,200	4,000	NA NA
4/22/2001	16,000,a	43,000	ND	3,600	1,200	1,600	5,800	NA NA
12/14/2000	11,000,a,e	49,000	ND	5,800	1,600	2,000	6,900	NA NA
9/18/2000	15,000,a,d	86,000	ND	7,200	2,000	3,200	13,000	NA NA
6/8/2000	6,500,a,c	50,000	ND	5,700	1,500	1,800	7,000	NA NA
3/9/2000	7,400,a,d	48,000	ND	5,300	3,100	1,600	8,100	NA NA
12/9/1999	12,000,a,d	65,000	ND	9,300	2,900	2,200	8,800	NA NA
8/31/1999	22,000,d	66,000	710	8,700	2,700	2,400	10,000	NA NA
4/29/1999	22,000,d	48,000	ND	8,400	2,800	2,000	8,100	NA NA
1/29/1999	9,100,d	47,000	ND	9,000	2,900	1,900	8,000	NA NA
4/26/1998	7,800,c	60,000	ND	9,300	5,700	2,100	9,100	NA NA
1/24/1998	24,000,d	57,000	ND	6,900	5,500	2,000	8,700	NA NA
11/6/1997	17,000,c	63,000	ND	7,400	6,700	2,300	9,900	NA NA
7/27/1997	28,000,c	66,000	1,800	8,600	8,100	2,200	10,000	NA NA
4/25/1997	170,000,d	77,000	ND	7,400	7,900	2,100	9,800	NA NA
1/21/1997	57,000,c	80,000	250	7,800	8,300	1,900	8,900	NA NA
7/26/1996	11,000,c	76,000	ND	11,000	13,000	2,400	10,000	NA NA
4/23/1996	5,700,c	73,000	ND	8,600	12,000	2,200	9,800	NA NA
1/29/1996	6,600,c	81,000	250	7,600	13,000	1,900	8,900	NA NA
10/26/1995	62,000,c	89,000	ND	7,800	12,000	2,400	11,000	NA NA
7/28/1995	2,000,c	35,000	NA	3,800	8,700	1,100	6,500	NA
5/2/1995	6,500,c	86,000	NA	8,900	14,000	2,300	11,000	NA NA
2/24/1995	9,100	90,000	NA	7,500	12,000	1,500	11,000	NA NA
11/18/1994	10,000	96,000	NA	9,300	14,000	2,500	11,000	NA NA
8/22/1994	8,300	100,000	NA	9,000	11,000	2,100	9,400	NA
5/19/1994	30,000	100,000	NA	12,000	14,000	3,500	17,000	NA NA
2/28/1994	110,000	90,000	NA	11,000	9,600	2,100	9,900	NA NA
11/24/1993	8,200	66,000	NA	8,300	8,900	2,000	121,000	NA NA
8/30/1993	9,400	77,000	NA	6,400	11,000	2,200	12,000	NA NA
5/18/1993	30,000	92,000	NA	4,000	11,000	2,500	15,000	NA NA
	14,000	100,000	NA	4,500	11,000	2,100	12,000	NA NA
2/23/1993		120,000	NA	5,800	10,000	2,100	13,000	NA NA
	4,400			1		2,300	15,000	
11/13/1992	4,400 11,000	l	NA	8,800	16,000			NA NA
11/13/1992 5/27/1992	11,000	120,000	NA NA	8,800 7,300	16,000 8,700			NA NA
11/13/1992 5/27/1992 1/24/1992	11,000 19,000	l	NA NA NA	7,300	8,700 7,300	1,300	8,900	NA NA NA
11/13/1992 5/27/1992 1/24/1992 12/23/1991	11,000 19,000 34,000	120,000 39,000 78,000	NA NA	7,300 9,300	8,700 7,300	1,300	8,900 13,000	NA NA
11/13/1992 5/27/1992 1/24/1992	11,000 19,000	120,000 39,000	NA	7,300	8,700	1,300	8,900	NA

1								
MW1 (Cont.)	TPH-D	TPH-G	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Other Fuel Additives by 8260*
9/17/1991	19,000	39,000	NA	4,900	4,100	1,200	5,900	NA NA
8/19/1991 7/20/1991	47,000 49,000	48,000 100,000	NA NA	13,000	8,400 14,000	990 2,300	29,000 17,000	NA NA
6/20/1991	42,000	76,000	NA	4,700	7,100	1,500	9,800	NA NA
5/17/1991	26,000	72,000	NA	7,700	9,900	ND	11,000	NA NA
4/15/1991	NA	56,000	NA	6,500	8,500	410	9,900	NA NA
3/21/1991	NA	36,000	NA	4,500	5,700	87	7,300	NA NA
2/15/1991 1/15/1991	NA NA	120,000 33,000	NA NA	7,400 3,900	6,600 2,900	ND 210	13,000 5,300	NA NA
9/27/1990	NA NA	28,000	NA NA	3,700	3,500	10	6,500	NA NA
8/23/1990	NA	40,000	NA	5,100	4,900	350	6,000	NA NA
7/20/1990	44,000	NA	NA	5,100	4,200	ND	9,100	NA NA
3/19/1990	NA	40,000	NA	3,700	1,100	ND	3,300	NA NA
02/20/90**	NA	7,600	NA	1,600	ND	ND	1,300	NA NA
MW2 2/7/1996						MW2 Destroye	d	
1/29/1996	4,600,c	38,000	7.1	1,900	5,700	1,100	5,900	NA NA
10/26/1995	900,000	74,000	ND	2,900	5,900	2,000	10,000	NA NA
7/28/1995	2,000,c	15,000	NA	1,400	2,300	620	3,200	NA NA
5/2/1995	6,600,d	55,000	NA	3,300	10,000	1,800	10,000	NA NA
2/24/1995	22,000 5.000	67,000 86,000	NA NA	4,900 11,000	11,000	1,800	11,000	NA NA
8/22/1994	5,000 4,100	91,000	NA NA	10,000	17,000	1,800	9,000	NA NA
5/19/1994	5,800	62,000	NA NA	92,000	13,000	1,300	8,400	NA NA
2/28/1994	13,000	91,000	NA	13,000	16,000	1,500	9,000	NA NA
11/24/1993	79,000	12,000	NA	13,000	17,000	2,500	17,000	NA NA
8/30/1993	110,000	110,000	NA	11,000	14,000	1,800	11,000	NA
5/18/1993	44,000	67,000	NA NA	9,200	12,000	1,400	9,300	NA NA
2/23/1993 11/13/1992	7,000 8,200	76,000 79,000	NA NA	12,000	17,000	1,600	9,600 8,600	NA NA
5/27/1992	130,000	89,000	NA	18,000	19,000	1,700	14,000	NA NA
1/14/1992	1,600,000	59,000	NA	17,000	14,000	1,800	15,000	NA NA
12/23/1991	700,000	2,100,000	NA	36,000	130,000	79,000	560,000	NA NA
11/25/1991	130,000 360,000	230,000 85,000	NA NA	11,000 21,000	9,700	1,400 2,100	9,700 14,000	NA NA
	56,000		NA				14,000	NA NA
9/1//1991		74,000		10,000	11,000	1,400	8,100	NA NA
9/17/1991 8/19/1991	19,000	74,000 69,000	NA NA	10,000 26,000	11,000 22,000	1,400 2,100	8,100 18,000	NA NA
8/19/1991 7/20/1991 6/20/1991	19,000 100,000 69,000	69,000 51,000 87,000	NA NA NA	26,000 9,900 8,100	22,000 7,700 8,400	2,100 1,200 1,100	7,500 8,900	NA NA NA
8/19/1991 7/20/1991 6/20/1991 5/17/1991	19,000 100,000 69,000 33,000	69,000 51,000 87,000 62,000	NA NA NA	9,900 8,100 5,900	22,000 7,700 8,400 6,300	2,100 1,200 1,100 1,200	18,000 7,500 8,900 9,000	NA NA NA NA NA
8/19/1991 7/20/1991 6/20/1991	19,000 100,000 69,000 33,000 NA	69,000 51,000 87,000 62,000 82,000	NA NA NA NA	26,000 9,900 8,100 5,900 5,300	22,000 7,700 8,400 6,300 7,400	2,100 1,200 1,100	18,000 7,500 8,900 9,000 9,400	NA NA NA NA NA NA
8/19/1991 7/20/1991 6/20/1991 5/17/1991 4/15/1991	19,000 100,000 69,000 33,000	69,000 51,000 87,000 62,000	NA NA NA	9,900 8,100 5,900	22,000 7,700 8,400 6,300	2,100 1,200 1,100 1,200 1,000	18,000 7,500 8,900 9,000	NA NA NA NA NA
8/19/1991 7/20/1991 6/20/1991 5/17/1991 4/15/1991 3/21/1991	19,000 100,000 69,000 33,000 NA NA	69,000 51,000 87,000 62,000 82,000	NA NA NA NA NA NA NA	26,000 9,900 8,100 5,900 5,300 9,300	22,000 7,700 8,400 6,300 7,400	2,100 1,200 1,100 1,200 1,000 350	18,000 7,500 8,900 9,000 9,400 9,700	NA NA NA NA NA NA NA NA
8/19/1991 7/20/1991 6/20/1991 5/17/1991 4/15/1991 3/21/1991 2/15/1991	19,000 100,000 69,000 33,000 NA NA NA NA	69,000 \$1,000 87,000 62,000 82,000 62,000 200,000 78,000 59,000	NA	26,000 9,900 8,100 5,900 5,300 9,300 12,000 11,000 8,400	22,000 7,700 8,400 6,300 7,400 11,000 12,000 8,700	2,100 1,200 1,100 1,100 1,200 1,000 350 1,700 580 880	18,000 7,500 8,900 9,000 9,400 9,700 14,000	NA NA NA NA NA NA NA NA NA NA
8/19/1991 7/20/1991 6/20/1991 5/17/1991 4/15/1991 4/15/1991 2/15/1991 1/14/1991 9/27/1990 8/23/1990	19,000 100,000 69,000 33,000 NA NA NA NA NA NA	69,000 \$1,000 \$7,000 62,000 82,000 62,000 200,000 78,000 \$9,000	NA	26,000 9,900 8,100 5,900 5,300 9,300 12,000 11,000 8,400 8,100	22,000 7,700 8,400 6,300 7,400 11,000 12,000 8,700 12,000 8,400	2,100 1,200 1,100 1,200 1,200 1,000 350 1,700 580 880	18,000 7,500 8,900 9,000 9,400 9,700 14,000 8,000 9,000 8,600	NA NA NA NA NA NA NA NA NA NA
819/1991 720/1991 620/1991 5/17/1991 4/15/1991 3/21/1991 2/15/1991 1/4/1991 9/27/1990 8/23/1990	19,000 100,000 69,000 33,000 NA NA NA NA NA NA	69,000 \$1,000 \$7,000 62,000 82,000 62,000 200,000 78,000 59,000 NA	NA N	26,000 9,900 8,100 5,900 5,300 9,300 12,000 11,000 8,400 8,100 9,100	22,000 7,700 8,400 6,300 7,400 11,000 12,000 8,700 12,000 8,400 14,000	2,100 1,200 1,100 1,100 1,200 1,000 1,000 350 1,700 580 880 1,500	18,000 7,500 8,900 9,000 9,400 9,700 14,000 8,000 9,000 8,600 13,000	NA NA NA NA NA NA NA NA NA NA
8/19/1991 7/20/1991 6/20/1991 5/17/1991 4/15/1991 4/15/1991 2/15/1991 1/14/1991 9/27/1990 8/23/1990	19,000 100,000 69,000 33,000 NA NA NA NA NA NA	69,000 \$1,000 \$7,000 62,000 82,000 62,000 200,000 78,000 \$9,000	NA N	26,000 9,900 8,100 5,900 5,300 9,300 12,000 11,000 8,400 8,100	22,000 7,700 8,400 6,300 7,400 11,000 12,000 8,700 12,000 8,400	2,100 1,200 1,100 1,100 1,200 1,000 1,000 350 1,700 580 880 1,500 940 75	18,000 7,500 8,900 9,000 9,400 9,700 14,000 8,000 9,000 8,600	NA NA NA NA NA NA NA NA NA NA
8191991 7/201991 6/201991 517:1991 415:1991 2215:1991 114:1991 9/27:1990 8/23:1990 3/30:1990	19,000 100,000 69,000 33,000 NA	69,000 51,000 87,000 62,000 82,000 62,000 200,000 78,000 59,000 NA 50,000	NA N	26,000 9,500 8,100 5,500 5,300 9,300 12,000 11,000 8,400 8,100 9,100 7,700	22,000 7,700 8,400 6,300 7,400 112,000 8,700 12,000 14,000 8,700	2,100 1,200 1,100 1,100 1,200 1,000 1,000 350 1,700 580 880 1,500	18,000 7,500 8,500 9,000 9,400 9,700 14,000 8,000 9,000 8,600 13,000 5,600	NA NA NA NA NA NA NA NA NA NA
8191991 7/201991 0/201991 51771991 4/151991 3/21/1991 1/4/1991 9/27/1990 8/23/1990 7/201990 3/19/1990	19,000 100,000 69,000 33,000 NA	69,000 51,000 87,000 62,000 82,000 62,000 200,000 78,000 59,000 NA 50,000	NA N	26,000 9,500 8,100 5,500 5,300 9,300 12,000 11,000 8,400 8,100 9,100 7,700	22,000 7,700 8,400 6,300 7,400 11,000 12,000 8,700 12,000 14,000 14,000 8,700 3,100 ND-500	2,100 1,200 1,100 1,100 1,200 1,000 1,000 350 1,700 580 880 1,500 940 75	18,000 7,500 8,500 9,000 9,400 9,700 14,000 8,000 9,000 8,600 13,000 5,600	NA NA NA NA NA NA NA NA NA NA
879-7991 7/20 1991 6/20 1991 6/20 1991 5/17/1991 415/1991 2/15/1991 1/14/1991 9/27/1990 8/2/1990 7/20 1990 1/14/1991 2/20 999** MW3 7/20 2011	19,000 100,000 69,000 33,000 NA A 4,000 NA	69,000 \$1,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$78,000 \$9,000 NA \$50,000 \$3,000 \$3,000 \$4,000	NA N	26,000 9,900 8,100 5,900 5,300 9,300 11,000 8,400 9,100 7,700 7,300 11,000	22,000 7,700 8,400 6,500 7,400 11,000 12,000 8,700 12,000 8,400 14,000 8,700 ND-500 ND-500	2,100 1,200 1,100 1,100 1,200 1,200 1,000 580 580 580 1,700 580 580 1,500 580 575 75 75 75 75 75	18,000 7,500 8,500 9,000 9,000 14,000 8,000 14,000 8,000 15,000 15,000 15,000 ND-500 940	NA NA NA NA NA NA NA NA NA NA
8191991 7/201991 0/201991 5171799 5171799 4151991 2151991 11441991 9271790 8221990 379190 22050** MW3 7/202011 7/272010	19,000 100,000 69,000 33,000 NA	69,000 \$1,000 \$7,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$3,000 NA NA \$3,000 \$3,000 \$4,000 \$3,000	NA N	26,000 9,500 8,100 5,500 5,500 12,000 11,000 8,400 8,100 9,100 7,700 7,700 17,000 17,000 17,000 27,000	22,000 7,700 8,400 6,300 7,400 11,000 12,000 8,700 12,000 8,400 14,000 8,700 ND-500 ND-500 ND-500	2,100 1,200 1,100 1,100 1,200 1,200 1,200 580 1,700 580 940 75 75 75 520 ND-500 750	18,000 7,500 8,500 9,000 9,000 9,700 14,000 8,000 9,000 13,000 13,000 5,000 6,300 ND-500 940	NA NA NA NA NA NA NA NA NA NA
879-7991 7/20 1991 6/20 1991 6/20 1991 5/17/1991 415/1991 2/15/1991 1/14/1991 9/27/1990 8/2/1990 7/20 1990 1/14/1991 2/20 999** MW3 7/20 2011	19,000 100,000 69,000 33,000 NA A 4,000 NA	69,000 \$1,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$78,000 \$9,000 NA \$50,000 \$3,000 \$3,000 \$4,000	NA N	26,000 9,900 8,100 5,900 5,300 9,300 11,000 8,400 9,100 7,700 7,300 11,000	22,000 7,700 8,400 6,500 7,400 11,000 12,000 8,700 12,000 8,400 14,000 8,700 ND-500 ND-500	2,100 1,200 1,100 1,100 1,200 1,200 1,000 580 580 580 1,700 580 580 1,500 580 75 75 75 75 75 75	18,000 7,500 8,500 9,000 9,000 14,000 8,000 14,000 8,000 15,000 15,000 15,000 ND-500 940	NA NA NA NA NA NA NA NA NA NA
8191991 7201991 0201991 0201991 51771991 4151991 3211991 2151991 11441991 9271990 8231990 27001990 3791990 270099** MW3 7202011 25152011 7272010	19,000 100,000 69,000 33,000 NA NA NA NA NA NA NA NA NA 1000 NA	69,000 \$1,000 \$7,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$3,000 \$4,000 \$3,000 \$4,000 \$4,000 \$3,000	NA N	26,000 9,300 8,100 5,500 5,500 9,200 11,000 8,400 8,100 9,100 7,700 7,300 17,000 17,000 27,000 27,000	22,000 7,700 8,400 8,400 11,000 11,000 112,000 8,700 12,000 8,700 14,000 14,000 ND-500 ND-500 ND-500 ND-500 ND-500	2,100 1,200 1,100 1,100 1,100 1,000 1,000 1,000 580 1,700 580 880 1,500 75 75 520 ND-500 750	18,000 7,500 8,500 9,000 9,000 14,000 8,000 13,000 13,000 5,600 ND-500 940 1,600	NA NA NA NA NA NA NA NA NA NA
819-1991 7/201991 6/201991 5/17/1991 4/15/1991 4/15/1991 4/15/1991 1/14/1991 9/27/1990 8/23/1990 8/23/1990 8/23/1990 1/16/20/1990	19,000 100,000 69,000 33,000 NA NA NA NA NA NA NA SO NA NA NA 10,000 NA	69,000 \$1,000 \$7,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$3,000 \$4,000 \$3,000 \$4,000	NA N	26,000 9,000 8,100 5,900 5,900 12,000 11,000 8,100 9,100 9,100 7,700 7,300 17,000 17,000 27,000 27,000 33,000 33,000 37,000 28,000	22,000 7,700 8,400 6,300 7,400 11,000 12,000 12,000 8,700 14,000 8,700 14,000 ND-500	2,100 1,200 1,100 1,100 1,100 1,200 1,100 350 1,700 580 880 1,700 940 75 75 75 80 ND-500 ND-500 ND-1000 ND-1000 2,400 1,300	18,000 7,500 8,900 9,000 9,000 14,000 9,000 18,000 9,000 8,000 15,000 9,000 11,000 9,000 11,000 9,000 11,000 9,000 11,000 9,000 11,000 9,0	NA NA NA NA NA NA NA NA NA NA
8:19:1991 7:201991 6:201991 5:77:1991 4:15:1991 3:21:1991 2:15:1991 1:14:1991 9:27:1990 8:22:1990 7:20:1990 2:20:90** MW3 7:20:2011 7:27:2010 1:28:2010 1:28:2010 1:7:2009 1:7:2009 1:7:2009 1:7:2009 1:7:2009 1:7:2009 1:7:2009	19,000 100,000 69,000 33,000 NA NA NA NA NA NA NA NA 10,000 NA	69,000 \$1,000 \$7,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$3,000 \$3,000 \$3,000 \$40,000, a \$40,000, a \$3,000 \$40,000, a \$40,000, a \$40,000, a \$40,000, a	NA N	26,000 9,900 8,100 5,500 9,300 12,000 11,000 8,400 9,100 7,700 7,300 17,000 17,000 27,000 27,000 33,000 28,000	22,000 7,700 8,400 7,700 8,400 11,000 11,000 11,000 12,000 8,700 12,000 8,700 14,000 8,700 ND-500	2,100 1,200 1,100 1,100 1,200 1,200 350 1,700 580 580 580 580 580 580 580 580 580 5	18,000 7,500 8,500 9,000 9,000 14,000 9,700 14,000 8,000 13,000 5,000 6,300 ND-500 940 1,000 1,000 2,000 1,000 8,000 1,0	NA NA NA NA NA NA NA NA NA NA
8797991 7/201991 7/201991 6/201991 5/17/1991 4/15/1991 3/21/1991 2/15/1991 1/14/1991 9/27/1990 8/25/1990 7/201990 2/2099** MW3 7/20/2011 7/27/2010 1/28/2010 1/28/2010 1/28/2010 1/28/2010 1/28/2010 1/28/2010 1/28/2010 1/28/2010 1/28/2010 1/28/2010 1/28/2010 1/28/2010	19,000 100,000 69,000 33,000 NA NA NA NA NA NA NA S6,000 NA 10,000 NA	69,000 \$1,000 \$7,000 \$7,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$3,000 \$3,000 \$3,000 \$4,000, a \$4,000, a \$2,000 \$5,000, a \$4,000, a \$2,000 \$5,000, a \$5,000, a	NA N	26,000 9,900 8,100 5,500 9,500 11,000 11,000 8,100 9,100 7,700 7,700 17,000 27,000 27,000 27,000 33,000 37,000 27,000	7,700 8,400 8,400 11,000 11,000 11,000 12,000 8,700 12,000 8,700 14,000 8,700 14,000 ND-500	2,100 1,200 1,200 1,100 1,200 1,100 1,000	18,000 7,500 8,500 9,000 9,000 14,000 8,000 13,000 13,000 14,000 ND-500 ND-500 14,000 2,000 1,00	NA NA NA NA NA NA NA NA NA NA
8:19:1991 7:201991 6:201991 5:77:1991 4:15:1991 3:21:1991 2:15:1991 1:14:1991 9:27:1990 8:22:1990 7:20:1990 2:20:90** MW3 7:20:2011 7:27:2010 1:28:2010 1:28:2010 1:7:2009 1:7:2009 1:7:2009 1:7:2009 1:7:2009 1:7:2009 1:7:2009	19,000 100,000 69,000 33,000 NA NA NA NA NA NA NA 1000 NA NA 1000 NA NA 110,000 NA NA 110,000 NA 11	69,000 \$1,000 \$7,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$3,000 \$3,000 \$3,000 \$4,000, a \$4,000, a \$2,000, a \$2,000, a \$2,000, a	NA N	26,000 9,000 8,100 5,000 12,000 11,000 11,000 7,700 7,700 17,000 27,000	7,700 8,400 8,400 8,400 11,000 11,000 11,000 8,700 12,000 8,700 14,000 8,700 14,000 8,700 ND-500	2,100 1,200 1,200 1,100 1,200 1,100 1,000 1,000 1,700 580 580 580 1,700 580 75 75 75 1,500 ND-500 ND-500 ND-500 ND-500 ND-500 ND-500	18,000 7,500 8,500 9,000 9,000 14,000 8,000 9,000 13,000 8,000 8,000 13,000 14,000 1	NA NA NA NA NA NA NA NA NA NA
8797991 7201991 7201991 6201991 43751991 43751991 32751991 13431991 27531991 13431991 27531990 3791990 3791990 3791990 2703990** MW3 7202011 2752010 1282010 10102009 782009 1772006 10232008 77172008	19,000 100,000 69,000 33,000 NA NA NA NA NA NA NA S6,000 NA 10,000 NA	69,000 \$1,000 \$7,000 \$7,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$3,000 \$3,000 \$3,000 \$4,000, a \$4,000, a \$2,000 \$5,000, a \$4,000, a \$2,000 \$5,000, a \$5,000, a	NA N	26,000 9,900 8,100 5,500 9,500 11,000 11,000 8,100 9,100 7,700 7,700 17,000 27,000 27,000 27,000 33,000 37,000 27,000	7,700 8,400 8,400 11,000 11,000 11,000 12,000 8,700 12,000 8,700 14,000 8,700 14,000 ND-500	2,100 1,200 1,200 1,100 1,200 1,100 1,000	18,000 7,500 8,500 9,000 9,000 14,000 8,000 13,000 13,000 14,000 ND-500 ND-500 14,000 2,000 1,00	NA NA NA NA NA NA NA NA NA NA
87197991 7/201991 6/201991 6/201991 4/151991 3/21/1991 1/151991 1/151991 1/151991 1/151991 1/151991 1/151991 1/151991 1/151990 1/152909 1/152909 1/152909 1/152909 1/152908 1/152908 1/152908	19,000 100,000 69,000 33,000 NA NA NA NA NA NA NA NA 10,000 10,000 10,000 11,00	69,000 \$1,000 \$1,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$30,000 \$40	NA N	26,000 9,000 8,100 9,500 9,500 12,000 11,000 11,000 7,700 7,700 117,000 117,000 27,000 27,000 27,000 27,000 27,000 28,000 28,000 28,000 28,000 28,000 28,000 24,000 24,000 34,000	7,700 8,400 7,700 8,400 11,000 11,000 12,000 8,700 12,000 8,700 14,000 8,700 14,000 ND-500	2,100 1,200 1,200 1,100 1,200 1,100 1,200 350 1,700 580 880 1,700 580 75 75 75 75 1,500 ND-500 ND-1,000 1,000 ND-500	18,000 7,500 8,000 9,000 9,000 14,000 9,000 14,000 8,000 9,000 1,0	NA NA NA NA NA NA NA NA NA NA
8:19:1991 7:201991 4:0201991 5:717:1991 4:15:1991 3:21:1991 3:21:1991 1:14:1991 9:27:1990 8:22:1990 7:20:1990 3:79:1990 2:20:9990 3:79:1990 1:24:20:990 1:28:20:10 1:28:20	19,000 100,000 69,000 33,000 NA NA NA NA NA NA NA NA S6,000 NA NA 13,000, d 10,000, d 115,000, d	69,000 51,000 51,000 52,	NA N	26,000 9,000 8,100 5,500 9,300 11,000 11,000 11,000 7,700 7,700 17,000 17,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 28,000 24,000 24,000 24,000 24,000 24,000 24,000 23,000 23,000 23,000 23,000 23,000	7,700 8,400 8,400 11,000 11,000 11,000 12,000 8,700 12,000 8,700 12,000 8,700 14,000 14,000 ND-500	2,100 1,200 1,100 1,100 1,200 1,100 350 1,700 580 880 1,700 940 75 75 75 75 ND-500 ND-1,000 ND-1,000 ND-500	18,000 7,500 8,500 9,000 9,000 14,000 9,700 14,000 8,000 13,000 5,000 13,000 14,000 13,000 5,000 14,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000	NA NA NA NA NA NA NA NA NA NA
8.19.1991 7.20.1991 4.0.20.1991 4.15.1991 3.21.1991 3.21.1991 3.21.1991 1.14.1991 9.27.1999 1.20.1990 3.79.1990 3.79.1990 3.79.1990 1.79.20.1990 1.77.20.1	19,000 100,000 69,000 33,000 NA NA NA NA NA NA NA NA 1000 100,	69,000 67,	NA N	26,000 9,000 8,100 5,500 9,300 12,000 11,000 11,000 7,700 7,300 17,000 27,000 27,000 27,000 27,000 27,000 27,000 27,000 28,000 24,000 24,000 24,000 24,000 11,000 23,000 23,000 23,000 23,000 23,000 23,000 23,000 23,000 23,000 23,000 23,000 23,000 23,000 23,000	7,700 8,400 7,700 8,400 11,000 11,000 11,000 8,700 12,000 8,700 14,000 8,700 14,000 ND-500	2,100 1,200 1,200 1,100 1,200 1,100 1,000 1,000 1,700 1,700 1,700 1,000	18,000 7,500 8,500 9,000 9,000 14,000 8,000 13,000 13,000 13,000 13,000 14,000 13,000 15,000	NA NA NA NA NA NA NA NA NA NA
8/19/1991 7/20/1991 6/20/1991 6/20/1991 4/15/1991 3/21/1991 2/15/1991 1/14/1991 9/27/1990 8/23/1990 8/23/1990 3/19/1990 2/20/1990 3/19/1990 2/20/1990 1/20/20/1990	19,000 100,000 69,000 33,000 NA 1000 100,00	69,000 87,000 87,000 87,000 82,000 82,000 82,000 82,000 82,000 83,000 84,000 84,000 84,000 85,000 85,000 86,000 86,000 86,000 87,000 87,000 88,	NA N	26,000 9,000 8,100 9,500 12,000 11,000 11,000 7,700 7,700 7,700 17,000 27,000 27,000 27,000 24,000 24,000 24,000 24,000 24,000 24,000 24,000 24,000 24,000 24,000 24,000 25,000 23,000	7,700 8,400 7,700 8,400 11,000 11,000 11,000 8,700 12,000 8,700 12,000 8,700 14,000 8,700 14,000 8,700 ND-500	2,100 1,200 1,200 1,100 1,200 1,100 1,000 1,700 580 580 1,700 580 1,500 1,500 75 75 1,500 ND-500 ND-1,000 ND-500	18,000 7,500 8,500 9,000 9,000 9,700 14,000 9,000 14,000 8,000 8,000 13,000 8,000 13,000 14,000 13,000 14,000 14,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000	NA NA NA NA NA NA NA NA NA NA
879/1991 7/201991 6/201991 6/201991 6/201991 4/15/1991 3/21/1991 2/15/1991 1/14/1991 9/27/1990 3/19/1990 3/19/1990 2/20/900 3/19/1990 2/20/900 3/19/1990 1/20/900 1/20/900 1/2/2	19,000 100,000 69,000 33,000 NA 13,000 10,000 10,000 10,000 10,000 11,000	69,000 87,000 87,000 87,000 82,000 82,000 82,000 82,000 99,000 99,000 99,000 99,000 99,000 83,000 84,000 84,000 85,000 85,000 85,000 85,000 87,	NA N	26,000 9,500 8,100 5,500 9,500 12,000 11,000 11,000 7,700 7,700 17,000 27,000 27,000 27,000 27,000 24,000 24,000 24,000 24,000 24,000 24,000 24,000 24,000 24,000 24,000 25,000 26,000 27,000 27,000 28,000 38,0	7,700 8,400 7,700 8,400 11,000 112,000 12,000 12,000 14,000 8,700 14,000 14,000 ND-500	2,100 1,200 1,100 1,100 1,100 1,000 1,700 580 880 1,700 580 1,500 75 75 75 75 1,000 ND-1,000 ND-1,000 ND-200 ND-500	18,000 7,500 8,900 9,000 14,000 9,000 14,000 8,000 13,000 1,	NA NA NA NA NA NA NA NA NA NA
8/19/1991 7/20/1991 6/20/1991 6/20/1991 4/15/1991 3/21/1991 2/15/1991 1/14/1991 9/27/1990 8/23/1990 8/23/1990 3/19/1990 2/20/1990 3/19/1990 2/20/1990 1/20/20/1990	19,000 100,000 69,000 33,000 NA 1000 100,00	69,000 87,000 87,000 87,000 82,000 82,000 82,000 82,000 82,000 83,000 84,000 84,000 84,000 85,000 85,000 86,000 86,000 86,000 87,000 87,000 88,	NA N	26,000 9,000 8,100 9,500 12,000 11,000 11,000 7,700 7,700 7,700 17,000 27,000 27,000 27,000 24,000 24,000 24,000 24,000 24,000 24,000 24,000 24,000 24,000 24,000 24,000 25,000 23,000	7,700 8,400 7,700 8,400 11,000 11,000 11,000 8,700 12,000 8,700 12,000 8,700 14,000 8,700 14,000 8,700 ND-500	2,100 1,200 1,200 1,100 1,200 1,100 1,000 1,700 580 580 1,700 580 1,500 1,500 75 75 1,500 ND-500 ND-1,000 ND-500	18,000 7,500 8,500 9,000 9,000 9,700 14,000 9,000 14,000 8,000 8,000 13,000 8,000 13,000 14,000 13,000 14,000 14,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000 15,000	NA NA NA NA NA NA NA NA NA NA
8/19/1991 7/20/1991 6/20/1991 6/20/1991 5/17/1991 4/15/1991 3/21/1991 2/15/1991 1/14/1991 1/14/1991 1/14/1991 1/14/1991 1/14/1991 1/14/1991 1/14/1991 1/14/1991 1/14/1991 1/14/1991 1/14/1991 1/14/1991 1/14/1991 1/14/1991 1/14/1991 1/14/1991 1/14/1990 1/14/1	19,000 100,000 69,000 33,000 NA 16,000 NA NA 15,000 A 15,	69,000 \$1,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$2,000 \$3,000 \$4,000 \$3,000 \$4,000	NA N	26,000 9,000 8,100 5,500 9,300 12,000 11,000 8,400 9,100 7,700 7,300 17,000 17,000 27,000 27,000 28,000 38,000	22,000 7,700 8,400 7,700 8,400 11,000 11,000 11,000 12,000 8,700 12,000 8,700 14,000 8,700 14,000 ND-500	2,100 1,200 1,100 1,200 1,100 1,200 1,200 1,200 1,200 1,200 1,200 ND-1,000 ND-2,00 ND-	18,000 7,500 8,500 9,000 14,000 9,700 14,000 9,700 14,000 9,000 13,000 9,000 13,000 9,000 14,000 9,000 1,000	NA NA NA NA NA NA NA NA NA NA
8797991 7201991 40201991 4151991 3217991 3217991 11447991 2751991 11447991 92751990 8221990 7201990 3791990 220599** MW3 7202011 22152011 7272010 11782010 10 120209 1772008 416 2008 1172008 1172008 10 12007 77252007 1182007 1182007 1182007 1182007 1182007 1182007	19,000 100,000 69,000 33,000 NA S6,000 NA NA NA 1,000,d 10,000,a,d 1,000,a,d 1,	69,000 69,000 69,000 69,000 62,	NA N	26,000 9,000 8,100 5,500 9,700 11,000 11,000 11,000 7,700 7,700 17,000 17,000 27,000 27,000 27,000 24,000 24,000 24,000 24,000 24,000 24,000 25,000 25,000 25,000 25,000 26,000 27,000 28,000	7,700 8,400 7,700 8,400 11,000 11,000 11,000 11,000 8,700 11,000 8,700 11,000 8,700 11,000 8,700 11,000 8,700 11,000 8,700 11,000	2,100 1,200 1,100 1,200 1,100 1,200 1,200 1,200 350 1,200 580 580 880 1,200 940 75 75 75 75 75 80 ND-500 ND-1,000 ND-1,000 ND-1,000 ND-500 ND-1,000 ND-500	18,000 7,500 8,500 9,000 14,000 9,700 14,000 8,000 13,000 5,000 13,000 14,000 15,000 11,000 11,000	NA NA NA NA NA NA NA NA NA NA
8797991 7201991 7201991 40201991 57771991 37217991 37217991 17447991 37217991 17447991 97271990 57201990 37971990 37971990 17201990 17201990 17201990 17201990 17202011 17272010 10162009 1772008 4162008 1772008 10162007 17472008 10162007 17472008 10162007 17472008 11742009	19,000 100,000 69,000 33,000 NA 1000 100,000 100,000 100,000 110,00	69,000 69,000 67,	NA N	26,000 9,000 8,100 5,500 9,300 12,000 11,000 8,400 7,700 7,700 17,000 17,000 27,000 27,000 27,000 27,000 28,000 24,000 24,000 24,000 24,000 24,000 24,000 24,000 24,000 24,000 24,000 24,000 24,000 24,000 24,000 24,000 24,000 34,000 25,000 26,000 26,000 27,000 36,000 28,000 28,000 28,000 28,000 28,000 28,000 28,000 28,000 28,000 28,000 28,000 28,000 28,000 28,000 28,000 38,000 38,000 38,000 38,000 38,000 38,000 38,000 38,000 38,000	7,700 8,400 8,400 11,000 11,000 11,000 12,000 8,700 12,000 8,700 12,000 8,700 12,000 8,700 12,000 8,700 12,000 12,000 ND-500	2,100 1,200 1,200 1,100 1,200 1,100 1,000	18,000 7,500 8,500 9,000 14,000 9,700 14,000 8,000 13,000 5,000 10,000 1	NA NA NA NA NA NA NA NA NA NA

Date			1					
	TPH-D	трн-G	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Other Fuel Additives by 8260*
MW3 (Cont.)								
7/13/2004	57,000,a,d	98,000,a	15,000	28,000	2,900	1,700	8,900	ND<500, except TBA = 11,000
4/6/2004	32,000,a,d	81,000,a	17,000	34,000	5,900	1,500	9,900	ND<500, except TBA = 8,800
12/18/2003	32,000,a,d	130,000,a	32,000	33,000	5,400	720	11,000	ND<500, except TBA = 17,000
9/18/2003	140,000,a,d 27,000,a,d	130,000 96,000	23,000	34,000 29,000	11,000 5,200	2,500	14,000	ND<500, except TBA = 10,000 ND, except TBA = 8,900
3/18/2003	27,000,a,c 11,000,a,d	120,000	16,000	36,000	12,000	1,800	2,400	ND, except TBA = 8,900 ND, except TBA = 5,100
12/21/2002	21,000,a,d	110,000	33,000	34,000	9,300	2,000	13,000	ND, except TBA = 14,000
9/10/2002	43,000,d	70,000	19,000	21,000	2,200	1,600	7,600	NA NA
3/30/2002	8,500,a,d	170,000	26,000	40,000	17,000	2,600	16,000	NA NA
12/22/2001	9,200,a,d	140,000	27,000	37,000	20,000	2,600	15,000	NA NA
9/23/2001	47,000,a,d	130,000	26,000	32,000	9,100	2,400	12,000	NA
6/22/2001	33,000,a,d	110,000	25,000	31,000	7,200	1,900	11,000	NA NA
4/22/2001	61,000,a	140,000	24,000	25,000	5,400	1,700	11,000	NA NA
12/14/2000	120,000,a,d	140,000	35,000	37,000	16,000	2,400	15,000	NA NA
9/18/2000	43,000,a,d	130,000	33,000	39,000	91,000	2,300	14,000	NA NA
7/26/2000 6/8/2000	NA 74,000,a,d	NA 130000	21,000	NA 41000	NA 16000	NA 1900	NA 13000	ND***, except tert-butanol = 19,000 NA
3/9/2000	74,000,a,c	180,000	24,000	39,000	22,000	2,500	16,000	NA NA
12/9/1999	17,000,a,d	120,000	16,000	35,000	6,700	2,400	12,000	NA NA
8/31/1999	22,000,d	120,000	4,700	35,000	3,700	2,400	14,000	NA NA
4/29/1999	48,000,d	100,000	2,500	33,000	8,000	2,100	14,000	NA NA
1/29/1999	240,000,d	84,000	1,300	31,000	2,800	1,800	12,000	NA NA
4/26/1998	380,000,d	100,000	9,700	29,000	7,100	1,800	14,000	NA
1/24/1998	77,000,d	97,000	ND	28,000	7,100	1,800	11,000	NA
11/6/1997	120,000,d	140,000	ND	37,000	19,000	2,400	14,000	NA NA
7/24/1997	91,000,c	120,000	1,400	33,000	17,000	2,200	12,000	NA NA
4/25/1997	760,000,d	240,000	1,600	24,000	18,000	4,100	24,000	NA NA
1/21/1997 7/26/1996	34,000,c 24,000,c	150,000	1,300	40,000	14,000 22,000	2,600	12,000	NA NA
4/23/1996	24,000,c 280,000,c	170,000	720	34,000	22,000	2,400	14,000	NA NA
1/29/1996	45,000,c	150,000	540	32,000	21,000	1,900	12,000	NA NA
10/26/1995	33,000	130,000	690	37,000	21,000	210	11,000	NA NA
7/28/1995	1,900,d	86,000	NA	1,400	2,300	620	3,200	NA NA
5/2/1995	9,700,d	170,000	NA	43,000	30,000	2,500	14,000	NA NA
2/24/1995	9,200	130,000	NA	31,000	19,000	1,800	10,000	NA NA
11/18/1994	23,000	140,000	NA	38,000	22,000	2,000	11,000	NA NA
7/22/1994	5,300	170,000	NA	35,000	20,000	1,800	10,000	NA NA
5/19/1994	30,000	150,000	NA	38,000	25,000	2,400	14,000	NA NA
2/28/1994 11/24/1993	210,000 24,000	110,000 160,000	NA NA	36,000 48,000	21,000	1,900 2,200	11,000	NA NA
7/30/1993	32,000	130,000	NA NA	36,000	21,000	1,900	8,200	NA NA
5/18/1993								
	7,200		NA	36,000	21,000	2,100	12,000	
2/23/1993	7,200 8,100	130,000	NA NA	36,000 31,000	21,000 18,000	2,100 1,900	12,000 11,000	NA NA
		130,000						NA NA
2/23/1993	8,100	130,000	NA	31,000	18,000	1,900	11,000	NA NA
2/23/1993 11/13/1992 5/27/1992 7/14/1992	8,100 4,700	130,000 110,000 140,000 370,000	NA NA	31,000 38,000	18,000 24,000	1,900 2,000	11,000	NA NA NA
2/23/1993 11/13/1992 5/27/1992 7/14/1992 12/23/1991	8,100 4,700 27,000 270,000 540,000	130,000 110,000 140,000 370,000 130,000 740,000	NA NA NA NA	31,000 38,000 91,000 76,000 30,000	18,000 24,000 57,000 30,000 61,000	1,900 2,000 3,000 3,400 31,000	11,000 12,000 21,000 21,000 180,000	NA NA NA NA NA NA NA NA NA
2/23/1993 11/13/1992 5/27/1992 7/14/1992 12/23/1991 11/25/1991	8,100 4,700 27,000 270,000 540,000 74,000	130,000 110,000 140,000 370,000 130,000 740,000	NA NA NA NA NA NA NA NA	31,000 38,000 91,000 76,000 30,000 65,000	18,000 24,000 57,000 30,000 61,000 31,000	1,900 2,000 3,000 3,400 31,000 3,400	11,000 12,000 21,000 21,000 180,000	NA
2/23/1993 11/13/1992 5/27/1992 7/14/1992 12/23/1991	8,100 4,700 27,000 270,000 540,000	130,000 110,000 140,000 370,000 130,000 740,000	NA NA NA NA	31,000 38,000 91,000 76,000 30,000	18,000 24,000 57,000 30,000 61,000	1,900 2,000 3,000 3,400 31,000	11,000 12,000 21,000 21,000 180,000	NA NA NA NA NA NA NA NA NA
2/23/1993 11/13/1992 5/27/1992 7/14/1992 12/23/1991 11/25/1991 10/10/1991 9/17/1991	8,100 4,700 27,000 270,000 540,000 74,000 39,000 140,000	130,000 110,000 140,000 370,000 130,000 740,000 150,000 140,000	NA	31,000 38,000 91,000 76,000 30,000 65,000 57,000 47,000	18,000 24,000 57,000 30,000 61,000 31,000 31,000 25,000	1,900 2,000 3,000 3,400 31,000 3,400 2,200 2,600	11,000 12,000 21,000 21,000 180,000 18,000 14,000 15,000	NA
2/23/1993 11/13/1992 5/27/1992 7/14/1992 12/23/1991 11/25/1991 10/10/1991	8,100 4,700 27,000 270,000 540,000 74,000	130,000 110,000 140,000 370,000 130,000 740,000	NA NA NA NA NA NA NA NA	31,000 38,000 91,000 76,000 30,000 65,000	18,000 24,000 57,000 30,000 61,000 31,000	1,900 2,000 3,000 3,400 31,000 3,400	11,000 12,000 21,000 21,000 180,000	NA
2/23/1993 11/13/1992 5/27/1992 7/14/1992 12/23/1991 11/25/1991 10/10/1991 9/17/1991 8/19/1991	8,100 4,700 27,000 270,000 540,000 74,000 39,000 140,000	130,000 110,000 140,000 370,000 130,000 740,000 150,000 140,000 180,000	NA	31,000 38,000 91,000 76,000 30,000 65,000 57,000 47,000	18,000 24,000 57,000 30,000 61,000 31,000 25,000 31,000	1,900 2,000 3,000 3,400 31,000 3,400 2,200 2,600 4,400	11,000 12,000 21,000 21,000 180,000 18,000 14,000 15,000 22,000	NA N
2/23/1993 11/13/1992 5/27/1992 7/14/1992 12/23/1991 11/25/1991 10/10/1991 9/17/1991 8/19/1991	8,100 4,700 27,000 270,000 540,000 74,000 39,000 140,000 150,000 270,000	130,000 110,000 140,000 370,000 130,000 740,000 150,000 140,000 170,000 450,000	NA	31,000 38,000 91,000 76,000 30,000 65,000 57,000 47,000 82,000	18,000 24,000 57,000 30,000 61,000 31,000 25,000 31,000 29,000	1,900 2,000 3,000 3,400 31,000 3,400 2,200 2,600 4,400 3,500	11,000 12,000 21,000 21,000 180,000 14,000 15,000 22,000 21,000	NA N
2/23/1993 11/13/1992 5/27/1992 7/14/1992 12/23/1991 11/23/1991 10/10/1991 9/17/1991 8/19/1991 7/20/1991	8,100 4,700 27,000 270,000 540,000 74,000 140,000 1590,000 270,000 270,000	130,000 110,000 140,000 370,000 130,000 130,000 150,000 140,000 140,000 170,000 450,000	NA N	31,000 38,000 91,000 76,000 30,000 65,000 57,000 47,000 82,000 46,000 39,000	18,000 24,000 57,000 30,000 61,000 31,000 25,000 31,000 29,000 49,000	1,900 2,000 3,000 3,400 31,000 3,400 2,200 2,600 4,400 3,500 13,000	11,000 12,000 21,000 21,000 180,000 18,000 14,000 15,000 22,000 21,000 69,000	NA
223/1993 11/13/1992 527/1992 7/14/1992 12/23/1991 11/25/1991 10/10/1991 9/17/1991 8/19/1991 7/20/1991 6/20/1991	\$,100 4,700 27,000 270,000 540,000 74,000 140,000 140,000 270,000 210,000 70,000	130,000 110,000 140,000 370,000 130,000 740,000 150,000 140,000 140,000 170,000 450,000 170,000	NA N	31,000 38,000 91,000 76,000 30,000 65,000 57,000 47,000 46,000 39,000 32,000 32,000	18,000 24,000 57,000 30,000 61,000 31,000 25,000 31,000 29,000 49,000 22,000	1,900 2,000 3,000 3,400 31,000 3,400 2,200 2,500 4,400 3,500 13,000 2,200	11,000 12,000 21,000 21,000 180,000 18,000 14,000 15,000 22,000 21,000 69,000 18,000	NA
223:1993 11/13/1992 527/1992 7/14/1992 7/14/1992 11/23/1991 11/23/1991 10/10/1991 9/17/1991 8/19/1991 7/20/1991 5/17/1991 4/15/1991 3/21/1991	\$,100 4,700 27,000 27,000 270,000 580,000 39,000 140,000 150,000 270,000 210,000 NA NA NA	190,000 110,000 140,000 170,000 130,000 140,000 140,000 140,000 140,000 170,000 490,000 110,000 110,000 110,000 110,000 110,000 120,000	NA N	31,000 38,000 91,000 75,000 30,000 65,000 57,000 47,000 47,000 46,000 30,000 31,000 30,000 44,000	18,000 24,000 57,000 30,000 61,000 31,000 25,000 31,000 25,000 49,000 49,000 15,000 14,000	1,900 2,000 3,000 3,000 3,400 3,400 2,200 2,000 4,400 3,500 113,000 2,200 880 880	11,000 12,000 21,000 21,000 180,000 180,000 14,000 15,000 22,000 22,000 21,000 69,000 18,000 7,400 5,400 31,000	NA
2/23/1993 11/13/1992 5/27/1992 7/14/1992 7/14/1992 11/25/1991 11/25/1991 9/17/1991 8/19/1991 7/20/1991 5/17/1991 4/15/1991 2/15/1991 11/4/1991	8,100 4,700 27,000 270,000 270,000 540,000 39,000 140,000 150,000 270,000 210,000 NA NA NA NA	130,000 110,000 1140,000 1340,000 1370,000 130,000 140,000 140,000 140,000 140,000 1770,000 1770,000 1770,000 170,000	NA	31,000 38,000 91,000 76,000 30,000 65,000 47,000 82,000 46,000 39,000 32,000 31,000 34,000 44,000 44,000	18,000 24,000 37,000 30,000 61,000 31,000 25,000 25,000 29,000 49,000 40,000 40,000 25,000	1,900 2,000 3,000 3,000 3,400 31,000 3,400 2,200 2,600 4,400 3,500 13,000 2,000 880 890 ND	11,000 12,000 21,000 21,000 180,000 180,000 18,000 12,000 22,000 22,000 21,000 69,000 18,000 7,000 31,000 16,000	NA
2/23/1993 11/13/1992 5/27/1992 5/27/1992 7/14/1992 11/25/1991 11/25/1991 10/10/1991 9/17/1991 8/19/1991 6/20/1991 4/15/1991 4/15/1991 1/14/1991 1/14/1991	\$,100 4,700 27,000 27,000 270,000 580,000 74,000 39,000 140,000 150,000 270,000 NA NA NA NA NA	110,000 110,000 1140,000 1370,000 1330,000 130,000 140,000 140,000 140,000 140,000 140,000 170,000 170,000 170,000 170,000 170,000 160,000	NA N	31,000 38,000 91,000 76,000 30,000 65,000 47,000 82,000 46,000 39,000 33,000 31,000 31,000 44,000 44,000 44,000 48,000 7,200	18,000 24,000 37,000 30,000 61,000 31,000 25,000 31,000 29,000 49,000 22,000 15,000 40	1,000 2,000 3,000 3,000 3,400 3,400 2,200 2,000 4,400 3,300 13,000 2,200 880 880 690 ND 1,000 420	11,000 12,000 121,000 21,000 18,000 18,000 18,000 15,000 15,000 18,000 18,000 15,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 3,400	NA
223/1993 11/13/1992 5.27/1992 5.27/1992 7/14/1992 12/23/1991 11/23/1991 10/10/1991 8/19/1991 8/19/1991 5/17/1991 4/15/1991 3/21/1991 2/15/1991 11/4/1991 9/27/1990 8/23/1990	\$,100 4,700 27,000 27,000 270,000 5840,000 74,000 39,000 140,000 150,000 210,000 NA NA NA NA NA NA NA NA	110,000 110,000 110,000 140,000 1370,000 130,000 140,000 140,000 140,000 140,000 170,0	NA N	31,000 38,000 91,000 76,000 65,000 57,000 47,000 47,000 46,000 39,000 31,000 31,000 44,000 44,000 7,200 67,000	18,000 24,000 57,000 30,000 31,000 31,000 25,000 31,000 25,000 49,000 22,000 15,000 14,000 40,000 46,000 46,000	1,000 2,000 3,000 3,000 3,400 3,400 2,200 2,200 4,400 3,500 13,000 2,200 880 690 ND ND 1,000 420	11,000 12,000 12,000 21,000 21,000 18,000 18,000 14,000 15,000 22,000 21,000 21,000 3,000 3,000 3,000 3,000 18,000 3,000	NA
223/1993 11/13/1992 527/1992 527/1992 7/14/1992 12/23/1991 11/23/1991 11/23/1991 8/19/1991 5/17/1991 5/17/1991 4/15/1991 3/24/1991 2/15/1991 11/44/1991 9/27/1990 8/23/1990 7/20/1990	8,100 4,700 27,000 27,000 270,000 280,000 39,000 140,000 150,000 270,000 NA	190,000 110,000 140,000 140,000 1370,000 1370,000 140,000 140,000 140,000 140,000 170,	NA N	31,000 38,000 91,000 76,000 65,000 57,000 47,000 47,000 32,000 34,000 34,000 34,000 44,000 44,000 44,000 44,000 47,000 9,100 9,100	18,000 24,000 57,000 30,000 31,000 31,000 25,000 31,000 29,000 29,000 14,000 14,000 46,000 14,000 14,000	1,000 2,000 3,000 3,000 3,400 3,400 2,200 2,000 4,400 3,500 4,400 3,500 880 880 890 ND 1,000 4,20 27,000	11,000 12,000 12,000 21,000 18,000 18,000 14,000 15,000 12,000 18,000 15,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000	NA
223/1993 11/13/1992 527/1992 7/14/1992 7/14/1992 11/23/1991 11/23/1991 11/23/1991 8/19/1991 6/20/1991 4/15/1991 4/15/1991 2/15/1991 11/4/1991	8,100 4,700 27,000 27,000 270,000 39,000 140,000 150,000 270,000 NA	190,000 110,000 140,000 1370,000 130,000 130,000 140,000 140,000 140,000 140,000 140,000 170,0	NA N	31,000 38,000 91,000 76,000 57,000 65,000 57,000 47,000 82,000 30,000 30,000 44,000 30,000 44,000 44,000 7,200 67,000 9,100 9,100	18,000 24,000 57,000 30,000 61,000 31,000 31,000 25,000 31,000 29,000 49,000 49,000 14,000 40,000	1,000 2,000 3,000 3,000 3,100 3,100 2,200 2,600 4,400 3,500 13,000 880 880 80 ND 1,000 4,00 2,200 880 90 ND	11,000 12,000 12,000 11,000 180,000 180,000 14,000 15,000 12,000 16,000 18,000	NA
223/1993 11/13/1992 527/1992 527/1992 7/14/1992 12/23/1991 11/23/1991 11/23/1991 8/19/1991 5/17/1991 5/17/1991 4/15/1991 3/24/1991 2/15/1991 11/44/1991 9/27/1990 8/23/1990 7/20/1990	8,100 4,700 27,000 27,000 270,000 280,000 39,000 140,000 150,000 270,000 NA	190,000 110,000 140,000 140,000 1370,000 1370,000 140,000 140,000 140,000 140,000 170,	NA N	31,000 38,000 91,000 76,000 65,000 57,000 47,000 47,000 32,000 34,000 34,000 34,000 44,000 44,000 44,000 44,000 47,000 9,100 9,100	18,000 24,000 57,000 30,000 31,000 31,000 25,000 31,000 29,000 29,000 14,000 14,000 46,000 14,000 14,000	1,000 2,000 3,000 3,000 3,400 3,400 2,200 2,000 4,400 3,500 4,400 3,500 880 880 890 ND 1,000 4,20 27,000	11,000 12,000 12,000 21,000 18,000 18,000 14,000 15,000 12,000 18,000 15,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000	NA
2/23/1993 11/13/1992 5/27/1992 7/14/1992 7/14/1992 11/23/1991 11/23/1991 11/23/1991 9/17/1991 8/19/1991 5/17/1991 4/15/1991 3/21/1991 2/15/1991 11/4/1991 8/23/1991 11/4/1991 3/21/1991 11/4/1991 11/4/1991 11/4/1991 11/4/1991 11/4/1991 11/4/1991 11/4/1991 11/4/1991 11/4/1991 11/4/1991 11/4/1991 11/4/1991 11/4/1991 11/4/1991 11/4/1991 11/4/1991 11/4/1991 11/4/1991 11/4/1991	8,100 4,700 27,000 27,000 270,000 39,000 140,000 150,000 270,000 NA	190,000 110,000 140,000 1370,000 130,000 130,000 140,000 140,000 140,000 140,000 140,000 170,0	NA N	31,000 38,000 91,000 76,000 57,000 65,000 57,000 47,000 82,000 30,000 30,000 44,000 30,000 44,000 44,000 7,200 67,000 9,100 9,100	18,000 24,000 37,000 30,000 31,000 31,000 31,000 25,000 49,000 29,000 49,000 15,000 40,000 46,000 46,000 46,000 46,000 14,000 14,000 14,000 14,000 14,000 14,000 14,000 14,000 14,000 14,000 14,000 14,000 14,000 14,000 14,000 15,000 16,000	1,000 2,000 3,000 3,000 3,100 3,100 2,200 2,600 4,400 3,500 13,000 880 880 80 ND 1,000 4,00 2,200 880 90 ND	11,000 12,000 12,000 12,000 18,000	NA
2/23/1993 11/13/1992 5/27/1992 5/27/1992 7/14/1992 11/25/1991 11/25/1991 11/25/1991 6/20/1991 5/17/1991 4/15/1991 4/15/1991 1/14/1991 9/27/1990 8/23/1990 8/23/1990 0/2/20/90**	8,100 4,700 27,000 27,000 270,000 39,000 140,000 150,000 270,000 NA	190,000 110,000 140,000 1370,000 130,000 130,000 140,000 140,000 140,000 140,000 140,000 170,0	NA N	31,000 38,000 91,000 76,000 30,000 57,000 47,000 82,000 47,000 32,000 31,000 30,000 44,000 44,000 44,000 44,000 44,000 45,000 57,000	18,000 24,000 57,000 30,000 61,000 31,000 31,000 25,000 49,000 49,000 49,000 49,000 49,000 49,000 49,000 49,000 49,000 49,000 49,000 15,000 14,000 15,000 16,000	1,000 2,000 3,000 3,000 3,400 3,400 2,200 4,400 3,300 13,000 13,000 10,000 10,000 10,000 10,000 11,000 11,000	11,000 12,000 12,000 21,000 21,000 18,000 18,000 14,000 15,000 12,000 18	NA
2/23/1993 11/13/1992 5/27/1992 5/27/1992 7/14/1992 11/25/1991 11/25/1991 11/25/1991 11/25/1991 6/20/1991 5/17/1991 4/15/1991 2/15/1991 2/15/1991 2/15/1991 1/14/1991 9/27/1990 8/23/1990 7/20/1990 3/19/1990 3/19/1990 3/19/1990 3/19/1990 3/19/1990 3/19/1990 3/19/1990 3/19/1990 3/19/1990 3/19/1990 3/19/1990 3/19/1990 3/19/1990 3/19/1990	8,100 4,700 27,000 27,000 270,000 39,000 140,000 150,000 270,000 NA	190,000 110,000 140,000 1370,000 130,000 130,000 140,000 140,000 140,000 140,000 140,000 170,0	NA N	31,000 38,000 91,000 76,000 57,000 65,000 57,000 47,000 82,000 30,000 30,000 44,000 30,000 44,000 44,000 7,200 67,000 9,100 9,100	18,000 24,000 37,000 30,000 31,000 31,000 31,000 25,000 31,000 29,000 15,000 14,000 40,000 46,000 46,000 14,000 15,000 18,000 18,000 18,000 Not San Not San	1,000 2,000 3,000 3,000 3,400 2,200 2,200 4,400 13,000 2,200 880 13,000 2,200 880 690 ND 1,000 420 27,000 940 1,360 1,360	11,000 12,000 12,000 21,000 18,000 18,000 14,000 15,000 12,000 18	NA
2/24/1993 11/13/1992 5/27/1992 5/27/1992 7/14/1992 12/23/1991 11/25/1991 11/25/1991 8/19/1991 8/19/1991 5/17/1991 4/15/1991 3/21/1991 3/21/1991 1/14/1991 9/27/1990 8/23/1990 7/20/1990 3/19/1990 3/19/1990 3/19/1990 1/2/1	8,100 4,700 27,000 27,000 270,000 39,000 140,000 150,000 270,000 NA	190,000 110,000 140,000 1370,000 130,000 130,000 140,000 140,000 140,000 140,000 140,000 170,0	NA N	31,000 38,000 91,000 76,000 30,000 57,000 47,000 82,000 47,000 32,000 31,000 30,000 44,000 44,000 44,000 44,000 44,000 45,000 57,000	18,000 24,000 37,000 30,000 61,000 31,000 31,000 25,000 31,000 29,000 15,000 14,000 40,000 46,000 46,000 14,000 15,000 15,000 15,000 Not San Not San	1,000 2,000 3,000 3,000 3,400 3,400 2,200 4,400 3,500 4,400 3,500 690 ND 1,000 420 27,000 940 1,800 1,800 1,800 1,800	11,000 12,000 12,000 11,000 118,000 118,000 114,000 115,000 122,000 118,000 11	NA
2/23/1993 11/13/1992 5/27/1992 5/27/1992 7/14/1992 11/23/1991 11/23/1991 11/23/1991 8/19/1991 6/20/1991 5/17/1991 4/15/1991 4/15/1991 1/14/1991 9/27/1990 8/23/1990 8/23/1990 8/23/1990 0/2/20/1990 1/14/1991 2/14/2011 7/26/2010 1/27/2010	8,100 4,700 27,000 27,000 270,000 39,000 140,000 150,000 270,000 NA	190,000 110,000 140,000 1370,000 130,000 130,000 140,000 140,000 140,000 140,000 140,000 170,0	NA N	31,000 38,000 91,000 76,000 30,000 57,000 47,000 82,000 47,000 32,000 31,000 30,000 44,000 44,000 44,000 44,000 44,000 45,000 57,000	18,000 24,000 31,000 31,000 31,000 31,000 31,000 31,000 25,000 31,000 49,000 49,000 22,000 49,000 49,000 15,000 14,000 25,000 6,400 46,000 14,000 15,000 Not San Not San Not San	1,000 2,000 3,000 3,000 3,400 3,400 2,200 4,400 13,000 2,000 4,000 13,000 13,000 13,000 13,000 13,000 13,000 13,000 13,000 13,000 13,000 13,000 13,000 13,000 13,000 13,000 14,000	11,000 12,000 21,000 21,000 21,000 18,000 18,000 15,000 22,000 18,000 69,000 18,000 3,000 18,000 16,000 18,000 16,000 16,000 18,000 16,000 16,000 16,000 17,000 16,000 18,000 18,000 19,	NA
223/1993 11/13/1992 5.27/1992 5.27/1992 7/14/1992 11/25/1991 10/10/1991 9/17/1991 8/19/1991 7/20/1991 4/15/1991 4/15/1991 4/15/1991 4/15/1991 2/15/1991 8/23/1990 8/23/1990 8/23/1990 7/20/1990 8/23/1990 1/14/1991 2/15/1991 1/14/1991 8/23/1990 1/14/1991	8,100 4,700 27,000 27,000 270,000 39,000 140,000 150,000 270,000 NA	190,000 110,000 140,000 1370,000 130,000 130,000 140,000 140,000 140,000 140,000 140,000 170,0	NA N	31,000 38,000 91,000 76,000 30,000 57,000 47,000 82,000 47,000 32,000 31,000 30,000 44,000 44,000 44,000 44,000 44,000 45,000 57,000	18,000 24,000 37,000 30,000 31,000 31,000 31,000 31,000 31,000 25,000 49,000 49,000 22,000 49,000 49,000 22,000 14,000 40,000 25,000 40,000 14,000 14,000 15,000 Not San Not San Not San	1,000 2,000 3,000 3,000 3,400 2,200 2,200 4,400 3,500 13,000 2,200 880 13,000 2,200 880 690 ND 1,000 420 27,000 940 1,800 1,800 ppled (Free Product upded (Free Pro	11,000 12,000 21,000 21,000 21,000 18,000 18,000 14,000 15,000 22,000 18	NA
2/23/1993 11/13/1992 5/27/1992 5/27/1992 7/14/1992 11/23/1991 11/23/1991 11/23/1991 7/20/1991 5/17/1991 4/15/1991 3/21/1991 3/21/1991 11/41/1991 9/27/1990 8/23/1990 7/20/1990 3/1990 12/23/1990	8,100 4,700 27,000 27,000 270,000 39,000 140,000 150,000 270,000 NA	190,000 110,000 140,000 1370,000 130,000 130,000 140,000 140,000 140,000 140,000 140,000 170,0	NA N	31,000 38,000 91,000 76,000 30,000 57,000 47,000 82,000 47,000 32,000 31,000 30,000 44,000 44,000 44,000 44,000 45,000 7,200 67,000 9,100 20,000 20,000 20,000	18,000 24,000 31,000 31,000 31,000 31,000 31,000 31,000 25,000 31,000 49,000 22,000 115,000 40,000 40,000 14,000 14,000 15,000 15,000 Not San Not San Not San Not San Not San	1,000 2,000 3,000 3,400 3,400 2,200 2,200 4,400 3,500 2,200 4,800 4,200 1,000 420 27,000 940 1,000	11,000 12,000 12,000 21,000 21,000 18,000 18,000 18,000 15,000 12,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 18,000 19	NA
2/23/1993 11/13/1992 5/27/1992 5/27/1992 7/14/1992 11/25/1991 11/25/1991 11/25/1991 11/25/1991 6/20/1991 5/17/1991 4/15/1991 4/15/1991 2/15/1991 2/15/1991 8/23/1990 8/23/1990 3/19/1990 3/19/1990 3/19/1990 3/19/1990 1/12/1990	8,100 4,700 27,000 27,000 270,000 39,000 140,000 150,000 270,000 NA	190,000 110,000 140,000 1370,000 130,000 130,000 140,000 140,000 140,000 140,000 140,000 170,0	NA N	31,000 38,000 91,000 76,000 30,000 57,000 47,000 82,000 47,000 32,000 31,000 32,000 34,000 44,000 44,000 44,000 45,000 7,000 9,100 9,100 20,000	18,000 24,000 37,000 37,000 31,000 31,000 31,000 31,000 25,000 31,000 25,000 15,000 14,000 25,000 14,000 14,000 15,000 15,000 15,000 15,000 15,000 16,000 17,000 18	1,000 2,000 3,000 3,000 3,400 2,200 2,200 4,400 3,500 13,000 2,200 880 13,000 2,200 880 690 ND 1,000 420 27,000 940 1,800 1,800 ppled (Free Product upded (Free Pro	11,000 12,000 12,000 21,000 21,000 18,000 18,000 118,000 12,000 15,000 12,000 18,000 1	NA

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Date	трн-р	трн-G	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Other Fuel Additives by 8260*
MW4 (Cont.)								
4/16/2008					Not San	npled (Free Product	Present in Well)	
1/17/2008					Not San	npled (Free Product	Present in Well)	<u> </u>
10/16/2007		l			Not San	npled (Free Product	Present in Well)	
7/25/2007					Not San	npled (Free Product	Present in Well)	
4/17/2007					Not San	npled (Free Product	Present in Well)	
1/18/2007					Not San	npled (Free Product	Present in Well)	
11/14/2006		·	· · · · · · · · · · · · · · · · · · ·		Not San	npled (Free Product	Present in Well)	·
6/29/2006	83,000,a,d	140,000,a	31,000	44,000	13,000	2,600	19,000	ND<1,000, except TBA = ND<10,000
2/3/2006	83,000,a,d	150,000,a	22,000	35,000	12,000	3,200	14,000	ND<500, except TBA = 7000
11/18/2005						npled (Free Product		
7/28/2005	94,000,a,d	130,000,a	27,000,+	32,000	8,900	2,900	14,000	ND<500, except TBA = 8,400
4/13/2005						npled (Free Product		
1/31/2005			I			npled (Free Product		
10/15/2004 7/13/2004						npled (Free Product		
2/11/2004			F Post to			npled (Free Product		
12/18/2003			Free Product	sampied. Laborat		npled (Free Product		a less significant gasoline-range pattern.
9/18/2003						npled (Free Product		
6/26/2003		L				npled (Free Product		
3/18/2003						npled (Free Product		
12/21/2002						npled (Free Product		I
9/10/2002						npled (Free Product		
3/30/2002						npled (Free Product		
12/22/2001			L			npled (Free Product		
9/23/2001						npled (Free Product		
6/22/2001	440,000,a,d	140,000	15,000	35,000	19,000	2,000	10,000	NA NA
4/22/2001		L	L		Not San	npled (Free Product	Present in Well)	
12/14/2000					Not San	npled (Free Product	Present in Well)	
9/18/2000		ļ			Not San	npled (Free Product	Present in Well)	
6/8/2000		L			Not San	npled (Free Product	Present in Well)	
3/9/2000	2,100,000,a,d	130,000	6,900	35,000	13,000	2,100	11,000	NA
12/9/1999	9,000,000,a,d	120,000	8,100	33,000	6,000	2,400	12,000	NA NA
8/31/1999	9,400,d	190,000	4,400	46,000	30,000	2,800	15,000	NA
4/29/1999	9,400,d	210,000	3,200	42,000	35,000	2,800	15,000	NA NA
1/29/1999	7,300,d	190,000	2,400	44,000	40,000	3,100	17,000	NA
						1		1
4/26/1998	13,000,d	190,000	ND	49,000	37,000	3,200	18,000	NA NA
4/26/1998 1/24/1998	20,000,d	200,000	ND ND	49,000 50,000	40,000	3,200	17,000	NA NA
1/24/1998	20,000,d 110,000,d	200,000	ND ND	50,000 48,000	40,000 30,000	3,100 2,800	17,000	NA NA
1/24/1998 11/6/1997 8/26/1997	20,000,d	200,000	ND	50,000	40,000	3,100 2,800 3,400	17,000 16,000 19,000	NA NA
1/24/1998 11/6/1997 8/26/1997 8/15/1997	20,000,d 110,000,d	200,000	ND ND	50,000 48,000	40,000 30,000	3,100 2,800	17,000 16,000 19,000	NA NA
1/24/1998 11/6/1997 8/26/1997 8/15/1997 MW5	20,000.d 110,000.d 5,500.d	200,000 160,000 210,000	ND ND 1,700	50,000 48,000 48,000	40,000 30,000 42,000	3,100 2,800 3,400 MW4 Installe	17,000 16,000 19,000	NA NA NA
1/24/1998 11/6/1997 8/26/1997 8/15/1997 MWS 7/20/2011	20,000,d 110,000,d 5,500,d	200,000 160,000 210,000 ND<50	ND ND 1,700 1.700	50,000 48,000 48,000 ND<0.5	40,000 30,000 42,000 ND<0.5	3,100 2,800 3,400 MW4 Installe ND<0.5	17,000 16,000 19,000 d ND<0.5	NA
1/24/1998 11/6/1997 8/26/1997 8/15/1997 MWS 7/20/2011 2/15/2011	20,000.d 110,000.d 5,500.d 5,500.d	200,000 160,000 210,000 ND<50	ND ND 1,700 1.9 ND<0.5	50,000 48,000 48,000 ND<0.5	40,000 30,000 42,000 ND<0.5	3,100 2,800 3,400 MW4 Installe ND<0.5	17,000 16,000 19,000 19,000 1 ND<0.5	NA NA NA NA NA NA ND-0.5, except TBA = 6.: ND-0.5, except TBA ND-2.(
1/24/1998 11/6/1997 8/26/1997 8/15/1997 MWS 7/20/2011 2/15/2011 7/27/2010	20,000,d 110,000,d 5,500,d 5,500,d 94 ND<50 ND<50	200,000 160,000 210,000 ND<50 ND<50 ND<50	ND ND 1.700 1.700 1.9 ND<0.5	50,000 48,000 48,000 ND<0.5 ND<0.5	40,000 30,000 42,000 ND<0.5 ND<0.5	3,100 2,800 3,400 MW4 Installe ND<0.5 ND<0.5	17,000 16,000 19,000 d ND<0.5 ND<0.5	NA NA NA NA NA NA ND-0.5, except TBA = 6.: ND-0.5, except TBA ND-2.6 ND-0.5, except TBA ND-2.6
1/24/1998 11/6/1997 8/26/1997 8/15/1997 MWS 7/20/2011 2/15/2011 7/27/2010	20,000,d 110,000,d 5,500,d 5,500,d 94 ND<50 ND<50 ND<50	200,000 160,000 210,000 ND<50 ND<50 ND<50 ND<50	ND ND 1.700 1.700 1.9 ND<0.5 0.51 0.57	50,000 48,000 48,000 ND<0.5 ND<0.5 ND<0.5	40,000 30,000 42,000 ND<0.5 ND<0.5 ND<0.5 ND<0.5	3,100 2,800 3,400 MW4 Installe ND<0.5 ND<0.5 ND<0.5	17,000 16,000 19,000 4 ND<0.5 ND<0.5 ND<0.5	NA NA NA NA NA NA NA ND-0.5, except TBA = 6.: ND-0.5, except TBA ND-2.6 ND-0.5, except TBA ND-2.6 ND-0.5, except TBA ND-2.6
1/24/1998 11/6/1997 8/26/1997 8/15/1997 MWS 7/26/2011 2/15/2010 1/28/2010 10/16/2009	20,000.d 110,000.d 5,500.d 5,500.d 94 ND-50 ND-50 ND-50 ND-50	200,000 160,000 210,000 ND<50 ND<50 ND<50 ND<50 ND<50	ND ND 1,700 1,700 1.9 ND<0.5 0.51 0.57 0.63	50,000 48,000 48,000 ND<0.5 ND<0.5 ND<0.5 ND<0.5	40,000 30,000 42,000 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5	3,100 2,800 3,400 MW4 Installe ND=0.5 ND=0.5 ND=0.5 ND=0.5 ND=0.5	17,000 16,000 19,000 1 ND<0.5 ND<0.5 ND<0.5 ND<0.5	NA
1/24/1998 11/6/1997 8/26/1997 8/15/1997 MWS 7/20/2011 2/15/2011 7/27/2010	20,000,d 110,000,d 5,500,d 5,500,d 94 ND<50 ND<50 ND<50	200,000 160,000 210,000 ND<50 ND<50 ND<50 ND<50	ND ND 1.700 1.700 1.9 ND<0.5 0.51 0.57	50,000 48,000 48,000 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5	40,000 30,000 42,000 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5	3,100 2,800 3,400 MW4 Installe ND=0.5 ND=0.5 ND=0.5 ND=0.5 ND=0.5 ND=0.5	17,000 16,000 19,000 4 ND<0.5 ND<0.5 ND<0.5	NA
1/24/1998 11/6/1997 8/26/1997 8/15/1997 8/15/1997 MWS 7/20/2011 2/15/2011 1/28/2010 1/128/2010 1/16/2009	20,000.d 110,000.d 5,500.d 5,500.d 94 ND-50 ND-50 ND-50 ND-50 ND-50	200,000 160,000 210,000 210,000 ND<50 ND<50 ND<50 ND<50 ND<50 ND<50	ND ND 1,700 1.9 ND-0.5 0.51 0.57 0.63 0.72	50,000 48,000 48,000 ND<0.5 ND<0.5 ND<0.5 ND<0.5	40,000 30,000 42,000 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5	3,100 2,800 3,400 MW4 Installe ND=0.5 ND=0.5 ND=0.5 ND=0.5 ND=0.5	17,000 16,000 19,000 19,000 ND<0.5 ND<0.5 ND<0.5 ND<0.5	NA
124/1998 11.6/1997 826/1997 835/1997 835/1997 MWS 7/20/2011 2/15/2010 12/8/2010 10/16/2009 7/8/2006	20,000,d 110,000,d 5,500,d 5,500,d 94 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50	200,000 160,000 210,000 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50	ND ND 1.700 1.700 1.9 ND-0.5 0.51 0.57 0.63 0.72	\$0,000 48,000 48,000 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5	40,000 30,000 42,000 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5	3,100 2,800 3,400 MW4 Installe ND=0.5 ND=0.5 ND=0.5 ND=0.5 ND=0.5 ND=0.5 ND=0.5 ND=0.5	17,000 16,000 19,000 19,000 MD<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5	NA
1/24/1998 11/6/1997 8/26/1997 8/26/1997 8/26/1997 MWS 7/20/2011 2/15/2010 1/27/2010 10/16/2009 7/8/2006 1/7/2006	20,000,d 110,000,d 5,500,d 5,500,d 94 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50	200,000 160,000 210,000 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50	ND ND 1.700 1.700 1.9 ND-0.5 0.51 0.57 0.63 0.72	\$0,000 48,000 48,000 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5	40,000 30,000 42,000 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5	3,100 2,800 3,400 MW4 Installe ND=0.5 ND=0.5 ND=0.5 ND=0.5 ND=0.5 ND=0.5 ND=0.5 ND=0.5	17,000 16,000 19,000 19,000 MD<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5	NA
1/24/1998 11/6/1997 8/26/1997 8/26/1997 8/15/1997 8/15/1997 15/1997 15/1997 16/1997 16/1997 16/1999 16	20,000.d 110,000.d 5,500.d 5,500.d 94 ND-50	200,000 160,000 210,000 ND:50	ND ND 1.700 1.700 1.900	\$0,000 48,000 48,000 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5 ND<0.5	40,000 30,000 42,000 ND-0.5	3,100 2,800 3,400 MW4 Installe ND-0.5	17,000 16,000 19,000 19,000 1 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5	NA
1/24/1998 11/6/1997 8/26/1997 8/15/1997 8/15/1997 MWS 7/20/2011 7/27/2010 11/28/2010 10/18/2009 17/8/2006 17/2006 10/23/2008 7/17/2008	20,000.d 110,000.d 5,500.d 94 ND-50	200,000 160,000 170,000 210,000 ND-50	ND ND 1,700 1,700 1,700 1,700 0,51 0,51 0,57 0,63 0,72 0,72 1,2 2,2 1,9	\$0,000 48,000 48,000 48,000 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5	40,000 30,000 42,000 42,000 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5	3,100 2,800 3,400 3,400 MV4 Installe ND-0.5	17,000 16,000 19,000 19,000 1 ND-0.5	NA
1/24/1998 11/6/1997 8/26/1997 8/15/1997 8/15/1997 MWS 7/20/2011 7/27/2010 11/28/2010 10/16/2009 7/8/2006 1/7/2006 10/25/2008 4/16/2008 4/16/2008	20,000.d 110,000.d 5,500.d 94 ND-50	200,000 160,000 170,000 210,000 ND-50	ND ND 1,700 1,700 1,700 1,700 0,51 0,51 0,57 0,63 0,72 0,72 1,2 2,2 1,9	\$0,000 48,000 48,000 48,000 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5	40,000 30,000 42,000 42,000 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5	3,100 2,800 3,400 3,400 MV4 Installe ND-0.5	17,000 16,000 19,000 19,000 1 ND-0.5	NA
1/24/1998 11/6/1997 8/26/1997 8/26/1997 8/26/1997 MWS 7/20/2011 2/15/2010 1/27/2010 10/16/2009 1/7/2006 10/25/2008 4/16/2008 4/16/2008 1/21/2008 MW6	20,000,d 110,000,d 5,500,d 5,500,d 94 ND-50	200,000 160,000 210,000 ND-50	ND ND 1,700 11,700 10,7	ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5	40,000 30,000 42,000 ND-0.5	3,100 2,800 3,400 MW4 Installe ND-0.5	17,000 16,000 19,000 19,000 19,000 10 ND-0.5	NA
1724/1998 11.6/1997 8.26/1997 8.26/1997 MWS 7,202.011 2715/2010 12715/2010 10716/2099 1777,2006 10725/2008 7717,2008 416/2008 12715/2007 MW6 7719/2011	20,000,d 110,000,d 5,500,d 5,500,d 94 ND-50	200,000 160,000 210,000 ND-50	ND ND 1,700 11,7	ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5	40,000 30,000 42,000 ND-0.5	3,100 2,800 3,400 MW4 Installe ND-0.5	17,000 16,000 19,000 19,000 1 ND-0.5	NA
1/24/1998 11.6/1997 8.26/1997 8.15/1997 8.15/1997 MWS 7-26/2011 2/15/2011 128/2010 11/28/2010 10/16/2009 17/2/2006 10/23/2008 416/2008 12/13/2007 MW6 7/19/2011	20,000.d 110,000.d 5,500.d 94 ND-50	200,000 160,000 210,000 210,000 ND-50 ND-5	ND ND 1,700	ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5	MD-0.5 ND-0.5 ND	3,100 2,800 3,400 MW4 Installe ND-0.5	17,000 16,000 19,000 19,000 1 ND-0.5	NA
1/24/1998 11/6/1997 8/26/1997 8/15/1997 8/15/1997 8/15/1997 1/7/202011 2/15/2011 1/28/2010 1/28/2010 1/2/2005 1/7/2006 1/7/2008 4/16/2008 1/2/2008	20,000.d 110,000.d 5,500.d 110,000.d 5,500.d 94 ND-50	200,000 160,000 210,000 210,000 ND-50 110 45,000 52,000	ND ND 1,700	ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5	40,000 30,000 42,000 ND-0.5 1,500 2,100 2,600	3,100 2,800 3,400 MW4 Installe ND-0.5	17,000 16,000 19,000 19,000 1 ND-0.5	NA
1/24/1998 11/6/1997 8/26/1997 8/15/1997 8/15/1997 17/20/2011 7/27/2010 11/28/2010 10/12/2009 17/2006 17/2008 17/2008 17/2008 17/2008 12/15/2007 MW6 7/99/2011 7/26/2010 17/26/2010	20,000.d 110,000.d 5,500.d 94 ND-50	200,000 160,000 210,000 210,000 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50 10 10 45,000 45,000 57,000 53,000 60,000	ND ND 170 ND-170	\$0,000 48,000 48,000 18,000 18,000 ND-0.5	40,000 30,000 42,000 ND-0.5	3,100 2,800 3,400 MV4 Installe ND-0.5	17,000 16,000 19,000 19,000 19,000 10 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 10,005 ND-0.5 11,000 11,000 11,000	NA
1/24/1998 11/6/1997 8/26/1997 8/26/1997 8/15/1997 8/15/1997 8/15/1997 8/15/2011 2/15/2011 1/28/2010	20,000.d 110,000.d 5,500.d 94 ND-50 ND-	200,000 160,000 160,000 210,000 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50 110 45,000 45,000 57,000 60,000 51,000	ND ND 1,700 ND-170 ND-1	ND-0.5 ND-0.6 ND-0.6 6.600 6.600	1,500 2,400 3,500 42,000 1,500 1,500 1,500 2,400 3,500 3,500 3,500 3,600 1,500 3,500 3,500 3,600 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000	3,100 2,800 3,400 MW4 Installe ND-0.5	17,000 16,000 19,000 1 1 10 11,000 11,000 11 11,000 11 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000	NA
1/24/1998 11/6/1997 8/26/1997 8/15/1997 8/15/1997 8/15/1997 8/15/1997 8/15/1997 8/15/1997 17/2001 12/15/2011 12/15/2011 12/15/2010 11/15/2009 17/15/2009 17/15/2009 17/15/2009 17/15/2009 17/15/2009 17/15/2009 17/15/2009 17/15/2009 17/15/2009 17/15/2009 17/15/2009 17/15/2009 17/15/2009 17/15/2009 17/15/2009 17/15/2009 17/15/2009 17/15/2009	20,000,d 110,000,d 110,000,d 5,500,d 94 ND-50 ND	200,000 160,000 160,000 210,000 ND-50 SD-50 ND-50 SD-50 SD-5	ND ND 1,790 1,90 1,790 1	\$0,000 48,000 48,000 48,000 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 1,000 1,0	MD-0.5 ND-0.5 ND	3,100 2,800 3,400 MW4 Installe ND-0.5 ND-	17,000 16,000 19,000 19,000 19,000 1 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 10,00 11,000 11,000 11,000 11,000 11,000	NA
1/24/1998 11/6/1997 8/26/1997 8/15/1997 8/15/1997 8/15/1997 8/15/1997 8/15/1997 8/15/1997 1/202011 2/15/2011 1/28/2010 1/28/2010 1/28/2010 1/2/2005 1/2/2006 1/2/2008 1/2/2007 1/2/2010 1/2/2010 1/2/2010 1/2/2010 1/2/2010 1/2/2010 1/2/2010 1/2/2010 1/2/2010 1/2/2010 1/2/2009 1/2/2009	20,000.d 110,000.d 110,000.d 5,500.d 94 ND-50 ND	200,000 160,000 160,000 210,000 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50 SD-50 SD-5	ND ND 1,700 ND-170 ND-170 ND-120 ND-1	\$0,000 48,000 48,000 48,000 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 Solution of the properties of the	40,000 30,000 42,000 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 1,500 2,100 2,600 2,600 3,700 3,500 3,400 4,200 3,400	3,100 2,800 3,400 MW4 Installe ND-0.5	17,000 16,000 19,000 19,000 1 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 10,000 11,000 11,000 11,000 11,000 11,000	NA
1/24/1998 11/6/1997 8/26/1997 8/26/1997 8/26/1997 8/26/1997 1/27/2001 1/27/2010 1/27/2010 1/27/2010 1/27/2010 1/27/2006	20,000,d 110,000,d 5,500,d 94 ND-50 ND-	200,000 160,000 210,000 210,000 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50 SD-50 SD-5	ND ND 170 ND-120	\$0,000 48,000 48,000 48,000 ND-0.5	40,000 30,000 42,000 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 1,500 2,400 3,400 3,400 3,400 3,400 3,400 3,400	3,100 2,800 3,400 MW4 Installe ND-0.5	17,000 16,000 19,000 19,000 19,000 19,000 10,000 10,000 10,000 10,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000	NA
1724/1998 11.6/1997 8.26/1997 8.26/1997 8.26/1997 MWS 7/20/2011 2/15/2010 10/16/2006 10/25/2008 7/17/2008 4/16/2006 10/16/2006 10/16/2006 10/16/2006 10/16/2006 10/16/2006 10/16/2006 10/16/2006 10/16/2006 10/16/2006 10/16/2006 10/16/2006 10/16/2006 10/16/2006 10/16/2006 10/16/2006 10/16/2006	20,000.d 110,000.d 110,000.d 5,500.d 94 ND-50 ND	200,000 160,000 160,000 210,000 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50 SD-50 SD-5	ND ND 1,700 ND-170 ND-170 ND-120 ND-1	\$0,000 48,000 48,000 48,000 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 Solution of the properties of the	40,000 30,000 42,000 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 1,500 2,100 2,600 2,600 3,700 3,500 3,400 4,200 3,400	3,100 2,800 3,400 MW4 Installe ND-0.5	17,000 16,000 19,000 19,000 1 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 10,000 11,000 11,000 11,000 11,000 11,000	NA
1/24/1998 11/6/1997 8/26/1997 8/26/1997 8/26/1997 8/15/1997 MWS 7/20/2011 2/15/2010 10/16/2099 1/7/2096 10/23/2008 7/17/2008 4/16/2009 1/2/2010 1/2	20,000,d 110,000,d 5,500,d 110,000,d 5,500,d 94 ND-50 N	200,000 160,000 160,000 210,000 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50 SD-50 SD-5	ND ND 170 ND-120	\$0,000 48,000 48,000 48,000 ND-0.5 A600 4,600 6,000 7,800 6,100 7,800 4,800 7,900	10000 10000	3,100 2,800 3,400 ND-0.5	17,000 16,000 19,000 19,000 1 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 1,000 13,000 15,000 113,000 16,000 16,000	NA
1/24/1998 11/6/1997 8/26/1997 8/15/1997 8/15/1997 8/15/1997 8/15/1997 8/15/1997 8/15/1997 8/15/1997 1/200011 12/15/2010 10/16/2099 10/23/2008 10/23/2008 10/23/2008 12/13/2007 MWe 7/19/2011 12/14/2014 10/16/2009 10/23/2008 10/23/2008 10/23/2008 10/23/2008 10/23/2008 10/23/2008 10/23/2008 10/23/2009 10/23/2009 10/23/2008 10/23/2009 10/23/2008 10/23/2008 10/23/2008 10/23/2008 10/23/2008 11/23/2009 10/23/2008 11/23/2009 10/23/2008 11/23/2009 10/23/2008 11/23/2009 11/23/2008 11/23/2008 11/23/2008 11/23/2008 11/23/2008 11/23/2008 11/23/2008 11/23/2008 11/23/2008 11/23/2008 11/23/2009 11/23/2008	20,000,d 110,000,d 5,500,d 110,000,d 5,500,d 94 ND-50	200,000 160,000 160,000 210,000 ND-50 SD-50 ND-50 SD-50 SD-5	ND ND 1,700 ND-120 ND-1	\$0,000 48,000 48,000 48,000 ND-0.5 ND-0.6 ND-0.6 ND-0.7	1,500 1,500	3,100 2,800 3,400 MW4 Installe ND-0.5 ND-	17,000 16,000 19,000 19,000 1 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 10,000 11,000	NA
1/24/1998 11/6/1997 8/26/1997 8/15/1997 8/15/1997 8/15/1997 8/15/1997 8/15/1997 1/200011 2/15/2011 1/28/2010 1/28/2010 1/28/2010 1/28/2008 1/2/2008 1/2/2008 1/2/2009	20,000,d 110,000,d 5,500,d 110,000,d 5,500,d 94 ND-50 ND-60	200,000 160,000 210,000 210,000 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50 SD-50 ND-50 SD-50 SD-5	ND ND 1,790 ND-0.5 ND-0.72 ND-0.72 ND-0.70 ND-	\$0,000 48,000 48,000 48,000 48,000 ND-0.5	10000 10000	3,100 2,800 3,400 MW4 Installe ND-0.5 ND-	17,000 16,000 19,000 19,000 19,000 119,000 119,000 110,000	NA
1/24/1998 11/6/1997 8/26/1997 8/26/1997 8/26/1997 8/26/1997 8/26/1997 8/26/1997 8/26/2011 2/25/2010 1/28/2010 1/28/2010 1/28/2010 1/28/2010 1/28/2010 1/28/2008 1/2/2008 1/2/2008 1/2/2008 1/2/2008 1/2/2008 1/2/2008 1/2/2008 1/2/2008 1/2/2009 1/2/2009 1/2/2009 1/2/2009 1/2/2009 1/2/2009 1/2/2009 1/2/2009 1/2/2009 1/2/2009 1/2/2009 1/2/2009 1/2/2009 1/2/2009 1/2/2009 1/2/2009 1/2/2008 1/2/2009 1/2/2009 1/2/2009 1/2/2009 1/2/2009 1/2/2009 1/2/2008 1/2/2009 1/2/2009 1/2/2009 1/2/2009 1/2/2009 1/2/2009 1/2/2008 1/2/2009	20,000,d 110,000,d 5,500,d 94 ND-50	200,000 160,000 210,000 210,000 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50 ND-50 SD-50 SD-5	ND ND 170 ND-120	\$0,000 48,000 48,000 48,000 ND-0.5 1,000 4,000 6,000 6,000 6,000 6,000 6,000 1,300 4,800 7,900 4,800 7,900 4,800 130 4,900 130 4,900 130	1,500 1,500	3,100 2,800 3,400 MW4 Installe ND-0.5 ND-	17,000 16,000 19,000 19,000 19,000 19,000 10,000 10,000 10,000 10,000 11,000	NA
124/1998 116/1997 8.26/1997 8.26/1997 8.15/1997 8.26/1997 8.15/1997 8.26/1997 8.26/1997 8.26/1997 8.26/1997 8.26/1997 8.26/1997 8.26/1997 8.26/1997 8.26/1997 17/2006 10/25/2008 10/25/2008 10/25/2008 12/15/2007 MW6 12/15/2010 12/15/2010 10/16/2009 17/7/2008 16/2006 16/2006 16/2006 16/2006 16/2006 16/2006 16/2006 16/2008 12/15/2007 MW97 7/17/2008	20,000,d 110,000,d 5,500,d 110,000,d 5,500,d 94 ND-50	200,000 160,000 210,000 210,000 ND-50 ND-5	ND ND 170 ND-170	\$0,000 48,000 48,000 48,000 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 100 14,000 130 4,800 7,900 110 110 110	1,500 1,500	3,100 2,800 3,400 MW4 Installe ND-0.5 ND-	17,000 16,000 19,000 19,000 19,000 19,000 10,000 10,000 10,000 10,000 11,000	NA
1/24/1998 11/64/1997 8/26/1997 8/26/1997 8/26/1997 8/26/1997 8/26/1997 8/26/1997 8/26/1997 8/26/1997 8/26/1997 8/26/1997 8/26/1997 8/26/1997 1/27/26/10 10/26/26/1999 10/25/2008 10/25/2008 1/27/2009 10/25/2008 12/15/2007 MW6 7/19/2011 2/14/2011 1/27/2009 10/25/2009	20,000,d 110,000,d 5,500,d 110,000,d 5,500,d 110,000,d 5,500,d 110,000,d 110	200,000 160,000 160,000 210,000 ND-50 ND-5	ND ND 170 ND-170	\$0,000 48,000 48,000 48,000 48,000 10,005 ND-0.5 130 4,600 7,600 6,000 7,600 7,600 7,900 130 130 44 48	1,500 1,500	3,100 2,800 3,400 MW4 Installe ND-0.5 ND-	17,000 16,000 19,000 10 10 10 10 10 10 10 10 10 10 10 10	NA
1/24/1998 11/6/1997 8/26/1997 8/26/1997 8/26/1997 8/26/1997 1/27/2010 1/28/2010 1/28/2010 1/28/2010 1/28/2010 1/28/2010 1/28/2010 1/28/2010 1/28/2010 1/28/2010 1/28/2010 1/28/2010 1/28/2010 1/28/2010 1/28/2010 1/28/2010 1/28/2010 1/28/2010 1/28/2010 1/28/2008 1/28/2010	20,000,d 110,000,d 5,500,d 110,000,d 5,500,d 94 ND-50 1100, c 6,200, c 6,200, c 6,200, c 6,200, c 1110, d 60 62, d	200,000 160,000 160,000 210,000 210,000 ND-50 SD-50 ND-50 ND-50 SD-50 ND-50 ND	ND ND 170 ND-170	\$0,000 48,000 48,000 48,000 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 100 4,000 4,000 6,000 6,000 4,800 7,800 6,100 4,800 7,900 130 41 7,700 41 130 41 130 41 130	1,500 2,100 3,300 3,300 42,000 ND-0.5	3,100 2,800 3,400 MW4 Installe ND-0.5 ND-	17,000 16,000 19,000 19,000 1 ND-0.5	NA
1/24/1998 11/64/1997 8/26/1997 8/26/1997 8/26/1997 8/26/1997 8/26/1997 8/26/2011 2/26/2010 1/28/2010	20,000,d 110,000,d 5,500,d 110,000,d 5,500,d 110,000,d 5,500,d 110,000,d 110	200,000 160,000 160,000 210,000 ND-50 ND-5	ND ND 170 ND-170	\$0,000 48,000 48,000 48,000 48,000 ND-0.5 100 100 100 100 100 100 100	1,500 1,500	3,100 2,800 3,400 MW4 Installe ND-0.5 ND-	17,000 16,000 19,000 10 10 10 10 10 10 10 10 10 10 10 10	NA

			I	ı			ı	I	
1998 17.2 17.2 17.2 18.2	Date	TPH-D	TPH-G	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Other Fuel Additives by 8260*
1-15 1-15	MW7 (Cont.)								
1-15 1-15	7/16/2008	78, d	280	7.0	59	ND<1.0	8.3	1.3	ND<1.0, except TBA ND<4.0
1986 1987 1988			170	4.8	48	L		5.0	
1999 1984	12/13/2007	ND<50	ND<50	9.3	ND<0.5	ND<0.5	ND<0.5	0.83	
1979 1984	MW8								
1996 1996	7/19/2011	620, d	2,500	ND<1.0	17	ND<1.0	7.7	ND<1.0	ND<1.0, except TBA ND<4.(
1677 1674 1.00	2/14/2011	1,100, a,c	1,900, a	ND<1.2	19	ND<1.2	22	ND<1.2	ND<1.2, except TBA ND<5.0
1997 1998 1996 1998	7/26/2010	1,000, c	4,400	3.4	26	ND<0.5	13	0.98	ND<0.5, except; TBA < 2.(
1996	1/27/2010	920, d	3,400	3.8	32	ND<1.0	73	2.7	ND<1.0, except TBA ND<4.0
1955 1955	10/15/2009	380, d	1,500	4.4	23	ND<0.5	3.1	0.92	ND<0.5, except; TBA = 3.2
1995-200 1996.	7/7/2009	1,000, d	2,000	3.8	28	ND<1.2	30	1.9	ND<1.2, except TBA ND<5.0
1506 1506 1506 1506 1506 150 1506 150 1506 150 1506 150	1/7/2009	1,000, c	3,100	3.8	36	ND<1.7	. 74	2.7	ND<1.7, except TBA ND<6.7
1995 1996	10/22/2008	910, c	4,800	5.2	32	ND<1.0	41	2.6	ND<1.0, except; TBA = 5.0
1985 1986	7/16/2008	1,500, c	7,000	ND<5.0	53	ND<5.0	140	7.1	ND<5.0, except TBA ND<2(
No.	4/15/2008	2,000, c	4,300	6.5	63	ND<2.5	110	9.1	ND<2.5, except TBA ND<1(
	12/13/2007	1,500, c	6,200	11	57	ND<5.0	160	18	ND<5.0, except TBA ND<5(
1922 10 10 10 10 10 10 10 1	MW9								
1925-2019 NS-50	7/19/2011	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5, except TBA ND<2.(
1979-201 NS-50	2/14/2011	52	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5, except TBA ND<2.6
1975/00 19.55 19	1/27/2010	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5, except TBA ND<2.(
18-200 NN-55	10/16/2009	ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5, except TBA ND<2.(
	7/7/2009	69	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5, except TBA ND<2.(
1975/98 NS-50 NS-50 NS-50 NS-50 NS-51 NS-52 NS		ND<50	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5, except TBA ND<2.(
100,000									ND<0.5, except TBA ND<2.(
\$1,000 \$									
MNN No.56									
1952 100 100		ND<50	ND<50	ND<0.5	1.0	ND<0.5	ND<0.5	4.5	ND<0.5, except TBA ND<5.(
245.2011 No.50									
1727-2019									
1952 1950 No.50									
1910,2000 Nb-50									
15/2006 ND-50 ND-50 ND-50 L1 ND-55									
172006 ND-50 ND-50 ND-50 11 ND-03 ND-05									
10212008									
1715/2008 ND-50									
\$\frac{1}{12\sqrt{2008}}									
No. 90									
MW11									
7/19/2011 ND-50		ND<50	ND<50	1.9	ND<0.5	ND<0.5	1.5	1.8	ND<0.5, except TBA ND<5.(
2014/2011 ND-50 ND-50 ND-65									
776/2010 ND-50 ND-50 ND-50 ND-50 ND-51 ND-65 N									
12722010 ND-50 ND-50 O.51 ND-0.5 ND-				l .					
10152009 ND-50 ND-50 36									
1772000			l						
16/2006 ND-50 ND-50 32 ND-05									
10222008 ND-50 ND-50 31 ND-05 ND-0									
ND-50									
A152008 ND-50 ND-50 26 ND-0.5									
12/14/2007 ND-50 ND-50 21 ND-0.5 ND-	4/15/2008	ND<50	ND<50	26	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
MW12	12/14/2007	ND<50	ND<50	21	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5, except TBA ND<5.0
ND-50									
214/2011 ND-50 140 4.3 ND-0.5		ND<50	ND<50	4.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5, except TBA ND<2.(
7762010									
1015/2009 71, d 230, b 70 ND-0.5 ND-							1		
77/2009 ND-50 76 7.8 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 except TBA ND-2.1 17/2006 ND-50 110.b 8.2 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 except TBA - 2.1 10/222008 54.c 200.b 111 ND-0.5	1/27/2010	58, d	200, b	6.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5, except TBA ND<2.0
17/2006 ND-50 110, b 82 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5, except TBA = 2.1	10/15/2009	71, d	230, b	7.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5, except TBA ND<2.0
1022/2008 54, c 200, b 11 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5, except TBA = 2.1									
7/16/2008 89, d 440, b 82 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5, except TBA ND-2.4 4/15/2008 76, d 180, b 9.1 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5, except TBA ND-2.4 1/2/12/2007 200, c 320, b 11 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5, except TBA ND-2.6 EWI 7/20/2011 5,600, a.d 9,700, a 1,400 3,100 ND-50 ND-50 300 ND-50, except TBA = 5,900 2/15/2011 24,000, a.d 22/200, a 2,900 6,100 1,000 600 2,000 ND-120, except TBA = 5,500 1/2/2010 6,600, d 2,400 170 220 ND-50 14 44 ND-50, except TBA = 1,600 1/2/2010 1,100, d 1,500 65 160 ND-10 ND-10 10 ND-10 except TBA = 1,600 1/2/2010 10,000, a.d 1,600, a 180 470 ND-10 38 39 ND-10, except TBA = 1,600 1/2/2009 7,500, d 9,100 2,900 3,400 ND-50 290 290 ND-50, except TBA = 1,600									
4/15/2008 76, d 180, b 9.1 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5, except TBA - 15.00 ND-0.5, except TBA - 16.00 ND-0.5 ND-0.			l						
12/13/2007 200, c 320, b 11 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5 ND-0.5, except TBA = 5.50									
EWI 7.20.2011 5.600, a.d 9.700, a 1.400 3.100 ND-50 ND-50 300 ND-50, except TBA = 5.500 ND-50 12.000, a.d 2.4000, a.d 2.2000, a 2.500 6.100 1.000 630 2.000 ND-50, except TBA = 5.500 ND-50 ND-5									
7:02:011		200, c	320, b	11	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5, except TBA ND<5.(
215/2011 24,000, a, d 22,000, a 2,900 6,100 1,000 630 2,000 ND-120, except TBA = 5,500									
7.27/2010 6.660, d 2.400 170 220 ND-5.0 14 44 ND-5.0, except TBA = 1,60K 1/28/2010 1,100, d 1,500 65 160 ND-10 ND-10 10 ND-10, except TBA = 2,40K 1/28/2010 10,000, a.d 1,600, a 180 470 ND-10 38 39 ND-10, except TBA = 1,10K 1/28/2009 7,500, d 9,100 2,500 3,400 ND-50 290 290 ND-50, except TBA = 6,60K 1/28/2009 7,500, a.d 33,000, a 16,000 10,000 1,500 1,700 3,300 ND, except TBA = 16,00K 1/28/2009 ND-50, except TBA = 16,00K 1/28/2009 ND, except TBA = 16,00K 1/28/2009 ND-50, except TBA = 16,00K 1/28/2009 ND, except TBA = 16,00K 1/28/2009			l						
1/28/2010									
10/16/2009 10,000, ad 1,600, a 180 470 ND-10 38 59 ND-10, except TBA = 1,100									
7:8/2009 7:500, d 9:100 2:500 3:400 ND-50 290 290 ND-50, except TBA = 6:400 17/2005 7:500, a, c 33:000, a 16:000 10:000 J:500 J:700 3:300 ND, except TBA = 16:000									
177/2009 7,900, a, c 33,000, a 16,000 10,000 1,900 1,700 3,300 ND, except TBA = 16,000									
10/25/2008 /,000, d 21,000 7,700 4,500 ND<120 820 390 ND, except TBA = 10,000									
7.17/2008 6,500,d 16,000 7,600 4,100 ND-100 ND-100 650 ND, except TBA = 15,000									

Date TPH-D TPH-G MTBE Benzene Toluene Ethyl-benzene Total Xylenes Other Fuel Add	tives by 8260*
4/16/2008 7,7/00,a,c 17/200,a 9,300 4,500 260 650 2,200 ND, except T 1/17/2008 133000,d 24,000 16,000 4,600 1,200 530 3,700 ND, except T 1/16/2007 12,000,a,d 14,000,a 8,300 2,600 310 270 3,000 ND, except T	lives by 8260°
1177/2008	DA = 15 000
1016/2007 12,000, a, d 14,000, a 8,300 2,600 310 270 3,000 ND, except T	
4/17/2007 5,800, d 21,000 9,600 3,700 1,400 490 1,600 ND<100, except	
1/18/2007 930, d 930, b 600 3.4 5.0 ND<0.5 41 ND<50, excep	t TBA= 6,800
11/14/2006 1,800, d 870, b 170 ND<25 ND<25 ND<25 ND<25 ND<25 ND<25, except TBA=5,900, Ethan	ol ND<2,500, Methanol ND<25,00
6/29/2006 710,d 290 21 ND<10 ND<10 ND<10 ND<10 ND<10 ND<10 ND<10, Except	TBA = 2,000
2/3/2006 1,200,d 790 3,100 ND<50 ND<50 ND<050 ND<050 ND<050 ND<50 ND<50 ND<50 ND<050 N	TBA = 13,000
11/18/2005 1,200,a 900 2,000 ND<50 ND<50 ND<050 ND<050 ND<050 ND<050 ND<050 ND<50, Except	
7/28/2005 1,800,d 1,200 17,000,+ 33 5.1 0.56 5.9 ND<250, except	
413/2005 2,200,d 380 2,700 ND<50 ND<50 ND<50 ND<50 ND<50 ND<50 ND<50, except	
1/31/2005 3,400,d 1,900 38,000 ND<1,000 ND<	
7/13/2004 3,300,a,d 2,600,a 73,000 ND<1,200 ND<1	
4/6/2004 3,4/00,a,d 2,600,a 72,000 ND<1,000 ND<1	
12/18/2003 3,000,d ND<5,000,j 160,000 220 ND<50,000 ND<50,000 73 ND<5,000, excep	
9/18/2003 8,200,a,d 7,500 220,000 330 ND<50 ND<50 ND<50 ND<50 ND<50 ND<2,500, excep	t TBA = 51,000
2/23/1993 9,600 66,000 NA 14,000 8,500 1,400 9,800 N/	
11/13/1992 13,000 62,000 NA 11,000 9,200 1,100 9,600 N/	
8/1/1992 EWI Installed	
OW1	
7/19/2011 No sample recovered 2/14/2011 No sample recovered	
7/26/2010 No sample recovered 1/27/2010 No sample recovered	
10 16 2009 No sample recovered	
7/8/2009 No sample recovered	
1/7/2005 No sample recovered	
10/22/2008 No sample recovered	
7/16/2008 No sample recovered	
4/15/2008 No sample recovered	
1/17/2008 29,000, a,c 6,900, a, h 8,800 480 ND<10 41 23 ND, except	TBA = 97
10/16/2007 No sample recovered	
7/25/2007 No sample recovered	
417/2007 No sample recovered 1/18/2007 No sample recovered	
11/14/2006 No sample recovered	
629/2006 290,000,d 24,000 NA NA NA NA NA NA NA	
2/3/2006 710,000a,4 31,000,a 210,000 NA NA NA NA NA NA	
11/18/2005 820,000,d 370,000 NA 130 ND<25 400 290 ND<25, exce	ot TBA<250
7/28/2005 230,000,a,d 10,000,a NA 1,300 30 190 72 ND<50, TB.	A ND<500
4/13/2005 590,000a,d,e 35,000,a NA 2,000 ND-50 460 140 ND-50, TB,	A ND<500
1/31/2005 No sample recovered	
10/15/2004 No sample recovered	
7/14/2004 240,000,ad 66,000,a ND<50 1,300 ND<50 1,300 56 ND<50, TB 46/2004 74,000,ad 50,000,a NA 3,100 ND<100 210 140 ND<100, TB	
2/11/2004 450,000,ad 15,000a 130,000 2,200 31 160 54 ND<25, TB	
11/21/2003 1,900,000,ad 38,000 570,000 2,000 59 190 95 ND<50,TB	
6/10/1998 OWI Installed	
OW2	
7/19/2011 No sample recovered	
2/14/2011 No sample recovered	
214/2011 No sample recovered 7/26/2010 No sample recovered	
214/2011 No sample recovered	
214.2011 No sample recovered	
214.2011 No sample recovered	
274.2011 No sample recovered	
214.2011 No sample recovered	
214.2011 No sample recovered	
2314.2011 No sample recovered	(= 2.2, TBA = 11
214.2011 No sample recovered	≤= 2.2, TBA = 11
2742-2011 No sample recovered	:= 22,TBA = 11
29142011 No sample recovered	:= 22.TBA = 11
214.2011 No sample recovered	:=22,TBA=11
214.2011 No sample recovered	:= 22.TBA=11
274-2011 No sample recovered	
2342011	
214.2011 No sample recovered	
214.2011 No sample recovered	.
214/2011 No sample recovered	.

TABLE 3
HISTORICAL WATER QUALITY DATA

Date	TPH-D	TPH-G	МТВЕ	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Other Fuel Additives by 8260*	
OW2 (Cont.)									
7/14/2004	No sample recovered								
4/6/2004	NA	69.a	NA	ND<0.62	ND<0.62	ND<0.62	ND<0.62	NA NA	
4/0/2004	NA NA	09,a	NA NA	ND<0.02	ND<0.02	ND<0.02	ND<0.02	NA NA	
2/11/2004	NA NA	210	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5, except MTBE = 6.4, TBA = 7.0	
11/21/2003						No sample recove	ered.	·	
6/10/1998						OW2 Installed	1		
ESL	100	100	5.0	1.0	40	30	20	MTBE = 5.0	
								TBA = 12.0	
Notes:	Hydrocarbons as Gasoline.								
TPH-G = Total Petroleum						-			
MTBE = Methyl-tert-Buty									
ND = Not Detected						 			
NA = Not analyzed.									
a = Laboratory analytical r	eport note: lighter than water	immiscible sheen/ pro	duct present on the	sample.					
b = Laboratory analytical r	eport note: TPH-G results ha	ave no recognizable pa	ittern.						
	eport note: TPH-D results co								
	eport note: TPH-D results co								
	eport note: TPH-D results co								
	eport note: TPH-D results cor	nsist of diesel, oil, and	gasoline range con	pounds.					
g = Laboratory analytical r		l	l						
	eport note: strongly aged gas								
i = Laboratory analytical report note: heavier gasoline range compounds are significant (aged gasoline?)									
= Laboratory analytical report note: reporting limit raised due to high NTBE content. 									
+ = analyzed by EPA 8260		issist or both dieser ar	iu on range compou	IRAN.	_		-		
+= analyzed by EPA \$2.00.									
= Inst column summarizes results for analysis using EPA neemod a 200 for non-in Fig. 10et oxygenates (TAME_DIPE_TBE_and TBA) or lead seaweres (EDB_L_2-DCA/EDC_) [TAME_DIPE_TBE_AND related seaweres									
ESL = Environmental Screening Level, developed by San Francisco Bay - Regional Water Quality Control Board (SF-RWQCB) updated May 2008, from Table A - Shallow Soil Screening									
	urrent or potential source of		T	1	(-1,-,-,-	T	l	M	
	er Liter (ug/L) unless otherv				i e	1	i e		

FIGURES

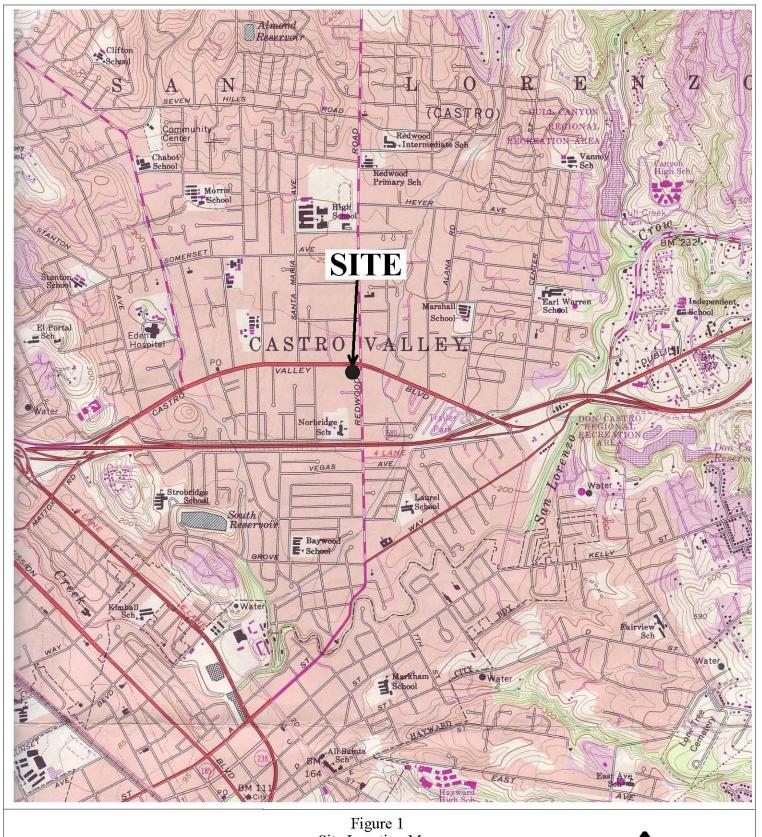
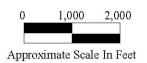


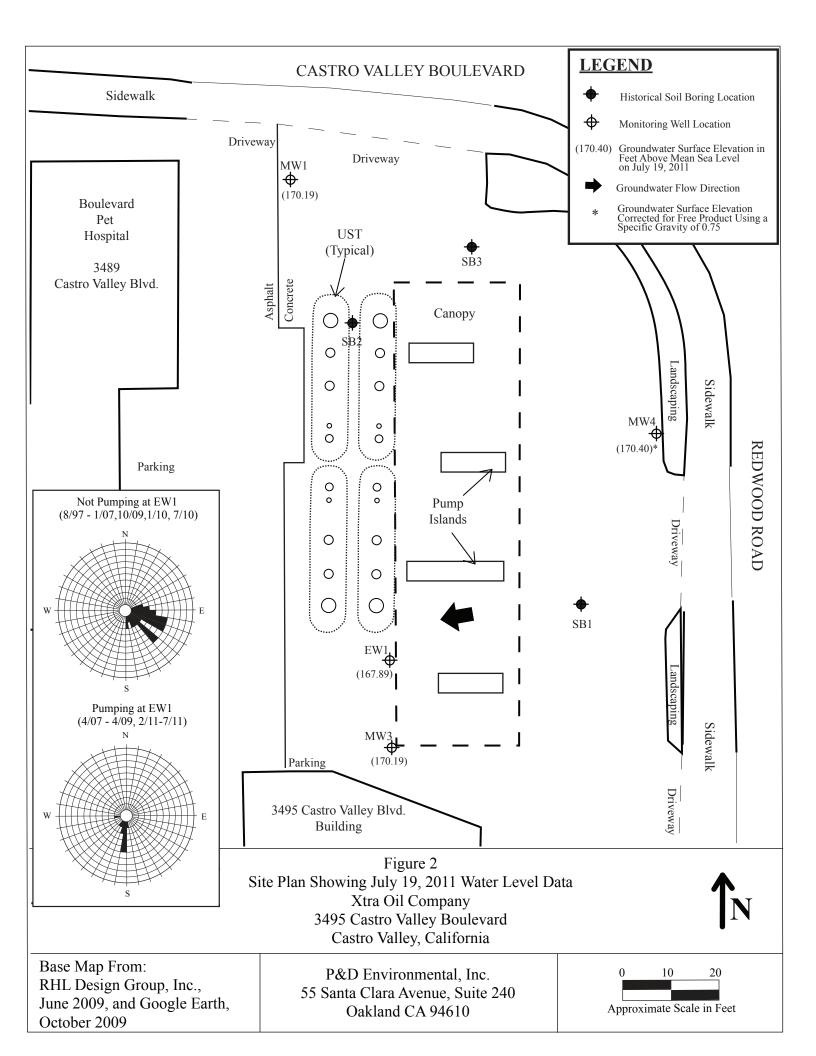
Figure 1 Site Location Map Xtra Oil Company 3495 Castro Valley Blvd. Castro Valley, California

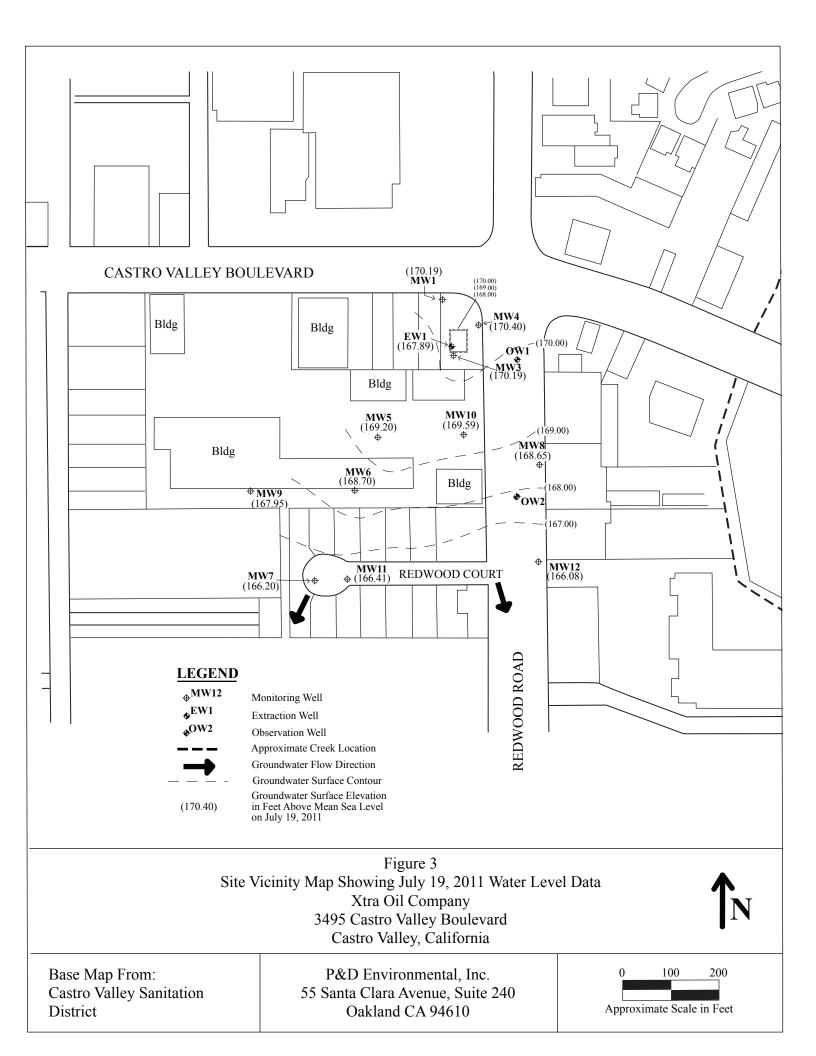


Base Map From: U.S.Geological Survey Hayward, California

Hayward, California 7.5 Minute Quadrangle Photorevised 1980 P&D Environmental, Inc. 55 Santa Clara Ave., Suite 240 Oakland, CA 94610







WELL MONITORING AND PURGE DATA SHEETS

	C.		&D Environmenta mitoring/Well Pu		510	
Site Name	Xtradil	- Castrol	_	iging Data Succe	Well No.	MWI.
Job Number	0014		··· /	Lose	to cally a	19011
	6.3	14			Sheen Nc	
TOC to Wate	^ ^	0				0
Well Depth (11				Free Product Thickness	Unwed
Well Diamet	~ ~	50			Sample Collection Method	
Flow Rate (n	114				PE1617 F 10	enstaltic pump
Start Purge T	ime					
Time	Vol. Purged (mL)	рн 7.13	Depth to Water (ft.)	$\frac{\text{Temperature }(C^{\circ})}{24.7}$	Electrical Conductivity (µS/cm) 893	Turbidity (NTU) O.O
1157	1,500 2,250	6.60	9.83	33,3	791	0.00
1902	3,000	6.89	10.19	33.0 23.0	775 778	0.00
	End	lurge				
	- Army of MARA - Allifor - 1 pages and a set also					1979s c 4 d 1 1
						words Station
MILES AND THE STREET						
					A. A. Allinoid Company	
				manus ataut = 50.000 years		
				and the state of t		

April 1985 -	A PARAMETER VILLA					
	COMMENT OF STREET, STR		-			
<u>NOTES</u>						
Stability Para p.H. = +/- 0.1 Sp. Conducti Turbidity = -	vity = +/-3%	Tubing	set e 1	d'below	Toc	
		Noshe		che oden		
			•	Sangle tir	1215	

P&D Environmental

Groundwater Monitoring/Well Purging Data Sheet									
Site Name	Xtra Oil	-Castol	Well No. AAWA	MW3 sarplen					
Job Number _	- card		1	monitored-	Date 7/19 + 3	0/2011			
TOC to Water	(ft.)	27			Sheen Ves	· 			
Well Depth (f		6			Free Product Thickness	$\mathcal{O}_{}$			
Well Diamete	4 /		Sample Collection Method New Unused PEtuling or penistaltic pump						
Flow Rate (mi	L/minute) $\frac{3}{2}$	50			PE tubing or peristalticpemp				
Start Purge Ti	me <u>131(</u>				- (,			
Time 1314 1317 1320 1323 1326	Vol. Purged (mL) 750 1,500 2,250 3,000 3,750 End	6.89 6.52 6.62 6.68 6.68	Depth to Water (ft.) 9,46 9,67 9,91 10.10 10.21	Temperature (C°) 24.6 23.7 23.4 23.1 23.0	Electrical Conductivity (µS/cm) 1,407 1,368 1,366 1,366 1,354	Turbidity (NTU) 0,00 0.00 0.00 0.00			
				-					
NOTES		4-							
Stability Param p.H. = +/- 0.1 Sp. Conductiv Turbidity == +	rity = +/-3%	T	ubirg se	r e 12	below Too				

Shee no mod phe edor. Sample time > 1335

P&D Environmental

Groundwater Monitoring/Well Purging Data Sheet	•
Site Name Atra Oil - Costro Valley	Well No
lob Number 0014	Date 7/19/11
TOC to Water (ft.)	Sheen NA
Well Depth (ft.)	Free Product Thickness 0,56
Well Diameter 4 11	Sample Collection Method Sph_
Flow Rate (mL/minute)	Encountered - No Sample Collected
Start Purge TimeN/K	·
$\begin{array}{c cccc} & Vol. & & & \\ & \underline{Purged} & & \underline{Depth\ to} \\ \hline Time & (mL) & pH & \underline{Water\ (ft.)} & \underline{Temperature\ (C^\circ)} \\ \end{array}$	Electrical Conductivity Turbidity (uS/cm) (NTU)
Top of Steel tape @	topof ciring = 9.5'
	
= 10,5"	
Top of water :	= 1.5"
9.5' - 10.5'' = 9.5' - 0.875' = 8.63' 9.5' - 1.5'' = 9.5' - 0.135 = 9.38'	
9.5' - 1.5'' = 9.5' - 0.125 = 9.38'	
FP Hickness = 0.75'	
Ff correction = 0.75' x 0.75 = 0.56'	
Corrected water Level = 9.38'-0.56'= 8.82	Toc to H20
NOTES	sic

Stability Parameters p.H. = \pm - 0.1 Sp. Conductivity = \pm - 10% Turbidity = \pm - 10% P&D Environmental roundwater Monitoring/Well Purging Data Shee

				rging Data Sheet				
Site Name	Xtra Oil-	- Castro	Valley	well No. MW5				
Job Number	0.01	4	,	Monitore	Date 7/19 + 30	12011 sarplu		
TOC to Water	10	,)		S	Sheen _ NO	Sarpia		
Well Depth (f	0.1	8		F	Free Product Thickness	Ø		
Well Diamete	0 11				Sample Collection Method \angle	Vor Unnied		
	0	-5 0			PE tubing or per			
Flow Rate (m	L'illinuic)			_	TC Thomas V per	() (A) () (
Start Purge T	ime (CO							
<u>Time</u>	<u>Vol.</u> <u>Purged</u> (mL)	рН	Depth to Water (ft.)	Temperature (C°)	<u>Electrical</u> <u>Conductivity</u> (<u>μS/cm)</u>	Turbidity (NTU)		
1007	750	7.66	7.08	23.9	663	0.00		
1010	1,500	6.76	7.16	22.7	531	0.00		
1013	2,250	6.53	7.17	22.3	<u>532</u>	0,00		
1016	3,000	639	7.19	21.7	540	0.00		
1019	3,750	6.31	7.19	21.9	573	0.00		
	€	nd Durge						
				• • • • • • • • • • • • • • • • • • • •				
76 HPV								
						44.18		
w								
				11000				
<u>NOTES</u>								
Stability Para								

Stability Parameters
p.H. = +/- 0.1
Sp. Conductivity = +/-3%
Turbidity = +/- 10%

Thing Set & 12 below TOC (screen)

No Sheen + no odor-

Sample time => 1030

P&D Environmental

	. / /	•		irging Data Sheet			
Site Name	Xtra Dil	- Castr	Well No. MW6				
Job Number	001,		·		Date 7/19/11		
TOC to Wate	r (ft.)	54			Sheen		
Well Depth (ft.) 0.	<u> </u>			Free Product Thickness	$Q_{}$	
Well Diamete					Sample Collection Method		
Flow Rate (m	(La minute)	50			PE tuking op	enistaltic pu	
Start Purge T	ime 6 (<u> </u>			•	·	
Time 1608 1611 1614	Vol. Purged (mL) 750 1,500 2,250	6.94 7.06 7.08	Depth to Water (ft.) 6.15 7.36 7.71	Temperature (C°) 26, 1 25, 4 25, 8	Electrical Conductivity (µS/cm) 905 709 675	Turbidity (NTU) 3.04 4.35 0.04	
1617	3,000	7.06	8.11	25.6	671	0.00	
1630	3,750	7.08	8.41	25.7	644	0.00	
	— End	· Durge					

				494			
	And the second						

						40.4 %	
							
	AND IN A				,		
NOTES							
Stability Param p.H. = +/- 0.1 Sp. Conductiv Turbidity = +	vity = +/-3%				d Chistory of des	atering)	
No Sheen, med-strong phooder Sample time = 1430 1630							

P&D Environmental

	Gr			rging Data Sheet	4	
Site Name	Hra Oil -	Castro V	elky		Well No. MW7	
Job Number _	0017		'		Date 7 19/11	
TOC to Water	(ft.)	4			Sheen <u>Vo</u>	
Well Depth (ft	.)(0	2			Free Product Thickness	<u> </u>
Well Diameter	<u> </u>				Sample Collection Method PEtubing + 1	New innused
Flow Rate (ml	$\sqrt{\text{minute}} = \frac{2}{2}$	50			Pt tubing a f	enstalte fump
Start Purge Tir	me 1214					•
1326 1326 1330 1330 1330	Vol. Purged (mL) 1,000 1,500 2,250 3,000 3,750 En	7.36 7.36 7.38 7.32 7.38	Depth to Water (ft.) 5.27 6.02 6.42 6.83 7.33	Temperature (C°) 26.3 25.1 25.5 75.4 25.0	Electrical Conductivity (µS/cm) 755 799 733 488 561	Turbidity (NTU) 2.29 0.00 0.28 0.00 0.60
						1999
	Al-Larent				Α	

				41-4 10-4	4 04.93	
NOTES						
Stability Param p.H. = +/- 0.1 Sp. Conductive Turbidity = +/-	ity = +/-3%	Tubing	s, t (c	botton of	well (histor	y of dewatering)
·			No 5	heen ano	phc odo-	
				San	ple time => 12	40
					•	1 =

P&D Environmental

			nitoring/Well Pur	ging Data Sheet		
Site Name	Atra al	- Cartro	Valley		Well No. MW8	
Job Number _	001	4	1		Date 7/19/11	
TOC to Water	(ft.) 7.3	5			Sheen No	
Well Depth (fi	L)	4			Free Product Thickness	<u> </u>
Well Diameter	21	· · · · · · · · · · · · · · · · · · ·			Sample Collection Method	
Flow Rate (ml		50			PE tubing o Pen	Staltic Pung
Start Purge Ti	me150	7			,	
Time 1510 1513 1516	Vol. Purged (mL) 750 1,500	6.90 6.81	Depth to Water (ft.) 7.51 7.54 7.55	Temperature (C°) 21.3 21.0	Electrical Conductivity (µS/cm) 775 754 768	Turbidity (NTU) 029 0,86 0,00
1519	3,000	6.66	7.55	20,8	776	0,00
1572	3,750	6.56	7.55	20,8	778	0.00
				- Au		
						100 m
440	* Yada ali					THE PARTY NAMED IN COLUMN TWO IS NOT THE PARTY NAMED IN THE PARTY NAMED IN THE PARTY
and the second date.	Prince	-			·	
						
					WW.,W.,	
	M		~ ****			
			and the state of t			
	No. Co. Market					
NOTES						
Stability Param p.H. = +/- 0.1 Sp. Conductiv Turbidity = +/	$ity = \pm /-3\%_0$	Tubing	set @ ~	2 from	botton of well.	
		Nost	rea, Very	light phe or	dor Sample to	me => 1530

P&D Environmental
Groundwater Monitoring/Well Purging Data Sheet

Site Name	tra Dil	- Castro	Valley		Well No. MWG	
Job Number	७०।	.)	,		Date 7/19/11	
TOC to Water	711	7			Sheen No	
Well Depth (ft.	217	,			Free Product Thickness	Ø
Well Diameter	011				Sample Collection Method _	New unused
	/minute) $\sim \frac{1}{6}$	150			PEtubing + pe	
Start Purge Tir	100	6				, ,
Time 1309 1312	Vol. Purged (mL) 750 1,500 2,250	776 7,44 7.19	Depth to Water (ft.) 7.96 8.50 8.72	Temperature (C°) 24.7 23.5 23.6	Electrical Conductivity (µS/cm) 102 73	Turbidity (NTU) 4.92 0.58 0.00
1318	3,000	7.07	886	22,2	71	0.00
1391	3,750	6.98	8.89	22.1	91	0.00
т.	End	purge		A 011		
					·	
	·		### ## ## ## ## ## ## ## ## ## ## ## ##			
		3 -1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1				
	1.20mg/					
NOTES						
Stability Param p.H. = +/- 0.1 Sp. Conductivi Turbidity = +/-		Tubing	sit ~	12 btoca	sins (history.	it drawdown)
٢	od-stron	g HaS	odor	5,0		
	No st	iten & N	sphc ode	or. Sample	time => 1330	

P&D Environmental

	<i>f</i> :		nitoring/Well Pur	ging Data Sheet		
Site Name	tra Oi	1-Cautre	o Valky	We	II No. MWIL	V say bel
Job Number _	001	4	,	ments red Da	te	3/2011
TOC to Water	(ft.) <u>(HY</u>	\		She	een V o	 -
Well Depth (ft	.) <u>31.</u>	6		Fre	e Product Thickness	_9
Well Diameter	21'				mple Collection Method _	
Flow Rate (ml	$-/minute) = \frac{\lambda}{\lambda}$	0		<u>+</u>	Ething or pla	istatticpury
Start Purge Tir	ne 104	5			ţ	t (
Time 1048 1051 1054 1057 1100	Vol. Purged (mL) 750 1,500 3,250 3,750	7.31 7.34 7.14 7.08 7.07	Depth to Water (ff.) 7.68 8.19 8.47 8.59 8.65	Temperature (C°) 3 5.8 24.9 24.1 23.9 33.4	Electrical Conductivity (uS/cm) 145 124 121 122	Turbidity (NTU) 0.00 2.03 0.54 0.49 0.80
		End P	nrse			

				···	1 of 1 th	
Many # Pro-						
	10.55					

NOTES		Tubing s	set 0 12	below Toc		
Stability Param p.H. == +/- 0.1 Sp. Conductivi Turbidity = +/-	ty = +/-3%			sample time :	•	

P&D Environmental
Groundwater Monitoring/Well Purging Data Shee

			iitoring/Well Purg	ing Data Sheet			
Site Name	tra Dil-	Castro 1	lalle x		Well No. MWII		
Job Number	0014		1		Date 7/19/1)		
TOC to Water	(ft.) 4.6	<u>}</u>			Sheen No		
Well Depth (ft.	14.	4			Free Product Thickness	Ø	
Well Diameter	211				Sample Collection Method	Lew Unusel	
Flow Rate (mL	$minute) \sim 3$	<u>50</u>			PE tubing or Pi	enistaltic pump	"
Start Purge Tin	1177	<u>.</u>			, ,	(
Time 1136 1139 1142 1143 1148	Vol. Purged (mL) 750 1,500 3,250 3,750 End	8.41 8.13 7.74 7.74 7.74 7.74 7.74 7.74 7.74 7.74 7.74 7.74 7.74 7.74	Depth to Water (ft.) 5.56 6.53 7.74 8.86 9.81	Temperature (C°) - 23.5 - 23.0 - 23.1 - 23.1 - 23.1	Electrical Conductivity (µS/cm) 770 566 548 474 428	Turbidity (NTU) 653 0.00 0.46 0.82	
NOTES		— [1		. / .)			
Stability Parame p.H. = +/- 0.1 Sp. Conductivity Furbidity = +/-	/ = +/-3%	(μ ω , Νο	shoens	ni odon	of well (history - Sample ting	ny of demoter	(رود ن

P&D Environmental Groundwater Monitoring/Well Purging Data Sheet

	Site Name	Xtra Di	1-Castro	Valley		Well No. MW/	2
	Job Number _	0014		1		Date 7/19/11	_
	TOC to Water	(ft.) 7.9	0			Sheen No	
	Well Depth (ft.) 12.	5			Free Product Thickness	\mathscr{Q}
	Well Diameter		The solution of the solution o			Sample Collection Method	New unwed
	Flow Rate (mL	$f_{minute)} $	50			PE tubing +	penstaltic pi
	Start Purge Tin	^{ие} 1439	\			,	,
		<u>Vol.</u> Purged		Depth to		<u>Electrical</u> Conductivity	Turbidity
	Time	(mL)	<u>рН</u>	Water (ft.)	Temperature (C°)	(μS/cm)	(NTU)
1425	1417	750	7.13	8.03	24.8	687	301
	1498	1,500	7.08	8.04	23.6	663	35,33
	1431	3,250	7.09	8.05	22.5	662	0.00
	1435	3,750	707	8.05	33.8	663	0.00
	1437	3,750	6.91	8.05	77,4	6 59	0.00
				End Purge	A MICH TOWNSHIP OFFICE AND A STATE OF THE ST		
	The America					Photographic constitution of the constitution	and the second s
	-			The definition of the second			Control Management (September 1994)
						Management and an artist of the second and are	reproprieta esta esta esta esta esta esta esta e
							PPP 60 PP and a Backer de Salar des
						V-170% do	
	NOTES						
	NOTES Stability Param	eters					
	p.H. = +/- 0.1 Sp. Conductivit		T.L.	et @ both	~ F 1.011		
	Turbidity = + -	10%	•				
			No she	er drood			
				C. Anoli	time 14	45	
				DVI. L	, \		

P&D Environment

		oundwater Mo	nitoring/Well Pu		11	
Site Name	Xta Dil	Cartro 1	alley	Wel	INO. EWI	Served
Job Number	0014		,		7/19 12	0/2:11
TOC to Water	(ft.) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	9		She	en yes	
Well Depth (ft.	<u>, 13.2</u>			Free	Product Thickness	<u>Ø</u>
Well Diameter	(1)			Sam	ple Collection Method	New consisted
Flow Rate (mL	/minute)	1/A		P	€ tubing +1	bailer
	ne				Visposabli	bailer
Time 1248	Vol. Purged (mL)	68 ^L	Depth to Water (ft.)	Temperature (C°)	Electrical Conductivity (µS/cm) 892	Turbidity (NTU) 32-6 4
						·
						
						11
						n
			-			
				_ 1411		
				·		
					and the second s	
NOTES	•					
Stability Param p.H. = +/- 0,1 Sp. Conductivi Turbidity = +/-	ty = +/-3%	Pun Sa	ng sunn. ngle time	79 → 1255		

Sheen + Strong phe odor

P&D Environmental

				rging Data Sheet	4	
Site Name	Xtra 611	- Castr	Ualley		Well No. OW 1	
Job Number	0014		,		Date +/19/11	
TOC to Water	(ft.)	7.2			Sheen NA	
Well Depth (ft.	7.	2			Free Product Thickness	Ø
Well Diameter		- 11			Sample Collection Method	
Flow Rate (mL	/minute)	SIA			Insufficient Wat	er-no sample collected
Start Purge Tin	ne	<i>K</i>				
<u>Time</u>	Vol. Purged (mL)	<u>µ</u>	Depth to Water (ft.)	Temperature (C°)	Electrical Conductivity (μS/cm)	Turbidity (NTU)
					All Andrews	
		$\overline{}$			<u> </u>	
				- 14% - 28		
						·
			$\overline{}$			
				Sic		
_				1		
	and a fee offsets did a					
NOTES						
Stability Param p.H. = +/- 0.1 Sp. Conductivit Turbidity = +/-	ty = +/-3%	Λ	o Samp	le collected,	; Insufficient	Water

P&D Environmental **Groundwater Monitoring/Well Purging Data Sheet** Xtra Oil - Castro Valley Well No. 0014 Date Job Number TOC to Water (ft.) _ Free Product Thickness Well Depth (ft.) Sample Collection Method Well Diameter Flow Rate (mL/minute) Start Purge Time _ <u>Vol.</u> Electrical Depth to Conductivity **Turbidity** Purged (NTU) (mL)<u>pH</u> Water (ft.) Temperature (C°) (µS/cm) <u>Time</u> Sic

NOTES

Stability Parameters
p.H. = +/- 0.1
Sp. Conductivity = +/-3%
Turbidity = +/- 10%

No sample collected, insufficient water

LABORATORY REPORTS AND CHAIN OF CUSTODY DOCUMENTATION

Analytical Report

P & D Environmental	Client Project ID: #0014; Xtra Oil; 3495 Castro Valley Blvd. Castro V	Date Sampled:	07/19/11-07/20/11
55 Santa Clara, Ste.240	valley Bivd. Casdo v	Date Received:	07/21/11
33 Sunta Ciara, Sto.2 10	Client Contact: Steve Carmack	Date Reported:	07/28/11
Oakland, CA 94610	Client P.O.:	Date Completed:	07/27/11

WorkOrder: 1107590

July 28, 2011

Dear Steve:

Enclosed within are:

- 1) The results of the 11 analyzed samples from your project: #0014; Xtra Oil; 3495 Castro Valley Blvd. Castro
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

The analytical results relate only to the items tested.

P & D ENVIRONMENTAL, INC. 55 Santa Clara Ave, Suite 240 Oakland, CA 94610

CHAIN OF CUSTODY RECORD

Oakland, CA 94610 (510) 658-6916		-		CHAIN OF COS				7.7	7	7.7	1 1	
PROJECT NUMBER:		Pf	ROJECT	ta Dil				No.	Hook	//	/ /	
			340	15 Carta Valley Blud. Castro Valley		,,,		1	1/	//	٧ /	
	Steve Cornecte Steve Cornecte			\(\sigma\)	NUMBER OF CONTAINERS	The second secon		//	PRESCRAM	REM	ARKS	
SAMPLE NUMBER	DATE	TIME	TYPE	SAMPLE LOCATION	CON	1	1	///		a a	/	
MWI	7/20/11	1215	HaD		7	X	X			ICE	Normal Tun	word
MW3	1	1335	0		7	X	X					
MW5	V.	1030			7	X	X					
MW6	71911	1430			7	X	X		1			
MW7		1240			7	X	X					
MW8		1530			7	X	X					
MW9	4	1330			6	X	X		11			
MWIO	7/20/11	1115			7	X	X					
MWI	7/19/1	1305			7	X	X					
WICE WHY MW12	1	1445			17	X	X	11	11	1		-
EWI	7/20/4	1255	V	10	7	IX	X			V	V	V
				ICE/t° \								
				HEAD SPACE ABSENT	CONTAIL	ERS						
				VOAS I O&G	PRESER			В				
				PRESERVATION	alcials							
RELINDUISHED BY:		7	DATE/ 2)//	TIME RECEIVED BY: (SIGNATURE)		TOTA	(146 3) L, 340, G (1845 3)	OF SAMPLES HEPHENT) OF CONTAINS HEPHENT)	× 76		oratory: Iclampbell An	
RELINQUISITED BY:	SICHATURE		DATE Z)/I)	TIME RECEIVED BY: (SIGNATURE)		LA	BORA	TORY C	delih	T: LAB	ORATORY PHONI	HUMBE
RECINQUISHED BY:	(SICNATURE	1) /	BATE	TIME RECEIVED FOR LABORATORY (SIGNATURE)	Y BY:	T		SAMPLE	ANAL	YSIS R	EQUEST SHEET S (X)NO	
Results and billing P&O Environmental, lab@pdenviro.com	to: Inc.			RFMARKS;								

McCampbell Analytical, Inc.

CHAIN-OF-CUSTODY RECORD

ClientCode: PDEO

WorkOrder: 1107590

Page 1 of 1

1534 Willow Pass Rd Pittsburg, CA 94565-1701 (925) 252-9262

WaterTrax WriteOn □ EDF Excel Fax **✓** Email HardCopy ☐ ThirdParty J-flag Bill to: Report to: Requested TAT: 5 days Steve Carmack Email: lab@pdenviro.com Accounts Payable P & D Environmental Xtra Oil Company cc: Date Received: 07/21/2011 PO: 55 Santa Clara, Ste.240 2307 Pacific Avenue Oakland, CA 94610 ProjectNo: #0014; Xtra Oil; 3495 Castro Valley Blvd. Alameda, CA 94501 Date Printed: 07/21/2011 (510) 658-6916 Castro Valley FAX: 510-834-0152

					Requested Tests (See legend below)											
Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1107590-001	MW 1	Water	7/20/2011 12:15		Α	В										
1107590-002	MW 3	Water	7/20/2011 13:35		Α	В										
1107590-003	MW 5	Water	7/20/2011 10:30		Α	В										
1107590-004	MW 6	Water	7/19/2011 14:30		Α	В										
1107590-005	MW 7	Water	7/19/2011 12:40		Α	В										
1107590-006	MW 8	Water	7/19/2011 15:30		Α	В										
1107590-007	MW 9	Water	7/19/2011 13:30		Α	В										
1107590-008	MW 10	Water	7/20/2011 11:15		Α	В										
1107590-009	MW 11	Water	7/19/2011 12:05		Α	В										
1107590-010	MW 12	Water	7/19/2011 14:45		Α	В										
1107590-011	EW 1	Water	7/20/2011 12:55		Α	В										

Test Legend:

1	G-MBTEX_W	2 IBTEXOXYPBSCV-8260B_V	3	4	5
6		7	8	9	10
11		12			

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A, 010A, 011A contain testgroup.

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).

Hazardous samples will be returned to client or disposed of at client expense.

Prepared by: Zoraida Cortez

Sample Receipt Checklist

Client Name:	P & D Environme	ntal			Date a	and Time Received:	7/21/2011 5	5:55:21 PM
Project Name:	#0014; Xtra Oil; 3	495 Castro Valley Blvd	. Castro	Valley	Check	dist completed and re	eviewed by:	Zoraida Cortez
WorkOrder N°:	1107590	Matrix: Water			Carrie	er: Rob Pringle (M	(1Al Courier)	
		<u>Cha</u>	ain of Cı	ustody (C	COC) Informa	<u>tion</u>		
Chain of custody	/ present?		Yes	✓	No \square			
Chain of custody	signed when relinq	uished and received?	Yes	✓	No 🗌			
Chain of custody	agrees with sample	labels?	Yes	✓	No 🗌			
Sample IDs note	ed by Client on COC	?	Yes	✓	No 🗌			
Date and Time o	of collection noted by	Client on COC?	Yes	✓	No 🗌			
Sampler's name	noted on COC?		Yes	✓	No \square			
			Sample	e Receipt	t Information			
Custody seals in	tact on shipping con	tainer/cooler?	Yes		No 🗌		NA 🗹	
Shipping contain	ner/cooler in good co	ndition?	Yes	✓	No \square			
Samples in proper containers/bottles?			Yes	✓	No 🗌			
Sample containers intact?			Yes	✓	No 🗌			
Sufficient sample	e volume for indicate	ed test?	Yes	✓	No 🗌			
		Sample Pres	servatio	n and Ho	old Time (HT)	Information		
All samples rece	eived within holding t	me?	Yes	•	No 🗌			
Container/Temp	Blank temperature		Coole	er Temp:	1.2°C		NA \square	
Water - VOA via	ls have zero headsp	ace / no bubbles?	Yes		No 🗸	No VOA vials subm	itted	
Sample labels ch	hecked for correct p	eservation?	Yes	✓	No 🗌			
Metal - pH accep	otable upon receipt (pH<2)?	Yes		No \square		NA 🗹	
Samples Receive	ed on Ice?		Yes	✓	No \square			
		(Ісе Тур	pe: WE	TICE)			
* NOTE: If the "N	No" box is checked,	see comments below.						
			===					
Client contacted:	:	Date contac	cted:			Contacted	by:	
Comments:								



P & D Environmental	Client Project ID: #0014; Xtra Oil;	Date Sampled: 07/19/11-07/20/11
55 Santa Clara, Ste.240	3495 Castro Valley Blvd. Castro V	Date Received: 07/21/11
55 Sunta Ciara, Stc.240	Client Contact: Steve Carmack	Date Extracted 07/22/11-07/27/11
Oakland, CA 94610	Client P.O.:	Date Analyzed 07/22/11-07/27/11

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*

Analytical methods: SW8015Bm Extraction method: SW5030B Work Order: 1107590 TPH(g) Client ID DF Lab ID Matrix % SS Comments 001A MW 1 W 7600 10 91 d1 002A MW 3 W 30,000 33 115 d1 003A MW 5 W ND 1 99 W 004A MW₆ 45,000 100 104 d1 005A MW 7 W 420 1 111 d1 W 2 006A MW8 2500 121 d1 007A MW 9 W ND 100 008A MW 10 W ND 107 009A MW 11 W ND 1 109 MW 12 W 010A ND 1 102 011A EW 1 W 9700 10 117 d1,b6 Reporting Limit for DF =1; W 50 $\mu g/L$ ND means not detected at or S NA above the reporting limit

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: b6) lighter than water immiscible sheen/product is present

d1) weakly modified or unmodified gasoline is significant

Angela Rydelius, Lab Manager

^{*} water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in μ g/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

[#] cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference. %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

P & D Environmental	Client Project ID: #0014; Xtra Oil;	Date Sampled: 07/19/11-07/20/11
55 Santa Clara, Ste.240	3495 Castro Valley Blvd. Castro V	Date Received: 07/21/11
33 Sunta Ciara, Stc.2 10	Client Contact: Steve Carmack	Date Extracted: 07/25/11-07/26/11
Oakland, CA 94610	Client P.O.:	Date Analyzed: 07/25/11-07/26/11

Oxygenates, MBTEX & Lead Scavengers by GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1107590

Lab ID 1 Client ID	MW 1	1107590-002B MW 3	1107590-003B	1107590-004B							
Client ID	MW 1	MW 3									
		141 44 2	MW 5	MW 6	Reporting DF						
Matrix	W	W	W	W							
DF	50	1000	1	330	S	W					
Compound		Conce	entration		ug/kg	μg/L					
tert-Amyl methyl ether (TAME)	ND<25	ND<500	ND	ND<170	NA	0.5					
Benzene	120	17,000	ND	4600	NA	0.5					
t-Butyl alcohol (TBA)	ND<100	3200	6.3	ND<670	NA	2.0					
1,2-Dibromoethane (EDB)	ND<25	ND<500	ND	ND<170	NA	0.5					
1,2-Dichloroethane (1,2-DCA)	ND<25	ND<500	ND	ND<170	NA	0.5					
Diisopropyl ether (DIPE)	ND<25	ND<500	ND	ND<170	NA	0.5					
Ethylbenzene	710	520	ND	2300	NA	0.5					
Ethyl tert-butyl ether (ETBE)	ND<25	ND<500	ND	ND<170	NA	0.5					
Methyl-t-butyl ether (MTBE)	ND<25	1400	1.9	ND<170	NA	0.5					
Toluene	52	ND<500	ND	1500	NA	0.5					
Xylenes, Total	490	ND<500	ND	9500	NA	0.5					
	Surrogate Recoveries (%)										
%SS1:	101	103	104	103							
%SS2:	100	99	99	99							
%SS3:	91	89	88	91							
Comments											

^{*} water and vapor samples are reported in μg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in μg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

b6) lighter than water immiscible sheen/product is present



P & D Environmental	Client Project ID: #0014; Xtra Oil;	Date Sampled: 07/19/11-07/20/11
55 Santa Clara, Ste.240	3495 Castro Valley Blvd. Castro V	Date Received: 07/21/11
35 Santa Ciara, Stc.2 10	Client Contact: Steve Carmack	Date Extracted: 07/25/11-07/26/11
Oakland, CA 94610	Client P.O.:	Date Analyzed: 07/25/11-07/26/11

Oxygenates, MBTEX & Lead Scavengers by GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1107590

Extraction Method: SW5030B Analytical Method: SW8260B Work Order										
Lab ID	1107590-005B	1107590-006B	1107590-007B	1107590-008B						
Client ID	MW 7	MW 8	MW 9	MW 10	Reporting DF					
Matrix	W	W	W	W		•				
DF	5	2	1	1	S	W				
Compound		Conce	entration		ug/kg	μg/L				
tert-Amyl methyl ether (TAME)	ND<2.5	ND<1.0	ND	ND	NA	0.5				
Benzene	130	17	ND	ND	NA	0.5				
t-Butyl alcohol (TBA)	10	ND<4.0	ND	ND	NA	2.0				
1,2-Dibromoethane (EDB)	ND<2.5	ND<1.0	ND	ND	NA	0.5				
1,2-Dichloroethane (1,2-DCA)	ND<2.5	ND<1.0	ND	ND	NA	0.5				
Diisopropyl ether (DIPE)	ND<2.5	ND<1.0	ND	ND	NA	0.5				
Ethylbenzene	25	7.7	ND	ND	NA	0.5				
Ethyl tert-butyl ether (ETBE)	ND<2.5	ND<1.0	ND	ND	NA	0.5				
Methyl-t-butyl ether (MTBE)	6.7	ND<1.0	ND	ND	NA	0.5				
Toluene	ND<2.5	ND<1.0	ND	ND	NA	0.5				
Xylenes, Total	ND<2.5	ND<1.0	ND	ND	NA	0.5				
	Surrogate Recoveries (%)									
%SS1:	105	103	105	106						
%SS2:	100	99	100	99						
%SS3:	89	94	91	91						
Comments										
	•									

^{*} water and vapor samples are reported in μg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in μg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

b6) lighter than water immiscible sheen/product is present



P & D Environmental	Client Project ID: #0014; Xtra Oil;	Date Sampled: 07/19/11-07/20/11
55 Santa Clara, Ste.240	3495 Castro Valley Blvd. Castro V	Date Received: 07/21/11
33 Sunta Ciara, Stc.2 10	Client Contact: Steve Carmack	Date Extracted: 07/25/11-07/26/11
Oakland, CA 94610	Client P.O.:	Date Analyzed: 07/25/11-07/26/11

Oxygenates, MBTEX & Lead Scavengers by GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 1107590

Extraction Method: SW5030B	Ana	Work Order:	Work Order: 1107590		
Lab ID	1107590-009B	1107590-010B	1107590-011B		
Client ID	MW 11	MW 12	EW 1	Reporting 1	
Matrix	W	W	W		_1
DF	1	1	100	S	W
Compound		Conce	entration	ug/kg	μg/L
tert-Amyl methyl ether (TAME)	ND	ND	ND<50	NA	0.5
Benzene	ND	ND	3100	NA	0.5
t-Butyl alcohol (TBA)	ND	ND	5900	NA	2.0
1,2-Dibromoethane (EDB)	ND	ND	ND<50	NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND	ND	ND<50	NA	0.5
Diisopropyl ether (DIPE)	ND	ND	ND<50	NA	0.5
Ethylbenzene	ND	ND	ND<50	NA	0.5
Ethyl tert-butyl ether (ETBE)	ND	ND	ND<50	NA	0.5
Methyl-t-butyl ether (MTBE)	ND	4.4	1400	NA	0.5
Toluene	ND	ND	ND<50	NA	0.5
Xylenes, Total	ND	ND	300	NA	0.5
	Surre	ogate Recoveries	(%)	•	
%SS1:	106	105	104		
%SS2:	99	98	99		
%SS3:	92	92	89		
Comments			b6		

^{*} water and vapor samples are reported in μg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in μg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

b6) lighter than water immiscible sheen/product is present



McCampbell Analytical, Inc. "When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269

		Date Sampled:	07/19/11-07/20/11
	3495 Castro Valley Blvd. Castro V	Date Received:	07/21/11
55 Santa Clara, Ste.240	Client Contact: Steve Carmack	Date Extracted:	07/21/11
Oakland, CA 94610	Client P.O.:	Date Analyzed:	07/23/11-07/27/11

Total Extractable Petroleum Hydrocarbons*

Extraction method: SW3510C Analytical methods: SW8015B Work Order: 1107590 TPH-Diesel TPH-Motor Oil Lab ID Client ID DF % SS Matrix Comments (C10-C23) (C18-C36) 1107590-001A MW 1 W 2900 ND 1 100 e4,e2 1107590-002A MW 3 4000 560 1 98 e4,e1 1107590-003A MW 5 W 94 ND 1 100 e2 1107590-004A MW 6 W 920 ND 1 98 e4,e2 1107590-005A MW 7 W ND ND 1 99 1107590-006A MW 8 W 620 ND 1 95 e4,e2 1107590-007A W ND ND 1 99 MW 9 1107590-008A W ND ND 1 100 MW 10 1107590-009A 1 100 MW 11 W ND ND 1107590-010A MW 12 W ND 1 97 ND 1107590-011A EW 1 W 5600 1500 1 110 e4.e1.b6

Reporting Limit for DF =1; ND means not detected at or	W	50	250	μg/L
above the reporting limit	S	NA	NA	mg/Kg

^{*} water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / SPLP / TCLP extracts are reported in µg/L.

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

b6) lighter than water immiscible sheen/product is present

e1) unmodified or weakly modified diesel is significant

e2) diesel range compounds are significant; no recognizable pattern

e4) gasoline range compounds are significant.

Angela Rydelius, Lab Manager

DHS ELAP Certification 1644

[#] cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 59876 WorkOrder: 1107590

EPA Method: SW8021B/8015Bm	Extrac	tion: SW	5030B					S	piked Sam	ple ID:	1107561-0	01A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acc	eptance	Criteria (%)	
	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) [£]	ND	60	102	112	9.77	106	103	2.60	70 - 130	20	70 - 130	20
МТВЕ	ND	10	118	118	0	113	117	4.09	70 - 130	20	70 - 130	20
Benzene	ND	10	99.6	100	0.514	101	101	0	70 - 130	20	70 - 130	20
Toluene	ND	10	99	98.8	0.186	99.8	100	0.527	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	98.7	99.8	1.10	100	100	0	70 - 130	20	70 - 130	20
Xylenes	ND	30	99.7	101	1.08	101	101	0	70 - 130	20	70 - 130	20
%SS:	97	10	102	104	1.60	101	102	1.15	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 59876 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1107590-001A	07/20/11 12:15 PM	07/26/11	07/26/11 12:44 AM	1107590-002A	07/20/11 1:35 PM	07/22/11	07/22/11 9:44 PM
1107590-002A	07/20/11 1:35 PM	07/25/11	07/25/11 11:44 PM	1107590-003A	07/20/11 10:30 AM	07/22/11	07/22/11 9:13 PM
1107590-004A	07/19/11 2:30 PM	07/22/11	07/22/11 8:42 PM	1107590-005A	07/19/11 12:40 PM	07/22/11	07/22/11 8:10 PM
1107590-006A	07/19/11 3:30 PM	07/26/11	07/26/11 3:14 AM	1107590-007A	07/19/11 1:30 PM	07/22/11	07/22/11 7:08 PM
1107590-008A	07/20/11 11:15 AM	07/27/11	07/27/11 1:31 AM	1107590-009A	07/19/11 12:05 PM	07/22/11	07/22/11 5:33 PM
1107590-010A	07/19/11 2:45 PM	07/25/11	07/25/11 10:43 PM	1107590-011A	07/20/11 12:55 PM	07/22/11	07/22/11 4:29 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

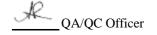
MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 59909 WorkOrder: 1107590

EPA Method: SW8260B	Extrac	tion: SW	5030B					S	Spiked Sam	ple ID:	1107590-0	03B
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acc	eptance	Criteria (%)	
, may co	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	10	79.9	80.4	0.556	71.1	73.9	3.38	70 - 130	30	70 - 130	30
Benzene	ND	10	100	103	2.49	112	114	2.16	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	6.3	50	98.7	102	2.63	100	99.4	0.873	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	89.8	92.1	2.62	109	109	0	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	95.9	98.1	2.26	108	109	0.940	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	105	106	1.10	118	121	1.70	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	92	92.6	0.621	112	112	0	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	1.9	10	96.3	95.5	0.625	117	118	0.673	70 - 130	30	70 - 130	30
Toluene	ND	10	90.9	95.1	4.45	111	114	2.08	70 - 130	30	70 - 130	30
%SS1:	104	25	103	101	1.70	110	110	0	70 - 130	30	70 - 130	30
%SS2:	99	25	99	100	1.04	106	107	0.455	70 - 130	30	70 - 130	30
%SS3:	88	2.5	88	88	0	121	118	2.18	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 59909 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed	
1107590-003B	07/20/11 10:30 AM	07/25/11	07/25/11 10:42 PM					

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 59910 WorkOrder: 1107590

EPA Method: SW8260B	Extra	tion: SW	5030B					8	piked Sam	ple ID:	1107590-0	05B
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acc	eptance	Criteria (%)	
7 mary to	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND<2.5	10	86.9	86.5	0.492	79.6	81.8	2.65	70 - 130	30	70 - 130	30
Benzene	130	10	NR	NR	NR	101	104	3.30	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	10	50	78	81.3	3.31	88	92	4.43	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND<2.5	10	96.3	96	0.352	100	105	4.94	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND<2.5	10	96.5	95.5	1.13	87.3	89.8	2.86	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND<2.5	10	107	105	1.67	97.3	100	2.87	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND<2.5	10	100	99.8	0.520	99.6	102	2.66	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	6.7	10	89.4	90.8	0.878	92.9	95.1	2.34	70 - 130	30	70 - 130	30
Toluene	ND<2.5	10	94.4	92.4	2.13	106	111	4.79	70 - 130	30	70 - 130	30
%SS1:	105	25	92	94	1.41	98	96	1.71	70 - 130	30	70 - 130	30
%SS2:	100	25	97	97	0	107	108	0.424	70 - 130	30	70 - 130	30
%SS3:	89	2.5	96	96	0	130	130	0	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 59910 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed	
1107590-005B	07/19/11 12:40 PM	07/25/11	07/25/11 11:59 PM					

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 59911 WorkOrder: 1107590

EPA Method: SW8260B	Extrac	tion: SW	5030B					S	Spiked Sam	ple ID:	1107590-0	09B
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acc	eptance	Criteria (%)	
7	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	10	92.8	85.8	7.79	81.6	79.2	2.92	70 - 130	30	70 - 130	30
Benzene	ND	10	106	93.6	12.1	94.6	97.3	2.82	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	103	92.5	10.8	117	101	14.8	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	97.5	92.3	5.46	91.7	105	13.1	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	98.7	93.1	5.81	95.6	101	5.17	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	114	107	6.09	102	105	3.38	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	108	101	6.04	92.3	102	10.1	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	105	98.5	6.14	98.5	110	11.4	70 - 130	30	70 - 130	30
Toluene	ND	10	92.1	87.2	5.44	84.6	93.4	9.86	70 - 130	30	70 - 130	30
%SS1:	106	25	96	95	0.632	102	109	5.87	70 - 130	30	70 - 130	30
%SS2:	99	25	96	96	0	98	106	7.72	70 - 130	30	70 - 130	30
%SS3:	92	2.5	95	95	0	90	119	27.9	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 59911 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1107590-009B	07/19/11 12:05 PM	07/26/11	07/26/11 2:33 AM	1107590-011B	07/20/11 12:55 PM	07/26/11	07/26/11 3:49 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 59918 WorkOrder: 1107590

EPA Method: SW8260B	Extrac	tion: SW	5030B					S	Spiked Sam	ple ID:	1107590-0	10B
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acc	eptance	Criteria (%)	
, mayte	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	10	86.8	83.3	4.19	83.2	85.2	2.38	70 - 130	30	70 - 130	30
Benzene	ND	10	113	108	4.39	99.6	104	4.35	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	50	99.3	99.3	0	121	121	0	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	112	108	3.12	95.2	98	2.91	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	105	100	5.13	99.3	101	1.89	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	119	115	3.75	106	110	3.11	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	112	108	4.14	94.9	98	3.17	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	4.4	10	121	120	0.611	102	104	2.20	70 - 130	30	70 - 130	30
Toluene	ND	10	109	106	3.33	91	94.8	4.19	70 - 130	30	70 - 130	30
%SS1:	105	25	109	108	0.816	102	102	0	70 - 130	30	70 - 130	30
%SS2:	98	25	103	102	0.979	99	99	0	70 - 130	30	70 - 130	30
%SS3:	92	2.5	123	118	3.86	89	90	1.28	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 59918 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1107590-008B	07/20/11 11:15 AM	I 07/26/11	07/26/11 1:54 AM	1107590-010B	07/19/11 2:45 PM	07/26/11	07/26/11 3:11 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 59919 WorkOrder: 1107590

EPA Method: SW8260B	Extrac	tion: SW	5030B					S	piked Sam	ple ID:	1107609-0	03A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acc	eptance	Criteria (%)	
7.11.27.0	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	0.83	10	78.7	77.1	1.88	74.7	76.2	1.97	70 - 130	30	70 - 130	30
Benzene	ND	10	106	105	0.885	78.6	82.2	4.55	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	2.0	50	113	116	2.10	82.5	78.3	5.21	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	97.7	97.6	0.129	84	84.4	0.547	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	102	101	0.808	79.9	83.2	4.04	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	10	112	110	1.72	91.1	94.9	3.99	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	10	99.6	97.5	2.13	87.3	89.6	2.57	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	10	104	104	0	85.5	87	1.78	70 - 130	30	70 - 130	30
Toluene	ND	10	96.8	96.4	0.383	76.8	78.7	2.44	70 - 130	30	70 - 130	30
%SS1:	105	25	102	101	0.589	97	99	1.35	70 - 130	30	70 - 130	30
%SS2:	99	25	99	99	0	100	100	0	70 - 130	30	70 - 130	30
%SS3:	90	2.5	88	87	0.329	99	98	0.431	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 59919 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1107590-001B	07/20/11 12:15 PM	07/25/11	07/25/11 9:26 PM	1107590-002B	07/20/11 1:35 PM	07/25/11	07/25/11 10:04 PM
1107590-004B	07/19/11 2:30 PM	07/25/11	07/25/11 11:21 PM	1107590-006B	07/19/11 3:30 PM	07/26/11	07/26/11 12:37 AM
1107590-007B	07/19/11 1:30 PM	07/26/11	07/26/11 1:16 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 59907 WorkOrder: 1107590

EPA Method: SW8015B Extraction: SW3510C							Spiked Sample ID: N/A					
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acc	eptance	Criteria (%)	
, and, yes	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	126	127	1.45	N/A	N/A	70 - 130	30
%SS:	N/A	625	N/A	N/A	N/A	92	99	7.71	N/A	N/A	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 59907 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1107590-001A	07/20/11 12:15 PM	07/21/11	07/26/11 3:10 AM	1107590-002A	07/20/11 1:35 PM	07/21/11	07/23/11 12:59 AM
1107590-003A	07/20/11 10:30 AM	07/21/11	07/27/11 5:11 AM	1107590-004A	07/19/11 2:30 PM	07/21/11	07/26/11 4:19 AM
1107590-005A	07/19/11 12:40 PM	07/21/11	07/26/11 5:27 AM	1107590-006A	07/19/11 3:30 PM	07/21/11	07/25/11 5:19 PM
1107590-007A	07/19/11 1:30 PM	07/21/11	07/25/11 8:10 PM	1107590-008A	07/20/11 11:15 AM	07/21/11	07/23/11 7:58 AM
1107590-009A	07/19/11 12:05 PM	07/21/11	07/23/11 9:08 AM	1107590-010A	07/19/11 2:45 PM	07/21/11	07/25/11 5:47 PM
1107590-011A	07/20/11 12:55 PM	07/21/11	07/23/11 11:31 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.