

AE Consultants Environmental & Engineering Services

June 29, 2012

## HIGH VACUUM DUAL PHASE EXTRACTION PILOT TESTING AND OPERATION REPORT

**Property Identification:** 1630 Park Street Alameda, California

AEI Project No. 298931 ACEHD Fuel Leak Case No. RO0000008

Prepared for: Foley Street Investments Attn: Mr. John Buestad 2533 Clement Avenue Alameda, CA 94501

Prepared by: AEI Consultants 2500 Camino Diablo Walnut Creek, CA 94597 (925) 746-6000 RECEIVED

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July 3, 2012

Ms. Karel Detterman Alameda County Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502

#### Subject: Perjury Statement and Report Transmittal

1600 – 1630 Park Street Alameda, California 94501 AEI Project No. 298931 ACEH RO#0000008

Dear Ms. Detterman:

I declare under penalty of perjury, that the information and/or recommendations contained in the attached report for the above-referenced site are true and correct to the best of my knowledge.

If you have any questions or need additional information, please do not hesitate to call me or Mr. Peter McIntyre at AEI Consultants, (925) 746-6004.

Sincerely,

/John Buestad President

JB/pm

Attachment: AEI Consultants, High Vacuum Dual Phase Extraction Pilot Testing and Operation Report, June 29, 2012.

cc: Mr. Peter McIntyre, AEI Consultants, 2500 Camino Diablo, Walnut Creek, CA 94597

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**Environmental & Engineering Services** 

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June 29, 2012

Alameda County Environmental Health Department Attn: Ms. Karel Detterman 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502

Subject: HVDPE Pilot Testing and Operation Report 1630 Park Street Alameda, California AEI Project No. 298931 ACEHD Fuel Leak Case No. RO0000008

Dear Ms. Detterman:

AEI Consultants (AEI) has prepared this *High Vacuum Dual Phase Extraction Pilot Testing and Operation Report* on behalf of Foley Street Investments, developer of the subject site (See Figure 1 and Figure 2). The subject of this report is the leaking underground storage tank (LUST) case located at the property 1630 Park Street, known as the Good Chevrolet site. The Alameda County Environmental Health Department (ACEHD) is the agency with regulatory oversight of the LUST case. This report has been prepared to document the recent activities at the site related to the operation of the high vacuum dual phase extraction (HVDPE) system.

The completed activities which are discussed in this report include:

- Remediation well installations;
- Pilot testing of the HVDPE system including the results of pilot-testing;
- Continued operation of the HVDPE system from January to April 2012; and
- Shutdown of the HVDPE system with evaluation of the results of operation.

#### **Property Overview**

#### 1.1 **Property Description**

The development site consisting of 1600 to 1630 Park Street is an irregularly shaped property totaling approximately 1.46 acres, of which the northern portion is the 1630 Park Street site. The site is bound by Park Street to the northwest, 1650 Park Street to the northeast, Foley Street to the Southeast, and Tilden Way to the southwest in a mixed commercial and residential area of Alameda, California. Hereinafter, unless otherwise stated, the "site" will refer to the 1630 Park Street property.

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Until May 2012, the site was improved with a two-story showroom and office building totaling approximately 11,264 square feet and parking lot which was until approximately 2008 occupied by Good Chevrolet. Good Chevrolet also occupied the 1600 to 1618 property to the south, which is also vacant. Refer to Figure 2 for the property layout and major site features.

#### 1.2 Planned Development Project

Building demolition began in May 2012 and with the exception of surfacing, demolition is nearly complete. Upon completion of the demolition, Foley Street Investments plans to construct two commercial buildings on the site. The northern building will overlie the area of the former Good Chevrolet building along Park Street. The remainder of the development site will be improved with paved parking areas and landscaping. Grading activities and construction of the new building will commence in July 2012, pending approval of the City of Alameda.

#### 2.0 Site History

Based on historical research performed during a *Phase I Environmental Site Assessment* (ESA) conducted in June 2011, the current building at the site was constructed in the 1940s for use as an auto garage and showroom. Good Chevrolet occupied the site from the early 1960s through 2008.

#### 2.1 Prior Environmental Work

According to records on file with the ACEHD, one 300-gallon waste-oil underground storage tank (UST) and one 500-gallon gasoline UST were removed from adjacent to the northern side of the building in 1986 at which time a release of petroleum hydrocarbons, primarily gasoline, was discovered. Due to the discovery of a release, a case was opened with the ACEHD. Following is a summary of investigation activities that followed.

- In 1987, Groundwater Technologies installed three groundwater monitoring wells (MW-1 to MW-3) and drilled two soil borings (SB-4 and SB-5) to investigate soil and groundwater conditions around the former UST hold.
- In October 1993, Geoplexus collected and analyzed soil and groundwater samples from seven soil borings (EB1 to SB7) drilled around the UST hold along with up-gradient and downgradient of the release. It should be noted that documents indicate that two other borings (HP-1 and HP-2) were drilled up-gradient of the release area in April 1993, however details are not available. Geoplexus installed monitoring wells MW-4 and MW-5 in April 1994 in Park Street to investigate the down-gradient extent of the hydrocarbon plume.
- In January 1997, Geoplexus drilled an additional eight soil borings (EB8 to EB12 and P1 to P3) onsite around and down-gradient of the former UST hold. Soil samples were analyzed from EB8 to EB12 and groundwater samples were analyzed for all eight borings.
- In November 1998, Geoplexus collected three soil gas samples from three borings (AGP-1 to AGP-3) in the release are and within the adjacent building. Geoplexus presented an argument for "low risk" closure however case closure was not granted.
- In April 2008, Blymer Engineers collected soil and groundwater samples from 24 soil borings (GP1 to GP24) on and offsite to characterize the extent of soil and groundwater pollution. It should be noted that AEI was not able to locate a formal report of these activities, only tables of soil and groundwater data and figures have been located.

- In June 2011, a Phase I ESA was conducted for the subject property as detailed in a report dated July 5, 2011 (AEI 2011a).
- In July 2011, a subsurface investigation was conducted at the property relating to potential environmental issues aside from the Good Chevrolet LUST case. The areas of concern investigated include five former and five existing underground hydraulic lifts, several floor drains, three existing USTs (1 550-gallon waste-oil UST, 1 10,000 gallon and 1 4,000 gallon gasoline UST), and a former gasoline station identified on the southern end of the development site at the intersection of Park Street and Tilden Way. A total of 19 soil borings (AEI-1 to AEI-19) were drilled for soil and groundwater sampling. Results of the investigation are summarized in the August 16, 2011 *Phase II Subsurface Investigation Report* (AEI 2011b) prepared by AEI.
- An Interim Corrective Action Plan (ICAP) dated September 28, 2011 (AEI 2011c) was submitted and followed by an ICAP Comment Letter Response and Pilot Test Workplan Details dated November 14, 2011 (AEI 2011d). Both documents proposed the performance a HVDPE event at the site. A review of multiple remedial options for the site was discussed in these documents and a HVDPE event was considered the most feasible option for the site given the site conditions.
- In November 2011, wells DPE-1 to DPE-3 and AS well AS-1 were installed. In early December, three vacuum monitoring points VP-1 to VP-3 were installed and pilot testing began. Results of the HVDPE event were preliminarily provided in the *Investigation and Remedial Action Workplan* dated January 12, 2012 (AEI 2012a). The work plan also proposed the advancement of additional borings and the installation of extraction wells. In January 2012, borings AEI-20 through AEI-28 were advanced and wells DPE-4 through DPE-6, and DPE-8 through DPE-11 were installed. DPE-7 was advanced as a boring instead of being completed as a well. The data were used to help define the extent of impacted soil and groundwater and identify target areas for additional remedial action. These activities are discussed in more detail below and in previous reporting.
- A *Corrective Action Plan* (CAP) dated February 3, 2012, (AEI 2012b) was submitted to the ACEHD. The CAP documented the December 2011 to January 2012 HVDPE event and based on the results, recommended HVDPE as the remedial option for the site.
- At the request of the ACEHD, a *Data Gap and Interim Source Removal Workplan*, was prepared and submitted on May 4, 2012 (AEI 2012d). The work plan outlined the scope of work to define the lateral extent of impacted groundwater and proposed excavation of known sources of impacts to groundwater. The work plan is currently pending approval by ACEHD.
- Groundwater monitoring and sampling was conducted approximately quarterly from 1992 through 1995, then sporadically through 2003, once in 2008, twice in 2011 and twice in 2012. The most recent groundwater sampling was conducted in May 2012, and cumulative groundwater data were submitted to the ACEHD in the *Groundwater Monitoring and Soil Vapor Sampling Report*, (AEI 2012d), dated June 11, 2012.

#### 3.0 Geology and Hydrogeology

The site is located on Alameda Island. The near surface sediments of the area are mapped as Holocene and Pleistocene Merritt Sands (Qms) deposits (Helley, et al 1997). Depth to bedrock is

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estimated at 300 to 800 feet below ground surface [(bgs) Norfleet Consultants 1998]. According to information obtained from the U.S Geological Survey (USGS), the site is located at between 20 and 25 feet above mean sea level (amsl) with the local topography sloping gently to the northeast. The nearest surface water is a tidal canal connected to the San Francisco Bay located approximately 1,800 feet to the northeast of the site.

Based on previous investigations at the site, groundwater is first observed in the temporary direct push borings at depths of approximately 9 to 11 feet bgs and stabilizes at between approximately 7.5 to 8.5 feet bgs. The depth to water in the groundwater monitoring wells has generally ranged from approximately 7.5 to 9.5 feet bgs. Based on the groundwater monitoring conducted at the site, groundwater flows fairly consistently in a northwesterly direction at an approximate hydraulic gradient of  $1 \times 10^{-2}$  to  $2 \times 10^{-2}$  ft/ft and exists as an unconfined aquifer.

During the most recent groundwater sampling event (May 2012) groundwater was measured at depths ranging from 6.75 feet bgs to 8.96 feet bgs equivalent to elevations 16.62 to 18.70 ft amsl. Groundwater flow during the May 2012 event was toward the north-northwest under a hydraulic gradient of approximately 0.01 ft/ft. Historically, depth to water has ranged from 6.76 feet bgs to 9.83 feet bgs. The groundwater flow is generally to the west-northwest to north-northwest under hydraulic gradients of 0.01 ft/ft.

Based on the previous and recent drilling logs, soil types and stratigraphy are fairly consistent across the site; consisting primarily of poorly graded fine to medium sand with varying clay and silt content. Grain size distribution analyses for two aquifer material samples identified the sediments and silty sand. Refer to the boring logs in Appendix A for specific details regarding the soil encountered during these recent investigations.

#### 4.0 Remediation Well Installations

As discussed in AEI's ICAP dated September 28, 2011, HVDPE was chosen for pilot testing and as an appropriate interim remedial measure. To implement these activities, three DPE wells and one AS well were installed and a 30 day pilot test was performed utilizing the DPE wells and AS well for extraction while using nearby wells for vacuum radius of influence monitoring. Based on positive initial results of the pilot testing, additional remediation wells were installed.

The following sections discuss the installation of wells used for the HVDPE pilot testing and operation. Additional details of the well installations can be found in the *Subsurface Investigation and Well Installation Report*, dated March 30, 2012 (AEI 2012c). Boring logs with well construction details for all groundwater monitoring and remediation wells installed during the recent work are included in Appendix A. Refer to Table 1 for a summary of the construction details of all wells at the site.

#### 4.1 Installation of Remediation Wells: November 2011

In November 2011, AEI installed three (3) dual-phase extraction wells (DPE-1, DPE-2 and DPE-3) and one air sparge well (AS-1) at the locations shown on Figure 2. The wells were designed to be used during the HVDPE pilot test. Details of the drilling, sampling and well installations

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were presented in the *Subsurface Investigation and Well Installation Report*, dated March 30, 2012 (AEI 2012c).

Boreholes for the DPE wells were drilled using 10-inch diameter hollow-stem augers to a depth of 14 feet bgs (DPE-3), and 15 feet bgs (DPE-1 and DPE-2). The DPE wells were constructed using 4" diameter schedule 40 PVC casing with 7 feet to 8 feet of factory slotted 0.010-inch well screen. The borehole for AS-1 was drilled using 8-inch diameter hollow-stem augers to a depth of 25 feet bgs. The well was constructed as a dedicated air-sparge well using 2" diameter schedule 40 PVC casing with 5 feet of factory slotted 0.020-inch well screen installed to the bottom of the boring. An annular sand pack consisting of clean Monterey sand (#2/12 for DPE wells, #3 for AS-1) was installed through the augers to approximately ½ foot above the screened interval and a 1 foot bentonite seal was placed above the sand pack and hydrated with water. The remainder of each boring was sealed with neat cement grout to near surface grade. The wells were completed within a flush mounted traffic rated well box and a water-tight locking cap.

#### 4.2 Installation of Soil Vapor Probes: December 2011

In early December 2011, AEI installed three (3) soil vapor probes (VP-1, VP-2 and VP-3) at the site as outlined in the November 14, 2011 *ICAP Comment Letter Response and Pilot Test Workplan Details (AEI 2011d)*. The locations of the VE wells are shown on Figure 2. The vapor probes were installed primarily to collect vacuum data during the HVDPE pilot event to assist in determining the effective radius of influence (ROI) at distances of 5 and 10 feet from DPE-1 and to evaluate possible effects of the backfill material on induced vacuums across the former tank hold.

The borings were advanced with an electric rotary hammer drill equipped with 1.25-inch steel probe rods and constructed using the open-borehole method. To begin, a 4-inch diameter hole was cored through the asphalt. Next, the probe rods were assembled with solid drive point at the end and driven to a depth of approximately 6 feet bqs. Upon reaching the target depth, the probe rods were removed and the open borehole was checked for collapse. The soil gas probes were constructed inside the open borehole and consisted of a 6-inch long stainless steel implant with 0.0057-inch pore diameter, threaded onto an expendable 1.5-inch anchor point, a precut section of 0.25-inch outside diameter kynar tubing, and a 0.25-inch Swagelok® plug valve. A layer of clean #30 mesh Monterey sand was poured into the bottom of the boring to a depth of 5.6 feet bgs and the pre-assembled soil gas probe was lowered into the borehole to the top of the sand layer. A sand pack, consisting of #30 mesh Monterey sand, was poured around the soil gas probe to approximately 4 to 6-inches above the top of the screen (approximately 5.1 Hydrated granular bentonite was then placed and hydrated in 0.5 foot lifts to feet bgs). approximately 2 feet above the sand filter pack (approximately 2.7-feet bgs). The remainder of the borehole was filled with neat cement grout. A 0.25-inch Swagelok® plug valve was installed on the top of each soil gas probe to prevent the infiltration of water and/or ambient air, diffusion and advection of hydrocarbon vapor from the vadose zone, and to facilitate vacuum measurements and/or soil gas sampling. The wellheads were completed flush to grade with 4-inch diameter nylon traffic-rated well boxes.

#### 4.3 Installation of Additional DPE Wells: January 2012

In January 2012, based on the early success of HVDPE pilot testing described in Section 5, AEI installed seven (7) additional dual phase extraction wells DPE-4 through DPE-11, excluding DPE-7, at the location shown on Figure 2. The locations were chosen to facilitate removal of hydrocarbons from areas outside the original DPE wells ROI. Details of the drilling, sampling and well installations were presented in the *Subsurface Investigation and Well Installation Report*, dated March 30, 2012 (AEI, 2012c).

The wells were constructed similar to the existing DPE wells in 10-inch diameter borings to depths of 17 feet bgs (DPE-4 and DPE-10) or 18 feet bgs (DPE-5, DPE-6, DPE-8, DPE-9, and DPE-11) and 9 to 10 feet. The wells were constructed with 4" diameter, schedule 40 PVC casing with 9' to 10 ' of factory slotted 0.010-inch well screen installed through the augers. An annular sand pack (consisting of clean #2/12 Monterey Sand) was placed to approximately ½ foot above the screened interval. A 1 foot bentonite seal was placed above the sand and hydrated with water and the remainder of each boring was sealed with neat cement grout to near surface grade. A flush mounted traffic rated well box was installed over the casing, and an expanding, locking inner cap was placed on the casing top.

All wells were developed no sooner than 3 days after installation and surveyed to the NAD 83 (horizontal) and NAD 88 (vertical) datum's. The well development details and surveyor's report were included in *Subsurface Investigation and Well Installation Report*, dated March 30, 2012 (AEI, 2012c).

#### 5.0 HVDPE System Pilot Testing

From December 5, 2011 to January 9, 2012, CalClean, Inc. (CalClean) of Tustin, California performed a HVDPE pilot test event under the oversight of AEI. The work was performed as part of an interim corrective action and feasibility study which was previously proposed (AEI 2011c and AEI 2011d). Preliminary results of this work were submitted to the ACEHD in the *Investigation and Remedial Action Workplan*, dated January 12, 2012 (AEI 2012a). A copy of the CalClean summary report for the pilot test (CalClean 2012a) is included as Appendix C.

DPE is a technique of applying a high vacuum (negative pressure) on an extraction well and the formation to simultaneously remove volatile and semi volatile contaminants from the vadose zone, capillary fringe, and saturated soil zone. The dewatering achieved from liquid removal increases volatilization, and thus the removal rate, of the contaminants from previously saturated sediments via the increased air movement. The vacuum pressure and flow rates of the system were monitored and adjusted during operation to optimize recovery of vapor- and dissolved-phase hydrocarbons.

#### 5.1 Equipment

The event was performed using a low-noise truck-mounted 450 cfm high vacuum liquid ring blower and a propane-fired thermal oxidizer. The thermal oxidizer was permitted with the Bay Area Air Quality Management District (BAAQMD) with a various locations permit.

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The extracted groundwater was treated through two 500-pound vessels in series filled with granular activated carbon. The treated groundwater was discharged to the onsite sewer system in accordance with a Special Discharge Permit from the EBMUD. Copies of the BAAQMD and EBMUD permit are attached in Appendix B.

A Horiba organic vapor analyzer was used to measure the system influent concentrations of hydrocarbons in the field. Vapor samples were periodically collected from the individual extraction wells and from the system inlet and submitted for laboratory analysis. Magnahelic vacuum gauges were used to measure the vacuum at the system inlet and at the individual extraction and observation wells. A totalizer water meter was used to measure the amount of water extracted.

#### 5.2 Fieldwork

During the 35 day pilot test event, the HVDPE system was connected to extraction wells DPE-1, DPE-2, DPE-3, and MW-2 either individually or in combination. A graphical representation of the well extraction timeline for the pilot test event is presented in Figure 3. Wells which were not used for extraction were instead used for observation. Additional observation wells included wells MW-1 through MW-3, and VP1 through VP3. Well MW-3 was temporarily connected as an extraction well and well AS-1 was temporarily connected as a sparging well.

Baseline depth-to-water measurements and groundwater samples were collected from wells AS-1, DPE-1, DPE-2, DPE-3, and MW-1 through MW-3 prior to the event (Tables 2 and 7). Depthto-groundwater was then measured periodically during the operation of the HVDPE system. In addition, data logging pressure transducers were placed in wells MW-1, MW-2 and MW-3 to record water level changes at 1-minute intervals.

Key system parameters were also recorded during the event and included in the report by CalClean (Appendix C). System parameters include system inlet vacuum in inches of Hg, the total system inlet flow in cubic feet per minute (cfm), and the influent concentrations in parts per million by volume (ppmv).

The extraction well applied vacuum(s) were also measured (in inches of Hg) along with the induced vacuum in the observation wells (in inches of  $H_2O$ ). Field data from the event are included with the report by CalClean (Appendix C, Attachment 2). Data collected at the end of an operation period of one or more extraction wells were used for system performance analysis and are summarized in Table 3.

Soil vapor samples were collected from the system inlet or individual wells using Tedlar bags on an approximately weekly basis. Vapor samples were also collected from the treatment system outlet on a monthly basis to confirm permit discharge compliance. The samples were transported under chain of custody documentation to Associated Laboratories in Orange, California, for analysis of THP-g and BTEX/MTBE by EPA Methods 8015/8021, respectively.

#### 5.3 Vapor Extraction Pilot Test Results

The average system inlet vacuum ranged from 15 to 22 inches of mercury (inches of Hg) and the average total system inlet flow ranged from 89 to 177 cfm (Appendix C, Table 2).

Vacuum measurement's recorded at the observation wells were used to calculate the vapor extraction radius of influence (ROI) for the site. The vapor extraction ROI is defined as the distance from the extraction point that would result in an observed induced vacuum of 0.1 inches of  $H_2O$  (EPA 2004). The ROI is estimated as the intersection of 0.1 inches of  $H_2O$  vacuum, with the line created by the linear regression of the induced vacuum of the observation wells versus the log of the distances from an extraction well to the observation wells. The observed induced vacuum in vapor probes VP-1 through VP-3 and all other observation wells were used separately to calculate the ROIs for the extraction wells. The average of the calculated ROIs for the extraction wells was 19 feet using the vapor probes as observation wells and as 30 feet using all other wells (Table 4). Figure 4 depicts a graphical representation of the soil vapor ROI based on the pilot test results.

A soil pore volume exchange rate calculation was performed based on the information collected during the pilot test event. The exchange rate is calculated by dividing the soil pore space volume within the treatment zone by the design vapor extraction rate (EPA 2004). The average number of pore volumes exchanged per day was calculated as 10.12 (Table 5). An exchange rate of at least one pore volume per day is considered a minimum for vapor extraction.

Based on laboratory analysis of soil vapor samples collected during the event, the maximum soil vapor concentrations in wells DPE-1 through DPE-3 and MW2 were 7,500 ppmv, 4,000 ppmv, 15,000 ppmv, and 1,000 ppmv, respectively. The maximum system inlet vapor concentration based on laboratory data was 7,400 ppmv. The total equivalent amount of hydrocarbons recovered through vapor extraction during the event was approximately 6,422 pounds based on laboratory data and 4,274 pounds based on the Horiba field organic vapor analyzer data for an average of 5,348 pounds (approximately 891 gallons assuming a density of 6 pounds per gallon) (Appendix C, Table 1).

#### 5.4 Groundwater Extraction Pilot Test Results

The quantity of groundwater extracted was measured at various times during the event. The average rate of groundwater extraction was calculated to be 0.60 gpm from DPE-1, 0.24 gpm from DPE-2, 0.43 gpm from DPE-3, 0.36 gpm from MW-2, and 0.94 gpm from a combination of wells DPE-1 through DPE-3 (Table 5).

The depth to water level measurements in the observation wells were collected during the pilot test using a hand held water level meter. Data loggers were also used to record drawdown data from selected wells. Field data from the event are included with the report by CalClean (Appendix B). Data collected at the end of an operation of one or more extraction wells were used for data analysis and are summarized in Table 3.

The groundwater extraction radius of influence is estimated by examining the depth to water levels in the observation wells during the event. The longest duration extraction occurred when wells DPE-1 through DPE-3 were extracted for a period of 20.8 days which resulted in

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drawdowns of 1.22, 1.04, and 0.87 feet, respectively, in wells MW-1 through MW-3. The observed drawdown indicates that operation of the system at extraction wells DPE-1 through DPE-3 was effective in influencing the water levels in wells MW-1 through MW-3. Since well MW-2 is the closest monitoring point to an extraction well (DPE-1), the distance between MW-2 and DPE-1 (13 feet) was used as to estimate the ROI for groundwater extraction (Table 6 and Figure 5).

Groundwater sampling of all extraction wells was conducted at the beginning of the event on December 6, 2011, and approximately 2 weeks after the event on January 24, 2012. A decrease in the concentrations of TPH-g and benzene in groundwater from the extraction wells was noted after the event (Table 7).

The total volume of groundwater extracted during the pilot test event was 43,530 gallons. Using the volume removed and the groundwater concentration data, an average concentration and the mass of hydrocarbons removed from the event was estimated. An estimated total of 2.48 pounds of TPH-g, 0.30 pounds of benzene, 0.25 pounds of toluene, 0.10 pounds of ethylbenzene, and 0.39 pounds of xylenes were removed from groundwater during the pilot test event.

#### 5.5 Air Sparging Test

Concurrent with the HVDPE system pilot test, an air-sparging test was also conducted to determine if sparging could enhance removal of dissolved phase hydrocarbons from groundwater. The test was conducted between December 21 and 22, 2012, and lasted approximately 26 hours. Air-sparging was performed in well AS-1 while HVDPE was active in nearby wells DPE-1, DPE-2 and DPE-3. Sparging was accomplished by connecting an air compressor to the AS-1 well head and applying 2-3 cubic feet per minute (cfm) of air using an oil-less compressor at 15 psi. Air pressure and flow were measured at the well head periodically during the sparging and compared with vacuum, flow and PID readings from the active HVDPE wells nearby.

Air pressure at the AS-1 well head ranged from 8 to 6 pounds per square inch (psi) at flows ranging from 5 to 7 cfm. Over the course of the test, the AS-1 air pressure was observed to slowly drop while the air flow slowly increased. Data from observation wells MW-1, MW-2, MW-3, VP-1, VP-2 and VP-3 did not show the expected decreased vacuum pressure or increased flows during the test. In addition, PID readings from the active extraction wells did not show the expected increase in hydrocarbon concentrations in the vapor stream. Field data sheets showing the air sparge test data are included in the CalClean report (Appendix C, Attachment 2).

#### 5.6 HVDPE Pilot Test Summary

Based on the data collected during HVDPE pilot testing the following results were found:

• The average system inlet vacuum ranged from 15 to 22 inches of mercury (inches of Hg) and the average total system inlet flow ranged from 89 to 177 cfm.

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- The average of the calculated ROIs for the vapor extraction wells was 19 feet using the vapor probes as observation wells and as 30 feet using all other wells.
- The average number of soil pore volumes exchanged per day was calculated as 10.12.
- Based on laboratory analysis of soil vapor samples collected during the pilot test event, the maximum TPH concentrations in wells DPE-1 through DPE-3 and MW2 were 7,500 ppmv, 4,000 ppmv, 15,000 ppmv, and 1,000 ppmv, respectively.
- The total equivalent mass of hydrocarbons recovered through vapor extraction during the pilot test event was 6,422 pounds based on laboratory data and 4,274 pounds based on the Horiba field organic vapor analyzer data for an average of 5,348 pounds (or approximately 891 gallons assuming a density of 6 pounds per gallon).
- Approximately 43,530 gallons of hydrocarbon impacted groundwater water was also removed from the subsurface at the site during the pilot test event.
- The average rate of groundwater extraction during the pilot test was calculated to be 0.60 gpm from DPE-1, 0.24 gpm from DPE-2, 0.43 gpm from DPE-3, 0.36 gpm from MW-2, and 0.94 gpm from a combination of wells DPE-1 through DPE-3.
- The observed groundwater drawdown ranged from 1.22 feet in DPE-3 located 22 feet from the extraction point; to 0.87 feet in well DPE-1 we located 36 from the extraction point.
- A conservative ROI for groundwater extraction was estimated at 13 feet, based on the 1.04 feet of drawdown observed in DPE-1 located 13 feet from the extraction point.
- The results of the 26 hour air sparge test at well AS-1 did not show an increased hydrocarbon recovery rate during air sparging.

#### 6.0 HVDPE System Operation

Based on the results of the pilot testing, it was determined that the HVDPE system would successfully remove hydrocarbons from the source area soils and therefore was a viable alternative for remediation of the site. The objective of the continuation of HVDPE was to remove hydrocarbons from source area soils by vapor extraction enhanced by groundwater extraction to lower water levels in the area of active vapor extraction. The HVDPE system resumed operation on January 25, 2012, and continued until April 28, 2012, for a total of approximately 94 days.

During the period, the system was connected to wells DPE-1, DPE-2, DPE-4, DPE-5, DPE-6, DPE-8, DPE-9 DPE-10, DPE-11, DPE-12 and MW-2 either individually or in combination. Typically, extraction was performed from three wells simultaneously with brief periods of operation with up to five wells. Well DPE-3 was not used during this phase due to the high flow rate observed during the pilot testing. The high flow rate combined with low PID readings lowered the efficiency of the total system by reducing the flow from more productive wells. A graphical representation of the well extraction timeline for the 94 day event is presented in Figure 6.

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During system operation, the system was monitored and maintained by CalClean staff. System operation parameters were monitored frequently using a Horiba organic vapor analyzer to measure the system influent concentrations of hydrocarbons in the field. In addition, vapor samples were periodically collected from the individual extraction wells and from the system inlet and effluent (stack) and submitted for laboratory analysis. Magnahelic vacuum gauge readings were recorded to track the vacuum at the system inlet and at the individual extraction and observation wells. A totalizer water meter was used to measure the amount of water extracted.

At a minimum AEI reviewed the system data weekly and made recommendations to change the extraction well array. Typically, wells that displayed decreased concentrations were removed from active extraction and replaced with wells with higher concentrations. Consideration was given to ensure maximum coverage of the source area, however; the primary focus was to remove hydrocarbon mass as efficiently as possible during the event.

Soil vapor samples were collected from the system inlet or individual wells using Tedlar bags on an approximately weekly basis. Vapor samples were also collected from the treatment system outlet on a monthly basis to confirm permit discharge compliance. The samples were transported under chain of custody documentation to Associated Laboratories in Orange, California, for analysis of THP-g and BTEX/MTBE by EPA Methods 8015/8021, respectively. Copies of the laboratory reports are included in Attachment A of the May 9, 2012, CalClean Report (Appendix D).

#### 6.1 HVDPE Operation Summary

The approximate operational time for each well, along with its starting and final TPHg concentration for the five wells with available laboratory analytical data are shown below:

Well I.D.	Days Operated	TPHg Start	TPHg End
DPE-1	25	nm	nm
DPE-2	16	300	3400
DPE-3	0	nm	nm
DPE-4	13	nm	nm
DPE-5	21	6100	940
DPE-6	5	nm	nm
DPE-8	64	7500	880
DPE-9	60	11000	640
DPE-10	77	12000	750
DPE-11	56	3800	560
MW-2	8	nm	nm
	Average	6783	566

\* TPHg concentrations in ppmv

- The total equivalent mass of hydrocarbons recovered through vapor extraction during the 94 day event was 14,265 pounds based on laboratory data and 11,307 pounds based on the Horiba field organic vapor analyzer data for an average of 12,786 pounds (or approximately 1,231 gallons assuming a density of 6 pounds per gallon).
- Approximately 346,930 gallons of hydrocarbon impacted groundwater water was also removed from the subsurface at the site during the operation event.

A summary report for the operation phase was prepared by CalClean and is included in Appendix D. The report contains daily system operation and data records and copies of the laboratory analytical reports for vapor samples collected during the event.

#### 7.0 Post HVDPE Soil Vapor and Groundwater Sampling

On May 17, 2012, three (3) soil vapor probes (VP-1, VP-2, and VP-3) were sampled. The probes are located in the source area near the former tank hold, which had recently undergone HVDPE. The purpose of the sampling was to establish a baseline concentration post interim remediation and as part of an evaluation of vapor intrusion potential.

Soil vapor samples were collected in one-liter summa canisters fitted with 150 ml/hr flow controllers. Each canister and flow controller was individually checked, tested and certified by the laboratory for air tightness and proper vacuum prior to shipping. A vacuum gauge was used to measure and record the initial and final summa canister vacuum pressure. Prior to collecting each vapor sample, a shut-in test was performed to verify that the sampling train was free of leaks, and approximately three tubing volumes were purged from the soil vapor probes using a spare summa-canister. During sampling a leak check compound (isopropyl alcohol) was used to check for leaks. Upon completion of sampling the valves were removed, the inlet fittings tightly capped, and the canisters were labeled with the sample name, date and time of collection, then entered onto a chain of custody record.

After sample collection, field readings of oxygen (O2), methane (CH4), carbon dioxide (CO2) and total volatile hydrocarbons (TVHC) were collected using a multi-gas detector. The instrument uses a photo-ionization detector (PID) calibrated to 100 ppm isobutylene to read TVHC and also contains dedicated O2, CH4 and CO2 sensors.

The soil vapor samples were delivered on the day of collection, under proper chain of custody protocol and within hold time, to McCampbell Analytical, Inc. of Pittsburg, California (Department of Health Services Certification #1644) for analysis. Soil vapor samples were analyzed by EPA Method TO-15 for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and xylenes (BTEX).

Groundwater sampling of select extraction wells was conducted at the beginning of the event on January 24, 2012, and approximately 2 weeks after the event on May 17 and 23, 2012. A significant decrease in the concentrations of TPH-g and benzene in groundwater at the site was noted after the event (Table 8). Details of the post interim remediation soil vapor and groundwater sampling were presented in the AEI Groundwater Monitoring and Soil Vapor Sampling Report, dated June 11, 2012 (*AEI 2012d*).

#### 7.1 Soil Vapor Sampling Analytical Results

- All three soil vapor samples collected during the post-interim remediation event were nondetect for TPH-g and BTEX; well below the commercial screening levles.
- PID and methane field readings from the vapor probes were non-detect (zero).
- Oxygen level field readings from the probes ranged from 17.7 to 18.4%.
- Carbon dioxide field readings from the probes ranged from 0.4 to 0.9%.

Laboratory analytical results for the soil vapor samples are summarized in Table 8. Laboratory analytical reports with chain of custody and quality assurance/quality control documentation are included in Appendix E.

#### 8.0 Summary

A review of remedial options was presented in the Interim Corrective Action Plan (ICAP) dated September 28, 2011, and further discussed in the ICAP Comment Letter Response and Pilot Test Workplan Details dated November 14, 2011. Analysis of the options identified HVDPE as the most feasible remedial option for the site given the site conditions. In order to test the method, a series of extraction wells were designed and installed in the source area at the site and a 35 day pilot test was commenced on December 5, 2011. The test was conducted using mobile equipment provided by CalClean which included a high vacuum blower to extract soil vapor and groundwater from the test wells and vapor and groundwater treatment systems to treat the effluent streams to for discharge under permit and within discharge limits.

Vacuum data collected from observation wells located near the source area showed that the system would conservatively produce a radius of influence of 19 to 30 feet from the extraction point. Soil vapor samples collected from individual wells and at the system inlet showed that a significant mass of hydrocarbons were being recovered. Soil vapor pore volume exchange rate calculations estimated the exchange rate at 10.12 volumes per day. In addition to soil vapor, a significant volume of impacted groundwater was also removed from the subsurface during the pilot test which both aided the recovery of soil vapor and removed additional source material at the site. The pilot test results validated that HVDPE was a viable method for removing hydrocarbons from the subsurface at the site.

Based on the results of the pilot testing, it was determined that the HVDPE system would successfully remove hydrocarbons from the source area soils and therefore was a viable alternative for remediation of the site. The objective of the continuation of HVDPE was to remove hydrocarbons from source area soils by vapor extraction enhanced by groundwater

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extraction to lower water levels in the area of active vapor extraction. At the direction of FSI, CalClean remobilized to the site, and resumed operation of the HVDPE system on January 25, 2012, and continued until April 28, 2012, for a total of approximately 94 days.

During the operation of the HVDPE system (pilot test phase and operation periods combined) an estimated 18,134 pounds of hydrocarbons were removed from the subsurface by soil vapor extraction; equivalent to approximately 3,022 gallons of liquid hydrocarbons (using a density of 6 pounds per gallon). Further, an estimated 390,460 gallons of hydrocarbon impacted groundwater water was also removed from the subsurface at the site.

Post remediation soil vapor and groundwater samples were collected from the site approximately 2 weeks after the system was shut down. The soil vapor samples were collected from three vapor monitoring points located near the source area and the groundwater samples were collected from monitoring wells across the site. Laboratory analysis of the soil vapor samples indicated non-detect for all analytes. Laboratory analysis of the groundwater samples indicated an overall decrease in dissolved phase hydrocarbon concentration across the site.

#### 9.0 **Project Schedule**

Based on the encouraging results of initial post-interim remediation groundwater and soil vapor sampling, it is anticipated that no further HVDPE operation will be required. Contingencies for future operation of the HVDPE system, however, will be incorporated into the new building design which will allow the use of select remediation wells after completion of the proposed building over the site. The existing DPE wells will be plumbed to a common manifold located outside the proposed building footprint. If needed, portable equipment could be used to perform additional dual phase or soil vapor extraction.

A focused excavation of source area soils is planned for July 2012, as discussed in the Data Gap Investigation and Interim Source Removal Workplan (AEI, 2012c). The purpose of the excavation work is to remove additional impacted material that may pose a continued threat to groundwater and to eliminate potential impediments to remediation or natural attenuation of suspected residual source in the former UST area (i.e. plastic in the former UST hold).

The next groundwater monitoring and sampling event is scheduled for August 2012, as per the proposed groundwater monitoring scheduled included in the *Data Gap and Interim Source Removal Workplan* (AEI, 2012d).

#### 10.0 References

AEI Consultants (AEI) 2011a. Phase I Environmental Site Assessment, 1600 – 1650 Park Street, 1600 – 1606 Foley Street, 2329 Pacific Avenue, Alameda, California, July 5, 2011.

AEI Consultants (AEI) 2011b. Phase II Subsurface Investigation, 1600 to 1630 Park Street, Alameda, California, August 16, 2011.

AEI Consultants (AEI) 2011c. Interim Corrective Action Plan, 1630 Park Street, Alameda, California, September 2011.

AEI Consultants (AEI) 2011d. ICAP Comment Letter Response and Pilot Test Workplan Details, 1630 Park Street, Alameda, California, November 14, 2011.

AEI Consultants (AEI) 2012a. Investigation and Remedial Action Workplan, 1630 Park Street, Alameda, California, January 12, 2012.

AEI Consultants (AEI) 2012b. Corrective Action Plan, 1630 Park Street, Alameda, California, February 3, 2012.

AEI Consultants (AEI) 2012c. Data Gap and Interim Source Removal Workplan, 1630 Park Street, Alameda, California, May 4, 2012.

AEI Consultants (AEI) 2012d. Groundwater Monitoring and Soil Vapor Sampling Report, 1630 Park Street, Alameda, California, June 11, 2012

CalClean Inc. (CalClean) 2012a. High Vacuum Dual Phase Extraction Report, Good Chevrolet, 1630 APark Street, Alameda, CA, January 19, 2012.

CalClean Inc. (CalClean) 2012b. High Vacuum Dual Phase Extraction Report, Good Chevrolet, 1630 APark Street, Alameda, CA, May 9, 2012.

Helley, et al, 1997. Quaternary Geology of Alameda County and Surrounding Areas: Derived from Digital Database, USGS Open File Report 97-97.

Norfleet Consultants, 1998. Groundwater Study and Water Supply History of the East Bay Plain, Alameda and Contra Costa Counties, CA., June 15, 1998.

United States Environmental Protection Agency (EPA) 2004. How to Evaluate Alternative Cleanup Technologies for Underground Storage Tank Sites, EPA 510-R-04-002, May 2004.

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#### 11.0 Report Limitations and Signatures

This report has been prepared by AEI Consultants relating to the environmental release at the property located at 1630 Park Street, in the City of Alameda, Alameda County, California. Material samples have been collected and analyzed, and where appropriate conclusions drawn and recommendations made based on these analyses and other observations. This report may not reflect subsurface variations that may exist between sampling points. These variations cannot be fully anticipated, nor could they be entirely accounted for, in spite of exhaustive additional testing. This document should not be regarded as a guarantee that no further contamination, beyond that which could have been detected within the scope of past investigations is present beneath the property or that all contamination present at the site will be identified, treated, or removed. Undocumented, unauthorized releases of hazardous material(s) and petroleum products, the remains of which are not readily identifiable by visual inspection and/or are of different chemical constituents, are difficult and often impossible to detect within the scope of a chemical specific investigation and may or may not become apparent at a later time. All specified work has been performed in accordance with generally accepted practices in environmental engineering, geology, and hydrogeology and performed under the direction of appropriate California registered professionals.

Please contact the undersigned at (925) 746-6000 if you have any questions or need any additional information.

Sincerely,

**AEI Consultants** 

Robert Robitaille Project Manager

TERED eter McIntyre, PG, REA ALIFORM Vice President, Principal Geologist

#### **DISTRIBUTION:**

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TABLES

#### Table 1

#### Well Construction Details

AEI Project No. 298931, 1630 Park Street, Alameda, California

Well ID Number	Well Installation Date	Elevation TOC (feet)	Casing Material	Total Depth (feet)	Well Depth (feet)	Borehole Diameter (inches)	Casing Diameter (inches)	Screened Interval (feet)	Slot Size (inches)	Filter Pack Interval (feet)	Filter Pack Material
AS-1	11/14/2011	-	PVC	25	25	8	2	20 - 25	0.02	20 - 25	#3 Sand
DPE-1	11/15/2011	25.88	PVC	16	15	10	4	7 - 15	0.01	6.5 - 16	#2/12 Sand
DPE-2	11/15/2011	26.22	PVC	16	15	10	4	7 - 15	0.01	6.5 - 16	#2/12 Sand
DPE-3	11/14/2011	25.27	PVC	16	14	10	4	7 - 14	0.01	6.5 - 16	#2/12 Sand
DPE-4	1/19/2012	26.06	PVC	17	17	10	4	8 - 17	0.01	7.5 - 17	#2/12 Sand
DPE-5	1/20/2012	26.25	PVC	18	18	10	4	8 - 18	0.01	7.5 - 18	#2/12 Sand
DPE-6	1/20/2012	26.13	PVC	18	18	10	4	8 - 18	0.01	7.5 - 18	#2/12 Sand
DPE-8	1/20/2012	25.36	PVC	18	18	10	4	8 - 18	0.01	7.5 - 18	#2/12 Sand
DPE-9	1/20/2012	25.09	PVC	18	18	10	4	8 - 18	0.01	7.5 - 18	#2/12 Sand
DPE-10	1/20/2012	25.14	PVC	17	17	10	4	8 - 17	0.01	7.5 - 17	#2/12 Sand
DPE-11	1/20/2012	25.57	PVC	18	18	10	4	8 - 18	0.01	7.5 - 18	#2/12 Sand
MW-1	1/15/1987	25.37	PVC	-	20	8	2	5 - 20	-	-	-
MW-2	1/15/1987	25.48	PVC	-	20	8	2	5 - 20	-	-	-
MW-3	1/15/1987	25.13	PVC	-	20	8	2	5 - 20	-	-	-
MW-4	4/20/1994	25.58	PVC	-	23	8	2	8 - 23	-	-	-
MW-5	4/20/1994	24.31	PVC	-	22	8	2	7 - 22	-	-	-
VP-1	12/6/2011	-	Poly/SS	6	6	1.25	1/4	5.1 - 5.6	Mesh	4.7 - 6	#30 Mesh Sand
VP-2	12/6/2011	-	Poly/SS	5.9	5.9	1.25	1/4	5.1-5.6	Mesh	4.7-5.9	#30 Mesh Sand
VP-3	12/6/2011	-	Poly/SS	5.75	5.75	1.25	1/4	5.1-5.6	Mesh	4.7-5.75	#30 Mesh Sand

PVC = polyvinyl chloride Poly/SS = Polyethelene tubing with stainless-steel tip TOC = top of casing "-" = not available

## Table 2 Groundwater Elevation Data AEI Project No. 298931, 1600-1630 Park Street, Alameda, CA

Well ID	Date	Well	Depth to	Groundwater
(Screen Interval)	Collected	Elevation	Water	Elevation
、		(ft amsl)	(ft)	(ft amsl)
MW-1	Jul-89	104.76	8.93	95.83
(5 - 20 feet bgs)	Apr-91		7.59	97.17
	Jul-92		8.72	96.04
	Aug-92		9.09	95.67
	Sep-92		9.25	95.51
	Oct-92		9.34	95.42
	Nov-92		9.21	95.55
	Dec-92		9.26	95.50
	Jan-93		7.81	96.95
	Feb-93		7.32	97.44
	Mar-93		7.20	97.56
	Apr-93		7.31	97.45
	May-93		8 29	96.47
	lul-93		8 30	96.46
	Oct-93		0.30	95.38
	lan 94		8.80	05.06
	Jan- 74		0.00	95.90
	Api - 94		0.13	90.01
	Jul-94		8.70	90.00
	Uct-94		9.37	95.39
	Jan-94		7.18	97.58
	Apr-95		6.76	98.00
	Jan-97		7.03	97.73
	Nov-98		8.10	96.66
	Jan-01		7.70	97.06
	Jun-02		7.30	97.46
	Nov-02		8.14	96.62
	Feb-03		6.87	97.89
	Jun-03		7.05	97.71
	Apr-08	25.42	7.13	18.29
	Jun-11	25.42	7.54	17.88
	Dec-11	25.37	8.02	17.35
	Jan-12	25.37	8.08	17.29
	May-12	25.37	6.87	18.50
		101.0/	0.04	05 ( 0
	Jui-89	104.86	9.24	95.62
(5 - 20 feet bgs)	Apr-91		8.01	96.85
	Jul-92		9.03	95.83
	Aug-92		9.34	95.52
	Sep-92		9.46	95.40
	Oct-92		9.52	95.34
	Nov-92		9.42	95.44
	Dec-92		9.47	95.39
	Jan-93		8.25	96.61
	Feb-93		7.85	97.01
	Mar-93		7.77	97.09
	Apr-93		7.86	97.00
	May-93		8.20	96.66
	Jul-93		8.72	96.14
	Oct-93		9.64	95.22
	Jan-94		9.12	95.74
	Apr-94		8.56	96.30
	Jul-94		9.02	95.84
	Oct-94		9.59	95.27
	lan-94		7 71	97 15
	Apr-95		7.40	97.46

## Groundwater Elevation Data AEI Project No. 298931, 1600-1630 Park Street, Alameda, CA

Well ID	Date	Well	Depth to	Groundwater
(Screen Interval)	Collected	Elevation	Water	Elevation
		(ft amsl)	(ft)	(ft amsl)
$MW_{-2}$ (continued)	lan_97		7 55	07 31
	Nov 98		7.55 8.40	97.31
	lan 01		8 08	90.37
			0.00 רר ר	90.70
	Juli-02		9.50	97.09
	NUV-U2		0.00	90.30
			7.30	97.40
	Juli-03 Apr 09	25 52	1.37	97.29 17.0E
	Apr-08	20.0Z	/.0/ 7.2E	17.85
	Juli-11	20.0Z	7.30	10.17
	Dec-11	25.48	8.41	17.07
	Jan-12	25.48	8.43	17.05
	iviay-12	25.48	7.41	18.07
MW-3	Jul-89	104.52	9.00	95.52
(5 - 20 feet bgs)	Apr-91		8.06	96.46
	Jul-92		8.82	95.70
	Aug-92		9.05	95.47
	Sep-92		9.09	95.43
	Oct-92		9.15	95.37
	Nov-92		9.05	95.47
	Dec-92		9.12	95.40
	Jan-93		8.18	96.34
	Feb-93		7.98	96.54
	Mar-93		7.94	96.58
	Apr-93		8.02	96.50
	May-93		7.69	96.83
	lul-93		8.65	95.87
	Oct-93		0.00	NC
	lan_9/		8.03	NC
	Δnr-94		8.52	96.00
	Api-74		8.86	95.66
	Oct 94		0.00	05.00
	lan 94		7.25	95.27
	Δnr-95		7.63	96.88
	Apr-73		7.04	06 77
	Nov 98		9.75 9.29	06.1 <i>1</i>
	lan 01		8.00	90.14
			7.91	06.71
	Nov 02		9.01 9.27	06.15
	Fob 03		7 / 9	90.13 07 0 <i>1</i>
			7.40	97.04
	Juli-03	25.17	7.07 A T T	70.0J
	Api-00	25.17	7.74	17.43
	Juli-11 Doc 11	25.17	7.30 9.25	17.07
	Det-11	20.10	0.20	10.00
	JdII-12 May 12	20.10 0E 10	0.20	10.00
	1VId y-12	25.15	7.04	17.49
MW-4	Apr-94	104.86	9.29	95.57
(8 - 23 feet bgs)	Jul-94		9.55	95.31
	Oct-94		9.83	95.03
	Jan-94		8.88	95.98
	Apr-95		8.80	96.06
	Jan-97		-	-
	Nov-98		-	-
	Jan-01		-	-
	Jun-02		-	-
	Nov-02		-	

#### Groundwater Elevation Data

AEI Project No. 298931, 1600-1630 Park Street, Alameda, CA

Well ID	Date	Well	Depth to	Groundwater
(Screen Interval)	Collected	Elevation	Water	Elevation
		(ft amsl)	(ft)	(tt amsl)
MW-4 (continued)	Feb-03		_	-
	Jun-03		-	-
	Apr-08	25.53	8.73	16.80
	Jun-11	25.53	8.52	17.01
	Dec-11	25.58	-	-
	Jan-12	25.58	-	-
	May-12	25.58	8.96	16.62
MW-5	Apr-94	103.62	8.27	95.35
(7 - 22 feet bgs)	Jul-94		8.50	95.12
	Oct-94		8.92	94.70
	Jan-94		7.61	96.01
	Apr-95		8.48	95.14
	Jan-97		6.79	96.83
	Nov-98		8.12	95.50
	Jan-01		7.67	95.95
	Jun-02		7.61	96.01
	Nov-02		8.01	95.61
	Feb-03		7.22	96.40
	Jun-03	24.21	7.43	96.19 14.0E
	Apr-08	24.31	7.30	10.95
		24.31	7.45	10.00
	lan-12	24.32	_	-
	May-12	24.31	7.46	16.86
DPF-1	Dec-11	25.88	8 81	17 07
(7 - 15 feet bas)	Jan-12	25.88	8.78	17.10
(· ···································	May-12	25.88	7.72	18.16
DPF-2	Dec-11	26.22	9.29	16 93
(7 - 15 feet bas)	lan-12	26.22	7.27	18.25
(/ 101001.530)	May-12	26.22	7.89	18.33
DPF-3	Dec-11	25.27	7 92	17.35
(7 - 15 feet bas)	Jan-12	25.27	8.98	16.29
(· ···································	May-12	25.27	6.75	18.52
DPF-4	lan-12	26.06	9.11	16.95
(8-17 feet bgs)	May-12	26.06	8.59	17.47
DPF-5	lan-12	26.25	-	-
(8-18 feet bgs)	501 <sup>-</sup> 12	20.20	-	-
	lan_12	26 12	8 58	17 55
(8-18 feet has)	Mav-12	26.13	7 43	18.70
(0 10 1001 093)	May 12	20.13	7.43	10.70
DPF-8	lan-12	25 36	_	_
(8-18 feet bgs)	Jail-12	20.00	-	-
DPE-9	Jan-12	25.09	8.12	16.97
(o-ro reer bys)				
DPE-10	Jan-12	25.14	-	-
(8-17 feet bgs)	May-12	25.14	7.73	17.41
	lan 10	<b>25 57</b>		
UPE-11 (9.10 foot boo)	Jan-12 May 12	20.07 05.57	- 7 00	- 17 47
(o- to reet bys)	iviay-1∠	20.07	1.90	17.07

ft amsl = feet above mean sea level

#### Table 2

## Groundwater Elevation Data AEI Project No. 298931, 1600-1630 Park Street, Alameda, CA

Well ID	Date	Well	Depth to	Groundwater		
(Screen Interval)	Collected	Elevation	Water	Elevation		
		(ft amsl)	(ft)	(ft amsl)		

All water level depths are measured from the top of casing "-" = not measured bgs = below ground surface

#### Table 3 HVDPE Pilot Test Monitoring Data AEI Project No. 298931, 1630 Park Street, Alameda, California

																Ob	servation W	ells						
				Extraction	L			Water		DI	PE-1	DF	PE-2	DP	PE-3	M	W-1	M	W-2	M	W-3	VP-1	VP-2	VP-3
				Casing	System	System	Influent	Totalizer	Calculated	Induced	Depth to	Induced	Depth to	Induced	Depth to	Induced	Induced	Induced						
	Extraction		Duration	Vacuum	Vacuum	Flow Rate	Conc.	Readings	Flowrate	Vacuum	Water	Vacuum	Water	Vacuum	Water	Vacuum	Water	Vacuum	Water	Vacuum	Water	Vacuum	Vacuum	Vacuum
-	Well(s)	Date	(Days)	(in. of Hg)	(in. of Hg)	(cfm)	(ppmv)	(gallons)	(gpm)	$(in. H_2O)$	(feet TOC)	$(in. H_2O)$	(feet TOC)	$(\text{in. H}_2\text{O})$	(feet TOC)	$(in. H_2O)$	$(in, H_2O)$	$(in. H_2O)$						
Baseline		12/5/11						12380			8.61		8.75		7.73		8.27		8.48		8.34			
Start	DPE-1	12/6/11 8:00																						
	DPE-1	12/6/11 11:40						12410																
Stop	DPE-1	12/7/11 8:00	1.0	10	25	37	6410	13140	0.60			0.73	9.61	0.39	8.42	0.22	9.19	0.60	9.41	0.03	8.77	0.44	0.78	0.22
Start	DPE-3	12/7/11 9:00																						
	DPE-3	12/7/11 20:00						13450																
Stop	DPE-3	12/8/11 8:00	1.0	8	25	30	9240	13760	0.43	0.48	11.04	1.55	12.28			0.10	9.97	0.15	9.94	0.00	9.29	0.00	0.01	0.07
Start	DPE-2	12/8/11 8:30																						
	DPE-2	12/8/11 20:00						14020																
Stop	DPE-2	12/9/11 8:00	1.0	8	23	46	2670	14190	0.24	0.30	11.10			0.00	11.00	0.10	10.07	0.05	10.01	0.00	9.39	0.00	0.01	0.04
Start	DPE-1 to DPE-3	12/9/11 9:00																						
	DPE-1 to DPE-3	12/9/11 20:00						14910																
Stop	DPE-1 to DPE-3	12/30/11 4:00	20.8	7 / 5 / 0	15	177	876	42310	0.94							0.35		0.35		0.00		0.50	0.40	0.35
	DPE-1 to DPE-3	12/30/11 9:30															9.49		9.52		9.21			
Start	MW-2	12/30/11 12:15																						
	MW-2	12/30/11 20:00						43370																
	MW-2	12/31/11 8:00						43630	0.36															
Stop	MW-2	12/31/11 12:00	1.0		25	36	653			0.75		0.07		0.05		0.15				0.05		0.60	0.50	0.20

#### Notes:

in. of Hg Inches of mercury vacuum

in.  $H_2O$  Inches of water vacuum

cfm Cubic feet per minute

ppmv Parts per million by volume

feet TOC Feet below the top of casing

gpm Gallons per minute

# Table 4HVPDE Vaccum Radius of Influence CalculationsAEI Project No. 298931, 1630 Park Street, Alameda, California

Extr	action Well D	PE-1	Extr	action Well D	PE-2	Extr	action Well D	PE-3	Extr	IW-2	
		Induced			Induced			Induced			Induced
Observation	Distance (X)	Vacuum (Y)	Observation	Distance (X)	Vacuum (Y)	Observation	Distance (X)	Vacuum (Y)	Observation	Distance (X)	Vacuum (Y)
Well	(feet)	(in. H <sub>2</sub> O)	Well	(feet)	(in. H <sub>2</sub> O)	Well	(feet)	(in. H <sub>2</sub> O)	Well	(feet)	(in. H <sub>2</sub> O)
	17	0.44		20	0.00		24	0.00		16	0.00
VP-1	15	0.44	VP-1	30	0.00	VP-1	34	0.00	VP-1	16	0.60
<b>VP-2</b>	10	0.78	<b>VP-2</b>	25	0.01	<b>VP-2</b>	29	0.01	<b>VP-2</b>	13	0.50
VP-3	20	0.22	VP-3	26	0.04	VP-3	16	0.07	VP-3	23	0.20
ROI	23	0.10	ROI	13	0.10	ROI	12	0.10	ROI	30	0.10
DPE-2	19	0.73	DPE-1	19	0.30	DPE-1	19	0.48	DPE-1	13	
DPE-3	19	0.39	DPE-3	12	0.00	DPE-2	12	1.55	DPE-2	32	
MW-1	27	0.22	MW-1	33	0.10	MW-1	22	0.10	DPE-3	30	
MW-2	13	0.60	MW-2	32	0.05	MW-2	30	0.15	MW-1	27	
MW-3	36	0.03	MW-3	47	0.00	MW-3	54	0.00	MW-3	36	
ROI	35	0.10	ROI	21	0.10	ROI	35	0.10	ROI	N/C	
				<b>a</b>							
Average ROI	using VP-1 th	rough VP-3	19	feet							
Average ROI	using all other	r wells	30	feet							

Notes:

ROI calculated as X on a semi-log linear regression trendline for a given value of Y. The trendline has the for Y = C\*Ln(X) + B, or  $X = e^{(Y-B)/C}$ 

in.  $H_2O$  = Inches of water vacuum N/C = Not calculated

# Table 5HVDPE Soil Pore Volume Exchange Rate CalculationsAEI Project No. 298931, 1630 Park Street, Alameda, California

		Well		
Parameter	DPE-1	DPE-2	DPE-3	Source
Effective Porosity (unitless)	0.3	0.3	0.3	Assumed value
ROI (feet)	35	21	35	Table 13
Thickness (feet)	8	8	8	One half of the thickness of the contaminated zone
Volume (feet <sup>3</sup> )	30,788	11,084	30,788	Calculated as pi*ROI(feet) <sup>2</sup> *Thickness (feet)
System Flow Rate (feet <sup>3</sup> per minute)	37	46	30	Table 12
Pore Volume Exchange (minutes)	249.63	72.28	307.88	(Calculated as Effective Porosity * Volume ) / System Flow Rate
Pore Volume Exchange (hours)	4.16	1.20	5.13	1 hour $= 60$ minutes
Pore Volume Exchange (days)	0.17	0.05	0.21	1  day = 24  hours
Pore Volumes Exchanged per day	5.77	19.92	4.68	1 / Pore Volume Exchange (days)
Average Pore Volumes Exchanged per day		10.12		

cfm = Cubic feet per minute

ROI = Radius of influence

Reference:

EPA (United States Environmental Protection Agency). 2004. How to Evaluate Alternative Cleanup Teclmologies for Underground Storage Tank Sites, A Guide for Corrective Action Plan Reviewers. May 2004.
## **HVDPE** Groundwater Radius of Influence Calculations AEI Project No. 298931, 1630 Park Street, Alameda, California

	Initial Dept	h to Water	Final Depth	to Water			Distance to
Observation					Drawdown		Nearest Ext. Well
Well	Date	(feet)	Date	(feet)	(feet)	Nearest Ext. Well	(feet)
							22
MW-1	12/5/2011	8.27	12/30/2011	9.49	1.22	DPE-3	22
MW-2	12/5/2011	8.48	12/30/2011	9.52	1.04	DPE-1	13
MW-3	12/5/2011	8.34	12/30/2011	9.21	0.87	DPE-1	36

Notes:

Initial depth to water measurements were collected at the beginning of the pilot test event.

The final depth to water measurements were collected after the HVDPE operation from wells DPE-1 through DPE-3.

Groundwater Analytical Data- Monitoring Wells AEI Project No. 298931, 1600-1630 Park Street, Alameda, CA

Sample	Date	Notes	TPH-d	TPH-mo	TPH-g EPA Meth	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	MTBE	TAME	TBA	EDB	1,2-DCA EPA Met	DIPE	Ethanol	ETBE	Methanol	Lead
10			(µg/L)	(µg/L)	(µg/L)	(μg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(μg/L)	(µg/L)	(µg/L)	(µg/L)
MW-1	1/21/1987		-	-	21.020	1.148	8.627	1.792	6.012	-	-	-	-	-	-	-	-	-	-	
	1/11/1989		-	-	1.400	74	10	13	5.0	-	-	-	-	-	-	-	-	-	-	-
	7/12/1989		-	-	1.200	470	49	45	33	-	-	-	-	-	-	-	-	-	-	-
	4/9/1991		-	-	850	260	10	15	12	-	-	-	-	-	-	-	-	-	-	-
	7/14/1992		-	-	13.000	2,300	1.200	1.200	1.200	-	-	-	-	-	-	-	-	-	-	-
	10/7/1992		-	-	3,600	1,600	80	120	120	-	-	-	-	-	-	-	-	-	-	-
	1/11/1993		-	-	1,200	410	16	23	19	-	-	-	-	-	-	-	-	-	-	-
	4/23/1993	а	-	-	2,200	720	180	82	150	-	-	-	-	-	-	-	-	-	-	-
	7/8/1993	a	-	-	3,200	1,200	110	97	100	-	-	-	-	-	-	-	-	-	-	-
	10/15/1993	а	-	-	3,700	1,400	43	94	36	-	-	-	-	-	-	-	-	-	-	-
	1/25/1994	а	-	-	1,600	, 680	16	41	35	-	-	-	-	-	-	-	-	-	-	-
	4/28/1994	а	-	-	6,100	1,900	380	250	340	-	-	-	-	-	-	-	-	-	-	-
	7/27/1994	а	-	-	6,000	1,800	510	220	450	-	-	-	-	-	-	-	-	-	-	-
	10/27/1994	а	-	-	3,000	1,100	79	82	87	-	-	-	-	-	-	-	-	-	-	-
	1/26/1995	а	-	-	1,600	660	100	82	87	-	-	-	-	-	-	-	-	-	-	-
	4/13/1995	а	-	-	3,800	1,200	270	120	260	-	-	-	-	-	-	-	-	-	-	-
	7/21/1995	а	-	-	5,200	1,500	450	190	400	-	-	-	-	-	-	-	-	-	-	-
	10/25/1995	а	-	-	5,900	1,800	450	210	400	-	-	-	-	-	-	-	-	-	-	-
	1/21/1997	а	-	-	3,100	1,100	87	160	180	<7.3	-	-	-	-	-	-	-	-	-	-
	11/12/1998	а	-	-	1,000	280	3	3.3	7.9	<30	-	-	-	-	-	-	-	-	-	-
	1/16/2001	а	-	-	4,700	1,20	18	150	49	-	<5	<5.0	<25	<5.0	<5.0	<5.0	-	<5.0	-	-
	6/27/2002	а	-	-	5,900	230	7.7	<5	1,500	-	<5	<5.0	<50	<5.0	<5.0	<5.0	-	<5.0	-	-
	11/18/2002	а	-	-	3,100	890	12	310	28	-	<2.5	-	-	<2.5	<2.5	-	-	-	-	-
	2/20/2003	d	-	-	260	100	0.72	<0.5	<0.5	-	<0.5	-	-	<0.5	<0.5	-	-	-	-	-
	6/11/2003	а	-	-	3,100	480	6.7	220	420	-	<2.5	-	-	<2.5	<2.5	-	-	-	-	-
	4/3/2008	а	-	-	2,700	280	21	130	230	<25	<1.0	<1.0	<4.0	<1.0	<1.0	<1.0	<100	<1.0	<1,000	<0.5
	6/23/2011	а	-	-	610	100	6.2	46	77	-	<2.5	<2.5	<10	-	-	<2.5	-	<2.5	-	-
	12/6/2011	а	-	-	900	160	<5.0	68	76	-	<5.0	<5.0	<20	-	-	<5.0	-	<5.0	-	-
	1/24/2012	а	-	-	190	25	<1.0	1.4	4.6	<1.0	-	-	-	-	-	-	-	-	-	-
	5/18/2012	f	210	<50	2,600	200	51	93	610	<5.0	-	-	-	-	-	-	-	-	-	-

Groundwater Analytical Data- Monitoring Wells AEI Project No. 298931, 1600-1630 Park Street, Alameda, CA

Sample ID	Date	Notes	TPH-d	TPH-mo	TPH-g FPA Meth	Benzene	Toluene	Ethylbenzene 8260B	Xylenes	MTBE	MTBE	TAME	TBA	EDB	1,2-DCA FPA Met	DIPE hod 8260	Ethanol B	ETBE	Methanol	Lead
10			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(μg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-2	1/21/1987		-	-	5,018	386	1,981	285	1,432	-	-	-	-	-	-	-	-	-	-	-
	1/11/1989		-	-	10,000	3,000	410	240	190	-	-	-	-	-	-	-	-	-	-	-
	7/12/1989		-	-	7,600	2,700	540	250	320	-	-	-	-	-	-	-	-	-	-	-
	4/9/1991		-	-	4,900	910	210	130	200	-	-	-	-	-	-	-	-	-	-	-
	7/14/1992		-	-	13,000	4,400	1,500	610	1,100	-	-	-	-	-	-	-	-	-	-	-
	10/7/1992		-	-	11,000	5,200	1,500	500	1,200	-	-	-	-	-	-	-	-	-	-	-
	1/11/1993		-	-	17,000	940	1,100	480	930	-	-	-	-	-	-	-	-	-	-	-
	4/23/1993	а	-	-	52,000	13,000	8,400	1,700	5,300	-	-	-	-	-	-	-	-	-	-	-
	7/8/1993	а	-	-	6,400	2,500	470	280	530	-	-	-	-	-	-	-	-	-	-	-
	10/15/1993	а	-	-	17,000	3,900	870	500	940	-	-	-	-	-	-	-	-	-	-	-
	1/25/1994	а	-	-	16,000	5,400	1,140	640	1,500	-	-	-	-	-	-	-	-	-	-	-
	4/28/1994	а	-	-	15,000	4,00	910	480	1,200	-	-	-	-	-	-	-	-	-	-	-
	7/27/1994	а	-	-	18,000	6,000	760	630	1,600	-	-	-	-	-	-	-	-	-	-	-
	10/27/1994	а	-	-	9,500	2,700	230	320	640	-	-	-	-	-	-	-	-	-	-	-
	1/26/1995	а	-	-	5,900	1,900	290	230	500	-	-	-	-	-	-	-	-	-	-	-
	4/13/1995	а	-	-	10,000	3,300	620	360	930	-	-	-	-	-	-	-	-	-	-	-
	7/21/1995	а	-	-	9,900	3,300	320	390	830	-	-	-	-	-	-	-	-	-	-	-
	10/25/1995	а	-	-	13,000	4,900	400	580	990	-	-	-	-	-	-	-	-	-	-	-
	1/21/1997	а	-	-	7,600	2,600	310	330	660	<20	-	-	-	-	-	-	-	-	-	-
	11/12/1998	а	-	-	31,000	11,000	750	1,500	2,300	<900	-	-	-	-	-	-	-	-	-	-
	1/16/2001	а	-	-	23,000	8,200	260	1,000	820	<30	-	<30	<150	<30	<30	<30	-	<30	-	-
	6/27/2002	а	-	-	39,000	7,000	1,800	690	4,000	-	<5	<5.0	<5.0	<5.0	6.1	<5.0	-	<5.0	-	-
	11/18/2002	а	-	-	15,000	5,700	76	1,000	150	-	<12	-	-	<12	<12	-	-	-	-	-
	2/20/2003	а	-	-	26,000	6,300	1,100	1,300	1,900	-	<5.0	-	-	<5.0	<5.0	-	-	-	-	-
	6/11/2003	а	-	-	37,000	7,100	2,300	2,000	3,600	-	<25	-	-	<25	<25	-	-	-	-	-
	4/3/2008	а	-	-	4,100	760	96	250	130	<50	<2.5	<2.5	<10	<2.5	<2.5	<2.5	<250	<2.5	<2,500	<0.5
	6/23/2011	а	-	-	6,500	2,100	210.0	560	310	-	<50	<50	<200	-	-	<50	-	<50	-	-
	12/6/2011	а	-	-	4,800	1,600	<50	260	<50	-	<50	<50	<200	-	-	<50	-	<50	-	-
	1/24/2012	а	-	-	2,500	100	22.0	<5.0	410	<5.0	-	-	-	-	-	-	-	-	-	-
	5/18/2012	f	68	<50	140	14	2.8	2.9	12	<0.5	-	-	-	-	-	-	-	-	-	-

Groundwater Analytical Data- Monitoring Wells AEI Project No. 298931, 1600-1630 Park Street, Alameda, CA

Sample	Date	Notes	TPH-d	TPH-mo	TPH-g FPA Meth	Benzene	Toluene 8021B or	Ethylbenzene	Xylenes	MTBE	MTBE	TAME	TBA	EDB	1,2-DCA FPA Met	DIPE	Ethanol	ETBE	Methanol	Lead
10			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-3	1/21/1987		-	-	10,287	1,428	3,281	610	2,761	-	-	-	-	-	-	-	-	-	-	-
	1/11/1989		-	-	5,300	1,800	340	150	160	-	-	-	-	-	-	-	-	-	-	-
	7/12/1989		-	-	7,800	3,100	900	300	480	-	-	-	-	-	-	-	-	-	-	-
	4/9/1991		-	-	9,400	1,400	730	200	510	-	-	-	-	-	-	-	-	-	-	-
	7/14/1992		-	-	17,000	3,500	390	390	260	-	-	-	-	-	-	-	-	-	-	-
	10/7/1992		-	-	9,200	4,300	470	390	610	-	-	-	-	-	-	-	-	-	-	-
	1/11/1993		-	-	2,000	740	29	58	28	-	-	-	-	-	-	-	-	-	-	-
	4/23/1993	а	-	-	6,500	2,600	280	260	190	-	-	-	-	-	-	-	-	-	-	-
	7/8/1993	а	-	-	5,200	2,100	260	250	180	-	-	-	-	-	-	-	-	-	-	-
	10/15/1993	а	-	-	11,000	3,500	580	430	370	-	-	-	-	-	-	-	-	-	-	-
	1/25/1994	а	-	-	6,200	2,500	270	160	28	-	-	-	-	-	-	-	-	-	-	-
	4/28/1994	а	-	-	5,300	1,700	190	210	180	-	-	-	-	-	-	-	-	-	-	-
	7/27/1994	а	-	-	5,900	2,000	360	260	330	-	-	-	-	-	-	-	-	-	-	-
	10/27/1994	а	-	-	8,000	2,200	580	260	170	-	-	-	-	-	-	-	-	-	-	-
	1/26/1995	а	-	-	3,700	1,200	150	150	190	-	-	-	-	-	-	-	-	-	-	-
	4/13/1995	а	-	-	4,000	1,400	200	180	210	-	-	-	-	-	-	-	-	-	-	-
	7/21/1995	а	-	-	5,700	2,000	280	270	280	-	-	-	-	-	-	-	-	-	-	-
	10/25/1995	а	-	-	11,000	3,500	1,100	460	680	-	-	-	-	-	-	-	-	-	-	-
	1/21/1997	а	-	-	2,200	860	63	71	80	<5	-	-	-	-	-	-	-	-	-	-
	11/12/1998	d	-	-	180	44	0.51	<0.5	0.92	<20	-	-	-	-	-	-	-	-	-	-
	1/16/2001	а	-	-	64	11	0.77	<0.5	<0.5	-	<5	<1.0	<5.0	<1.0	1.4	<1.0	-	<1.0	-	-
	6/27/2002		-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	-	<0.5	-	-
	11/18/2002	а	-	-	110	21	1	<0.5	<0.5	-	<0.5	-	-	<0.5	<0.5	-	-	-	-	-
	2/20/2003		-	-	<50	2.5	<0.5	<0.5	<0.5	-	<0.5	-	-	<0.5	<0.5	-	-	-	-	-
	6/11/2003		-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	-	<0.5	<0.5	-	-	-	-	-
	4/3/2008	а	-	-	7,600	2,400	58	250	170	<100	<5.0	<5.0	<20	<5.0	<5.0	<5.0	<500	<5.0	<5,000	<0.5
	6/23/2011	а	-	-	1,300	560	21	86	150	-	<12	<12	<50	-	-	<12	-	<12	-	-
	12/6/2011	а	-	-	1,800	620	28	22	46	-	<17	<17	<67	-	-	<17	-	<17	-	-
	1/24/2012	а	-	-	3,700	1,200	68	34	130	<25	-	-	-	-	-	-	-	-	-	-
	5/18/2012	f	<50	<50	75	5.3	<0.5	<0.5	1.6	<0.5	-	-	-	-	-	-	-	-	-	-

Groundwater Analytical Data- Monitoring Wells AEI Project No. 298931, 1600-1630 Park Street, Alameda, CA

Sample ID	Date	Notes	TPH-d	TPH-mo	TPH-g EPA Meth	Benzene ods 8020, 3	Toluene 8021B, or	Ethylbenzene 8260B	Xylenes	MTBE	MTBE	TAME	TBA	EDB	1,2-DCA EPA Met	DIPE hod 8260	Ethanol B	ETBE	Methanol	Lead
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
MW-4	4/28/1994	b,c	-	-	190	3.8	2.9	2.1	3.1	-	-	-	-	-	-	-	-	-	-	-
	7/27/1994	а	-	-	180	15	9.2	7.6	28	-	-	-	-	-	-	-	-	-	-	-
	10/27/1994	а	-	-	130	8.6	6.6	4.5	17	-	-	-	-	-	-	-	-	-	-	-
	1/26/1995		-	-	110	6.5	1.2	1.8	11	-	-	-	-	-	-	-	-	-	-	-
	4/13/1995		-	-	82	3.9	<0.5	<0.5	2.5	-	-	-	-	-	-	-	-	-	-	-
	7/21/1995		-	-	130	8.8	1.3	4.5	7.6	-	-	-	-	-	-	-	-	-	-	-
	10/25/1995		-	-	95	6.6	1.7	4.3	7	-	-	-	-	-	-	-	-	-	-	-
	4/3/2008		-	-	130	1.6	<0.5	0.89	0.85	<5.0	<0.5	<0.5	<2.0	<0.5	<0.5	<0.5	<50	<0.5	<500	<0.5
	6/23/2011	а	-	-	53	2.7	<0.5	1.0	1.7	-	<0.5	<0.5	<2.0	-	-	<0.5	-	<0.5	-	-
	5/23/2012	f	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
MW-5	4/28/1994	а	-	-	30,000	4,000	3,000	810	3,500	-	-	-	-	-	-	-	-	-	-	-
	7/27/1994	а	-	-	9,300	2,000	800	290	940	-	-	-	-	-	-	-	-	-	-	-
	10/27/1994	а	-	-	15,000	2,700	1,300	420	1,100	-	-	-	-	-	-	-	-	-	-	-
	1/26/1995	а	-	-	7,900	2,100	680	240	860	-	-	-	-	-	-	-	-	-	-	-
	4/13/1995	а	-	-	7,900	2,400	580	340	630	-	-	-	-	-	-	-	-	-	-	-
	7/21/1995	а	-	-	11,000	3,400	760	610	1,200	-	-	-	-	-	-	-	-	-	-	-
	10/25/1995	а	-	-	13,000	2,900	830	570	1,100	-	-	-	-	-	-	-	-	-	-	-
	1/21/1997	а	-	-	2,600	750	65	1,860	280	<5	-	-	-	-	-	-	-	-	-	-
	11/12/1998		-	-	<50	<0.5	<0.5	<0.5	<0.5	<5	-	-	-	-	-	-	-	-	-	-
	1/16/2001		-	-	<50	11	<0.5	<0.5	0.82	-	<5	<1.0	<5.0	<1.0	<1.0	<1.0	-	<1.0	-	-
	6/27/2002		-	-	<50	<0.5	<0.5	<0.5	<0.5	-	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	-	<0.5	-	-
	11/18/2002	а	-	-	130	17	3.8	2.1	16	-	<0.5	-	-	<0.5	<0.5	-	-	-	-	-
	2/20/2003		-	-	<50	5.6	0.51	<0.5	0.68	-	<0.5	-	-	<0.5	<0.5	-	-	-	-	-
	6/11/2003	а	-	-	170	48	<0.5	<0.5	1.4	-	<0.5	-	-	<0.5	<0.5	-	-	-	-	-
	4/3/2008	а	-	-	31,000	490	3,400	1,600	5,300	<250	<10	<10	<40	<10	<10	<10	<1,000	<10	<10,000	<0.5
	6/23/2011	а	-	-	82	5.1	<0.5	12.0	8.4	-	<0.5	<0.5	<2.0	-	-	<0.5	-	<0.5	-	-
	5/18/2012	f	<50	<50	120	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-

## Groundwater Analytical Data- Monitoring Wells AEI Project No. 298931, 1600-1630 Park Street, Alameda, CA

Sample ID	Date	Notes	TPH-d	TPH-mo	TPH-g EPA Meth	Benzene ods 8020,	Toluene 8021B, or	Ethylbenzene 8260B	Xylenes	MTBE	MTBE	TAME	TBA	EDB	1,2-DCA EPA Met	DIPE hod 8260	Ethanol )B	ETBE	Methanol	Lead
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
DPE-1	12/6/2011	а	-	-	9,200	1,800	570	460	1,100	-	<50	<50	<200	-	-	<50	-	<50	-	-
	1/24/2012 5/18/2012	a f	- 280	- <50	3,200 540	170 49	58 <1.0	<5.0 <1.0	620 17	<5.0 <1.0	-	-	-	-	-	-	-	-	-	-
DPE-2	12/6/2011	a	-	-	22,000	2,100 44	3,300 26	650 11	3,300 150	- <2.5	<100	<100	<400 -	-	-	<100	-	<100	-	-
	5/18/2012	f	<50	<50	220	33	3.2	<0.5	30	<0.5	-	-	-	-	-	-	-	-	-	-
DPE-3	12/6/2011 1/24/2012	a a	-	-	6,400 5,500	550 290	560 240	180 44	1,000 1,000	- <5.0	<17 -	<17 -	<67 -	-	-	<17 -	-	<17 -	-	-
	5/18/2012	f	260	<50	1,100	78	37	11	89	<1.7	-	-	-	-	-	-	-	-	-	-
DPE-4	1/24/2012 5/18/2012	a f	- <50	- <50	730 <50	66 <0.5	6.0 <0.5	7.1 <0.5	83 <0.5	2.5 <0.5	-	- -	-	- -	-	- -	- -	- -	-	-
DPE-6	1/24/2012 5/18/2012	a f	- <50	- <50	64* <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	3.2 <0.5	<0.5 <0.5	-	-	-	-	-	-	-	-	-	-
DPE-9	1/24/2012	а	<50	<50	4,400	160	390	93	1,100	<5.0	-	-	-	-	-	-	-	-	-	-
DPE-10	5/18/2012	f	420	<50	1,700	150	<5.0	<5.0	<5.0	160	-	-	-	-	-	-	-	-	-	-
DPE-11	5/18/2012	f	260	<50	930	6.4	4.6	4.6	160	<1.2	-	-	-	-	-	-	-	-	-	-
ESL			83	83	83	0.044	2.9	3.3	2.3	0.023	0.023	NA	0.075	0.00033	0.0045	NA	NA	NA	NA	750

Groundwater Analytical Data- Monitoring Wells

AEI Project No. 298931, 1600-1630 Park Street, Alameda, CA

Sample	Date	Notes	TPH-d	TPH-mo	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	MTBE	TAME	TBA	EDB	1,2-DCA	DIPE	Ethanol	ETBE	Methanol	Lead
ID					EPA Meth	ods 8020, 8	3021B, or	8260B		ī	ł				EPA Met <sup>i</sup>	.nod 8260	JB			I
			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)

TPH-g= total petroleum hydrocarbons as gasoline

TPH-d= total petroleum hydrocarbons as diesel

TPH-mo= total petroleum hydrocarbons as motor oil

MTBE = Methyl tertiary butyl ether

TAME = Tertiary amyl methyl ether

TBA = Tertiary butyl alcohol

EDB = 1,2-Dibromoethane

1,2-DCA = 1,2-Dichloroethane

DIPE = Diisopropyl ether

ETBE = Ethyl tertiary butyl ether

"-" = Not analyzed or data not available

 $\mu g/L = micrograms per liter (ppb)$ 

ESL = Environmental Screening Levels, Table A-2, Shallow Soil, Commercial- Potential Drinking Water, San Francisco Regional Water Quality Control Board, Revised May 2008 NA = Not applicable

a = Laboratory note indicates the unmodified or weakly modified gasoline is significant.

b = Laboratory note indicates heavier gasoline range compounds are significant (aged gas?).

c = Laboratory note indicates gasoline range compounds are significant with no recognizable pattern.

d = Laboratory note indicates that lighter gasoline range coounds (the most mobile fraction) are significant.

e = Laboratory note indicates that one to a few isloated non-targed peaks are present.

f = Laboratory note indicates that low surrogate due to matrix interference.

\* Total petroleum hydrocarbons as diesel = <50; Total petroleum hydrocarbons as motor oil = <250

### Soil Vapor Monitoring Analytical Data AEI Project No. 298931, 1600-1630 Park Street, Alameda, CA

Comple				Laborato	ory Analytical Resul	ts			Field Monito	oring Results	
ID	Sample Date	TPH-g (µg/m3)	Benzene (µg/m3)	Toluene (µg/m3)	Ethylbenzene (µg/m3)	Xylenes (µg/m3)	Isopropyl Alcohol (µg/m3)	TVH (ppm)	CH4 %	O2 %	CO2 %
VP-1	5/17/2012 5/30/2012	<1,800	<6.5	<7.7	<8.8	<27	<50	0	0	17.7	0.5
VP-2	5/17/2012 5/30/2012	<1,800	<6.5	<7.7	<8.8	<27	<50	0	0	18.4	0.4
VP-3	5/17/2012 5/30/2012	<1,800	<6.5	<7.7	<8.8	<27	<50	0	0	18.2	0.9
ESL		10,000	84	63,000	980	21,000	NA				

Notes:

TPH-g= total petroleum hydrocarbons as gasoline

 $\mu$ g/m3 = micrograms per cubic meter (ppbv)

NA = Not applicable

ESL = Environmental Screening Levels, Table E-2, San Francisco Regional Water Quality Control Board

(Shallow Soil Gas- Lowest Residential), Revised May 2008

Field monitoring performed using an Eagle photo-ionization detector/multi-gas meter

APPENDIX A

BORING LOGS

## Key to Log of Boring

Sheet 1 of 1

Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Sampling Resistance, blows/ft	Relative Consistency	USCS Symbol	Graphic Log	MA	ATERIAL DESCRIPTION			REMARKS AND OTHER TESTS
1 COLUM 1 Elev 2 Dep 3 Sar sho 4 Sar 5 Sar driv inte	2 vation (f oth (feet nple Typ wn. nple Nu npling F ren sam rval usin	3 CRIPT feet): E ): Dep pe: Ty mber: Resista pler or ng the	4 (ION: Eleva th in pe o Sam ance, ne fo ham	5 S ation (N feet b f soil s nple ide , blows oot (or o nmer ic	6 MSL, fee elow the ample c entification off: Num distance lentified	7 et). e groun ollecte on num ber of show on the	nd si ed at mbe f blov /n) be e boi	urface. the depth interval r. ws to advance eyond seating ring log.	<ul> <li>9</li> <li>6 Relative Consister material.</li> <li>7 USCS Symbol: L</li> <li>8 Graphic Log: Graencountered.</li> <li>9 MATERIAL DES May include con other descriptive</li> <li>10 REMARKS AND regarding drilling</li> </ul>	ency: ISCS aphic o CRIP <sup>-</sup> sisten text. OTHE or sa	Relative cor symbol of th depiction of TION: Descr ncy, moisturd ER TESTS: mpling mad	10 nsistency of the subsurface ne subsurface material. the subsurface material ription of material encountered e, color, and Comments and observations e by driller or field
FIELD A CHEM: ( COMP: ( CONS: ( LL: Liqui TYPICA Bentonit Bentonit Fat CLA	AND LA Chemica Compace One-dim id Limit, L MATE te te chips te powder Y, CLAY w/S Y/SILT (CH-	BORA al tests ction te nensio perce <b>ERIAL</b>	ATOF s to a est nal c ent <b>GR</b>	RY TES assess consoli APHIC	ST ABB corrosi dation te SYMB Cla Cla SIM SIM SIM SIM SIM SIM SIM SIM SIM SIM	REVIA vity est OLS vyey GRA vyey GRAVE y GRAVE y GRAVE y GRAVE	ATIC VEL to VEL to EL (GM) EL to CI EL to Gr	Gravelly CLAY (GC-CH) Gravelly CLAY (GC-CL) ayey GRAVEL (GM-GC) avelly SILT (GM-MH) avelly SILT (GM-MH)	Personnel. PI: Plasticity Index, per SA: Sieve analysis (per UC: Unconfined compr WA: Wash sieve (perce Artificial Fill SILT, SILT w/SAND, SANDY SIL SILT, SILT with SAND, SANDY SIL SILT, SILT with SAND, SANDY SIL USANDY SILT WITH SAND, SANDY SIL SILT, SILT WITH SANDY SIL SILT, SILT WITH SANDY SIL SILT, SILT WITH SANDY SIL SILT, SILT WITH SANDY SILL SILT, SILT WITH SANDY SILL SILT, SILT WITH SANDY SILL SILT, SILT WITH SANDY SILL SILT, SILT WITH SANDY SILL SILT SANDY	cent cent p essive ent pa T (MH) SILT (ML-	passing No. e strength te ssing No. 20	200 Sieve) est, Qu, in ksf 00 Sieve) y SAND to Sandy SILT (SM-MH) y SAND to Sandy SILT (SM-ML) y to Clayey SAND (SM-SC) orly graded SAND (SM) orly graded SAND (SM)
Lean CL Claystor Lean-Fa Cuttings Lean CL Ean CL Clayed G Solution Boulder TYPICA Shelk (Thin	AY, CLAY w he at CLAY, CLA S AY/PEAT (C GRAVEL (GC CLAY (CL-ML s <b>L SAMI</b> by Tube -walled, by Tube	//SAND, 8 AY W/SAN SL-OL) C) -) <b>PLER</b> fixed	GRA	APHIC		y GRAVE orly grade anite avel out ill graded ill graded orly to We orly grade <u>DLS</u> sampl ed	GRAVI GRAVI GRAVI ell grade ed GRA	avelly SILT (GM-ML) VEL with Silt (GP-GM) EL with Silt (GW-GM) ad GRAVEL (GW-GP) VEL (GP) DW 2.5-i Calit	Low to High plasticity PEAT (OL- Sandstone Clayey SAND (SC) Clayey SAND to Sandy CLAY (S Clayey SAND to Sandy CLAY (S Clayey SAND to Sandy CLAY (S Shale Siltstone Siltstone Siltstone Siltstone Silts SAND (SM) nch-OD Modified fornia w/ brass liners	он) c-ch) c-cl) <u>OTH</u> <u>¥</u>	We We We We SiL Ber Pa Ba Cra Bra Gra ER GRAPH Water leve	II graded SAND (SW) II graded SAND with Clay (SW-SC) II graded SAND with Sit (SW-SM) T, SILT w/SAND, SANDY SILT (ML) ntonite plug shaltic Concrete (AC) orly graded SAND with Sit (SP-SM) ck Rock - fine grained, exhibiting a bedding ay rock, large grain size <b>IIC SYMBOLS</b> el (at time of drilling, ATD) el (after waiting a given time)
Bulk 3-incl	-walled, Sample h-OD Ca s rings	fixed aliforn	head ia w/	d)	Auger CME S 2-inch spoon	samp Sample -OD u (SPT)	ler er Inline )	Grat	o Sample ner Sample	↓ 	Minor char within a str Inferred or strata ?Queried co	nge in material properties ratum <sup>.</sup> gradational contact between ontact between strata

## GENERAL NOTES

1: Soil classifications are based on the Unified Soil Classification System. Descriptions and stratum lines are interpretive, and actual lithologic changes may be gradual. Field descriptions may have been modified to reflect results of lab tests.

2: Descriptions on these logs apply only at the specific boring locations and at the time the borings were advanced. They are not warranted to be representative of subsurface conditions at other locations or times.

## Log of Boring AS-1

Definition         11/1/1/11         Logged By Bryan Campbell         Checked By Bryan Campbell           Definition         StarsPripe         10 inch         For Definition	Project: Alamec Project Location Project Number	la, Califo n: 1630 : 29893′	ornia Park Street, Alameda, California	Log	of Bo Sheet	<b>oring AS-1</b> 1 of 1
understand     understand <th>Date(s) Drilled 11/14/11 Drilling Method Hollow Stem Drill Rig Type Geoprobe 64 Groundwater Level and Date Measured Borehole Bockfill Well Comp</th> <th>Auger 520D etion</th> <th>Logged By       Bryan Campbell         Drill Bit       10 inch         Drilling       Contractor         RSI Drilling       Sampling         Method(s)       Direct-Push Sample         Location       1630 Park Street, Ala</th> <th>r Checke Total D of Bore Surface Hamme Data meda, California</th> <th>epth hole 25 fee Elevation</th> <th>n Campbell et bgs</th>	Date(s) Drilled 11/14/11 Drilling Method Hollow Stem Drill Rig Type Geoprobe 64 Groundwater Level and Date Measured Borehole Bockfill Well Comp	Auger 520D etion	Logged By       Bryan Campbell         Drill Bit       10 inch         Drilling       Contractor         RSI Drilling       Sampling         Method(s)       Direct-Push Sample         Location       1630 Park Street, Ala	r Checke Total D of Bore Surface Hamme Data meda, California	epth hole 25 fee Elevation	n Campbell et bgs
a       a       a       a       b       Neat Cement Grout         b       Silly Sand: Fine sand, weak, brown, low plastic fines, moist.       a       b       Blank, Schedule 40 PVC, 24         b       Color change to olive.       a       b       b       b       b         c       a       b       c       c       c       c       c         c       a       b       c       c       c       c       c       c         c       a       c	Depth, feet Sample PID Reading (ppm)	USCS Symbol USCS Symbol Graphic Log	MATERIAL DESCRIPTION Asphalt Gravel with Sand: Gravel up to 3 cm olive weak and	N	Well Log	Remarks - Well Box
20 20 20 20 20 4 5 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5	- - - - - - - - - - - - - - - - - - -		<ul> <li>Graver man outline. Only of o only, only, only, and dry.</li> <li>Silty Sand: Fine sand, weak, brown, low plastic fines, i</li> <li>✓ Color change to olive.</li> </ul>	moist		- Neat Cement Grout - Blank, Schedule 40 PVC, 2-inc
20 4 3 Sand 5 Creen with 0.020 Slot, 5 Chedule 40 PVC, 2-inch 8-inch Borehole 5 1 6 4 7 5 feet bgs 7 7 8	150		<ul> <li>✓ Color change to brown.</li> <li>✓ Saturated.</li> </ul>	-		- Bentonite Chips
	20- - - - - - - - - - - - - - - - - - -		Bottom of Boring at 25 feet bgs			- #3 Sand - Screen with 0.020 Slot, Schedule 40 PVC, 2-inch -8-inch Borehole

## [Well Log on Left.tp Project: Alameda, California s.bgs Project Location: 1630 Park Street, Alameda, California Project Number: 298931

Logs

## Log of Boring DPE-1

931		umber	. 230	331							
ogs\298	Date(s) Drilled 11/1	5/11				Logged By Bryan Campbell		Checked	By I	Brya	n Campbell
oring L	Drilling Method Hol	low Stem	n Auge	r		Drill Bit Size/Type <b>10 inch</b>		Total Dep of Boreho	oth ole 1	l6 fee	et bgs
Istall∖B	Drill Rig Type Geo	oprobe 6	620D			Drilling Contractor RSI Drilling		Surface E	Eleva	ation	
Well Ir	Groundwater and Date Me	Level asured				Sampling Method(s) Direct-Push Sampler	r	Hammer Data			
- Rem	Borehole Backfill	ell Comp	letion			Location 1630 Park Street, Ala	meda, Califor	nia			
ial version of BorinGS - visit www.gookinsoftware.com for purchase information: X:PROJECTS/CHARACTERIZATION & REMEDIATIONDUE DIL298931 PH II (Buestad Foley St) Alameda - AAI(D) -	10- - - - - - - - - - - - - - - - - - -	aldung aldung algung	Asphalt _ SP         	Graphic Log	Asphalt         Sand: Fine sand, fines, moist.         Silty Sand: Fine s         ✓ Color change t         Bottom of Boring	MATERIAL DESCRIPTION minor gravel up to 1 cm, weak, angul and, brown, weak, low plasticity fines to olive. to brown. at 16 feet bgs	l lar gravel, nonpla	astic			Remarks • Well Box • Neat Cement Grout • Blank, Schedule 40 PVC, 4-inch • Bentonite Chips • #2/12 Sand • Screen with 0.010 Slot, Schedule 40 PVC, 4-inch • 10-inch borehole
Printed with a											Plate

Depth, feet	Sample	PID Reading (ppm)	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION		Well Log	Remarks
-	-		Asphalt _ SP _ 		Asphalt Sand: Fine sand, minor gravel up to 1 cm, weak, angular gravel, nonplastic fines, moist.			- Well Box - Neat Cement Grout
- 5 -		32 2600	  - SM <sup>-</sup>		Silty Sand: Fine sand, brown, weak, low plasticity fines, moist.			Blank, Schedule 40 PVC, 4-inch
- - 10		2500	 		✓ Color change to olive.			#2/12 Sand Screen with 0.010 Slot,
- - - 15		73 3 62			✓ Color change to brown.			Schedule 40 PVC, 4-inch
-	-				Bottom of Boring at 16 feet bgs			
20 - -	-					-		
- 25	-		 			-		
- - 30—	-					-		
								Plate

## Log of Boring DPE-2

Project Number: 298931							Sneet	1 Of 1			
Date(s) Drilled 11/	/15/	1				Logged By Bryan Campbell Checked		d By Bryan Campbell			
Drilling Method Ho	llov	/ Stem	Auge	er		Drill Bit Size/Type <b>10 inch</b>	Total De of Boreh	Total Depth of Borehole <b>16 feet bgs</b>			
Drill Rig Type Ge	eopr	obe 66	620D			Drilling Contractor RSI Drilling	Surface	Elevation			
Groundwate and Date Me	er Le easu	vel red				Sampling Method(s) Direct-Push Sampler	Hammer Data				
Borehole Backfill	/ell	Compl	etion			Location 1630 Park Street, Alar	neda, California				
400 0-	Deptin, leet Sample	PID Reading (ppm)	USCS Symbol Concrete	Graphic Log	Concrete	MATERIAL DESCRIPTION		Well Log	Remarks		
	-		_SM_		Silty Sand: Fine s	and, weak, brown, nonplastic fines, m	oist.		- Well Box		
5-	-	3 16	 				- - -		- Neat Cement Grout - Blank, Schedule 40 PVC, 4-inch		
10-		1800			<sup>↓</sup> Color change t	o olive.	- - - -		- Bentonite Chips - #2/12 Sand - Screen with 0.010 Slot, Schedule 40 PVC, 4-inch		

Printed with a trial version of BorinGS - visit www.gookinsoftware.com for purchase information: X:PROJECTS/CHARACTERIZATION & REMEDIATION/DUE DIL/298931 PH II (Buestad Foley St) Alameda - AA/(D) - Rem Well InstallBoring Logs/298931 Logs.bgs [Well Log on Left.t

7

7

15

20

25

30

V

Color change to brown.

Bottom of Boring at 16 feet bgs

10-inch Borehole

## Log of Boring DPE-3

FIDJECTIN	umber.	29093					
Date(s) Drilled 11/14	/11			Logged By Bryan Campbell	C	Checked By Brya	n Campbell
Drilling Method Hollo	w Stem	Auger		Drill Bit Size/Type 10 inch	T	Total Depth of Borehole 16 fe	et bgs
Drill Rig	orobe 66	20D		Drilling Contractor RSI Drilling	s	Surface Elevation	
Groundwater L	evel sured			Sampling Method(s) Direct-Push Sampler	, F	Hammer Data	
Borehole Backfill Wel	I Comple	etion		Location 1630 Park Street, Alar	neda, California	a	
Printed with a trial version of BorinGS - visit www.gookinsoftware.com for purchase information: X:PROJECTS/CHARACTERIZATION & REMEDIATIONDUE DILv298931 PH II (Buestad Foley St) Alameda - AA(U)	eldmes 154 × 154 × 1415 × 3366 × 13 × 15	Graphic Log	<ul> <li>Asphalt Gravel with Sand: dry.</li> <li>Visqueen plast Silty Sand: Fine s</li> <li>✓ Color change t</li> <li>✓ Color change t</li> <li>Bottom of Boring</li> </ul>	MATERIAL DESCRIPTION Creater of the second structure o	lar, nonplastic fine		Remarks -Well Box Neat Cement Grout Blank, Schedule 40 PVC, 4-inch Bentonite Chips #2/12 Sand Screen with 0.010 Slot, Schedule 40 PVC, 4-inch 10-inch Borehole 10-inch Borehole

Depth, feet	Sample	PID Reading (ppm)	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	Well Log	Remarks
-	-		Asphalt _GW _ 		Asphalt Gravel with Sand: Gravel up to 3 cm, olive, weak, angular, nonplastic fines, dry.		- Well Box - Neat Cement Grout
5		154	_SM_ 		Visqueen plastic sheeting noted.     Silty Sand: Fine sand, weak, brown, low plastic fines, moist.  ✓ Color change to olive		Bentonite Chips
- 10		336	 		-		#2/12 Sand Screen with 0.010 Slot, Schedule 40 PVC, 4-inch
15		15			✓ Color change to brown.		·10-inch Borehole
- - - - - -	-		  		Bottom of Boring at 16 feet bgs	-	
- 25 - -	-					-	
30							
							Plate

## Log of Boring DPE-4

Sheet 1 of 1

Date(s) Drilled January 19, 2012	Logged By Harmony Tomsun	Checked By Bryan Campbell
Drilling Method Hollow Stem Auger	Drill Bit Size/Type 10 inch	Total Depth of Borehole 17 feet bgs
Drill Rig Type MARL 5T	Drilling Contractor Gregg Drilling	Approximate Surface Elevation
Groundwater Level 9.12 feet measured on 1/23/12	Sampling Method(s) Direct-Push Sampler	Hammer Data W2012-0055
Borehole Backfill Well Completion	Location 1630 Park Street, Alameda, California	



X: PROJECTSICHARACTERIZATION & REMEDIATIONADVANCED REMEDIATION/Buestad (298931) Alameda - JAS/Boning Logs/DPE-4 to DPE-11.bgs [1-Boring Log.tpl]

## Log of Boring DPE-5

Date(s) Drilled January 20, 2012	Logged By Harmony Tomsun	Checked By Bryan Campbell
Drilling Method Hollow Stem Auger	Drill Bit Size/Type 10 inch	Total Depth of Borehole 18 feet bgs
Drill Rig Type MARL 5T	Drilling Contractor Gregg Drilling	Approximate Surface Elevation
Groundwater Level 8.85 feet measured on 1/23/12	Sampling Method(s) Direct-Push Sampler	Hammer Data W2012-0055
Borehole Backfill Well Completion	Location 1630 Park Street, Alameda, California	

Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Sampling Resistance, blows/ft	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER TESTS
	0-					Concrete SM		Concrete and Fill	
	5-	-				- 014		- Sandy silt, black/pale brown -	-
-	· -		DPE-5-8			SM		Sand, brown (7.5YR 4/4), moderately loose, 40% slit.	
-			DPE-5-11			SM		- moderately loose, very moist to wet, hydrocarbon odor. - moderately loose, very moist to wet, hydrocarbon odor. 	
-	· -					SM			
-	15 —		DF 2-3-14			5101			
-		X	DPE-5-18					Bottom of Boring at 18 feet bgs	
-									
_	-								
	25 —								
-									
-									
	30 —	1	. <u> </u>		L	1	1		

## Log of Boring DPE-6

Date(s) Drilled January 19, 2012	Logged By Harmony Tomsun	Checked By Bryan Campbell
Drilling Method Hollow Stem Auger	Drill Bit Size/Type 10 inch	Total Depth of Borehole 18 feet bgs
Drill Rig Type MARL 5T	Drilling Contractor Gregg Drilling	Approximate Surface Elevation
Groundwater Level 8.59 feet measured on 1/23/12	Sampling Method(s) Direct-Push Sampler	Hammer Data W2012-0055
Borehole Backfill Well Completion	Location 1630 Park Street, Alameda, California	

Elevation (feet)	● Depth (feet)	Sample Type	Sample Number	Sampling Resistance, blows/ft	Relative Consistency	USCS Symbol	Graphic Log		REMARKS AND OTHER TESTS
-						Concrete		Concrete and Fill No recovery.	
-		-							
_						SP	iu u u	Fine grained sand, borwn (7.5YR 4/4)	-
-		×	DPE-6-7			SM		Silty sand with (20-30% clay), dark yellowish brown (10YR 3/6), – moderate plasticity, firable. –	
_						SM		Sand with 30% silt, greyish green (5G 4/2), moderately loose, y – moist, hydrocarbon odor.	
	- 10 —   		DPE-6-10 DPE-6-1 DPE-6-14					 V Yellowish brown 10YR 5/6 	
-		-				SM		Silty sand, yellowish brown, no plasticity, saturated, loose. - -	
-								Bottom of Boring at 18 feet bgs	
-									
_	20-								
-									
-		-							
-									
-	25 —							– –	
-									
-	-								
-	30 —						1	I	

## Log of Boring DPE-7

Sheet 1 of 1

Date(s) Drilled January 19, 2012	Logged By Harmony Tomsun	Checked By Bryan Campbell
Drilling Method Hollow Stem Auger	Drill Bit Size/Type 10 inch	Total Depth of Borehole 18 feet bgs
Drill Rig Type MARL 5T	Drilling Contractor Gregg Drilling	Approximate Surface Elevation
Groundwater Level 14 feet ATD 14 feet ATD	Sampling Method(s) Direct-Push Sampler	Hammer Data W2012-0055
Borehole Backfill Well Completion	Location 1630 Park Street, Alameda, California	



X: PROJECTS) CHARACTERIZATION & REMEDIATION ADVANCED REMEDIATION Buestad (298931) Alameda - JASIBoring Logs/DPE-4 to DPE-11.bgs [1-Boring Log.tpl]

## Log of Boring DPE-8

Date(s) Drilled January 20, 2012	Logged By Harmony Tomsun	Checked By Bryan Campbell
Drilling Method Hollow Stem Auger	Drill Bit Size/Type 10 inch	Total Depth of Borehole 18 feet bgs
Drill Rig Type MARL 10T	Drilling Contractor Gregg Drilling	Approximate Surface Elevation
Groundwater Level 8.21 feet measured on 1/23/12	Sampling Method(s)	Hammer Data W2012-0055
Borehole Backfill Well Completion	Location 1630 Park Street, Alameda, California	

Elevation (feet)	• Depth (feet)	Sample Type	Sample Number	Sampling Resistance, blows/ft	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER TESTS
						Asphalt		Asphalt and Fill	
_									
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-	5-	$\left  \right $							
-		$\left  \right $							
-		$\left  \right $							
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-		1							
	- 15								
-									•
-								Bottom of Boring at 18 feet bas	
-									
-	20	$\left  \right $							
		$\left  \right $							
-									
-								-	
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-	25								
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.									
_	30 —								

## Log of Boring DPE-9

Date(s) Drilled January 20, 2012	Logged By Harmony Tomsun	Checked By Bryan Campbell
Drilling Method Hollow Stem Auger	Drill Bit Size/Type 10 inch	Total Depth of Borehole 18 feet bgs
Drill Rig Type MARL 10T	Drilling Contractor Gregg Drilling	Approximate Surface Elevation
Groundwater Level 8.16 feet measured on 1/23/12	Sampling Method(s)	Hammer Data W2012-0055
Borehole Backfill Well Completion	Location 1630 Park Street, Alameda, California	

Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Sampling Resistance, blows/ft	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER TESTS
						Asphalt		Asphalt and Fill	
_	_								
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_	-								
	5								
		$\left  \right $							
	-								
_	-							- <u>¥</u> -	
-	-	1							
	10 —	1						— — —	
_									
_	-								
_	15 —								
	-								
-	-							Bottom of Boring at 18 feet bgs	
	-								
-	20 —	1							
-	-	1						-	
_	25 —								
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-	-	$\left  \right $							
-	-	$\left  \right $							
-	-	$\left  \right $							
	30 —								
l									

## Log of Boring DPE-10

Date(s) Drilled January 20, 2012	Logged By Harmony Tomsun	Checked By Bryan Campbell		
Drilling Method Hollow Stem Auger	Drill Bit Size/Type 10 inch	Total Depth of Borehole 17 feet bgs		
Drill Rig Type MARL 10T	Drilling Contractor Gregg Drilling	Approximate Surface Elevation		
Groundwater Level 8.32 feet measured on 1/23/12	Sampling Method(s)	Hammer Data W2012-0055		
Borehole Backfill Well Completion	Location 1630 Park Street, Alameda, California	-		

	Elevation (feet)	Depth (feet)	Sample Type	Sample Number	Sampling Resistance, blows/ft	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER TESTS
og.tpl		0 —					Asphalt		Asphalt and Fill	
ring L	-	-							⊢ Well Not Logged. –	
[1-Bo	-	-								
1.bgs	_	-								
DPE-1	_	5								
4 to [	_	, _								
\$DPE	_	_								
g Logs	-	-								
Boring	-	-								
-JAS	_	10 —								
neda .	_	-								
I) Alar	_	-								
98931	-	-								
tad (2	_	-								
∖Bues		15 —							— —	
TION	-	-								
VEDIA		_							Bottom of Boring at 17 feet bgs	
DRE	_	_								
ANCE	_	20 —								
VADV	-	-								
VIION	-	-								
AEDIA	-	-								
& REA	-	-								
		25 —								
RIZAT	-	-								
ACTE	-	-								
CHAR	-	-								
CTS/C	_	-								
ROJE		30 —			1		L	1		
Ξl										

## Log of Boring DPE-11

Date(s) Drilled January 20, 2012	Logged By Harmony Tomsun	Checked By Bryan Campbell	
Drilling Method Hollow Stem Auger	Drill Bit Size/Type 10 inch	Total Depth of Borehole 18 feet bgs	
Drill Rig Type MARL 10T	Drilling Contractor Gregg Drilling	Approximate Surface Elevation	
Groundwater Level 8.79 feet measured on 1/23/12	Sampling Method(s)	Hammer Data W2012-0055	
Borehole Backfill Well Completion	Location 1630 Park Street, Alameda, California		

-	Elevation (feet)	, Depth (feet)	Sample Type	Sample Number	Sampling Resistance, blows/ft	Relative Consistency	USCS Symbol	Graphic Log	MATERIAL DESCRIPTION	REMARKS AND OTHER TESTS
-og.tp		0 —					Asphalt		Asphalt and Fill	
oring l	_	_								
gs [1-B	_	_								
-11.b	-	-								
to DPE		5 —								
PE-4	-	-								
Logs/E	_	-								
Boring	_	_							<u>¥</u>	
-JAS/E		10 —								
meda .	-	-								
31) Ala	-	-								
(29893	_	-								
estad	_	15 —								
ON/Bu	_	-								
DIAT	_	_								
REME	_	-							Bottom of Boring at 18 feet bgs	
NCED	_	-								
ADVA	-	20								
ATION	-	-								
MEDIA	-	_								
& RE	-	-								
ATION		25 —							–	
TERIZ	_	_								
ARAC	-	-								
TS/CH.	-	-								
OJEC <sup>-</sup>		30 —								
X:\PR										

## APPENDIX B

CAL-CLEAN AIR AND WATER DISCHARGE PERMITS





Plant# 12558Page1ExpiresOCT 1, 2012This document does not permit the holder to violate any District regulation or other law.

ORIGINAL SENT TO:

Noel Shenoi Calclean Inc 3002 Dow Ave, Suite 142 Tustin, CA 92780

Calclean Inc 151 Southgate Avenue Daly City, CA 94015

Location: 151 Southgate Avenue Daly City, CA 94015

S# DESCRIPTION [Schedule] PAID . . . . . . . . . . . . . - - - -1 CHEM> Contaminated soil remediation, Contaminated soil vapor 1303 Portable Vapor Extraction System [G1] Abated by: A1 Afterburner 2 CHEM> Contaminated soil remediation, Contaminated soil vapor 1303 Portable Vapor Extraction System [G1] Abated by: A2 Afterburner CHEM> Contaminated soil remediation, Contaminated soil vapor 3 1303 Portable Soil Vapor Extraction System [G1] Abated by: A3 Furnace-Firebox 3 Permit Sources, 0 Exempt Sources \*\*\* See attached Permit Conditions \*\*\*

The operating parameters described above are based on information supplied by permit holder and may differ from the limits set forth in the attached conditions of the Permit to Operate. The limits of operation in the permit conditions are not to be exceeded. Exceeding these limits is considered a violation of District regulations subject to enforcement action.



## C E R T I F I E D M A I L (Return Receipt Requested) Certified Mail No. 7005-2570-000-6630-1099

October 11, 2011

Noel Shenoi Cal Clean, Inc. 3002 Dow Avenue, #142 Tustin, CA 92780

Dear Mr. Shenoi:

### Re: Wastewater Special Discharge Permit No. 36810870 Discharge Location: 1630 Park St, Alameda CA

Enclosed is the Special Discharge Permit for Cal Clean, Inc. Please read the Permit terms and conditions and the enclosed *Special Discharge Permit Standard Terms and Conditions*, July 2010 Edition. As a Permit holder, you are legally responsible for complying with all Permit conditions and requirements.

Cal Clean, Inc. shall report to the Environmental Services Division any changes, permanent or temporary, to the premises or operations that significantly affect the quality or volume of the permitted discharge or deviate from the terms and conditions under which the Permit was granted.

If you have any questions regarding this Permit, please contact Jen Jackson of the Environmental Services Division at (510) 287-0818.

Sincerely,

BENNETT K. HORENSTEIN Manager of Environmental Services

BKH:JJ:jj

Enclosures

P.O. BOX 24055 . OAKLAND . CA 94623-1055 . (510) 287-1405

21 DH 60

W:\NAB\IDS\Permits\Special Discharge\Permits\Cal Clean, Inc\Cover Letter.doc



### **GENERAL CONDITIONS**

- I. Cal Clean, Inc. shall comply with all items of the following two documents:
  - a. EBMUD Ordinance No. 311
  - b. EBMUD Special Discharge Permit Standard Terms and Conditions, most recent edition.
- II. This Special Discharge Permit is a waiver of *EBMUD Ordinance No. 311, Title I, Section 5*, which prohibits the discharge of storm water, drainage water, and groundwater to the community sewer.
- III. Cal Clean, Inc. shall discharge Special Discharge Wastewater only from the specific source described in the Special Discharge Permit Applicant Form 1408 Middle Harbor Rd located at 1630 Park St, Alameda CA
- IV. Cal Clean, Inc. shall immediately cease discharge of treated or managed Special Discharge Wastewater if not in compliance with any of the terms and conditions of this Special Discharge Permit.
- V. Cal Clean, Inc. shall not discharge Special Discharge Wastewater authorized by this Special Discharge Permit after the expiration date.

## **COMPLIANCE REQUIREMENTS**

- I. Cal Clean, Inc. shall pretreat/manage, including sediment control, all Special Discharge Wastewater prior to discharge to the community sewer. Pretreatment or management shall be sufficient to achieve compliance with the limits established in this Special Discharge Permit.
- II. Cal Clean, Inc. shall post a sign in the work area stating "All Wastewater Discharge must comply with the Special Discharge Permit."
- III. Cal Clean, Inc. shall not discharge Special Discharge Wastewater to the community sewer during a rain event or within 24 hours after a rain event, which is defined as any precipitation greater than a drizzle.
- IV. Cal Clean, Inc. shall not discharge Special Discharge Wastewater to the community sewer at a flow rate greater than 100 gallons per minute.
- V. Cal Clean, Inc. shall obtain permission from the applicable city agency to discharge Special Discharge Wastewater to the community sewer.
- VI. Cal Clean, Inc. shall discharge all Special Discharge Wastewater to the community sewer through a totalizing flow meter.
- VII. Cal Clean, Inc. shall maintain a discharge logbook recording the date, time, and total volume of all Special Discharge Wastewater discharged to the community sewer.

### **REPORTING REQUIREMENTS**

Cal Clean, Inc. shall submit a semiannual technical report, including:

- A copy of all entries recorded in the discharge logbook described under Compliance Requirements, Paragraph VII.
- The authorized signature and certification statement (see *EBMUD Ordinance No. 311*, Title V, Section 3 for specific signature authority and statement requirements)

The report is due as follows:

Discharge Period	Report Due	
Permit effective date through December 31, 2011	January 13, 2012	
January 1 – June 30, 2012	July 13, 2012	
July 1 – permit expiration date	November 1, 2012	



#### WASTEWATER DISCHARGE LIMITS

Cal Clean, Inc. shall not discharge Special Discharge Wastewater to the community sewer if the strength of the wastewater exceeds:

EBMUD Ordinance No. 311, Wastewater Discharge Limits

#### SELF-MONITORING REPORTING REQUIREMENTS

Cal Clean, Inc. shall:

• Prior to start-up of the discharge to the community sewer, obtain representative samples of the Special Discharge Wastewater. Parameters to be monitored, sample types, and analytical test methods shall include:

Parameter	Sample Type	Method
Total Metals (Arsenic, Cadmium, Chromium, Copper, Lead, Nickel, Silver, Zinc)	Grab*	EPA 200.7, 200.8 or equivalent
Volatile Organic Compounds	Grab	EPA 624 or 8260B or equivalent
Oil & Grease, Hydrocarbon	Grab	EPA Method 1664 HEM-SGT
PCBs**	Grab	EPA Method 1668

\* A grab sample is defined as an individual sample collected in a short period of time not exceeding 15 minutes.

\*\* The PCB congeners benchmark for discharge is 0.017 ug/L per liter for the sum of the PCB congeners. EBMUD may require additional treatment if discharge concentrations exceed the benchmark. EPA method 1668 includes 209 congeners. The PCB data shall be obtained and reported as outlined in: (a) the California Regional Water Quality Control Board Order No. R2-2011-0012; and (b) the Sampling, Analysis, and Reporting Protocols Using Method 1668C for Final Order No. R2-2011-0012, NPDES Permit No. CA0038849.

- Submit analytical self-monitoring report to the attention of Jennifer Jackson, via FAX at 510-287-0621 or email to jacksonj@ebmud.com. The self-monitoring report shall include:
  - A signed analytical test report including parameters listed above
  - ☑ Chain of custody documentation
  - Authorized signature and certification statement (see *EBMUD Ordinance No. 311*, Title V, Section 3 for specific signature authority and statement requirements)
- Cal Clean, Inc. shall not discharge any Special Discharge Wastewater without final approval from EBMUD.

### INSPECTIONS

The District may conduct random, unannounced inspections to verify compliance with the terms and conditions of this Special Discharge Permit. Cal Clean, Inc. shall grant District personnel access to the facility and discharge logs, to conduct inspections, and collect Special Discharge Wastewater samples.

#### **ENFORCEMENT AND PENALTIES**

Failure to comply with the terms and conditions of this Special Discharge Permit and the *EBMUD Special Discharge Permit Standard Terms and Conditions* may result in enforcement actions, including violation follow-up fees, civil enforcement penalties, and administrative fines of up to \$5,000 per day.

### **RATES AND CHARGES**

This Special Discharge Permit may be amended to include changes to rates and charges that may be established by the District during the term of this Special Discharge Permit. The current treatment charge is \$0.02 per gallon of Special Discharge Wastewater discharged to the community sewer. The Special Discharge Permit fee is \$995.



Cal Clean, Inc. 1630 Park St, Alameda CA Permit Number: 36810870

### **AUTHORIZATION**

Cal Clean, Inc. is hereby authorized to discharge Special Discharge Wastewater to the community sewer, subject to compliance with EBMUD Ordinance No. 311, Special Discharge Permit Terms and Conditions, and billing conditions.

Effective: 10/21/11

Expiration: 10/20/12

aria R. Williams

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10/20/11

Date

Director, Wastewater Department





Plant# 12568

Page

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#### \*\*\* PERMIT CONDITIONS \*\*\*

Source#	1	subject	to	Condition	ID#	17354
Source#	2	subject	to	Condition	ID#	19779
Source#	3	subject	to	Condition	ID#	22646





Plant# 12568

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\*\*\* PERMIT CONDITIONS \*\*\*

### COND# 17354 applies to S# 1

Application 16676; Plant 12568: Source S-1, Portable Soil Vapor Extraction System

- 1. The operator of this source shall notify the District at least 3 days prior to start-up of operation at any new location. The notification shall include:
  - a. Application Number (16676 & 1138) and Plant Number (12568)
  - b. Street address, including zip code, for the location where the equipment will be operated.
  - c. The name and telephone number of a contact person where the equipment will be operated.
  - d. The date of initial start-up and estimated duration of operations at that location.
  - e. The distance from the source to the outer boundary of the nearest K-12 school, or indication that the distance is greater than 1500 feet.

In the event that the start-up is delayed less than 5 days, the operator may provide telephone notice of said change to the assigned Plant Engineer in the Permit Services Division. If the start-up is delayed more than 5 days, written notification must be resubmitted.

- 2. This equipment shall not remain at any single location for a period in excess of 12 consecutive months, following the date of initial operation except as allowed under Section 2-1-220.10. If this portable equipment remains at any fixed location for more than 12 months, the portable permit will automatically revert to a conventional permanent location permit and will lose its portability. [Basis: Regulation 2-1-220.2]
- 3. This portable equipment, S-1, shall operate at all times in conformance with the eligibility requirements set forth in Regulation 2-1-220 for portable equipment.
- 4. This equipment is not to be operated within 1000 feet of the outer boundary of any K-12 school without specific authorization. Such operation will require the submittal of an application for a revised permit to operate so that the applicable requirements of the California Health and Safety Code Section 42301.6 may be met. These



Plant# 12568

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OCT 1, 2012

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#### \*\*\* PERMIT CONDITIONS \*\*\*

notification requirements have been satisfied for operation at the 2499 Chestnut Street in Oakland, California 94607. [Basis: Regulation 2-1-220.4]

5. This equipment shall be used exclusively for the removal of non-chlorinated volatile organic compounds associated with petroleum products from extracted soil vapor. This shall be demonstrated by onsite sampling required in condition 10 below.

6. Precursor Organic Compound (POC) emissions from Source S

1 shall be abated by Abatement device A-1, Dual-mode oxidizer, during all periods of operation. Soil vapor flow rate shall not exceed 500 scfm. [Basis: Regulation 8-47-301.1,2]

- 7. The POC abatement efficiency of abatement device A-1 shall be maintained at a minimum of 98.5% by weight for inlet POC concentrations greater than or equal to 2000 ppmv (measured as hexane). For inlet concentrations below 2000 ppmv and greater than or equal to 200 ppmv, a minimum abatement efficiency of 97% shall be maintained. For inlet concentrations below 200 ppmv, a minimum abatement efficiency of 90% shall be maintained. The minimum abatement efficiency shall be waived if outlet POC concentrations are shown to be less than 10 ppmv (measured as hexane). In no event shall benzene emissions to the atmosphere exceed 0.250 pounds per day. Annual emissions of benzene shall not exceed 6.40 pounds per year.
- 8. While operating as a thermal oxidizer, the minimum operating temperature of A-1 shall not be less than 1400 degrees Fahrenheit. While operating as a catalytic oxidizer, the minimum operating temperature of A-1 shall not be less than 600 degrees Fahrenheit.
- 9. To determine compliance with Condition Number 8, the dual-mode oxidizer shall be equipped with continuous measuring and temperature recording instrumentation. The temperature data collected from the temperature recorder shall be maintained in a file which shall be available for District inspection for a period of at least 2 years following the date on which such data are recorded.



Plant# 12568

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#### \*\*\* PERMIT CONDITIONS \*\*\*

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- 10. To determine compliance with Condition 7, within 24 hours after start-up of the thermal/catalytic oxidizer at any new location, and within 24 hours of conversion from thermal to catalytic mode at an existing location, the operator of this source shall:
  - a. Analyze the inlet gas to determine the vapor flow rate and concentration of POC present.
  - b. Analyze exhaust gas to determine the flow rate, and the concentration of benzene and POC present.
  - c Calculate the benzene emission rate in pounds per day based on the exhaust gas analysis and the operating exhaust flow rate. The soil vapor flow rate shall be decreased, if necessary, to demonstrate compliance with Condition 7
  - d. Calculate the POC abatement efficiency based on The inlet and outlet gas sampling analysis. For the purpose of determining compliance with condition 7, the POC concentration shall be reported as hexane.
  - e. Submit to the District's Permit Services Division the test results and emission calculations within one month from the testing date. Samples shall be analyzed according to modified EPA test methods 8015 and 8021 or their equivalent to determine the concentrations of POC and benzene.
- 11. Within 30 days from the completion of each treatment operation at a given location, the operator of this source shall provide the assigned Plant Engineer in the Permit Services Division with a summary showing the following information: a. The dates and total number of days that the equipment was at that location and the dates, and total number of days that the equipment was operated at that location. b. A summary of the abatement efficiency and benzene emission rate as determined and reported in the start-up sampling report required by condition 10e above. c. The results of any additionally performed emission test, analysis, or monitoring result logged in for the day of operation they were taken. d. The total throughput of contaminated soil vapor processed by S-1 at that location (indicated in cubic feet). e. The total emissions of benzene at that location based on the sampling results required by conditions 10 above (indicated in pounds).
- 12. Within 30 days after the end of every calendar year, the



Plant# 12568

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OCT 1, 2012

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#### \*\*\* PERMIT CONDITIONS \*\*\*

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operator of this source shall provide the assigned Plant Engineer in the Permit Services Division a year end summary showing the following information: a. The location(s) at which the equipment was operated including the dates operated at each location. b. The total throughput of contaminated soil vapor for the previous four quarters (indicated in cubic feet). c. The total benzene emissions for the previous four quarters (indicated in pounds). [Basis: Regulation 1-523]

- 13. The operator shall maintain a file containing all measurements, records and other data that are required to be collected pursuant to the various provisions of this conditional Permit to Operate. All measurements, records and data required to be maintained by the operator shall be retained for at least two years following the date the data is recorded. [Basis: Regulation 1-523]
- 14. Any non-compliance with these conditions shall be reported to the Compliance and Enforcement Division at the time that it is first discovered. The submittal shall detail the corrective action taken and shall include the data showing the exceedance as well as the time of occurrence.

#### COND# 19779 applies to S# 2

1. The operator of this source shall notify the District at least 3 days prior to start-up of operation at any new location. The notification shall include:

a. Street address, including zip code, for the location where the equipment will be operated.
b. The name and telephone number of a contact person where the equipment will be operated.
c. The date of initial start-up and estimated duration of operations at that location.
d. The distance from the source to the





Plant# 12568

Page

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\*\*\* PERMIT CONDITIONS \*\*\*

outer boundary of the nearest K-12 school, or indication that the distance is greater than 1500 feet.

In the event that the start-up is delayed less than 5 days, the operator may provide telephone notice of said change to the assigned Plant Engineer in the Permit Services Division. If the start-up is delayed more than 5 days, written notification must be resubmitted.

2. This equipment shall not remain at any single location for a period in excess of 12 consecutive months, following the date of initial operation except as allowed under Section 2-1-220.10. If this portable equipment remains at any fixed location for more than 12 months, the portable permit will automatically revert to a conventional permanent location permit and will lose its portability.

3. This portable equipment, S-2, shall operate at all times in conformance with the eligibility requirements set forth in Regulation 2-1-220 for portable equipments

4. This equipment is not to be operated within 1000 feet of the outer boundary of any K-12 school. Such operation will require the submittal of an application for a revised permit to operate so that the applicable requirements of the California Health and Safety Code Section 42301.6 may be met.

5. This equipment shall be used exclusively for the removal of non-chlorinated volatile organic compounds associated with petroleum products from extracted soil vapor. This shall be demonstrated by onsite sampling required in condition 10 below.

6. Precursor Organic Compound (POC) emissions from Source S-2 shall be abated



Plant# 12568

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DERMIT OPERATE OCT 1, 2012

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\*\*\* PERMIT CONDITIONS \*\*\*

by Abatement device A-2, Dual-mode oxidizer, during all periods of operation. Soil vapor flow rate shall not exceed 500 scfm.

7. The POC abatement efficiency of abatement device A-2 shall be maintained at a minimum of 98.5% by weight for inlet POC concentrations greater than or equal to 2000 ppmv (measured as C6). For inlet concentrations below 2000 ppmv and greater than or equal to 200 ppmv, a minimum abatement efficiency of 97% shall be maintained. For inlet concentrations below 200 ppmv, a minimum abatement efficiency of 90% shall be maintained. The minimum abatement efficiency shall be waived if outlet POC concentrations are shown to be less than 10 ppmv (measured as C6). In no event shall benzene emissions to the atmosphere exceed 0.250 pounds per day. Annual emissions of benzene shall not exceed 6.70 pounds per year.

8. While operating as a thermal oxidizer, the minimum operating temperature of A-2 shall not be less than 1400 degrees Fahrenheit. While operating as a catalytic oxidizer, the minimum operating temperature of A-2 shall not be less than 600 degrees Farenheit.

9. To determine compliance with Condition Number 8, the dual-mode oxidizer shall be equipped with continuous measuring and temperature recording instrumentation. The temperature data collected from the temperature recorder shall be maintained in a file which shall be available for District inspection for a period of at least 2 years following the date on which such data are recorded.

10. To determine compliance with Condition 7. within 24 hours after start-up of the thermal/catalytic oxidizer at any new





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location, and within 24 hours of conversion from thermal to catalytic mode at an existing location, the operator of this source shall:

Analyze the inlet gas to determine a. the vapor flow rate and concentration of POC present. b. Analyze exhaust gas to determine the flow rate, and the concentration of benzene and POC present. c. Calculate the benzene emission rate in pounds per day based on the exhaust gas analysis and the operating exhaust flow rate. The soil vapor flow rate shall be decreased, if necessary, to demonstrate compliance with Condition 7. d. Calculate the POC abatement efficiency based on the inlet and outlet gas sampling analysis. For the purpose of determining compliance with condition 7, the POC concentration shall be reported as hexane. Submit to the District's Permit e. Services Division the test results and emission calculations within one month from the testing date. Samples shall be analyzed according to modified EPA test methods 8015 and 8021 or their equivalent to determine the concentrations of POC and benzene.

11. Within 30 days from the completion of each treatment operation at a given location, the operator of this source shall provide the assigned Plant Engineer in the Permit Services Division with a summary showing the following information:

a. The dates and total number of days that the equipment was at that location and the dates, and total number of days that the equipment




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was operated at that location. A summary of the abatement b. efficiency and benzene emission rate as determined and reported in the start-up sampling report required by condition 10e above. The results of any additionally C. performed emission test, analysis, or monitoring result logged in for the day of operation they were taken. The total throughput of contaminated d. soil vapor processed by S-2 at that location (indicated in cubic feet). The total emissions of benzene at e. that location based on the sampling results required by conditions 10 above (indicated in pounds).

12. Within 30 days after the end of every calendar year, the operator of this source shall provide the assigned Plant Engineer in the Permit Services Division a year end summary showing the following information:

a. The location(s) at which the equipment was operated including the dates operated at each location.
b. The total throughput of contaminated soil vapor for the previous four quarters (indicated in cubic feet).
c. The total benzene emissions for the previous four quarters (indicated in cubic feet).

13. The operator shall maintain a file containing all measurements, records and other data that are required to be collected pursuant to the various provisions of this conditional Permit to Operate. All measurements, records and data required to be maintained by the operator shall be retained for at least two years following the date the data is recorded.





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14. Any non-compliance with these conditions shall be reported to the Compliance and Enforcement Division at the time that it is first discovered. The submittal shall detail the corrective action taken and shall include the data showing the exceedance as well as the time of occurrence.

#### COND# 22646 applies to S# 3

- 1. The operator of this source shall provide written notification to the Engineering Division at least 3 days prior to start-up of operation at any new location. The notification shall include:
  - a. Application Number (13287 & 16470) and Plant Number (12568).
  - b. Street address, including zip code, for the location where the equipment will be operated.
  - c. The name and telephone number of a contact person where the equipment will be operated.
  - d. The date of initial start-up and estimated duration of operations at that location.
  - e. The distance from the source to the outer boundary of the nearest K-12 school, or indication that the distance is greater than 1500 feet.

In the event that the start-up is delayed less than 5 days, the operator may provide telephone notice of said change to the assigned Plant Engineer in the Engineering Division. If the start-up is delayed more than 5 days, written notification must be resubmitted.

- 2. This equipment shall not remain at any single location for a period in excess of 12 consecutive months, following the date of initial operation except as allowed under Section 2-1-220.10. If this portable equipment remains at any fixed location for more than 12 months, the portable permit will automatically revert to a conventional permanent location permit and will lose its portability. [basis: Reg. 2-1-220.2]
- 3 This portable equipment, S-3, shall operate at all times in conformance with the eligibility requirements set forth in Regulation 2-1-220 for portable equipment



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- 4. This equipment is not to be operated within 1000 feet of the outer boundary of any K-12 school, unless the applicable requirements of the California Health and Safety Code Section 42301.6 have been met. This will require the submittal of an application for a revised permit to operate. These notification requirements have be satisfied for operation at 2500 Laurel Street in Napa, CA (94558). [basis: Reg. 2-1-220.4]
- 5. This equipment shall be used exclusively for the removal of non-chlorinated volatile organic compounds associated with petroleum products from extracted soil vapor. This shall be demonstrated by onsite sampling required in condition 10 below. [basis: Health Risk Management Policy]
- 6. Precursor Organic Compound (POC) emissions from S-3 shall be abated by abatement device A-3, thermal oxidizer during all periods of operation. Soil vapor flow rate shall not exceed 500 scfm. [basis: Reg. 8-47-301.1,2]
- 7. The POC abatement efficiency of abatement device A-3 shall be maintained at a minimum of 98.5% by weight for inlet POC concentrations greater than or equal to 2000 ppmv (measured as C6). For inlet concentrations below 2000 ppmv and greater than or equal to 200 ppmv, a minimum abatement efficiency of 97% shall be maintained. For inlet concentrations below 200 ppmv, a minimum abatement efficiency shall be maintained. The minimum abatement efficiency shall be waived if outlet POC concentrations are shown to be less than 10 ppmv (measured as C6). In no event shall benzene emissions to the atmosphere exceed 0.250 pounds per day. Annual emissions of benzene shall not exceed 6.40 pounds per year. [basis: BACT; Health Risk Management Policy]
- At no time shall the minimum operating temperature of A-3 be less than 1400 degrees Fahrenheit.
- 9. To determine compliance with Condition Number 8, the thermal oxidizer shall be equipped with continuous measuring and temperature recording instrumentation. The temperature data collected from the temperature recorder shall be maintained in a file which shall be available





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for District inspection for a period of at least 2 years following the date on which such data are recorded.

- 10. To determine compliance with Condition 7, within 24 hours after start-up of the thermal oxidizer at any new location, the operator of this source shall:
  - a. Analyze the inlet gas stream to determine the vapor flow rate and concentration of POC present.
  - b. Analyze exhaust gas to determine the flow rate, and the concentration of benzene and POC present.
  - c. Calculate the benzene emission rate in pounds per day based on the exhaust gas analysis and the operating exhaust flow rate. The soil vapor flow rate shall be decreased, if necessary, to demonstrate compliance with Condition 7.
  - d. Calculate the POC abatement efficiency based on the inlet and exhaust gas sampling analysis. For the purpose of determining compliance with condition 7, the POC concentration shall be reported as hexane.
  - e. Submit to the District's Engineering Division the test results and emission calculations within one month from the testing date. Samples shall be analyzed according to modified EPA test methods 8015 and 8021 or their equivalent to determine the concentrations of POC and benzene.
- 11. Within 30 days from the completion of each treatment operation at a given location, the operator of this source shall provide the assigned Plant Engineer in the Engineering Division with a summary showing the following information:
  - a. The dates and total number of days that the equipment was at that location and the dates, and total number of days that the equipment was operated at that location.
  - b. A summary of the abatement efficiency and benzene emission rate as determined and reported in the start-up sampling report required by condition 10e above.
  - c. The results of any additionally performed emission test, analysis, or monitoring result logged in for the day of operation they were taken.
  - d. The total throughput of contaminated soil vapor processed by S-3 at that location (indicated in





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cubic feet).

- e. The total emissions of benzene at that location based on the sampling results required by conditions 10 above. [basis: Reg. 1-523]
- 12. Within 30 days after the end of every calendar year, the operator of this source shall provide the assigned Plant Engineer in the Engineering Division a year-end summary showing the following information:
  - a. The location(s) at which the equipment was operated including the dates operated at each location.
  - b. The total throughput of contaminated soil vapor for the previous four quarters (indicated in cubic feet).
  - c. The total benzene emissions for the previous four quarters (indicated in pounds). [basis Reg. 1-523]
- 13. The operator shall maintain a file containing all measurements, records and other data that are required to be collected pursuant to the various provisions of this conditional Permit to Operate. All measurements, records and data required to be maintained by the operator shall be retained for at least two years following the date the data is recorded. [basis Reg. 1-523]
- 14. Any non-compliance with these conditions shall be reported to the Compliance and Enforcement Division at the time that it is first discovered. The submittal shall detail the corrective action taken and shall include the data showing the exceedance as well as the time of occurrence.

END OF CONDITIONS

Bay Aı Manage	rea Air Quality ement District	* *	SOURCE	EMISSIONS	**		PI	LANT #1. Sep 7,	2568 2011
S# 	Source Description				An PART	nual Av ORG	Verage NOx	lbs/da; SO2	y CO
1 2 3	Portable Vapor Extraction Portable Vapor Extraction Portable Soil Vapor Extra	on s on s cact	System System tion Sys	stem	-	2.04 .41 1.08	н С		-
	TOTALS					3.54			

\*\* PLANT TOTALS FOR EACH EMITTED TOXIC POLLUTANT \*\*

Pollutant	Name	Emissions	lbs/day
	- <u>-</u> -		

Benzene

08

### APPENDIX C

HIGH VACUUM DUAL PHASE EXTRACTION REPORT, JANUARY 19, 2012

# CALCLEAN INC.

#### "A Partner in Protecting California's Waters"

January 19, 2012

AEI Consultants 2500 Camino Diablo, Suite 100 Walnut Creek, CA

ATTN: MR. PETER MCINTYRE

SITE: GOOD CHEVROLET 1630 PARK STREET ALAMEDA, CA

**RE:** HIGH VACUUM DUAL PHASE EXTRACTION REPORT

Dear Mr. McIntyre:

CalClean Inc. is submitting this High Vacuum Dual Phase Extraction Report for the above referenced site. This report includes all activities performed during the dates of December 5, 2011 to January 9, 2012.

From December 5, 2011 to January 9, 2012, CalClean performed a 35-day high vacuum dual phase extraction (HVDPE) event on several onsite extraction wells using a low-noise, truck-mounted 450-CFM high-vacuum liquid ring blower along with a Bay Area Air Quality Management District (BAAQMD) various locations permitted propane-fired thermal oxidizer (Plant No. 12568). This technology allows hydrocarbons to be simultaneously removed from the vadose zone, capillary fringe, and saturated soil zone. A high vacuum was applied for vapor extraction and drawdown of the groundwater table around the extraction wells, while vacuum and vapor flow rates were modified to optimize recovery of vapor, free-product (if any) and dissolved-phase hydrocarbons.

During the event, the high vacuum dual phase extraction (HVDPE) system was connected to wells DPE-1, DPE-2, DPE-3, and MW-2 individually or in combination. HVDPE activities were conducted for a total of 35 days during the HVDPE event.

Vapor samples were collected in Tedlar bags during the HVDPE event from the extraction wells. Total Inlet well vapor samples were also collected during the event. The laboratory results, listed in Table 1 and laboratory reports included in Attachment 1, indicate the following:

• The starting Total Petroleum Hydrocarbons as Gasoline (TPH-G) vapor concentrations for wells DPE-1, DPE-2, and DPE-3 were 5,600 ppmv, 4,000 ppmv, and 7,100 ppmv, respectively. The ending TPH-G vapor concentrations were 1,600 ppmv, 1,700 ppmv, and 3,300 ppmv, respectively. The TPH-G vapor concentration for well MW-2 was 1,000 ppmv. The starting and ending Total Inlet TPH-G vapor concentrations were 6,000 ppmv and 1,500 ppmv, respectively.

- The starting Benzene vapor concentrations for wells DPE-1, DPE-2, and DPE-3 were 130 ppmv, 110 ppmv, and 130 ppmv, respectively. The ending Benzene vapor concentrations were 24 ppmv, 28 ppmv, and 62 ppmv, respectively. The Benzene vapor concentration for well MW-2 was 9 ppmv. The starting and ending Total Inlet Benzene vapor concentrations were 110 ppmv and 22 ppmv, respectively.
- The starting Methyl tert-Butyl Ether (MtBE) vapor concentrations for wells DPE-1, DPE-2, and DPE-3 were 280 ppmv, 160 ppmv, and 550 ppmv, respectively. The ending MtBE vapor concentrations were 18 ppmv, 22 ppmv, and 58 ppmv, respectively. The MtBE vapor concentration for well MW-2 was 13 ppmv. The starting and ending Total Inlet MtBE vapor concentrations were 170 ppmv and 18 ppmv, respectively.

The total equivalent amount of hydrocarbons recovered through vapor extraction during the 35-day HVDPE event was 6,422.16 pounds (based on laboratory data), and 4,274.15 pounds (based on the Horiba field organic vapor analyzer data) with an average of 5,348.16 pounds. The cumulative tabulation of recovered hydrocarbons (based on laboratory data) is provided in Table 2. The cumulative tabulation of recovered hydrocarbons (based on the field organic vapor analyzer data) is provided in Table 3.

The total volume of hydrocarbon-affected groundwater recovered from the extraction wells during the HVDPE event was approximately 43,530 gallons. The extracted groundwater was treated through two 500-pound granular activated carbon vessels in series and then discharged periodically to the onsite sewer system in accordance with Special Discharge Permit #36810870 from East Bay Municipal Utility District.

The following attachments are included to document the HVDPE event at the site:

- Table 1
   Results of Laboratory Analysis of Influent Vapor Samples
- Table 2Hydrocarbon Mass Removal (using Lab Data)
- Figure 1 Total Inlet HC Concentrations versus Time (35-Days, Using Lab Data)
- Figure 2 Cumulative HC Recovered over 35 Days (using Lab Data)
- Table 3Hydrocarbon Mass Removal (using Horiba Data)
- Figure 3 Total Inlet HC Concentrations versus Time (35-Days, Using Horiba Data)
- Figure 4 Cumulative HC Recovered over 35 Days (using Horiba and Lab Data)
- Attachment 1 Laboratory Reports
- Attachment 2 High Vacuum Dual Phase Extraction Field Data Sheets

High Vacuum Dual Phase Extraction Report Good Chevrolet, Alameda, CA January 19, 2012

If you have any questions regarding this report, please contact us at (714) 734-9137 or via cell phone at (714) 936-2706.

Sincerely,

m.

CALCLEAN INC.

Noel Shenoi Principal Engineer

Attachments

### Table 1 RESULTS OF LABORATORY ANALYSIS OF VAPOR SAMPLES Good Chevrolet Alameda, CA

Sample ID	Date/Time Sampled	TPH-g (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Total Xylenes (ppmv)	MtBE (ppmv)
DPE-1	12/5/11 1015	5,600	130	56	2.6	14	280
DPE-1	12/6/11 1405	6,900	150	230	26	77	120
DPE-1	12/6/11 2000	7,500	130	250	32	98	84
DPE-1	12/7/11 0400	6,500	120	220	24	72	79
DPE-1	12/30/11 0400	3,300	27	38	12	36	11
DPE-1	1/9/12 1700	1,600	24	120	20	80	18
DPE-2	12/5/11 1030	4,000	110	80	2.4	15	160
DPE-2	12/8/11 0930	2,100	25	64	8.7	27	17
DPE-2	12/8/11 1130	1,800	21	68	5.7	20	41
DPE-2	12/8/11 1600	1,900	22	75	6.3	21	43
DPE-2	12/9/11 0400	2,500	25	95	7.8	26	60
DPE-2	12/30/11 0405	3,100	50	55	15	43	55
DPE-2	1/9/12 1655	1,700	28	130	19	77	22

### Table 1 RESULTS OF LABORATORY ANALYSIS OF VAPOR SAMPLES Good Chevrolet Alameda, CA

Sample ID	Date/Time Sampled	TPH-g (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Total Xylenes (ppmv)	MtBE (ppmv)
DPE-3	12/5/11 1040	7,100	130	120	5.5	28	550
DPE-3	12/7/11 0905	10,000	180	310	35	100	93
DPE-3	12/7/11 1100	15,000	180	320	49	110	330
DPE-3	12/7/11 1600	9,200	120	330	54	140	210
DPE-3	12/8/11 0400	10,000	120	260	51	130	240
DPE-3	12/30/11 0410	3,300	62	64	20	55	58
MW-2	1/9/12 1645	1,000	9	74	15	61	13

### Table 1 RESULTS OF LABORATORY ANALYSIS OF VAPOR SAMPLES Good Chevrolet Alameda, CA

Sample ID	Date/Time Sampled	TPH-g (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Total Xylenes (ppmv)	MtBE (ppmv)		
TOTAL INLET	12/5/11 1050	6,000	110	110	5.3	26	170		
TOTAL INLET	12/9/11 0900	7,400	44	140	16	56	73		
TOTAL INLET	12/10/11 0800	6,100	53	140	17	59	95		
TOTAL INLET	12/11/11 0800	6,000	56	140	18	61	33		
TOTAL INLET	12/12/11 0800	7,400	61	160	18	65	120		
TOTAL INLET	12/22/11 1300	3,800	48	62	27	87	56		
TOTAL INLET	12/30/11 0355	4,300	39	36	21	66	12		
TOTAL INLET	1/6/12 0800	1,300	17	93	15	59	14		
TOTAL INLET	1/9/12 1645	1,500	22	110	19	76	18		
Notes:     ppmv     = parts per million by volume     TPH-G/BTEX analyzed by EPA 8015B/8021B       TPH - g     = total petroleum hydrocarbons - gasoline									

### Table 2 HYDROCARBON MASS REMOVAL (Using Lab Data) Good Chevrolet, Alameda, CA

		SYSTEM P	ARAMETERS			
TIME	Average System Vacuum (in of Hg)	Average Total System Inlet Flow (scfm)	Influent Concentrations Post-dilution* (ppmv)	Hydr (lbs)	ocarbon Recov (gal)	/ery (Cumul. lbs)
12/5/2011 10:50	22	97	6,000	0.00	0.00	0.00
12/9/2011 9:00	21	124	7,400	949.19	151.93	949.19
12/10/2011 8:00	21	123	6,100	261.05	41.78	1,210.23
12/11/2011 8:00	21	126	6,000	246.12	39.40	1,456.36
12/12/2011 8:00	21	124	7,400	273.66	43.80	1,730.02
12/22/2011 13:00	18	89	3,800	1,989.40	318.43	3,719.41
12/30/2011 3:55	15	177	4,300	1,341.46	214.72	5,060.87
1/6/2012 8:00	18	162	1,300	1,111.95	177.98	6,172.82
1/9/2012 16:45	18	162	1,500	249.35	39.91	6,422.16
	TOTAL HC I	RECOVERED* - LA	AB DATA	6,422.16	1,027.96	
	TOTAL HC F	RECOVERED** - F	ELD ANALYZER DATA	4,274.15	684.14	
	Average HC R	ecovered*** (Fiel	d Analyzer/Lab Data)	5,348.16	856.05	

### **TOTAL GROUNDWATER RECOVERED**

gal = gallons

43,530

in of Hg = inches of mercury

scfm = standard cubic feet per minute

ppmv = parts per million by volume lbs = pounds

\* Concentration data based on laboratory data.

\*\* Based on Horiba field analyzer data.

\*\*\* Average HC Recovered using Laboratory and Horiba data





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								SYSTEM	1 PARAMETERS				
TIME	Extraction Well # <b>DP-1</b> (Stinger Depth)	E⊻traction Well <b># DP-2</b> (Stinger Depth)	Extraction Well <b># DP-3</b> (Stinger Depth)	Extraction Well # <b>MW-2</b> (Stinger Depth)	Extraction Well # (Stinger Depth)	Extraction Well # (Stinger Depth)	System Vacuum (in of Hg)	Total System Inlet Flow (scfm)**	Influent Concentrations (ppmv)*	Effluent Concentrations (ppmv) *	Hydro (us: (lbs)	ocarbon Reco ng Horiba Da	ita)
12/5/2011 10:15							24	35	11 560	6	0.00	0.00	0.00
12/5/2011 10:30		During the	event vario	is wolls word	extracted		24	37	6,740	3	1 12	0.00	1 12
12/5/2011 10:40		from	as directed I	by the consul	tant.		24	36	8 710		0.64	0.10	1.76
12/5/2011 10:50						·	22	97	9,510		1 37	0.10	3.14
12/5/2011 12:00							22	98	9.230		14 51	2.32	17.65
12/6/2011 11:40							23	31	5.610		154.21	24.68	171.86
12/6/2011 12:10							25	34	5.040		1 18	0.19	173.04
12/6/2011 12:30							25	33	5.830		0.83	0.13	173.86
12/6/2011 13:00							25	30	6.390		1.31	0.21	175.17
12/6/2011 13:30							25	31	5,920		1.28	0.20	176.45
12/6/2011 14:00							25	32	7,790		1.47	0.24	177.92
12/6/2011 14:30							25	34	7,640		1.73	0.28	179.65
12/6/2011 15:00							25	33	6,930		1.66	0.27	181.32
12/6/2011 15:30							25	31	6,910		1.51	0.24	182.82
12/6/2011 16:00							25	31	6,730		1.44	0.23	184.26
12/6/2011 20:00							25	38	6,810		12.72	2.04	196.98
12/7/2011 0:01							25	32	6,470		12.71	2.03	209.69
12/7/2011 4:00							25	36	6,230		11.71	1.87	221.40
12/7/2011 8:00							25	37	6,410		12,56	2.01	233.96
12/7/2011 9:00							25	38	8,130		3.71	0.59	237.68
12/7/2011 9:30							25	34	9,930		2.21	0.35	239.89
12/7/2011 10:00							25	31	10,670		2.28	0.36	242.17
12/7/2011 10:30							25	37	10,390		2.44	0.39	244.60
12/7/2011 11:00							25	33	11,540		2.61	0.42	247.22
12/7/2011 11:30							25	32	12,810		2.69	0.43	249.91
12/7/2011 12:00							25	34	11,370		2.72	0.43	252.63
12/7/2011 12:30							25	31	11,920		2.58	0.41	255.20
12/7/2011 13:00							25	32	10,730		2.43	0.39	257.63
12/7/2011 14:00							25	31	10,510		4.55	0.73	262.19
12/7/2011 15:00							25	32	10,930		4.60	0.74	266.78

								SYSTEM	PARAMETERS				
TIME	Extraction Well <b># DP-1</b> (Stinger Depth)	Extraction Well # DP-2 (Stinger Depth)	Extraction Well # DP-3 (Stinger Depth)	Extraction Well # <b>MW-2</b> (Stinger Depth)	Extraction Well # (Stinger Depth)	Extraction Well # (Stinger Depth)	System Vacuum (in of Hq)	Total System Inlet Flow (scfm)**	Influent Concentrations (pomv)*	Effluent Concentrations	Hydro (usi	ocarbon Reco ng Horiba Da	overy its)
12/7/2011 16:00							25	34	10.870		4.90	0.78	271.68
12/7/2011 20:00							25	31	10,410		18.83	3.01	290.51
12/8/2011 0:01							25	31	10,110		17 39	2 78	307.91
12/8/2011 4:00							25	33	9.630		17.13	2.70	325.04
12/8/2011 8:00							25	30	9,240		16.19	2.59	341 22
12/8/2011 8:30							25	31	6,370		1.62	0.26	342.84
<u>12/8/2011 9:00</u>				_			25	30	6,640		1.35	0.22	344.19
12/8/2011 9:30							25	30	6,810		1.37	0.22	345.57
12/8/2011 10:00							25	31	7,340		1.47	0.24	347.04
12/8/2011 10:30							25	32	7,260		1.57	0.25	348.60
12/8/2011 11:00							24	39	7,490		1.78	0.29	350.38
12/8/2011 11:30							24	38	8,230		2.06	0.33	352.44
12/8/2011 12:00		L					24	36	8,170		2.07	0.33	354.51
12/8/2011 12:30							24	37	7,940		2.00	0.32	356.51
12/8/2011 13:00							24	38	8,340		2.08	0.33	<u>358.5</u> 9
12/8/2011 14:00							24	37	8,170		4.21	0.67	362.80
12/8/2011 15:00							23	41	7,940		4.28	0.68	367.08
12/8/2011 16:00							23	44	7,530		4.48	0.72	371.56
12/8/2011 20:00							23	43	6,720		16.88	2.70	388.43
12/9/2011 0:01							23	42	5,710		14.44	2.31	402.88
12/9/2011 4:00							23	43	4,930		12.26	1.96	415.14
12/9/2011 8:00							23	46	2,670		9.21	1.47	424.35
12/9/2011 9:00							21	124	5,380		4.66	0.75	429.01
12/9/2011 10:00							21	121	6,140		9.61	1.54	438.62
12/9/2011 11:00			<u> </u>		<u> </u>	ļ	21	123	6,970		10.89	1.74	449.50
12/9/2011 12:00							21	128	7,830		12.64	2.02	462.15
12/9/2011 16:00							21	124	8,270		55.24	8.84	517.39
12/9/2011 20:00							21	129	8,140		56.53	9.05	573.91
12/10/2011 0:01							21	127	8,610		58.62	9.38	632.54
12/10/2011 8:00							21	123	8,530		116.44	18.64	748.97

								SYSTEM	PARAMETERS				
TIME	Extraction Well <b># DP-1</b> (Stinger Depth)	Extraction Well # <b>DP-2</b> (Stinger Depth)	Extraction Well # <b>DP-3</b> (Stinger Depth)	Extraction Well <b># MW-2</b> (Stinger Depth)	Extraction Well # (Stinger Depth)	Extraction Well # (Stinger Depth)	System Vacuum (in of Ha)	Total System Inlet Flow (scfm)**	Influent Concentrations (pomy)*	Effluent Concentrations	Hydro (usi	ocarbon Reco ng Horiba Da	)very ita)
12/10/2011 12:00							21	125	8 970		59.00	0.46	
12/10/2011 16:00					· · · ·		21	124	8 410		58.92	0./3	966.09
12/10/2011 20:00							21	128	8,160		56.85	9.10	923.83
12/11/2011 0:01							21	121	7.920		54.74	8 76	978 58
12/11/2011 8:00							21	126	8,230		108.40	17.35	1.086.97
12/11/2011 12:00							21	124	8,040		55.38	8.86	1,142,35
12/11/2011 16:00							21	125	7,980		54.31	8.69	1,196.66
12/11/2011 20:00							21	123	7,530		52.37	8.38	1,249.03
12/12/2011 0:01							21	128	7,410		51.27	8.21	1,300.30
12/12/2011 8:00							21	124	7,230		100.25	16.05	1,400.55
12/12/2011 10:30							23	93	5,930		24.30	3.89	1,424.85
12/12/2011 10:45							23	97	<u>6,</u> 170		1.96	0.31	1,426.80
12/12/2011 12:00						· · ·	23	95	6,020		9.96	1.59	1,436.76
12/12/2011 16:00							21	128	5,970		36.40	5.83	1,473.17
12/12/2011 20:00							21	129	6,240		42.72	6.84	1,515.89
12/13/2011 0:01							20	132	6,510		45.50	7.28	1,561.38
12/13/2011 8:00							19	147	6,830		101.14	16.19	1,662.52
12/13/2011 12:00							19	143	6,670		53.30	8.53	1,715.82
12/13/2011 16:00							19	142	6,510		51.14	8.19	1,766.96
12/13/2011 20:00							19	144	6,380		50.19	8.03	1,817.16
12/14/2011 0:01							19	148	6,110		49.86	7.98	1,867.02
12/14/2011 8:00							19	145	6,920		103.74	16.61	1,970.76
12/14/2011 12:00				· · · · · · · · · · · · · · · · · · ·			19	147	5,730		50.29	8.05	2,021.05
12/14/2011 16:00							19	142	5,570		44.46	7.12	2,065.51
12/14/2011 20:00							19	148	5,140		42.29	6.77	2,107.80
12/15/2011 0:01							18	151	4,930		41.16	6.59	2,148.97
12/15/2011 8:00							<u>1</u> 8	153	4,410		77.15	12.35	2,226.12
12/15/2011 12:00							18	154	4,230		36.11	5.78	2,262.23
12/15/2011 16:00							18	152	4,370		35.83	5.73	2,298.06
12/15/2011 20:00							21	136	4,920		36.43	5.83	2,334.49

								SYSTEM	I PARAMETERS				
TIME	Extraction Well # <b>DP-1</b> (Stinger Depth)	Extraction Well # <b>DP-2</b> (Stinger Depth)	Extraction Well <b># DP-3</b> (Stinger Depth)	Extraction Well <b># MW-2</b> (Stinger Depth)	Extraction Well # (Stinger Depth)	Extraction Well # (Stinger Depth)	System Vacuum (in ef Hg)	Total System Inlet Flow (scfm)**	Influent Concentrations (ppnay)*	Effluent Concentrations (ppmy) *	Hydro (usi	ocarbon Reco ng Horiba Da	ivery ita)
12/16/2011 0:01							19	137	4 930		36.76	5.88	2 271 25
12/16/2011 8:00							20	138	4 890		73 38	11 75	2,371.23
12/16/2011 12:00							20	136	4 840		36.30	5.81	2,444.04
12/16/2011 16:00							20	139	4,840		36.24	5.80	2 517 18
12/16/2011 20:00							19	137	4,710		35.89	5.74	2,553.06
12/17/2011 0:01							18	148	4,530		36.00	5.76	2.589.07
12/17/2011 8:00							18	151	4,250		71.34	11.42	2,660.40
12/17/2011 12:00							18	153	4,290		35.35	5.66	2,695.75
12/17/2011 16:00							18	151	4,310		35.60	5.70	2,731.34
12/17/2011 20:00							18	153	4,230		35.35	5.66	2,766.69
12/18/2011 0:01							18	151	4,190		35.00	5.60	2,801.69
12/18/2011 8:00							18	154	4,120		68.87	11.02	2,870.56
12/18/2011 12:00							18	151	4,160		34.38	5.50	2,904.94
12/18/2011 16:00							18	154	4,070		34.18	5.47	2,939.12
12/18/2011 20:00							18	153	4,010		33.77	5.41	2,972.89
12/19/2011 0:01							18	154	3,930		33.33	5.33	3,006.22
12/19/2011 8:00							18	153	3,870		65.07	10.42	3,071.28
12/19/2011 12:00							18	156	3,750		32.06	5.13	3,103.34
12/19/2011 16:00							18	153	3,630		31.05	4.97	3,134.39
12/19/2011 16:15							14	190	1,820		1.59	0.25	3,135.98
12/19/2011 16:30							14	<u>193</u>	1,808		1.18	0.19	3,137.16
12/19/2011 16:35							14	197	1,820		0.40	0.06	3,137.56
12/19/2011 17:00							14	193	1,770		1.99	0.32	3,139.55
12/19/2011 17:15							14	190	<u>1,760</u>		1.15	0.18	3,140.70
12/19/2011 17:30							14	194	1,710		1.13	0.18	3,141.83
12/19/2011 17:45							14	196	1,730		1.14	0.18	3,142.98
12/19/2011 18:00							14	196	1,680		1.14	0.18	3,144.11
12/19/2011 18:15							14	191	1,710		1.12	0.18	3,145.23
12/19/2011 18:30							14	193	1,740		1.13	0.18	3,146.36
12/19/2011 18:45							14	197	1,780		1.17	0.19	3,147.52

								SYSTEM	I PARAMETERS				
TIME	Extraction Well # <b>DP-1</b> (Stinger Depth)	Extraction Well # <b>DP-2</b> (Stinger Depth)	Extraction Well # <b>DP-3</b> (Stinger Depth)	Extraction Well <b># MW-2</b> (Stinger Depth)	Extraction Well # (Stinger Depth)	Extraction Well # (Stinger Depth)	System Vacuum (in of Hg)	Total System Inlet Flow (scfm)**	Influent Concentrations (ppmv)*	Effluent Concentrations (ppmv)	Hydro (usi (ibs)	ocarbon Reco ng Horiba Da (gal)	ivery ta)
12/19/2011 19:00						-	14	194	1.830		1.20	0.19	3 148 73
12/19/2011 19:15							14	197	1,860		1.23	0.20	3 149 95
12/19/2011 19:30							14	193	1.910		1.25	0.20	3 151 20
12/19/2011 19:45							14	197	1.960		1.28	0.21	3,152,49
12/19/2011 20:00							14	196	1,970		1.31	0.21	3.153.80
12/19/2011 21:00							14	194	1,940		5.19	0.83	3,158.99
12/19/2011 22:00							14	196	1,870		5.06	0.81	3,164.05
12/19/2011 23:00							14	196	1,890		5.02	0.80	3,169.07
12/20/2011 0:00							14	197	1,860		5.02	0.80	3,174.08
12/20/2011 0:01							14	196	1,820		0.08	0.01	3,174.17
12/20/2011 8:00							14	197	1,830		38.98	6.24	3,213.15
12/20/2011 12:00							14	195	1,780		19.27	3.08	3,232.41
12/20/2011 16:00							14	197	1,710		18.63	2.98	3,251.04
12/20/2011 20:00		L					16	153	2,470		19.92	3.19	3,270.96
12/21/2011 0:01							16	157	2,140		19.54	3.13	3,290.50
12/21/2011 8:00							15	158	1,780		33.55	5.37	3,324.05
12/21/2011 9:30							15	142	1,717		5.36	0.86	3,329.41
12/21/2011 9:45							15	147	1,706		0.84	0.13	3,330.25
12/21/2011 10:00							15	147	1,672		0.85	0.14	3,331.09
12/21/2011 10:15							15	147	1,682		0.84	0.13	3,331.93
12/21/2011 10:30							15	149	1,630		0.83	0.13	3,332.77
12/21/2011 10:45							15	149	1,608		0.82	0.13	3,333.59
12/21/2011 11:00							15	147	1,637		0.82	0.13	3,334.40
12/21/2011 11:15							15	149	1,638		0.82	0.13	3,335.23
12/21/2011 11:30							15	147	1,593		0.81	0.13	3,336.04
12/21/2011 11:45							15	149	1,550		0.79	0.13	3,336.83
12/21/2011 12:00							15	147	1,560		0.78	0.13	3,337.62
12/21/2011 13:00							15	149	1,610	-	3.19	0.51	3,340.81
12/21/2011 14:00							15	149	1,730		3.39	0.54	3,344.20
12/21/2011 15:00							15	148	1,670		3.44	0.55	3,347.64

### Table 3 HYDROCARBON MASS REMOVAL (Using Field Analyzer Data) Good Chevrolet, Alameda, CA

								SYSTEM	PARAMETERS				
TIME	Extraction Well # <b>DP-1</b> (Stinger Depth)	Extraction Well # <b>DP-2</b> (Stinger Depth)	Extraction Well # <b>DP-3</b> (Stinger Depih)	Extraction Well # <b>MW-2</b> (Stinger Depth)	Extraction Well # (Stinger Depth)	Extraction Well # (Stinger Depth)	System Vacuum (in of Hg)	Total System Inlet Flow (scfm)**	Influent Concentrations (ppmv)*	Effluent Concentrations (ppmv)*	Hydr: (usi (lbs)	ocarbon Reco ng Honba Da (gal)	ivery ta)
12/21/2011 16:00							15	149	1.640		3 35	0.54	3 350 98
12/21/2011 17:00							15	151	1.650		3.36	0.54	3 354 34
12/21/2011 18:00							15	150	1.620		3.35	0.54	3.357.69
12/21/2011 20:00							15	149	1,630		6.62	1.06	3.364.31
12/21/2011 22:00							15	151	1,610		6.62	1.06	3,370.92
12/22/2011 0:00							15	149	1,590		6.54	1.05	3.377.46
12/22/2011 8:00							15	151	1,470		25.00	4.00	3,402.46
12/22/2011 12:00							15	151	1,410		11.84	1.90	3,414.30
12/22/2011 13:00							18	89	1,380		2.28	0.36	3,416.58
12/22/2011 13:30							18	81	1,420		0.81	0.13	3,417.39
12/22/2011 14:00							18	86	1,470		0.82	0.13	3,418.21
12/22/2011 14:30							18	85	1,490		0.86	0.14	3,419.07
12/22/2011 15:00							18	84	1,530		0.87	0.14	3,419.94
12/22/2011 15:30							18	87	1,570		0.90	0.14	3,420.84
12/22/2011 16:00							18	83	1,620		0.92	0.15	3,421.76
12/22/2011 16:30							18	85	1,610		0.92	0.15	3,422.69
12/22/2011 17:00							18	81	1,610		0.91	0.15	3,423.60
12/22/2011 17:30							18	87	1,593		0.92	0.15	3,424.51
12/22/2011 18:00							18	82	1,542		0.90	0.14	3,425.41
12/22/2011 18:30					[		18	86	1,579		0.89	0.14	3,426.31
12/22/2011 19:00							18	83	1,528		0.89	0.14	3,427.20
12/22/2011 19:30							18	81	1,552		0.86	0.14	3,428.06
12/22/2011 20:00							18	87	1,513		0.88	0.14	3,428.94
12/23/2011 0:00							18	86	1,437		6.95	1.11	3,435.89
12/23/2011 4:00							16	103	1,371		7.23	1.16	3,443.11
12/23/2011 8:00							14	121	1,293		8.12	1.30	3,451.24
12/23/2011 12:00					ļ		14	124	1,281		8.59	1.37	3,459.82
12/23/2011 13:00							15	173	1,497		2.81	0.45	3,462.63
12/23/2011 16:00	· ·						15	174	1,578		10.90	1.74	3,473.53
12/23/2011 20:00							15	178	1,632		15.38	2.46	3,488.91

### Table 3 HYDROCARBON MASS REMOVAL (Using Field Analyzer Data) Good Chevrolet, Alameda, CA

							SYSTEM PARAMETERS						
TIME	Extraction Well # <b>DP-1</b> (Stinger Depth)	Extraction Well # <b>DP-2</b> (Stinger Depth)	Extraction Well # DP-3 (Stinger Depth)	Extraction Well # <b>MW-2</b> (Stinger Depth)	Extraction Well # (Stinger Depth)	Extraction Well # (Stinger Depth)	System Vacuum (in oî Ha)	Total System Inlet Flow (scfm)**	Influent Concentrations (ppmv)*	Effluent Concentrations	Hydro (usi	ocarbon Reco ng Horiba Da	overy ta)
12/24/2011 0:00							15	177	1 581	()))))))))	15.53	2 49	3 504 44
12/24/2011 4:00							15	175	1,459		14.57	2.33	3 519 01
12/24/2011 8:00	,						15	171	1.398		13.46	2 15	3 532 47
12/24/2011 12:00							15	176	1,378		13.11	2.10	3.545.58
12/24/2011 16:00							15	173	1,306		12.75	2.04	3,558,33
12/24/2011 20:00							15	171	1,284		12.13	1.94	3,570.47
12/25/2011 0:00							15	178	1,251		12.05	1.93	3.582.51
12/25/2011 4:00							15	175	1,274		12.14	1.94	3,594.65
12/25/2011 8:00							15	174	1,226		11.88	1.90	3,606.53
12/25/2011 12:00							15	173	1,193		11.43	1.83	3,617.95
12/25/2011 20:00							15	177	1,068		21.55	3.45	3,639.50
12/26/2011 0:01							15	171	1,057		10.11	1.62	3,649.61
12/26/2011 4:00							15	175	1,008		9.69	1.55	3,659.30
12/26/2011 8:00							15	173	1,031		9.66	1.55	3,668.96
12/26/2011 12:00							15	174	1,053		9.85	1.58	3,678.81
12/26/2011 16:00							15	177	1,096		10.27	1.64	3,689.08
12/26/2011 20:00							15	176	1,041		10.27	1.64	3,699.35
<u>12/27/2011 0:01</u>							15	178	1,007		9.91	1.59	3,709.26
12/27/2011 4:00				-			15	176	953		9.41	1.51	3,718.67
12/27/2011 8:00							15	171	978		9.12	1.46	3,727.79
12/27/2011 10:00							20	37	427		1.99	0.32	3,729.78
12/27/2011 10:30							25	24	715		0.12	0.02	3,729.90
12/27/2011 11:00							25	21	793		0.12	0.02	3,730.01
<u>12/27/2011 11:05</u>							24	2.8	847		0.02	0.00	3,730.03
12/27/2011 11:35			L				24	29	949		0.17	0.03	3,730.21
12/27/2011 12:05	<u>.</u>						24	28	973		0.19	0.03	3,730.40
12/27/2011 12:10							23	31	942		0.03	0.01	3,730.43
12/27/2011 12:40					 		23	33	1,013		0.21	0.03	3,730.64
12/27/2011 13:10							23	32	1,028		0.23	0.04	3,730.87
12/27/2011 13:15							22	39	1,054		0.04	0.01	3,730.91

### Table 3 HYDROCARBON MASS REMOVAL (Using Field Analyzer Data) Good Chevrolet, Alameda, CA

							SYSTEM PARAMETERS						
TIME	Extraction Well # <b>DP-1</b> (Stinger Depth)	Extraction Well # <b>DP-2</b> (Stinger Depth)	Extraction Well # DP-3 (Stinger Depth)	Extraction Well # <b>MW-2</b> (Stinger Depth)	Extraction Well # (Stinger Depth)	Extraction Well # (Stinger	System Vacuum (in of Ha)	Total System Inlet Flow	Influent Concentrations	Effluent Concentrations	Hydro (usi	ocarbon Reco ng Horiba Da	ivery ta)
12/27/2011 13:45					o oputy		22	20	(55117)	(ppmv)	(103)	(gai)	
12/27/2011 14:15							22	20	1,059		0.20	0.04	3,731.19
12/27/2011 14:20							25	22	242		0.20	0.04	3,731.47
12/27/2011 14:50							24	26	317		0.02	0.00	2 721 54
12/27/2011 15:20							24	28	343		0.06	0.01	3 731 60
12/27/2011 15:25							23	30	418		0.00	0.01	3 731 61
12/27/2011 15:55							23	32	447		0.09	0.00	3 731 70
12/27/2011 16:25							22	35	496		0.11	0.02	3.731.81
12/27/2011 16:30							21	39	581		0.02	0.00	3.731.83
12/27/2011 17:00							21	40	578		0.16	0.02	3,731.99
12/27/2011 17:30							21	43	721		0.18	0.03	3,732.17
12/27/2011 17:45							17	163	852		0.28	0.04	3,732.45
12/27/2011 20:00							17	162	871		4.29	0.69	3,736.74
12/28/2011 0:01							16	168	864		7.83	1.25	3,744.56
12/28/2011 4:00							. 16	170	921		8.18	1.31	3,752.74
12/28/2011 8:00							16	171	907		8.49	1.36	3,761.23
12/28/2011 12:00							15	174	923		8.60	1.38	3,769.83
12/28/2011 16:00							15	177	974		9.07	1.45	3,778.89
12/28/2011 20:00							15	178	951		9.30	1.49	3,788.20
12/29/2011 0:01							15	178	928		9.15	1.46	3,797.34
12/29/2011 4:00							15	176	897		8.76	1.40	3,806.10
12/29/2011 8:00							15	173	871		8.40	1.34	3,814.50
12/29/2011 12:00							15	171	855		8.08	1.29	3,822.59
12/29/2011 16:00					<u> </u>		15	172	833		7.88	1.26	3,830.47
12/29/2011 20:00							15	174	818		7.78	1.24	3,838.25
12/30/2011 0:01							15	171	841		7.83	1.25	3,846.07
12/30/2011 4:00							15	177	876		8.10	1.30	3,854.17
12/30/2011 12:15							25	33	289		0.00	0.00	3,854.17
12/30/2011 12:30							25	25	241		0.03	0.00	3,854.20
12/30/2011 13:00							25	37	376		0.07	0.01	3,854.26

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							SYSTEM PARAMETERS						
TIME	Extraction Well <b># DP-1</b> (Stinger Depth)	Extraction Well # <b>DP-2</b> (Stinger Depth)	Extraction Well <b># DP-3</b> (Stinger Depth)	Extraction Well # <b>MW-2</b> (Sänger Depth)	Extraction Well # (Stinger Depth)	Extraction Well # (Stinger Depth)	System Vacuum (in of Ha)	Total System Inlet Flow (scfm)*°	Influent Concentrations (ppmv)*	Effluent Concentrations	Hydro (usi	ocarbon Reco Ing Houba Da	overy ita)
12/30/2011 13:30					<u>/</u>		25	39	528	(FP-11-)	0.12	0.02	3 854 38
12/30/2011 14:00							25	38	1.073		0.12	0.02	3 854 59
12/30/2011 14:30							25	39	1 637		0.36	0.06	3 854 95
12/30/2011 16:00							25	38	1,728		1.32	0.00	3 856 27
12/30/2011 20:00							25	37	1,793		3.60	0.58	3,859,86
12/31/2011 0:01							25	35	1,852		3.59	0.57	3.863.45
12/31/2011 4:00							25	37	1,937		3.70	0.59	3,867.15
12/31/2011 8:00							25	39	2,010		4.08	0.65	3,871.23
12/31/2011 12:00							25	36	1,958		4.05	0.65	3,875.29
12/31/2011 13:15							22	57	1,538		1.38	0.22	3,876.67
12/31/2011 14:15							22	58	1,529		1.20	0.19	3,877.87
12/31/2011 15:15							22	56	1,486		1.17	0.19	3,879.04
12/31/2011 16:00							22	55	1,392		0.82	0.13	3,879.86
1/1/2012 4:00							22	57	1,173		11.73	1.88	3,891.59
1/1/2012 8:00							22	59	1,158		3.68	0.59	3,895.27
1/1/2012 12:00							22	56	1,117		3.56	0.57	3,898.83
1/1/2012 16:00							22	55	1,073		3.31	0.53	3,902.14
1/1/2012 20:00							22	59	1,047		3.29	0.53	3,905.43
1/2/2012 0:01							22	59	1,004		3.31	0.53	3,908.74
1/2/2012 4:00							22	60	956		3.16	0.51	3,911.90
1/2/2012 8:00							22	58	928		3.03	0.48	3,914.93
1/2/2012 12:00							22	56	911		2.85	0.46	3,917.79
1/2/2012 16:00							22	124	1,298		5.41	0.87	3,923.20
1/2/2012 20:00							22	132	1,252		8.89	1.42	3,932.09
1/3/2012 0:01							22	137	1,227		9.12	1.46	3,941.20
1/3/2012 4:00	<b></b>	L			ļ		19	148	1,177		9.29	1.49	3,950.49
1/3/2012 8:00	<b></b>						18	164	1,135		9.82	1.57	3,960.31
1/3/2012 11:00							. 18	163	1,103		7.47	1.20	3,967.79
1/3/2012 15:00	<b></b>						18	164	1,078		9.71	1.55	3,977.50
1/3/2012 16:00					<u> </u>		18	163	1,056		2.38	0.38	3,979.87

							SYSTEM PARAMETERS						
TIME	Extraction Well # <b>DP-1</b> (Stinger Depth)	Extraction Well # <b>DP-2</b> (Stinger Depth)	Extraction Well # DP-3 (Stinger Depth)	Extraction Well # <b>MW-2</b> (Stinger Depth)	Extraction Well # (Stinger Depth)	Extraction Well # (Stinger Depth)	System Vacuum (In of Hg)	Total System Inlet Flow (scfm)**	Influent Concentrations (ppmv)*	Effluent Concentrations (pomv) *	Hydro (usi	carbon Reco ng Horiba Da (cal)	verv ta)
1/3/2012 20:00							18	165	1.031		9.32	1 49	3 989 19
1/4/2012 0:01							18	167	1.017		9.30	1 49	3 998 49
1/4/2012 4:00							18	165	977		8.98	1.44	4 007 46
1/4/2012 8:00							18	163	923		8.48	1.36	4.015.95
1/4/2012 12:00							18	168	958		8,48	1.36	4.024.43
1/4/2012 16:00							18	162	971		8.67	1.39	4,033.09
1/4/2012 20:00							18	167	943		8.57	1.37	4,041.67
1/5/2012 0:01							18	163	967		8.62	1.38	4,050.28
1/5/2012 4:00							18	161	928		8.32	1.33	4,058.61
1/5/2012 8:00							18	165	939		8.29	1.33	4,066.89
1/5/2012 12:00							18	167	976		8.66	1.39	4,075.55
1/5/2012 16:00							18	163	952		8.66	1.39	4,084.21
1/5/2012 20:00							18	164	903		8.26	1.32	4,092.47
1/6/2012 0:01							18	165	928		8.24	1.32	4,100.71
1/6/2012 4:00							18	161	952		8.31	1.33	4,109.02
1/6/2012 8:00							18	162	917		8.22	1.32	4,117.24
1/6/2012 12:00							18	163	924		8.15	1.30	4,125.38
1/6/2012 16:00							18	164	893		8.09	1.29	4,133.47
1/6/2012 20:00							18	161	915		8.00	1.28	4,141.47
1/7/2012 0:01							18	165	886		8.03	1.28	4,149.50
1/7/2012 4:00							18	168	892		8.03	1.28	4,157.53
1/7/2012 8:00							18	163	871		7.95	1.27	4,165.47
1/7/2012 12:00					ļ		18	165	857		7.72	1.24	4,173.19
1/7/2012 20:00							18	161	882		15.44	2.47	4,188.63
1/8/2012 0:01					L		18	167	861		7.82	1.25	4,196.44
1/8/2012 4:00							18	164	879		7.81	1.25	4,204.25
1/8/2012 8:00							18	167	852		7.80	1.25	4,212.05
1/8/2012 12:00							18	163	883		7.80	1.25	4,219.85
1/8/2012 20:00							18	161	864		15.41	2.47	4,235.26
1/9/2012 4:00							18	168	821		15.10	2.42	4,250.35

							SYSTEM PARAMETERS						
TIME	Extraction Well # <b>DP-1</b> (Stinger	Extraction Well # <b>DP-2</b> (Stinger	Extraction Well # DP-3 (Stinger	Extraction Well # <b>MW-2</b> (Stinger	Extraction Well # (Stinger	Extraction Well # (Stinger	System ∀acuum	Total System Inlet Flow	Influent Concentrations	Effluent Concentrations	Hydro (usi	carbon Reco ng Horiba Da	overy ata)
	Depth)	Depth)	Depth)	Depth)	Depth)	Depth)	(in of Hg)	(scfn)**	(ppmv)*	(ppmv) *	(lbs)	(gal)	(Cumul Ibs)
1/9/2012 8:00							18	166	845		7.58	1.21	4,257.93
1/9/2012 12:00							18	165	817		7.49	1.20	4,265.42
1/9/2012 16:00							18	164	827		7.36	1.18	4,272.78
1/9/2012 16:45							18	162	811		1.36	0.22	4,274.15
									TOTAL HC RECO	VERED	4,274.15	684.14	

TOTAL GROUNDWATER EXTRACTED

43,530

Comments: Manual dilution was not opened during the event.

in of Hg = inches of mercury gal = gallons

scfm = standard cubic feet per minute lbs = pounds

\* Concentrations based on Horiba MEXA 324-JU field organic vapor analyzer, calibrated as hexane

Inlet flow measured through orifice tube and converted from acfm to reported scfm

11





## **ATTACHMENT 1**

### LABORATORY REPORTS



### Associated Laboratories

806 N. Batavia - Orange, CA 92868 Tel (714)771-6900 Fax (714)538-1209 www.associatedlabs.com Info@associatedlabs.com



Comments: Good Chevrolet 1630 Park St., Alameda, CA Global ID: T0600100655



Lab Request: 295822 Report Date: 12/15/2011 Date Received: 12/07/2011

Client ID: 9977

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods indicated on the attached report and all NELAC criteria. This cover letter is an integral part of the final report.

Sample #Client Sample ID295822-001DPE-1295822-002DPE-2295822-003DPE-3295822-004Total Inlet295822-005Stack

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward Behare

Lab Director NOTE: Unless notified in writing , all samples will be discarded by appropriate disposal protocol 45 days from date reported.

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TESTING & CONSULTING Chemical Microbiological Environmental

Sample #:	295822-001	Client:	Calclean
Matrix:	Air	Client Sample #:	DPE-1
Collect Date:	12/05/11	Site:	
Collect Time:	10:15 AM	Collector:	client

Compound	R	lesult	DF	RDL	Units Ar	nalysis Date	e Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchID:	QC1121362	
TPH Gasoline Vppm		5600	100	500	Vppm	12/10/11	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchID:	QC1121363	
Benzene Vppm		130	100	1	Vppm	12/10/11	sandyw
Ethylbenzene Vppm		2.6	100	1	Vppm	12/10/11	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		280	100	10	Vppm	12/10/11	sandyw
Toluene Vppm		56	100	1	Vppm	12/10/11	sandyw
Xylenes (Total) Vppm		14	100	3	Vppm	12/10/11	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 295822 Page 2 of 6

Sample #:	295822-002	Client:	Calclean
Matrix:	Air	Client Sample #:	DPE-2
Collect Date:	12/05/11	Site:	
Collect Time:	10:30 AM	Collector:	client

Compound	R	Result	DF	RDL	Units A	Analysis Date	e Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchl	D: QC1121362	
TPH Gasoline Vppm		4000	50	250	Vppm	12/10/11	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchI	D: QC1121363	
Benzene Vppm		110	50	0.5	Vppm	12/10/11	sandyw
Ethylbenzene Vppm		2.4	50	0.5	Vppm	12/10/11	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		160	50	5	Vppm	12/10/11	sandyw
Toluene Vppm		80	50	0.5	Vppm	12/10/11	sandyw
Xylenes (Total) Vppm		15	50	1.5	Vppm	12/10/11	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 295822 Page 3 of 6

Sample #:	295822-003	Client:	Calclean
Matrix:	Air	Client Sample #:	DPE-3
Collect Date:	12/05/11	Site:	
Collect Time:	10:40 AM	Collector:	client

Compound	R	lesult	DF	RDL	Units A	nalysis Date	Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchID	: QC1121362	
TPH Gasoline Vppm		7100	100	500	Vppm	12/10/11	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchID	: QC1121363	
Benzene Vppm		130	100	1	Vppm	12/10/11	sandyw
Ethylbenzene Vppm		5.5	100	1	Vppm	12/10/11	sandyw
Methyl-t-butyl Ether (MTBE) Vppm	**********************	550	250	25	Vppm	12/10/11	sandyw
Toluene Vppm		120	100	1	Vppm	12/10/11	sandyw
Xylenes (Total) Vppm		28	100	3	Vppm	12/10/11	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 295822 Page 4 of 6

Sample #:	295822-004	Client:	Calclean
Matrix:	Air	Client Sample #:	Total Inlet
Collect Date:	12/05/11	Site:	
Collect Time:	10:50 AM	Collector:	client

Compound	R	Result	DF	RDL	Units /	Analysis Date	e Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchll	<b>D:</b> QC1121362	
TPH Gasoline Vppm		6000	100	500	Vppm	12/10/11	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchl	D: QC1121363	
Benzene Vppm		110	100	1	Vppm	12/10/11	sandyw
Ethylbenzene Vppm		5.3	100	1	Vppm	12/10/11	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		170	100	10	Vppm	12/10/11	sandyw
Toluene Vppm		110	100	1	Vppm	12/10/11	sandyw
Xylenes (Total) Vppm		26	100	3	Vppm	12/10/11	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 295822 Page 5 of 6

Sample #:	295822-005	Client:	Calclean
Matrix:	Air	Client Sample #:	Stack
Collect Date:	12/05/11	Site:	
Collect Time:	11:00 AM	Collector:	client

Compound	R	lesult	DF	RDL	Units A	<b>Nalysis Date</b>	e Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchI	<b>b:</b> QC1121362	
TPH Gasoline Vppm		ND	1	5	Vppm	12/10/11	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchI	): QC1121363	
Benzene Vppm		ND	1	0.01	Vppm	12/10/11	sandyw
Ethylbenzene Vppm		ND	1	0.01	Vppm	12/10/11	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		ND	1	0.1	Vppm	12/10/11	sandyw
Toluene Vppm		ND	1	0.01	Vppm	12/10/11	sandyw
Xylenes (Total) Vppm		ND	1	0.03	Vppm	12/10/11	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 295822 Page 6 of 6
ASSOCIATED LABORATOR 806 North Batavia • Orange, CA 92860 Phone: (714) 771-6900 • Fax: (714) 53	<b>SIES</b> 3 18-1209		Cha	in of Cus	tody	/ Red	cor	d						La Pa	b Job No	29582 L of	.2	
CUSTOMER INFORMATI	ON		PROJEC	T INFORMATION					REC	UIRE	D TUR	IN AR	OUN		AE: Stand	dard: 📉 🗡		_
COMPANY CalClean Inc.		PROJECT NAM	IE: GOO	D CHEVE	20 LE	7		•	72	Hours	s:		48	Hour	s:	24 Hours:		
SEND REPORT TO: 3002 Dow, #142		NUMBER:							L									
EMAIL:		ADDRESS:	630	PARK	ST		/ 5	5/	61		1	7	7	7	TTT			
ADDRESS: NOEL SHEN	101	ſ	+LAN	IEDA, C	A			5	\$`\ \{`	/\$	*/ /	/ /	' /	' 1				
(714) 734-9	9137	P.O. #:		,		$\Box$ /		$\frac{0}{4}$	<u> </u>	<b>]</b> Z	' /			/				
Fax (714) 734-	9138	SAMPLED BY:			T		? ; ; ; ; ; ; ; ; ;	19 M		\$	/ /		.	/ /				
Sample ID	Date	Time	Matrix	Container Number/Size	Pres	s	4/2	ĩ/		.			.	/ ,	Test In:	structions &	Commen	te
IDPE-1	12/5/1	1 1015	AIR	TEDĻAR	NON	VE X	X			-(	$\int$							
2 DPE-2		1030														· · · · · · · · · · · · · · · · · · ·		
3 DPF3		1040					+					$\rightarrow$		-				
1 TOLAL Talet		1010			+													
5 Stock		1000					+											······
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15					1					- <u> </u>	+				1060	BRAAN	55	
Total No. of Samples: 5	Method	d of Shipme	nt:		<u> </u>	Pres	ervat	ive:	1= lce	e 2:	HCI	3 =	=HN(	 ጋ <sub>3</sub>	4 =H₂SO₄	5 =NaOH 6	6 =Other	
Relinquished by 1. Rec	eived By:	1.	Relinquis	shed by	2.	Received	By:			2.	Relir	nquish	ed by	,	3.	Received By:		3.
Signature: Sign	and co	Q.	Signature	:		Signature	): .			<del></del>	Sign	ature:				Signature:		
Printed Name: Prin NOEL SHENGI	ted Name:	20	Printed N	ame:		Printed N	ame:				Print	ed Nar	me:			Printed Name:	· .	
Date: Time: Date $12/7/11$	2(71)	Time:	Date:	Time:		Date:			Time:		Date	:			Time:	Date:	Time	:



## Associated Laboratories

806 N. Batavia - Orange, CA 92868 Tel (714)771-6900 Fax (714)538-1209 www.associatedlabs.com Info@associatedlabs.com



Lab Request: 296186 Report Date: 12/21/2011 Date Received: 12/13/2011

Client ID: 9977

Client: Calclean Address: 3002 Dow Ave. #142 Tustin, CA 92780 Attn: Noel Shenoi

Comments: Good Chevrolet 1630 Park St., Alameda, CA Global ID: T0600100655

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods indicated on the attached report and all NELAC criteria. This cover letter is an integral part of the final report.

Sample #	Client Sample ID
296186-001	DPE-1
296186-002	DPE-1
296186-003	DPE-1
296186-004	DPE-3
296186-005	DPE-3
296186-006	DPE-3
296186-007	DPE-3
296186-008	DPE-2
296186-009	DPE-2
296186-010	DPE-2
296186-011	DPE-2
296186-012	Total Inlet
296186-013	Total Inlet
296186-014	Total Inlet
296186-015	Total Inlet

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by.

Edward S. Behare, Lab Director

NOTE: Unless notified in writing , all samples will be discarded by appropriate disposal protocol 45 days from date reported.

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TESTING & CONSULTING Chemical Microbiological Environmental

Sample #:	296186-001	Client:	Calclean
Matrix:	Air	Client Sample #:	DPE-1
Collect Date:	12/06/11	Site:	
Collect Time:	02:05 PM	Collector:	client

Compound	R	lesult	DF	RDL	Units A	Analysis Date	e Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchI	D: QC1121622	
TPH Gasoline Vppm		6900	100	500	Vppm	12/18/11	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchI	D: QC1121621	
Benzene Vppm		150	100	1	Vppm	12/18/11	sandyw
Ethylbenzene Vppm		26	100	1	Vppm	12/18/11	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		120	100	10	Vppm	12/18/11	sandyw
Toluene Vppm		230	100	1	Vppm	12/18/11	sandyw
Xylenes (Total) Vppm		77	100	3	Vppm	12/18/11	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 296186 Page 2 of 16

Sample #:	296186-002	Client:	Calclean
Matrix:	Air	Client Sample #:	DPE-1
Collect Date:	12/06/11	Site:	
Collect Time:	08:00 PM	Collector:	client

Compound	F	Result	DF	RDL	Units /	Analysis Date	e Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchl	D: QC1121622	
TPH Gasoline Vppm		7500	100	500	Vppm	12/18/11	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchl	<b>D:</b> QC1121621	
Benzene Vppm		130	100	1	Vppm	12/18/11	sandyw
Ethylbenzene Vppm		32	100	1	Vppm	12/18/11	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		84	100	10	Vppm	12/18/11	sandyw
Toluene Vppm		250	100	1	Vppm	12/18/11	sandyw
Xylenes (Total) Vppm		98	100	3	Vppm	12/18/11	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 296186 Page 3 of 16

Sample #:	296186-003	Client:	Calclean
Matrix:	Air	Client Sample #:	DPE-1
Collect Date:	12/07/11	Site:	
Collect Time:	04:00 AM	Collector:	client

Compound	R	lesult	DF	RDL	Units A	Analysis Date	Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchI	<b>D:</b> QC1121622	
TPH Gasoline Vppm		6500	100	500	Vppm	12/18/11	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchID	D: QC1121621	
Benzene Vppm		120	100	1	Vppm	12/18/11	sandyw
Ethylbenzene Vppm		24	100	1	Vppm	12/18/11	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		79	100	10	Vppm	12/18/11	sandyw
Toluene Vppm		220	100	1	Vppm	12/18/11	sandyw
Xylenes (Total) Vppm		72	100	3	Vppm	12/18/11	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 296186 Page 4 of 16

Sample #:	296186-004	Client:	Calclean
Matrix:	Air	Client Sample #:	DPE-3
Collect Date:	12/07/11	Site:	
Collect Time:	09:05 AM	Collector:	client

Compound	R	Result	DF	RDL	Units A	nalysis Date	e Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchID	): QC1121622	
TPH Gasoline Vppm		10000	100	500	Vppm	12/18/11	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchIE	: QC1121621	
Benzene Vppm		180	100	1	Vppm	12/18/11	sandyw
Ethylbenzene Vppm		35	100	1	Vppm	12/18/11	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		93	100	10	Vppm	12/18/11	sandyw
Toluene Vppm		310	100	1	Vppm	12/18/11	sandyw
Xylenes (Total) Vppm		100	100	3	Vppm	12/18/11	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 296186 Page 5 of 16

Sample #:	296186-005	Client:	Calclean
Matrix:	Air	Client Sample #:	DPE-3
Collect Date:	12/07/11	Site:	
Collect Time:	11:00 AM	Collector:	client

Compound	F	lesult	DF	RDL	Units A	nalysis Date	e Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchID:	QC1121622	
TPH Gasoline Vppm		15000	125	625	Vppm	12/18/11	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchID:	QC1121621	
Benzene Vppm		180	125	1.25	Vppm	12/18/11	sandyw
Ethylbenzene Vppm		49	125	1.25	Vppm	12/18/11	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		330	125	12.5	Vppm	12/18/11	sandyw
Toluene Vppm		320	125	1.25	Vppm	12/18/11	sandyw
Xylenes (Total) Vppm		110	125	3.75	Vppm	12/18/11	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 296186 Page 6 of 16

Sample #:	296186-006	Client:	Calclean
Matrix:	Air	Client Sample #:	DPE-3
Collect Date:	12/07/11	Site:	
Collect Time:	04:00 PM	Collector:	client

Compound	F	lesult	DF	RDL	Units /	Analysis Date	e Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchll	D: QC1121622	
TPH Gasoline Vppm		9200	100	500	Vppm	12/18/11	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchll	D: QC1121621	
Benzene Vppm		120	100	1	Vppm	12/18/11	sandyw
Ethylbenzene Vppm		54	100	1	Vppm	12/18/11	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		210	100	10	Vppm	12/18/11	sandyw
Toluene Vppm		330	100	1	Vppm	12/18/11	sandyw
Xylenes (Total) Vppm		140	100	3	Vppm	12/18/11	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 296186 Page 7 of 16

Sample #:	296186-007	Client:	Calclean
Matrix:	Air	Client Sample #:	DPE-3
Collect Date:	12/08/11	Site:	
Collect Time:	04:00 AM	Collector:	client

Compound	F	Result	DF	RDL	Units A	nalysis Date	e Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchID	: QC1121622	
TPH Gasoline Vppm		10000	100	500	Vppm	12/18/11	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchID	: QC1121621	
Benzene Vppm		120	100	ຸ 1	Vppm	12/18/11	sandyw
Ethylbenzene Vppm		51	100	1	Vppm	12/18/11	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		240	100	10	Vppm	12/18/11	sandyw
Toluene Vppm		260	100	1	Vppm	12/18/11	sandyw
Xylenes (Total) Vppm		130	100	3	Vppm	12/18/11	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 296186 Page 8 of 16

Sample #:	296186-008	Client:	Calclean
Matrix:	Air	Client Sample #:	DPE-2
Collect Date:	12/08/11	Site:	
Collect Time:	09:30 AM	Collector:	client

Compound	F	Result	DF	RDL	Units /	Analysis Date	e Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchl	<b>D:</b> QC1121622	
TPH Gasoline Vppm		2100	25	125	Vppm	12/18/11	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchll	D: QC1121621	
Benzene Vppm		25	25	0.25	Vppm	12/18/11	sandyw
Ethylbenzene Vppm		8.7	25	0.25	Vppm	12/18/11	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		17	25	2.5	Vppm	12/18/11	sandyw
Toluene Vppm		64	25	0.25	Vppm	12/18/11	sandyw
Xylenes (Total) Vppm		27	25	0.75	Vppm	12/18/11	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 296186 Page 9 of 16

Sample #:	296186-009	Client:	Calclean
Matrix:	Air	Client Sample #:	DPE-2
Collect Date:	12/08/11	Site:	
Collect Time:	11:30 AM	Collector:	client

Compound	R	lesult	DF	RDL	Units A	nalysis Date	e Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchID	QC1121622	
TPH Gasoline Vppm		1800	25	125	Vppm	12/18/11	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchID	QC1121621	
Benzene Vppm		21	25	0.25	Vppm	12/18/11	sandyw
Ethylbenzene Vppm		5.7	25	0.25	Vppm	12/18/11	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		41	25	2.5	Vppm	12/18/11	sandyw
Toluene Vppm		68	25	0.25	Vppm	12/18/11	sandyw
Xylenes (Total) Vppm		20	25	0.75	Vppm	12/18/11	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 296186 Page 10 of 16

Sample #:	296186-010	Client:	Calclean
Matrix:	Air	Client Sample #:	DPE-2
Collect Date:	12/08/11	Site:	
Collect Time:	04:00 PM	Collector:	client

Compound	R	Result	DF	RDL	Units A	nalysis Date	e Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchID:	QC1121622	
TPH Gasoline Vppm		1900	25	125	Vppm	12/18/11	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchID:	QC1121621	
Benzene Vppm		22	25	0.25	Vppm	12/18/11	sandyw
Ethylbenzene Vppm		6.3	25	0.25	Vppm	12/18/11	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		43	25	2.5	Vppm	12/18/11	sandyw
Toluene Vppm		75	25	0.25	Vppm	12/18/11	sandyw
Xylenes (Total) Vppm		21	25	0.75	Vppm	12/18/11	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 296186 Page 11 of 16

Sample #:	296186-011	Client:	Calclean
Matrix:	Air	Client Sample #:	DPE-2
Collect Date:	12/09/11	Site:	
Collect Time:	04:00 AM	Collector:	client

Compound	F	Result	DF	RDL	Units A	Analysis Date	e Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchll	<b>D:</b> QC1121622	
TPH Gasoline Vppm		2500	50	250	Vppm	12/18/11	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchil	D: QC1121621	
Benzene Vppm		25	50	0.5	Vppm	12/18/11	sandyw
Ethylbenzene Vppm		7.8	50	0.5	Vppm	12/18/11	sandyw
Methyl-t-butyl Ether (MTBE) Vppm	*********************	60	50	5	Vppm	12/18/11	sandyw
Toluene Vppm		95	50	0.5	Vppm	12/18/11	sandyw
Xylenes (Total) Vppm		26	50	1.5	Vppm	12/18/11	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 296186 Page 12 of 16

Sample #:	296186-012	Client:	Calclean
Matrix:	Air	Client Sample #:	Total Inlet
Collect Date:	12/09/11	Site:	
Collect Time:	09:00 AM	Collector:	client

Compound	R	Result	DF	RDL	Units /	Analysis Date	e Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchll	<b>D:</b> QC1121622	
TPH Gasoline Vppm		7400	100	500	Vppm	12/18/11	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchil	D: QC1121621	
Benzene Vppm		44	100	. 1	Vppm	12/18/11	sandyw
Ethylbenzene Vppm		16	100	1	Vppm	12/18/11	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		73	100	10	Vppm	12/18/11	sandyw
Toluene Vppm		140	100	1	Vppm	12/18/11	sandyw
Xylenes (Total) Vppm		56	100	3	Vppm	12/18/11	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 296186 Page 13 of 16

Sample #:	296186-013	Client:	Calclean
Matrix:	Air	Client Sample #:	Total Inlet
Collect Date:	12/10/11	Site:	
Collect Time:	08:00 AM	Collector:	client

Compound	R	lesult	DF	RDL	Units A	nalysis Date	e Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchID	QC1121622	
TPH Gasoline Vppm		6100	100	500	Vppm	12/18/11	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchID:	QC1121621	A.M.
Benzene Vppm		53	100	1	Vppm	12/18/11	sandyw
Ethylbenzene Vppm		17	100	1	Vppm	12/18/11	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		95	100	10	Vppm	12/18/11	sandyw
Toluene Vppm		140	100	1	Vppm	12/18/11	sandyw
Xylenes (Total) Vppm		59	100	3	Vppm	12/18/11	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 296186 Page 14 of 16

Sample #:	296186-014	Client:	Calclean
Matrix:	Air	Client Sample #:	Total Inlet
Collect Date:	12/11/11	Site:	
Collect Time:	08:00 AM	Collector:	client

Compound	R	lesult	DF	RDL	Units A	nalysis Date	e Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchID	: QC1121622	
TPH Gasoline Vppm		6000	100	500	Vppm	12/18/11	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchID	QC1121621	
Benzene Vppm	,	56	100	1	Vppm	12/18/11	sandyw
Ethylbenzene Vppm		18	100	1	Vppm	12/18/11	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		33	100	10	Vppm	12/18/11	sandyw
Toluene Vppm		140	100	1	Vppm	12/18/11	sandyw
Xylenes (Total) Vppm		61	100	3	Vppm	12/18/11	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 296186 Page 15 of 16

Sample #:	296186-015	Client:	Calclean
Matrix:	Air	Client Sample #:	Total Inlet
Collect Date:	12/12/11	Site:	
Collect Time:	08:00 AM	Collector:	client

Compound	R	lesult	DF	RDL	Units A	nalysis Date	e Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchID:	QC1121622	
TPH Gasoline Vppm		7400	100	500	Vppm	12/18/11	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchID:	QC1121621	
Benzene Vppm		61	100	1	Vppm	12/18/11	sandyw
Ethylbenzene Vppm		18	100	1	Vppm	12/18/11	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		120	100	10	Vppm	12/18/11	sandyw
Toluene Vppm		160	100	1	Vppm	12/18/11	sandyw
Xylenes (Total) Vppm		65	100	3	Vppm	12/18/11	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 296186 Page 16 of 16

### ASSOCIATED LABORATORIES

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## Associated Laboratories

806 N. Batavia - Orange, CA 92868 Tel (714)771-6900 Fax (714)538-1209 www.associatedlabs.com Info@associatedlabs.com



Lab Request: 297267 Report Date: 01/16/2012 Date Received: 01/04/2012

Client ID: 9977

Client: Calclean Address: 3002 Dow Ave. #142 Tustin, CA 92780 Attn: Noel Shenoi

Comments: Good Chevrolet 1630 Park Street, Alameda Global ID: T0600100655

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods indicated on the attached report and all NELAC criteria. This cover letter is an integral part of the final report.

## Sample # Client Sample ID 297267-001 Total Inlet 297267-002 Total Inlet 297267-003 DPE-1 297267-004 DPE-2

DPE-3

297267-005

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

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Lab Director NOTE: Unless notified in writing , all samples will be discarded by appropriate disposal protocol 45 days from date reported.

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TESTING & CONSULTING Chemical Microbiological Environmental

Sample #:	297267-001	Client:	Calclean
Matrix:	Air	Client Sample #:	Total Inlet
Collect Date:	12/22/11	Site:	
Collect Time:	01:00 PM	Collector:	client

Compound	R	lesult	DF	RDL	Units /	Analysis Date	Analyst
Method: EPA 8015B P	Prep Method:	Method			QCBatchll	D: QC1122272	
TPH Gasoline Vppm		3800	50	250	Vppm	01/07/12	sandyw
Method: EPA 8021B F	Prep Method:	Method			QCBatchli	D: QC1122273	
Benzene Vppm		48	50	0.5	Vppm	01/07/12	sandyw
Ethylbenzene Vppm		27	50	0.5	Vppm	01/07/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		56	50	5	Vppm	01/07/12	sandyw
Toluene Vppm		62	50	0.5	Vppm	01/07/12	sandyw
Xylenes (Total) Vppm		87	50	1.5	Vppm	01/07/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit D



Analytical Results Report Lab Request 297267 Page 2 of 6

Sample #:	297267-002	Client:	Calclean
Matrix:	Air	Client Sample #:	Total Inlet
Collect Date:	12/30/11	Site:	
Collect Time:	03:55 AM	Collector:	client

Compound	R	Result	DF	RDL	Units /	Analysis Date	Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchl	D: QC1122272	
TPH Gasoline Vppm		4300	50	250	Vppm	01/07/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchl	D: QC1122273	
Benzene Vppm		39	50	0.5	Vppm	01/07/12	sandyw
Ethylbenzene Vppm		21	50	0.5	Vppm	01/07/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		12	50	5	Vppm	01/07/12	sandyw
Toluene Vppm		36	50	0.5	Vppm	01/07/12	sandyw
Xylenes (Total) Vppm		66	50	1.5	Vppm	01/07/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 297267 Page 3 of 6

Sample #:	297267-003	Client:	Calclean
Matrix:	Air	Client Sample #:	DPE-1
Collect Date:	12/30/11	Site:	
Collect Time:	04:00 AM	Collector:	client

Compound	R	Result	DF	RDL	Units A	Analysis Date	e Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchII	D: QC1122272	
TPH Gasoline Vppm		3300	50	250	Vppm	01/07/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchI	): QC1122273	
Benzene Vppm		27	50	0.5	Vppm	01/07/12	sandyw
Ethylbenzene Vppm		12	50	0.5	Vppm	01/07/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		11	50	5	Vppm	01/07/12	sandyw
Toluene Vppm		38	50	0.5	Vppm	01/07/12	sandyw
Xylenes (Total) Vppm		36	50	1.5	Vppm	01/07/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 297267 Page 4 of 6

Sample #:	297267-004	Client:	Calclean
Matrix:	Air	Client Sample #:	DPE-2
Collect Date:	12/30/11	Site:	
Collect Time:	04:05 AM	Collector:	client

Compound	F	Result	DF	RDL	Units /	Analysis Date	Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchl	<b>D:</b> QC1122272	
TPH Gasoline Vppm		3100	50	250	Vppm	01/07/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchl	D: QC1122273	
Benzene Vppm		50	50	0.5	Vppm	01/07/12	sandyw
Ethylbenzene Vppm		15	50	0.5	Vppm	01/07/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		55	50	5	Vppm	01/07/12	sandyw
Toluene Vppm		55	50	0.5	Vppm	01/07/12	sandyw
Xylenes (Total) Vppm		43	50	1.5	Vppm	01/07/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 297267 Page 5 of 6

Sample #:	297267-005	Client:	Calclean
Matrix:	Air	Client Sample #:	DPE-3
Collect Date:	12/30/11	Site:	
Collect Time:	04:10 AM	Collector:	client

Compound	F	Result	DF	RDL	Units /	Analysis Date	Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchl	D: QC1122272	
TPH Gasoline Vppm		3300	50	250	Vppm	01/07/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchl	D: QC1122273	
Benzene Vppm		62	50	0.5	Vppm	01/07/12	sandyw
Ethylbenzene Vppm		20	50	0.5	Vppm	01/07/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		58	50	5	Vppm	01/07/12	sandyw
Toluene Vppm		64	50	0.5	Vppm	01/07/12	sandyw
Xylenes (Total) Vppm		55	50	1.5	Vppm	01/07/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 297267 Page 6 of 6

### ASSOCIATED LABORATORIES

806 North Batavia • Orange, CA 92868 Phone: (714) 771-6900 • Fax: (714) 538-1209

Phone

Sample ID

Fax

COMPANY

EMAIL:

PHONE:

ADDRESS:

SEND REPORT TO:

CUSTOMER INFORMATION

CalClean Inc. \_\_\_ 3002 Dow, #142

Tustin, CA 92780

NOEL SHENOI

(714) 734-9137

(714) 734-9138

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Date

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## Associated Laboratories

806 N. Batavia - Orange, CA 92868 Tel (714)771-6900 Fax (714)538-1209 www.associatedlabs.com Info@associatedlabs.com



Comments: Good Chevrolet 1630 Park St., Alameda, CA Global ID: T0600100655



Lab Request: 297588 Report Date: 01/16/2012 Date Received: 01/11/2012

Client ID: 9977

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods indicated on the attached report and all NELAC criteria. This cover letter is an integral part of the final report.

# Sample #Client Sample ID297588-001Total Inlet297588-002Total Inlet297588-003MW-2297588-004DPE-2297588-005DPE-1

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORA TORIES by,

Lab'Director

Edward S. Behare, P

NOTE: Unless notified in writing , all samples will be discarded by appropriate disposal protocol 45 days from date reported.

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TESTING & CONSULTING Chemical Microbiological Environmental

Sample #:	297588-001	Client:	Calclean
Matrix:	Air	Client Sample #:	Total Inlet
Collect Date:	01/06/12	Site:	
Collect Time:	08:00 AM	Collector:	client

Compound	R	lesult	DF	RDL	Units A	Analysis Date	Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchI	D: QC1122373	
TPH Gasoline Vppm		1300	25	125	Vppm	01/12/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchl	<b>D:</b> QC1122377	
Benzene Vppm		17	25	0.25	Vppm	01/12/12	sandyw
Ethylbenzene Vppm		15	25	0.25	Vppm	01/12/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		14	25	2.5	Vppm	01/12/12	sandyw
Toluene Vppm		93	25	0.25	Vppm	01/12/12	sandyw
Xylenes (Total) Vppm		59	25	0.75	Vppm	01/12/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 297588 Page 2 of 6

Sample #:	297588-002	Client:	Calclean
Matrix:	Air	Client Sample #:	Total Inlet
Collect Date:	01/09/12	Site:	
Collect Time:	04:45 PM	Collector:	client

Compound	R	Result	DF	RDL	Units Analysis Date Analyst						
Method: EPA 8015B	Prep Method:	Method			QCBatchil	D: QC1122373					
TPH Gasoline Vppm		1500	25	125	Vppm	01/12/12	sandyw				
Method: EPA 8021B	Prep Method:	Method			QCBatchl	<b>D:</b> QC1122377					
Benzene Vppm		22	25	0.25	Vppm	01/12/12	sandyw				
Ethylbenzene Vppm		19	25	0.25	Vppm	01/12/12	sandyw				
Methyl-t-butyl Ether (MTBE) Vppm		18	25	2.5	Vppm	01/12/12	sandyw				
Toluene Vppm		110	25	0.25	Vppm	01/12/12	sandyw				
Xylenes (Total) Vppm		76	25	0.75	Vppm	01/12/12	sandyw				

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 297588 Page 3 of 6

Sample #:	297588-003	Client:	Calclean
Matrix:	Air	Client Sample #:	MW-2
Collect Date:	01/06/12	Site:	
Collect Time:	04:50 PM	Collector:	client

Compound	R	lesult	DF	RDL	Units /	Analysis Date	Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchl	D: QC1122373	
TPH Gasoline Vppm		1000	25	125	Vppm	01/12/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchl	<b>D:</b> QC1122377	
Benzene Vppm		9.0	25	0.25	Vppm	01/12/12	sandyw
Ethylbenzene Vppm		15	25	0.25	Vppm	01/12/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		13	25	2.5	Vppm	01/12/12	sandyw
Toluene Vppm		74	25	0.25	Vppm	01/12/12	sandyw
Xylenes (Total) Vppm		61	25	0.75	Vppm	01/12/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 297588 Page 4 of 6

Sample #:	297588-004	Client:	Calclean
Matrix:	Aír	Client Sample #:	DPE-2
Collect Date:	01/06/12	Site:	
Collect Time:	04:55 PM	Collector:	client

Compound	F	Result	DF	RDL	Units Analysis Date Analyst						
Method: EPA 8015B	Prep Method:	Method			QCBatchI	<b>D:</b> QC1122373					
TPH Gasoline Vppm		1700	25	125	Vppm	01/12/12	sandyw				
Method: EPA 8021B	Prep Method:	Method			QCBatchI	): QC1122377					
Benzene Vppm		28	25	0.25	Vppm	01/12/12	sandyw				
Ethylbenzene Vppm		19	25	0.25	Vppm	01/12/12	sandyw				
Methyl-t-butyl Ether (MTBE) Vppm		22	25	2.5	Vppm	01/12/12	sandyw				
Toluene Vppm		130	50	0.5	Vppm	01/12/12	sandyw				
Xylenes (Total) Vppm		77	25	0.75	Vppm	01/12/12	sandyw				

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 297588 Page 5 of 6

Sample #:	297588-005	Client:	Calclean
Matrix:	Air	Client Sample #:	DPE-1
Collect Date:	01/06/12	Site:	
Collect Time:	05:00 PM	Collector:	client

Compound	F	Result	DF	RDL	Units Analysis Date Analyst					
Method: EPA 8015B	Prep Method:	Method			QCBatchI	): QC1122373				
TPH Gasoline Vppm		1600	25	125	Vppm	01/12/12	sandyw			
Method: EPA 8021B	Prep Method:	Method			QCBatchI	): QC1122377				
Benzene Vppm		24	25	0.25	Vppm	01/12/12	sandyw			
Ethylbenzene Vppm		20	25	0.25	Vppm	01/12/12	sandyw			
Methyl-t-butyl Ether (MTBE) Vppm		18	25	2.5	Vppm	01/12/12	sandyw			
Toluene Vppm		120	50	0.5	Vppm	01/12/12	sandyw			
Xylenes (Total) Vppm		80	25	0.75	Vppm	01/12/12	sandyw			

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 297588 Page 6 of 6

#### ASSOCIATED LABORATORIES

806 North Batavia • Orange, CA 92868 Phone: (714) 771-6900 • Fax: (714) 538-1209 (



## **Chain of Custody Record**

Lab Job No.	297588
Page	of

CUST	OMER INFORM	ATION			REQUIRED TURN AROUND TIME:						N AR	IE: Standard: <u>×</u>							
COMPANY	CalClean Inc.		PROJECT NA	ME: GOD	D CHEV	RO LE	7			-	2 Hou	rs:			48	Нои	rs:	24 Hours:	
SEND REPORT TO:	3002 Dow, #14	2	NUMBER:				- <u>-</u>												
EMAIL:	Tustin, CA 9278	<u> </u>	ADDRESS:	630	PARK	ST		7	5/	The state	77	~	7	7	7	7	TTT		
ADDRESS:	NOEL SHE	ENOI	1	+LAN	VEDA, C	A			5	[s] ]		\$/	· /	' /	' /	' 'j			
Pnon	° (714) 734	4-9137 <u> </u>	P.O. #:		)			2	$\hat{S}/\hat{J}$	<u>@</u> /	5	/		/	1				
PHONE: Fax	(714) 734	4-9138	SAMPLED BY:	./			/3	\$~/~	12	/ /	S.	/	/ /	/ /	/.	/			
Sam	ple ID	Date	Time	Matrix	Container	. Pres	ANIA	Ha a			\$   	/		/	.	/	/		
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1 JOH	-ruez	1/1/12	- 1645																
11/W-	2		1650																
DPE -	2		1655														·····		
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Total No. of Sam	oles: K	Metho	d of Shipme				<b>D</b>	·						_					
Relinquished by	1. F	Received By: A		Relinqui	shed by	2	Pre	serva	ative:	1=	ICE 2	! = <b> </b>	HCI	3 =	=HN	O <sub>3</sub>	$4 = H_2 SO_4$	5 = NaOH	H 6 = Other
					2.	neceive	u by.			2	.	Rein	quisr	ied by	/	3.	Received	By: 3.	
Signature:	hera is	Signature C	Sent	Signature	3:		Signatur	e:					Signa	ature:				Signature:	
NOEL S	HENOI	Printed Name:		Printed N	lame:		Printed N	Name:	,				Printe	ed Na	me:			Printed Na	me:
	<u>15</u> 1	Date: 11112	Time; 15.17	Date:	Time:		Date:	ate: Time: Date:						Time: Date: Tim					
ME	v " l		<u> </u>		· · · · · · · · · · · · · · · · · · ·	· · ·													

Project Client:	Location: BUESTA	: 1630 F D	PARK ST	REET			City: ALMEDA Site #: GOOD CHEVROLET Date: 12/5/2011										Page A of 9				
										E	XTRA	CTION	I WEL	LS							
		Well I.D.			DRE	-1	_	DPE	5-3		DPE-Z										Cumul
	Screen Interval: From-To (ft)														<u> </u>			Watan Mata-	Cumul. Water		
Time	Initial D	epth To V	Vater DTV	V (ft)	8.	61		1.7	3_		85	15						·		Readings	Extracted
/ime	Vacuum	Flowrate	Temp.	Conc.	Off/On		Depth	Off/On	DTW	Stinger	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger	Off/On	DTW	Stinger	unite	gala
	("Hg.)	(cfm)	(degF)	(ppmv)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	12380	yais
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<u>רוס</u>		***			dff			ON												1000-	
030	24	37	1452	6740																	
032		100						OFF			ON										
040	24	36	1458	8710																	
042					ON			50													
050	22	97	1447	9510																	
200	22	98	1443	9230	OFF			OFF			OFF										
2/06										· · ·											
5700		· · · · ·				8,81			7.92												
)Sa	2				62	VAC	5-					9.29									
140	23	31	1452	5610		17			VAC			VAC								17.410	20
210	25	34	1453	5040		16														10110	
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300	25	30	1455	6390		16															
330	25	31	1454	5920		16															
400	25	32	1449	7790		16															
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-	nuc		2=-10	2 Int	<u>ເ</u>	Dr7		INCLO	<u>- 1751</u>	78.5					- 70		NOVE		MUL	PIAKE	<u>h yo</u>

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14/10-1100 START OV UNIT. THE-I VAPOR GAMPLE TAKEN @ 1405.

HIGH VACUUM						M		SVE or X DPE FIELD DATA SHEET										CalClean Inc.			
Project I	Location:	1630 P	ARK ST	REET			City: A		<b>A</b>	1		Site #: (	GOOD	CHEVR	OLET		Date:	2,01	201	Page 2A of 19	
Client: I	BUESTA	D							Operato	(s): N	TUK										
									_	E	XTRACTION WELLS										
		Well I.D.			DRE	-(	DRE-3.				DRE	2									Cumul
	Screen	Interval: I	From-To (1	ît)				-	· . · · ·											Water Meter	Water
Time	Initial D	epth To V	ater DTV	/ (ft)	0500	DTM	CH	0510-	DTM	011	0.00		0.1							Readings	Extracted
	Vacuum	Flowrate	Temp.	Conc.	Off/On	VAL	Depth	Off/On	DIW	Sunger Depth	Ott/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	units	gals
	("Hg.)	(cfm)	(degF)	(ppmv)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)		Ĵ.
12/06	26	-	1		ON	VAC	13.5				JAC	0.00									
1000	19	31	1447	6750		12		0.71	537		0,31	9,42									
1000	US.	-: 20	1442	6810		12		0,29	8,37		0,10	4,41									
401	16	1.1		101120		10		0-1	0 111		2-14	11.16									
000	26	26	1440	6226		10		0.0	8,39 0 20		0167	7,48								·	
0206	15	37	1449	6/40		10		0.29	0117		0,01	7171 a (.)								17.110	727
0865			1740	42410	Of St.	10		0.51	VAL.	5	<u>0:17</u> ≝	1.01								12140	170
0900	25	38	1453	830	(7.30			0.0	17	-5	0.74	12									
0930	25	34	1451	9930	0.25				12		0.30										
1000	25	31	1451	101070	0.25				13		0.75										
1030	25	37	1446	10390	0.76				13		0.80										
1100	25	33	1445	11640	6.28	1			17		0.95										
1130	25	32	1454	12810	0.26	10.73			13	12	0.92	11.82									
1200	25	34	1451	11370	0.25	10.77			13		0,90	11.85								11	
17,30	25	31	1454	11920	0,28	10.72			13		0,92	11.89									
1300	25	32	145le	10730	0.25	10.77			13		094	11,93									
1400	25	31	1451	10510	0.71	10,81			13		0.91	11.94									
1600	25	32	1451	10930	0.29	10.83			12		1.06	11.97									
1600	15	34	1448	10870	0,30	10,84			12		1.11	11.99									
1000	2000 25 31 1447 10410 0.35 10.88 11 1.27 12.03 13450 1070																				
Comme	ents: \	2/10-	UYE	<u>-1 VAR</u>	or 5	Arpl	<u>t67</u>	AKEN		2000	)										
	41.	- VAP	01-6k	mples -	TAKE	H AK	FOU	ws	<u>- 'V')</u>	E-1(	00	400	<u>D't</u>	18-30	<u> </u>	105	1100	110	00.		

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			HIG	GH VA	CUU	M		SVE	or	X	DPE		FIEL	D DA	TA S	HEET	Г			CalClea	an Inc.	
Project	Location:	1630 P		REET	City: ALMEDA ) Site #: GOOD CHEVROLET Date: 12/8/2011										201	Page 3A of 19						
Client: BUESTAD					Operator (s): NECK												<u>.</u>					
					EXTRACTION WELLS																	
	Well I.D.					-1		DPE-3			DDE-2										Cumul.	
	Screen	creen Interval: From-To (ft)						<i>a</i> ,												Water Meter	Water	
Time	Unitial D	Depth To Water DTW (ft) t Air TOX Vapor Inlet			Off/On DTW Stinge			Off/On	DTW	DTW Stinger		Off/On DTW Stinger		Off/On DTW Stinger			Off/On DTW Stinger			Readings	Extracted	
	Vacuum	Flowrate	Temp.	Conc.	VAL		Depth			Depth	VAC	2	Depth	0.4011	5	Depth	Olir Oli	DIM	Depth	units	gals	
17/0	("Hg.)	(cfm)	(degF)	(ppmv)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)			
DMI	15	31	1461	1000	DZI	1093		<u>ON</u>			1 74	1210								<u> </u>		
0400	25	33	1453	91430	037	10.99			0		1.46	12.17			<u> </u>							
0800	24	30	1451	9240	0.48	11.04			0		1.55	12.28								13760	1280	67.0
			<u>, , , , , , , , , , , , , , , , , , , </u>					OFF			DN	10.00	5-							10.0	1700	e
0830	25	31	1452	6370	0.45			1.15			14											1
<b>1900</b>	25	30	1451	6640	D.45			1.15			14											1.1
-0930	25	30	1451	6810	0.45			1.10			14											1
1000	25	31	1450	7340	0,45		·	1,15			14											
1030	25	32	1454	7260	0.45			1.15			13											
0011	24	39	1451	7490	0,45	11.17		1.15	10.98		12		13									
-1130	24	38	1452	8230	0.45	11.19		1.20	10.99		12	_				(		-				
1200	24	36	1451	8170	0,40	11.11		1.20	11.03		12					4						
1270	14	71	1447	1940	0.40	11.15		1.12	11.01		12											1
1900	14	20	1491	0170	0.40	11,100		1.15	11.01		16											
1400	12		1441	7940	0 UD	11.19		1.00	11.00		16											1
3600	13	44	1461	7530	0140	1117		1.07	11.00		12											ł
1,000	23	43	1449	10720	0.35	11.110		0.20	11.05		12									14070	110417	510
						1 TOL		<u>V.U.V</u>													10-10	<b>1</b>
Comm	ents:	2/8	- VA9	or SA	MPLE	5	AGF	010	Neg-	- TPP	E-3(	20	400,	DRE	-20	20	930	2, 11?	0,16	<i>0</i> 00 <i>.</i>		

HIGH VACUUM						М		SVE or X DPE FIELD DATA SHEET										CalCle				
Project Location: 1630 PARK STREET							City: ALMEDA Site #: GOOD CHEVROLET Date: 17: 9 1001								201	Page 44 of 19						
Client: BUESTAD							Operator (s): NICK										2013	raye <u>- m</u>				
						EXTRACTION WELLS												1				
		Well I.D. DPE-1						DPE-3			DPE-2									<u> </u>	Gumul	1
	Screen Interval: From-To (ft)												·						Water Motor	Water		
77	Initial D	itial Depth To Water DTW (ft)																		Readings	Extracted	J
	Vacuum	Air Flowrate	Temp.	Vapor Inlet Conc.	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	units	gals	
	("Hg.)	(cfm)	(degF)	(ppmv)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	12380		
12/9	13	1477	1449	5710	OFF	11.10	13.5	OFF	11.52	12	40		13'			<u> </u>			<u> </u>			
0400	13	43	1451	010	030	11.13		0.70	11.00		0		<u> </u>			<u> </u>	$\vdash$			<u> </u>		-
0260	7.3	410	1466	71070	0.30			<u>0.03</u>	NI OD		2									14190	10.5	1.20
69730		- 1 <u>6 16</u> ,	19131	<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	nL		13.5	AN	INVO	17.			<u> </u>	<u> </u>						1911-10	11010	47-
0900	21	124	144Z	6380			1.5.7			10											<u> </u>	1
1000	21	121	1448	640																	<u> </u>	1
1100	21	123	1449	6970											<u> </u>					<u> </u>		
1200	21	128	1495	7830		VAU			VAL			VAL	,							<u> </u>		1
1600	21	124	1451	8270		12			5			4										1
1000	21	129	1452	8140	6510	12		10390	5		10530	4								14910	2630	890
12/10																				· · · · · · · · · · · · · · · · · · ·		
0001	21	127	1451	8610		12			5			4										1
0800	21	123	1453	8530	6420	12		10210	5		5940	4								15430	3050	1240
1200	21	125	457	8970		12			5			4										
1600	21	124	1452	8410		12			5	L		3										
1000	21	128	1453	BIGO	6170	12		<u>10110</u>	5		5510	4								16180	3800	1270
16/1	7.1	1011	1151	-01.		12					<b> </b>											
000	21	121	1471	1120		10			5			3										
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	12	<u>/// -</u>	- Ton	M. TI	LLET	GAN T	10170	a) C	<u>U OL</u>	$\Sigma_{o}$	<u> </u>		·									-
	U -	1	101				<u> </u>		- no													
			HI	GH VA	CUU	М		]sve	or	X	DPE		FIEL	.D DA	TA S	HEE.	Г			CalCle	an Inc.	
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Project 1	ocation	1630 P	PARK ST	REET			City: /	ALMED.	A		Lov	Site #:	GOOD	CHEVR	OLET		Date:	12, 11,	201 <u>/</u>	Page 54	of 9	
Client: 1	SUESTA	D					-		Operato	r (s):						\ \				1		
										E	XTRA	CTIO	N WEL	LS								
	-	Well I.D.			DPE	-		DPE	-3		DPU	<u>-2</u>									Cumul.	
	Screen	Interval: I	From-To (i	ft)							<u> </u>									Water Meter	Water	
Time	Unit	Air	TOX	Vapor Inlet	Off/On		Stinger	Off/On		Stinger	Off/On		Stinger	Off/On	DTW	Stinger	Off/On	DTW	Stinger	Readings	Extracted	1
	Vacuum	Flowrate	Temp,	Conc.		VAC	Depth		VAC	Depth		VAC	Depth			Depth			Depth	units	gals	1
12/11	( Hg.)	(cim)	(deg⊢)	(ppmv)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	12380		1
	71	12.6	1443	7980		17	107	UNI .		16	<u>ON</u>	146	10			<u> </u>			<u> </u>	<u> </u>		1
2000	21	123	1447	1530	691D	11		10040	5		นดก	14							·	1111-0	5000	100
12/12				1050				10010			-(110					<u> </u>			<u> </u>	Inner	5080	1600
6651	21	128	1451	7410		17			5			4	<u> </u>									
0800	21	124	1452	7230	5120	12		9820	5		146O	4								179100	5520	1190
0930					OFF		<u> </u>	089			DEF										7920	12.0
1030	23	93	1451	5930	ON			ON		<u> </u>	ON								<u> </u>			
1045	23	97	1455	6170	6140	12		8930	5		4140	3							<u> </u>			1
1200	23	95	1453	10020	5010	12		8340	5		397D	3										1
1600	21	128	1451	5970		11			5			3							<u> </u>			1
7000	21	129	1452	6240	5170	11		8410	4		4010	3								18530	4150	1010
12/13																						1
10001	20	132	1449	6510		10			4.			3			_							]
080	19	14-1	1447	6830	5540	9		8670	Н		3910	3								19100	6720	1140
1200	14	143	1443	6670		4			4			3										
1600	19	142	1448	6510		4			4			3										0.0
2000	19	144	1449	<u>k360</u>	5240	1		8430	Ч		3520	3								20240	7860	1.11
12/14	10		1./2	1.110	<u> </u>																L	l
0001	14	148	1452	6110	1020	1		0.0	4		2	3							L		0	- 110 4
0.800	19	21.7	1451	15710	110	<u> </u>		8410	4		5115	2								21520	4140	1420
Comme	nts:	CIIL	- 107	M H	LICA	DA	mpla	TA	KEN	(D)	080	Ve :	TVHIC	Your	N UN	Ir C	.043	x0 fe	or G	EN, MAIN	Γ.	-
	9	IANK	UYU	NITC	2102	7.																-

			HI	GH VA	CUU	М		]SVE	or	X	]DPE		FIEL	D DA	TAS	HEE	Г			CalClea	an Inc.	
Proje Client	ct Locat	ion: <b>1630</b> STAD	PARK ST	REET			City: A	ALMED	<b>A</b> Operato	or (s): 📐	her	Site #:	GOOD AVI	CHEVR	OLET		· Date: _	<u>12,14</u> ,	201	Page <b>6</b> /	rof 19	
										E	XTRA	CTION	N WEL	.LS	- 1				-			
		Well I.	D.		VPE	-1		DPE	-3		DP	E-2									Cumul.	1
	Scre	en Interval	: From-To (	(ft)					1				_			_				Water Meter	Water	
Tim		Depth To	Water DT	N (ft)	0510-	martin	Offeren	050-	datas		0.00		0	0.7/0						Readings	Extracted	1
	e Ur Vaci	um Flowrat	e Temp.	Conc.	Off/On	VAC	Depth	Off/On	VAL	Depth	Off/On		Stinger Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	units	gals	
1-	("H	g.) (cfm)	(degF)	(ppmv)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	12380		
12/1	4				ON	"Ha	13.5	ON	"261	12	ON	"HG	13									
120	010	1 147	1444	5730		9			4			2										
llet	<u>01</u>	142	1451	5570		9	L		Ч			2										
200		148	1453	15140	4530	9	<u> </u>	7640	ч	<u> </u>	2970	2								22410	10090	1230
17/	15	2 1 1						<u> </u>		ļ										<u> </u>		
000		> 15	145	4420	201.0	4		1024	4		21.10	6			ļ							1
00			147	4410	9100	9		6130	9		Hel	1	<u> </u>							23280	10900	1760
120		3 104	1453	4200					4			5						ļ			<u> </u>	
140		0152	1451	14510	(200	4			4		0.00	3	<u> </u>								<u> </u>	
100		0100	1400	14920	0210	10	<u> </u>	<u>1940</u>	0	<u> </u>	1130	12	<u> </u>			<u> </u>			<u> </u>	24365	11985	4
121		2 . 76	11140	140.76			<u> </u>				<u> </u>						<u> </u>			<u> </u>	<u> </u>	- 1977
	2	$\frac{1}{2}$	11478	19930	5000							-				<u> </u>					<b> </b>	82
Va-		$\frac{138}{132}$	1450	17840	5250	10		6700	9		2260	5				<u> </u>				25460	13080	
		0 120	1451	1-10-00						<u> </u>											<u> </u>	1
100	10	7 15	FISS I JUES	470	400	10		1 ( 1) 4			0214	7										ł
121		1 100 //	1100		TOAU	0		000			<u>a</u> sio	2								200550		
		149	1460	11530		<u> </u>															<u> </u>	4
1. an	6 1	2 15	1455	4350	ULUN	9		640	4		21an	7			<u> </u>					ALALIC	111111	1
120		152	1440	uzan		G			ļ (		N 79	<u> </u>		<u> </u>		<u> </u>				21075	114665	{
160	519	5 151	1450	4310		Q	<u> </u>				<u> </u>	<u> </u>										1
Com	ments:	12/15	- UNI	T DF	F FR	M	1015	1017	45		to	Re	WER	CHA	NOK.	FROM	(1)	N +	Ra	। । इ.	L	1
				-					-						-19							-

			HI	GH VA	CUU	M		<b>SVE</b>	or	X	DPE		FIEL	.D DA	TA S	HEET	Г			<b>CalCle</b>	an Inc.
Project L	ocation	1630 P	PARK ST	REET			City: A		A			Site #: 1	GOOD	CHEVR	OLET		Date:	2/17/	201	Page 74	of 19
Client: E	BUESTA	D					•		Operato	r (s): ᡗ	AUT	5						<u>cara tr</u>		. ugo <u></u>	
										E	XTRA	CTION	IWEI	IS						1	
		Well I D			00	E- 1		0.00	=-3		00	E-)			11.1-	z					
	Screen	Interval: I	From-To (	ft)		. 1				-				<u> </u> r	<u>. w</u>	ر 					Cumul. Water
	Initial D	epth To V	Vater DTV	V (ft)								_								Readings	Extracted
Time	Unit Vacuum	Air Flowrate	TOX Temp.	Vapor Inlet Conc.	Off/On		Stinger Depth	Off/On	- <del>DTW</del>	Stinger	Off/On	DIW	Stinger	Off/On	DTW	Stinger	Off/On	DTW	Stinger	unite	aole
	("Hg.)	(cfm)	(degF)	(ppmv)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	12380	gais
12/17					ou		13.5	01		12	20		13	ON		3					
2000	18	153	1455	4230	4570	9		6370	4		2120	3								28165	15785
12/18																					
0001	18	151	1460	4190		9			_4			3									
0%00	18	154	1455	4120	4460	9		6210	4		2090	3								28675	16295
1200	18	151	1450	4160		9			4			3									
1600	18	191	1462	4070		9			5			3									
2000	18	153	1460	4010	4360	9		6170	4		2040	3								29175	16795
12/19																					
0001	18	154	1449	3930		9			4			3									
0800	18	153	1450	3870	4120	9		5760	3		1980	3								29669	17315
1200	18	154	1447	3750	÷.,	9			3			3									
1600	18	153	1450	3630		9			3			3									
1615	14	190	1450	1820		7			2			2		ON	6	3'					
1630	14	193	1459	1408		6			3			t			6						
1645	14	197	1459	1820		6			3			l			3						
0051	14	193	1441	0771		5			2			1	L		5						
1715	14	190	1450	1740		4			2						5						
1730	14	194	1455	0171		4			2						5						
1745	14	196	1449	1730		4			2						5						
1800	14	1960	1450	1680		4			2						5	16'					
Comme	nts: 1	took	UP	hw	- 3	@ 10	600														

				HI	GH VA	CUU	M		SVE	or	X	DPE		FIEL	D DA	TA S	HEET	Г			CalCle	an Inc.
	Project I Client: I	_ocation BUESTA	: 1630 P D	PARK ST	REET			City: A		A Operato	r (s): V	AVI	Site #: 4	GOOD	CHEVR	OLET		Date:	1 <b>2/19</b> /	201_	Page <u>8</u> A	of <u>/9</u>
										_ ·	E	KTRA	CTION	N WEL	LS	( <u>e</u>				_		
			Well I.D.			DPE	- 1		DP	E-3		DP	E-2		Ν	W- "	3					Cumul
		Screen	Interval: I	From-To (	ft)		-								,	<u>.</u>	<u> </u>				Water Meter	Water
		Initial D	epth To V	Vater DTV	V (ft)																Readings	Extracted
	lime	Unit Vacuum ("Hq.)	Air Flowrate (cfm)	TOX Temp. (deaF)	Vapor Inlet Conc.	Off/On		Stinger Depth (feet)	Off/On		Stinger Depth	Off/On		Stinger Depth	Off/On		Stinger Depth	Off/On	DTW	Stinger Depth	units	gals
12/19	1815	14	191	1450	1710	OA)	1	13.6		2	12		(10)	12	(ppinv)	(iii) Z		(ppmv)	(ii)	(leet)	1232	
	1830	14	193	1450	1740		2			2		0.0		12	00	<u> </u>	16					
	1845	14	197	1445	1780		2			2			<u> </u>			3						
	1900	14	~194	1455	1930		2			2			1			7						
	1915	14	197	1450	1860		2			2			i			~7			<u> </u>			
	1930	14	193	1450	19:0		2			2			ι			ž						
	1945	14	197	1449	1960		2			2			1			3					·	
	2000	14	196	1450	1970	3670	2		4340	2		1710	1		1540	3					Sanax	17979
	2100	14	194	1450	1940		2			2		<u> </u>	1			2						10001
	2200	14	196	1449	1870		2			2			1			2						
	2300	14	196	1455	1890		2			2			I			2						
	2402	14	197	1450	1860		2			2			l			2	1					
	12/20																					
	0001	14	196	1460	1820		2			2			1			2						
	0800	14	197	1450	1830	3450	2		4160	2		1520	l.		1390	2					30744	14364
	1200	14	195	1455	1780		2			t			1			2						
	1600	14	197	1450	0171		2			1			1			2	022					
	2000	16	153	1455	2470		3						ų								31224	14444
	12/21				1																	
	0001	16	157	1450	2140		4	flow		ł	41		ч	61								
	0.600	15	158	1455	1780	2030	5	57	2740	N	30	1510	4	46							32410	20030
	Comme	nte*																				

			HI	GH VA	CUUI	М		]SVE	or	X	DPE		FIEL	D DA	TA S	HEET	г			CalClea	an Inc.
Project I	Location	: 1630 F	PARK ST	REET			City: A		A			Site #:	GOOD	CHEVR	OLET		Date:	12/21/	201	Page 9A	of
Client:	BUESTA	D							Operato	or (s): 📝	AVE	9					. –				1
							-			E	XTRA	CTION	N WEL	.LS							
		Well I.D.			DPG	2-1		100	2-3		DP	2-2		H	W-3						Cumul
	Screen	Interval:	From-To (1	ft)		- 1														Water Meter	Water
	Initial D	epth To V	Vater DTV	/ (ft)			r													Readings	Extracted
Time	Unit Vacuum	Air Flowrate	TOX Temp.	Vapor Inlet Conc.	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	units	gals
	("Hg.)	(cfm)	(degF)	(ppmv)	(ppmv)	(ft)	(feet)	(ppmv)	_(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)		_
12/21					91)			01)			av			०९२							
0930	15	142	1450	רודו					0												
0945	15.	147	1449	1706	2040	7	49	2530	0	30	1690	5	61								
1000	15	* 147	1460	1672	1950	7	47	21.50	0	30	1540	6	60								
1015	15	147	1450	1682	1995	7	49	2150	0	30	1440	5	61								
1030	15	149	1450	1630	1990	4	47	2150	0	31	1440	5	60								
1045	15	149	1455	1608	1990	6	49	2130	13	31	1410	5	61								
100	15	147	1450	1637	1980	$\langle \varphi \rangle$	47	2140	0	30	1420	5	60								
1115	15	149	1451	1638	1980	4	47	2130	0	31	1420	5	61								
1130	15	เนา	1450	1593	1980	6	47	2140	0	31	1420	5	41								
1145	15	149	1450	1550	1920	6	47	2580	0	31	1550	5	60								
1200	15	147	1450	1560	1810	4	47	1950	0	31	1810	5	60								
1300	15	149	1450	1610	1790	6	49	1860	0	30	1790	5	61								
1400	15	49	1450	1730	1740	6	47	1860	0	30	1740	5	61								
1500	15	148	1455	1670	1690	6	49	1810	0	31	1670	5	63								
1600	15	149	1450	1640	1620	6	୳ଡ଼	180	0	30	1680	5	6								
1700	15	[5]	1450	1650	1610	(o	47	(da)	0	31	1540	5	63								
1800	15	150	1455	1620	1620	6	49	1540	0	30	1490	5	63		-						
2000	15	149	1465	1630	1610.	6	49	1550	0	31	1470	5	61								
2200	15	151	1450	1610	1540	4	47	1520	0	31	1430	5	let								
2400	15	149	1449	1590	1520	4	49	1510	0	30	14:0	5	63								
Comme	ents:											-									

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			HI	GH VA	CUUI	M		SVE	or	X	DPE		FIEL	D DA	TA S	HEET	Г			CalCle	an Inc.
Project	Location	1630 P	ARK ST	REET			City: A		<b>A</b>	$\sim$		Site #:	GOOD	CHEVR	OLET		Date:	2,24	201 <u> </u>	Page 0A	of 19
Client: I	BUESTA	D							Operato	r (s): <u>V</u>	1550	/N	ICH								
				_						E	XTRA		I WEL	LS	2						
		Well I.D.			DP	E-1		D	PE-	3	DP	E-7	L	r.	1.00-	3					Cumul.
	Screen	Interval: I	From-To (	ft)					1. ju											Water Meter	Water
Time	Initial D	epth To V	Vater DTV	V (ft)	0600	DTW	0	06//0+	DTW	01	0.770	0.77.14								Readings	Extracted
TIME	Vacuum	Flowrate	Temp.	Conc.	OnijOn	VAC.	Depth	Off/On	DIW	Depth	Ott/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	units	aals
	("Hg.)	(cfm)	(degF)	(ppmv)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)		3
12/22					00			00)			ON			off							
0800	15	151	1450	1470	1530	6	53	1470	0	30	1380	5	63								
1200	15	- 151	1450	146	1460	6	51	1380	0	31	1320	5	63								
1360	18	89	1451	1380	1490	7	48	DFT			1374	5	62								
1390	18	81	1461	1420	1490	7	49				1398	5	67								
1400	118	86	1453	1470	1530		45				1391	5	64								
1420	118	85	1452	1490	1530	-	44				1422	6	51								
1500	118	84	1449	15 30	1550	1	48				1437	le	53								
1530	18	81	1448	1570	1550	7	43				1449	٩	54								
1600	18	83	1443	1620	1590		44				1468	le	52								L
1670	18	85	1451	1610	1580	1	41				1471	le	54							L	
1700	18	81	1450	1610	1580	1.	42				1459	Q	51								
1730	18	87	1451	1543	1570		40				1464	5	61								
1900	18	82	1453	1542	1561	6	51				1451	5	63								
18:00	18	86	1451	1574	1553	le	53				1448	5	67								L
1900	16	82	1452	1528	1548	6	57				1437	5	124								
1920	18	8	1449	1552	1576	5	le1				1452	5	68								
1000	10	6	1444	1513	1514	5	64			L	1429	5	62							33780	7,1400
1400	16	86	1451	1437	1560	2	62				1401	5	63								
<b> </b>	<u> </u>						L			L											
		100											Ļ								
Comme	ents: 12	126-	<u>100</u>	- TOTAL	, INU	Et V	APOR	54m	PLE (	9/7	500	TUR	NED	ott	DPE	-3 1	<u>~ {1</u>	<u>R 51</u>	ARGI	<u>= @ 130</u>	<u>5.</u>
TUPN	ED /	AIR	TAL	ar Vi	N AT	- 150	90,					· · _									

			HIG	GH VA	CUUI	N		SVE	or	X	DPE		FIEL	D DA	TA S	HEET	r			CalClea	n Inc.	
Project l	ocation:	1630 P		REET			City: A		4			Site #: (	GOOD	CHEVR	OLET		Date: /	2,23,	201	Page //A	19	
Client: 1	BUESTA	D					-		Operato	r (s): 📐	5.CL									<u></u>		
									-	E	XTRA	CTION	WEL	LS	1							
		Well I.D.			VPE	-1		DPE	-3		TYPE	-7									Cumul.	
	Screen	Interval: I	From-To (1	R)				•	14 - C											Water Meter	Water	
	Initial D	epth To V	Vater DTV	/ (ft)	0.00		Come of	0.00			0.00		dan - vit di							Readings	Extracted	
Time	Unit Vacuum	Air Flowrate	Temp.	Vapor Inlet Conc.	Off/On	0	Lopen	Off/On	DTW	Depth	Off/On	19 <u>69. 1</u>	e program L'accuter	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	units	gals	
	("Hg.)	(cfm)	(degF)	(ppmv)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)			
1423					ON	VAC	FLOW	OFF			CAL	VAU	flad									
0400	1le	107	458	1371	1521	7	49				13/24	5	lel									
0800	14	121	1057	1293	1475	7	41				1375	5	64			_				54520	22140	
1200	14	124	653	1281	1468	7	42	NO			1348	ษ	63									
1300	15	173	1252	1497	1471	7	44	1396	D	101	1321	5	61									1
1600	15	174	1051	1578	1524	7	43	1377	0	103	1306	5	62									1
2000	15	178	653	1632	1567	7	41	1342	0	105	1298	-5	61							35110	2130	
12/24																						1
0001	15	177	651	1581	1531	7	42	1327	0	107	1324	5	63									1
0400	15	175	649	1459	1488	7	41	1304	0	108	1293	5	65									1
0810	15	171	1058	1398	1507	7	44	1281	0	102	126	5	62							35150	23370	1290
1200	15	176	655	1378	1478	7	41	1273	0	104	1244	5	lel						<u> </u>			
1600	15	173	654	130Le	1452	7	43	1258	0	101	12110	5	64							· · ·		1
2000	15	171	651	1284	1443	7	40	1212	0	106	1194	8	63							36480	74100	1370
12/25																					011-0	
0001	15	178	652	1251	1396	7	42	1196	0	105	1173	5	165		<u> </u>				-	<u> </u>		1
0400	15	175	651	1274	1373	7	41	1153	0	102	1148	5	102									1
0900	15	174	453	1226	1328	1	44	1107	0	104	1124	5	61		<u> </u>					37240	14000	1490
1200	15	173	1251	1193	1291	7	43	1086	0	101	1097	5	104						<u> </u>	51010	1000	1
2000	15	11	653	1068	1284	1	45	1048	0	103	1076	5	102	-						37890	76510	huio
																				51013	0000	
Comme	ents:	-							<b></b>													1

			HI	GH VA	CUUI	N		SVE	or	X	DPE		FIEL	D DA	TA S	HEET	Г			CalClea	an Inc.	
Project I	ocation:	: 1630 F	ARK ST	REET			City: A		A	1		Site #:	GOOD	CHEVR	OLET		Date:	2,26,	201	Page 174	Fof 19	
Client: E	BUESTA	D							Operato	r (s):	TUC	•		2742				~				
			ς.			-			_	E	KTRA	CTION	I WEL	LS								
		Weli I.D.			DVE	E-1		TOPE	13		TR	E-2			· · ·						Cumul.	
	Screen	Interval: I	From-To (	ft)				24	1949 - 1949 - 1949 - 1949 - 1949 - 1949 - 1949 - 1949 - 1949 - 1949 - 1949 - 1949 - 1949 - 1949 - 1949 - 1949 -											Water Meter	Water	
Time	Initial D	epth To V	Vater DTV	V (ft)	050	DTM	Louise	0.00			0.00		-							Readings	Extracted	
Ime	Vacuum	Alr Flowrate	Temp.	Conc.	Oπ/On	DIW	Depth	Oπ/On	DIW	Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	units	gals	
	("Hģ.)	(cfm)	(degF)	(ppmv)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	12380		
12/26					DH	VAC.	FLOW	ONS	vre	FLOW	ON	VAL	riad									
0001	15	171	(253	1657	1267	1	41	1093	0	lole	1093	5	64									
0400	15	175	651	1008	1244	1	44	1104	0	102	1058	5	67									
0800	15	773	1252	1031	1723	7	48	1071	0	103	1023	5	62							38240	25860	1000
1200	15	174	1254	1053	1209	7	43	1053	0	101	1001	5	63									
1600	15	177	651	1096	1191	7	44	1027	0	105	498	5	64									
2000	15	176	649	1041	1146	-1	47	1001	0	103	973	5	lel							38870	26490	1980
12/27							<u> </u>			ļ												1
10001	15	571	1247	1007	1158	1	44	968	0	107	952	4	65									1
0400	15	176	653	953	1115	7	46	947	0	106	908	5	63									
0800	15	171	692	478	1096	7	45	921	0	103	964	5	61							39490	27110	1230
VHY	OFF	PER	SEAE	m-1655	DN			OFF			OFF											
1000	20	37	12/24		427		91		0.18			010										
1030	14	24	146		715	1.5	99		0.20			0.09								·		
1100	25	21	619		793	15	98		0,20			0.10										
1105	24	28	681		847	3	81		0.20			0,10										
1135	24	29	lele3		949	3.	87		0.20			0.10										
1255	24	28	658		973	3	85		0,30			0.14										
1210	23	31	654		942	5	64		0.30			0.17								-		
1240	23	33	653		1013	5	63		0.30			0.17										
1310	23	32	1051		1028	5	105		0,30			0.19										
Comme	ents:																					

			HI	GH VA	CUU	M		SVE	or	X	DPE		FIEL	DDA	TA S	HEE1	Г			CalCle	an Inc.	
Project I	Location:	1630 P	ARK ST	REET			City: A		A	1		Site #:	GOOD	CHEVR	OLET		Date:	12,27	201 <u>1</u>	Page 134	of 19	
Client: I	BUESTA	D							Operato	r (s): <u>N</u>	suc.											
										E	KTRA	CTION	WEL	LS								_
		Well I.D.			DPE	4		DPE	3		DPE	-12_									Cumul,	İ 👘
	Screen	Interval: I	From-To (	ft)					·											Water Meter	Water	
Time	Unit	Air	TOX	Vapor Inlet	Off/On	ĐTW	Stinger	Off/On	DTW	Stinger	Off/On	DTW	Stinger	Off/On	DTW	Stinger	Off/On	DTW	Stinger	Readings	Extracted	
	Vacuum	Flowrate	Temp.	Conc.	(nnmu)		Depth (foot)	(0.000)	(4)	Depth	(10,000,0)	5. (A)	Depth	()	(1)	Depth		(11)	Depth	units	gais	1
12/27	( ng.)	(Cint)	(uegr)	(ppiny)	(ppina)	(11)		(ppina)	(1)	(IBOL)	(ppmv)	<u>(</u> 11)	neet)	(ppmv)	(π)	(reet)	(ppmv)	(ft)	(feet)			1
1315	27	39	1051	<u>.</u>	1054	7	43		0.35			0.20										1
1345	22	39	653		1059	7	41		035			0.20										
1415	22	-38	654		1077	1	45		0,40			0.20										1
					OFF						10											1
1420	25	23	658			0,70			0,95		743	1.5	910									
1450	24	26	652			619			1.05		317	1.5	98									
1520	74	12	651			0.65			1.15		343	1.5	97									
1525	25	30	(2)3			0.64		L	1,15		418	3	83					<u> </u>				
1555	127	96	001			0160		<u> </u>	1.20		4年1	2	05									
1015	64	20	1077			0.60		<u> </u>	1.10	<u> </u>	496	2	82									
1200	21	40	651		·	0.55			1.76		70	7	1.7									
1730	71	43	1053			0.55			1.30		72)	5	105									-
					ON			DU			1011		UL V									
1746	17	163	654	852	1174	1	42	652	0	107	743	5	102									1
2000	11	162	653	871	1217	7	410	678	0	109	776	5	61						;	39770	27340	900
12/28						ŀ																
0001	lle	168	651	864	1244	1	47	682	0	101	751	9	61									
0400	16	170	654	921	1268	1	44	699	0	105	784	5	103									1
0800	16	111	1253	1407	1277	1.7	41	703	0	104	792	5	65							40310	27930	820

Comments.

			HI	GH VA	CUUI	M		SVE	or	X	DPE		FIEL	D DA	TA S	HEET	Г			CalClea	an Inc.	
Project I Client: 1	Location: BUESTA	1630 F D	PARK ST	REET			City: A	LMED	<b>A</b> Onerato	r (s). N	TCK	Site #:	GOOD -7(	CHEVR 27-	OLET		Date:	1 <u>2   13</u> 1	201 <u>1</u>	Page /44	of 19	
									opolato	E)	XTRA	CTION	N WEL	LS								
		Well I.D.			DPE	-1		DPE	:3		DPE	-2		<u> </u>							Cumul	
	Screen	interval: I	From-To (	ft)				-												Water Meter	Water	
Time	Initial De	epth To V Air	Vater DTV	V (ft) Vapor lolet	Off/On	ĐŦ₩	Stinger	Off/On		Stinger	0#/0n		Stinger	050-	DTM	China and	0///0-			Readings	Extracted	!
	Vacuum ("Hg.)	Flowrate (cfm)	Temp. (degF)	Conc.	(ppmv)	(ft)	Depth (feet)	(vmqa)	(ft)	Depth (feet)	(ppmy)	(ft)	Depth (feet)	(ppmy)	(ft)	Depth	(nnmv)	DTW (ft)	Stinger Depth	units	gals	
12/28					40	VAC	Flav	ON	Vic	FLOW	on	VAC	FLOW	(ppint)	(11)	(1001)	(ppinv)			1070-		
1200	15	174	651	923	1293	7	43	717	0	101	80/2	5	63									
1600	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$																					
2000	15	<u>178</u>	654	951	1284	7	44	721	0	104	803	5	62							40920	28540	1150
12/29																						
0001	15	178	652	928	1263	-1	45	691	0	105	782	5	61									
0400	15	176	658	897	1251	7	43	674	0	103	773	5	65									
000	17	173	651	871	1233	7	42	653	0	101	768	5	64							41710	29330	1400
1200	15	171	656	077	1208	7	44	61	0	104	742	5	6									
1000	12	116 174	671	000	1196	4	45	643	0	102	717	5	63							1.00.0		
12/30		1 17	657	010	11-11	1	41	UQH [			(070	17	68							42510	29930	1390
0601	16	171	1.64	BUI	1142	7	112	1.18	0	103	737	5	1.6				<u> </u>					
0400	15	177	1:51	8712	1093	1	44	637	6	102	787	5	1.7.									
~	UNIT	OFF	AEL										Carbo									
																		,				
										L												
		14 -																				1
Comme	ents: 17	-170-	- 100	k varo	K 6A	INPLE	DA.	5 Fou	000	5-T	STAL .	Inite		<u>356</u>	DPE	<u>-10</u>	<u>040</u>	, DPI	<u>=10</u>	0405, D	PE-3	
<u>@04</u>	10.																	۳				-

			HI	GH VA	CUUI	M		SVE	or	X	DPE		FIEL	D DA	TA S	HEET	г			CalCle	an Inc.	
Project l Client:	-ocation	: 1630 F	ARK ST	REET			City: A	LMED	A Operator		KCK	Site #: (	GOOD 71	CHEVR	OLET		Date: /	<u>Z 1 70</u> 1	201 <u> </u>	Page <u>154</u>	tof 19	
									Operato	E	KTRA	CTION	I WEL	LS	•	· · · · ·						
		Well I.D.			DPE	-1		DRE	-3		TRE	-2		MW	-1.						Cumul	1
	Screen	Interval:	From-To (	ft)					121											Water Meter	Water	
f There	Initial D	epth To V	Vater DTV	V (ft)	0510-	0784	Oliverat	0///0-	DTM	011	0.510									Readings	Extracted	
	Vacuum ("Hg.)	Flowrate (cfm)	Temp. (degF)	Conc. (ppmv)	(ppmv)	(ft)	Depth (feet)	(ppmv)	(ft)	Depth (feet)	(ppmv)	(ft)	Stinger Depth Ifeet)	(ppmv)	(ft)	Stinger Depth (feet)	Off/On	DTW (ft)	Stinger Depth (feet)	units 17380	gals	
12/30																	(p. p )	()				
0950		5				10,63			9.60			10.89								42770	20390	
130		-				10,54			9,68			10.65										1
						VAC			VAC					DN								1
1215	25	33	651	189		0.01			0.01			<b>Dist</b>										1
1270	25	35	653	241		0.05			0.03			0,05										1
1300	25	37	649	376		0.70			0.03			0.01										
1370	25	39	655	528		0.15			0.09			0.05										
1400	25	38	658	1073		0.15			0.07			0.05										]
1430	25	39	651	1637		0,75			70,0			0.05										
1600	25	38	1053	1728		0.75			0,01			0,05										
1000	25	37	66Z	1793		0.15	ļ		0.07			0.05				<u> </u>				42370	30990	1060
12/31		120	1. 1.	1. 1.	L																	
0001	25	35	657	1852	<u> </u>	075			0,06			0,05							L			
0400	25	31	651	1937		0.75			6.07			0,05										
0600	24	29	454	2013		0.70			0.07			0.04								43630	31250	Star
Ino	12	26	493	1758	611	0:17			0,07			0.05		_		<u> </u>						1
1416	17	61	1.1.	1620	UN 110	1	1100		n 67							<u> </u>						1
1217	77	20	651	00 01	1110		48		0,01			0.05		1870		<u> </u>					<u> </u>	
1616	27.	610	607	1761	1150		47		0.01			0.05		1852		<u> </u>					ļ	1
Comme	ents: 17	2/31	- Toe	K VM	TOL Q	71.45	LE (	fΜ	h1-2	ON:	300.	1007 104	HED 0	IN D	PE-1	Q 13	05.		I	L		1

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			HI	GH VA	CUU	M		<b>SVE</b>	or	X	DPE		FIEL	.D DA	TA S	HEE	г			CalCle	an Inc.	
Project I	_ocation:	: 1630 F	PARK ST	REET			City: A	LMED	A		ł .	Site #: 1	GOOD	CHEVR	OLET		Date:	12:31	201	Page 10	A. 19	
Client:	BUESTA	D							Operato	r (s):	Jul			167-						rage <u>r o</u>	01_1	
			_							E	XTRA	CTION	N WEL	LS						1		
		Weli I.D.	,		DPE	-1		VPE	3		TPE	5-2		MW	1			_			Chanad	1
	Screen	Interval:	From-To (	ft)					14 - C						_		<b></b>		_	Water Meter	Water	
Time	Initial D	epth To V	Vater DTV	V (ft) T vasas laist	050-	(33ma/	Otherson	0///0-	D714											Readings	Extracted	
	Vacuum	Flowrate	Temp.	Conc.			Depth	Un/Un		Depth	Off/On		Stinger Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	units	als	}
link	("Hg.)	(cfm)	(degF)	(ppmv) .	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	12380	guio	
12/31							<u> </u>	off			DFF			ON								1
1400	12	25	652	1392	1007	.7	47		0.21			0,05		1817							1	1
	HAPPy	TEM	YEAR	-2012-																		]
61/01	17	10		1100	0-21	2	4.4															]
0400	16	51	657	1175	374	1	49		0.34			0.1D		1704								
1200	11	51	697	1158	857	6	151		0,35			0,10		1691	<u> </u>					45180	32800	1550
1600	11	702 K/	1056	1077	318	4	52		0.97			1215		1673							L	1
2006	72	69	65	1013	156	6	5		0.79 1 35			0,19		1642								1
0107	1	1.5	11/1	1041	- / [ [	U	77		0177			0,10		1660						46870	33490	4
0000	21.	69	1058	1004	1.93	6	<u>Lu</u>		026			075	_	11 7 7	<u> </u>							4
0406	22	100	1054	9510	6.42	1.	50		0.35			0.20	-	1001							L	4
MACO	1.2	58	1051	973	1077	10	63		0.34			126		1711						111 77 2	1-0.	
1700	22	56	1.52	911	1.57	10	51		0.36		0.1	0.07	-	1700						40110	22340	1091
1600	21	124	654	1298	631	6	52		0.35		831	5	63	1533								
1000	20	132	668	1252	1.49	10	54		0.35		791	5	107	1506						11 920	21.1-	
01/03											T TOE		40	1700						910100	J4550	10000
0001	20	137	653	1227	619	6	51		0.75		728	5	1.4	1487								
0400	19	148	651	1177	594	le	67		035		1073	5	6	14101								
0800	18	164	652	1135	583	12	54		0.35		1221	5	1D	1479						1,1700	36410	1.10
1100	18	163	651	1103	Sel	le	52		0:35		593	5	lal	1391						<u></u>	17-110	1910
Comme	nts: 0	1/02.	-1014	JET GN	DP1	E-2 (	215	30.									<u> </u>					1

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			HI	GH VA	CUU	М		]SVE	or	X	]DPE		FIEL	.D DA	TA S	HEE	Г			CalCle	an Inc.	
Project L	ocation	: 1630 F	PARK ST	REET			City: A	ALMED.	A		,	Site #:	GOOD	CHEVR	OLET		Date:	1,3,	201 Z	Page 17A	of 18	
Client: E	BUESTA	D							Operato	r (s): _L	Kur		-7	47-								
										E	XTRA	стю	N WEL	.LS	21					1		
		Well I.D			DPE	5-1		DPI	5-3		DRE	12		MW	-2						Cumul	1
	Screen	Interval:	From-To (	ft)		-			1											Water Meter	Water	
Time	Initial D	epth To V	Vater DTV	V (ft)	05/0-	DEN	Chinagai	050-	DTM	01									_	Readings	Extracted	
1 IIIIG	Vacuum	Flowrate	Temp.	Conc.	Onion	BIW	Depth	Off/On	DIW	Depth	Off/On	DTW 5	Stinger Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	units	gals	
012	("Hg.)	(cfm)	(degF)	(ppmv)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(গি)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	12380		
0102		1. 11	100		100			OFF	0.02		ON			ON								
1000	10	169	652	1018	551	6	59	<u> </u>	0.99		503	5	63	1343							1	
7000	10	100	1075	1056	567		06		0.25		551	5	let	132						0.1		100
0104	10	167	1001	1031	710	le.	71		0.75		<u>942</u>	5	64	1318						48520	36140	1570
0001	18	167	1.54	1017	556	10	54		0.36		620	6	13	1701		-						1
3400	18	165	1055	977	SIL	6	54		0.35		515	5	101	1743	_							1
0800	18	163	652	923	537	6	51		0.35		507	5	64	12.71						49120	21,010	1130
1200	18	168	651	958	618	6	53		0.35		501	5	(01	1241						11600	500010	1
1600	18	102	652	971	561	6	52		0.35		521	5	103	1257								
1000	18	167	1052	943	647	6	53		0.35		516	5	1.7.	1251						40970	32690	
01/05																				11110	71910	1
0001	18	163	651	967	529	4	53		0.35		511	5	64	1259								
0400	18	161	654	928	551	6	53		0.35		503	5	101	1282								1
0800	18	165	1058	939	529	<u>Le</u>	54		0,37		497	5	63	1253				_		50440	387100	1420
1200	18	167	651	976	558	6	51		0.35		492	5	61	1217						VU D-10	10000	1.1.
1600	18	163	653	952	507	6	51		0.35		499	5	61	1247								
2000	18	164	654	903	523	6	51		0,35		494	5	64	1231						51030	394050	1000
0100												:									00000	
10001	15	165	652	428	542	6	51		0.35		487	5	64	1206								
0400	10	161	651	452	511	le	53		0.35		491	5	64	1191								
Comme	nts:																					1

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			HI	GH VA	CUU	M		<b>SVE</b>	ог	X	]DPE	1	FIEL	.D DA	TA S	HEE	Г			CalCle	an Inc.	
Project	Location	: 1630 F	PARK ST	REET			City: A		A		L.	Site #:	GOOD	CHEVR	OLET		Date: _	Cli de	201 <u>/</u>	Page <u>/8</u>	40f 19	
Client:	BUESTA	D			_				Operato	r (s): N	gue		-7	<u>le7-</u>								
	5									E	XTRA	стю	N WEL	.LS								
		Weli I.D.			DP	E~1		TPE	i-3		DPE	-2		Mh	1-2						Cumul	1
	Screen	Interval:	From-To (	ft)					1943											Water Meter	Water	
Time	Initial D	epth To V	Vater DTV	V (ft)		D-TW	Stingor	0500-	DTM	Chinasa	0///0-	074	L ctu						_	Readings	Extracted	
	Vacuum ("Hg.)	Flowrate (cfm)	Temp. (degF)	Conc.	(vmaa)	(ft)	Depth (feet)		(ff)	Depth (feet)			Depth	(ppmu)	(A)	Depth	Off/On	DTW	Stinger Depth	units	gals	
01/04					<u>, , , , , , , , , , , , , , , , , , , </u>				(	(	())))))))))))))))))))))))))))))))))))))	(14)	(incory	(ppinv)	(11)	(ieet)	(ppmv)	(it)	(1881)	12580		
080	18	1.02	652	917	529	le	52		0.35		487	5	103	1176						61242	2021.0	1100
1200	18	1,63	654	924	507	6	51		035		492	5	104	1147						01140	575000	110 -
1000	18	164	451	893	513	6	53		0.35		478	61	64	1159								
200	18	161	658	915	501	6	53		075		473	5	61	1131		-				67310	39930	1290
01/07																				76010	51155	1
0001	18	145	653	B86	528	6	51		0,35		452	5	61	1146							j	1
0400	18	168	654	892	509	le	51		035		448	5	63	1178								
0800	18	163	654	871	493	6	51		0,35		467	5	63	1151						62970	40590	1270
1200	18	165	651	357	499	6	52		0.35		434	5	63	1118								
2000	18	161	658	882	496	4	51		0.35		451	5	61	1093						53610	41230	1300
01/08						L																
00001	$\ \underline{\mathcal{S}}\ $	167	654	861	478	6	51		0.35		472	5	61	1077								
0400	118	164	651	879	491	Q	51		0.35		478	5	63	1081						1		
0800	ILES I	161	653	852	468	6	52		0.35		421	5	62	1042						54110	41730	INUD
1200	15	1025	658	883	492	9	53		0.3-5		413	5	62	1071								
1000	16	161	652	864	471	4	53		0.35		401	5	62	1093						54690	42310	1080
0107	10	11.0	10	0.21	1.10	1																
10400	10	100	653	861	458	6	52		0.75		376	5	63	1098								
1200	10	166	402	847	461	le	52		0.75		352	5	64	1047						55230	42850	1120
Comm		10.5	- 1	01/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/	277		56		0.55		698	5	64	1023								
081	0, P	112-2	0	0815		<u> MIYN</u>	1000	AS	rou	ישוס	5-1	OTAL	- In	LET	20	800,	DPE-	)@	030	5, DPE-	2. <b>@</b>	

			HIC	GH VA	CUUI	M		SVE	or	Х	DPE		FIEL	D DA	TA S	HEET	Г			CalCle	an Inc.
Project   Client:	Location: BUESTA	1630 P	ARK ST	REET			City: A	LMED	A Operato	r (8): N	Tik	Site #: 1	GOOD	CHEVR	OLET		Date: 4	<u>01,09</u>	201_/	Page <u>19</u>	fof 19
								· · ·	oporato	E)	XTRA	CTION	I WEL	LS	5						
		Weil I.D.			DAG	5-1		DPE	-3		DPE	-2		Mh	-2						Cumul.
	Screen	Interval: I epth To V	From-To (1 Vater DTV	<u>t)</u> / (ft)			· · · ·													Water Meter	Water
Time	Unit	Air	TOX	Vapor Inlet	Off/On	ĐTW	Stinger	Off/On	DTW	Stinger	Off/On	DTW	Stinger	Off/On	DTW	Stinger	Off/On	DTW	Stinger	Readings	Extracted
	("Hg.)	(cfm)	(degF)	(ppmv)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	ifeet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	Depth (feet)	units 123 <b>60</b>	gais
61 09	10	11.0		Rod	1111																
1600	10	164	652	821	441	10	52		0,2		371	5	63	1004						(10.	
	END		ENENT		765	U.	26		0.97		746	<u> </u>	120	101						55710	43630
		:																			
<u> </u>																					
-						*															
			·																		
	[																				
-	l												. <u> </u>								
<u> </u>													·								
												:									
Comme	ents: 0	109	- 100	K VAP	<u>25</u>	AMPL	25	AS	Four	wcg.	Tor	ut	JLET	<u>e11</u>	<u>e45,</u>	MK-	20	Ile5	O, DI	15-201	655
	- e		0.6	NU I	420	ME	TEK	~ 54	> 91	0.	·								<u> </u>	<u></u>	

			ню	GH V	ACUU	M		SVE	or	х	DPE		FIELD	D DA	TA SH	IEET				CAL	CLEAN I	INC.
Project Lo	ocation: 1	630 PAI	RK STRE	ET			City: Al	MEDA		1		Site #: (	GOOD C	HEVR	OLET		Date: 12	105/20	01	(71- Page	4)734-913 e_112:of_	16
Client: B	UESTAD						-		Operator (	(s): 1	TCK									_		
										OBSE	ERVAT	ON W	/ELLS									
WELL	MkJ-1		MW-	2	Mkl-	3	AS	-	VP-1	-	VP-2		VR-3	>								
SCREEN									16 T													
DTW (ft)	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW.	Vacuum	DTW/	Vacuum	DTW	Vacuum	DTM	Vacuum		Vacuum		Vacuum		Vacuum	DTW
	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)
12/05		-																				
1000		827		3:18		8.34		8.41														
12/06	· · ·																					
000		8.02		8.41		8.24		8.43														
1130	)	8.13		8.51		8.28			0.33		0.20		0.10	-								
1230									0,35		0.20		0110				-					
1300					L				0.40		0.20		0.12	<u> </u>								
1350	0.10		0.43		0.02	A		<u> </u>	0.42		0.23		0.12	ļ			L					ļ
1406	0.05		0.45	ļ	0.03				0.44		0.25		0.14		<u> </u>							
1430	0,10		0.44	ļ	0,02			<u> </u>	0.49		0.26		0.12		<u> </u>							
1500	0.10	8.21	0,47	8,71	20.02	8.37			0,44		0.23		0,11									
1530	0.10	8,71	0,44	8.0	0,02	8.39	<u> </u>	<u> </u>	0.43		0.22		0.12			L	<b> </b>		ļ		<u> </u>	 
1600	010	8.24	0.48	8.73	0.02	8,42			0,43		0.28		0.12		ļ	ļ			<u> </u>			
2000	0,13	8.29	0.42	8.77	0.02	844		ļ	0,44		6.12		0,10				<u> </u>					<u> </u>
12/07							L					<u> </u>				L		ļ			<u> </u>	<b> </b>
0001	0.12	8,35	0.40	8.79	0.07	8,47			D.47		0,54		0,12									
0400	0.10	<u>Q.38</u>	0.44	8.83	0,03	8.49		ļ	0.49		0 67		011		<u> </u>							ļ
0806	<b>0</b> ,11	9.19	10,60	9,41	0.03	5,7			0,44		013		012	Ļ			<u> </u>					
0900	0.10		0.12	L	0.01		L	ļ	0.02		0.01		0.04						L			
6930	0.08		0.13	<u> </u>	9.00	ļ			0.015		0.01		0.04						L			
1000	0.00		0.13		0.00				0.014		0.01		0.04									

			HI	GH V	ACUU	M		SVE	or	X	DPE		FIELD	D DA	TA SH	IEET				CAL	CLEAN I	NC.
Project Lo	cation: 1	630 PAF		ET			City: AL	.MEDA		1		Site #:	GOOD C	HEVR	OLET		Date: 12	51712	01	(71- Page	4) 734-913 e ZB of	16
Client: B	JESTAD				_		•		Operator	(s): <u>M</u>	TCK											
										OBSE	RVAT	ON W	/ELLS									
WELL	MW-1		Mht	2	MW-	3	VP-1		VP-Z	2	VP-3	5	Ag-	1								
SCREEN								, .	4													
DTW (ft)	Vacuum	DTW	Vacuum	WTO	Vacuum	עדת	Vacuum	DTW	Vacuum		Vacuum	DTW	Vacuum	DTW/	Vacuum	DTW	Vacuum		Vacuum	DTW	Vacuum	
	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)
12/7		-												_	•							
1030	0.10	· 	0.13		00,0		10,01		0.01		0.04											
1100	0.10		0,13		0,00		0.01		0.01		0.04											
1130	0.10	9,72	0.15	9,58	0.00	8,86	0.01		0.01		0.04	_										
1200	0.10	975	0.15	9.69	0,00	8,97	0.01		0.01		0,04											
1230	0,10	9.76	0.15	9.61	0.00	8.89	0.01		0,01		0.04											
1300	0,10	9,74	0.15	9.63	0.00	891	0.01		0.01		0.04											
1400	0,10	9.17	0.16	9.67	0,00	893	0.01		0.00		0.04											
1500	0,10	9,19	0.15	9.68	0.00	8.97	6.00	Ĺ	0,01		0.04											
1600	0.10	9.83	0.15	9,71	0,00	8.99	10,0		0.01		0.04					L						
2000	0.10	9.81	0.15	9.77	0.00	9.04	0.00		0.00		0.04											
12/8																						
0001	0.10	9, <del>98</del>	6,15	9.83	0.00	9.07	0,0[		DIOL		0,05											
6400	0110	291	0,15	9.89	60,0	7,18	Ð, 00		0.01		0,06		<u> </u>									
0800	0.10	9.97	0,15	994	0.00	9,29	0.00		0.01		0.06											
0830	0,10		0.10		0.06		0.01		0.01		0,05											
0900	0.10		0.10		0.00		D.01		0.00		0.05											
6930	0,10		DilO		0.00		0,01		0.00		0.05											
1000	01,0		0,10		0.00		0.00		0.01		0.05											
1030	0.10		0,10		0,00		0,00		0.00		0.05											
1100	0.10	9,96	010	9.95	0,00	9.27	0.00		0,01		0.05											

			ню	GH V	ACUU	M		SVE	or	_x	DPE		FIELC	D DA	TA SH	IEET	I			CAL	.CLEAN	INC.
Project Lo	cation: 1	630 PAF	RK STRE	EŤ			City: AL	.MEDA	L	. 1		Site #: (	GOOD C	HEVR	OLET		Date: 17	<u>4 8</u> 2(	01 <u> </u>	(71- Page	I) 734-913 ⊨ <u>3</u> 7 of_	76
Client: B	JESTAD								Operator	(s):	TCK											
										OBSE	ERVATI		/ELLS									
WELL	Mid	1	MW-	2	MW-	3	VP-1		VP-Z		VP-3		AG-	1								
SCREEN																						
DTW (ft)	Vacuum	DTW	Vacuum				Vacuum	DTW	Vecuum	DTW	Vacuum	DTW	Vacuum	DTW	Vecture	DTW/	Vacuum		Vacuum	DTM	Vacuum	
	"H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)
12/08		1																				
1130	0.10	9.99	0,10	991	0.00	9,29	0.00		0.01		0.05											
1200	0.10	10.03	0.10	9.99	0.00	9.31	0.00		0.00		0,05											
1230	0.05	10.01	0.10	10,00	0,00	9.30	0.00		0,01		0.04											
1300	0.05	10,03	DIID	10.02	0.00	9.33	0,00		0,01		0.05											
1400	0.05	10.07	0.10	10,03	0.00	9.34	0.00		0.00		0,04											
1500	0.06	10.08	0.10	10.04	0190	9.37	0.00		0.01		0.04											
1600	0.10	10,06	0.05	10.03	0,00	9.36	0.00		D.01		0.03											
2000	0.05	10,09	0.10	1007	0.00	9.31	0,00		0.01		0.03											
12/9																	йł,					
0001	0.1D	10.05	0,05	10.01	0.00	9,33	0.00		0.01		0.03											
0400	0.10	10.08	0.10	10,04	0.00	9.35	0,00		0.01		0.03											
0800	0.10	10.01	0,05	10.01	0.00	9,39	0.00		0.01		0.04											
0900	0.08		0.08		0,01		0.30		015		0.07											
1000	0,07		0.09		0.01		0.35		0.15		0.05											
1100	0,10		0.07		0,01		0,35		015		0.09											
1200	0.15		0,11		0.00		0.40		0.20		0.15											
1600	0,10		0.10		0.00		0.50		0.25		0.15											
2000	0.10		0.10		0,00		0.55		0.30		0,70											
											I											

				HIC	GH V	ACUU	Μ		SVE	or	х	DPE		FIEL	D DA	TA SH	IEET				CAL	CLEAN	INC.
Pro	ject Lo ent: Bl	cation: 1	630 PA	RK STRE	ET			City: Al	LMEDA	Operator		TUK	Site #: (	GOOD C	HEVR	OLET		Date: 1	<u>2   10</u>   2	01 <u>/</u>	<i>(71</i> Pag	4) 734-913 e <u>48</u> of _	7 16
Unit										Operator	OBSE	RVAT	ON W	/ELLS		<u>.</u>							
WE		MW	-1	MW	2	MW	-3	VP-	1	VP-2		VP-3	5	AG	-1								
SC	REEN																						
	W (ft) Time	Vacuum	WTG	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW
		"H₂O	(ft)	"H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H₂O	(ft)	"H₂O	(ft)	"H <sub>2</sub> O	(ft)						
12	10		-																				
0	300	0,15		0.15		0.00		0.55		0.30		0.24											
2	ØĈ	0.15		0.20		0.00		0.55		0.30		0.24											
12	/11		Ł	2																`			
0	300	0,20	-	0.20		0.00		0.55		0.32		0,26											
2	$\infty$	0.20		0.25		0.00		260		0.28		0.26		L					ļ				
12	/12		<u> </u>															ļ	Ļ	ļ	<u> </u>	<u> </u>	ļ
0	860	0.20		0.25		0.00		0.60		0.30		0.24		<u> </u>						<b>[</b>			<u> </u>
17	100	0.20		0.26		0.00		0.62	ļ	0.32		0.28			ļ		<u> </u>		<u> </u>	<u> </u>		<u> </u>	<b> </b>
20	000	0.20	<u> </u>	0.25		0,00		0.60	<u> </u>	0.35	╞───	0,30		<u> </u>	<u> </u>							<u> </u>	<b> </b>
12	413		ļ									. 10			<u> </u>		<u> </u>				<u> </u>	<u> </u>	
0	zoc	0.20		0.25		0.00		0.60	<b>_</b>	0:25	<u> </u>	0,20		ļ		<u> </u>				[	<u> </u>	<u> </u>	
12		0.25	<b> </b>	0.20	ļ	°, 00		0.55		0,30		0,30					├						
	<u>114</u>	4 - 1		- 21				- (0		0 16		020				<u> </u>						├──	──
05	<u>300</u>	0.05		0.05	· ·	0.00		0,20		0.20		0,50						<u> </u>				<u> </u>	
		0.00		0.00		0,00		0.49		0.20		0.07		<u> </u>	-			<u> </u>			+		┣──
	- <u>117</u>	020		070	<u> </u>	6.00	<u> </u>	016		0 2 0		076		<u> </u>			<u> </u>						╀───
1	200	0.20		0.20		0.00		046		0.30		0.30						<u> </u>					┼──
	000	0.20	,	1.20		0.00		0.45		0.75		0.20										<u> </u>	+
1	<u>2000</u> 2010	0.20		00,00 D 10		0.00		0.60		10.50 13 ZE	1	0.70										· · · ·	+
	<u>50</u>	10.30		<u>Ch d</u>		10.00	L	10.00	1	10.00		ليان ولي				I		·	<u> </u>		L	<u> </u>	

			HIC	SH V	ACUU	M		SVE	or	Х	DPE		FIEL	D DA	TA SH	IEET				CAL	CLEAN	INC.
Project Lo	ocation: 10	630 PA	RK STRE	ET			City: Al	.MEDA				Site #: (	GOOD C	HEVR	OLET		Date: 13	17/2	01	(71- Page	4) 734-913 e <u>5 B</u> of _	1b
Client: B	UESTAD					10			Operator	(s): <u>N</u>	IC.K											
										OBSE	ERVATI	ON W	/ELLS									
WELL	MW		MW-	2	Mw/	-3_	VP-	Market State	VP-	2	VP-	3	AS-	-								
SCREEN									33													
Time	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW
	"H₂O	(ft)	"H₂O	(ft)	"H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H₂O	(ft)
12/17		-																				
0800	0.20	1	0.30		0.00		0.55		0.32		0.30											
2000	0.25		0.20		0.00		0.50		0.30		0.30											
12/18			- 11 -																			
0900	0.30		0.25		0.00		0.50		0.30		0.30											
2000	0.35		0.25		0-00		0.50		0.30		0.30				L					<u> </u>		<u> </u>
12/19													L	<u> </u>								<u> </u>
0800	0.40		0.25		0.00		0,50		030	L	0.30				<u> </u>		<u> </u>				<u> </u>	<b> </b>
1615	0.40		0.25		ON	<b> </b>	0.60		0.35		0.30		<u> </u>			ļ	<u> </u>				<u> </u>	
1630	0-41		0.25				<u> </u>						<u> </u>	<u> </u>							<u> </u>	
1645	0.45		0.25		<b> </b>		0.60		0.35		0.30		<u> </u>		<u> </u>		<u> </u>				<u> </u>	
1700	0.45		0.25		<u> </u>		0.60		0.35	<u> </u>	0.30		<u> </u>	<u> </u>	<u> </u>						┝──	──
1716	0.45		0.25		<u> </u>		0.60		0.35	<u> </u>	0.30				<u> </u>	<u> </u>	<u> </u>				├──	
130	0.45		0.25		─	<u> </u>	0.60		0.35		0.30						<u> </u>			<u> </u>		<u> </u>
1745	0.45		0.25				1.60		0.35		0.30										<u> </u>	
1900	0.45		0.25		· · · ·		0.60		0.35		0.30											
1815	0.43		0.25				0.60		0.35	<u> </u>	0.50								┣───			╂──
1830	0.44		0.25				0.00		0.35		0.00										╂───	╂───
1845	0,45		0.25				10.60		0.50		0.30										╂───	
1900	0.45	1	0.25		╂──		0.60		0,35		0.30										├──	+
[[~[]]	0.72		0.45				0.00		Q <b>.,,,</b>		10.00		1	1			1			L	L	

 $\sim$ 

			ню	GH V	ACUU	M		SVE	or	x	DPE		FIELI	D DA	TA SH	IEET				CAL	.CLEAN I	INC.
Project Lo	cation: 1	630 PA	RK STRE	ET			City: AL	.MEDA		_		Site #: (	GOOD C	HEVR	DLET		Date: <u>1</u> 2	. <b>19</b> 1 20	01 <u> </u>	(71- Page	I) 734-913 ∋ 050 of	16
Client: B	JESTAD								Operator	(s): 🚺	AVIG									-		
										OBSE	RVATI	ON W	/ELLS									
WELL	MW	-	MIN	2	MW-	3	VP-1		VP-2		VP-3	>	A5-	1								
SCREEN																						
DTW (ft)	Vacuum DTW															Vacuum	DTW	Vacuum	DTW			
	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	POL	FLOW	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)
12/19		4			OFF																	
1930	0.45		0.25				0.60		0.35		0.30											
1945	0.45		0.25				0.60		0.35		0.30											
2000	0.45-	-	0.26				0.60		0.35		0.30											
2100	0.45		0.25				0.60		0.35		0.30											
2200	0,45		0.25				0.60		0.35		0.70											
1300	0.45		0.25				0.60		0.35		0.30											
2400	0.45		0.26				0.60		0.35		0.30			1	L	L						ļ
12/20			1																			
0400	0.46		0.25				0.60		0.35		0.30											
0800	0.40		0.25	<u> </u>	<u> </u>		0.55		0.35		0.30						L					
2000	0.40		0.25				0.65		0.30		0.30					ļ	<u> </u>		1			<u> </u>
12/21			ļ.,											ļ				<u> </u>			<u> </u>	<u> </u>
0800	0.40		0.25				0.55		0.31		0.30						ļ					<u> </u>
0930	0.52		0.40				0.50		0,40		0.55		B	5			ļ					
0945	0.50		0.35				1.45		0.70	L	0.55	<u> </u>	8	5								
1000	0.45		0.35				1.45		0.70		0.55		8	5			i					
1015	0.45		0.85				1.45		0.70		0.55		8	5		<u> </u>						
1030	0.45		0.35				1.45		0.70		0.55		8	5								
1045	0.45		0.35				1.45		0.70		0.55		8	5								
1100	0.45		0.35				1.45		0.70		0.55		8	5			<u> </u>					

			ню	SH V	ACUU	M		SVE	or	х	DPE		FIEL	D DA	TA SH	IEET				CAL	.CLEAN I	INC.
Project Lo	cation: 1	530 PA	RK STRE	ET			City: Al	.MEDA	1	_		Site #: (	GOOD C	HEVRO	OLET		Date: 12	-121/2	01	(71- Page	l) 734-913; ∋ <u>[18</u> of _	16
Client: B	JESTAD								Operator	(s): V/	WIS											
										OBSE	RVAT	ON W	<b>ELLS</b>				_					
WELL	MW-		MIN	2	MW-	3	VP-1		VP-Z		VP-3	)	A5	-1								
SCREEN			<u> </u>			··· - <u>-</u>					· ·								<b></b>			
Divv (π) Time	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vetter		Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW
	"H₂O	(ft)	"H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H₂O	(ft)	"H₂O	(ft)	"H <sub>2</sub> O	(ft)	PSI	FLOW	"H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H₂O	(ft)
12/21		-													•							
1115	0.46		0.35				1.45		0.70		0.55		7	6								
1130	0.45		0.35				1.45		070		0.55		ר	la								
1145	0.45-	-	0.35				1.45		000		0.50		7	le								L
1200	0.45		0.35				1.45		0.70		0.50		7	le								
1300	0.45		0.36				1.45		0.20		0.45		7	6								<b>_</b>
1400	0.45		0.36				1.45		0.70	<b></b>	0.45		7	6			<u> </u>					ļ
1500	0.45		0.35			<u> </u>	1.45		070		0.45		7	<u>le</u>								<u> </u>
1600	0.45		0.35				1.45		0.70		0.44		7	6			<u> </u>		<u> </u>			<u> </u>
1700	0.45		0.35		ļ		1.44		0.10	<u> </u>	044		17	6		<u> </u>		-	<u> </u>		<b> </b>	ļ
1800	0.45		0.35	ļ	ļ		1.44		0.70	<u> </u>	0.44		7	6			<u> </u>		ļ			<u> </u>
1900	0.45		0.35		<u> </u>		1.44	<b>_</b>	0.70		0.45	<u> </u>	-7	<u>le</u>		<u> </u>	<b> </b>	ļ	N.		<u> </u>	<u> </u>
2000	0.45		0.35				1.44	ļ	070	ļ	0.44	<u> </u>	7	6		<b> </b>			<u> </u>		<u> </u>	<u> </u>
2200	0.44		0.35	<u> </u>		<u> </u>	1.44		0,70	<u> </u>	0.4H		6	17		<u> </u>	<u> </u>	<b> </b>	<u> </u>		<b> </b>	<b>_</b>
2400	0.44		0.35	 	<b> </b>	<u> </u>	1.44	<u> </u>	0.70	<u> </u>	0.44		6	7		<u> </u>			<b> </b>		<u> </u>	<b> </b>
12/22					 	ļ			-								<u> </u>	ļ			<b>[</b>	_
0800	0.44	ļ	0.35	ļ			1.44		0.70		0.44		6	1		<u> </u>	<u> </u>			<b> </b>	<u> </u>	┢───
1200	0.45		0.35		<u> </u>	<u> </u>	1.41		070	<u> </u>	0.44	<u> </u>	le	1			<u> </u>		<b></b>		<u> </u>	<b>_</b>
1300	0.44		0.25	ļ	<u> </u>	<u> </u>	0.55	<b> </b>	0.35		0.35	<u> </u>	OFF	ļ			ļ	L	<u> </u>			<u> </u>
1330	0.43		0.25		<b> </b>		0.55		0.40		0.35			ļ		<u> </u>	<u> </u>				<u> </u>	<u> </u>
1400	0.43		0.25				0.60		0.35		0.30	<u> </u>					<u> </u>					

			ню	SH V	ACUU	M		SVE	or	х	DPE		FIELD	D DA	TA SH	EET				CAL	CLEAN I	NC.
Project Lo	cation: 1	630 PA	RK STRE	ET			City: Al	.MEDA		1		Site #: (	GOOD C	HEVR	OLET		Date: 12	- 1 <u>22</u> 1 20	01	(714 Page	BB of	16
Client: B	UESTAD								Operator	(s): <u>N</u>	<u>rcl</u>											
										OBSE	RVAT	ON W	<b>/ELLS</b>									
WELL	MIN-	1	MW-	2	MW	3	VP-1		VP-Z	-	VP-3	)	145	-1								
SCREEN															·							
DTW (ft)	Macuum	DTM/	Vacuum	DTW.	Vacuum		Vacuum	DTW	Vacuum	WTO	Vacuum	DTDA	Vecuum		Vecuum	D134/	Vacuum	DTM	Vanum	DTM	Maguum	DTDAL
	"H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H₂O	(ft)	"H₂O	(it)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H₂O	(ft)
12/22		-													, .							
1430	0.43		0.25				0.65		0.40		0.35		40									
1500	0.44		0.35				1.35		0.60		0.40		le	٦								
1530	0.44-	r	0.35				1.35		0.60		0.45		7	le_								
1600	0.44		0.35				1.35		0.65		0.40		8	5								
1630	0.45		0:35				1.40		0.60		0.40		8	5								
0051	0,44		0.35				1.40		0.60		0,40		8	5								
1730	0.44		0.35				1.40		0.65		0.35		8	5								
1800	0.45		0.35				1.40		0,65		0.35		8	5								
1830	0.44		0.35				1.45		0.65		0.35		8	5								<u> </u>
1900	0.45		0.35				1.45		070		0.35		7	6								
1930	0.45		0.35				1.45		07.0		0.35		7	le					A,			
2000	0.44		0.35		ļ		1.45		670		0,30		8	5				L				
12/23	, .		ļ																			
0001	0.40		0.35		ļ		1.45		0.70		0.30		8	5								<u> </u>
0400	0.43		0.35				1.40		0.70	ļ	0.30		8	5			<u> </u>					
0800	0.41		0.35				1.45		0.70		0.35		8	5								
1200	0.40		0.35				1.45		0,70		0.30		8	5								
1300	0.36		0.30				0.95		07.0		0,30		OFF	OFF								
1600	0.35		0.24			1	0.90		0.100	1	0.30											
1000	0.35		0.20				0.90		0.55		0.24											

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			HIC	SH V	ACUU	M		SVE	or	Х	DPE		FIELD	DA	TA SH	EET				CAL	CLEAN I	INC.
Project Lo	cation: 16	530 PAI	RK STRE	ET			City: AL	.MEDA	<b>k</b>	. [		Site #: (	GOOD C	HEVR	OLET		Date: 12	-124/20	01_	(714 Page	96 of	16
Client: Bl	JESTAD								Operator (	(s): <u>V</u>	Ub											
										OBSE	RVATI	ON W	/ELLS									
WELL	MW-	1	MW-	2	MILL-	3	VP-1		V7-2		VP-3		As.	4								
SCREEN																						
DTW (ft)	Vanum	101710/	Vacuum	DTW	Vacuum		Vacuumi		Vacuum	WTO	Vacuum	DTW/	Vacuum	DTW	Vacuum	ארדת	Vacuum	WTO	Vacuum		Vacuum	DTW
Inne	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H₂O	(ft)	"H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)
12/24		•			OFF								OFF									
0001	0.35	_	0,20		1.11		0.36		0.55		0,25											
0400	0.35		0.20				0.85		0.55		0.25											
0200	0.36-	•	0.26				0.80		0.55		0.25											
1700	030		0.25				0.80		0.55		0.25											
100	0.30		0.25				0.7.5		0.55		0,30									L		
100	0.30		0.20				0.75		0.55		0.25											
1416																L						$\square$
0001	0.75		0.25				0,75		0.55		0:30								L		L	<u> </u>
0400	0.35		0.24				0,65		0.50		0.30											
Au	0,30		0.25				0.65		0.40	L	0.25											
1200	0,35		0.25				0.70		0,50		0.24								N.			<u> </u>
1600	0.30		0.30				Diles		0.45		0.26					L	L		<u> </u>			L
2000	0.35		0.25				Dilas		0.45		0.25											
12/200											<u> </u>									<u> </u>		
0001	0.30		0,30				0.60		0.46		0.25											
0400	0.35		0,30				0,65		0.50		0.25											
0800	0.30		0.30				0.65		0.60		0.25											
1200	0,30		0.25				0.60		0.60		0.26											
1600	0.35		0.25				0.60		0.45		0.30											
1000	0.30		0.25				OileO		0,50		0.25											

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			HIC	SH V	ACUU	M		SVE	or	х	DPE		FIELD	D DA	TA SH	IEET				CAL	CLEAN	INC.
Project Lo	ocation: 16	630 PAI	RK STRE	ET			City: Al	.MEDA			al	Site #:	GOOD C	HEVR	OLET		Date: 10	1 <b>71</b> /2	01 <u>1</u>	(71- Pag	1) 734-913 • <b>10B</b> of	16
Client: B	UESTAD								Operator	(s): N	OL											
										OBSE	RVATI	ON W	VELLS									
WELL	MH-		MW-	2	MW-	3	VP-1		VP-Z		VP-3	1	A5-									
SCREEN									<u></u>						-							
Time	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTV
j	"H₂O	(ft)	"H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)
12/27		-1			OFF								OFF									
0061	0.35		0.30				0.54		0,50		0,30											
0400	0.35		0.25				0.55		0.50		0.30											
0900	0.30-	*	0.25				0,55		0,44		0.70											
0846	0.05		0.05				0.10		0.20		0.10											
0915	8		Ð				-0-		Ð		-9-											
1000	0.18		0.70		0.00		0.80		0.40		0.20											1
1030	0.20		0.90		0.04		0.85		0.41		0.15											
100	0.20		0.90		0.04		0.80		0,40	2	0.15											
1105	0.20		0.95		0.04		1.20		0.56		0.26											
1135	0,20		0,95		0.05		1.30		0,60		0,25											
1205	0.20		0,95		0.05		1.30		0.60		0.25								$-\chi$			
1210	0.30		1.10		0.06		1.70		0.80		0.35					-						
1240	0.30		1.10	l	0.06		1.75		0.95		0,40											
1310	0,30		1.10		0,07		1.00		0.95		0.45											
1315	0.35		1:0		0.07		1.85		1.05		0,55						8					
1345	0.35		1.10	L	0.01		1,90		1.10		0.55											
1415	0.35		1.10		0.07		1.90		1.10		0.55											
1420	0.35		0.10		0.00		0,90		0,60		0.20											
1450	0.35		0.60	L	0.00		0.30		0.45	ļ	0.20											
1520	0.30		0.35		0,00		0,65		0.35		0,15											

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		HIGH VACUUM				M		SVE	or	х	DPE		FIELD	) DA	TA SH	EET				CAL	CLEAN I	NC.
Project Lo	cation: 10	530 PAI	RK STRE	ET			City: AL	.MEDA		1		Site #:	GOOD C	HEVR	OLET		Date: 12	-1271 21	01_1	(71) Page	4) 734-913] ∋_ <u>IIB</u> of_	lb
Client: B	JESTAD								Operator (	<sub>(s):</sub>	ick								-			
										OBSE	ERVATI	ON W	/ELLS								_	
WELL	MW-		MIN-	L	MW	3	VP-1		VP-Z		VP-3	-	145	4								
SCREEN									- 4 <sup>1</sup> -						-							
DTW (ft)	Maguum	101114/	Maguum	DTM	Vaguum		Vacuum		Vacuum		Vacuum		Vacuum	INTRO 1	Vacuum	D'TW/	Vacuum	DTW	Vacuum	DTW	Vecture	
Time	vacuum "H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)
12/27		-											2FF									
1525	0.30		0.35		0.00		0.44		0,24		0,10											
1555	0.25		0,70		0.00		0,40		0.20		0.05											
1625	0.25-	-	0.25		0.00		0.24		0,10		0.04											
1630	0.20		0.20		0.00		0.20		0.05		0.00											
1700	0,15		0.15		0.00		0.16		0.05		0.00											
1730	0.15		0,15		0,00		0,15		0.05		0.00											
1745	0,35		0.35		0.00		0.15		0,05		0.00						<u> </u>		<u> </u>			
2000	0,30		0.35		0.00		0,30		0.25		0.05		<u> </u>									
12/28																						
0001	0.30		0.34		0.00		0.36		0.30		0.10											
0400	0,30		0.30		0.00		0.40		0.35		0119								$\sim \Lambda_{\rm c}$			
6600	0.35		9.30		0.00		0.40		0.36	1	0,15						n)					
1200	0.75		0.30		0.00		0,40		0.30		0.20											
1600	0.30		0.30		0.00		0.40		0.35		0.20											
2000	0.30		0.35	-	0.00		0.45		0.30		0.25			ļ								
12/29																						
0001	0.35		0,70		0.00		0,45		0.35		075											
0400	0.35		0.70		0.00		0.45		0.35		0.30											
0800	0.35		0:30		0.00		0.45		0.35		0.30											
1200	0.30		0.35		0.00		0,60		0,40		0.30											
Comme	nts'																					

HIGH VACUUM	SVE or	x	DPE	FIEL
Project Location: 1630 PARK STREET	City: ALMEDA			Site #: GOOD

LD DATA SHEET

Date: 12,29, 2011

CALCLEAN INC.

(714) 734-9137 Page <u>12B</u>of <u>16</u>

Client:	BUESTAD

Operator (s): NECK

Site #: GOOD CHEVROLET

										OBSE	RVATI	ON W	/ELLS									
WELL	Mhi	-1	MW.	-7	MW	3	VP-1		VP-Z		VP-3		A-5-1									,
SCREEN															·							
DTW (ft)																						
Time	Vacuum "H <sub>2</sub> O	(ft)	Vacuum "H <sub>2</sub> O	(ft)	Vacuum "H₂O	(ft)	"H <sub>2</sub> O	(ft)	Vacuum "H₂O	(ft)	Vacuum "H₂O	(ft)	vacuum "H₂O	(ft)	Vacuum "H <sub>2</sub> O	(ft)	Vacuum "H₂O	(ft)	"H <sub>2</sub> O	(ft)	Vacuum "H₂O	(ft)
12/29		•											OFF									
1600	0.30		0.35		0,00		0,50		0,40		0,30											
2000	0,30		0.35		0,00		0.50		0.40		0,30											
12/30		r	- 1																			
0001	0.35		0,30		0,00		0.50		0.40		0.35											ļ
0400	0.35		0.35		0.00		0,50		0.40		0.35											
0930		9.49		9.52		9.21																
1130		9.43		9.86		9.25												_				
1230	0.00		ON		0,00		0.10		0,02		0.05											
1300	0.15				0.05		0,55		0.42		0,15											
1330	0.10				0.05		0.55		0,40		0.15											
1400	0.10				0.06		0.60		0.45		0.15						12			_		
1430	0.10				0.06		0.60		0.45		0.20											
1600	0.10				0.05		0.60		0.45		0.20											
2000	0.10				0.05		0,60		0.45	1	0.20											
12/31																	÷					
0001	0,10				0.05		0.60		0.45		0.15											
0400	0.15				0.05		0.60		0.50		0,15											
0800	0.15				0.05		0.60		0.50		0.20											
1200	0.15				0.05		0.60		0.50		0.20											
1315	0.25				0.05		0.75		0.50		0.20											

		HIGH VACUU						SVE	or	х	DPE		FIELD	D DA	TA SH	IEET	1			CAL	CLEAN I	INC.
Project Lo	ocation: 1	630 PAI	RK STRE	EŤ			City: Al	.MEDA				Site #: (	GOOD C	HEVR	OLET		Date: /2	:, <b>3)</b> ,2	01	(714 Page	4) 734-913 a <b>IBB</b> of J	Ĩh -
Client: Bl	UESTAD								Operator	(s): NT	UL											- <b>-</b> -
										OBSE	ERVATI	ION W	/ELLS							•		
WELL	MW-	1	MW	r	MW	3	VP-	!	VP-Z	-	VP-3	>	AS	-1								
SCREEN									3.													
DTW (ft)	Vacuum	DTW	Vacuum	WTC	Vacuum	WTO	Vacuumi		Vacuum	DTW	Vacuum	DTW	Vacuum	DTTM/	Vecuum	DTW	Vacuum	DTM	Vaouum		Vanuum	DTM
	"H₂O	(ft)	"H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)
12/31		-	40																			
1415	0.25				0.05		0.75		0,55		0.20											
1515	0.25				0.05		0.75		0.65		0,20											
1600	0.25	-			0.05		0.75		0.55		0.25											
01/01																						
0400	0.25				0.06		0.75		0,46		0.25											
0800	0.25				0.06		0.80		0.55		0.25											
1200	0.30		·		0.05		0.80		0.60		0.30											
1600	0.30				0.05		0.80		0,60		0.30											
2000	0.30				0.05		0.80		0,60		0.30											
01/02													<u> </u>									
0001	0,30				0.05		0.85		0,60		0.35						<u> </u>					
0400	0.30		<u> </u>		0.05		0.85		0.65		0.75											
0800	0.30				0.05		0.85		0.65		0.35											
1200	0,30		· ·		0.05		0.85		0.65		0.35											
1600	0.30				0.00		0,70		0.60		0.30											
2000	0.30				0.00		010		0.55		0,30											
0103																						
0001	0.30				0.00		0.65		0,50		0.25											
6400	0.30				0.00		0.65		0,50		0.25											

			ню	GH V	ACUU	М		SVE	or	х	DPE		FIELD	D DA	TA SH	EET				CAL	.CLEAN I	NC.
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Client: B	UESTAD						-		Operator	(s): <u>H</u>	SCK									-0		
										OBSE	ERVATI	ON W	/ELLS	-						-		
WELL	MW	1	MIN	-2	MINT	3	VP-1		VP-Z		VP-3	1	15-	1								
SCREEN																						
DTW (ft)	Vacuum	WT0	Vacuum	DTM	Vacuum		Voourum	0734/	Voouum	DTM	Vanum	DTM	Maguni	DTM	Manuum	DTM	Manura	DTH	Manuar	DTM		DTH
1 mile	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	vacuum ″H₂O	(ft)
0./03		-	ON										off									
0800	0.25				0.00		0,65		0,50		0,25											
1100	0.25				0.00		0.6		0.50		0.26											
1500	0.25-	-			0,00		0195		6.50		0.25											
1600	0.25				0.00		0.65		0.50		0,25											
2000	0.25				0,00		0.65		0.50		0,25											
01/04										<u> </u>		L										
0001	0.25,				0.00		0.65		0.50		0.25											
0400	0.25				0.00		0165		0.50		0.25											
0800	0.25				0,00		0.65		0.50		0.25											
1200	0.25				0.00		0.65	<b></b>	0.60		0,25											
1600	0.25				0.00		0.65		0.50		0.25								N.			
2000	0.25				0,00		0.65		0.45		0.70											
01/05										1												
1000	0.25		Ē		0,02		0.70		945		0.30											
0400	0.25				0.02		0,10		0.45		0.30											
0800	0.25		· · ·		50.0		0.70		0.45		0.30											
1200	0.25				0.07		0.75		0.50		0.35											
1600	0.25				50.0		010		0.50		0.36											
2000	0.25				0.02		0.65		0.50		0.35											
Comme	nts:			_																-		

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Project Lo	cation: 10	630 PAF	RK STRE	ET			City: AL	.MEDA		. 1	- 11	Site #:	GOOD C	HEVR	OLET		Date: 0	1,009,20	D1	(71- Pagi	1) 734-913; в <u>15</u> 8of_	16
Client: B	JEŜTAD								Operator	(s): <u> </u>	ICL									_		
										OBSE	RVAT	ON W	/ELLS									
WELL	MW	~}	MW	·Z	MW	-3	VP-1		VP-Z	/	VP-3	>	As	-}								
SCREEN									<u></u>						,							
DTW (ft)	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum		Vacuum	DTW/	Vacuum	DTW	Vacuum	DTM	Voouum	DTM
	"H <sub>2</sub> O	(ft)	"H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)
01/06		4	ON									-	OFF									
0001	0.30				0.02		0.70		0.45		0.95											
0400	0.30				0,02		0.70		0.50		0.35											
0800	0.30-	-			0.04		0.70		0.50		0.35											
1200	0.30				0.04		6.70		0.50		0.35											
1600	0.30				0.04		0.70		0.64		0:40											
2000	0,30				0.04		0.70		0.55		0.40											
0107																						
0001	0,30				0.04		01.0		0.60		0.36											
0400	0,70				0,06		0.10		0,50		0.40											
0800	0.35				0,06		0.75		0.56		0.35											
1200	0.35				0,04		0.75		0.55		0,40								$\sim$			
2000	0.35				6,06		0.75		0.60		0.35											
0108	,																					
0001	0.35				0.08		0.70		0.60		0,35											
0400	0.36				0.08		0.70		0,60		0.35											
0800	0.35				0,08		0.75		0.55		0.46											
1200	0.35				0.08		0.75		0.55		0.35											
2000	0.35				0,08		סרס		0.60		0.40											
01/09																						
0400	0.75				0.08		0.75		0,60		949											

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			ню	GH V	ACUU	M		SVE	or	x	DPE		FIELI	D DA	TA SH	EET				CAL	CLEAN I	INC.
Project Lo	ocation: 10 UESTAD	630 PA	RK STRE	ET			City: Al	.MEDA	Operator	(s): N	tck	Site #:	GOOD (	HEVR	OLET		Date: 01	<b>9</b> <sub>1</sub> <b>9</b> <sub>1</sub> 2	01 <u> </u>	(71- Page	4) 734-913 • <u>16</u> 7 <sub>0</sub> f	16
					· · · · ·					OBSE	RVAT	ION W	/ELLS						<u></u>			
WELL	MW-	1	MW.	7,	MW.	-3	VP-		VP-7	 L	VD-?	>	49	.}					<b></b>			
SCREEN					V*										-							
DTW (ft)	Maguna	DTM	Manufacture	DTDA	1/2011/100	DTM	Manuani	DTM	Maguum	DTM	Maguna	DTA		0704	Manuar	DTA	14	DTH		DIRA		
1 me	vacuum "H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	vacuum "H₂O	(ft)
01/09			ON										OFF		-							
0800	0.35				0,08		0.75		0.55		0.40											
1200	0.35				0.10		0.75		0.55		0.40											
1600	0.35-	-			0.10		0.75		0.55		0.40											
1715	0.35				0.10		0.75		0.55		0.40											
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# APPENDIX D

HIGH VACUUM DUAL PHASE EXTRACTION REPORT, MAY 9, 2012

# CALCLEAN INC.

#### "A Partner in Protecting California's Waters"

May 9, 2012

AEI Consultants 2500 Camino Diablo, Suite 100 Walnut Creek, CA

ATTN: MR. PETER MCINTYRE

SITE: GOOD CHEVROLET 1630 PARK STREET ALAMEDA, CA

RE: HIGH VACUUM DUAL PHASE EXTRACTION REPORT

Dear Mr. McIntyre:

CalClean Inc. is submitting this High Vacuum Dual Phase Extraction Report for the above referenced site. This report includes all activities performed during the dates of January 25 to April 28, 2012.

From January 25 to April 28, 2012, CalClean performed a 94-day high vacuum dual phase extraction (HVDPE) event on several onsite extraction wells using a low-noise, truck-mounted 450-CFM high-vacuum liquid ring blower along with a Bay Area Air Quality Management District (BAAQMD) various locations permitted propane-fired thermal oxidizer (Plant No. 12568). This technology allows hydrocarbons to be simultaneously removed from the vadose zone, capillary fringe, and saturated soil zone. A high vacuum was applied for vapor extraction and drawdown of the groundwater table around the extraction wells, while vacuum and vapor flow rates were modified to optimize recovery of vapor, free product (if any) and dissolved-phase hydrocarbons.

During the event, the high vacuum dual phase extraction (HVDPE) system was connected to wells DPE-1, DPE-2, DPE-4, DPE-5, DPE-6, DPE-8, DPE-9, DPE-10, DPE-11, and MW-2 individually or in combination. HVDPE activities were conducted for a total of 94 days during the event. Air sparging with approximately 2-3 cfm of oil-free air at around 15 psi was also periodically conducted in several air sparge wells as directed by the consultant.

Individual vapor samples and Total Inlet vapor samples were collected in Tedlar bags from the extraction wells during the 94-day event. The laboratory results, listed in Table 1 and laboratory reports included in Attachment 1, indicate the following:

- The starting Total Petroleum Hydrocarbons as Gasoline (TPH-G) vapor concentrations for wells DPE-2, DPE-5, DPE-8, DPE-9, DPE-10, and DPE-11 were 300 ppmv, 6,100 ppmv, 7,500 ppmv, 11,000 ppmv, 12,000 ppmv, and 3,800 ppmv, respectively. The ending TPH-G vapor concentrations were 3,400 ppmv, 940 ppmv, 880 ppmv, 640 ppmv, 750 ppmv, and 560 ppmv, respectively. The TPH-G vapor concentrations for wells DPE-1, DPE-4, DPE-6, and MW-2 were 360 ppmv, 6,600 ppmv, 1,700 ppmv, and 480 ppmv, respectively. The starting and ending Total Inlet TPH-G vapor concentrations were 480 ppmv and 650 ppmv, respectively.
- The starting Benzene vapor concentrations for wells DPE-2, DPE-5, DPE-8, DPE-9, DPE-10, and DPE-11 were 1.9 ppmv, 46 ppmv, 39 ppmv, 110 ppmv, 91 ppmv, and 34 ppmv, respectively. The ending Benzene vapor concentrations were 14 ppmv, 5.4 ppmv, 7.2 ppmv, 3.4 ppmv, 5.5 ppmv, and 3 ppmv, respectively. The Benzene vapor concentrations for wells DPE-1, DPE-4, DPE-6, and

MW-2 were 1.2 ppmv, 58 ppmv, 3 ppmv, and 2.5 ppmv, respectively. The starting and ending Total Inlet Benzene vapor concentrations were 3 ppmv and 3.2 ppmv, respectively.

• The starting Methyl tert-Butyl Ether (MtBE) vapor concentrations for wells DPE-2, DPE-5, DPE-8, DPE-9, DPE-10, and DPE-11 were 3.7 ppmv, 45 ppmv, 140 ppmv, 360 ppmv, 78 ppmv, and 36 ppmv, respectively. The ending MtBE vapor concentrations were 10 ppmv, 2.8 ppmv, 18 ppmv, 4 ppmv, 13 ppmv, and 3.3 ppmv, respectively. The MtBE vapor concentrations for wells DPE-1, DPE-4, DPE-6, and MW-2 were 3.5 ppmv, 22 ppmv, ND<5 ppmv, and 6.4 ppmv, respectively. The starting and ending Total Inlet MtBE vapor concentrations were 5.9 ppmv and 1.3 ppmv, respectively.

The total equivalent amount of hydrocarbons recovered through vapor extraction during the 94-day HVDPE event was 14,264.87 pounds (based on laboratory data), and 11,307.82 pounds (based on the Horiba field organic vapor analyzer data) with an average of 12,786.34 pounds. The cumulative tabulation of recovered hydrocarbons (based on laboratory data) is provided in Table 2. The cumulative tabulation of recovered hydrocarbons (based on the field organic vapor analyzer data) is provided in Table 2. The cumulative tabulation of recovered hydrocarbons (based on the field organic vapor analyzer data) is provided in Table 3.

The total volume of hydrocarbon-affected groundwater recovered from the extraction wells during the HVDPE event was approximately 346,930 gallons. The extracted groundwater was treated through two 500-pound granular activated carbon vessels in series and then discharged periodically to the onsite sewer system in accordance with Special Discharge Permit #36810870 from the East Bay Municipal Utility District.

The following attachments are included to document the HVDPE event at the site:

Table 1	Results of Laboratory Analysis of Influent Vapor Samples
Table 2	Hydrocarbon Mass Removal (using Lab Data)
Figure 1	Total Inlet HC Concentrations versus Time (94 Days, Using Lab Data)
Figure 2	Cumulative HC Recovered over 94 Days (using Lab Data)
Table 3	Hydrocarbon Mass Removal (using Horiba Data)
Figure 3	Total Inlet HC Concentrations versus Time (94 Days, Using Horiba Data)
Figure 4	Cumulative HC Recovered over 94 Days (using Horiba and Lab Data)
Attachment 1	Laboratory Reports
Attachment 2	High Vacuum Dual Phase Extraction Field Data Sheets

If you have any questions regarding this report, please contact us at (714) 734-9137 or via cell phone at (714) 936-2706.

Sincerely, Phene

CALCLEAN INC.

Noel Shenoi Principal Engineer

Attachments

**CalClean Inc.** 

### Table 1 RESULTS OF LABORATORY ANALYSIS OF VAPOR SAMPLES Good Chevrolet Alameda, CA

Sample ID	Date/Time Sampled	TPH-g (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Total Xylenes (ppmv)	MtBE (ppmv)
DPE-1	1/25/12 1330	360	1.2	5.4	1.9	7.5	3.5
DPE-2	1/25/12 1435	300	1.9	5.4	1.5	6.1	3.7
DPE-2	3/7/12 0945	3,400	14	210	63	340	10
DPE-4	2/2/12 0900	6,600	58	64	19	63	22
DPE-5	3/7/12 0915	6,100	46	320	79	380	45
DPE-5	3/21/12 0815	940	5.4	57	16	110	2.8
DPE-6	3/7/12 1015	1,700	3	110	40	220	ND<5
DPE-8	2/22/12 1545	7,500	39	130	18	110	140
DPE-8	3/21/12 0825	2,600	54	92	21	110	84
DPE-8	4/4/12 1245	1,600	14	70	17	110	31
DPE-8	4/28/12 0410	880	7.2	35	6.9	48	18

CalClean Inc.

## Table 1 RESULTS OF LABORATORY ANALYSIS OF VAPOR SAMPLES Good Chevrolet Alameda, CA

Sample ID	Date/Time Sampled	TPH-g (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Total Xylenes (ppmv)	MtBE (ppmv)
DPE-9	2/13/12 0825	11,000	110	160	32	110	360
DPE-9	2/22/12 1500	8,200	45	140	16	97	140
DPE-9	3/14/12 1300	2,800	64	100	22	110	130
DPE-9	3/21/12 0835	3,400	69	110	23	120	130
DPE-9	4/4/12 1235	2,700	18	83	25	91	44
DPE-9	4/28/12 0420	640	3.4	31	7.2	51	4
DPE-10	2/2/12 1110	12,000	91	44	27	80	78
DPE-10	2/13/12 0845	7,400	82	250	41	150	140
DPE-10	2/22/12 1445	7,300	45	160	24	150	110
DPE-10	3/21/12 0845	2,900	68	100	20	74	130
DPE-10	4/4/12 1225	2,100	13	54	24	150	31
DPE-10	4/28/12 0430	750	5.5	31	7.3	54	13
### Table 1 RESULTS OF LABORATORY ANALYSIS OF VAPOR SAMPLES Good Chevrolet Alameda, CA

Sample ID	Date/Time Sampled	TPH-g (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Total Xylenes (ppmv)	MtBE (ppmv)
DPE-11	2/2/12 1005	3,800	34	100	12	27	36
DPE-11	2/13/12 0835	5,200	55	200	34	120	67
DPE-11	2/22/12 1430	810	3	26	15	70	2.5
DPE-11	4/4/12 1215	1,300	4.2	38	20	100	3.8
DPE-11	4/28/12 560	560	3	27	6.4	46	3.3
MW-2	1/25/12 1540	480	2.5	19	2.3	11	6.4

### Table 1 RESULTS OF LABORATORY ANALYSIS OF VAPOR SAMPLES Good Chevrolet Alameda, CA

Sample ID	Date/Time Sampled	TPH-g (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Total Xylenes (ppmv)	MtBE (ppmv)
TOTAL INLET	1/25/12 1600	480	3	16	3	14	5.9
TOTAL INLET	2/2/12 0805	1,000	9.2	48	6.7	32	15
TOTAL INLET	2/2/12 1215	15,000	120	280	40	130	240
TOTAL INLET	2/2/12 1600	15,000	93	88	120	390	30
TOTAL INLET	2/8/12 1030	3,000	23	120	24	100	52
TOTAL INLET	2/13/12 0850	7,800	74	260	45	170	170
TOTAL INLET	2/20/12 0805	8,300	51	190	24	140	120
TOTAL INLET	2/22/12 1600	5,500	34	170	25	150	53
TOTAL INLET	2/29/12 0815	11,000	77	390	90	330	140
TOTAL INLET	3/7/12 0815	5,600	39	320	69	330	93
TOTAL INLET	3/7/12 1045	1,300	6.9	46	26	150	8.5
TOTAL INLET	3/14/12 1305	2,500	68	92	20	92	120
		1				1	1

### Table 1 RESULTS OF LABORATORY ANALYSIS OF VAPOR SAMPLES Good Chevrolet Alameda, CA

Sample ID	Date/Time Sampled	TPH-g (ppmv)	Benzene (ppmv)	Toluene (ppmv)	Ethylbenzene (ppmv)	Total Xylenes (ppmv)	MtBE (ppmv)					
TOTAL INLET	3/21/12 0805	2,700	62	100	25	130	110					
TOTAL INLET	3/28/12 1205	3,100	17	14	29	110	27					
TOTAL INLET	4/4/12 1205	2,900	15	51	27	110	25					
TOTAL INLET	4/11/12 0815	560	1.5	19	6	57	2.9					
TOTAL INLET	4/18/12 0815	1,500	12	59	22	120	14					
TOTAL INLET	4/28/12 0400	650	3.2	18	6.3	41	1.3					
Notes: ppmv TPH - g	= parts per million by volume = total petroleum hydrocarbons - gasoline											

### Table 2 HYDROCARBON MASS REMOVAL (Using Lab Data) Good Chevrolet, Alameda, CA

		SYSTEM PA	RAMETERS			
TIME	Average System Vacuum (in of Ho)	Average Total System Inlet Flow (scfm)	Influent Concentrations Post-dilution*	(lbs)	Hydrocarbon Rec	overy
1/25/2012 16:00	17	163	480	0.00	0.00	0.00
2/2/2012 8:05	24	24	1,000	173.41	27.76	173,41
2/2/2012 12:15	24	82	15,000	24.05	3.85	197.46
2/2/2012 16:00	24	81	15,000	62.42	9.99	259.88
2/8/2012 10:30	22	107	3,000	1,595.28	255.35	1,855.16
2/13/2012 8:50	22	109	7,800	939.60	150.40	2,794.76
2/20/2012 8:05	22	106	8,300	1,970.55	315.41	4,765.31
2/22/2012 16:00	20	156	5,500	688.14	110.15	5,453.46
2/29/2012 8:15	25	89	11,000	2,204.98	352.94	7,658.44
3/7/2012 8:15	25	82	5,600	1,623.20	259.82	9,281.64
3/7/2012 10:45	19	143	1,300	13.21	2.11	9,294.85
3/14/2012 13:05	19	149	2,500	643.31	102.97	9,938.16
3/21/2012 8:05	22	141	2,700	836.65	133.92	10,774.82
3/28/2012 12:05	22	143	3,100	964.34	154.36	11,739.16
4/4/2012 12:05	22	143	2,900	981.26	157.06	12,720.42
4/11/2012 8:15	20	165	560	595.48	95.32	13,315.90
4/18/2012 8:15	20	169	1,500	393.44	62.98	13,709.35
4/28/2012 4:00	21	153	650	555.52	88.92	14,264.87
	TOTAL HC	RECOVERED* - LA	B DATA	14,264.87	2,283.29	
	TOTAL HC	RECOVERED** - FI	ELD ANALYZER DATA	11,307.82	1,809.98	]
	Average HC R	Recovered*** (Field	Analyzer/Lab Data)	12,786.34	2,046.63	

#### TOTAL GROUNDWATER RECOVERED

346,930

in of Hg = inches of mercury

gal = gallons

ppmv = parts per million by volume scfm = standard cubic feet per minute lbs = pounds

\*\* Based on Horiba field analyzer data.

\* Concentration data based on laboratory data.

\*\*\* Average HC Recovered using Laboratory and Horiba data





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							SYSTEM PARAMETERS						
TIME	Extraction Well # DPE-1 (Stinger	Extraction Well # DPE-2 (Stinger	Extraction Well # DPE-3 (Stinger	Extraction Well # DPE-4 (Stinger	Extraction Well # DPE-5 (Stinger	Extraction Well # DPE-6 (Stinger	System Vacuum	Total System Inlet Flow	Influent Conceritrations	Effluent Concentrations	Hydro (usi	ocarbon Reco ng Horiba Da	ivery ita)
	Depth)	Depth)	Depth)	Depth)	Depth)	Depth)	(in of Hg)	(scfm)**	(ppmv)*	(ppmv) *	(lbs)	(gal)	(Cumul Ibs)
1/25/2012 12:30							24	26	248		0.00	0.00	0.00
1/25/2012 13:00		During the	event, vario	us wells were	extracted		24	27	392		0.06	0.01	0.06
1/25/2012 13:30		from	as directed	by the consul	tant.		24	27	503		0.08	0.01	0.14
1/25/2012 13:35							25	23	528		0.01	0.00	0.15
1/25/2012 14:05							25	21	673		0.09	0.01	0.24
1/25/2012 14:35							25	23	791		0.11	0.02	0.35
1/25/2012 14:40							25	22	462		0.02	0.00	0.37
1/25/2012 15:10							25	24	621		0.08	0.01	0.45
1/25/2012 15:40							25	23	907		0.12	0.02	0.58
1/25/2012 15:45							20	131	523		0.06	0.01	0.64
1/25/2012 16:00							17	163	741		0.32	0.05	0.96
1/25/2012 17:00							16	168	816		1.75	0.28	2.71
1/25/2012 18:00							16	167	847		1.90	0.30	4.61
1/25/2012 19:00							16	169	852		1.94	0.31	6.55
1/25/2012 20:00							. 15	173	893		2.03	0.33	8.58
1/26/2012 0:01	L						15	174	914		8.57	1.37	17.15
1/26/2012 8:00							15	177	938		17.66	2.83	34.82
1/26/2012 12:00							15	173	956		9.03	1.44	43.84
1/26/2012 16:00							15	178	927		9.00	1.44	52.84
1/26/2012 20:00							15	172	978		9.08	1.45	61.92
1/27/2012 0:01							15	171	964		9.11	1.46	71.03
1/27/2012 8:00							15	176	997		18.49	2.96	89.52
1/27/2012 12:00					]		15	173	986		9.42	1.51	98.94
1/27/2012 16:00							15	171	947		9.05	1.45	107.99
1/27/2012 20:00							15	174	923		8.78	1.41	116.78
1/28/2012 0:01							15	173	958		8.92	1.43	125.70
1/28/2012 8:00							15	177	977		18.40	2.95	144.10
1/28/2012 12:00							15	175	956		9.26	1.48	153.37
1/28/2012 16:00							15	176	981		9.26	1.48	162.62
1/28/2012 20:00							15	174	963		9.26	1.48	171.89

							SYSTEM PARAMETERS						
TIME	Extraction Well # DPE-1 (Stinger Depth)	Extraction Well # DPE-2 (Stinger Depth)	Extraction Well # DPE-3 (Stinger Depth)	Extraction Well # DPE-4 (Stinger Depth)	Extraction Well # DPE-5 (Stiriger Depth)	Extraction Well # DPE-6 (Stinger Depth)	System Vacuum (in of Ha)	Total System Inlet Flow (scfm)**	Influent Concentrations	Effluent Concentrations	Hydro (usi	icarbon Reco ng Horiba Da (gal)	very ta)
1/29/2012 0.01							15	173	994		0.28	1 /0	181 17
1/29/2012 8:00							15	171	928		17 07	2.88	101.17
1/29/2012 12:00							15	172	893		8.50	1.36	207.64
1/29/2012 16:00							15	178	876		8.43	1.35	216.07
1/29/2012 20:00							15	177	889		8.53	1.37	224.60
1/30/2012 0:01							15	173	914		8.63	1.38	233.23
1/30/2012 8:00							15	174	949		17.57	2.81	250.80
1/30/2012 12:00							15	171	978		9.05	1.45	259.85
1/30/2012 16:00							15	174	923		8.93	1.43	268.78
1/30/2012 20:00							15	178	964		9.04	1.45	277.82
1/31/2012 0:01							15	173	943		9.15	1.46	286.97
1/31/2012 8:00							15	172	978		18.01	2.88	304.98
1/31/2012 12:00							15	177	929		9.06	1.45	314.04
1/31/2012 16:00							15	176	952		9.04	1.45	323.08
1/31/2012 20:00			ļ				15	178	961		9.22	1.48	332.30
2/1/2012 0:01							15	173	917		9.01	1.44	341.31
2/1/2012 8:00							15	171	894		16.93	2.71	358.24
2/1/2012 11:00							15	174	926		6.41	1.03	364.65
2/1/2012 12:00							15	178	901		2.19	0.35	366.84
2/1/2012 16:00							15	174	892		8.59	1.38	375.44
2/1/2012 20:00							15	173	876		8.35	1.34	383.79
2/2/2012 0:01							15	176	897		8.46	1.35	392.25
2/2/2012 8:00		<b>.</b>	-				15	175	842		16.59	2.65	408.83
2/2/2012 8:10							24	24	2,870		0.42	0.07	409.25
2/2/2012 8:30	L					ļ	24	27	3,520		0.37	0.06	409.62
2/2/2012 9:00	ļ						24	28	4,260	· · ·	0.73	0.12	410.35
2/2/2012 9:05	L						24	26	1,513		0.09	0.01	410.44
2/2/2012 9:35	L						24	29	2,510		0.38	0.06	410.82
2/2/2012 10:05	L					ļ	24	24	3,090		0.51	0.08	411.32
2/2/2012 10:10							24	23	7,240		0.14	0.02	411.46

# Table 3 HYDROCARBON MASS REMOVAL (Using Field Analyzer Data) Good Chevrolet, Alameda, CA

							SYSTEM PARAMETERS						
TIME	Extraction Well # DPE-1 (Stinger Depth)	Extraction Well # DPE-2 (Stinger Depth)	Extraction Well # DPE-3 (Stinger Depth)	Extraction Well # DPE-4 (Stinger Depth)	Extraction Well # DPE-5 (Stinger Depth)	Extraction Well # <b>DPE-6</b> (Stinger Depth)	System Vacuum (in of Hg)	Total System Inlet Flow (scfm)**	Influent Concentrations (ppmv)*	Effluent Concentrations (ppmv) *	Hydro (usi (lbs)	ocarbon Reco ng Horiba Da (gal)	overy ta) (Cumul.lbs)
2/2/2012 10:40							24	21	10.370		1.32	0.21	412 78
2/2/2012 11:10							24	27	12.010		1.83	0.29	414.61
2/2/2012 11:15							24	81	7.940		0.61	0.10	415.22
2/2/2012 11:45							24	87	8,210		4.62	0.74	419.83
2/2/2012 12:15							24	82	8,430		4.79	0.77	424.62
2/2/2012 16:00							24	81	7,410		32.96	5.28	457.58
2/2/2012 20:00							24	84	6,170		30.51	4.88	488.08
2/3/2012 0:01							24	85	6,100		28.35	4.54	516.43
2/3/2012 8:00							23	81	5,940		54.31	8.69	570.74
2/3/2012 12:00							23	90	6,630		29.27	4.68	600.01
2/3/2012 16:00							23	91	6,410		32.13	5.14	632.14
2/3/2012 20:00							23	92	5,570		29.85	4.78	661.99
2/4/2012 0:01							23	95	5,920		29.38	4.70	691.37
2/4/2012 8:00					<u> </u>		23	90	5,580		57.81	9.25	749.18
2/4/2012 12:00							23	94	5,430		27.58	4.41	776.76
2/4/2012 16:00							23	96	5,170		27.42	4.39	804.18
2/4/2012 20:00							23	90	4,990		25.73	4.12	829.91
2/5/2012 0:01							23	95	4,860		24.91	3.99	854.82
2/5/2012 8:00						 	23	94	5,020		50.74	8.12	905.56
2/5/2012 12:00							23	94	4,950		25.52	4.08	931.08
2/5/2012 16:00							23	93	4,830		24.90	3.99	955.98
2/5/2012 20:00							23	96	4,570		24.19	3.87	980.17
2/6/2012 0:01							22	102	4,360		24.17	3.87	1,004.35
2/6/2012 8:00				·			22	105	4,180		48.04	7.69	1,052.38
2/6/2012 12:00							22	107	4,070		23.81	<u>3.8</u> 1	1,076.19
2/6/2012 16:00							22	105	3,980		23.24	3.72	1,099.43
2/6/2012 20:00							22	102	4,010		22.52	3.60	1,121.95
2/7/2012 0:01							22	105	3,950		22.53	3.61	1,144.48
2/7/2012 8:00							22	104	3,890		44.53	7.13	1,189.00
2/7/2012 12:00							22	107	3,920		22.44	3.59	1,211.44

							SYSTEM PARAMETERS						
TIME	Extraction Well # DPE-1 (Stinger Depth)	Extraction Well # DPE-2 (Stinger Depth)	Extraction Well # <b>DPE-3</b> (Stinger Depth)	Extraction Well # DPE-4 (Stinger Deoth)	Extraction Well # DPE-5 (Stinger Depth)	Extraction Well # <b>DPE-6</b> (Stinger Depth)	System Vacuum (in of Ho)	Total System Inlet Flow (scfm)**	Influent Concentrations	Effluent Concentrations	Hydro (usi	carbon Reco ng Horiba Da	ivery ita)
2/7/2012 16:00							22	105	4 070		23.06	3.60	1 234 50
2/7/2012 20:00							22	108	3 840		22.00	3.67	1 257 44
2/8/2012 0:01							22	108	3,660		22 15	3.55	1 279 59
2/8/2012 8:00							22	103	3,780		42.66	6.83	1.322.24
2/8/2012 12:00							22	107	3,530		20.90	3.35	1.343.14
2/8/2012 16:00							22	105	3,420		20.06	3.21	1,363.20
2/8/2012 20:00					İ	1	22	102	3,460		19.39	3.10	1,382.59
2/9/2012 0:01							22	104	3,510		19.63	3.14	1,402.22
2/9/2012 8:00							22	106	3,740		41.37	6.62	1,443.60
2/9/2012 12:00							22	103	3,680		21.11	3.38	1,464.71
2/9/2012 16:00							22	107	3,430		20.33	3.25	1,485.04
2/9/2012 20:00							22	104	3,290		19.30	3.09	1,504.34
2/10/2012 0:01							22	101	3,070		17.83	2.85	1,522.17
2/10/2012 8:00							22	103	3,210		34.81	5.57	1,556.98
2/10/2012 12:00							22	107	3,190		18.30	2.93	1,575.28
2/10/2012 16:00							22	104	3,170		18.27	2.92	1,593.55
2/10/2012 20:00							22	101	3,140		17.61	2.82	1,611.16
2/11/2012 0:01							20	131	3,110		19.82	3.17	1,630.99
2/11/2012 8:00							20	135	2,990		44.09	7.06	1,675.08
2/11/2012 12:00							20	134	3,070	(	22.19	3.55	1,697.27
2/11/2012 16:00							20	139	2,990		22.52	3.61	1,719.80
2/11/2012 20:00							20	132	3,040		22.25	3.56	1,742.04
2/12/2012 0:01		ļ					20	134	3,120		22.40	3.59	1,764.45
2/12/2012 8:00		<u> </u>	ļ	[	<u> </u>		20	132	3,070	[	44.74	7.16	1,809.19
2/12/2012 12:00					·		20	133	3,160		22.48	3.60	1,831.67
2/12/2012 16:00			· · · · · · · · · · · · · · · · · · ·				20	135	3,090	ļ	22.81	3.65	1,854.47
2/12/2012 20:00		<u> </u>				<u> </u>	20	138	3,010		22.67	3.63	1,877.14
2/13/2012 0:01		ļ					20	137	2,960		22.45	3.59	1,899.59
2/13/2012 8:00		ļ					20	139	2,810	ļ	43.27	6.93	1,942.86
2/13/2012 9:00							22	109	5,830		7.29	1.17	1,950.16

	3							SYSTEM	I PARAMETERS				
TIME	Extraction Well # DPE-1 (Stinger Deptb)	Extraction Well # DPE-2 (Stinger Depth)	Extraction Well # DPE-3 (Stinger Depth)	Extraction Well # DPE-4 (Stinger Deptb)	Extraction Well # DPE-5 (Stinger Dentb)	Extraction Well # <b>DPE-6</b> (Stinger Depth)	System Vacuum (In of Ha)	Total System Inlet Flow	Influent Concentrations	Effluent Concentrations	Hydro (usi	ocarbon Reco ng Horiba Da	very ta)
2/12/2012 12:00	Depairy	Deputy	Deputy	Deb(II)		Deputy	00	(3011)	(ppn/v)	(ppniv)		(gai)	
2/13/2012 12:00							22	107	5,740		20.02	4.08	1,975.08
2/13/2012 10:00							22	100	5,090		31.13	5.40	2,009.40
2/14/2012 0:01							22	102	6.020		24.47	5.51	2,043.01
2/14/2012 8:00							22	105	6 170		69.05	11.04	2,070.20
2/14/2012 12:00							22	103	6,000		35.30	5.66	2,147.24
2/14/2012 16:00							22	107	6.010		34.76	5.00	2,102.00
2/14/2012 20:00						· · ·	22	105	6.140		34.57	5.53	2,211.35
2/15/2012 0:01							22	108	6,130		35.73	5.72	2 287 69
2/15/2012 8:00						1	22	103	6,070		69.95	11.20	2.357.64
2/15/2012 12:00							22	104	6,010		34.05	5.45	2.391.69
2/15/2012 16:00							22	108	6,140		35.07	5.61	2,426.76
2/15/2012 20:00							22	109	6,030		35.96	5.76	2,462.71
2/16/2012 0:01							22	103	5,970		34.78	5.57	2,497.49
2/16/2012 8:00							22	107	5,820		67.28	10.77	2,564.77
2/16/2012 12:00							22	105	5,740		33.37	5.34	2,598.14
2/16/2012 16:00							22	103	5,630		32.20	5.15	2,630.34
2/16/2012 20:00							22	101	5,810		31.77	5.09	2,662.11
2/17/2012 0:01							22	102	5,770		32.14	5.14	2,694.25
2/17/2012 8:00							22	104	5,240		61.63	9.86	2,755.88
2/17/2012 12:00							22	103	5,130		29.23	4.68	2,785.11
2/17/2012 16:00							22	104	5,050		28.69	4.59	2,813.80
2/17/2012 20:00							22	107	5,410		30.05	4.81	2,843.84
2/18/2012 0:01							22	104	5,610		31.79	5.09	2,875.63
2/18/2012 8:00							22	107	5,370		62.95	10.08	2,938.59
2/18/2012 12:00	L						22	106	5,140		30.48	4.88	2,969.07
2/18/2012 16:00							22	105	5,010		29.16	4.67	2,998.23
2/18/2012 20:00							22	103	4,930		28.15	4.51	3,026.38
2/19/2012 0:01	L						22	101	4,860		27.30	4.37	3,053.68
2/19/2012 8:00							22	102	4,420		51.19	8.19	3,104.87

							SYSTEM PARAMETERS						
TIME	Extraction Well # <b>DPE-1</b> (Stinger Depth)	Extraction Wel! # <b>DPE-2</b> (Stinger Depth)	Extraction Well # DPE-3 (Stinger Depth)	Extraction Well <b># DPE-4</b> (Stinger Depth)	Extraction Well # DPE-5 (Stinger Depth)	Extraction Well # DPE-6 (Stinger Depth)	System Vacuum (in of Ha)	Total System Inlet Flow (scfm)**	Influent Concentrations (ppmy)*	Etfluent Concentrations (ppmy) *	Hydro (usi (lbs)	ocarbon Reco ng Horiba Da (gai)	very ta) (Cumul, Ibs)
2/19/2012 12:00							22	101	4 650		25.07	4.01	3 129 94
2/19/2012 16:00							22	103	4 390		25.11	4.02	3 155 05
2/19/2012 20:00						·	22	105	4,550		25.32	4.05	3.180.36
2/20/2012 0:01							22	107	4.320		25.71	4.12	3.206.07
2/20/2012 8:00							22	106	4,780		52.67	8.43	3,258.74
2/20/2012 12:00							22	109	4,360		26.75	4.28	3,285.50
2/20/2012 16:00							22	108	4,030		24.79	3.97	3,310.29
2/20/2012 20:00							22	104	4,250		23.90	3.83	3,334.18
2/21/2012 0:01							22	103	4,130		23.72	3.80	3,357.90
2/21/2012 8:00							22	107	3,970		46.22	7.40	3,404.12
2/21/2012 12:00							22	106	4,090		23.37	3.74	3,427.50
2/21/2012 16:00							22	103	3,910		22.76	3.64	3,450.26
2/21/2012 20:00							22	101	3,860		21.58	3.45	3,471.84
2/22/2012 0:01							22	104	3,710		21.22	3.40	3,493.06
2/22/2012 8:00							22	108	3,510		41.59	6.66	3,534.65
2/22/2012 14:30							25	21	2,070		15.93	2.55	3,550.58
2/22/2012 14:45							24	27	5,790		0.32	0.05	3,550.90
2/22/2012 15:45							25	23	7,030		2,18	0.35	3,553.08
2/22/2012 15:45							23	31	6,720		0.00	0.00	3,553.08
2/22/2012 16:00							20	156	6,810		2.15	0.34	3,555.23
2/22/2012 20:00							20	152	6,930		57.62	9.22	3,612.85
2/23/2012 0:01							20	153	5,740		52.83	8.46	3,665.68
2/23/2012 8:00							20	152	5,390		92.24	14.76	3,757.92
2/23/2012 12:00							20	157	5,410		45.44	7.27	3,803.36
2/23/2012 16:00							20	154	5,630		46.75	7.48	3,850.11
2/23/2012 20:00							20	158	5,520		47.36	7.58	3,897.47
2/24/2012 0:01	ļ						20	156	5,390		46.84	7.50	3,944.31
2/24/2012 8:00			1	ļ			20	154	5,270	ļ	89.80	14.37	4,034.10
2/24/2012 12:00				ļ			20	158	5,460		45.58	7.30	4,079.68
2/24/2012 16:00							20	157	5,580		47.35	7.58	4,127.03

							SYSTEM PARAMETERS						
TIME	Extraction Well # DPE-1 (Stinger	Extraction Well # DPE-2 (Stinger	Extraction Well # DPE-3 (Stinger	Extraction Well # DPE-4 (Stinger	Extraction Well # DPE-5 (Stinger	Extraction Well # DPE-6 (Stinger	System Vacuum	Total System Inlet Flow	Influent Concentrations	Effluent Concentrations	Hydro (usii	ocarbon Reco ng Horiba Da	very ta)
	Depin)	Depth)	Depth)	Deptn)	Depth)	Depth)	(In or Hg)	(SCIM)**	(ppmv)"	(ppmv) *	(IDS)	(gal)	(Cumul Ibs)
2/24/2012 20:00							20	153	5,510		46.81	7.49	4,173.84
2/25/2012 0:01							20	154	5,430		45.92	7.35	4,219.76
2/25/2012 8:00							20	153	5,390		90.26	14.45	4,310.02
2/25/2012 12:00							20	151	5,270		44.12	7.06	4,354.14
2/25/2012 16:00							20	152	5,330		43.73	7.00	4,397.87
2/25/2012 20:00							20	155	5,210		44.06	7.05	4,441.92
2/26/2012 0:01							20	156	5,330		44.82	7.17	4,486.74
2/26/2012 8:00							20	154	5,260		89.21	14.28	4,575.95
2/26/2012 12:00							20	151	5,210		43.48	6.96	4,619.42
2/26/2012 16:00							20	152	5,130		42.66	6.83	4,662.08
2/26/2012 20:00							20	154	5,040		42.37	6.78	4,704.45
2/27/2012 0:01							20	156	4,980		42.47	6.80	4,746.92
2/27/2012 8:00							20	153	4,870		82.71	13.24	4,829.62
2/27/2012 9:15							25	83	7,240		12.16	1.95	4,841.78
2/27/2012 12:00							25	81	7,350		22.40	3.58	4,864.18
2/27/2012 16:00							25	87	7,470		33.90	5.43	4,898.08
2/27/2012 20:00							25	84	7,290		34.36	5.50	4,932.44
2/28/2012 0:01							25	85	7,310		33.73	5.40	4,966.17
2/28/2012 8:00							25	87	7,140		67.54	10.81	5,033.71
2/28/2012 12:00		1					25	83	7,070		32.89	5.26	5,066.60
2/28/2012 16:00							25	82	7,120		31.88	5.10	5,098.48
2/28/2012 20:00		1					25	84	6,930		31.75	5.08	5,130.23
2/29/2012 0:01							25	87	6.980		32.52	5.21	5.162.75
2/29/2012 8:00							25	89	6.810		65.95	10.56	5,228,70
2/29/2012 12:00							25	84	6,740	1	31.92	5.11	5,260.62
2/29/2012 16:00							25	82	6,610		30.17	4.83	5,290,79
2/29/2012 20:00							25	81	6,530		29.16	4.67	5,319.95
3/1/2012 0:01		1					25	83	6,720		29.71	4.76	5 349 66
3/1/2012 8:00		1					25	84	6,620		60 54	9,69	5 410 20
3/1/2012 12:00							25	87	6,590		30.76	4,92	5,440.95

							SYSTEM PARAMETERS						
TIME	Extraction Well # DPE-1 (Stinger Depth)	Extraction Well <b># DPE-2</b> (Stinger Depth)	Extraction Well # DPE-3 (Stinger Depth)	Extraction Well # DPE-4 (Stinger Depth)	Extraction Well # <b>DPE-5</b> (Stinger Depth)	Extraction Well # DPE-6 (Stinger Depth)	System Vacuum (in of Hg)	Total System Inlet Flow (scfm)**	Influent Concentrations (ppmy)*	Effluent Concentrations	Hydro (usi (lbs)	ocarbon Reco ng Horiba Da (gal)	ivery ita)
3/1/2012 16:00							25	85	6 630		30.96	4.96	5 471 91
3/1/2012 20:00							25	86	6,720		31.08	4.97	5,502,99
3/2/2012 0:01							25	81	6.940		31.19	4.99	5,534,18
3/2/2012 8:00							25	83	6,780		61.14	9.79	5,595,32
3/2/2012 12:00							25	85	6,610		30.63	4.90	5,625.95
3/2/2012 16:00						1	25	87	6,540		30.79	4.93	5,656.74
3/2/2012 20:00							25	84	6,430		30.20	4.83	5,686.94
3/3/2012 0:01							25	84	6,230		29.08	4.65	5,716.02
3/3/2012 8:00							25	87	6,050		57.06	9.13	5,773.08
3/3/2012 12:00							25	83	5,930		27.73	4.44	5,800.80
3/3/2012 16:00							25	85	5,740		26.69	4.27	5,827.50
3/3/2012 20:00							25	81	5,510		25.43	4.07	5,852.92
3/4/2012 0:01							25	86	5,630		25.43	4.07	5,878.36
3/4/2012 8:00					1		25	82	5,170		49.30	7.89	5,927.66
3/4/2012 12:00							25	87	5,340		24.18	3.87	5,951.84
3/4/2012 16:00							25	84	5,010		24.10	3.86	5,975.94
3/4/2012 20:00							25	83	4,830		22.37	3.58	5,998.31
3/5/2012 0:01							25	81	4,570		21.08	3.37	6,019.39
3/5/2012 8:00							25	82	4,220		38.93	6.23	6,058.32
3/5/2012 12:00							25	81	4,360		19.04	3.05	6,077.36
3/5/2012 16:00							25	83	4,290		19.31	3.09	6,096.68
3/5/2012 20:00							25	86	4,110		19.33	3.09	6,116.01
3/6/2012 0:01							25	85	4,410		19.92	3.19	6,135.93
3/6/2012 8:00							25	83	4,390		40.17	6.43	6,176.10
3/6/2012 12:00							25	86	4,220		19.81	3.17	6,195.91
3/6/2012 16:00							25	81	4,140		19.01	3.04	6,214.92
3/6/2012 20:00							25	84	4,020		18.33	2.93	6,233.25
3/7/2012 0:01							25	81	4,170		18.48	2.96	6,251.72
3/7/2012 8:00							25	82	3,910		35.79	5.73	6,287.51
3/7/2012 8:45							24	41	4,180		2.54	0.41	6,290.05

							SYSTEM PARAMETERS						
TIME	Extraction Well # DPE-1 (Stinger Depth)	Extraction Well # DPE-2 (Stinger	Extraction Well # DPE-3 (Stinger	Extraction Well # DPE-4 (Stinger	Extraction Well # DPE-5 (Stinger Depth)	Extraction Well # DPE-6 (Stinger	System Vacuum	Total System Inlet Flow	Influent Concentrations	Effluent Concentrations	Hydro (usi	ocarbon Reco ng Honba Da	overy ita)
2/7/2040 0.45	Deput)	Deput)	Deputy	Liepur)		Depairy		(sciin)	(ppmv)	(ppmv)	(IDS)	(gai)	(Cumul los)
3/7/2012 9:15							24	43	3,990		1.17	0.19	6,291.22
3/7/2012 9:20							18	64	2,410		0.19	0.03	6,291.41
3/7/2012 9:45							18	62	2,390		0.86	0.14	6,292.27
3/7/2012 9:50							26	32	1,473		0.10	0.02	6,292.38
3/7/2012 10:15							26	35	1,302		0.26	0.04	6,292.64
3/7/2012 10:20	<u> </u>						20	131	1,370		0.13	0.02	6,292.76
3/7/2012 10:45	<u> </u>						19	143	842		0.86	0.14	6,293.62
3/7/2012 11:00	<u> </u>		<u> </u>				19	147	809	·	0.41	0.07	6,294.03
3/7/2012 12:00							19	145	756		1.56	0.25	6,295.59
3/7/2012 16:00							19	147	742		5.96	0.95	6,301.54
3/7/2012 20:00	———						19	143	718		5.76	0.92	6,307.31
3/8/2012 0:01	<u> </u>						18	157	759		6.06	0.97	6,313.37
3/8/2012 8:00							18	154	773		12.95	2.07	6,326.31
3/8/2012 10:30							18	156	797		4.14	0.66	6,330.45
3/8/2012 12:00							18	155	758		2.47	0.40	6,332.92
3/8/2012 16:00							18	153	787		6.48	1.04	6,339.40
3/8/2012 20:00	L						19	74	923		5.28	0.85	6,344.69
3/9/2012 0:01							19	77	877		3.72	0.59	6,348.40
3/9/2012 8:00							19	73	764		6.69	1.07	6,355.09
3/9/2012 12:00							24	94	2,950		8.44	1.35	6,363.54
3/9/2012 16:00							24	93	2,840		14.74	2.36	6,378.28
3/9/2012 20:00							24	97	2,710		14.36	2.30	6,392.63
3/10/2012 0:01							24	91	2,860		14.32	2.29	6,406.95
3/10/2012 8:00		[			<u> </u>		24	94	2,990		29.41	4.71	6,436.36
3/10/2012 12:00							24	97	2,830		15.13	2.42	6,451.49
3/10/2012 16:00					<u> </u>		24	93	2,980		15.03	2.41	6,466.52
3/10/2012 20:00							24	95	3,040		15.41	2.47	6,481.93
3/11/2012 0:01							24	96	3,110		16.06	2.57	6,497.99
3/11/2012 8:00							24	98	3,370		34.16	5.47	6,532.15
3/11/2012 12:00							24	95	3,420		17.84	2.86	6,549.99

# Table 3 HYDROCARBON MASS REMOVAL (Using Field Analyzer Data) Good Chevrolet, Alameda, CA

							SYSTEM PARAMETERS						
TIME	Extraction Well # DPE-1 (Stinger Depth)	Extraction Well # DPE-2 (Stinger Depth)	Extraction Well # <b>DPE-3</b> (Stinger Depth)	Extraction Well <b># DPE-4</b> (Stinger Depth)	Extraction Well # <b>DPE-5</b> (Stinger Depth)	Extraction Well # DPE-6 (Stinger Depth)	System Vacuum (in of Hg)	Total System Inlet Flow (scfm)**	Influent Concentrations (ppmy)*	Effluent Concentrations (comv) *	Hydro (usi (İbs)	carbon Reco ng Horiba Da (cal)	very ta) (Cumul. Ibs)
3/11/2012 16:00							24	91	3 560		17.68	2.83	6 567 67
3/11/2012 20:00							24	93	3.430		17.51	2.80	6.585.18
3/12/2012 0:01							24	92	3,390		17.25	2.76	6.602.43
3/12/2012 8:00							24	97	3,540		35.59	5.70	6.638.02
3/12/2012 12:00							24	95	3,760		19.08	3.05	6,657.10
3/12/2012 16:00							24	91	3,520		18.44	2.95	6,675.54
3/12/2012 20:00							24	93	3,410		17.36	2.78	6,692.90
3/13/2012 0:01							24	95	3,370		17.43	2.79	6,710.33
3/13/2012 8:00							24	92	3,140		33.08	5.29	6,743.41
3/13/2012 16:00							24	93	3,090		31.38	5.02	6,774.79
3/13/2012 20:00							24	97	3,010		15.78	2.53	6,790.57
3/14/2012 0:01							24	97	2,780		15.36	2.46	6,805.93
3/14/2012 8:00							24	93	2,990		29.79	4.77	6,835.72
3/14/2012 13:00							22	149	4,320		30.11	4.82	6,865.82
3/14/2012 16:00							22	148	4,270		26.05	4.17	6,891.87
3/14/2012 20:00							22	144	4,210		33.71	5.40	6,925.59
3/15/2012 0:01							22	147	4,110		33.10	5.30	6,958.69
3/15/2012 8:00							22	143	4,160		65.17	10.43	7,023.86
3/15/2012 12:00							22	149	4,140		33.00	5.28	7,056.86
3/15/2012 16:00							22	147	4,070		33.09	5.30	7,089.94
3/15/2012 20:00							22	148	4,130		32.93	5.27	7,122.88
3/16/2012 0:01							22	142	4,190		32.99	5.28	7,155.86
3/16/2012 8:00							22	144	4,010		63.73	10.20	7,219.59
3/16/2012 12:00							22	143	4,090		31.65	5.07	7,251.24
3/16/2012 16:00							22	144	4,040		31.77	5.08	7,283.01
3/16/2012 20:00							22	141	4,160		31.82	5.09	7,314.83
3/17/2012 0:01							22	143	4,110		32.11	5.14	7,346.94
3/17/2012 8:00							22	147	4,070		64.46	10.32	7,411.40
3/17/2012 12:00							22	148	3,980		32.33	5.18	7,443.73
3/17/2012 16:00							22	146	3,910		31.58	5.06	7,475.31

# Table 3 HYDROCARBON MASS REMOVAL (Using Field Analyzer Data) Good Chevrolet, Alameda, CA

							SYSTEM PARAMETERS						
TIME	Extraction Well # <b>DPE-1</b> (Stinger Depth)	Extraction Well # DPE-2 (Stinger Depth)	Extraction Well # DPE-3 (Stinger Depth)	Extraction Well # DPE-4 (Stinger Depth)	Extraction Well # DPE-5 (Stinger Depta)	Extraction Well # DPE-6 (Stinger Deptty)	System Vacuum	Total System Inlet Flow (sofm)**	Influent Concentrations	Effluent Concentrations	Hydro (usi	ocarbon Reco ng Horiba Da	ivery ita)
3/17/2012 20:00		Coparty	E-operty	Dopaty	Dopany	Dopui,	22	1/1	2.070	(ppiny)	20.70	(gai)	
3/18/2012 0:01							22	1/2	3,970		20.64	4.95	7,500.10
3/18/2012 8:00							22	145	4 140		63.51	4.90	7,530.74
3/18/2012 12:00							22	146	4 090		32.83	5.26	7,000.25
3/18/2012 16:00							22	144	4,000	· · · · ·	31.98	5.20	7,000.00
3/18/2012 20:00							22	148	4,180		32.56	5.21	7.697.63
3/19/2012 0:01							22	149	4.010		33.26	5.32	7,730,88
3/19/2012 8:00							22	145	3,960		63.67	10.19	7.794.55
3/19/2012 12:00							22	147	3,840		31.01	4.96	7,825.56
3/19/2012 16:00							22	143	3,710		29.81	4.77	7,855.37
3/19/2012 20:00							22	144	3,650		28.76	4.60	7,884.13
3/20/2012 0:01							22	147	3,610		28.88	4.62	7,913.02
3/20/2012 8:00							22	143	3,570		56.58	9.06	7,969.60
3/20/2012 12:00							22	144	3,620		28.09	4.50	7,997.69
3/20/2012 16:00							22	147	3,510		28.25	4.52	8,025.94
3/20/2012 20:00							22	146	3,390		27.53	4.41	8,053.47
3/21/2012 0:01							22	143	3,310		26.47	4.24	8,079.94
3/21/2012 8:00							22	141	3,180		50.08	8.02	8,130.02
3/21/2012 12:00							22	143	3,090		24.24	3.88	8,154.27
3/21/2012 16:00							22	148	3,150		24.72	3.96	8,178.99
3/21/2012 20:00							18	178	4,710		34.89	5.58	8,213.88
3/22/2012 0:01							18	174	4,660		45.09	7.22	8,258.97
3/22/2012 8:00					·		18	173	4,570		87.03	13.93	8,346.00
3/22/2012 12:00	· · · · ·						18	177	4,390		42.70	6.83	8,388.70
3/22/2012 16:00							18	172	4,210		40.86	6.54	8,429.56
3/22/2012 20:00							18	175	4,140		39.45	6.31	8,469.01
3/23/2012 0:01							18	171	3,960	· · · · · · · · · · · · · · · · · · ·	38.32	6.13	8,507.33
3/23/2012 8:00						<u> </u>	18	174	3,720	· · ·	72.00	11.52	8,579.32
3/23/2012 10:00							21	153	3,980		17.14	2.74	8,596.46
3/23/2012 12:00							22	146	4,030		16.30	2.61	8,612.77

							SYSTEM PARAMETERS						
TIME	Extraction Well # DPE-1 (Stinger	Extraction Well # DPE-2 (Stinger	Extraction Well # DPE-3 (Stinger	Extraction Well # DPE-4 (Stinger	Extraction Well <b># DPE-5</b> (Stinger	Extraction Well # DPE-6 (Stinger	System Vacuum	Totai System inlet ⊱low	Influent Concentrations	Effluent Concentrations	Hydro (usi	carbon Reco ng Horiba Da	very ta)
	Depth)	Depth)	Depth)	Depth)	Depth)	Depth)	(in of Hg)	(scim)**	(ppmv)*	(ppmv) *	(lbs)	(gal)	(Cumul Ibs)
3/23/2012 14:00							22	141	4,560		16.78	2.69	8,629.55
3/23/2012 16:00							22	143	4,410		17.34	2.78	8,646.89
3/23/2012 20:00							22	146	4,590		35.41	5.67	8,682.31
3/24/2012 0:01							22	141	4,680		36.37	5.82	8,718.68
3/24/2012 8:00							22	143	4,930		74.16	11.87	8,792.84
3/24/2012 12:00							22	142	4,710		37.41	5.99	8,830.25
3/24/2012 16:00							22	148	4,890		37.90	6.07	8,868.15
3/24/2012 20:00							22	147	4,550		37.92	6.07	8,906.07
3/25/2012 0:01							22	149	4,260		35.65	5.71	8,941.72
3/25/2012 8:00							22	144	4,480		69.59	11.14	9,011.30
3/25/2012 12:00							22	146	4,150		34.07	5.45	9,045.38
3/25/2012 16:00							22	145	4,310	L	33.52	5.37	9,078.90
3/25/2012 20:00							22	143	4,460		34.39	5.50	9,113.29
3/26/2012 0:01							22	149	4,640		36.33	5.81	9,149.61
3/26/2012 8:00							22	147	4,780		75.77	12.13	9,225.38
3/26/2012 12:00							22	145	4,520		36.97	5.92	9,262.35
3/26/2012 16:00					<u> </u>		22	148	4,710		36.82	5.89	9,299.17
3/26/2012 20:00							22	146	4,470		36.75	5.88	9,335.92
3/27/2012 0:01							22	143	4,260		34.49	5.52	9,370.41
3/27/2012 8:00							22	144	4,510		68.39	10.95	9,438.81
3/27/2012 12:00							22	148	4,180		34.55	5.53	9,473.36
3/27/2012 16:00							22	147	4,040		33.01	5.28	9,506.37
3/27/2012 20:00							22	146	3,920		31.75	5.08	9,538.13
3/28/2012 0:01							22	147	3,760		30.76	4.92	9,568.89
3/28/2012 8:00							22	145	3,510		57.68	9.23	9,626.57
3/28/2012 12:00							22	143	3,470		27.37	4.38	9,653.94
3/28/2012 16:00							22	144	3,320		26.53	4.25	9,680.48
3/28/2012 20:00							22	141	3,270		25.57	4.09	9,706.05
3/29/2012 0:01							22	148	3,160		25.41	4.07	9,731.45
3/29/2012 8:00							22	147	2,910		48.66	7.79	9,780.11

							SYSTEM PARAMETERS					112 T 120	
TIME	Extraction Well # DPE-1 (Stinger Depth)	Extraction Well # DPE-2 (Stinger Depth)	Extraction Well # <b>DPE-3</b> (Stinger Depth)	Extraction Well # <b>DPE-4</b> (Stinger Depth)	Extraction Well # DPE-5 (Stinger Depth)	Extraction Well # DPE-6 (Stinger Depth)	System Vacuum (in ef Hg)	Total System inlet Flow (scfm)**	Influent Concentrations (ppmv)*	Effluent Concentrations (ppmv) *	Hydro (usi (Ibs)	calbon Reco ng Honba Da (gal)	overy ita) (Cumul Ibs)
3/29/2012 12:00							22	142	2.750		22.27	3.56	9.802.38
3/29/2012 16:00							22	146	2,610		21.02	3.36	9.823.40
3/29/2012 20:00							22	141	2,540		20.12	3.22	9,843.52
3/30/2012 0:01							22	146	2,490		19.74	3.16	9,863.26
3/30/2012 8:00							22	148	2,340		38.59	6.18	9,901.84
3/30/2012 12:00							22	141	2,160		17.71	2.83	9,919.55
3/30/2012 16:00							22	143	2,040		16.24	2.60	9,935.79
3/30/2012 20:00							22	142	2,120		16.14	2.58	9,951.93
3/31/2012 0:01							- 22	141	2,070		16.21	2.59	9,968.14
3/31/2012 8:00							22	144	1,987		31.42	5.03	9,999.56
3/31/2012 12:00							22	142	1,953		15.34	2.46	10,014.91
3/31/2012 16:00							22	143	1,871		14.84	2.38	10,029.74
3/31/2012 20:00							22	145	1,937		14.93	2.39	10,044.68
4/1/2012 0:01							22	143	1,889		15.06	2.41	10,059.74
4/1/2012 8:00							22	147	1,696		28.25	4.52	10,087.99
4/1/2012 12:00							22	146	1,621		13.23	2.12	10,101.22
4/1/2012 16:00							22	144	1,576		12.62	2.02	10,113.85
4/1/2012 20:00							22	141	1,539		12.09	1.93	10,125.93
4/2/2012 0:01							22	142	1,497		11.75	1.88	10,137.68
4/2/2012 8:00						L	22	141	1,329		21.73	3.48	10,159.41
4/2/2012 12:00							22	144	1,296		10.19	1.63	10,169.60
4/2/2012 16:00	-						22	147	1,271		10.17	1.63	10,179.77
4/2/2012 20:00							22	141	1,258		9.92	1.59	10,189.68
4/3/2012 0:01							22	146	1,219		9.72	1.56	10,199.40
4/3/2012 8:00							22	143	1,158		18.67	2.99	10,218.07
4/3/2012 12:00							22	145	1,123		8.94	1.43	10,227.01
4/3/2012 16:00							22	141	1,107		8.68	1.39	10,235.70
4/3/2012 20:00							22	143	1,149		8.72	1.40	10,244.42
4/4/2012 0:01							22	147	1,191		9.28	1.49	10,253.70
4/4/2012 8:00				<u> </u>			22	145	1,271		19.53	3.13	10,273.23

							SYSTEM PARAMETERS						
TIME	Extraction Well # DPE-1 (Stinger Depth)	Extraction Well # DPE-2 (Stinger Depth)	Extraction Well # DPE-3 (Stinger Depth)	Extraction Well # DPE-4 (Stinger Depth)	Extraction Well # DPE-5 (Stinger Denth)	Extraction Well # DPE-6 (Stinger Depth)	System Vacuum	Total System Inlet Flow	Influent Concentrations	Effluent Concentrations	Hydro (usi	carbon Reco	overy ita)
4/4/2012 12:00				are perty		(Jepan)	22	142	1 259	(ppinv)	(103)	(gai)	10.002.45
4/4/2012 16:00							22	145	1,200		9.92	1.59	10,203.15
4/4/2012 20:00							22	147	1,231		0.60	1.57	10,292.90
4/5/2012 0:01							22	1/3	1 17/		0.29	1.50	10,302.07
4/5/2012 8:00							22	147	1 123		18.10	2.00	10,312.04
4/5/2012 12:00							22	144	1 101		8.81	1 /1	10,330.15
4/5/2012 16:00							22	145	1 153		8.87	1.41	10,330.90
4/5/2012 20:00							22	142	1,139		8.96	1 43	10,356,78
4/6/2012 0:01							22	141	1 118		873	1 40	10,365.51
4/6/2012 8:00							22	143	1.078		16.95	2 71	10,382.46
4/6/2012 11:00							22	148	1.051		6.33	1.01	10,388,79
4/6/2012 12:00							21	154	874		1.98	0.32	10.390.77
4/6/2012 16:00							21	158	903		7.55	1.21	10.398.31
4/6/2012 20:00							21	153	867		7.49	1.20	10,405.81
4/7/2012 0:01							21	157	834		7.21	1.15	10,413.02
4/7/2012 8:00							21	155	721		13.18	2.11	10,426.20
4/7/2012 12:00							21	156	756		6.25	1.00	10,432.46
4/7/2012 16:00							21	151	749		6.29	1.01	10,438.75
4/7/2012 20:00							21	153	737		6.15	0.98	10,444.90
4/8/2012 0:01							21	152	728		6.11	0.98	10,451.01
4/8/2012 8:00							21	151	694		11.71	1.87	10,462.71
4/8/2012 12:00							21	154	671		5.67	0.91	10,468.38
4/8/2012 16:00			[				21	157	658		5.63	0.90	10,474.01
4/8/2012 20:00							21	153	641		5.48	0.88	10,479.49
4/9/2012 0:01							21	154	632		5.34	0.86	10,484.84
4/9/2012 8:00							21	152	607		10.30	1.65	10,495.14
4/9/2012 16:00							21	151	613		10.07	1.61	10,505.20
4/9/2012 20:00							21	153	594		5.00	0.80	10,510.20
4/10/2012 0:01							21	155	573		4.91	0.79	10,515.11
4/10/2012 8:00							. 21	157	546		9.49	1.52	10,524.60

# Table 3 HYDROCARBON MASS REMOVAL (Using Field Analyzer Data) Good Chevrolet, Alameda, CA

							SYSTEM PARAMETERS						
TIME	Extraction Well # DPE-1 (Stinger Depth)	Extraction Well # DPE-2 (Stinger Depth)	Extraction Well # DPE-3 (Stinger Deptb)	Extraction Well # DPE-4 (Stinger Death)	Extraction Well # DPE-5 (Stinger Depth)	Extraction Well # DPE-6 (Stinger Dontb)	System Vacuum	Total System Inlet Flow	influent Concentrations	Effluent Concentrations	Hydro (usi	ocarbon Reco	ta)
4/40/2042 40:00	Doputy	Deptity	Бериту	Depuily	Depin		(in or Fig)	(scini)	(ppinv)	(ppmv)	(ios)	(gai)	
4/10/2012 12:00							20	164	531		4.71	0.75	_10,529.31
4/10/2012 10:00							20	168	573		4.99	0.80	10,534.30
4/10/2012 20:00							20	100			5.10	0.82	10,539.39
4/11/2012 0:01							20	163	532		4.86	0.78	10,544.25
4/11/2012 8:00							20	165	517		9.35	1.50	10,553.60
4/11/2012 12:00							20	168	546		4.82	0.77	10,558.42
4/11/2012 10:00							19	1/4	531		5.01	0.80	10,563.43
4/11/2012 20:00							19	470	515		5.00	0.80	10,568.43
4/12/2012 0:01							19	1/8	501		4.93	0.79	10,573.36
4/12/2012 0.00							19	173	487		9.42	1.51	10,582.79
4/12/2012 12:00						l	19	174	452		4.44	0.71	10,587.22
4/12/2012 10:00							19	173	4/8		4.39	0.70	10,591.62
4/12/2012 20:00							19	475	407	·	4.40	0.71	10,596.07
4/13/2012 0:01							19	1/5	436		4.30	0.69	10,600.37
4/13/2012 6:00							19	1/8	407		8.09	1.29	10,608.46
4/13/2012 11:00							19	174	418	)	2.97	0.47	10,611.42
4/13/2012 12:00							20	101	1,523		2.21	0.35	10,613.63
4/13/2012 10:00							20	162	1,497		13.30	2.14	10,627.00
4/13/2012 20:00							20	103	1,470		13.24	2.12	10,040.23
4/14/2012 0.01							20	107	1,442		3.17	2.11	10,653.40
4/14/2012 0:00							20	100	1,401		20.00	4.11	10,679.05
4/14/2012 12:00							20	104	1,390		12.00	2.01	10,091.08
4/14/2012 10:00							20	168	1,3/1		12.43	1.99	10,704.01
A/15/2012 0:01							20	164	1,352		12.30	1.90	10,710.39
4/15/2012 8:00							20	104	1,373		04.25	1.98	10,728.76
4/15/2012 20:00				· · · · · · · · · · · · · · · · · · ·			20	167	1 267		24.30	5.90	10,753.11
4/16/2012 20:00							20	107	1,307		30.80	5.90	10,789.97
4/16/2012 0.01							20	103	1,339		12.21	1.95	10,802.18
4/10/2012 8:00		<u> </u>					20	161	1,298		23.22	3.72	10,825.39
4/10/2012 12:00		!			L		20	164	1,267		11.35	1.82	10,836.74

							SYSTEM PARAMETERS						
TIME	Extraction Well # DPE-1 (Stinger Depth)	Extraction Well # DPE-2 (Stinger Depth)	Extraction Well # DPE-3 (Stinger Depth)	Extraction Well # DPE-4 (Stinger Depth)	Extraction Well # <b>DPE-5</b> (Stinger Depth)	Extraction Well # DPE-6 (Stinger Depth)	System Vacuum (in of Hq)	Total System inlet Flow (scfm)**	Influent Concentrations	Effluent Concentrations (nomy) *	Hydro (usi	carbon Reco ng Horiba Da	very ta)
4/16/2012 16:00							20	167	1 251		11.35	1.97	10.949.00
4/16/2012 20:00							20	165	1 244		11.33	1.02	10,040.09
4/17/2012 0:01							20	163	1 221		11.05	1.01	10,000.07
4/17/2012 8:00							20	164	1 173	· · · · · · · · · · · · · · · · · · ·	21.00	3.40	10,070.42
4/17/2012 12:00							20	162	1 151		10.32	1.65	10,001.70
4/17/2012 16:00							20	161	1,129		10.02	1.60	10,002.01
4/17/2012 20:00							20	164	1,107		9.89	1.58	10.921.93
4/18/2012 0:01							20	165	1,083		9.85	1.58	10.931.78
4/18/2012 8:00							20	169	1,041		19.28	3.09	10,951.06
4/18/2012 12:00							20	167	1,013		9.40	1.50	10,960.46
4/18/2012 16:00							20	163	971		8.91	1.43	10,969.37
4/18/2012 20:00							20	164	954		8.57	1.37	10,977.94
4/19/2012 0:01							20	162	937		8.43	1.35	10,986.37
4/19/2012 8:00							20	164	893		16.21	2.59	11,002.58
4/19/2012 12:00							20	164	851		7.79	1.25	11,010.37
4/19/2012 16:00							20	163	834		<u>7</u> .50	1.20	11,017.87
4/19/2012 20:00							20	165	811		7.35	1.18	11,025.22
4/20/2012 0:01							20	167	792		7.28	1.16	11,032.49
4/20/2012 8:00							20	163	786		14.15	2.26	11,046.64
4/20/2012 12:00							20	161	741		6.74	1.08	11,053.38
4/20/2012 16:00				•			20	163	773		6.68	1.07	11,060.06
4/20/2012 20:00							20	164	731		6.70	1.07	11,066.75
4/21/2012 0:01							20	162	718		6.46	1.03	11,073.21
4/21/2012 8:00							20	161	682		12.29	1.97	11,085.50
<u>4/21/2012 12:00</u>							20	163	698		6.09	0.97	11,091.59
4/21/2012 16:00			"				20	161	671		6.04	0.97	11,097.62
4/21/2012 20:00							_20	164	657		5.88	0.94	11,103.50
4/22/2012 0:01							20	163	631		<u>5</u> .76	0.92	11,109.26
4/22/2012 8:00		L					20	164	593		10.88	1.74	11,120.13
4/22/2012 12:00							20	162	564		5.14	0.82	11,125.27

							SYSTEM PARAMETERS						
TIME	Extraction Well # DPE-1 (Stinger Depth)	Extraction Well # <b>DPE-2</b> (Stinger Depth)	Extraction Well # DPE-3 (Stinger Depth)	Extraction Well # DPE-4 (Stinger Depth)	Extraction Well # DPE-5 (Stinger Depth)	Extraction Well # DPE-6 (Stinger Depth)	System Vacuum	Total System Inlet Flow (scfm)**	Influent Concentrations	Effluent Concentrations	Hydro (usi	ocarbon Reco	overy ata)
4/22/2012 16:00							20	165	(ppniv)	(Epiny)	(IDS)		
4/22/2012 20:00							20	163	530		4.80	0.78	11,130.13
4/23/2012 0:01				·			20	161	519	·	4.70	0.70	11,134.90
4/23/2012 8:00							20	164	473		9.75	1.40	11,139.58
4/23/2012 12:00							21	153	678		<u>0.75</u>	0.90	11,148.33
4/23/2012 16:00							20	167	713		6.06	0.00	11 150 26
4/23/2012 20:00						-	21	151	692		6.08	0.97	11 165 44
4/24/2012 0:01							21	154	671		5.68	0.07	11 171 12
4/24/2012 8:00							21	152	699		11.39	1.82	11 182 52
4/24/2012 12:00							21	157	731		6.02	0.96	11 188 53
4/24/2012 16:00							21	158	719		6.22	1.00	11 194 75
4/24/2012 20:00							21	154	728		6.15	0.98	11,200.90
4/25/2012 0:01							21	153	693		5.96	0.95	11.206.86
4/25/2012 8:00							21	151	671		11.27	1.80	11,218,13
4/25/2012 12:00							21	154	642		5.45	0.87	11,223.58
4/25/2012 20:00							21	151	697		11.12	1.78	11,234.70
<u>4/26/2012 0:01</u>							21	152	678		5.70	0.91	11,240.40
4/26/2012 8:00							21	157	621		10.91	1.75	11,251.31
4/26/2012 12:00							21	153	649		5.36	0.86	11,256.67
4/26/2012 16:00							21	151	617		5.24	0.84	11,261.91
4/27/2012 0:01							21	152	588		9.96	1.59	11,271.87
4/27/2012 8:00							21	156	637		10.25	1.64	11,282.12
4/28/2012 0:45							<b>2</b> 1	157	578		21.68	3.47	11,303.80
4/28/2012 4:00							21	153	593		4.02	0.64	11,307.82
									TOTAL HC RECO	VERED	11,307.82	1,809.98	

Comments: Manual dilution was not opened during the event.

in of Hg = inches of mercury

gal = gallons scfm = standard cubic feet per minute lbs = pounds

TOTAL GROUNDWATER EXTRACTED

346,930

\* Concentrations based on Horiba MEXA 324-JU field organic vapor analyzer, calibrated as hexane \*\* Inlet flow measured through orifice tube and converted from acfm to reported scfm

**CalClean Inc.** 





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### **ATTACHMENT 1**

### LABORATORY REPORTS



Client:

Attn:

Address:

### Associated Laboratories

806 N. Batavia - Orange, CA 92868 Tel (714)771-6900 Fax (714)538-1209 www.associatedlabs.com Info@associatedlabs.com



Lab Request: 298515 Report Date: 02/01/2012 Date Received: 01/27/2012

Client ID:

9977

Comments: Good Chevrolet 1630 Park St., Alameda, CA Global ID: T0600100655

Noel Shenoi

Calclean

#142

3002 Dow Ave.

Tustin, CA 92780

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods indicated on the attached report and all NELAC criteria. This cover letter is an integral part of the final report.

**Client Sample ID** Sample # 298515-001 DPE-1 DPE-2 298515-002 298515-003 MW-2 298515-004 **Total Inlet** Stack 298515-005

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare Lab Director

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 45 days from date reported.

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**TESTING & CONSULTING** Chemical Microbiological Environmental

Sample #:	298515-001	Client:	Calclean
Matrix:	Air	Client Sample #:	DPE-1
Collect Date:	01/25/12	Site:	
Collect Time:	01:30 PM	Collector:	client

Compound	F	Result	DF	RDL	Units A	nalysis Date	e Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchID	): QC1122817	
TPH Gasoline Vppm		360	5	25	Vppm	01/28/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchI	: QC1122818	
Benzene Vppm		1.2	5	0.05	Vppm	01/28/12	sandyw
Ethylbenzene Vppm		1.9	5	0.05	Vppm	01/28/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		3.5	5	0.5	Vppm	01/28/12	sandyw
Toluene Vppm		5.4	5	0.05	Vppm	01/28/12	sandyw
Xylenes (Total) Vppm		7.5	5	0.15	Vppm	01/28/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 298515 Page 2 of 6

Sample #:	298515-002	Client:	Calclean
Matrix:	Air	Client Sample #:	DPE-2
Collect Date:	01/25/12	Site:	
Collect Time:	02:35 PM	Collector:	client

Compound	R	lesult	DF	RDL	Units A	nalysis Date	e Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchID	: QC1122817	
TPH Gasoline Vppm		300	5	25	Vppm	01/28/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchID	: QC1122818	
Benzene Vppm		1.9	5	0.05	Vppm	01/28/12	sandyw
Ethylbenzene Vppm	**********************	1.5	5	0.05	Vppm	01/28/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		3.7	5	0.5	Vppm	01/28/12	sandyw
Toluene Vppm		5.4	5	0.05	Vppm	01/28/12	sandyw
Xylenes (Total) Vppm		6.1	5	0.15	Vppm	01/28/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 298515 Page 3 of 6

Sample #:	298515-003	Client:	Calclean
Matrix:	Air	Client Sample #:	MW-2
Collect Date:	01/25/12	Site:	
Collect Time:	03:40 PM	Collector:	client

Compound	R	lesult	DF	RDL	Units A	nalysis Date	e Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchID	QC1122867	
TPH Gasoline Vppm	······································	480	5	25	Vppm	01/30/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchID	QC1122868	
Benzene Vppm	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	2.5	5	0.05	Vppm	01/30/12	sandyw
Ethylbenzene Vppm		2.3	5	0.05	Vppm	01/30/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		6.4	5	0.5	Vppm	01/30/12	sandyw
Toluene Vppm		19	5	0.05	Vppm	01/30/12	sandyw
Xylenes (Total) Vppm		11	5	0.15	Vppm	01/30/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 298515 Page 4 of 6



Sample #:	298515-004	Client:	Calclean
Matrix:	Air	Client Sample #:	Total Inlet
Collect Date:	01/25/12	Site:	
Collect Time:	04:00 PM	Collector:	client

Compound	R	Result	DF	RDL	Units A	Analysis Date	e Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchI	D: QC1122817	
TPH Gasoline Vppm		480	5	25	Vppm	01/28/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchI	D: QC1122818	
Benzene Vppm		3.0	5	0.05	Vppm	01/28/12	sandyw
Ethylbenzene Vppm		3.0	5	0.05	Vppm	01/28/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		5.9	5	0.5	Vppm	01/28/12	sandyw
Toluene Vppm		16	5	0.05	Vppm	01/28/12	sandyw
Xylenes (Total) Vppm		14	5	0.15	Vppm	01/28/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit





Analytical Results Report Lab Request 298515 Page 5 of 6

Sample #:	298515-005	Client:	Calclean
Matrix:	Air	Client Sample #:	Stack
Collect Date:	01/25/12	Site:	
Collect Time:	04:10 PM	Collector:	client

Compound	R	esult	DF	RDL	Units A	nalysis Date	e Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchID	: QC1122817	
TPH Gasoline Vppm		ND	1	5	Vppm	01/28/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchID	: QC1122818	
Benzene Vppm		ND	1	0.01	Vppm	01/28/12	sandyw
Ethylbenzene Vppm		ND	1	0.01	Vppm	01/28/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		ND	1	0.1	Vppm	01/28/12	sandyw
Toluene Vppm		ND	1	0.01	Vppm	01/28/12	sandyw
Xylenes (Total) Vppm		ND	1	0.03	Vppm	01/28/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 298515 Page 6 of 6

### ASSOCIATED LABORATORIES

### **Chain of Custody Record**

ASSOCIATED LABORATORIE, 806 North Batavia • Orange, CA 92868 Phone: (714) 771-6900 • Fax: (714) 538-11	<b>5</b> 209 <b>–</b>		Cha	in of Cus	tody	y F	Rec	ord		*****					La Pi	ab Job No age	2985	-15	
CUSTOMER INFORMATION			PROJEC	T INFORMATION			]			REQL	JIRED		N AR	OUN	ID TII	ME: Stan	dard: 🗡	·	
CalClean Inc.	F	PROJECT NAM	E Goo	D CHEVE	20 LE	EΥ				72 H	lours	:		48	Hou	rs:	24 Hours:		
EMAIL:		NUMBER:							,										
ADDRESS: NOEL SHENO	/'	ADDRESS: (	630	PARK	<u>ST</u>				$\sqrt{z}$		)è	$\checkmark$	/ /	/	/ .				
Phone (714) 734-91	37	?0. #:	r C AIV	TEDA, C	1			0/8	) B		3/	' /		/					•
PHONE: Fax (714) 734-91	38 <sup>s</sup>	SAMPLED BY:	./	·			1	$\frac{1}{2}$					/ /	Ι.					
Sample ID	Date	Time	Matrix	Container Number/Size	· Pre	IS	TOT	BIEL						.		Test In	structions 8	Comm	anto
DPE-1	125/12	1330	AIR	TEDĻAR	NON	NE	X	X	-{	$\int$		<u> </u>		(	-	1651 118		Comme	<u></u>
PE-2		1435						7	1								- <u></u>	<u></u>	
3 MW-2		1540						11											
1 Total Inlet		1600	1			,		11		+							······································		
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Total No. of Samplas					L		L									MR =	PPMV		<del></del>
Relinquished by 1. Receive	Method of	of Shipmer	nt: Bellesuis			F	Prese	rvative	: 1=	= Ice	2 =	HCI	3 =	=HN	O3	$4 = H_2SO_4$	5 =NaOH	6 =Oth	er
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### Associated Laboratories

806 N. Batavia - Orange, CA 92868 Tel (714)771-6900 Fax (714)538-1209 www.associatedlabs.com Info@associatedlabs.com



Lab Request:	298985
Report Date:	02/13/2012
Date Received:	02/06/2012

Client ID:

9977

Client: Calclean Address: 3002 Dow Ave. #142 Tustin, CA 92780 Attn: Noel Shenoi

Comments: Good Chevrolet 1630 Park St., Alameda, CA Global ID: T0600100655

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods indicated on the attached report and all NELAC criteria. This cover letter is an integral part of the final report.

Sample #Client Sample ID298985-001Total Inlet 8:05298985-002VPE-4298985-003VPE-11298985-004Total Inlet 12:15298985-005VPE-10298985-006Total Inlet 16:00

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare 'n.D.

Lab Director NOTE: Unless notified in writing , all samples will be discarded by appropriate disposal protocol 45 days from date reported.

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

TESTING & CONSULTING Chemical Microbiological Environmental

Sample #:	298985-001	Client:	Calclean
Matrix:	Air	Client Sample #:	Total Inlet 8:05
Collect Date:	02/02/12	Site:	
Collect Time:	08:05	Collector:	client

Compound	F	Result	DF	RDL	Units /	Analysis Date	Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchl	D: QC1123175	
TPH Gasoline Vppm		1000	25	125	Vppm	02/07/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchil	D: QC1123176	
Benzene Vppm		9.2	25	0.25	Vppm	02/07/12	sandyw
Ethylbenzene Vppm		6.7	25	0.25	Vppm	02/07/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		15	25	2.5	Vppm	02/07/12	sandyw
Toluene Vppm		48	25	0.25	Vppm	02/07/12	sandyw
Xylenes (Total) Vppm		32	25	0.75	Vppm	02/07/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 298985 Page 2 of 7

Sample #:	298985-002	Client:	Calclean
Matrix:	Air	Client Sample #:	VPE-4
Collect Date:	02/02/12	Site:	
Collect Time:	09:00	Collector:	client

Compound	Result DF			RDL	Units Analysis Date Analyst		
Method: EPA 8015B	Prep Method:	Method			QCBatchl	<b>D:</b> QC1123175	
TPH Gasoline Vppm		6600	50	250	Vppm	02/07/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchl	D: QC1123176	
Benzene Vppm		58	50	0.5	Vppm	02/07/12	sandyw
Ethylbenzene Vppm		19	50	0.5	Vppm	02/07/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		22	50	5	Vppm	02/07/12	sandyw
Toluene Vppm		64	50	0.5	Vppm	02/07/12	sandyw
Xylenes (Total) Vppm		63	50	1.5	Vppm	02/07/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 298985 Page 3 of 7
Sample #:	298985-003	Client:	Calclean
Matrix:	Air	Client Sample #:	VPE-11
Collect Date:	02/02/12	Site:	
Collect Time:	10:05	Collector:	client

Compound	F	lesult	DF	RDL	Units /	Analysis Date	Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchl	D: QC1123175	
TPH Gasoline Vppm		3800	25	125	Vppm	02/07/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchl	D: QC1123176	
Benzene Vppm		34	25	0.25	Vppm	02/07/12	sandyw
Ethylbenzene Vppm		12	25	0.25	Vppm	02/07/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		36	25	2.5	Vppm	02/07/12	sandyw
Toluene Vppm		100	25	0.25	Vppm	02/07/12	sandyw
Xylenes (Total) Vppm		27	25	0.75	Vppm	02/07/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 298985 Page 4 of 7

Sample #:	298985-004	Client:	Calclean
Matrix:	Air	Client Sample #:	Total Inlet 12:15
Collect Date:	02/02/12	Site:	
Collect Time:	12:15	Collector:	client

Compound	F	Result	DF	RDL	Units /	Analysis Date	e Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchl	D: QC1123175	
TPH Gasoline Vppm		15000	100	500	Vppm	02/07/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchl	D: QC1123176	
Benzene Vppm		120	100	1	Vppm	02/07/12	sandyw
Ethylbenzene Vppm		40	100	1	Vppm	02/07/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm	******	240	100	10	Vppm	02/07/12	sandyw
Toluene Vppm		280	100	1	Vppm	02/07/12	sandyw
Xylenes (Total) Vppm		130	100	3	Vppm	02/07/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 298985 Page 5 of 7

Sample #:	298985-005	Client:	Calclean
Matrix:	Air	Client Sample #:	VPE-10
Collect Date:	02/02/12	Site:	
Collect Time:	11:10	Collector:	client

Compound	R	Result	DF	RDL	Units /	Analysis Date	Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchl	D: QC1123175	
TPH Gasoline Vppm		12000	50	250	Vppm	02/07/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchl	D: QC1123176	
Benzene Vppm		91	50	0.5	Vppm	02/07/12	sandyw
Ethylbenzene Vppm		27	50	0.5	Vppm	02/07/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		78	50	5	Vppm	02/07/12	sandyw
Toluene Vppm		44	50	0.5	Vppm	02/07/12	sandyw
Xylenes (Total) Vppm		80	50	1.5	Vppm	02/07/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 298985 Page 6 of 7

Sample #:	298985-006	Client:	Calclean
Matrix:	Air	Client Sample #:	Total Inlet 16:00
Collect Date:	02/02/12	Site:	
Collect Time:	16:00	Collector:	client

Compound	R	Result	DF	RDL	Units /	Analysis Date	e Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchl	D: QC1123175	
TPH Gasoline Vppm		15000	100	500	Vppm	02/07/12	sandyw
Method: EPA 8021B	Prep Method:	Method	······································		QCBatchl	D: QC1123176	
Benzene Vppm		93	100	1	Vppm	02/07/12	sandyw
Ethylbenzene Vppm		120	100	1	Vppm	02/07/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		30	100	10	Vppm	02/07/12	sandyw
Toluene Vppm		88	100	1	Vppm	02/07/12	sandyw
Xylenes (Total) Vppm		390	100	3	Vppm	02/07/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 298985 Page 7 of 7

#### ASSOCIATED LABORATORIES 7

Date:

n/11

#### **Chain of Custody Record**

806 North Batavia • Orange, CA 92868 Phone: (714) 771-6900 • Fax: (714) 538-1209	8		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Lab Job No Page	298985
CUSTOMER INFORMATION	PROJEC	T INFORMATION		REQUIRED		ndard: X
COMPANY CalClean Inc.	PROJECT NAME: GOT	D CHEVROLI		72 Hours:	48 Hours:	24 Hours:
SEND REPORT TO: 3002 Dow, #142 Tustin. CA 92780	NUMBER:					
	ADDRESS: 1630	PARK ST	5	5/1-	111111	
Phone (714) 724 0427	ALAN	NEDA, CA		\$7   <b>\$</b> 7		
PHONE: Fax (714) 724 0120	P.O. #: SAMPLED BY:		<b>/ %</b> 0/4			
(714)754-9138	<u> </u>	· T		E		
Sample ID Date	Time Matrix	Container Number/Size			Test Ir	structions & Comments
[014] Inlet 2/2/11	2 0805 AIR	TEDLAR NO				
2 VPE-4	0900					· · · · · · · · · · · · · · · · · · ·
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Date:

216/12

Time:



Client:

Attn:

Address:

## Associated Laboratories

806 N. Batavia - Orange, CA 92868 Tel (714)771-6900 Fax (714)538-1209 www.associatedlabs.com Info@associatedlabs.com



Lab Request: 299342 Report Date: 02/14/2012 Date Received: 02/13/2012

Client ID: 9977

Comments: Good Chevrolet 1630 Park St., Alameda, CA Global ID: T0600100655

Noel Shenoi

Calclean

#142

3002 Dow Ave.

Tustin, CA 92780

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods indicated on the attached report and all NELAC criteria. This cover letter is an integral part of the final report.

Sample #Client Sample ID299342-001Total Inlet

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph Lab Director

NOTE: Unless notified in writing , all samples will be discarded by appropriate disposal protocol 45 days from date reported.

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

TESTING & CONSULTING Chemical Microbiological Environmental

Sample #:	299342-001	Client:	Calclean		
Matrix:	Air	Client Sample #:	Total Inlet		
Collect Date:	02/08/12	Site:			
Collect Time:	10:30	Collector:	client		

Compound	R	Result	DF	RDL	Units Analysis Date Analyst			
Method: EPA 8015B	Prep Method:	Method			QCBatchl	<b>D:</b> QC1123310		
TPH Gasoline Vppm		3000	50	250	Vppm	02/13/12	sandyw	
Method: EPA 8021B	Prep Method:	Method			QCBatchil	D: QC1123314		
Benzene Vppm		23	50	0.5	Vppm	02/13/12	sandyw	
Ethylbenzene Vppm		24	50	0.5	Vppm	02/13/12	sandyw	
Methyl-t-butyl Ether (MTBE) Vppm		52	50	5	Vppm	02/13/12	sandyw	
Toluene Vppm		120	50	0.5	Vppm	02/13/12	sandyw	
Xylenes (Total) Vppm		100	50	1.5	Vppm	02/13/12	sandyw	

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit





Analytical Results Report Lab Request 299342 Page 2 of 2

### ASSOCIATED LABORATORIES

# **Chain of Custody Record**

806 North Batavia • Orange, CA 92868 Phone: (714) 771-6900 • Fax: (714) 538-1209	F	Una		lou	уп		ore							L F	.ab Job No Page	299342	
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rax (714) 734-9138	SAMPLED BY:	· `					07			\$			/.	/			
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2/12/11 Time: Date: Date: Date:	ime: 🕥	Date:	Time:		Date											* ·	



# Associated Laboratories

806 N. Batavia - Orange, CA 92868 Tel (714)771-6900 Fax (714)538-1209 www.associatedlabs.com Info@associatedlabs.com



Lab Request: 299535 Report Date: 02/21/2012 Date Received: 02/15/2012

Client ID: 9977

Client: Calclean Address: 3002 Dow Ave. #142 Tustin, CA 92780 Attn: Noel Shenoi

Comments: Good Chevrolet 1630 Park St., Alameda, CA Global ID: T0600100655

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods indicated on the attached report and all NELAC criteria. This cover letter is an integral part of the final report.

Sample #Client Sample ID299535-001VPE-9299535-002VPE-11299535-003VPE-10299535-004Total Inlet

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by, Edward Sy Beha

Lab Director NOTE: Unless notified in writing , all samples will be discarded by appropriate disposal protocol 45 days from date reported.

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

TESTING & CONSULTING Chemical Microbiological Environmental

Sample #:	299535-001	Client:	Calclean
Matrix:	Air	Client Sample #:	VPE-9
Collect Date:	02/13/12	Site:	
Collect Time:	08:25	Collector:	client

Compound	F	Result	DF	RDL	Units A	Analysis Date	Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchil	<b>D:</b> QC1123477	
TPH Gasoline Vppm		11000	100	500	Vppm	02/20/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchl	D: QC1123478	
Benzene Vppm		110	100	1	Vppm	02/20/12	sandyw
Ethylbenzene Vppm		32	100	1	Vppm	02/20/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		360	100	10	Vppm	02/20/12	sandyw
Toluene Vppm		160	100	1	Vppm	02/20/12	sandyw
Xylenes (Total) Vppm		110	100	3	Vppm	02/20/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit DF = Dilution Factor



Analytical Results Report Lab Request 299535 Page 2 of 5

Sample #:	299535-002	Client:	Calclean
Matrix:	Air	Client Sample #:	VPE-11
Collect Date:	02/13/12	Site:	
Collect Time:	08:35	Collector:	client

Compound	F	Result	DF	RDL	Units A	Analysis Date	Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchII	D: QC1123477	
TPH Gasoline Vppm		5200	100	500	Vppm	02/20/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchI	D: QC1123478	
Benzene Vppm		55	100	1	Vppm	02/20/12	sandyw
Ethylbenzene Vppm		34	100	1	Vppm	02/20/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		67	100	10	Vppm	02/20/12	sandyw
Toluene Vppm		200	100	1	Vppm	02/20/12	sandyw
Xylenes (Total) Vppm		120	100	3	Vppm	02/20/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Sample #:	299535-003	Client:	Calclean
Matrix:	Air	Client Sample #:	VPE-10
Collect Date:	02/13/12	Site:	
Collect Time:	08:45	Collector:	client

Compound	F	Result	DF	RDL	Units A	Analysis Date	e Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchll	D: QC1123477	
TPH Gasoline Vppm	· · · · · · · · · · · · · · · · · · ·	7400	100	500	Vppm	02/20/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchl	D: QC1123478	
Benzene Vppm		82	100	1	Vppm	02/20/12	sandyw
Ethylbenzene Vppm		41	100	1	Vppm	02/20/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		140	100	10	Vppm	02/20/12	sandyw
Toluene Vppm	************************	250	100	1	Vppm	02/20/12	sandyw
Xylenes (Total) Vppm		150	100	3	Vppm	02/20/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 299535 Page 4 of 5

Sample #:	299535-004	Client:	Calclean
Matrix:	Air	Client Sample #:	Total Inlet
Collect Date:	02/13/12	Site:	
Collect Time:	08:50	Collector:	client

Compound	F	Result	DF	RDL	Units /	Analysis Date	Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchll	D: QC1123477	
TPH Gasoline Vppm		7800	100	500	Vppm	02/20/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchil	D: QC1123478	
Benzene Vppm		74	100	1	Vppm	02/20/12	sandyw
Ethylbenzene Vppm		45	100	1	Vppm	02/20/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		170	100	10	Vppm	02/20/12	sandyw
Toluene Vppm		260	100	1	Vppm	02/20/12	sandyw
Xylenes (Total) Vppm		170	100	3	Vppm	02/20/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 299535 Page 5 of 5

#### ASSOCIATED LABORATORIES

806 North Batavia = Orange, CA 92868 Phone: (714) 771-6900 = Fax: (714) 538-

# **Chain of Custody Record**

299535

806 North Batavia Phone: (714) 771-c	1 = Orange, CA 92860 5900 = Fax: (714) 53	3 8-1209						-				•						L	_ab Job No <sup>D</sup> age	201 01 of	5 33		
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COMPANY	CalClean Inc.			PROJECT NAM	WE: GOO	D CHEVE	201	E7	Ħ		•		72 Hours: 48 Hours:						irs:	24 Hours:			
SEND REPORT TO:	3002 Dow, #142			NUMBER:					<u>·</u>														
EMAIL:	- NOTI 0110			ADDRESS:	1630	PARK	ST	•		7	5/	7	.7	7_	7	7	7	7	111			,	
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Client:

Attn:

Address:

### Associated Laboratories

806 N. Batavia - Orange, CA 92868 Tel (714)771-6900 Fax (714)538-1209 www.associatedlabs.com Info@associatedlabs.com



Lab Request: 299948 Report Date: 02/29/2012 Date Received: 02/23/2012

Client ID: 9977

Comments: Good Chevrolet 1630 Park St., Alameda, CA Global ID: T0600100655

Noel Shenoi

Calclean

#142

3002 Dow Ave.

Tustin, CA 92780

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods indicated on the attached report and all NELAC criteria. This cover letter is an integral part of the final report.

**Client Sample ID** Sample # 299948-001 Total Inlet **VPE-11** 299948-002 **VPE-10** 299948-003 299948-004 VPE-9 VPE-8 299948-005 299948-006 **Total Inlet** 299948-007 Stack

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, PH.D. Lab Director NOTE: Unless notified in writing , all samples will be discarded by appropriate disposal protocol 45 days from date reported.

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

TESTING & CONSULTING Chemical Microbiological Environmental

Sample #:	299948-001	Client:	Calclean
Matrix:	Air	Client Sample #:	Total Inlet
Collect Date:	02/20/12	Site:	
Collect Time:	08:05	Collector:	client

Compound	R	lesult	DF	RDL	Units A	Analysis Date	e Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchI	<b>D:</b> QC1123658	
TPH Gasoline Vppm	8	3300	100	500	Vppm	02/25/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchI	): QC1123659	
Benzene Vppm		51	100	1	Vppm	02/25/12	sandyw
Ethylbenzene Vppm		24	100	1	Vppm	02/25/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		120	100	10	Vppm	02/25/12	sandyw
Toluene Vppm		190	100	1	Vppm	02/25/12	sandyw
Xylenes (Total) Vppm		140	100	3	Vppm	02/25/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 299948 Page 2 of 8

Sample #:	299948-002	Client:	Calclean
Matrix:	Air	Client Sample #:	VPE-11
Collect Date:	02/22/12	Site:	
Collect Time:	14:30	Collector:	client

Compound	F	Result	DF	RDL	Units A	nalysis Date	e Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchID	QC1123658	
TPH Gasoline Vppm		810	25	125	Vppm	02/25/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchID	QC1123659	
Benzene Vppm		3.0	25	0.25	Vppm	02/25/12	sandyw
Ethylbenzene Vppm		15	25	0.25	Vppm	02/25/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		2.5	25	2.5	Vppm	02/25/12	sandyw
Toluene Vppm		26	25	0.25	Vppm	02/25/12	sandyw
Xylenes (Total) Vppm		70	25	0.75	Vppm	02/25/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 299948 Page 3 of 8

Sample #:	299948-003	Client:	Calclean
Matrix:	Air	Client Sample #:	VPE-10
Collect Date:	02/22/12	Site:	
Collect Time:	14:45	Collector:	client

Compound	Result	DF	RDL	Units A	nalysis Date	e Analyst
Method: EPA 8015B	Prep Method: Method			QCBatchI	): QC1123658	
TPH Gasoline Vppm	7300	100	500	Vppm	02/25/12	sandyw
Method: EPA 8021B	Prep Method: Method			QCBatchI	: QC1123659	
Benzene Vppm	45	100	1	Vppm	02/25/12	sandyw
Ethylbenzene Vppm	24	100	1	Vppm	02/25/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm	110	100	10	Vppm	02/25/12	sandyw
Toluene Vppm	160	100	1	Vppm	02/25/12	sandyw
Xylenes (Total) Vppm	150	100	3	Vppm	02/25/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 299948 Page 4 of 8

Sample #:	299948-004	Client:	Calclean
Matrix:	Air	Client Sample #:	VPE-9
Collect Date:	02/22/12	Site:	
Collect Time:	15:00	Collector:	client

Compound	Resul	lt DF	RDL	Units A	nalysis Date	e Analyst
Method: EPA 8015B	Prep Method: Meth	nod		QCBatchID	: QC1123658	
TPH Gasoline Vppm	8200	100	500	Vppm	02/25/12	sandyw
Method: EPA 8021B	Prep Method: Meth	nod		QCBatchID	: QC1123659	
Benzene Vppm	45	100	1	Vppm	02/25/12	sandyw
Ethylbenzene Vppm	16	100	1	Vppm	02/25/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm	140	100	10	Vppm	02/25/12	sandyw
Toluene Vppm	140	100	1	Vppm	02/25/12	sandyw
Xylenes (Total) Vppm	97	100	3	Vppm	02/25/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit





Analytical Results Report Lab Request 299948 Page 5 of 8

Sample #:	299948-005	Client:	Calclean
Matrix:	Air	Client Sample #:	VPE-8
Collect Date:	02/22/12	Site:	
Collect Time:	15:45	Collector:	client

Compound	R	lesult	DF	RDL	Units /	Analysis Date	Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchl	D: QC1123658	
TPH Gasoline Vppm	7	7500	100	500	Vppm	02/25/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchl	D: QC1123659	
Benzene Vppm		39	100	1	Vppm	02/25/12	sandyw
Ethylbenzene Vppm		18	100	1	Vppm	02/25/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		140	100	10	Vppm	02/25/12	sandyw
Toluene Vppm		130	100	1	Vppm	02/25/12	sandyw
Xylenes (Total) Vppm		110	100	3	Vppm	02/25/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 299948 Page 6 of 8

Sample #:	299948-006	Client:	Calclean
Matrix:	Air	Client Sample #:	Total Inlet
Collect Date:	02/22/12	Site:	
Collect Time:	16:00	Collector:	client

Compound	Re	sult	DF	RDL	Units /	Analysis Date	Analyst
Method: EPA 8015B	Prep Method: 1	Method			QCBatchl	D: QC1123658	
TPH Gasoline Vppm	55	00	100	500	Vppm	02/25/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchli	D: QC1123659	
Benzene Vppm		34	100	1	Vppm	02/25/12	sandyw
Ethylbenzene Vppm		25	100	1	Vppm	02/25/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		53	100	10	Vppm	02/25/12	sandyw
Toluene Vppm	1	70	100	1	Vppm	02/25/12	sandyw
Xylenes (Total) Vppm	1	50	100	3	Vppm	02/25/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit





Analytical Results Report Lab Request 299948 Page 7 of 8

Sample #:	299948-007	Client:	Calclean
Matrix:	Air	Client Sample #:	Stack
Collect Date:	02/22/12	Site:	
Collect Time:	16:05	Collector:	client

Compound	R	lesult	DF	RDL	Units /	Analysis Date	Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchil	D: QC1123658	
TPH Gasoline Vppm			1	5	Vppm	02/25/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchll	D: QC1123659	
Benzene Vppm		ND	1	0.01	Vppm	02/25/12	sandyw
Ethylbenzene Vppm		ND	1	0.01	Vppm	02/25/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		ND	1	0.1	Vppm	02/25/12	sandyw
Toluene Vppm		ND	1	0.01	Vppm	02/25/12	sandyw
Xylenes (Total) Vppm		0.04	1	0.03	Vppm	02/25/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 299948 Page 8 of 8

#### ASSOCIATED LABORATORIES

806 North Batavia • Orange, CA 92868 Phone: (714) 771-6900 • Fax: (714) 538-1209



# **Chain of Custody Record**

Lab Job No.	209948
Page	of I

	CUSTOMER INFORMATI	ON		PROJEC	T INFORMATION		^.	]			R	IEQUIF	RED	TUR	N AF	100	ND T	ME: S	tandar	d:>	ζ	
COMPANY	CalClean Inc.		PROJECT NAM	AE: GOD	D CHEVT	20 1	ET	7		•		72 Ho	urs:			4	8 Hou	ırs:	24	Hours:		
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EMAIL:	Tustili, CA 52180		ADDRESS:	630	PARK	ST			7	2/	K	1	1	7	7	7	7	11	/			
ADDRESS:	NOEL SHEN	101	F	TLAN	NEDA, C	A			/3	5	8		\$7	' /	/ /	/	/ ,	/ / /				
	<sup>Phone</sup> (714) 734-9	9137	P.O. #:		· · · · ·			1 /	2/2	8/	<u>@</u> /		¥/			1						
PHONE:	<sup>Fax</sup> (714) 734-	9138	SAMPLED BY:	.*			,		\$6				/ /	/ ,	/	/.	/					
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Client:

Attn:

Address:

#### Associated Laboratories

806 N. Batavia - Orange, CA 92868 Tel (714)771-6900 Fax (714)538-1209 www.associatedlabs.com Info@associatedlabs.com



Lab Request: 300459 Report Date: 03/12/2012 Date Received: 03/05/2012

Client ID: 9977

Comments: Good Chevrolet 1630 Park St., Alameda, CA Global ID: T0600100655

Calclean

#142

3002 Dow Ave.

Tustin, CA 92780 Noel Shenoi

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods indicated on the attached report and all NELAC criteria. This cover letter is an integral part of the final report.

Sample #Client Sample ID300459-001Total Inlet300459-002Stack

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behale Lab Director

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 45 days from date reported.

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

TESTING & CONSULTING Chemical Microbiological Environmental

Sample #:	300459-001	Client:	Calclean
Matrix:	Air	Client Sample #:	Total Inlet
Collect Date:	02/29/12	Site:	
Collect Time:	08:15	Collector:	client

Compound	R	esult	DF	RDL	Units /	Analysis Date	Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchl	D: QC1124055	
TPH Gasoline Vppm	11	000	100	500	Vppm	03/06/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchl	D: QC1124059	
Benzene Vppm		77	100	1	Vppm	03/06/12	sandyw
Ethylbenzene Vppm		90	100	1	Vppm	03/06/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		140	100	10	Vppm	03/06/12	sandyw
Toluene Vppm		390	100	1	Vppm	03/06/12	sandyw
Xylenes (Total) Vppm		330	100	3	Vppm	03/06/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit





Analytical Results Report Lab Request 300459 Page 2 of 3

Sample #:	300459-002	Client:	Calclean
Matrix:	Air	Client Sample #:	Stack
Collect Date:	02/29/12	Site:	
Collect Time:	08:20	Collector:	client

Compound	Result	DF	RDL	Units A	Analysis Date	e Analyst
Method: EPA 8015B	Prep Method: Method			QCBatchl	<b>D:</b> QC1124055	
TPH Gasoline Vppm	28	1	5	Vppm	03/06/12	sandyw
Method: EPA 8021B	Prep Method: Method			QCBatchI	D: QC1124059	
Benzene Vppm	0.10	1	0.01	Vppm	03/06/12	sandyw
Ethylbenzene Vppm	0.73	1	0.01	Vppm	03/06/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm	0.12	1	0.1	Vppm	03/06/12	sandyw
Toluene Vppm	0.93	1	0.01	Vppm	03/06/12	sandyw
Xylenes (Total) Vppm	3.0	1	0.03	Vppm	03/06/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 300459 Page 3 of 3

### ASSOCIATED LABORATORIES



# Chain of Custody Record

ASSOCIATED 1. 306 North Batavia • C Phone: (714) 771-6900	ABORATORI range, CA 92868 • Fax: (714) 538	LES 1-1209		Gila		ισαγ	nec	or	a						1	Lab Job No Page	300459	) )
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Client:

Attn:

Address:

### Associated Laboratories

806 N. Batavia - Orange, CA 92868 Tel (714)771-6900 Fax (714)538-1209 www.associatedlabs.com Info@associatedlabs.com



Lab Request: 300834 Report Date: 03/16/2012 Date Received: 03/12/2012

Client ID: 9977

Comments: Good Chevrolet 1630 Park Street, Alameda CA Global ID: T0600100655

Calclean

#142

3002 Dow Ave.

Tustin, CA 92780

Noel Shenoi

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods indicated on the attached report and all NELAC criteria. This cover letter is an integral part of the final report.

 Sample #
 Client Sample ID

 300834-001
 Total Inlet

 300834-002
 VPE-5

 300834-003
 DPE-2

 300834-004
 VPE-6

 300834-005
 Total Inlet

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare ΥD Lab Director

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 45 days from date reported.

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TESTING & CONSULTING Chemical Microbiological Environmental

Sample #:	300834-001	Client:	Calclean
Matrix:	Air	Client Sample #:	Total Inlet
Collect Date:	03/07/12	Site:	
Collect Time:	08:15	Collector:	client

Compound	F	Result	DF	RDL	Units /	Analysis Date	<u>Analyst</u>
Method: EPA 8015B	Prep Method:	Method			QCBatchll	<b>D:</b> QC1124332	
TPH Gasoline Vppm		5600	100	500	Vppm	03/13/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchl	D: QC1124333	
Benzene Vppm		39	100	1	Vppm	03/13/12	sandyw
Ethylbenzene Vppm		69	100	1	Vppm	03/13/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		93	100	10	Vppm	03/13/12	sandyw
Toluene Vppm		320	100	1	Vppm	03/13/12	sandyw
Xylenes (Total) Vppm		330	100	3	Vppm	03/13/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit DF = Dilution Factor



Analytical Results Report Lab Request 300834 Page 2 of 6

Sample #:	300834-002	Client:	Calclean
Matrix:	Air	Client Sample #:	VPE-5
Collect Date:	03/07/12	Site:	
Collect Time:	09:15	Collector:	client

Compound	F	Result	DF	RDL	Units A	Analysis Date	<u>e Analyst</u>
Method: EPA 8015B	Prep Method:	Method			QCBatchil	<b>D:</b> QC1124332	
TPH Gasoline Vppm	(	6100	100	500	Vppm	03/13/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchI	<b>D:</b> QC1124333	
Benzene Vppm		46	100	1	Vppm	03/13/12	sandyw
Ethylbenzene Vppm		79	100	1	Vppm	03/13/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		45	100	10	Vppm	03/13/12	sandyw
Toluene Vppm		320	100	1	Vppm	03/13/12	sandyw
Xylenes (Total) Vppm		380	100	3	Vppm	03/13/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit





Analytical Results Report Lab Request 300834 Page 3 of 6

Sample #:	300834-003	Client:	Calclean
Matrix:	Air	Client Sample #:	DPE-2
Collect Date:	03/07/12	Site:	
Collect Time:	09:45	Collector:	client

Compound	Result	DF	RDL	Units /	Analysis Date	Analyst
Method: EPA 8015B	Prep Method: Method			QCBatchll	D: QC1124332	
TPH Gasoline Vppm	3400	100	500	Vppm	03/13/12	sandyw
Method: EPA 8021B	Prep Method: Method			QCBatchII	<b>D:</b> QC1124333	
Benzene Vppm	14	100	1	Vppm	03/13/12	sandyw
Ethylbenzene Vppm	63	100	1	Vppm	03/13/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm	10	100	10	Vppm	03/13/12	sandyw
Toluene Vppm	210	100	1	Vppm	03/13/12	sandyw
Xylenes (Total) Vppm	340	100	3	Vppm	03/13/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit DF = Dilution Factor



Analytical Results Report Lab Request 300834 Page 4 of 6

Sample #:	300834-004	Client:	Calclean
Matrix:	Air	Client Sample #:	VPE-6
Collect Date:	03/07/12	Site:	
Collect Time:	10:15	Collector:	client

Compound	F	Result	DF	RDL	Units A	Analysis Date	e Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchI	<b>):</b> QC1124332	
TPH Gasoline Vppm	•	1700	50	250	Vppm	03/14/12	sandyw
Method: EPA 8021B	Prep Method:	Method		A	QCBatchl	): QC1124333	
Benzene Vppm		3.0	50	0.5	Vppm	03/14/12	sandyw
Ethylbenzene Vppm		40	50	0.5	Vppm	03/14/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		ND	50	5	Vppm	03/14/12	sandyw
Toluene Vppm		110	50	0.5	Vppm	03/14/12	sandyw
Xylenes (Total) Vppm		220	50	1.5	Vppm	03/14/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report

Lab Request 300834 Page 5 of 6

Sample #:	300834-005	Client:	Calclean
Matrix:	Air	Client Sample #:	Total Inlet
Collect Date:	03/07/12	Site:	
Collect Time:	10:45	Collector:	client

Compound	F	Result	DF	RDL	Units A	Analysis Date	e Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchil	<b>D:</b> QC1124332	
TPH Gasoline Vppm		1300	25	125	Vppm	03/13/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchI	): QC1124333	
Benzene Vppm		6.9	25	0.25	Vppm	03/13/12	sandyw
Ethylbenzene Vppm		26	25	0.25	Vppm	03/13/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		8.5	25	2.5	Vppm	03/13/12	sandyw
Toluene Vppm		46	25	0.25	Vppm	03/13/12	sandyw
Xylenes (Total) Vppm		150	25	0.75	Vppm	03/13/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit





Analytical Results Report Lab Request 300834 Page 6 of 6

ASSOCIATED LABORATORIES 806 North Batavia • Orange, CA 92868 Phone: (714) 771-6900 • Fax: (714) 538-1209	Cha	in of Custody	Record		Lab Job No Page	300824 
CUSTOMER INFORMATION	PROJEC	T INFORMATION		REQUIRED	TURN AROUND TIME: Stand	dard:
COMPANY CalClean Inc.	PROJECT NAME: 600	D CHEVROLE	7	72 Hours:	48 Hours:	24 Hours:
SEND REPORT TO: 3002 Dow, #142 Tustin, CA 92780	NUMBER:	x			· · · · · · · · · · · · · · · · · · ·	
	ADDRESS: 1630	PARK ST				
Phone (714) 734-9137	PO #	NEDA, CA		š/ /		
PHONE: Fax (714) 734-9138	SAMPLED BY:		- 19 20 20 20 20 20 20 20 20 20 20 20 20 20			
Sample ID Date	Time Matrix	Container Number/Size Pres	BTEKNA		Test in:	structions & Comments
1 Total Inlet 3/7/	2 0815 AIR	TEDLAR NON	EXX			
<sup>2</sup> VPE-5	0915					
* DPE-2	0945					
VPE-6	1015					
5 TOTAL INCOL V	1045					
6			V V			
7	·····					······
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15					T060	0100655
					AIR =	PPMN
Total No. of Samples: 5 Meth	od of Shipment:		Preservative:	1= lce 2 =	=HCI 3 =HNO3 4 =H <sub>2</sub> SO4	5 =NaOH 6 =Other
Relinquished by 1. Received By:	1. Relinqu	ished by 2.	Received By:	2.	Relinquished by 3.	Received By: 3.
Signature: Signature:	Signatur	e:	Signature:		Signature:	Signature:
Printed Name: NOEL SHENOI Printed Name:	Printed I	Name:	Printed Name:		Printed Name:	Printed Name:
3/211 lime: Date: $3/12/12$	Time:	Time:	Date:	Time:	Date: Time:	Date: Time:



Client:

Address:

## Associated Laboratories

806 N. Batavia - Orange, CA 92868 Tel (714)771-6900 Fax (714)538-1209 www.associatedlabs.com Info@associatedlabs.com



Lab Request: 301601 Report Date: 03/29/2012 Date Received: 03/23/2012

Client ID: 9977

Attn: Noel Shenoi Comments: Good Cheverolet 1630 Park St., Alameda

Calclean

#142

3002 Dow Ave.

Tustin, CA 92780

Global ID: T0600100655

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods indicated on the attached report and all NELAC criteria. This cover letter is an integral part of the final report.

**Client Sample ID** Sample # 301601-001 DPE-9 3/14/2012 Total Inlet 3/14/2012 301601-002 301601-003 Total Inlet 3/21/2012 DPE-5 301601-004 301601-005 DPE-8 DPE-9 3/21/12 301601-006 301601-007 **DPE-10** 

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare. Ph.D. Lab Director

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 45 days from date reported.

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TESTING & CONSULTING Chemical Microbiological Environmental

Sample #:	301601-001	Client:	Calclean
Matrix:	Air	Client Sample #:	DPE-9 3/14/2012
Collect Date:	03/14/12	Site:	
Collect Time:	13:00	Collector:	client

Compound	F	Result	DF	RDL	Units Analysis Date Analyst		
Method: EPA 8015B	Prep Method:	Method			QCBatchID:	QC1124659	
TPH Gasoline Vppm		2800	50	250	Vppm	03/24/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchID:	QC1124660	
Benzene Vppm		64	50	0.5	Vppm	03/24/12	sandyw
Ethylbenzene Vppm		22	50	0.5	Vppm	03/24/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		130	50	5	Vppm	03/24/12	sandyw
Toluene Vppm		100	50	0.5	Vppm	03/24/12	sandyw
Xylenes (Total) Vppm		110	50	1.5	Vppm	03/24/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 301601 Page 2 of 8
Sample #:	301601-002	Client:	Calclean
Matrix:	Air	Client Sample #:	Total Inlet 3/14/2012
Collect Date:	03/14/12	Site:	
Collect Time:	13:05	Collector:	client

Compound		Result	DF	RDL	Units Analysis Date Analyst		
Method: EPA 8015B	Prep Method:	Method			QCBatchID:	QC1124659	
TPH Gasoline Vppm		2500	50	250	Vppm	03/24/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchID:	QC1124660	
Benzene Vppm		68	50	0.5	Vppm	03/24/12	sandyw
Ethylbenzene Vppm		20	50	0.5	Vppm	03/24/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		120	50	5	Vppm	03/24/12	sandyw
Toluene Vppm		92	50	0.5	Vppm	03/24/12	sandyw
Xylenes (Total) Vppm		92	50	1.5	Vppm	03/24/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 301601 Page 3 of 8

Sample #:	301601-003	Client:	Calclean
Matrix:	Air	Client Sample #:	Total Inlet 3/21/2012
Collect Date:	03/21/12	Site:	
Collect Time:	08:05	Collector:	client

Compound F		Result	DF	RDL	Units Analysis Date Analyst			
Method: EPA 8015B	Prep Method:	Method			QCBatchID:	QC1124659		
TPH Gasoline Vppm		2700	50	250	Vppm	03/24/12	sandyw	
Method: EPA 8021B	Prep Method:	Method			QCBatchID:	QC1124660		
Benzene Vppm		62	50	0.5	Vppm	03/24/12	sandyw	
Ethylbenzene Vppm		25	50	0.5	Vppm	03/24/12	sandyw	
Methyl-t-butyl Ether (MTBE) Vppm		110	50	5	Vppm	03/24/12	sandyw	
Toluene Vppm		100	50	0.5	Vppm	03/24/12	sandyw	
Xylenes (Total) Vppm		130	50	1.5	Vppm	03/24/12	sandyw	

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 301601 Page 4 of 8

Sample #:	301601-004	Client:	Calclean
Matrix:	Air	Client Sample #:	DPE-5
Collect Date:	03/21/12	Site:	
Collect Time:	08:15	Collector:	client

Compound	F	lesult	DF	RDL	Units Aı	nalysis Date	e Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchID:	QC1124659	
TPH Gasoline Vppm		940	25	125	Vppm	03/24/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchID:	QC1124660	
Benzene Vppm		5.4	25	0.25	Vppm	03/24/12	sandyw
Ethylbenzene Vppm		16	25	0.25	Vppm	03/24/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		2.8	25	2.5	Vppm	03/24/12	sandyw
Toluene Vppm		57	25	0.25	Vppm	03/24/12	sandyw
Xylenes (Total) Vppm		110	25	0.75	Vppm	03/24/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit D



Analytical Results Report Lab Request 301601 Page 5 of 8

Sample #:	301601-005	Client:	Calclean
Matrix:	Air	Client Sample #:	DPE-8
Collect Date:	03/21/12	Site:	
Collect Time:	08:25	Collector:	client

Compound	F	Result	DF	RDL	Units A	nalysis Date	e Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchID	QC1124659	
TPH Gasoline Vppm		2600	50	250	Vppm	03/24/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchID	QC1124660	
Benzene Vppm		54	50	0.5	Vppm	03/24/12	sandyw
Ethylbenzene Vppm		21	50	0.5	Vppm	03/24/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		84	50	5	Vppm	03/24/12	sandyw
Toluene Vppm		92	50	0.5	Vppm	03/24/12	sandyw
Xylenes (Total) Vppm		110	50	1.5	Vppm	03/24/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 301601 Page 6 of 8

Sample #:	301601-006	Client:	Calclean
Matrix:	Air	Client Sample #:	DPE-9 3/21/12
Collect Date:	03/21/12	Site:	
Collect Time:	08:35	Collector:	client

Compound		Result	DF	RDL	Units Analysis Date Analyst			
Method: EPA 8015B	Prep Method:	Method			QCBatchID:	QC1124659		
TPH Gasoline Vppm		3400	50	250	Vppm	03/24/12	sandyw	
Method: EPA 8021B	Prep Method:	Method			QCBatchID:	QC1124660		
Benzene Vppm		69	50	0.5	Vppm	03/24/12	sandyw	
Ethylbenzene Vppm		23	50	0.5	Vppm	03/24/12	sandyw	
Methyl-t-butyl Ether (MTBE) Vppm		130	50	5	Vppm	03/24/12	sandyw	
Toluene Vppm		110	50	0.5	Vppm	03/24/12	sandyw	
Xylenes (Total) Vppm		120	50	1.5	Vppm	03/24/12	sandyw	
***************************************								

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit DF



Analytical Results Report Lab Request 301601 Page 7 of 8

Sample #:	301601-007	Client:	Calclean
Matrix:	Air	Client Sample #:	DPE-10
Collect Date:	03/21/12	Site:	
Collect Time:	08:45	Collector:	client

F	Result	DF	RDL	Units A	nalysis Dat	e Analyst
rep Method:	Method			QCBatchID	: QC1124659	
	2900	50	250	Vppm	03/24/12	sandyw
rep Method:	Method			QCBatchID	: QC1124660	
	68	50	0.5	Vppm	03/24/12	sandyw
	20	50	0.5	Vppm	03/24/12	sandyw
	130	50	5	Vppm	03/24/12	sandyw
	100	50	0.5	Vppm	03/24/12	sandyw
	74	50	1.5	Vppm	03/24/12	sandyw
	F rep Method: rep Method:	Resultrep Method:Method29002900rep Method:Method682013010074	Result         DF           rep Method:         Method           2900         50           rep Method:         Method           68         50           20         50           130         50           100         50           74         50	Result         DF         RDL           rep Method:         Method         2900         50         250           rep Method:         Method         68         50         0.5           20         50         0.5         20         50         0.5           130         50         5         100         50         0.5           74         50         1.5         1.5         1.5	Result         DF         RDL         Units         A           rep Method:         Method         QCBatchID         QCBatchID         2900         50         250         Vppm           2900         50         250         Vppm         QCBatchID         68         50         0.5         Vppm           20         50         0.5         Vppm         20         50         0.5         Vppm           130         50         5         Vppm         100         50         0.5         Vppm           74         50         1.5         Vppm         1.5         Vppm         1.5         Vppm	Result         DF         RDL         Units         Analysis Date           rep Method:         Method         QCBatchID:         QC1124659           2900         50         250         Vppm         03/24/12           rep Method:         Method         QCBatchID:         QC1124660           68         50         0.5         Vppm         03/24/12           20         50         0.5         Vppm         03/24/12           130         50         5         Vppm         03/24/12           100         50         0.5         Vppm         03/24/12           74         50         1.5         Vppm         03/24/12

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 301601 Page 8 of 8

#### ASSOCIATED LABORATORIES

806 North Batavia = Orange, CA 92868 Phone: (714) 771-6900 = Fax: (714) 538-1209



Chain of Custody	/ Record
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Lab Job No.	301600
Page	of

CUSTOMER INFORMAT	ON		PROJEC	T INFORMATION		REQUIRED TURN ARC			RN AROUND TIME: Standard:							
COMPANY CalClean Inc.		PROJECT NAM	E GOD	D CHEVE	20 LE	7			72 +	lours:			_48 Ho	urs:	24 Hours:	
SEND REPORT TO: 3002 Dow, #142		NUMBER:			7											
EMAIL:		ADDRESS:	630	PARK	ST		15	5/	L'T	12	/	7			***	
ADDRESS: NOEL SHEI		F	+LAN	EDA, C	A		13	5	\$7		' /	' /		1		
Phone (714) 734-	9137	P.O. #:	و	,		$\Box$ /	5/2	S/4		2/		/				
PHONE: Fax (714) 734-	9138	SAMPLED BY:		•			/0/			/		[ ]	'. /			
Sample ID	Date	Time	Matrix	Container Number/Size	· Pres	. HIN	4/4/18			/			.	Test ins	structions 8	Comments
1DPE-9	3/14/1:	2 1300	AIR	TEDLAR	NON	ΕX	M	<u> </u>		ſſ	<u> </u>	-1				
2 TOTAL TALET		1305				$\neg$						-t			,	· · · · · · · · · · · · · · · · · · ·
3 TOJA - Tolet	3/21/12	2 10805		· · · · · · · · · · · · · · · · · · ·		-++										
ADPE-5		0815										$\neg \uparrow$				
5 DPE-8		0825														
· DPF-9		N835				++								· · · ·		· · ·
7 DPF -10		0845	1	1								·				
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Total No. of Samples:	Metho	d of Shiome	ent:			Pro			1 100					4 . 11 00	5 N-0U	0.04
Relinquished by 1. Re	ceived By:	1.	Relinqui	shed by	2.	Receive	d By:		1-108	2 =	Relir	ים nquish	ed by	$4 = \Gamma_2 \circ U_4$	Received By	6 = Uther : 3.
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Date: Time: Date: $3/23/11$		Time:	Date:	Time:		Date:			Time:		Date	:		Time:	Date:	Time:
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## Associated Laboratories

806 N. Batavia - Orange, CA 92868 Tel (714)771-6900 Fax (714)538-1209 www.associatedlabs.com Info@associatedlabs.com



Lab Request: 302256 Report Date: 04/10/2012 Date Received: 04/05/2012

Client ID: 9977

Client: Calclean Address: 3002 Dow Ave. #142 Tustin, CA 92780 Attn: Noel Shenoi

Comments: Good Chevrolet 1630 Park St., Alameda, CA Global ID: T0609700807

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods indicated on the attached report and all NELAC criteria. This cover letter is an integral part of the final report.

Sample #Client Sample ID302256-001Total Inlet 3/28/12302256-002Total Inlet 4/4/12302256-003DPE-11302256-004DPE-10302256-005DPE-9302256-006DPE-8

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare Ρĥ.D. Lab Director

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 45 days from date reported.

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TESTING & CONSULTING Chemical Microbiological Environmental

Sample #:	302256-001	Client:	Calclean
Matrix:	Air	Client Sample #:	Total Inlet 3/28/12
Collect Date:	03/28/12	Site:	
Collect Time:	12:05	Collector:	client

Compound	Resu	lt DF	RDL	Units A	Analysis Date	Analyst
Method: EPA 8015B	Prep Method: Met	hod		QCBatchI	<b>D:</b> QC1125080	
TPH Gasoline Vppm	3100	50	250	Vppm	04/06/12	sandyw
Method: EPA 8021B	Prep Method: Met	hod		QCBatchI	D: QC1125081	
Benzene Vppm	17	50	0.5	Vppm	04/06/12	sandyw
Ethylbenzene Vppm	29	50	0.5	Vppm	04/06/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm	27	50	5	Vppm	04/06/12	sandyw
Toluene Vppm	14	50	0.5	Vppm	04/06/12	sandyw
Xylenes (Total) Vppm	110	50	1.5	Vppm	04/06/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 302256 Page 2 of 7

Sample #:	302256-002	Client:	Calclean
Matrix:	Air	Client Sample #:	Total Inlet 4/4/12
Collect Date:	04/04/12	Site:	
Collect Time:	12:05	Collector:	client

Compound	R	lesult	DF	RDL	Units /	Analysis Date	Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchll	D: QC1125080	
TPH Gasoline Vppm	2	2900	50	250	Vppm	04/06/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchl	D: QC1125081	
Benzene Vppm		15	50	0.5	Vppm	04/06/12	sandyw
Ethylbenzene Vppm		27	50	0.5	Vppm	04/06/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		25	50	5	Vppm	04/06/12	sandyw
Toluene Vppm		51	50	0.5	Vppm	04/06/12	sandyw
Xylenes (Total) Vppm		110	50	1.5	Vppm	04/06/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 302256 Page 3 of 7

Sample #:	302256-003	Client:	Calclean
Matrix:	Air	Client Sample #:	DPE-11
Collect Date:	04/04/12	Site:	
Collect Time:	12:15	Collector:	client

Compound	F	Result	DF	RDL	Units /	Analysis Date	Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchl	D: QC1125080	
TPH Gasoline Vppm		1300	25	125	Vppm	04/06/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchll	D: QC1125081	
Benzene Vppm		4.2	25	0.25	Vppm	04/06/12	sandyw
Ethylbenzene Vppm		20	25	0.25	Vppm	04/06/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		3.8	25	2.5	Vppm	04/06/12	sandyw
Toluene Vppm		38	25	0.25	Vppm	04/06/12	sandyw
Xylenes (Total) Vppm		100	25	0.75	Vppm	04/06/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 302256 Page 4 of 7

Sample #:	302256-004	Client:	Calclean
Matrix:	Air	Client Sample #:	DPE-10
Collect Date:	04/04/12	Site:	
Collect Time:	12:25	Collector:	client

Compound	Result	DF	RDL	Units /	Analysis Date	Analyst
Method: EPA 8015B	Prep Method: Method			QCBatchl	D: QC1125080	
TPH Gasoline Vppm	2100	50	250	Vppm	04/06/12	sandyw
Method: EPA 8021B	Prep Method: Method			QCBatchl	D: QC1125081	
Benzene Vppm	13	50	0.5	Vppm	04/06/12	sandyw
Ethylbenzene Vppm	24	50	0.5	Vppm	04/06/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm	31	50	5	Vppm	04/06/12	sandyw
Toluene Vppm	54	50	0.5	Vppm	04/06/12	sandyw
Xylenes (Total) Vppm	150	50	1.5	Vppm	04/06/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 302256 Page 5 of 7

Sample #:	302256-005	Client:	Calclean
Matrix:	Air	Client Sample #:	DPE-9
Collect Date:	04/04/12	Site:	
Collect Time:	12:35	Collector:	client

Compound	R	esult	DF	RDL	Units	Analysis Date	e Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchl	D: QC1125080	
TPH Gasoline Vppm	2	2700	50	250	Vppm	04/06/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchl	D: QC1125081	
Benzene Vppm		18	50	0.5	Vppm	04/06/12	sandyw
Ethylbenzene Vppm		25	50	0.5	Vppm	04/06/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		44	50	5	Vppm	04/06/12	sandyw
Toluene Vppm		83	50	0.5	Vppm	04/06/12	sandyw
Xylenes (Total) Vppm		91	50	1.5	Vppm	04/06/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 302256 Page 6 of 7

Sample #:	302256-006	Client:	Calclean
Matrix:	Air	Client Sample #:	DPE-8
Collect Date:	04/04/12	Site:	
Collect Time:	12:45	Collector:	client

Compound	Result	DF	RDL	Units /	Analysis Date	Analyst
Method: EPA 8015B	Prep Method: Method			QCBatchl	D: QC1125080	
TPH Gasoline Vppm	1600	50	250	Vppm	04/06/12	sandyw
Method: EPA 8021B	Prep Method: Method			QCBatchl	D: QC1125081	
Benzene Vppm	14	50	0.5	Vppm	04/06/12	sandyw
Ethylbenzene Vppm	17	50	0.5	Vppm	04/06/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm	31	50	5	Vppm	04/06/12	sandyw
Toluene Vppm	70	50	0.5	Vppm	04/06/12	sandyw
Xylenes (Total) Vppm	110	50	1.5	Vppm	04/06/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 302256 Page 7 of 7

ASSOCIATED LABORATORI	ord									2001	$\subset$								
806 North Batavia • Orange, CA 92868 Phone: (714) 771-6900 • Fax: (714) 538	-1209		6	000 (G	Par	pot zks	et † •		(	UA	ł			-	L P	ab Job No age	e of		
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### Associated Laboratories

806 N. Batavia - Orange, CA 92868 Tel (714)771-6900 Fax (714)538-1209 www.associatedlabs.com Info@associatedlabs.com



Lab Request: 302788 Report Date: 04/25/2012 Date Received: 04/16/2012

Client ID: 9977

Client: Calclean Address: 3002 Dow Ave. #142 Tustin, CA 92780 Attn: Noel Shenoi

Comments: Good Chevrolet 1630 Park St., Alameda, CA Global ID: T0600100655

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods indicated on the attached report and all NELAC criteria. This cover letter is an integral part of the final report.

Sample #Client Sample ID302788-001Total Inlet

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by, Edward S. Behare ĥΟ Lab Director

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 45 days from date reported.

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TESTING & CONSULTING Chemical Microbiological Environmental

Sample #:	302788-001	Client:	Calclean
Matrix:	Air	Client Sample #:	Total Inlet
Collect Date:	04/11/12	Site:	
Collect Time:	08:15	Collector:	client

Compound	F	Result	DF	RDL	Units A	Analysis Date	<u>Analyst</u>
Method: EPA 8015B	Prep Method:	Method			QCBatchl	<b>D:</b> QC1125441	
TPH Gasoline Vppm		560	10	50	Vppm	04/18/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchl	<b>D:</b> QC1125442	
Benzene Vppm		1.5	10	0.1	Vppm	04/18/12	sandyw
Ethylbenzene Vppm		6.0	10	0.1	Vppm	04/18/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		2.9	10	1	Vppm	04/18/12	sandyw
Toluene Vppm		19	10	0.1	Vppm	04/18/12	sandyw
Xylenes (Total) Vppm		57	10	0.3	Vppm	04/18/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 302788 Page 2 of 2

ASSO 806 Norti Phone: ()	<b>CIATED LABORATO</b> th Batavia • Orange, CA 928 714) 771-6900 • Fax: (714)	<b>PRIES</b> 538-1209		Cha	in of Cus	tody F	Rec	or	d						L	ab Job No of
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Client:

## Associated Laboratories

806 N. Batavia - Orange, CA 92868 Tel (714)771-6900 Fax (714)538-1209 www.associatedlabs.com Info@associatedlabs.com



Lab Request: 303090 Report Date: 04/26/2012 Date Received: 04/20/2012

Client ID: 9977

Address: 3002 Dow Ave. #142 Tustin, CA 92780 Attn: Noel Shenoi

Calclean

Comments: Good Chevrolet 1630 Park St., Alameda Global ID T0600100655

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods indicated on the attached report and all NELAC criteria. This cover letter is an integral part of the final report.

Sample #Client Sample ID303090-001Total Inlet

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare Lab Director

NOTE: Unless notified in writing , all samples will be discarded by appropriate disposal protocol 45 days from date reported.

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

TESTING & CONSULTING Chemical Microbiological Environmental

Sample #:	303090-001	Client:	Calclean
Matrix:	Air	Client Sample #:	Total Inlet
Collect Date:	04/18/12	Site:	
Collect Time:	08:15	Collector:	client

Compound	R	lesult	DF	RDL	Units /	Analysis Date	Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchl	D: QC1125528	
TPH Gasoline Vppm	1	1500	50	250	Vppm	04/22/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchl	D: QC1125529	
Benzene Vppm		12	50	0.5	Vppm	04/22/12	sandyw
Ethylbenzene Vppm		22	50	0.5	Vppm	04/22/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		14	50	5	Vppm	04/22/12	sandyw
Toluene Vppm		59	50	0.5	Vppm	04/22/12	sandyw
Xylenes (Total) Vppm		120	50	1.5	Vppm	04/22/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 303090 Page 2 of 2

#### ASSOCIATED LABORATORIES

806 North Batavia • Orange, CA 92868 Phone: (714) 771-6900 • Fax: (714) 538-1209



# **Chain of Custody Record**

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### Associated Laboratories

806 N. Batavia - Orange, CA 92868 Tel (714)771-6900 Fax (714)538-1209 www.associatedlabs.com Info@associatedlabs.com



Lab Request: 303479 Report Date: 05/07/2012 Date Received: 04/30/2012

Client ID: 9977

Client: Calclean Address: 3002 Dow Ave. #142 Tustin, CA 92780 Attn: Noel Shenoi

Comments: Good Chevrolet 1630 Park St., Alameda, CA Global ID: T0600100655

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods indicated on the attached report and all NELAC criteria. This cover letter is an integral part of the final report.

Sample #Client Sample ID303479-001Total Inlet303479-002DPE-8303479-003DPE-9303479-004DPE-10303479-005DPE-11

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATØRIES by,

Edward S. Behai "Ph.D. Lab Director

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 45 days from date reported.

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TESTING & CONSULTING Chemical Microbiological Environmental

Sample #:	303479-001	Client:	Calclean
Matrix:	Air	Client Sample #:	Total Inlet
Collect Date:	04/28/12	Site:	
Collect Time:	04:00	Collector:	client

Compound	F	Result	DF	RDL	Units A	Analysis Date	Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchli	<b>D:</b> QC1125769	
TPH Gasoline Vppm		650	10	50	Vppm	04/30/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchl	D: QC1125770	
Benzene Vppm		3.2	10	0.1	Vppm	04/30/12	sandyw
Ethylbenzene Vppm		6.3	10	0.1	Vppm	04/30/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		1.3	10	1	Vppm	04/30/12	sandyw
Toluene Vppm		18	10	0.1	Vppm	04/30/12	sandyw
Xylenes (Total) Vppm		41	10	0.3	Vppm	04/30/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 303479 Page 2 of 6

Sample #:	303479-002	Client:	Calclean
Matrix:	Air	Client Sample #:	DPE-8
Collect Date:	04/28/12	Site:	
Collect Time:	04:10	Collector:	client

Compound	F	Result	DF	RDL	Units /	Analysis Date	e Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchl	D: QC1125769	
TPH Gasoline Vppm		880	10	50	Vppm	04/30/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchl	<b>D:</b> QC1125770	
Benzene Vppm		7.2	10	0.1	Vppm	04/30/12	sandyw
Ethylbenzene Vppm		6.9	10	0.1	Vppm	04/30/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		18	10	1	Vppm	04/30/12	sandyw
Toluene Vppm		35	10	0.1	Vppm	04/30/12	sandyw
Xylenes (Total) Vppm		48	10	0.3	Vppm	04/30/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 303479 Page 3 of 6

Sample #:	303479-003	Client:	Calclean
Matrix:	Air	Client Sample #:	DPE-9
Collect Date:	04/28/12	Site:	
Collect Time:	04:20	Collector:	client

Compound	F	Result	DF	RDL	Units /	Analysis Date	Analyst
Method: EPA 8015B	Prep Method:	Method			QCBatchl	D: QC1125769	
TPH Gasoline Vppm		640	10	50	Vppm	04/30/12	sandyw
Method: EPA 8021B	Prep Method:	Method			QCBatchl	D: QC1125770	
Benzene Vppm		3.4	10	0.1	Vppm	04/30/12	sandyw
Ethylbenzene Vppm		7.2	10	0.1	Vppm	04/30/12	sandyw
Methyl-t-butyl Ether (MTBE) Vppm		4.0	10	1	Vppm	04/30/12	sandyw
Toluene Vppm		31	10	0.1	Vppm	04/30/12	sandyw
Xylenes (Total) Vppm		51	10	0.3	Vppm	04/30/12	sandyw

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 303479 Page 4 of 6

Sample #:	303479-004	Client:	Calclean
Matrix:	Air	Client Sample #:	DPE-10
Collect Date:	04/28/12	Site:	
Collect Time:	04:30	Collector:	client

Compound	F	Result	DF	RDL	Units Analysis Date Analyst				
Method: EPA 8015B	Prep Method:	Method			QCBatchil	<b>D:</b> QC1125769			
TPH Gasoline Vppm		750	10	50	Vppm	04/30/12	sandyw		
Method: EPA 8021B	Prep Method:	Method			QCBatchli	D: QC1125770	*****		
Benzene Vppm		5.5	10	0.1	Vppm	04/30/12	sandyw		
Ethylbenzene Vppm		7.3	10	0.1	Vppm	04/30/12	sandyw		
Methyl-t-butyl Ether (MTBE) Vppm		13	10	1	Vppm	04/30/12	sandyw		
Toluene Vppm		31	10	0.1	Vppm	04/30/12	sandyw		
Xylenes (Total) Vppm		54	10	0.3	Vppm	04/30/12	sandyw		

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 303479 Page 5 of 6

Sample #:	303479-005	Client:	Calclean
Matrix:	Air	Client Sample #:	DPE-11
Collect Date:	04/28/12	Site:	
Collect Time:	04:40	Collector:	client

Compound	F	Result	DF	RDL	Units Analysis Date Analyst				
Method: EPA 8015B	Prep Method:	Method			QCBatchil	<b>D:</b> QC1125769			
TPH Gasoline Vppm		560	10	50	Vppm	04/30/12	sandyw		
Method: EPA 8021B	Prep Method:	Method			QCBatchll	D: QC1125770			
Benzene Vppm		3.0	10	0.1	Vppm	04/30/12	sandyw		
Ethylbenzene Vppm		6.4	10	0.1	Vppm	04/30/12	sandyw		
Methyl-t-butyl Ether (MTBE) Vppm		3.3	10	1	Vppm	04/30/12	sandyw		
Toluene Vppm		27	10	0.1	Vppm	04/30/12	sandyw		
Xylenes (Total) Vppm		46	10	0.3	Vppm	04/30/12	sandyw		

ASSOCIATED LABORATORIES

RDL = Reporting Detection Limit



Analytical Results Report Lab Request 303479 Page 6 of 6

#### ASSOCIATED LABORATORIES



# **Chain of Custody Record**

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ŀ	DPE -	- 10	$\overline{}$			0430											•							
5	DPE-	- 11			•	0440	V	¥		,	丁	$\mathbf{V}$	<u> </u>										×	
5					· · ·				~2															
7							·				1													
3													<u> </u>							· ·				
9										•	+	-	<u> </u>											
0				· · ·									+									· · · · ·		
1											<u> </u>	-									also e	mail 1	< King	5
2																								
3		,		· · · · · · · · · · · · · · · · · · ·							<u> </u>		·	<u> </u>							E			
4						-									<u> </u>						(EDF			` <u>`</u>
5		· · · · ·			-					:				ļ							TO 60	010065	55	
			]									<u> </u>					÷				AIR =	PPMV		
	Total No. of Sampl	es: 5		N	lethod	of Shipme	nt:				Pres	erva	tive:	1=	= Ice	2 =	HCI	3	=HN	103	4 =H₀SO₄	5 = NaOH 6	=Other	
R(	elinquished by	1.	Rece	ived By:		1.	Relinquis	shed by	2.	Rec	eived	By:				2.	Reli	nquis	hed t	by	3.	Received By:		3.
Si	gnature:	ena	, Signa	iture:	Ica	2	Signature	:		Sigr	nature	: .					Sign	ature	:			Signature:	<u> </u>	-
Pr	inted Name: NOEL SN	tenol	Printe	ed Name:	$  _e$	<u>ر</u> ه	Printed N	ame:		Prin	ted N	ame:					Print	ed Na	ame:			Printed Name:	· .	
Di d	ate: <b>4 /30</b> / 11	Time:	Dăte:	130117	Ti	me: 1217	Date:	Tin	10:	Date	9:			Tin	ne:		Date	): 			Time:	Date:	Time:	

CalClean Inc.

### **ATTACHMENT 2**

#### HIGH VACUUM DUAL PHASE EXTRACTION SYSTEM FIELD DATA SHEETS

							8	SVE	or	X	DPE			CalClean Inc.							
Project	Location	: 1630 F	PARK ST	REET			City: /		Α		L.	Site #:	GOOD	CHEVR	OLET		Date: 🤆	51,25	2012	Page 14 of 37	
Client:	BUESTA	ND .							Operato	or (s): <u>/</u>	UCH-									-	
		·								E	XTRA	CTIO	N WEL	LS							
	C	Weli I.D.			IVVE	;-1		DPE	-2		MI	J-Z									Cumul.
	Initial D	epth To V	Vater DTV	π) V (ft)	8:	12	_	8.9	8.89 020			30				-u				Water Meter	Water
Time	Unit	Air	тох	Vapor Inlet	Off/On	ĐTW	Stinger	Off/On	DTW	Stinger	Off/On	DTW	Stinger	Off/On	DTW	Stinger	Off/On	DTW	Stinger	Readings	Extracted
	Vacuum ("Ho.)	Flowrate	(degE)	Conc.	(00000)	( <del>0</del> )	Depth (feet)	(0000)	(4)	Depth	(		Depth			Depth			Depth	units	gats
01/25	(		(dogi)	(Ppiili)	OK1	(11)	13	(ppniv)	(11)	(reet)	(ppmv)	(π)	lfeet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	55900	
1230	24	26	1451	·	748	6	55			+											
1300	24	.27	1453		392	(0	54						<u> </u>							55700	-
1330	24	-27	1451		503	6	52													<b> </b>	
					OFF			ON		14'	<u> </u>										
1335	25	23	1451					528	6	51									<u> </u>		
1405	25	21	1453					673	le	53											
1435	25	23	1452					791	le	51											
			•					OFF			ON		17-								
1440	25	22	1451								462	7	48								
1510	25	24	1453								621	1	47								
1540	25	23	1458								907	7	49								
					ON		13	ON		14-											
1545	20	131	1451	523																	
1600	1-1	163	1457	741	521	6	53	816	le	54	923	7	46								
1700	102	168	1463	81le																	
1700	14	161	652	847																	
1900	10	167	654	852	1																
1000	15	115	671	843	<u>614</u>	6	52	823	3	82_	918	: Le	51							56480	580
	——																				
		175	GTU	<u> </u>			1715					]									
Dor		127	JIAN C T		DUL DUL	201	NITA	Hul	<u>ME</u>	TER .	STAP	<u>r 6</u>	<u>5900</u>	CTAL.	<u> </u>	ok L	Afor	GA	NPLEC	· AS For	-LOW
1630		<u>- 177</u>	$\frac{1}{\sqrt{2}}$	TE-LC	<u></u>	221	M-2		540	1051	n Ir	JLET	Cell	200,	STA	L G	2160	5.1	120E	FF SAMFI	E.C
	<u>. 7</u>		JHE Y	OVER	TO	UAN .	MOT	NE @	174	50,				/							

HIGH VACUUI Project Location: 1630 PARK STREET							UM SVE or X DPE FIELD DATA SHEET													CalCle	an Inc.	
Project Client:	t Location	: 1630 F	PARK ST	REET			City: /	ALMED	A	N	-	Site #:	GOOD	CHEVR	OLET		Date: 2	01 <u>1Z(a</u>	201 <u>2</u>	Page ZA	_of <u>37</u>	
		-						_	Operato	or (s): <u> </u>										1		
		Mall			TOP			520	- 7				WEL	.LS								-
	Screen	Interval:	From-To (	·íft)	Vre			Vre	-6	<u> </u>	<u>r</u> ib	1-2									Cumul.	
	Initial D	epth To V	Vater DTV	V (ft)	8	12		3.8	9		8.30	5			·			•		Water Meter	Water	
Time	Unit Vacuum	Air Flowrate	TOX Temp.	Vapor Inlet Conc.	Off/On	6TW	Stinger Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	units	gals	1
01/21	(' <del>ri</del> g.)		_(deg⊢)	(ppmv)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	<u>(</u> ft)	(feet)	(ppmv)	<u>(</u> ft)	(feet)	55900		
000	15	174	1054	914	1.78	10	5	0M 821	2	02	0N 907		17								L	
680	15	177	1052	930	1.37	10	53	229	3	02	176	6	05		_			_				4
1200	15	T73	651	9510	671	G	52	247	3	27	1024	6	71 64						<u> </u>	57140	1240	4
1600	15	178	655	927	652	6	54	851	3	81	1003	(0	58									-
2000	15	172	657	978	697	le	55	823	3	85	1021	ĺ.	51							67930	7030	- who
01/2	1																			11.00	6030	ľ
0001	15	121	658	964	673	6	52	858	3	87	1009	le	56									1
0800	15	176	652	997	698	6	51	876	3	84	1039	6	53							58490	1590	1350
11600	15	173	654	986	681	6	53	<u>887</u>	3	81	1028	le	51									1
100	15	ורו	651	947	649	6	54	841	3	87	1017	6	52									1
1000	210	114	462	923	641	<u>le</u>	58	828	3	84	1003	le	54							59070	3170	1,140
01/28	15	172	1.68	950	1. 20	1.	5	<b>b</b> .0	0	01		7										]
0800	15	172	1057	977	630	10	51	847	4	91	1021	<u>@</u>	51									1
1200	15	175	657	961	656	<u> </u>	50	007	2	99	1060	6	50							59790	3890	1300
1000	15	176	1053	921	1.79	5	61	0.74	6 F]	96	1013	To	55							· · ·		4
2000	15	174	652	963	1071	5	107	821	7	9U	1031	4	76									
01/29								00(	<u> </u>	1-1		<u>Le</u>	27							60370	4470	1,30
0001	15	173	651	994	689	5	le7	897	1	99	1052	10	58									4
0800	15	171	654	928	652	5	66	836	1	101	1009	6	52							IN OLIO	61110	760
Comm	ents:											10°								01040	5190	

				HI	GH VA	CUU	M		]sve	or	X	]DPE	1   	FIEL	D DA	TA S	HEE	г			CalCle	an Inc.	
	Project I Client: I	Location: BUESTA	: 1630 F \D	PARK ST	REET			City: A	ALMED.	<b>A</b> Operate	or (s): N	ICK	Site #:	GOOD	CHEVR	OLET		Date: 🤄	<u>, 29 1</u>	201 <u>2</u>	Page <u>31</u>	of <u>3</u> 7	
											E	XTRA	СТІОІ	N WEL	LS						1		
			Well I.D			DPE	-1		DPE	2		MI	N-2					<u> </u>		,		Cumul	1
		Screen	Interval:	From-To (	(ft)	07			0												Water Meter	Water	
	Time	Unit	Air	TOX	V (π) Vapor Inlet	Off/On	ÐTW	Stinger	Off/On	5 T DTW	Stinger	Off/On	SC Totw	Stinger	Off/On		Stinger	0500	DTM		Readings	Extracted	-
		Vacuum ("Hol)	Fiowrate	Temp.	Conc.	(00000)	(#)	Depth	(	(8)	Depth	(		Depth			Depth	Oli/On	DIW	Depth	units	gals	
	0129	(19.7		(degr)	(ppnv)		(11)	(1881)	(ppmv)	(π)	(reet)	(ppmv)	(ft)	Ifeet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	55900		4
	1200	15	172	1051	893	628	5	103	807	1	103	989	10	58									-
	1600	15	178	1249	876	607	5	lel	793	1	107	971	6	59									-
	2000	15	177	648	889	614	5	64	799	1	104	979	le.	54							1011090	6790	- mro
	01/30																	<u> </u>			GIGIL		
	0001	15	173	653	914	1031	5	66	821		108	989	Le	55									1
. 4.	0800	15	174	651	949	642	5	68	839	l	102	1007	6	52							62310	6410	1270
¥	1200	15	171	654	978	659	5	67	<u>862</u>		106	1021	le	53									1
	1000	15	174	452	923	448	5	69	841		103	993	6	58									1
	1000	10	178	622	969	603	5	65	851	1	101	1017	<u>le</u>	55						L	62990	7090	1300
	01/51	15	172	1.53	9112	1.27		1.0	01.6														
	000	15	177	1057	970	601	5	107	048	1	104	1004	<u>u</u>	52									
	1200	15	177	651	929	647	5	1.9	827	1	101	1014 aga		22							63560	7660	1250
	1600	15	176	1254	951	6.31	5	63	857	1	100	1017		55								 	4
ļ	2000	15	178	653	961	624	5	107	849	1	103	1073	10	57							111000	<i>A</i>	1.2D
	02/01											1963		26					-		64300	8400	1010
	0001	15	173	652	917	617	5	65	821	1	107	984	(e :	51									
×	0800	15	171	651	894	603	5	67	809	1	104	976	le	53							104 Rom	8942	140
	1100	15	174	652	926	621	5	64	819		103	923	6	56								_0700_	
l	1200	15	178	658	901	611	5	62	805	l	107	947	6	54									1
	Comme	nts: 01	2/01-	UNTER	- SHUT O	all E	2081	15 DI	UE TO	EL	ec. We	DRY A	OR I	CE AM	ERICA	. UN	IT TO	AHED	BACK	ON	@ 1045	u	1
																							-

			HI	GH VA	CUUM SVE or X DPE FIELD DATA SHEET												CalCle	an Inc.				
Project I Client: I	ocation: BUESTA	: 1630 F	PARK ST	REET			City: A	LMED	<b>A</b> Operato	r (s): N	ICH	Site #:	GOOD	CHEVR	OLET		Date:	16,01,	201 <u>Z</u>	Page <u>4</u> 4	of <u>37</u>	
										E	XTRA	CTIO	N WEL	LS						1		
		Well I.D.			DPE	-1		VYE	-2		MW	2									Cumul	1
	Screen	Interval: I	From-To (	ft)	0	77														Water Meter	Water	
Time	Unit	Air	TOX	V (IT) Vapor Inlet	Off/On	DTW	Stinger	Off/On	DTW	Stinger	Off/On	50 DTW	Stinger	Off/On	DTW	Stinger	Off/On DTW Stin		Stinger	Readings	Extracted	Į
	Vacuum ("Hg.)	Flowrate (cfm)	Temp. (degF)	Conc. (ppmv)	(ppmv)	(ft)	Depth (feet)	(ppmv)	(ft)	Depth (feet)	(ppmv)	(ft)	Depth (feet)	(ppmy)	(ft)	Depth (feet)	(00000)	(#)	Depth (feet)	units	gals	
02 01					DN		13	DN		14	ON		17-		(1.)	(1001)		(11)		199100		1
1600	15	174	1051	892	604	5	63	193	1	102	937	6	51							····		1
2000	15	.173	653	876	601	5	67	781	1	104	901	le	52							65610	9710	1310
02/02		مبر. وحدر	1 =	0.0 -	101																	1
12001	10	176	602	877	581	9	64	796	<u> </u>	103	928	6	51									
-	NEXT	VMak	NEW	1092	1	2	<u></u>	112		105	886	le	22							66070	10170	1210
		100019	1.01	W.640 -																		
																						1
						-																1
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Comme	nts: 0	402-	1001	e lotac	INL	ET V	APOR	SAM	PIEC	208	00						_					•

HIGH VACUUM       SVE or       X       DPE       FIELD DATA SHEET       Ca         Project Location:       1630 PARK STREET       City: ALMEDA       I       Site # GOOD CHEVROLET       -       02.02.07       T														CalClea	an Inc.							
Pr Cli	oject l ient: E	_ocation: BUESTA	1630 F D	PARK ST	REET			City: A	ALMED/	<b>A</b> Operato	or (s): <u>k</u>	Iter	Site #:	GOOD	CHEVR	OLET		Date: 2	92 <sub>1</sub> 02 <sub>1</sub>	201 <u>Z</u>	Page 54	of <u>37</u>
											E	XTRA	CTION	N WEL	LS							
		-	Well I.D.			VPE-	4		VPE-	D		VPE-	-11									Cumul
		Screen	Interval: I	From-To (	ft)	10.11	-	0.7	0.1												Water Meter	Water
Г	ïme i	Unit	Air	TOX	V (ft) Vapor Inlet	Off/On	<u>лю.</u> Этw	2 / Stinger	0ff/On	DTW	57 Estinger	10,43	3 <b>//</b> 2	7.79 Stinger	0#/0-	DTM	04	0.770			Readings	Extracted
		Vacuum ("Hg.)	Flowrate (cfm)	Temp. (degF)	Conc. (ppmv)	(ppmv)	(ft)	Depth (feet)		(ft)	Depth (feet)		(#)	Depth	(mmmu)		Depth	Off/On	DTW	Stinger Depth	units	gale
0	2/02					ON		16		(14)	(1000)	(ppinv)	(10)	neer)	(ppinv)	(11)		(ppmv)	(ft)	(feet)	95100	
0	\$10	24	,24	1451		2870																
0	330	24		1452		3520	-							_								
0	900	24	18	1449		4260																
						OFF						ON		17-								
0	905	24	26	1448								1513										
09	135	24	29	1452								2510										
10	05	24	24	1457								3090										
				·					ON		15.5	OFF										
10	10	24	23	1461					7240													
10	40	24	21	1477					10370													
11	10	24	27	1471			·		12010													
						ON		16				on	-	17-								
μ	15	24	81	1474	7940		4	11		15	19		10	35								
1/	45	24	01	1469	8210		4	72		15	23		10	41								
	15	24	81	1458	8420	1.11-	4	76		15	18		10	37								
	000	24	8	1451	1410	4370	Ч	73	12840	15	21	3160	10	39								
ľ	20	_27	64	1451	6170	5670	<u> </u>	71	10070	15	23	60ZO	10	40	_						67400	1500
Co	mme	nts: 0	2/02-	- 100	L VAPON	2941	APLE	5 A 5	Fou	owe	- VF	E-46	209	00, V	IPE-II	@ 1(	205.	VPE-1	De	1110.1	TOTAL INL	ERE
1	215	2,10	MI	hlet i	@160	0			_					1			- 1			<u> </u>		

			HI	GH VA	CUU	M		SVE	or	X	]DPE	1 	FIEL	D DA	TA S	HEE	г			CalCle	an Inc.
Project	Location	: 1630 F	PARK ST	REET			City:		A			Site #:	GOOD	CHEVR	OLET		Date: 4	2 ,3,	201 Z	Bara 6 A	
Client:	BUESTA	D							Operate	or (s):	BER	NAR	DO							rage <u>e 71</u>	_ or /
				2						E	XTRA	CTIO	N WEL	LS							
		Well I.D.			VF	DE-	Ч	VP	PE-1	D	V	DF-	-11				<b>—</b>		_		
	Screen	Interval:	From-To (	(ft)			_				<b></b> *_		11	<u> </u>							Cumul.
Time	Initial D	epth To V	Vater DTV	V (ft)	0.		2.87	9.5	7/1	6.59	10-4	3/1	7.79							Water Meter Readings	Extracted
	Vacuum	Flowrate	Temp.	Conc.	Olivon	DTW	Depth	Off/On	DTW	Stinger	Off/On	DTW	Stinger	Off/On	DTW	Stinger	Off/On	DTW	Stinger		
	("Hg.)	(cfm)	(degF)	(ppmv)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	units 55900	gais
2/03					ON		16'	ON		15.5"	ON		171						(	20 00	
0001	24	05	1451	6100	4970	3	87	9090	14	28	4150	9	48				···				
0800	24	8	1446	5946	5000	3	81	100	14	29	3960	9	45							68790	12000
1200	23	90	1447	6630	5460	3	83	13120	14	30	4150	ġ	46					÷		<u>ev 11-</u>	12090
1600	23	91	1456	6410	4850	3	86	12860	14	28	4980	<u>q</u>	45								
2000	25	92	1451	35 70	5 30	3	87	2140	13	35	5540	q'	47							70150	14250
																				1-150	11230
2/04			Ú h d l																		
0001	23	95	1947	3420	52 <b>90</b>	3	84	650	3	39,	5610	8	50								
0800	23	90	450	5580	5300	_3	81	12390	13	38	<i>5</i> 320	8	52							71380	154 80
1200	23	44	1442	5430	5140	3	84	1170	13	36	4980	B	55								10 100
1600	23	96	1456	5170	5060	3	80	12010	13	34	4920	8	56								
2000	- 4.3	40	1447	4990	5220	3	83	11840	3	37	4760	8	55							72560	16660
							-													10-00	1000-
4/05		0.5		110 (2				· · · ·													
0001	25	75	1444	7860	50 0	3	86	11420	13	37	4360	8	58								
1200	25	44	1756	5020	4460	3	84	1260	13	38	4530	8	56					-		73720	17-870
1600	23	44	<u>1451</u>	7450	4820	3	86	11030	13	3.6	4220	8	54								
1000	45	45	<u>1475</u>	4830	4500	3	84	10930	13	39	4060	8	52								
1000	25	76	14 44	4570	4370	3	83	10560	13	38	4180	8	54							74810	19970
Comme	l				I		I														

			HI	GH VA	CUU	M		SVE,	for	X	DPE		FIEL	D DA	TA S	HEET	г			CalClea	an Inc.	
Project   Client:	Location: BUESTA	1630 F D	PARK ST	REET			City: A	LMED	A Operato	r (s): E	eiln	Site #:	GOOD D	CHEVR	OLET		Date:	Z 1061	201_2_	Page 7A	of <u>3</u> 7	
				-						E	XTRA	спо	N WEL	LS	G							
	·	Well I.D.			VP	E-L	1	VP	E-	10	V	2E-	-11								Cumul	
	Screen	Interval: I	From-To (	ft)		1717	07	(0 F				- 7								Water Meter	Water	
Time	Unit	əptn iov Air	TOX	V (π) Vapor Inlet	UU. Off/On	1/1	2 · 15 / Stinger	Gff/On		5.29 Stinger	l0.4 Off/On		7.79 Stinger	Off/On		Stingor	Office	DTM	Channe	Readings	Extracted	
	Vacuum	Flowrate	Temp.	Conc.		-	Depth			Depth	e n e n	3	Depth		0.00	Depth	01/01	DIW	Depth	units	gals	
2/01	("Hg.)	_(cim)	(deg⊢)	(ppmv)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	ifeet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	55900		
2/00	77	102	1460	1360	7(170	2	0	MUDO	1.2	12.2	UNTO	0	11									
10800	77	105	1460	4180	3470 11150	7	90	10520	13	36		0	55									
1200	22	107	1451	4070	4020	2	97	10720	$\frac{12}{12}$	14	4060	0	55 78							75900	20000	
1600	22	105	1448	3980	3870	2	91	10050	12	40	3920	<u>0</u>	50									
2000	22	102	1452	4010	4050	2	93	10680	12	39	3980	8	52							77030	71170	
																				11030	2430	
2/07																						
000	22	105	1438	3950	3910	2	90	10420	12	39	3980	8	54									
0806	22	104	1446	3890	3960	Z	93	10 50	12	4	4000	8	5							78640	22140	
1200	22	107	453	3920	<u>393</u> 0	2	92	10030	12	40	4020	8	52									
600	22	105	1450	4070	3870	2	94	9960	12	45	<u> 7950</u>	8	55									
2000	22	108	1939	3840	3750	2	90	10020	12	40	3620	8	56							79 170	23270	
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0001	77.	108	1460	2660	21130	2	۵N	9040	15	147	7510		50									
0800	72	103	1447	3780	7560	2	90	9850	12	ЧS ЦГ	2/40	<u> </u>	58							06176		
1200	22	107	1452	3530	3240	. 7	92	9770	12	40	3480	90 ·	-4						·	80110	24270	
1600	22	105	1450	3420	3410	2	95	9870	17.	41	4120	8	50							<u> </u>		
2000	22	102	1449	3460	3370	2	94	9730	12	45	4060	8	52							Q1710	1620	
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Comme	nts: 7	-08	-12	Tot	AL IN	ILET	0	030	340	10 PP	MN).											
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			HI	GH VA	CUU	M		]SVE	or	X	]DPE		FIEL	D DA	TAS	HEE	Г			CalCle	an Inc.	
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Project I Client: I	ocation:	: 1630 F D	PARK ST	REET			City: /	ALMED.	A Operato	or (s): N	JUK.	Site #: -7	600D 67-	CHEVR	OLET		Date:	<u>, 09</u> ,	2017	Page <u>34</u>	of <u>37</u>	
										E	XTRA	CTIOI	N WEL	LS						1		
		Weil I.D			VRE	-4		VPE	-10		VPE	-11				_					Cumul	1
(	Screen	Interval:	From-To (	ft)		110	A-5			<i>T</i> 0		,								Water Meter	Water	
Time	Unit	Air	TOX	V (ft) Vapor Inlet	Off/On	70.7 DTW	Stinger	7:57 Off/On	//6.	57 Stinger	10.43 0ff/0p	7 <u>17</u> ,	74 Stinger	0#/05	DTM	Chinasa	0.810			Readings	Extracted	1
2.	Vacuum ("Hg.)	Flowrate (cfm)	Temp. (degF)	Conc. (ppmv)	(ppmv)	(ft)	Depth (feet)	(ppmv)	(ft)	Depth (feet)	(ppmv)	(ft)	Depth (feet)	(ppmy)	(ft)	Depth (feet)	(ppmy)	UTW (ft)	Stinger Depth	units 65900	gals	ĺ
02/09					ON		16	onl		15.5	ON		17'			(	(PP)		(1001)	7.700		1
0001	22	104	1452	3510	3510	2	90	9740	12	39	3970	8	52							87470	210570	120
080	22.	-106	1453	3740	3640	2	93	9710	12	31	4050	8	54									
1200	22	T03	1451	3680	3690	2	92	9(90	12	39	4110	8	51									1
1600	716	107	1456	3430	3620	6	94	9640	12	40	4080	ő	55									1
au	11	<u>точ</u>	1474	2690	5250	4	91	1670	16	42	4040	ő	53	<u>.</u>			—			83830	27930	2420
02/10																						4
0001	22	101	1451	3070	3D40	2	90	9590	12	43	3918D	8	52									
0800	22	103	1458	3210	3140	Z	93	9570	12	47	3920	3	51							848-10	78970	1100
1200	22	107	1452	3190	3130	2	91	9470	12	45	3970	8	53								00.10	
1600	22	104	1451	3170	3070	2	92	9310	12	43	3990	8	52					···				
2000	22	101	1453	3140	2910	2	91	9280	12	41	3910	8	57							85910	30010	1080
02	20				20.0																	
2001	20	171	1451	5/10	2070	2	93	8140	12	42	<u>3840</u>	Le	61									
12.00	20	134	1450	2070	21,60	2	CI CI	8210	12	47	3610	<u>e</u>	63							87040	31140	2170
11000	20	139	1454	7990	7490	.9	91	1010	16	45	260	le	(a)					2		· · ·		!
2000	20	132	1453	3040	2310	2	97	72100	12	Чи	3070	10	44							0.0		
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Comme	nts:				h			-				_			······							4

			HI	GH VA	CUU	M		<b> SVE</b>	or	X	DPE		FIEL	D DA	TA S	HEE.	Г			CalCle	an Inc.	
Project   Client:	Location: BUESTA	1630 F D	ARK ST	REET			City: A	ALMED.	A Operato	or (s):	sur	Site #:	<b>GOOD</b> 767	CHEVR	OLET		Date: (	02/12/	201 <u>2</u>	Page <u>9</u> A	_of <u>37</u>	
										E	XTRA	стю	N WEL	LS	55		-					
		Well I.D.			VPE-	Ч		VPE	-10		VPE	-11		VPE-	9						Cumul	٦
	Screen	Interval:	From-To (	ft)	10.13	7.1	0	0.4-												Water Meter	Water	
Time	Unitial De	epth To V Air	Vater DTV	V (ft) Vapor Inlet	0,11 Off/On	/ ILL	Stinger	9.57	11e	59 I Stinger	10.43	5/17	1.79	10.24	11.7:	3				Readings	Extracted	
	Vacuum ("Hg.)	Flowrate (cfm)	Temp. (degF)	Conc. (ppmv)	(ppmv)	(ft)	Depth (feet)	(ppmv)	(ft)	Depth (feet)			Depth	(npmy)		Stinger Depth	Off/On	DTW	Stinger Depth	units	gals	
51/20					ON		16-	ON	<u>,</u>	15.5-	ON		17-	(ppint)	(4)	(icel)	(ppinv)	(11)	(teet)	37100		-
1001	20	134	1451	3120	2160	2	93	7740	12	41	3110	6	42									-
800	20	-: 132	1453	3070	2040	2	97	7010	12	43	3940	6	65							89030	33170	
200	20	-133	1457	3160	1973	2	95	1A30	12	42	4070	le	64							0.070		
1200	20	135	1451	3090	1829	2	99	6710	12	44	4010	6	107									
000	20	138	145%	3010	1131	2	98	6480	12	43	3980	le	63							90010	34110	1
2/12																						1
BOO 20 139 1455 2810 1493 2 91 6070 12 47 3910 6 64 0FF 0FF 0N 16																						
<u>800</u>	20	159	1455	2810	1493	L	91	6070	12	47	<i>3910</i>	le	61							90870	34970	1
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100	12	104	1491	5830				6090	12	43	3940	5	73	10100	5	79						1
100	52	101	145'6	5 190		·		6140	12	42	4010	5	74	10270	5	77						1
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114	64	100	1467	5-160				6240	NL	41	4010	5	75	10320	5	75				92180	36280	1
	22	102	1467	1.025				1.100		11.0	lling											
200	29	105	1452	10170				600	12	40	4170	5	710	10470	5	71						
200	17,	107		10090		,		1010	12	42	4020	0	74	10290	5	74				93190	37290	]7
400	77	104	ILK3	1010	┝╼╾┨			10100	12	16	20:0	5	15	10380	2	77						
000	22	INT	UKH	6140			-	100	14		2010	<u> </u>	73	10420	5	75						
			<u></u>	<u>v. iv</u>			<b></b>	6110	14	<u> </u>	<u>~ 14</u> 0	0	1.6	10 580	2	76		`		94170	38270	١
)85	nts: 2/	13- T	bok VA	FOL GA	MPLEA	o Aro	Force		VPE	90	0821	<u>s, v</u>	PE-10	@ 01	345	VPE	-11 @	-081	35, T	OTAL IN	LET®	

				HI	GH VA	CUU	M		]SVE	or	X	]DPE		FIEL	.D DA	TA S	HEE	Г			CalCle	an Inc.	
	Project I Client: I	Location: BUESTA	1630 F D	PARK ST	REET			City: A	ALMED.	<b>A</b> Operato	or (s): A	ber	Site #: ~7	GOOD 167-	CHEVR	OLET		Date: _	2,15,	201 <u>Z</u>	Page <u>104</u>	of <u>37</u>	
											E	XTRA	CTIO	N WEL	LS						1		
			Well I.D.						VPE-	10		VPE	-11		VPE-	-9						Cumul	1
		Screen	Interval:	From-To (	ft)												<u>.</u>				Water Meter	Water	
	Time	Initial De	epth To V Air	Vater DTV	V (ft)	OffiOn	DTW.	Stinger	9.57	16	.59	10.42	2/17	<u>.79</u>	10.24	117.	13				Readings	Extracted	J
		Vacuum ("Hg.)	Flowrate (cfm)	Temp. (degF)	Conc. (ppmv)	(ppmv)	(ft)	Depth (feet)	(ppmv)	(ft)	Depth (feet)	(ppmy)	(ft)	Depth	(opmy)	DTW (fft)	Stinger Depth	Off/On	DTW	Stinger Depth	units	gals	
	02/15								ON		15.6-	ON	(11)	17	(pp. 1		(1001)	(ppinv)	(11)	(reet)	97100	· · ·	4
	6001	22	108	1452	6130				6020	12	43	3670	5	74	10520	5	73						1
¥	0800	22	103	1457	6070				5940	12	45	3510	5	77	10310	6	71				95130	39230	1940
	1200	22	104	1461	6010				5810	12	43	3610	5	73	10240	5	76				1.71.00		-
	1600	22	108	1492	6140				5670	12	47	3610	6	72	10320	5	77						1
	2000	22	109	1457	4030				5510	12	42	3740	5	78	10240	6	75				96140	40240	lanî
	02/14																						
	0001	22	103	1458	5970				5470	12	44	3890	5	74	10370	5	73						1
	0800	12	107	1456	5820				5320	12	45	3770	5	77	10210	5	71				97040	41140	1,910
	1200	22	105	1451	5740				5190	12	43	3630	5	75	000	5	72						
	1600	22	103	1455	5630		L		5010	12	44	3690	5	13	10030	5	77						1
	2000	22	101	1459	5810				5140	12	41	3610	5	74	<b>9</b> 910	5	וך				98070	42170	1930
	02/17																						
	0001	22	102	1463	5770		•		5010	12	44	3620	5	74	9830	5	74						
	0800	22	104	1452	5240				4810	12	45	3580	5	75	9540	5	11				agaan	113080	,940
	1200	22	103	1452	5130				4740	12	42	3410	5	73	9430	5	12		_		10100	47000	
• ]	1600	22	104	1451	5050				4120	12	43	3370	5	74	8070	5	71						
	2000	22	107	1454	5410				4560	12	46	3510	5	74	8120	5	73				99980	44080	1910
l	 Comme	(				<b>I</b>				,							_						ł

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			HI	GH VA	CUU	М		]SVE	or	X	]DPE		FIEL	D DA	TA S	HEE.	r			CalCle	an Inc.	
Project I Client:	ocation	1630   D	PARK ST	REET			City: /	ALMED	<b>A</b> Operato	r (a). N	ICL	Site #:	GOOD 167-	CHEVR	OLET		Date: (	0Z1181	201 <u>Z</u>	Page 114	of <u>37</u>	
									operate	E	XTRA	CTIO	N WEL	LS						1		
		Well I.D						VPE	-10		UPE	-11		VPE	-9			<u>.</u>		<u> </u>	Cumul	1
	Screen	Interval:	From-To (	ft)				1									<b>—</b> —			Water Motor	Water	
Time	Initial D	epth To \	Vater DTV	V (ft)	050-	(D) THAT		9.57	116	.59	10.43	117	1.79	10.24	4/17.	73				Readings	Extracted	1
71116	Vacuum ("Hg.)	Flowrate (cfm)	Temp. (degF)	Conc.		(ft)	Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	units	gals	
18						(,	(	ON	(14)	15.5		(10)			(π)		(ppmv)	(#)	(feet)	25100		
0001	22	104	1457	5610			<u> </u>	4760	17	41	2490	5	71	8010	-	14						
0800	22	-107	1461	5370				AL-10	17	44	2310	5	77	8630	2	71.				1000	116 11 1	
1200	Toto	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$															100416	45070	19-10			
1600	22	$\begin{array}{c c c c c c c c c c c c c c c c c c c $																				
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	122     103     1451     4930     4410     12     43     3140     5     74     8240     5     710     101950       10     10     12     143     3140     5     74     8240     5     710     101950															46050	1-(10					
02/19	Mail     Mail																					
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0800	×1 22 101 1453 4860 4620 12 41 3190 5 73 8110 5 73 20 22 102 1457 4420 4690 12 43 3040 5 71 102900 47000															1930						
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1600	22	103	1452	4390				4530	12	45	2940	5	75	7720	5	71						
2000	22	105	1456	4550				4590	1Z	41	2830	6	76	7810	5	12				103900	48000	195D
02/20																			<u> </u>			
0001	22	107	1455	4320				4440	12	40	2760	5	74	7690	5	71						
0800	22	106	1453	4780				4320	12	47	2650	5	73	7430	5	74				105030	49130	2130
1200	22	109	1457	4360		-		4290	12	46	2520	5	71	7280	5	73				<u></u>	10.20	
1600	22	108	1454	4030				4220	12	43	2490	5	72	7120	5	72						
2000	22	104	1451	4250				4190	12	44	2320	5	75	7010	5	71				105970	50070	2070
	nts: 8	120-	Took	- Tot,	AL I	NLET	VAP	or C	>Ami		D 02	305										* -

			HI	GH VA		M		SVE	or	X	]DPE		FIEL	D DA	TAS	HEE	Т			CalCle	an Inc.	
Proje Clien	ct Locati : BUES	on: 1630 TAD	PARK ST	REET			City: A	LMED	A Operato	or (s): 1	<u>trak</u>	Site #:	<b>GOOD</b> •76-	CHEVR	OLET		Date:	<u>021211</u>	201 <u>Z</u>	Page 124	of <u>3</u> ]	
										E	XTRA	стю	N WEL	LS						}		
		Weli I.C	).		VRE-	8		VPE	-10		VPE	-11		VPE	-9						Channel	1
	Scre	en Interval:	From-To	(ft)					1943 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 -								<u> </u>			Water Meter	Water	L 1
Tim	Initial	Depth To	Water DT	N (ft) T Vapar Inlet	9.80	e /	1.74	9.5	2/16	59	10,43	5 <i>/1</i> 7	,79	10.24	1/17	73		1		Readings	Extracted	1
	Vacui	um Flowrate	Temp.	Conc.	Oli/On	- DIW	Depth	Union		Depth	Off/On		Stinger	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	unite	aste	]
	("Hg	.) (cfm)	(degF)	(ppmv)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	55900	gais	ł –
02/	-1							ON		15.5	ON		17	ON		Ne						1
000	1 27	- 103	1451	4130				4030	12	41	2230	5	72	1930	5	73						1
¥ 680	<del>v</del> 22	107	1452	3970				3840	12	43	2010	5	71	6770	5	76				107060	51160	2030
120	27	ia	1457	4090				3710	12	42	2130	5	73	6710	5	75						1
160	0 22	103	1451	3910				<u>3930</u>	12	44	2070	5	71	6650	5	74						1
1/00	2/27 08/20 08/20 08/20 08/20 07/20 05 72 6530 5 75 07/20 52080 21															2010						
	$\frac{1}{2\sqrt{22}}$															1						
02/1	2/52 1001 22 104 1451 3710 3770 12 41 2060 5 71 6420 5 73 1000 22 108 1451 3510 3170 12 41 2060 5 71 6420 5 73															1						
000	001     22     104     1451     3710     3770     12     41     2060     5     71     6420     5     73       800     22     108     1456     3510     3640     12     43     2010     5     73     109100     53700     109100     53700     109100     53700     109100															1						
Ro	BOD         22         108         145/2         3510         3770         12         43         20/20         5         73         109/100         53200         2           BOD         22         108         145/2         3510         31/40         12         43         20/0         5         73         109/100         53200         2           OFF         0FF         0FF         0FF         0FF         109/100         53200         2															2040						
	200         201         100         1400         0510         300         12         43         2010         5         73         6150         5         75         109100         53200         2           430         2.5         2.1         1452         2070         0FF         0FF         0 <t< td=""><td>1</td></t<>															1						
143	130 25 21 1452 OFF OFF OFF															1						
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150	15	23	1458											7030								1
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164	23	231	1459		6720	£		0N		15.5	ON		17	MO		16						ł
160	20	156	1453	5110	6810			4960	9	51	2190	3	94	6710	4	86						
200	020	152	1451	5470	6930			3810	9	53	2140	3	92	6230	4	81				109820	53920	1840
			I	<u> </u>		<u>.</u>						_										
Com	nents: (	02/22.	- Tool	L VAPO	r Sa	MPLE	51	10 F	GLE	ws	- V1	PE-1	CI	430.	VPE	-10@	144	5. VI	25-9	@ 1500		1
<u></u>	-80	2151	15, 1	oth ?	INCE	<u>+ Q</u>	-160	$\infty$ .						-;				<u> </u>	<u> </u>	- 100		
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Project	Location	1630 F	PARK ST	REET			City: A		A		Ι	Site #:	GOOD	CHEVR	OLET		Date:	121231	201 <u>Z</u>	Page 3	6,37	
Client:	BUESTA	D							Operato	or (s): <u>N</u>	TUK	~``	767	-								
				-						E	XTRA	СТЮІ	N WEL	LS	$\gamma_{4}$					]		
	r	Well I.D			VPE	-8		VPE	-10		VPE	-11		VPE-	9			-			Cumut	1
	Screen	Interval:	From-To (	<u>ft)</u>	<u> </u>															Water Meter	Water	
Time	Unitial D	epth lov Air	Vater DTV	V (ft) Vapor inlet	Cff/On	DTW	74 Stinger	9,57 Off/On		57 Estinger	10.43	17.	79	10.24	1/17.	73	0///0			Readings	Extracted	
	Vacuum ("Ho.)	Flowrate (cfm)	Temp.	Conc.	(onmy)	(ff)	Depth	(nomy):	(#)	Depth (feet)			Depth	/on/On		Depth	Off/On	DTW	Stinger Depth	units	gals	
02/23	(		(	(++++++)	ON	(11)	17	ON	(19	15.5	ON		17	(ppmv)	(π)	(Teet)	(ppmv)	(ft)	(feet)	55 100	· ·	
0001	20	153	1453	5740	7020			3590	9	54	2060	3	95	1.070	4	83						1
0800	20	_152	1451	5390	7140			3420	9	51	1970	3	91	5920	4	86				111/02.0	66.20	910
1200	20	-157	1457	5410	7280			3520	9	55	1880	3	94	5810	4	84				11010	22110	
16.00	20	1.54	1455	5630	7340			3690	9	53	2010	3	93	5970	4	87						1
2000	20	158	1451	5620	7210			3440	9	52	1910	3	91	6030	4	89				111890	55990	2010
			ļ										•									ľ
02/24														_								1
0601	20	156	1458	5390	0915			3210	9	54	1830	3	95	6140	4	88						1
0800	20	164	1453	5270	6930			3370	9	51	1640	3	94	6210	4	82				113210	57310	2140
1200	20	158	1451	5460	6990			3410	9	53	1720	3	91	6370	4	81						1 1
1000	20	157	1453	5580	7140		<u> </u>	3540	9	51	1670	3	97	6240	4	84				14		
aco	20	201	1457	5510	6730			3430	9	57	1550	2	94	6130	4	82				114020	58120	2130
02/26	<u> </u>																					
0001	20	154	1451	5430	6870			3320	9	56	1310	3	91	1070	4	Q1.						
0800	20	153	1455	5390	6910			3170	9	54	1291	3	91	5940	-	83		. ,		115100	6920-	1070
1200	20	151	1457	6270	6840			3410	9	55	1228	3	91	5870	4	87		· · · · ·		113600	37580	1
1600	20	152	1453	6330	6990			3370	9	57	11391	3	93	51.30	4	84						{
2000	20	155	1455	5210	6810			3290	9	51	1023	3	95	4180	4	85				116130	60230	210
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			HI	GH VA	CUUI	M		]SVE	or	X	]DPE		FIEL	D DA	TA S	HEET	Г	τi		CalCle	an Inc.	
Project   Client:	Location: BUESTA	: 1630 F D	PARK ST	REET			City: A	ALMED	<b>A</b> Operato	or (s): N	Tek	Site #:	600D 747	CHEVR	OLET		Date:	21269	201 <u>Z</u>	Page <u>14</u>	A or 37	
										E	XTRA	CTIO	N WEL	LS								
		Well I.D.			VPE -	8		VPE	10		VPE.	-11		VPE-	9			-			Gumul	1
	Screen	Interval: I	From-To (	ft)	0.01															Water Meter	Water	
Time	Initial D	epth To V Air	Vater DTV	V (ft) Vapor Inlet	off/On	DTW	74 Stinger	9.57 Off/On	DTW	59 Stinger	(0,47	5/17.	7 <u>9</u>	10.24	1 /17	1,73	0.00			Readings	Extracted	1
	Vacuum	Flowrate	Temp.	Conc.			Depth		0	Depth			Depth		DIW	Depth	Oπ/On	DIW	Stinger Depth	units	gals	
- day	("Hg.)	(cm)	(degF)	(ppmv)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	55900		
04 the	70	1510	1465	6370	UM 174			2130	a	15.7	ON	2		ON		10						
0800	20	154	1453	5260	6170			300	a	76	1010	3	77 G,	6920	4	01				1.071		0,00
1200	2.0	-161	1458	5210	660	·		2970	9	63	937	13	97	5110	4	00 01				117340	61440	-2000-
1600	20	152	1452	5130	1070			791D	9	55	968	3	96	6710	4	93						
2000	20	154	1455	5040	6580			2940	9	54	936	3	93	5540	4	81				118310	107420	1,40
															<u> </u>					1.0510	102410	
02/27																						1
1000	20	150	1458	4980	6430			2910	9	51	921	3	94	5430	4	82						1
0800	20	153	14:53	4870	10210			2730	9	53	832	3	97	5270	4	85				119380	63480	2040
10915	25	83	1457	7240	6130			2810	9	54	OFF			5160	4	83						1
1200	25	01	1451	7350	6240			2940	B	59				5240	4	84						1
1600	25	87	1463	7470	6190	6	61	2790	8	51				5070	4	82						1
1000	69	84	1457	7290	6070	لو	64	2530	ŏ	55				5150	4	81				120820	64920	1,510
1 12																						
609-	26	85	1468	7310	1290	1.	1.2	2710	6	<u>a</u>				64-5		0-1						
1900	15	27	1452	7140	10070	10	42	1920	0	500				5570	<u>년</u>	00						
1200	25	83	1451	7070	1,140	10	105	300	2	5				5410	4	01				121850	65950	24.10
1600	25	82	1453	7120	1.220	6	1.2	3270	ğ	58				2040 Kun	4	82						1
2000	25	84	1461	6930	6170	12	63	3190	B	57				1990n	и	81				170 40-	1.011.0	
Comme	ents: 07	127 -	Topole	e off	UPE-	110	0905	<u>,</u>	<u> </u>		<u> </u>			11101						110000	61430	15,0
													· · · ·									<b>.</b> .

Project Location: 1830 PARK STREET         City: ALMEDA         Site # GOOD CHEVROLET         Date: 92/21/201.2         Page 154 or 3]           City: ALMEDA         Site # GOOD CHEVROLET         Date: 92/21/201.2         Page 154 or 3]           City: ALMEDA         Site # GOOD CHEVROLET         Date: 92/21/201.2         Page 154 or 3]           City: ALMEDA         Site # GOOD CHEVROLET         VICE 1         VIEE 0         Clumit         Clumit         VICE 1         VIEE 0         Clumit         Clumit         Clumit         VIEE 0         Clumit         Clumit         VIEE 0         Clumit				HI	GH VA	CUUI	M		SVE	or	Χ	]DPE		FIEL	D DA	TA S	HEE	Г			CalCle	an Inc.		
EXTRACTION WELLS           Well ID.         UTE-10         UTE-11         VPE-9         Council.         Water Material From-To (ff)         Council.         Water Material From-To (ff)         Council.         Water Material From-To (ff)         Council.         UTE-11         VPE-9         Water Material From-To (ff)         Water Material From-To (ff)         Council.         Water Material From-To (ff)         Council.         Water Material From-To (ff)         Water Material From-To (ff)         Council.	Project Client:	Location	n: 1630 F Ad	PARK ST	REET			City: /	ALMED	A Operato	or (s): <u> </u>	IC14	Site #:	GOOD #7(	CHEVR مراجع	OLET		Date:	1 <sup>29</sup> 1 50	2017	Page 15,	t of <u>37</u>		
Weil I.D.         UPE-B         UPE-ID         VPE-II         VPE-9         Cumul.           Streen Interval: From-To (1)         9:5: 0         17:74         16:4: 5         16:4: 5         17:74         10:4: 4         17:74         10:4: 4         17:74         10:4: 4         17:74         10:4: 4         17:74         10:4: 4         17:74         10:4: 5         17:74         17:74         17:74         17:74											E	XTRAC	CTION	N WEL	LS	0								
Screen Interval: From-To (ft)         Water Meter Mater Meter Water Meter Readings           Initial Depth To Water DTW (ft) $9.5^{\circ}$ / 12.7.74         10.14         / 12.7.74         10.14         / 12.7.74         Water Meter Readings         Water Meter Readings           Time Ut Ar Tox Vaper Intel OffOn         OffOn         DTW Stinger OffOn <th cols<="" td=""><td></td><td><b>_</b></td><td>Well I.D</td><td></td><td></td><td>VRE-</td><td>8</td><td></td><td>VPE</td><td>-10</td><td></td><td>VPE</td><td>-11</td><td></td><td>VPE</td><td>9</td><td></td><td></td><td>1</td><td></td><td></td><td>Cumul</td><td>1</td></th>	<td></td> <td><b>_</b></td> <td>Well I.D</td> <td></td> <td></td> <td>VRE-</td> <td>8</td> <td></td> <td>VPE</td> <td>-10</td> <td></td> <td>VPE</td> <td>-11</td> <td></td> <td>VPE</td> <td>9</td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td>Cumul</td> <td>1</td>		<b>_</b>	Well I.D			VRE-	8		VPE	-10		VPE	-11		VPE	9			1			Cumul	1
Intract Depth 10 Weith Div Weith Provide Pr		Screen	Interval:	From-To (	<u>(ft)</u>	<b>a</b> Ø1.	1.7		0/0		(0)		1.0	- 2							Water Meter	Water		
Vacuum         Formation         Conc.         Depth	Time	Unit	Air	TOX	Vapor Inlet	Off/On	ÐTW	Stinger	いう( Off/On	DTW	Stinger	Off/On	DTW	Stinger	10.74 Off/On		13 Stinger	0##/01	DTW	Dimension	Readings	Extracted	-	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		Vacuum	Flowrate	Temp.	Conc.		1	Depth			Depth		;	Depth			Depth			Depth	units	gals		
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Comments: 02/29 - TOOK TOTM INLET WHOF GAMPLED 0815.	Comm	ents: 0	2/29	- 100	ok Torn	r Ivi	ET	ATOP	GAME	ILE	1800	5.								I		L	I	

City: ALMEDA Operator (a):       Date:: 3/3/2012       Page (4/4): 3.7         City: ALMEDA Operator (a):       Date:: 3/3/2012       Page (4/4): 3.7         City: ALMEDA Operator (a):       Date:: 3/3/2012       Page (4/4): 3.7         City: ALMEDA Operator (a):       City: ALMEDA Operator (a):       Date:: 3/3/2012       Page (4/4): 3.7         City: ALMEDA Operator (a):       EXTRACTION WELLS         Water Matter India Depth To Water DTW (a)       9.86/6 / 17:7:4       Gammed City: 0.7       Water Matter India Depth To Water DTW (b)       Operator (a): 0.7       Water Matter India Depth To Water DTW (b)       Operator (a): 0.7       Water Matter India Depth To Water DTW (b)       Operator (b): 0.7       Water Matter India Depth To Water DTW (b)       Operator (b): 0.7       Water Matter India Depth To Water DTW (b)       Operator (b): 0.7       Water Matter India Depth To Water DTW (b)       Operator (b): 0.7       Water Matter India Depth To Water DTW (b): 0.7       Operator (b): 0.7       Water Matter India Depth To Water DTW (b): 0.7       Operator (b): 0.7       Water Matter India Depth To Water DTW (b): 0.7       Operator				HI	GH VA		M		]SVE	or	X	]DPE	•	FIEL	D DA	TA S	HEE	Г			CalCle	an Inc.	
EXTRACTION WELLS           Screen interact Prom-To (t)         V?E-9         V?E-10         V?E-9         V.E-9         V.E-9         V.E	Project Client:	Location: BUESTA	. 1630 F D	PARK ST	REET			City: A	ALMED.	A Operato	or (s):	TUR	Site #:	GOOD -70	CHEVR	OLET		Date: _	<u>313 1</u>	201 <u>Z</u>	Page <u>//6</u> ,	tor 37	
Well LD.         VPE-8         VPE-10         VPE-9         VPE-9         VPE-10         VPE-9         VPE-10         VPE-10 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>·</td> <td></td> <td></td> <td>E</td> <td>XTRA</td> <td>спо</td> <td>N WEL</td> <td>LS</td> <td>•<u>•</u>••••</td> <td></td> <td>1.1.1</td> <td></td> <td></td> <td>1</td> <td></td> <td></td>								·			E	XTRA	спо	N WEL	LS	• <u>•</u> ••••		1.1.1			1		
Borden Interval: From: To (TU)         P.66 / 17,71         P.57 / 16.59         10/24 / 17.75         Water Meetry Readings         Readings <th< td=""><td></td><td>r</td><td>Well I.D.</td><td></td><td></td><td>VPE</td><td>-8</td><td></td><td>VRE</td><td>-10</td><td></td><td>VPE-</td><td>9</td><td>1</td><td></td><td></td><td></td><td></td><td>/</td><td></td><td></td><td>Cumul</td><td>1</td></th<>		r	Well I.D.			VPE	-8		VRE	-10		VPE-	9	1					/			Cumul	1
The definition of the set of th		Screen	Interval:	From-To (	(ft)	00		7.01			50								······································		Water Meter	Water	
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Project I Client: I	Location: BUESTA	: 1630 F	PARK ST	REET			City: /	ALMED,	<b>A</b> Operato	r (s):	TCK	Site #:	GOOD	CHEVR 7 —	OLET		Date: <u>(</u>	031041	201 <u>Z</u>	Page 174	t <sub>of 37</sub>	
										E	XTRA	CTION	WEL	LS	,				·			
	r	Well I.D.			VPE-	8		VPE	:-10		VPE	-9						-	·		Cumul.	1
	Screen Initial D	Interval:   epth To V	From-To ( Vater DTV	ft) V (ft)	9,80	2/17	74	9.5	/14	.59	10.24	+ /1	7.73							Water Meter Readings	Water	
Time	Unit Vacuum	Air Flowrate	TOX Temp.	Vapor Inlet Conc.	Off/On	ĐTW	Stinger Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	units	gate	1
3/le	<u>( п</u> у.)		(degr)	(ppmv)		(π)			(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	55900	· · ·	1
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6.00	62	07	1471	400	4570	u	44	0110	8	54	3220	ч	68						·	144130	88230	3140
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Comme	nts: ð	3707	- 70	OLL TOT			- 14	Un0 4	34.4.4	2150	2,00	1E	1,10 4	150	<u>.</u>	196-0	177-	<u> </u>				
				101			VA	TIN	- AT IM		201	10,	(Up-k	0 101	<u> </u>	146-0	, vre	10 4	VYE-	T @ 082	0.	

 $\mathbb{D}$ 

			HI	GH VA	CUUI	M		SVE	or	X	]DPE		FIEL	D DA	TAS	HEE	Г			CalCle	an Inc.	
Project I		: 1630 F	PARK ST	REET			City: A	ALMED	<b>A</b>		I.V.	Site #:	GOOD	CHEVR	OLET		Date:	13 <u> 01</u>	201_7	Page <u>18/</u>	Lof <u>3</u> 7	
	JUE 31A						_		Operato	)r(s): <u> </u> F	YTPA			15	62					1		
		Well I.D.			DPE	-7		NRE	-5		JVE	-10	VYEL	L3								7
/	Screen	Intervai:	From-To (	ft)				<u>, , , , , , , , , , , , , , , , , , , </u>	<u> </u>		110										Cumul.	
77:	Initial D	epth To V	Vater DTV	V (ft)	11.15	/14	40	9.91	e/17	1.69	10.04	7/17	63							Water Meter Readings	Extracted	
Time	Vacuum	Air Flowrate	TOX Temp.	Vapor Inlet Conc.	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	units	gals	1
107	(19.)		(uegr)	(ppniv)		(11)		(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)		· · ·	
0845	24	41	1451	·			13	HISO			urr_											-
0915	24	43	1457					3990														-
	<del>_</del>	,		· · · · · · · · · · · · · · · · · · ·	ON			OFF										· _ · -				-
0920	18	64	1455		2410																<u> </u>	-
A45	13	122	1451		2390					-											┟────	-
					OFF						ON		17							<u>-</u>		-
0950	26	32	1453								1473				<u> </u>							1
1015	Ue	35	1451								1302											1
					02		13	NO		17												1
1020	20	131	1452	1370		8	62		10	43		3	91									1 1
1045	19	143	1452	842	2470	8	53	3810	10	47	1093	3	93							.1		1
1100	19	147	1451	809	1938	8	51	3240	10	44	927	3	92									1
1200	19	145	1450	75 Ce	781	<u>_8</u> _	54	1671	10	45	1251	3	95							200		
1000	19	147	1456	742	154	0			10	<b>_</b>	689	3										1
m	1-1	140	1951	718	717	8			10		1074	3						_		147300	91400	3,10
02/08									<u>.</u>				:					- 3				1
0001	18	157	1453	759	783	10			10		721	3										
0800	18	154	1457	773	871	12					771	3										1
1030	18	154	1451	797	854	6	63	1493	10	41	768	3	97							148410	42610	3041
Comme	nts: ഗ്	5/07.	- Tool	L VARO	R GA	MPL	<u> </u>	4 <u>65</u> F	Four		VPE	.50	0915	5. DPI	7.7.0	Q 19	45	195-1	e P .11	215 4-		1
THLE	re	1045					1						1					151	1	riv ril	TAL	-
									-													

			HI	GH VA	CUU	M	L	SVE	or	X	DPE		FIEL	D DA	TAS	HEE.	Г			CalCle	an Inc.	
Project   Client:	Location BUESTA	: 1630 F \D	PARK ST	REET			City: A	ALMED.	A Operato	or (s):	TCK	Site #:	600D 7.67	CHEVR	OLET		Date:	3,8,	201 <u>L</u>	Page 1911	4 <u>37</u>	
										E	XTRA	CTIO	N WEL	LS	ψC		<u> </u>			1		
	r	Well I.D			DPE-	2		VPE	.5		VPE	ال	1	VPE	-8		VPE	-10			Cumul	1
<u> </u>	Screen	Interval: epth To V	From-To ( Vater DT\	(ft) // (ft)	11.15	714.	40	9.91	0/1	1.69	10.0	9/17	1.43	9.8c	117.	74	9.5	111	2:59	Water Meter Readings	Water	
Ume	Unit Vacuum ("Hq.)	Air Flowrate (cfm)	TOX Temp. (denE)	Vapor Inlet Conc.	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	units	gals	1
03/08	<u>(</u> , , , , , , , , , , , , , , , , , , ,		(		ON	(14)	13	ON	(11)	17		(π)	/ 7	(ppmv)	(#)	(feet)	(ppmv)	(ft)	(feet)		· · · ·	{
1200	18	,15%	1453	758						<u> </u>												
1600	18	. 163	1461	187	831	le	104	1478	10	43	774	3	95									}
2000	19	- 74	1451	923	817	6	68	1381	9	49	off									150320	94420	3020
03/09										┝───												1
0001	19	77	1451	877	796	le	69	1316	9	51			· ·								<u> </u>	ł
0800	19	73	1453	764	714	le	67	1174	9	53										151480	95680	3.10
1145					687	le	65												<u>├</u> ──		17780	70.
			·		OFF									52		17	ON		15.5	·		1
1200	24	94	1451	2950				1231	10	48				2730	14	35	3130	17	24			
1400	24	72	1453	2840				1328	10	46			1	2750	14	37	3070	17	21	-4		
1000	29	91	145-1	2710		·		1374	10	45				2790	14	31	3010	רי	23	153480	97580	3140
3/10						-																
0001	24	91	1455	2860				1453	10	47				1740	14	11	7060					
0800	24	94	1454	2990				1491	10	49				1700	14	24	7070		12	(1)	000-0	
1200	24	91	1462	2830				1528	10	48		•		7930	14	27	2110	17	66	154720	18820	3140
1600	21	93	1455	2980				1674	10	49		:		7010	111	20	2.90	17	72			
2000	24	95	1454	3040				1642		412				7880	iu	20	32100	11	15	154770	1000-1-	2767
														-00-	-					1702110	100618	3610
Comme	nts: 07	08-	TUPA	ed off	= VPE	5-12-6	217	00, 1	TORAL	ed 0	n na	RE-	8 %	VPE-1	00	115	0.1.	JRNE	DOF	PPE-72	21145	

1.5

			HI	GH VA	M		SVE	or	X	DPE]		FIEL	D DA	TA S	HEET	Γ			CalCle	an Inc.		
Project   Client:	Location: BUESTA	: 1630 F \D	PARK ST	REET			City: A	LMED	<b>A</b> Operato	or (s): <u>N</u>	TCK	Site #:	GOOD 167-	CHEVR	OLET		Date:	<u>3,1(</u> ,	201 <u>7</u>	Page 10A	of <u>37</u>	
										E	XTRA	СТЮ	N WEL	LS	•					1		
		Well I.D.			DRE-1	5		DRE-	8		DRE-	10									Cumul	
	Screen	Interval: I	From-To (	<u>ft)</u>	<i>a.</i> o.,	1	G	0.01	115	-7.1.	07	-1.								Water Meter	Water	
Time	Unitial D	Air	TOX	V (ft) Vapor Inlet	Off/On	/II.U DTW	Stinger	7.50 Off/On	DTW	Stinger	7.5 Off/On		257 Stinger	OfflOp		Stinger	0500	DTIA	Lor.	Readings	Extracted	
	Vacuum	Flowrate	Temp.	Conc.			Depth	-		Depth	Childh		Depth		DIAA	Depth	Un/Un	DIW	Depth	units	gats	
	("Hg.)	(ctm)	(degF)	(ppmv)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	55900		
21	7.4	91.	1452	3110	11.21	10	47	704	1/1	22	0N/	17	155									
1000	74	90	1463	3370	11074	10	41	7710	14	32	200	19	11						<u> </u>	. / 0		1460
1200	24	-95	1454	3420	1648	10	чи	2930	14 IU	34	3140	17	7.7							198010	DIIJO	700
1600	24	91	1451	3560	1693	10	43	2810	14	35	3220	11	7.5					<u> </u>				
2000	24	93	1458	3430	1721	D	41	2840	14	33	3270	17	ZY			· · · · · ·				1100710	104510	2440
																				10 010	1013.0	
3/10																						
0001	24	92	1453	3390	1717	10	44	2910	14	35	3390	17	21									
0000	24	47	1452	3540	1837	10	46e	2980	14	37	3340	17	23							141580	104680	3570
1200	24	45	1454	3760	1854	10	43	3120	14	36	3490	17	22									
700	24	91	1471	3520	1771	7	51	3190	12	41	3240	11	24							-+		_
- Charles	64	12	1492	2410	1162	D	51	3010	15	37	3160	16	27							163730	107830	3620
2/13						_												_				
0001	24	95	1457	3370	11078	1	1.7	3610	12.	4	3040	110	210				——					
0800	24	92	1452	3140	1574	7	103	7980	10	49	3190	16	29							1/11/17	La Citation	- 80
1600	24	93	1451	3090	1411	.7	64	3070	10	48	3220	16	18							165360	107460	3780
2000	24	97	1467	3010	1321	7	122	3140	10	49	3170	15	79							11.75-10	11.70	20110
												Ť								10-13-10	mero	5040
																					<u> </u>	
Comme	nts:				к																L	l

HIGI	H VA	CUI	JM

SVE or X DPE

FIELD DATA SHEET

## CalClean Inc.

Project Location:	1630	PARK	STREET
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City: ALMEDA

Project I	Location	: <b>1630</b>	PARK SI	REET			City: /	ALMED.	A	. 1		Site #:	GOOD	CHEVR	OLET		Date:	3,14,	201 Z	Page 71	kof 37	
Client: I	BUESTA	AD							Operato	or (s): 1	nac	-1	167-				-					
										E	XTRA	CTIO	N WEL	LS						1		
	·	Well I.C	).		DPE-	2		DPE	8		DPE.	10	:	DPE	-9			-				1
	Screen	Interval:	From-To (	(ft)											B					Water Motor	Water	
Time	Initial D	Alr	Water DT	V (ft)	9,96	2 17	Stinger	9,80	<u>e /17</u>	7.74	9.51	110	.59							Readings	Extracted	
7	Vacuum ("Hg.)	Flowrate (cfm)	• Temp. (degF)	Conc.	(ppmv)	(ft)	Depth (feet)		(ft)	Depth (feet)	(ppmy)		Stinger Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	units	gals	
3/14					<u> </u>				(14)	(	(ppint)	. (11/	neer)	(vniqq)	(11)	(reet)	(ppmv)	(ft)	(feet)	57/00		
0001	24	.97	1451	2780	1187	7	42	2910	10	44	3110	15	28									
0800	24	.93	1451	2990	1213	7	61	2870	10	49	3080	15	28	ON		<u> </u>				MAIGH	113760	279D
1300	22	1219	1451	4320	1173	6	ゴマ	2810	10	43	3140	14	32	4780	4	87				101170	110690	5110
1600	27	148	1457	4270	1121	le	79	2770	8	61	3290	14	33	4930	4	81						
2000	22	144	1456	4210	1093	le	75	2870	8	64	3340	13	39	5140	4	84				171510	115610	3940
		<b> </b>		[																	702.0	1000
3/17	20		11100																			
10001	22	147	1453	4110	1051	le	7:6	7 <b>8</b> 60	0	63	3260	13	34	5010	4	82						
0200	74	143	1467	4160	1071	le	78	2940	00	63	3170	13	31	5240	4	83				173110	117210	3960
1000	16	147	146	4140	1053	0	73	3020	8	102	3190	13	33	5170	4	85						· .
7000	12		1456	4010	1041	6	74	3010	0	61	3140	13	35	5290	4	83				-1		
1.00	66	148	1951	7120	רוסו	le	71	3140	33	43	300	13	34	5340	4	82				175880	119980	4370
3/16	- <u></u>																					
0001	72	142	1453	4190	9999	10	21	2170	0	111	211.0	1 -7	21									
0800	22	144	1451	4010	9710	$\frac{q}{l}$	73	3210	8	64	2190	17	22	5290	4	84						
1200	22	143	1452	4090	984	10	71	311-0	8	1.6	7110	13	211	520	4	8				177650	12750	4540
1600	22	144	1451	4040	911	6	77.	3140	8	103	2110	15	27	5010	4	02						
2000	22	141	1451	4160	1017	le	74	31RD	8	1.4	2190	3	36	(20)		00						
									<u> </u>		01.10		- 27	5510	_~(	07				180620	124720	4140
Comme	nts: 3	114.	- Too	4 TOTA	1 Is	LET	VAP	of a	Andre	E	213	25	1/10-	) GA	100 01 7				2 . 7			
									<u>v- 1-0</u>	<u> </u>	- 10		VATO		mer	04	VYE	<u></u>	-100	<u>.                                    </u>		

			HI	GH VA	CUU	M		]SVE	or	X	]DPE		FIEL	D DA	TA S	HEE.	Г			CalCle	an Inc.	
Project	Location BUESTA	: 1630 F \D	PARK ST	REET			City: /	ALMED.	A Operate	or (s): <u></u>	ISUK	Site #:	GOOD 767-	CHEVR	OLET		Date:	<u>3/17</u> /	201 <u>Z</u>	Page ZZ	for 37	
										E	XTRA	CTIO	N WEI	LS								
		Weil I.D			DPE-	5		DPE	-8		DPE	-10	1	DPE	9			1			Cumul	1
	Screen	Interval:	From-To (	(ft)	I															Water Meter	Water	
Time	Unit	Air	TOX	V (ft) Vapor inlet	Off/On	ĐTW	Stinger	Off/On	DTW	Stinger	Off/On	DTW	Ctinger	050-	Dimer	-				Readings	Extracted	
	Vacuum ("Hg.)	Flowrate (cfm)	Temp. (degF)	Conc. (ppmv)	(ppmv)	(ft)	Depth (feet)	(ppmv)	(ft)	Depth (feet)	(ppmv)	(ft)	Depth (feet)	(ppmv)	(ft)	Depth (feet)	Off/On	DTW (ft)	Stinger Depth (feet)	units 65900	gate	
3/17																	W1		(1001)	10100		1
0001	22	,143	1451	4110	998	6	72	3160	8	64	3260	13	31	5410	4	83					· · · ·	
6900	22		1454	4070	983	le	71	3210	8	63	3420	13	33	5570	4	85				182360	1264100	4210
1200	22		1457	3980	974	le	74	3190	Ô	65	3310	13	34	5430	4	81						
1600	12	146	1459	3410	968	le	72	3140	0	121	3370	13	31	5310	ч	82						1
luce	12	141	11454	3970	451	<u>u</u>	75	5180	8	62	3290	13	35	5520	ч	84				185460	129550	483C
3/18		[								<del> </del>												-
0001	22	143	1453	3920	947	le	71	3210	8	61	3240	13	31	5490	н	Blo						
0800	22	147	1451	4140	932	le	רד	3150	8	101	3190	13	34	5.20	Ü	84				187170	131720	1.770
1200	22	146	1454	4090	92le	6	71	3140	8	65	3110	13	33	5690	4	83		·		101120	11000	n'
1600	22	144	1454	4010	914	le	74	3010	8	64	3070	13	31	5810	4	85				. 4		
2000	22	148	1452	4180	907	le	75	3090	0	63	3010	13	33	5790	4	82				190240	134340	4790
3/19																				<u></u>		
	22	149	1451	HDID	<b>Q</b> 93	10	73	3050	B	103	3040	12	37	( ii a		01						
0800	22	145	1453	3960	881	10	72	3190	8	101	7910	13	34	5690	4	<u>81</u>				10.01		
1200	22	147	1455	3840	874	<u> </u>	71	3140	B	1.5	Z840	13	34	6370	4	01				191950	136050	482
1600	22	143	1454	3710	867	6	74	3050	8	1.2	2730	13	31	6270	Ц	26						1
2000	22	144	1457	3660	853	6	71	2970	8	64	2610	13	36	5160	4	23				ICKAL	129110	1.170
								a.				<u> </u>				00				0100	171110	MU
Comme	nts:				•									<u>I</u>								l I

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			HI	GH VA	CUU	М		<b>SVE</b>	or	X	]DPE		FIEL	.D DA	TAS	HEET	Г			CalCle	an Inc.	
Project I Client:	Location: BUESTA	: 1630 F \D	PARK ST	REET		R	City: A	LMED	<b>A</b> Operato	or (s): <u>N</u>	Her	Site #:	GOOD -7(	CHEVR ヮヿー	OLET		Date:	3 ,29	201 <u>Z</u>	Page 23/	For <u>37</u>	
		r								E	XTRA	CTION	N WEL	LS						1		
	r	Well I.D.			DPE	-5		PPE	-8		DPE	€-10	)	DRE	-9			-			Gumul	1
Time	Screen	Interval:   epth To V	From-To ( Vater DTV	ft) V (ft)	0.5%				······································											Water Meter Readings	Water	
	Vacuum ("Hg.)	Flowrate (cfm)	Temp. (degF)	Conc. (ppmv)	(ppmv)	(ft)	Depth (feet)	(ppmv)	(ft)	Stinger Depth (feet)	Off/On (ppmv)	DTW (ft)	Stinger Depth Ifeet)	Off/On (ppmv)	DTW (ft)	Stinger Depth (feet)	Off/On (ppmv):	DTW (ft)	Stinger Depth (feet)	units 569 <i>0</i> 00	gale	
3/20		1.0			ON			ON			ON			ON								
0001	22	147	1451	3610	841	6	72	2830	8	63	2530	13	33	6070	4	86					1.	
1200	17		1451	2510	825	le	74	2710	8	62	2410	13	31	4940	4	84				196760	140860	4810
1100	17	147	1454	3610	<u>001</u> 741	<u> </u>	22	2170	<u> </u>	104	1570	12	35	5140	4	81						
1000	22	146	1451	3390	783	6	75	2410	<u>0</u>	103	2240	13	27	47(60		05				1000		
					107	<u> </u>		0110	0_		0000	12	102	9110	-	62				197860	14'2960	4850
3/21																						
0001	IL	143	1457	3310	777	6	74	2590	8	62	2290	13	35	4610	4	R4						
0820	22	141	1453	3180	751	6	71	2530	8	61	2160	13	33	4470	4	82				201540	145120	4180
1200	22	143	1451	3090	718	6	73	2476	8	64	2270	13	31	4260	4	85						
1600	22	148	1454	3150	731	<u>le</u>	71	2490	8	63	2210	13	32	4340	4	83						
					DFF				<del></del>	<u> </u>			1									
																				1999 - A. A. A. A. A. A. A. A. A. A. A. A. A.		
								,					<u> </u>									
												- ·										
												:										
Comme	nts: 3	121-	Took	VAPO	16.	41491	Eb	AS	For	Low	5-1	OTAL	INI		20	805	VPE	5-50	 2/02	IS DDE	00	I
082	<u>5, 7</u>	PE-9	e	0835	DP	E-10	e	<b>284</b> 5	5. 10	PHEN	7 OFF	DT	E-5	C 193	D.		)			1 2, 210	00	
									<b>H</b> :									_				

Project L	ocation:	1630 P	ARK ST	REET			City: A		A		-	Site #	GÖOD	CHEVR			Detor	371	201 7	24	1.27	
lient: E	BUESTA	D							Operato	or (s): N	ITCK		710	-			Dale:		201 <u>F</u>	Page <u>- 7</u>	_ot <u></u>	
										E	XTRA	CTION	I WEL	LS	83	····						
		Well I.D.			DPE-	4		DPE	-8		DPE	-9	(	DPE	-10		DP	É-11			Current	1
;	Screen	Interval: I	From-To (	ft)					··											Water Motor	Water	L
Time	Initial De	epth To V	Vater DTV	V (ft)	10.11	116.	<u>87</u>	9.80	e /17	1.74	10.24	1/17	13	9.5	7/16	59	10,4	3/17	9 ۲	Readings	Extracted	
T IIIIG	Vacuum	Flowrate	Temp.	Conc.			Depth	Un/Un		Depth	Off/On		Stinger Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	units	aals	1
7	("Hg.)	(cfm)	(degF)	(ppmv)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	_(ft)	(feet)		guio	
2					ON		16	DN		17	ON		5	ON		15.5	ON		17			1
000	18	5 78	1451	4716	1821	4	85	2440	8	67	4230	5	76	2250	10	53	3520	6	71	254670	148770	14
lag			<u> </u>			_									<b></b>							
766	10	1.711	16.	111 6 -	1007		0.6	<u></u>														
001	10	172	1451	4660	1775	4	81	2410	0	63	4010	5	75	2290	10	55	3440	le	75			
200	0		1476	4510	146	4	67	2370	0	64	4210	5	78	2340	10	54	3410	6	73	207330	151430	8
.00	18	177	1404	4270	1610	<u>۲</u>	80	2340	0	121	4070	5	77	2410	10	51	3370	6	71			
mo	10	116	1931	960	174	4	00	2120	0	60	3720	~	-19	2360	10	53	3310	Q	74			
1. AC 400	10	כיו	1401	4140	11 13	<u> </u>	01	2100	8	65	2780	>	16	1420		65	3360	le	22	210880	164980	16
3/23																						
601	195	171	1458	39100	973	4	29	2120	8	64	3840	6	70	7370		Ch.	2110		-15			-
800	18	174	1451	3720	576	H	88	2240	8	101	4030	5	76	2690		67	2770	<u>(e</u>		2.20-	10000	┨.
200	21	153	1454	3980	DEE				10	63	10 30	17	25	0010	17	27	2410	7	1.0	6 70 10	151970	$\mathbf{I}^{\mathbf{u}}$
00	22	THE	1451	4030				2170	10	51	3910	17	1.8	29HD	17	79	2040	5	100		<u> </u>	ł
100	22	141	1453	4560								<u> </u>		0110		2	50-10	_ / _	00			$\mathbf{I}$
0.00	22	143	1452	4410				2080	10	52	3740	17	24	28100	17	77	798D		1.3			-
2000	22	146	1451	4590				2140	10	51	3790	17	24	2810	17	27	2020	7	1041	217860	11-191-0	1,
												:	T				5500	(	7-20		01760	ł¢
																					<u> </u>	$\mathbf{I}$
																						ł
omme	nts: 3	/21 -	TOPH	ED ON	WE	us	DYE	-4 4	TP	2-11 (	919	155	1021	150 0	FC 7	774-6		<u></u>	L			1

			HI	GH VA	CUU	M		]SVE	or	X	DPE		FIEL	D DA	TA S	HEE.	r			CalCle	an Inc.	
Project l	_ocation:	1630 P	PARK ST	REET			City: /	ALMED.	A		4	Site #:	GOOD	CHEVR	OLET		Date:	3,24,	201 <u>Z</u>	Page 25	or <u>37</u>	
Client: I	BUESTA	Ð							Operato	r (s): <u>N</u>	JUK	-								_		
										E	XTRA	CTIO	N WEL	LS	24							
		Well I.D.			ļ		_	DPE	-8		DPE	-9		DPE	5-1D		DPE	5-)1			Cumul.	
	Screen	Interval: I	From-To (	(ft)			_ <u></u>		·			- /								Water Meter	Water	
Time	Initial D	epth To V Air	Vater DTV	V (ft) Vapor inlet	Off/On	<b>BTW</b>	Stinger	9,8	0/17,	74 Stinger	10.24	1/17.	<u>73</u>	9,5	7/16	2.59	10.47	3/17	1.79	Readings	Extracted	1
	Vacuum	Flowrate	Temp.	Conc.			Depth		10111	Depth		:	Depth	Un/Un	DIW	Depth	Off/On		Depth	units	gale	
alart	("Hg.)	(cfm)	(degF)	(ppmv)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	55900	<u> </u>	
3/29		11.5	131.00	·			<b> </b>	ON		<b>ר</b> ו	ON		12	ON		15,5	on		71			
10001	22	(4)	1451	4680			<u> </u>	2360	10	55	3910	17	29	2930	In	23	3270	1	63		1. A.	
0800	66	- 145	1453	4930			<u> </u>	2440	10	54	4110	17	26	3170	רו	21	3362	7	65	219580	163680	5710
1200	26	742	1450	4710		<u> </u>		2290	10	53	4040	17	28	3110	17	24	3290	17	lel			
	22 148 1454 4890							23%	10	55	4140	17	25	3160	17	22	3340	7	64			
Lac.	66	141	1451	1550				2110	10	53	3750		27	2890	רו	25	3110	7	62	222790	160890	4930
2/76										<u> </u>									<u> </u>	<b> </b>		1
703	77	1119	1151	42100				1920	10	<u> </u>	26								 			1
0001	11		1456	4400	-			11-00		51	2020	11	25	2530	17	21	2810		65			
12/00	77	1111	1454	4160				1910		24	200	17	25	2110	17	100	5010		65	224550	168650	4770
11 and	22	145	1453	4310				2010		00	21.10	1	14	2470		20	2740		[le]		ļ	
2000	22	14.3	1450	4460				2060		61	34.60	11	27	21.90	17	20	2730	-	107	000000		
						:		2000	0	-26-	10000	1 (		20210	. ! !	61	5010		las	11900	172000	610
3/26																					<u> </u>	
0001	22	149	1451	41040				2010	10	51	3810	17	710	2870	17	210	3090	-7	1011			
0800	22	147	1459	4780				2140	10	54	3970	17	7.3	3040	17	28	3120	-	(0)	226270	1721170	1.070
1200	22	145	1453	4520				2060	10	52	3760	17	25	2730	17	210	2370	7	1.2	01510	112470	4000
1600	22	148	1458	4710				2170	10	54	3910	17	21	7930	17	27	3790	7	1.1.			
2000	22	146	1455	4470		2090	10	51	3740	17	24	2410	17	25	3140	7	102	727670	171 070	1.970		
										·			and the second s		<u>. </u>	<u> </u>			Certa.	171010	1 16710	9710
Commo	nto"				•				-									<u>_</u>			L]	1

			HI	GH VA	M		SVE	or	X	DPE]		FIEL	D DA	TA S	HEE	Г			CalClea	an Inc.		
Project & Client: E	ocation:	1630 F	PARK ST	REET			City: A	LMED	<b>A</b> Operato	r (s): N	ECK	Site #:	GOOD 他フー	CHEVR	OLET		Date: _	<u>3,21</u> ,	201 <u>2</u>	Page <u>704</u>	of <u>37</u>	
										E	XTRA	CTIO	N WEL	LS						1		
		Well I.D.						DPE	-8	_	DPE	-9	4	DPE	-10		DPE	41			Cumul	
	Screen	Interval:	From-To (	ft)																Water Meter	Water	
Time	Initial D	epth To V Air	Vater DTV	V (ft) Vanor Inlet	Off/On	PITW	Stinger	9.86	/17.7	24 Stinger	10.24		1,73	9,57	/16	59	10,4.	3/17	1.79	Readings	Extracted	
	Vacuum	Flowrate	Temp.	Conc.			Depth		DIW	Depth	UII/Un		Depth	Uff/Un	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	units	gals	
100	("Hg.)	(cfm)	(degF)	(ppmv)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	55900		
5/21		i.c	11.50					ON		17	ON		17	ON		15,5	ON		17			
0001	11	143	1452	4260				2070	10	53	3640	17	25	3010	17	23	3150	7	63			
0800	LL.	144	1458	4510				2290	10	51	3860	17	27	3210	17	21	3040	7	64	234510	178610	5140
1200	22	-148	1453	4180				2340	10	54	3720	17	28	3290	[7]	24	3010	7	Lel			
160	12	147	1457	4040	<u> </u>			2270	10	52	3640	17	Zle	3210	17	22	2960	1	125			
2000	22	146	1454	0920				2160	10	55	3510	17	29	3170	<u>רי</u>	21	2920	7	103	237840	181940	4920
3/28																						
0001	22	147	1451	37/20				2210	10	54	3460	1-7	74	3120	. ~	73	7040		1.1.			
0800	22	145	1451	3510				2130	10	63	3770	19	77	3070	<u> </u>	25	2210		64	07017-	10 2/170	61.0
1200	22	143	1451	3470				2070	10	57	3210	17	210	3090	17	71	7-10-	<u></u>	1.2	257610	10710	21000
1600	22	144	1463	3320				2040	th	54	3170		29	8010	17	24	2720	<u></u>	1.1			
2000	22	141	1452	3270				2010	10	51	3110	17	27	2970	17	22	21.90	7	105	243030	187130	6,90
										<u> </u>					<u> </u>					- 10070	1011.00	,,
3/29													1									
1000	22	148	1454	3160				1979	10	53	3080	17	28	2940	רו	27	2740	7	1.4			
0800	22	147	1451	2910				1941	10	51	29/00	17	29	2810	17	23	2610	7	103	144700	189880	6110
1200	22	142	1452	2750		•		1915	10	52	2870	17	25	2730	17	ZI	2530	7	107	0171.00	10000	11.0
1600	22	14le	1451	2610				1903	10	54	2840	71	24	2650	17	25	2550	7	1021			
2000	22	141	1453	2540				1891	10	55	2780	17	26	2540	17	28	2510	7	lall	249160	1977/00	6130
								a							····			F		0.u.	TEAU	110
Comme	nts: 7	128	- Took	- TOTA	د تما	LET	VAPO	RG	Ampi	i e	120	5.					<u>_</u>					l
																			_			

X

SVE or X DPE FIELD DATA SHEET

## CalClean Inc.

Project I Client: I	.ocation: BUESTA	: 1630 F	PARK ST	REET			City: A		<b>A</b> Operato	or (s): <u>N</u>	JCK	Site #:	600D 167-	CHEVR	OLET		Date: _	<u>3, 70</u> ,	201 Z	Page <u>274</u>	of <u>37</u>	
										E	XTRA	CTION	WEL	LS	•							
		Well I.D	•					TVE	-8		VPE	-9		DPE	-10		DPE	-ît			Cumul	1
	Screen	Interval:	From-To (	ft)				A												Water Meter	Water	
	Initial D	epth To V	Vater DTV	V (ft)	0.00			9.80	0/17	174	10.24	1/17	73	9.5	1/16	.59	10.4	3/17.	79	Readings	Extracted	
ime	Vacuum	Air Flowrate	Temp,	Conc.	Un/Un	ETTW :	Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	units	gals	
	("Hg.)	(cfm)	(degF)	(ppmv)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	55900	guio	
3/30		ļ						ON		רו	ON		17	ON		15.5	ON		17			
1000	22	146	1451	2490				1873	10	54	2690	17	23	2470	17	27	2430	7	63		· ·	
0800	22	148	1453	2340				1861	10	51	2640	17	21	2310	17	29	2270	7	125	249920	194020	5140
1200	22	141	1454	2160				1817	10	53	2670	רו	24	2290	17	28	2150	7	اھا			
11200	22	143	1457	2040				1794	10	51	2410	17	23	2230	17	25	2110	7	103			
2005	22	142	1451	2120				1764	10	54	2520	17	21	2270	17	27	2070	.7	64	253370	197470	5210
3/31																						
0001	22	141	1458	2010					10	66	7470	17	74	7710	17	710	7.90	2	1.6			
0200	22	144	653	1987				11097	10	53	2310	11	27	7170	17	73	1997	7	107	21/000	196100	610
1200	22	142	651	1953				110.44	10	52	7.260	11	28	7080	17	71	1911	7	1.7	07070		21
1606	7.2	143	653	1871				1601	10	54	2180	11	210	2020	17	24	1917	1	67	•		
2000	22	145	657	1937		,		1581	ID	51	2130	17	29	1986	17	22	1891	7	64	268560	202660	5190
4/01																						
0001	22	143	651	1889				1531	10	54	2110	1-1	77	1962	17	21	Que	-1	10			
1900	22	147	(a54	110910				1478	10	63	2040	17	76	1001	17	24	1010	1	0.6	0		1.10
1200	22	1410	1052	1(021				1427	10	51	1973	17.	10	1011	17	10	142	1	64	260320	204420	5270
1000	22	144	1053	6710				794	$\frac{10}{10}$	61	1249	17	19	1702	11	11	1798	1	61			
2000	22	141	161	1639				1371	10	61	1071	17	210	1172	11	15	1141	1	63	et		Lain
	- 10-							I PIN		21	1071		and c	1140		60	1618	_/	62	263830	207930	5210
Comme	nts: 3	/31 -	SwI	TLHED	OVER	: 50	CAT	r Mo	de C	207	45.									· · ·		

VE or	Х	DPE
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FIELD DATA SHEET

CalClean Inc.

Project Location: 1630 PARK STREET

K

City: ALMEDA

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AHAN Site #: GOOD CHEVROLET

Page 284 37

Date: 4 /02/ 201 Z

Client: E	BUESTA	D							Operato	r (s): <u>/</u> /	<u>ur</u>	-7	67-	<b>*</b>								
										E	KTRA	CTION	I WEL	LS	•							
		Well I.D						DRE-	8		DYG	-9	4	DRE	10		TYPE	-11	·		Cumul	1
	Screen	Interval:	From-To (	ft)				۹,												Watan Matan	Water	1
	Initial D	epth To V	Vater DTV	V (ft)				9.86	17.	74	10.24	1/17,	73	9.57	116.	59	10,43	3/17	79	Readings	Extracted	1
Time	Unit Vacuum	Air Flowrate	TOX Temp.	Vapor inlat Conc.	Off/On	ĐTW	Stinger Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	units	gals	
4/07	("Hg.)		(deg⊢)	(ppmv)	(ppmv)	(π)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	<u>(ft)</u>	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	55900		
706	22	147	1.66	1497				126	10		0N (0)0	l en	11	ON		19.5	ON	5	17			
ân	77	141	1062	137.9				1271	10	51	1010	17	62	1073	17	19	1686	5	65	0.1		CARIN
17.00	11	TLU	1.53	17910				1194	10	66	1717	17	211	1017	17	20	1571	7	62	145610	201710	70.0
11000	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$																					
200	00     22     147     651     1271     1151     10     63     1681     17     23     1671     17     25     1559     7     64       00     22     141     653     1258     1114     10     52     1652     17     21     1664     17     26     1531     7     63     213200     5210																					
2000	000 22 147 661 1271 1151 10 63 1681 17 23 1671 17 25 1569 7 64 000 22 141 653 1258 1114 10 52 1652 17 21 1664 17 26 1531 7 63 269100 213200 5270																					
4/03																						
0001	22	146	654	1219				1091	10	54	1631	n	25	11079	17	79	1601	7	107.			
0800	22	143	653	1158				952	10	51	1567	17	24	1598	17	28	154Z	7	101	770850	214960	67.40
1200	22	145	1257	1123				941	10	55	1594	17	24	1571	17	25	1497	7	104	710070	611120	
1600	22	141	651	1107				918	10	62	1567	17	29	1564	17	23	1401	7	63	•		
2000	22	143	653	1149				969	10	55	15913	רו	27	1531	17	21	133Le	7	101	274410	7.18510	5310
,																			. Cart	Di i i i i i	1.0710	
4/04																						
$\infty$ I	22	147	651	1191				1043	10	51	1578	17	25	1515	17	24	1278	7	105			
0800	22	145	664	1271				109Ce	10	53	1511	11	23	1423	17	27	1131	7	63	7710110	220210	5260
1200	22	143	652	1258				1129	10	52	1491	17	27	1418	17	23	1071	7	64	0.0110		
1600	22	147	651	1231				1148	10	53	1478	17	24	1437	17	26	1059	7	61			
2000	22	145	653	1207				1157	10	51	1469	רו	21	1414	17	29	1038	7	103	279700	223200	6290
																			~~			
Comme	nts: 4	103-	Taol	- VAVol	L GAI	MPLES	5 AG	Fou	ouse	2-70	STAL ?	LUBT	@12	05. DF	E-11@	21212	S. DPE	-106	2172	5 TRE-90	0,1735	i
			DPE	80 M	245,						_			,			/			·/····		

			HI	GH VA	CUUI	M		SVE	or	Х	DPE		FIEL	D DA	TA S	HEET	F			CalClea	ın Inc.	
Project L Client: E	ocation: SUESTA	: 1630 P \D	ARK ST	REET			City: A	LMED	<b>A</b> Operato	r (s):	tuk	Site #: (	GOOD	chevr -767			Date: _	4,5,	201 <u>Z</u>	Page 29A	of <u>3</u> 7	
										E	XTRA	CTION	I WEL	LS								
3		Well I.D.						DRE	8		TRE	-9	÷	VIE	ID		VRE	-11			Cumul.	
	Screen	Interval: I	From-To (	ft)												~				Water Meter	Water	
Time	Initial D	epth To V	Vater DTV	V (ft)	Off/On	PHP W	Stinger	9.80		5tinger	10,24		,73 Stinger	9,57	//Ce	stinger	10,4	<u>3/17</u>	1.79	Readings	Extracted	
111110	Vacuum	Flowrate	Temp.	Сопс.			Depth		/01	Depth	(manual)		Depth			Depth	Un/Un		Depth	units	gals	
1.16	( Hg.)		(deg⊢)	(ppmv)	(ppmv)	(n <u>)</u>	(teet)	(ppmv)	(π)	(1991)	(ppmv)	(π)		(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	55700		
<u>4/7</u>	7.7	145	1053	1174				117	10	61,	1441	17	13	1404	17	7.62	1079	-7	13			
0800	22	141	10.51	1123				1198	10	59	1421	17	24	1376	17	22	1011	7	61	781470	176620	6310
1200	22	744	654	1101				1181	10	5	1408	17	21	1351	11	26	1001	2	64	101120	VIJU	/-
1600	22	145	1252	1153				1219	10	53	1452	17	24	1396	17	29	1023	7	65			
2000	22	142	651	1139				1231	10	52	1437	17	22	1374	17	27	1011	7	42	285670	229170	5370
4/1.																						
1/0	17		1.00	1112				1764		64	JULIA	17	16	1260	1-7	74	002	1				
0001	12	143	1.52	1078				1207	10	61	1381	<u> </u>	72	1372	17	7-1	976	- (	46	701-730	72 820	6210
1100	22	148	654	1051				1213	10	55	1364	17	Zle	1301	17	23	910	- <u>/</u> -	101	100100	10070	501-
·																				·		1
		<u> </u>			ļ		· · · ·	<b> </b>														1
										<u> </u>												
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												•			_							1
			L	<u> </u>		L				<u> </u>												
Comme	nts:	1/002	-70P	HED C	OFF V	JELL	51	776-	7, D'	YE-1	$o, D^{i}$	re-1	10	1115.	-							-

			HI	GH VA	CUUI	M		SVE	or	Х	DPE		FIEL	D DA	TA S	HEE	Г			CalCle	an Inc.	
Project L Client: E	.ocation: BUESTA	1630 P D	ARK ST	REET			City: A	LMED	<b>A</b> Operato	r (s): H	τcκ	Site #:	GOOD	CHEVR	OLET		Date: _	<u>4 , (e</u> j	201 <u>Z</u>	Page 32	for <u>37</u>	
										E	XTRA	CTIO	WEL	LS	•		·			]		
	-	Well I.D.			DPE	-1		DRE-	2		TPE	.5	÷	DPE	-8			1			Cumul.	
	Screen	Interval: F	From-To (	ft)	0 -	- T -	11		-1-1					0.5						Water Meter	Water	
Time	Initial D	epth To V Air	Vater DTV	V (ft) Vacor Inlet	Off/On	DTW	H, 2.1 Stinger	Off/On		Stinger	9,70 Off/On		1 Stinger	9,8	<u>e / 1</u>	7,74 Stinger	0#/0=	DTIA	Dilasas	Readings	Extracted	
	Vacuum ("Hg.)	Flowrate (cfm)	Temp. (degF)	Conc. (ppmv)	(ppmv)	(ft)	Depth (feet)	(ppmv)	(ft)	Depth (feet)	(ppmv)	(ft)	Depth (feet)	(ppmv)	(ft)	Depth (feet)	(vmqq)	(ft)	Depth (feet)	units	gals	
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1.00	21	150	1.62	774	162	5	82	101	ر ا	101	649	6	12	1171	10	52	<u> </u>			┠────	<b> </b>	1
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			HI	GH VA	CUU	M		SVE	or	X	DPE		FIEL	D DA	TA S	HEE	Г			CalCle	an Inc.	
Project Client:	Location: BUESTA	1630 P	ARK ST	REET			City: A		A Operate	. (a) k	Tex	Site #:	GOOD	CHEVR	OLET		Date:	<u>4,9</u> ,	201 <u>7</u>	Page 314	of <u>37</u>	
		-							Operato	E	XTRA	CTION	I WEL	LS	, ,		· · · ·					
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İ –	Vacuum ("Hg.)	Flowrate (cfm)	Temp. (degF)	(ppmv)	(ppmv)	(ft)	Depth (feet)	(ppmv)	(ft)	Depth (feet)	(vmqq)	· (ft)	Depth (feet)	(ppmy)	(ft)	Depth (feet)	(nomy)	(舟)	Depth (feet)	units	gals	
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Project I Client: I	ocation:	1630 P	ARK ST	REET			City: A	LMED	<b>A</b> Operato	r (s): K	Iter	Site #:	GOOD -767	CHEVR	OLET		Date: _	4,12	201 <u>2</u>	Page 324	of <u>37</u>	
										E	XTRA	CTION	I WEL	LS	•							
		Well I.D.			DPE	-1		DPE	:-2		DPE	-5		DPE	-8		DP	É-le			Cumul,	
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FIELD DATA SHEET

CalClean Inc.

Date: 4,13,201Z Page 77 A of 37 Project Location: 1630 PARK STREET City: ALMEDA Site #: GOOD CHEVROLET JUL -767-Client: BUESTAD Operator (s): **EXTRACTION WELLS** VRE-1 DPE-9 DPE-8 DPE-10 DPE-11 Well LD. Cumul. Screen Interval: From-To (ft) Water Water Meter 9.861 14,21 17.74 10.241 17.73 9,57 16.59 Initial Depth To Water DTW (ft) 10.43 17,79 Readings Extracted Stinger Time Unit Air TOX Vapor Inlet Off/On ÐTW Off/On DTW Stinger Off/On DTW Stinger Off/On DTW Stinger Off/On Stinger DTW Vacuum Flowrate Temp. Conc. Depth Depth Depth Depth Depth units gals ("Hg.) (cfm) (degF) (ppmv) (ppmv) (ft) (feet) (ppmv) (ft) (feet) (ppmv) (ft) (feet) (ppmv) (ft) (feet) (ppmv) (ft) (feet) 4/13 ON ON ON ON ON 129Le 703 654 le 4/14 DOOI 1e51 3he 1207/10 le 1183 10 llale 104 10 le 3311ele0 4/15 Ble le 165 651 336630 279730 1452 13 le 1D 4/16 163 1952 le 3Le le 341060 285160 5430 87Le ID ( TURNETON WELLS - DPE-9, DPE-10, DPE-11  ${\boldsymbol{\omega}}$ Comments: 

Project Location: 1830 PARK STREET         City: ALMEDA         Site & GOOD CHEVROLET         Date: 4/1/4 2012         Page 3/4 or 3.7           Client: BUESTAD         Operator (a): MCL         -7/6.7				HI	GH VA	CUUI	M		SVE	or	X	DPE		FIEL	D DA	TA S	HEE	Γ			CalClea	an Inc.		
EXTRACTION WELLS           Well LD:         Cumul.           Well LD:         CUMUL         Cumul.           Screen Interval: From-To (1)         Cumul.         Walt Mate:         Cumul.           Well LD:         CUMUL.         Cumul.         Walt Mate:         Cumul.           Screen Interval: From-To (1)         Walt Mate:         Cumul.         Walt Mate:         Cumul.           Walt Mate:         Cumul.         Walt Mate:         Cumula:         Walt Mate:         Cumula:         Walt Mate:         Walt Mate:         Cumula:         Walt Mate:         Walt Mate: <th col<="" td=""><td>Project i Client: I</td><td>Location: BUESTA</td><td>1630 P D</td><td>ARK ST</td><td>REET</td><td></td><td></td><td>City: A</td><td>LMED</td><td><b>A</b> Operato</td><td>r (o) N</td><td>KOR</td><td>Site #:</td><td>GOOD -710</td><td>CHEVR</td><td>OLET</td><td></td><td>Date:</td><td><u>4,16</u></td><td>201<u>7</u></td><td>Page <u>344</u></td><td>for <u>37</u></td><td></td></th>	<td>Project i Client: I</td> <td>Location: BUESTA</td> <td>1630 P D</td> <td>ARK ST</td> <td>REET</td> <td></td> <td></td> <td>City: A</td> <td>LMED</td> <td><b>A</b> Operato</td> <td>r (o) N</td> <td>KOR</td> <td>Site #:</td> <td>GOOD -710</td> <td>CHEVR</td> <td>OLET</td> <td></td> <td>Date:</td> <td><u>4,16</u></td> <td>201<u>7</u></td> <td>Page <u>344</u></td> <td>for <u>37</u></td> <td></td>	Project i Client: I	Location: BUESTA	1630 P D	ARK ST	REET			City: A	LMED	<b>A</b> Operato	r (o) N	KOR	Site #:	GOOD -710	CHEVR	OLET		Date:	<u>4,16</u>	201 <u>7</u>	Page <u>344</u>	for <u>37</u>	
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			HI	GH VA	CUU	M		]SVE	or	X	]DPE		FIEL	.D DA	TA S	HEET	Г			CalCle	an Inc.	
Project L Client: E	ocation:	1630 F	PARK ST	REET			City: A	ALMED.	<b>A</b> Operato	or (s):	TUK	Site #:	GOOD 767	CHEVR	OLET		Date:	4,19,	201 <u>Z</u>	Page <u>35</u>	of <u>3</u> 7	
										E.	XTRA	CTIO	WEL	LS			<u></u>			1		
		Well I.D			VRE	-1		DPE	20		VPE	-9		DPE-	10		275	-11			Cumul.	
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Time	Unit	Air	TOX	Vapor Inlet	Off/On	DTW	Stinger	Off/On	DTW	Stinger	Off/On	DTW	Stinger	Off/On	DTW	Stinger	Off/On	DTW	Stinger	Readings	Extracted	{
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2000	20	164	650	731	342	5	84	881	6	71	957	13	31	1049	13	38	592	ιD	54	364380	308480	4610
														<b></b>						.4		
4/21	70	1107	1.62	7.0	717		60	(D) (r)			0.01					- 0		! 				
000	20	110.1	1055	113	371	5	<u>8</u> 2	042	6	74	934	13	32	1028	13	39	581	10	51	<u></u>		1.10
1200	20	163	1055	698	304	5	24	783	6	71	918	13	34	974	12	24	54Z		53	366880	310980	6110
1600	20	161	652	671	325	5	83	776	6	73	892	13	35	91.3	13	22	500		56	· · · ·		
2000	20	164	654	457	311	5	85	752	6	71	871	13	31	941	13	33	488		54	21,9960	34060	1110
												:							<u> </u>	During	0000	, , , , , , , , , , , , , , , , , , ,
Comme	nts'											_										

1.

			n HI	GH VA	CUUI	М		SVE	or	X	DPE		FIEL	D DA	TA S	HEET	Г			CalClea	an Inc.	
Project L Client: E	ocation:	. 1630 F D	PARK ST	REET			City: A	LMED	A Operato	r (s): N	tor	Site #: (	GOOD ∙7(@*	CHEVR	OLET		Date: <u>/</u>	4 1221	201 <u>7.</u>	Page 30	6 <u>37</u>	
										E	XTRA	CTION	I WEL	LS	14			· · · · · ·				
		Well I.D.			DPE	-1		DPE	-8		DPE	-9	;	DPE	-10		TRE	-n			Cumul.	
	Screen	Interval:	From-To (	ft)				•.												Water Meter	Water	
Time	Unit	epth Io V Air	TOX	V (ft) Vapor Inlet	Off/On	ÐŦW	Stinger	Off/On	DTW	Stinger	Off/On	DTW	Stinger	Off/On	DTW	Stinger	Off/On	DTW	Stinger	Readings	Extracted	
		Flowrate	Temp.	Conc.	(married)	1	Depth	(manual)	(8)	Depth	(		Depth			Depth		5	Depth	units	gals	
4/22	( ng.)	(citti)	(degr)	(ppmv)	(ppmv)	(11)	(1881)	(ppmv)	(π)	(Teet)	(ppmv)	. (π)	Heet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	55 IW		
0001	20	1103	1051	631	328	5	81	724	6	72	859	13	32	932	13	37	503	10	53			
0800	20	164	653	593	294	5	83	681	le	77	828	13	31	904	13	39	476	10	54	377.040	316140	6160
1200	20	162	657	564	271	5	32	668	6	73	808	13	34	886	13	36	46Z	10	51			l'
1600	20	165	655	528	262	5	85	643	le	78	782	13	36	86	13	34	455	10	55			
2000	20	1103	653	539	289	5	83	697	le	7le	Bile	13	37	837	13	31	443	10	52	375480	319580	5530
4/23																						
0001	20	161	651	518	264	5	84	671	<u>e</u>	75	801	13	39	802	13	33	437	(0	<u>94</u>			. 00
<u>~8a</u>	20	164	658	473	231	5	82	658	(e	77	762	13	37	764	13	32	402	10	56	377120	321220	500
1200	21	153	653	678	OFF			821	6	73	843	13	36	942	13	31	516	10	53			
1600	20	167	1051	713				852	8	6	<u>876</u>	13	37	958	13	33	508	11	47			
2000	21	151	654	le92				847	ଞ	63	19/1	13	39	949	13	34	<u>532</u>	11	46	380990	325090	5510
1/24		). <u>.</u>																				1
	21	164	1057	1071				229	2	1.7	612	12	23	011	12	20	<u> </u>	1.1	110			
200	21	151	1.51	1.99				0.11	0	1.5	056	12	71	9/9	17	51	511	11	40			
1700	21	157	1 63	731				01	0	1.7	002	19	22	150	17	06	501	11	41	382330	326430	5210
1000	21	168	1.57	7.9		_		061	0	22	013	12	70	701	13	59	483	11	47			
7000	21	15u	1.51	770				269	8	1.11	014	12	20	167 072	10	31	471	_11	45	21 . L	20 1 -	11-
<u> </u>		1.5-1		160				001	<u>v</u>	<u>(2-1</u>	000	12	27	117	12	00	456	11	48	586520	550420	5530
Comme	nts: 4	23	- TUR	NED C	OFF	DPE	-10	1130	۰.										I			l.

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			) HI	GH VA	CUUI	M		SVE	or	X	DPE		FIEL	D DA	TA S	HEET	r			CalClea	an Inc.	
Project L	ocation:	1630 P		REET			City: A		4	,		Site #: (	GOOD	CHEVR	OLET		Date:	4 1251	2012	Page 374	of 37	
Client: E	BUESTA	D							Operato	r (s): _N	Tel	_	76	1							·	
										E	XTRA		I WEL	LS.								
		Well I.D.						TPE	-8		DPE	-9	:	DPE	-10		DRE	-11			Cumul	
	Screen	Interval: I	From-To (1	ft)				•.	<u> </u>											Water Meter	Water	
	Initial D	epth To V	Vater DTV	V (ft)											· · · · ·					Readings	Extracted	
Time	Unit Vacuum	Air Flowrate	TOX	Vapor Inlet Conc.	Off/On	, otw	Stinger	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	Off/On	DTW	Stinger Depth	units	als	
	("Hg.)	(cfm)	(degF)	(ppmv)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	(ppmv)	(ft)	(feet)	55900	guio	
4/25																						
0001	21	153	651	693				879	8	lel	891	13	37	951	13	33	437	11	46			
0800	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$																					
1200	$\frac{1600}{200} \frac{21}{151} \frac{151}{652} \frac{1617}{697} = \frac{1011}{12} \frac$																					
2000	2000 21 151 653 697 888 8 64 831 13 32 942 13 35 415 11 42 391910 336010 5390 4/26																					
4/26	$\frac{20221}{24}$ $\frac{151}{453}$ $\frac{163}{497}$ $\frac{888}{24}$ $\frac{888}{24}$ $\frac{831}{3}$ $\frac{13}{32}$ $\frac{942}{3}$ $\frac{13}{35}$ $\frac{35}{415}$ $\frac{41}{12}$ $\frac{42}{391910}$ $\frac{336010}{336010}$ $\frac{5390}{124}$ $\frac{113}{152}$ $1$																					
10001	1/24 2001 21 152 651 678 831 8 61 817 13 34 913 13 36 423 11 43																					
DROG	21	157	1.54	1021				808	ð	107	791	13	31	250	13	33	Lini	11	47	3971030	3310720	6160
1200	21	153	10.57	1049				836	8	104	776	13	36	8107	13	31	1119	11	15	100000	5702170	5,
llon	21	151	1252	617				799	B	6	763	13	39	839	13	34	299	<u></u>	210			
1000										NRC							511	<u>u</u>	-102.			
4/27																						
0001	21	152	654	588				768	8	65	716	13	31	801	13	38	368	11	48			
ංසිංත	21	156	652	637				804	8	12	693	13	34	869	13	3le	382	11	47	397860	341960	5230
4/28							<u> </u>															
2045	21	151	1253	618				251	8	1010	721	13	25	9.7	13	27	1411.	11	111			
OHDO	21	153	1051	693				172	<u>x</u>	103	1.94	13	37	0710	13	29	201	11	<u>u</u> L	102022	21.10**	
								110	Ų			10	11	<u>ore</u>	1.5	21	201	11	44	106550	346730	
Comme	nts: L	1/28-	UNIT	TSHO	70 70	FC	223	60	ON	4/2-	I, FI	xed	PROT	sign.	BAC	KUT	· tr	LONA	IING	@ 001	SON	1
4/29	D. T	OOK	VAPO	14 GA	MPLE	SA	, FOL	Low	5	Tora	TNL	ET (	2.01	100	DRE.	20	04		P- 49	Q. DINT.	~	

DRE-10 @0430, DRE-11@0440, SHUT DOWN @0500. END H20 METER-402830.

			ню	SH V	ACUU	M		SVE	or	x	DPE		FIELD	D DA	TA SH	IEET				CAL	.CLEAN I	INC.
Project Lo	ocation: 1	630 PA	RK STRE	ET			City: Al	.MEDA		١		Site #: (	GOOD C	HEVR	OLET		Date: 0/	12512	01 <u>2</u>	(71- Pag	i) 734-913. e <u>] B</u> of ]	29
Client: B	UESTAD								Operator (	(s): <u>N</u>	ECK											
										OBSE	RVAT	ON W	/ELLS						_			
WELL	Mhl-	·	MW	3	DRE-	3_	VP-1		VP-Z	-	<u>VP3</u>	5			-						L	
SCREEN	7,91	7	RIU		7.9	5			-											· .		
Time	Vacuum "H₂O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H₂O	DTW (ft)	Vacuum <sup>;</sup> "H <sub>2</sub> O	DTW (ft)	vacuum "H₂O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)
0125		*										_					· .					
1200	0.00	7.92	0.00	8.14	0,0	7.85	0.00		0.00		0,00											
1300	0.05		0.00		0.15	7.87	D.45		0,20		0.05											
1400	0.00	-	0.00		0.05	7.88	0.15		0,00		0.00											
1500	0.20		0.00		0.00	7:89	0.35		0.25		0.15											
1600	0.25		0,00		0.15	7.91	0.75		0.60		0.20							-				
1700	0.25		0.00		0.15	7.91	0.80		0.75		0.30								<b> </b>	Ĺ		
1800	0.25		0,00		0.20	7.93	0.90		0,80		0,30										ļ'	<u> </u>
1900	0.25		0,00		0.25	7.92	0,90		0.80		0.30											<u> </u>
2000	0.25		0,00		0.30	7.94	0.90		0,90		0.30										<b></b>	<b> </b>
01/26																					<u> </u>	ļ
10001	0.25		0,00		0.35	7,99	1,10		0.95		0.30						<b> </b>		N.		<b> </b>	
0800	0.30		0.05		0.35	8.03	1.25		1.05		0.40			<u> </u>			<u> </u>					<u> </u>
1200	0,30		0.05		0,40	8.09	1.30		1.10		0.45		<u> </u>		<u> </u>		İ				<u> </u>	<u> </u>
1600	0.30		0.05		0,45	8.13	1.30		1110		0,45				<b> </b>		<b> </b>		<u> </u>			<u> </u>
2000	0.30		0.05		0.45	811	1.30		1.10		0,45										<u> </u>	<b> </b>
10127	625					0 01	175		1.0		OUE			<u> </u>								
10001	0.50		0.09		0.45	0.21	1.50		1.15		0.45			ļ							<b> </b> i	<b> </b>
0800	0.20		000		0,40	0.34	1,20		112		0.42		<b> </b>								<b> </b> '	
1600	0.30		0.05		0.45	8,41	1.25		1.15		0.45											-2

			HIC	GH V	ACUU	M		SVE	or	Х	DPE		FIELD	D DA	TA SH	IEET				CAL	CLEAN	INC.
Project Lo	cation: 16	630 PA	RK STRE	ET			City: Al	.MEDA	Operator	(s): NJ	ick	Site #:	GOOD C	HEVR	OLET		Date: <u>61</u>	<u>127</u> 12	01 <u>2</u>	(714 Page	4) 734-913 e <u>28</u> of _	29
										OBSE	ERVATI	ON W	/ELLS									
WELL	MW-		Mhl-	3	DPE	-3	VP-1		VP-2	_	VP-J	5										
SCREEN									2						ŕ							
DTW (ft) Time	Vacuum	WTO	Vacuum	DTW	Vacuum	DTW	Vacuum <sup>;</sup>	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	WTQ	Vacuum	DTW	Vacuum	WTO	Vacuum	DTW
	"H₂O	(ft)	"H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H₂O	(ft)	"H₂O	(ft)
01/27		-4																				
2000	0.35		0.05		0.45	8.4P	1.20		1.20		0.50					-						
0128	: ۴ مور ب																					
0001	6.40	r	0.05		0.45	8.59	1'10		1.25		0,50											
0800	0.40		0.05		0.50	8.63	1.10		1.30		0.50											
1200	0,40		0.05		0.50	8.74	1.10		1.30		0,50											
1600	0,40		0.05		0.50	8.88	1.10		1.30		0.50											
2000	0.40		0,10		0.50	8.98	1.00		1.35	L	0,55											
01/29																						
0001	0.45		0.05		0.55	9.07	1.00		1.40		0.55											
0800	0,45		0,10		0.55	9.29	0,90		1.45		0.55											
1200	0.45		0.05		0,55	9.38	0.85		1.45		0.55											
1600	0,45		010		0.55	9.51	0.80		1.50		0.55											
2000	0,45		0,10		0.55	9.62	0.85		1.50		0.55											
0130							· · · ·										S					
1 000	0.40		0.05		0.60	9.18	0,80		1.55		0.60											
0800	0.45		0.10		0,60	9.75	0.75		1.55		0.60											
1200	0.45		0.10		0.60	9.86	0.10		1.60		0.45											
1600	0.45		0.10		0.45	9.85	0.75		1,60		0.60											
2000	0.45		0,10		0.60	9.89	0,70		1.165		0.65											

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			HIC	SH V	ACUU	M		SVE	or	х	DPE		FIELD	D DA	TA SH	EET				CAL	CLEAN I	NC.
Project Lo	cation: 10	630 PAI	RK STRE	ET			City: AL	.MEDA	Operator	a N	TCL	Site #: (	GOOD C	HEVR	OLET		Date: 💋	<u>1] 3/</u> ] 2	01 <u></u>	(71- Page	() 734-913 = of	29
									Operator	OBSE	RVATI	ON W	/FLLS				_					
WELL	MIL	-1	ML-	3	DPE-	3	VP-1		VIP-7		VP-3											
SCREEN				×		<u> </u>	<b>B</b> . (								· · · · · · · · · · · · · · · · · · ·							
DTW (ft)	Vacuum		Vacuum	DTIM	Vacuum	DTW	Veenure	DTM	1/00000	DTM	1/2011/100	DTM	Manual	DTM	140.000	DTM	16	DTH				
Inne	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	vacudij≀ "H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	vacuum "H₂O	(ft)	vacuum "H₂O	(ft)	vacuum "H₂O	(ft)	Vacuum "H₂O	(ft)
0131															-		_					
0001	0.40	,	6.10		0,60	<b>9,9</b> 3	0.75		1.60		0,60											
0800	0.45		0,10		0.65	9.99	0.70		1.60		0,65					-						
1200	0,45-	-	0.05		0.60	10.02	0.75		1.60		0.65											
1600	0.40.		0.05		0.65	10.07	0.75		1.45		0,65			<u> </u>								
2000	0.40		0.10		0.65	10,09	0.75		1.65		0.65											
02/01																						
2001	0,45		0.05		0,65	1013	0.75		1.40		0.65											
080	0,42		0.10		0.60	10,17	0,70		1.65		0.65											
100	0.45		0,10		0.60	10.19	0.10		1.125		0.60	··						<b></b>	'			
2000	0.40		0.10		0.60	10,00	0,10		1.65		0.60											┟━╌╼┤
2/07	0.40		0.10		N(9,0	* <b>5</b> .67	0.10		1.007		0100								<u>\</u>	· · · · · · · · · · · · · · · · · · ·		
0000	0.60		0.10		0.60	Inan	0.70		1.100		0.105											
000	0.45		0.10		0.1.0	10.22	0.70		1.106		0.60					·				<u> </u>		
09.00	0.35		0,15		0.50	993	0,0		1.25		0.25											
1000	0,20		0.25		0.30	9,51	0.40		1.35		0.05						<b> </b>					
1100	0,15		0.36		0.10	9.42	0,35		1.00		0,00											
1200	0.05		0,45		0,10	9.31	0.35		0.85	·	000										-	
1600	0.00		0,45		010	9.13	0.30		0.75		0.00											
2000	0.00		0.45		0,00	9.11	0.30		1-40		0.00							<u> </u>				

HIGH	VAC	UUM

SVE	or	х

Operator (s):

FIELD DATA SHEET

CALCLEAN INC.

Date: Z / 3 / 2012

(714) 734-9137 Page 48 of 29

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Project Location:	1630	PARK	STREET
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Client: BUESTAD

City: ALMEDA

Site #: GOOD CHEVROLET

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DPE

	OBSERVATION WELLS																					1
WELL	MW-		MW	-3	DPE	-3	NP-	.1	VP-	-2	NP	-3										
SCREEN								r	4.													
DTW (ft)																						
Time .	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)
2/03		4																				
0001	0.00	·	0.42		0.00	912	0.61		1-51		0.00											
0800	0.60		0.50		0.00	9.12	0.49		1-43		0.00											
1200	0.00	-	0.54		0.00	9.13	0.33		1,45		0.00			_								
1600	0.00		0.62		0.00	9.14	0.30		1.42		10.05											
2000	0.00		0.60		0.00	9.15	0.25		1.43		0.06											
2/04																						
1000	0.00		0.55		0.00	9.16	0.24		1.46	ļ	0.03											
0800	0.00		0.75		0.00	9.19	039		1.43		6.06											
1200	0.00		0.75		0.00	9.29	0.40		1.44		0.03	ļ										
1600	0.00		6.75		0.00	9.40	0-36		1.50		0.06								3.			
2000	0.00		0.70		0.00	9.52	0.34		1-43		0.08						<b> </b>					
2/05		l 										<u> </u>					<u> </u>					
0001	0.00		0.70		0.00	9.68	0.32		1.40		0.10						ļ					
0800	0.00		0.75		0.00	9.83	0.34		1.50		0.11		ļ									
1200	0.00		0.75		0.00	9.89	0.36		1-54		0.08											
1600	0.00		0.75		0.00	9.99	0.32	L	1-50		0.12					_						
2000	0.00		0.80		0.00	10.06	0.34		1.60		0-11											

Comments:

			ню	GH V	ACUU	М		SVE	or	х	DPE		FIELD	D DA	TA SH	IEET				CAL	CLEAN	INC.
Project Lo	cation: 1	530 PA	RK STRE	ET			City: Al	.MEDA				Site #: (	GOOD C	HEVR	OLET		Date: Z	P612	01Z	(71- Pao	4) 734-913 = 5 B of 1	Z9
Client: B	UESTAD						,		Operator	(s): <u>B</u>	ERNAR	200									<u> </u>	<u> </u>
			-							OBSE	ERVATI	ON W	/ELLS									
WELL	MW	-1	MW	-3	10 PE	-3	VP	-1	VP	-2	VP.	-3										
SCREEN				_																		
DTW (ft)	Vacuum	DTM	Vacuum	DTM	Vaguum	DTM	Vooluum	DTW	)/2014/07	DTM	Manun	DTM	Maguria	DTM	160000	DTM	Manual	DTM	1/2000	DTH		
Turie	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	vacuum "H₂O	(ft)
2/06																						
6001	0.00		0.80		6.00	10.12	0.38		1.58		0.0					_				_		
0800	0'0.0		0.75		0.00	10.15	0.30		1.62		0.08											
1200	0.00	-	0.77		0.00	10.15	0.3		1.60		0.08											
1600	0.00		0.82		0.00	10.14	0.34		1.59		0.09											
2000	0.00		0.81		0.00	10.14	0.32		1-57		0.10						- 10 M			·	_	
2/67																- <u>-</u>					-	
0001	0.00		0.83		00.00	10-15	0,34		1.60		D.10											
6800	0.00		0.80		0.00	10.15	0-33		1.61		0.07											
1200	0.00		0.85		0~00	10.13	0.32		1.58		0.08											
1600	0.00		0.79		0.00	0.3	0.35		1.62		90.0											
2000	0.00		0.86		0.00	10.12	0.36		1.39		0.06						<u> </u>					Ļ
2/00	,		· _																			<u> </u>
0001	0.00		0.82		0.00	1012	0.34	-	1-63		0.08										· ·	
0800	0.00		0.79		0.00	10.14	0.32		1.61		0.10											
1200	0.00		0.75		0.00	10.13	0.36		1-64		0.09											
1600	0.00		0.80		0.00	[0.13	0.34		1-62	<u> </u>	0.09									<u> </u>		<u> </u>
2000	0.00		0.81		0.00	10.15	0.38		1.55		0.10											
													_									

\*

		HIG	ACUU	М		SVE	or	х	DPE		FIELD	) DA	TA SH	IEET				CAL	CLEAN I	NC.		
Project Lo	ocation: 1	630 PAI	RK STRE	ET			City: AL	.MEDA	I	, la	5 M	Site #:	GOOD C	HEVR	OLET		Date: 2	10912	01 <u>2</u>	(714 Page	() 734-913 (QB of 2	29
Client: Bl	UESTAD								Operator	(s): <u>P</u>	04-				·							
	and a 1		That I d			•			120	OBSE	RVATI	ON W	/ELLS	_			-					
WELL	MIM-	1	MIM-	5	VYE-	5	VY-1		VY-1	-	VY.S		•									
SCREEN									<u>-</u> 414													
Time	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum∕ "H₂O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)
02 1º01																						
0001	0.00		0.75		0.00	10.17	0.35		1.57		0,08											
0800	0.00		0.76		0.00	10,19	0.30		1.69		0.10											
1200	0,00-	-	0.80		0,00	10.21	0.34		1.58		0,07											
1600	0.00		0.83		0,00	10.20	0.33		1.61		0.05											
2000	0.0		076		0.00	10,21	0.35		1.63		0,08											
02/10										<b></b>												
1000	0.00		0.81		0,00	10.20	0.31		1.59		0,10											
0800	0,00		0.84		0,00	10,22	0,34		1.57	<u> </u>	0.09				ļ				<u> </u>			
1200	0.00		0.82		0.00	10.21	0.32		1.59		0.07											
1400	0.00		0.81		0.00	10.20	0.35		1.52	<b> </b>	0,09				<b> </b>		<u> </u>		ļ			
2000	0.00		0,84		0,00	10,22	0.31		1.54		0.10				<u> </u>							
02 11																	ļ					
Dool	0.00		0.83		0.00	10.21	0.37		1.51		0.11			i								
0800	0.00		0.81		0.00	10.23	034		1.57		0.07											
1200	0.00		0.85		0.06	10.25	0.35		1.56e		0.05											
160	0.00		0.84		0.00	10.24	0.33		1.53		0.03											
2000	0.00		0.82		0.00	10.27	0,38		1.58		0.08											
					ļ								ļ									
			HIG	SH V	ACUU	Μ		SVE	or	X	DPE		FIELD	D DA	TA SH	IEET				CAL	CLEAN I	NC.
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Project Lo	cation: 16	530 PAI		ET			City: AL	.MEDA	•	.].	~ 1.1	Site #: (	GOOD C	HEVR	OLET		Date: 03	2/2/2/2	01 <u>2</u>	(714 Page	1734-973 $1B_{0}f_{1}$	29
Client: B	JESTAD								Operator	(s): <u>N</u>	CL		<u>.</u>									
										OBSE	ERVATI	ON W	/ELLS							-		
WELL	MIN-	1	MW-	3	DPE	-3	VP-1		VP-2	a	VP-3	•										
SCREEN															ĺ							
DTW (ft)	i																					
Time	vacuum "H₂O	(ft)	vacuum "H₂O	(ft)	"H <sub>2</sub> O	(ft)	vacuum "H₂O	(ft)	"H <sub>2</sub> O	(ft)	vacuum ″H₂O	(ft)	vacuum "H₂O	(ft)	vacuum "H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	vacuum "H <sub>2</sub> O	(ft)	vacuum "H₂O	(ft)
02/12		4																				
0001	0.00		0.81		0.00	10.26	0.31		1.57		0.05											
0800	0.00		0.83		0,00	10.29	0.35		1.55		80,0										-	
1200	0,00-	-	0.35		0.00	10.28	0.39		1.58		0.10											
1600	0,00		0.84		0.00	10.25	0.36		1.53		0.09											
2000	0.00		0.87		0.00	10.27	0,38		1.54		0.07											
<u> </u>										ļ	<u> </u>						ļ		ļ			<b></b>
02/13				ļ					L													<b> </b>
0001	0,00		0.86		0.00	10.29	0.33		1.57	ļ	0.06				ļ		<u> </u>		L			ļ
0800	0,00		0.85		0.00	10.31	0.37		1.59		0.08				<u> </u>							
1200	00,0		0.83		0.00	10,28	0.35		1.53		0.02								<u> </u>			
1400	0.00		0.81		0.00	10.25	0.34		1.57		0.03				<u> </u>		ļ		N I			
2000	0.00		0.84		0.00	10,27	0.32	ļ	1.54		0.01				ļ			<b> </b>	<u> </u>			L
					<b> </b>		I		ļ	<b> </b>	┣──		ļ	<u> </u>	<b> </b>		<u> </u>	<u> </u>	<b> </b>			<b> </b>
02/14							0.9 m							<u> </u>	<b> </b>				<u> </u>			
1000	0,00		0.85		0.00	10.29	0.50	ļ	1.51	<u> </u>	0,00	ļ	ļ	ļ		<b> </b>	1	<b>_</b>	ļ			<u> </u>
0800	0.00		0.81		0,00	10.33	0.27		1.46		0,00		<u> </u>	<u> </u>			<u> </u>	<u> </u>				Ļ
1200	0.00		0.87		0.00	10.35	0.28		1.49		0.00		<u> </u>	ļ			ļ		L			<u> </u>
1600	000		0.84		0.00	10.34	0,210		1.48		0,00				<u> </u>						L	<u> </u>
2000	0.00		0.82		0.00	10.35	0.29		1.45		0.00	 		<u> </u>	<b> </b>	 			ļ			ļ
					<u> </u>		<u> </u>		<u> </u>													<u> </u>

			HIC	GH V	ACUU	M		SVE	or	х	DPE		FIELD	D DA	TA SH	IEET				CAL	CLEAN	INC.
Project Lo	ocation: 1	630 PA	RK STRE	ET			City: AL	.MEDA			1	Site #:	GOOD C	HEVR	OLET		Date: 1	15,2	01 2	(71- Page	4) 734-913 e BB of	29
Client: B	UESTAD						-		Operator	(s): <u>M</u>	JUL				_							
										OBSE	RVAT	ON W	/ELLS									
WELL	Mh	-1	MW	-3	DPE-	3	VP-1		VP-2		VP-3											
SCREEN								p.							· · · · · · · · · · · · · · · · · · ·							
DTW (ft)	Vacuum	DTW/	Vacuum	ULL N	Vacuum		Vacuum	WTG	Vacuum		Vacuum	DTW/	Vacuum	DTW/	Vacuum		Vacuum	DTIM	Vacuum	DTM	Voouum	DTM
	"H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)
02/15		•													,							
0001	0.00		0.81		0.00	10.32	0.27		1.43		0.00											
0800	0.00		0.79		0.00	10.37	0.29		1.41		0,00											
1200	0.00	-	0.85		0,00	10,38	0.31		1.42		0,00											
1600	0.00		0,84		0,0	10,34	0.30		1.43		0.00											
2000	0.00		0.87		0.00	10.32	0.23		1,44		0,00				<b> </b>		ļ					
														<u>_</u>								
02/16							0-0															<u> </u>
0001	6.00		0.02		0.00	10:57	0.71		1.4)		0,00		<b> </b>						├──		<b> </b>	
6800	0,00		0.81		0.00	10,39	0,10		1.45		0.00						<u> </u>	·	┠━───			<u> </u>
1200	0.00		0.84		0.00	10,37	0.01		linte		0.00											──
1600	0.00		0.85		0.00	10:38	0.27		1.43		0,00		<b> </b>		<b>_</b>				<u>\</u>			<b> </b>
2000	0,00		0.86		0,00	10.49	0.31		1.44		0.00										<b> </b>	┟───
m/17	, 						<b> </b>															
0901	0,00		0,83		0.00	10,41	0.30		1,45		0.00											
12800	0,00		0.87		0.00	10.42	0.25		1.47	1	0.00				<u> </u>						[	
1200	0,00		0.81		0.00	10.40	0.28		1.46		0.00											<b></b>
1600	0,00		0.83		0,00	10,41	0.25		1.41		0,00											
2000	0.00		0.81		0.00	10.43	0.27		1.43		0.00											

			HIC	GH V	ACUU	M		SVE	or	х	DPE		FIELD	D DA	TA SH	EET				CAL	.CLEAN I	INC.
Project Lo	cation: 10	630 PAI	RK STRE	ET			City: Al	.MEDA				Site #: (	GOOD C	HEVR	OLET		Date: 02	1/8/2	D1Z	(714 Page	I) 734-913 ≥ <u>1</u> B of	29
Cilent: Bl	JESTAD								Operator	(s): <u>N</u>	tck_											
										OBSE	ERVATI	ON W	<b>ELLS</b>									
WELL	MW-	-1	MW	ς Γ	DPE	ί,	VP-1		VP-7	2	VPo	3										
SCREEN									dir.	-												
DTW (ft) Time	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	 Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	WTO	Vacuum	DTW	Vacuum	DTW
	"H <sub>2</sub> O	(ft)	"H₂O	(ft)	"H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H₂O	(ft)	"H₂O	(ft)	"H₂O	(ft)	"H₂O	(ft)	"H₂O	(ft)	"H₂O	(ft)	"H <sub>2</sub> O	(ft)
02/18		-																				
6001	6,00		0,82		0.00	10.41	0.31		1.41		0,00											
0800	0,00		0.87		0.00	10,42	0,27		1.47		0,00											
1200	0.00	-	0.84		0,00	内山	0.29		1.43		0.00											
1600	0.00		0.85		0.00	10,41	0,30		1.44		0.00											
2000	0.00		0.83		0.00	10,45	0.28		1.45		0.00									 		ļ
- /19																						
061	0 00		001		0.00	10 kg	621		1 11 12													
0001	6.00		0.94		0.00	100 IND	0.30		1.50		0.00										!	
1200	0.00		0.87		0.00	10.41	0.27		1.53		0.00											
1400	0,00		0.81		0.00	10,44	0.29		1.51		0,00											<u> </u>
2000	0.00		0.82		0.00	10,46	0.25		1.54		0.00											
02/20																						
0001	0.00		0.84		0.00	10,43	0.26		1.55		0100											
0800	0,00		0.83		0.00	10.45	027		1.53		0.00											
1200	0.00		0.82		0.00	10.48	0.30		1.52		0.00											
1600	0,00		0.85		0.00	10.51	0,32		1.57	<u> </u>	0.00			ļ								
2000	0.00		0.86		0,00	10,49	0.31		1.54		0,00											
												l										

			HIC	SH V	ACUU	м		SVE	or	X	DPE		FIELD	DA	TA SH	EET				CAL	CLEAN I	NC.
Project Lo	cation: 10	330 PAF		ET			City: AL	.MEDA	1	,		Site #: (	GOOD C	HEVR	OLET		Date: 0	<u>421</u> 12	01	(714 Page	4) 734-913 e <u>10B</u> of <u>(</u>	29
Client: Bl	JESTAD								Operator	(s): <u>N</u>	CK											
										OBSE	RVATI	ON W	/ELLS									
WELL	MW.	-1	MW.	3	DPE-	3	VP-		VP-Z	2	VP-3	5										
SCREEN	-								-													
DTW (ft)	Vacuum	TW	Vacuum	TW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW
11110	"H <sub>2</sub> O	(ft)	"H₂O	(ft)	"H₂O	(ft)	"H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H₂O	(ft)	"H₂O	(ft)
02/21		4																		-		
0001	0.00		0.81		0.00	10.48	0.27		1.51		0.00											
0800	0.00		0.83		0.00	10.51	0.291		1.53		0,00	<u> </u>										
1200	0,00	-	0,83		0.95	10.53	0,31		1.54		0.00			I 								
1600	0,00		0.87		0,00	10.52	0.27		1.57		0,00											
2000	0.00		0.81		0.00	10.41	0.28		1.56		0,00								ļ			
02/22														1								
0001	0.00		0.83		0,00	10.51	0.25		1.52	 	0,00						<b></b>		ļ			
0800	0.00		0.85		0,00	10.63	0.23		1.54		6,00				<b> </b>	<u> </u>						<b></b>
1600	0.15		0.80		0.00	9,78	0,30		1.50		0.00											
2000	0,20		0,15		0.00	9.81	0.30		1150		0.00	L										<b></b> !
02/23											ļ					(						
1000	0.25		0,80		0.00	9.93	0.35		1.50		0.05	<u> </u>					<u> </u>					
0800	0.25		6.80		0.00	9.95	0.35		1.50		0.05						n)					
1200	0.25		0.85		0.05	9.96	0.35		1.50		0,10						ļ					
1600	0.25		0.80		0.05	9.98	0.40		1.50		0110	ļ										
2000	0.30		0,80		0.05	10.01	0.40		1.55		0.15						3				<u> </u>	
02/24																	ļ					
0001	0,30		0.75		0.05	10.05	0.40		1.55		0.15											
0800	0.35	<u> </u>	075		0.05	10.11	0,45		1.55	ļ	0.15				<u> </u>		<u> </u>			ļ		
1200	0.35		070		0.05	10.13	0.40		1.50		0.20						<u>                                     </u>					

			HIC	SH V	ACUU	M		SVE	or	X	DPE		FIELD	) DA	TA SH	EET				CAL	.CLEAN I	NC.
Project Lo	ocation: 10	330 PAI	RK STRE	ET			City: Al	.MEDA	•	- 44		Site #: (	GOOD C	HEVR	OLET		Date: _0	212412	01 <u>Z</u>	(714 Page	i) 734-913) e_ <u> </u> /₿ of _	29
Client: B	UESTAD								Operator	(s): <u>N</u>	SK.											
į										OBSE	RVATI	ON W	<b>ELLS</b>									
WELL	MIN	ー	MW	-3	DPE	-3	VP-1		VP-2	-	VP-3	>										
SCREEN						·									·							
DTW (ft)	Vacuum	πτw	Vacuum	DTW	Vacuum		Vacuum	DTW	Vacuum		Vacuum		Vecuum	MITO	Vacuum	DTM	Veeuum	DTM	Manutan	DTM	1600000	DTM
	"H₂O	(ft)	"H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)
02/24		ه.																				
1600	0.75		0.80		0.05	10.17	0,40		1.50		0,20											
2000	0.30		0.75		0.05	10,19	0.40		1.50		0.15											
02/25		•																				
0001	0.35		0.80		0.05	10,21	0,40		1.55		0.20				Ę,							
6800	0.35		0.75		0.05	10.23	0.35		1.50		0.20											
1200	0.35		0.75		0.05	10,27	0.40		1.55		0.20											
1600	0.35		0.70		0.05	10.28	0.35		1.55		0.15											
2000	0.35		0.70		0.05	10,26	0,40		1.55		0.20											
02/24																						
0001	0.35		0.75		0,05	10.28	0.35		1.50		0,15											
0800	0.30	L	0.75		0.10	10.29	0.35		1,50		0,20											
1200	0.35		0.70		0.05	10.31	040		1.55		0.20											
1600	0.30		0.70		0.10	10.30	0.40		1.55		0.15											
2000	0.30		0.75		0.10	1032	0.35		1.50		0.15											
02/27									<i>.</i>								-					
0001	0.34		0.80		0.10	10.31	0.40		1.55		0.20											
0800	0.34		0.75		0.05	10.34	0:45		1.55		0,15											
1200	0.35	 	0.70		0.05	10.35	0.40		1.50		0,15											
1600	0.35		0.70		0.05	1931	0,40		1.50		0,20											
2000	035		00.0		0.05	1033	0.40		1.50		6.20											

			ню	SH V	ACUU	M		SVE	or	х	DPE		FIELD	D DA	TA SH	EET				CAL	CLEAN I	NC.
Project Lo	ocation: 10	630 PA	RK STRE	ET			City: Al	.MEDA		. 1	e. 1.	Site #:	GOOD C	HEVR	OLET		Date: 02	7. 1 <b>28</b> 1 21	01 <u>2</u>	(71- Page	4) 734-913 = <u>125</u> of _	29
Client: B	UESTAD								Operator	(s): <u>M</u>	<u>ur</u>											
										OBSE	ERVATI	ON W	/ELLS									
WELL	MW	1	Mkl-	3	DPE-	3	VP-1		V7-2	_	VP-3											
SCREEN	<u></u>			2.1					20								- 27					
DTW (ft)	Venue	DTM	Maguum	DTM	Vaguum		Vacuumi	DTW	Vacuum		Vacuum		Vacuum	DTW	Vacuum	DTM	Vacuum	DTM	Vooring	DTM	Maguum	
lime	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)
02/28																						
0001	0.40		0,70		0.05	1234	0,40		1.45		0:20	. <u>.</u> .				. <u>.</u>						
0800	0.35		0,70		0,10	10.36	0.35		1.45		0.20											1
1200	0.40 -	1	0.70		010	10.78	0.35		1.40		0,24											
1600	0.40		6.65		0.05	10.37	0.35		1.40		0.25											
2600	0.40		0.65		0.05	1038	0.35		1.45		0.20											
02/29				-																		
0001	0.45		0.66		0.10	10.39	0.34		1.40		0.20											
0800	0.45		0.45		0.10	10,41	0.35		1.35		0.25											
1200	0.45		0.65		0.05	10.39	0,40		1.30		0.20						-					
1600	0.40		0.60		0.10	10.40	0,40		1.30		0.20											
2000	0.45		0,65		0.05	10.42	0.35		1.35		0.20											
03/01																						
0001	6.45		040		0.10	10.41	0.40		1.35		0.25					1						
0800	0.40		0.65		0.10	10.43	0.35		1.30		0.25											
1200	0.44		0.60		0.10	10.42	0.40		1.30		0.20											
1600	0.40		0,40		0.05	10.44	0,40		1.30	1	0.20											
1000	0.40		0,60		0.05	10,41	0,40		1.25		0.15											
03/02	[																		1			
0001	0.46		0.60		0,10	10.44	0.40		1.25		0.15				1		1		<u> </u>			
6800	0,45		6.40		010	10.47	0.35		1.20		0.20								1			
Comme	nts:		-		-	-	-	19	0	<u> </u>		-	-	<u></u>					•	d.a <u></u>		

99. S.

			HIC	SH V	ACUU	M		SVE	or	х	DPE		FIELD	DA	TA SH	EET				CAL	.CLEAN II	NC.
Project Lo	cation: 16	630 PA	RK STRE	ET			City: AL	.MEDA	•	. 1	5.11	Site #:	GOOD C	HEVR	OLET		Date: 03	102/21	01 <u>2</u>	(71- Page	i) 734-9137 9 <u>138</u> of <u>1</u>	29
Client: Bl	JESTAD								Operator	(s): <u>M</u>	yur											
										OBSE	RVATI	ON W	<b>ELLS</b>									
WELL	MIL-	1	MW-	3	DPE-	3	UP-1		VP-Z		VP-3											
SCREEN									1	=												
DTW (ft)	Voouum	DTW	Voouum	DTM	Vacuum	DTW	Vacuum	DTW/	Vacuum		Vacuum	DTW	Vacuum	DTW/	Vacuum		Vacuum	DTM	Veguure	DTM	Veguum	DTM
	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)
3/02															a							
1200	0.40		0.65		010	10.45	0.35		1,15		6.20											
1600	0.40		0,60		0.10	10,43	0.35		1.10		0.15											
2000	0,40-	-	0.65		6.10	10,41	030		1.15		0.20											
3/03																						
0001	6.40		0.60		010	10.42	0.30		1.15		<b>Q15</b>											
0800	0,45		0,65		0,0	10.47	0.35		1.20		0.25											
1200	0.45		0.60		0,10	19.45	0.30		1.20		0.20											
1600	0.45		0.60		0.05	10,44	0.35		1.15		0,15											
2000	0,40		0.60		010	10.48	0.30		1.15		0,10											
3/04																	H.					
0001	0.40		0,65		0.05	10.49	0.30		1.10		0,15											
6900	0.45		0.65		0110	10,53	0.40		1,20		0.25											
1200	6.40		0.60		0,10	10.51	0.35		1.15		0.20											
1400	0,40		0.65		0,10	10.52	0.35		1.20		0.20						ĺ					
2000	0,45		0,60		0.10	10.55	0.35		1.20		0.25											
3/05																	1					
0001	0.45		0.65		010	10,56	0.30		1.15		0.25											
0800	0.40		0.65		0.05	10.51	0.30		120		0.20											
1200	0,40		0.65		0,05	(0.6)	0.35		1.20		0,25											
1600	a45		0.65		0.10	10.60	0.30		1.10		0.25											

			HIG	SH V	ACUU	M		SVE	or	Х	DPE		FIELD	DA	TA SH	EET				CAL	CLEAN I	NC.
Project Lo	cation: 16	630 PAI	RK STREI	ET			City: AL	.MEDA		1	1.	Site #:	GOOD C	HEVR	OLET		Date: 3	1512	01 <u>2</u>	(714 Page	1) 734-9137 3 140 of 2	29
Client: B	JESTAD								Operator	(s): <u> </u>	TUK											
										OBSE	RVATI	ON W	<b>ELLS</b>									
WELL	MIN-	1	MW-	3	DYE-	3	VP-1		VP-Z		VP-Z	5										
SCREEN									:	-												
DTW (ft)	) 			DTH		DTM	Manual	DTN		DTM	Manual	DTM	Manual	DTM	Maguna	0754/	Magyum	07044	Vanuum	DTDA	1/2010	
Time	Vacuum "H₂O	(ft)	Vacuum "H₂O	(ft)	vacuum "H₂O	(ft)	vacuum "H₂O	(ft)	vacuum "H₂O	(ft)	vacuum "H₂O	(ft)	vacuum "H₂O	(ft)	vacuum "H₂O	(ft)	vacuum "H₂O	(ft)	vacuum "H₂O	(ft)	vacuum "H₂O	(ft)
03/05		-																				
2000	0.40		0.60		0,10	10.61	0.35	·	1.10		0,20											
08/04																						
0001	0,45	-	0.60		0.10	10.60	0.35		1.15		0.25											
080	0,45		660		0.10	10.61	0.30		1.10		0.25									_		
1200	0.40		0,60		0.10	10.62	0.35		1,10		0.20											
HEDD	0.45		0.65	_	0.05	10.64	0.35		1.10		0.25											
2000	0,40		0.60		0.10	10,61	0.30		1,15		0.25											
3/07																						
0001	0.40		0.65		0.05	10.63	0.35		1.15		0.25											
0500	0,45		0.60		0.05	10,65	0.35		1.15		0.25				-							
1200	0.15		0.25		1.60	10.79	0.05		0.25		0,45						1					
1600	0.15		0.10		1.50	10.81	0.05		0,20		0.45											
2000	0.20		0,00		1.50	10.84	0.05		0.15		0.35						P					
3/08							-										1 1					
0001	0.15		0,00		1,70	10.89	0.04		0,15		0,40											
0800	0.15		0.00		1,90	11.01	0.05		0.15		0.35											
1200	0.15		0,00		1.95	11.04	0.05		0,10		0.34											
1400	0.15		0,00		1.90	11.03	0.05		0.15		0.40											
2000	0.15		0.00		2.00	11.06	0.05		0.10		0,45											
L			<u> </u>																			

			HIG	SH V	ACUU	M		SVE	or	Х	DPE		FIELD	DA	TA SH	IEET				CAL	CLEAN I	NC.
Project Lo Client: BL	cation: 16 JESTAD	530 PAF	RK STRE	ET			City: AL	MEDA	Operator	(s): <u>M</u>	ick	Site #: (	GOOD C	HEVR	OLET		Date: 3	<u>9</u> 12	01 <u>2</u>	(71- Pag	4) 734-913 e <u>1 5 of -</u>	29
ſ										OBSE	RVAT	ON W	/ELLS					-		-		
WELL	MW-	1	Mill	3	TYPE	3	VP-1		VP-Z	le .	VP-3	5										
SCREEN		1852																		· ·		
DTW (ft)	Vacuum		Vacuum		Vacuum		Vacuumi		Vacuum		Vacuum		Vacuum		Vacuum	DTW/	Vacuum	WITCI	Vacuum	DTM	Vacuum	
Time	"H <sub>2</sub> O	(ft)	"H₂O	(ft)	"H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)
3/09		-																				
0001	0.15		0.00		2,00	11.10	0.05		0.10		0,40											
0800	0.20		D.00		2.00	11.13	0.75		0.15		0,45											
1200	0.15-	-	0,20		0.90	11.16	0,10		0.15		0,40			i								
1400	0.15		0,25		0.85	11,07	OIK		OIG		0.40											
2000	0,20		0.25		0.89	1409	010		0.15		0.35											
3/10					0.70				0.5										<b> </b>			
0001	0.15	<u> </u>	0,20		0,10	11.08	0.15		0.15		0.30											
0800	0:10		0165		0.00	11.00	0,19		0.0		0.30								<u> </u>			$\vdash$
1600	0,20		0.20		0.39	11.07	0.00		210		0.05								<u> </u>			
1600	0:00		0,00		0,00	11.04	0.00		0.15		0.00											
1000	0,19		0.00		0.47	(hD)	0,00		0113		0.10					2						
2/	0.15		0.15		O.UD	15.05	0.26		0.15		0.30			<u>-</u>								
0800	0.20		0.20		0,40	11.07	0.25		0.20		0.25		<b> </b>				İ 👘		1			
1200	0,20		0.25		0.35	11.03	0.25		0,20		0.30											
1600	0,20		0.20		0.40	10.99	0.25		0.20		0.36				<b> </b>				<b> </b>			
2000	0.15		0.25		0.40	10.97	0.25		0.25		0.35											
3/12																						
0001	0.15		0.25		0.40	10.98	0.25		0.25		0.30											
овоо	0,15		0.20	L	0,40	11.01	0.25	l	0.25		0.35											

			HIC	SH V	ACUU	M		SVE	or	Х	DPE		FIELD	DA	TA SH	IEET				CAL	.CLEAN I	NC.
Project Lo	cation: 10	530 PAF	RK STRE	ET			City: AL	.MEDA			6.4	Site #: (	GOOD C	HEVR	OLET		Date: 3	12/2	01 <u>Z</u>	(71- Page	#) 734-913; ∋ <u>  4B</u> of _	<u>29</u>
Client: B	JESTAD								Operator	(s): 14	ur											
										OBSE	RVATI	ON W	ELLS									
WELL	MW	-1	MW	1-3	DPE	-3	VP-1		VP-Z	-	VP-3	,										
SCREEN							_															
DTW (ft)	1/2011		Magnus	DTIAL	Maguna	DTM	Maguna	OTA	Manual	DTM	2/2000	DTW	14	DTM		0714				-		
Time	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H₂O	(ft)	"H₂O	(ft)	"H₂O	(ft)	"H <sub>2</sub> O	(ft)	vacuum "H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	vacuum "H₂O	(ft)
3/12																						
1200	0.15		0.20		0.45	11.03	0.20		0.25		0.35											
1600	0.15		0.20		allo	11.01	0.20		0.25		0.35											
2000	0.15	-	0.20		0,45	10.97	0,20		0.25		1.40											
3/13																						
0001	0,15		0.25		0.40	10.96	0.20		0.20		0.35											
0800	0,15		0.70		0,40	10.91	0.25		0,20		0.40											
11:00	0.15		0.25	<u></u>	0.40	10.94	0.25	. <u> </u>	0.20		0.35	<u> </u>										
2000	0,15		0.25		0,45	10.90	0.70		0.25		0.35					_ <u>.</u>			ļ			
3/14																						
0001	0,19.		0.20		0,45	10.84	0.25		0,20		0,40											
0800	0,15		0.25		0.45	10.87	0.20		0,15		0.40						<u> </u>					
1200	0,15		0.25		0.40	10.86	0.25		0,20		0.35											
1600	0.15		0.25		0.40	1981	0,20		0.15		0.40											
2000	0,15		0.25		0,36	10.83	0,25		0.20		0.40			-1								
3/15																1	<b></b>					
0001	0,20		0.20		0.35	10.81	0:25		0.20		0.35						L		ļ			
0800	0.20		0,20		0.35	10.82	0.25		0.20		0.40								ļ			
1200	0,20		0.20		0.35	10.85	0.25	. <u> </u>	0,20		0.40											
1600	0.20		0.20		0.35	10.80	0.25		0.20		0.35											
2000	0,20		0.20		0.35	10,87	0,20		0.20		0,35			L								

			ню	SH V	ACUU	M		SVE	or	х	DPE		FIELD	DA	TA SH	IEET				CAL	CLEAN I	NC.
Project Lo	cation: 10	630 PAI	RK STRE	ЕТ			City: AL	.MEDA		ī		Site #: (	GOOD C	HEVR	OLET		Date: 3	<u>, [le</u> ] 2	01 <u>Z</u>	(71) Page	4) 734-913) e <u>  76</u> of <u>-</u>	29
Client: B	JESTAD								Operator	(s): 1	ick											
										OBSE	RVATI	ON W	/ELLS									
WELL	MIA	1-1	Milel	3	DPE-	ы N	VP-1		VP-2	-	VP-3	)										
SCREEN								· · · · · ·	1													
DTW (ft)	Vacuum		Vacuum	DTW/	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum		Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW
1 III IG	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H₂O	(ft)
3/16		4																				
0001	0.20		0.20		0.35	10.84	0.20		0,20		0.36											
0800	0.20		0.20		0.35	10.8	0.25		0.20		0,40											
1200	0.20-	-	0.25		0.40	10,82	0.20		0.15		0.45											
1600	0.20		0,20		0,30	10,81	0.25		0,20		0.35											
2000	0.20		0.25		0.35	10.83	0.25		0.25		0.40											
3/17																						
0001	0.20		0,30		0.30	10,84	0.25		0.25		0.35											
0800	0.25		0.25		0.35	10.85	0.25		0.20		0.40											
1200	0.25		0.30		0,40	10.87	0,20		0.20		0,40											
1600	0.20		0.30		0,40	10.86	0,25		0.25		0.45											
2000	0.25		0.25		0.35	10.89	0.20		0.20		0.40											
3/18																						
0001	0.25		0.30	1	0.35	10,87	0.20		0.25		0.40											
0800	0.20		0.30		0,40	10.89	0.20		0.25		0.45											
1200	0.25		0.25		0,46	10.92	0.25		0.25		0.45											
1600	0.25		0.30		0.35	10.95	0.25		0.20		0.40					2	ia -					
2000	0.25		0.30		0.35	10.97	0.25		0.25		0.40											
3/19																						
0001	0.20		0.35		0.4D	10.95	0.20		0.25		0,45											
0800	0.20		0.30		0.40	10,98	0.25		0.25		0,45											
Comme	nts:															- <u> </u>				-		

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			HIG	SH V	ACUU	M		SVE	or	Х	DPE		FIELD	DA	TA SH	EET				CAL		NC.
Project Lo	cation: 16	530 PA		ET			City: AL	.MEDA	i			Site #: (	GOOD C	HEVR	OLET		Date: 3	1 <b>9</b> 12	01 <u>Z</u>	Page	e <u>186</u> of _(	29
Client: B	JESTAD								Operator (	(s): N	it											
										OBSE	RVATI	ON W	ELLS									
WELL	MW-		MW-	3	DPE	3	VP-1		VP-2		VP-3	)										
SCREEN									;													
DTW (ft)	24	INTIAL	Magyum	DTM	Vooiuum	DTW	Vacuumi	DTM	Vacuum		Vacuum	DTW/	Vacuum	DTW	Vacuum	שדת	Vacuum	WTO	Vacuum	στw	Vacuum	DTW
Time	"H <sub>2</sub> O	(ft)	vacuum "H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H₂O	(ft)
3/19		и																				
1200	0.20		0.30		0.36	11.00	0.25		0.26		0,40											
1600	0.25		0.34		0.36	11.03	0.25		0.30		0.45											
2000	0,20	-	0.30		0.35	11.04	0.20		0.25		0.45											
3/20	,																					
0001	0.25		0.35		0.30	11.09	0.20		0.25		0.40											
0800	0.25		0.35		0.35	11.08	0,25		0.30		0.40								ļ			
1200	orh		0.35		0.35	11.07	0.26		0.24		0.45											
1600	0.20		0,40		0,40	11.10	0,20		0.30		0.45											
2000	0.25		0.35		6.35	11.13	0.25		0.30		0,40											
3/21																						
0001	0.20		0.40		0.40	11.15	0.20		0.30		0.45						<u> </u>					
0800	0.25		0.35		0.40	11.21	0,25	1	6.25		0.40	-										
1200	0.25		0.35		0,40	11.21	0.20		0.30		0.40						-				L	
1600	0.25		0.40		0.35	11.24	0.25		0.25		0.34											
2000	0.25		0,40	1	0.35	11.27	0.20		0.30		0.35											
3/22	7																n)					
10001	0.25		0.60		0.15	11.29	0.15		0.90		0.35											
0800	0.20		0.70		0.15	11.31	0.75		0.95		0.35											
1200	0.26		0.15		0.10	11.30	0.85		0.90		0.35											
1600	0.20		0.75		0.10	11,32	0.90		1.05		0.35											

	HIGH VACUUN								SVE	or [	X	DPE		FIELD	DA	TA SH	IEET				CAL	CLEAN I	NC.
I	Project Location: 1630 PARK STREET							City: AL	.MEDA	,	.)-		Site #: (	GOOD C	HEVR	OLET		Date: 🔰	122/2	٥1 <u>ک</u>	(714 Page	) 734-913 = 197 of _	29
0	Client: Bl	JESTAD						<u></u>		Operator (	(s): <u>N</u> L	<u>er</u>											
			_								OBSE	RVATI	ON W	/ELLS									
•	WELL	MW-1		MW-	3	DRE-	3	VP-1		VP-Z	,	UP-3											
1	SCREEN	<del></del>					====			- 24- 		· · · · · · · · · · · · · · · · · · ·											
Г	DTW (ft) Time	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW
		"H <sub>2</sub> O	(ft)	"H₂O	(ft)	"H₂O	(ft)	"H₂O	(ft)	"H₂O	(ft)	"H₂O	(ft)	"H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H₂O	(ft)
ł	3/22		•																				
	2000	0.20		0.80		0.10	11.37	0.90		110		0.30											
[	3/23																						
[	9001	0.25-	-	0.95		0.10	11.35	0.94		1.10		0.35											
*[	0200	0,20		0,90		0.10	11.36	0,90		1.15		0.35						L					
	1200	0.20		0.95		0.10	11.37	0,95		1.15		0.40											
	1600	0,25	r	0.95		0.10	11.35	0.90		1.20		0.35				L							
	2000	0.25		110		0,10	11.36	0.90		1,20		0.40			L								
	3/24													I		ļ							
	00001	0.20		1.05		0.10	11.37	0.95		1.25		040						<u> </u>					
	0800	0.25		1110		0.05	11,39	0.95		1.25		0,40		<u> </u>				,					
	1200	0.25		1.05		0.10	11.35	0,90		1.25		0.45											
	1600	0.25		1.05		0,10	11.37	0.90		1.20		0,40											
	2000	0.30		1.10		6110	11.35	0.95		1:20		0.40											
	3/25																			ļ			
	0001	6.30		110		0.05	11.34	0.90		1.25		0.35											
	0800	0,30		1.05		0.05	11.39	0.90		1.30		0.35											
	1200	0.35		1.05		0.05	11.41	0.95		1.30		0.40											
	1600	0,30		1.10		0.10	11.42	0.90		1.35		0.40											
	2000	0.35		1.10		0110	11.40	0.90		1.30		0.35											

			HIC	SH V	ACUU	M		SVE	or	Х	DPE		FIELD	) DA	TA SH	EET				CAL	CLEAN I	NC.
Project Lo	cation: 16	530 PAI	RK STRE	ET			City: AL	.Meda	1			Site #:	GOOD C	HEVR	OLET		Date: 3	1264 20	012	(71) Page	i) 734-9137 ∋ <u>109</u> of _	29
Client: Bl	JESTAD						Operator (	(s): <u>N</u>	UCK_													
										OBSE	RVATI	ON W	<b>ELLS</b>									
WELL	MW	-1	MW	-3	DRE	-3	VP-1		VP-Z	2	VP-3	5						i				
SCREEN		-							1													
DTW (ft)	r																			;		
Time	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H₂O	(ft)	Vacuum∕ "H₂O	DTW (ft)	Vacuum "H <sub>2</sub> O	(ft)	Vacuum "H <sub>2</sub> O	(ft)	Vacuum "H <sub>2</sub> O	(ft)	Vacuum "H₂O	(ft)	Vacuum "H₂O	(ft)	Vacuum "H <sub>2</sub> O	OTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)
3/2Le		-1													-							
0001	0.35		1.10		0.10	11.41	0,90		1.30		0,35											
0800	0.30		1.10		0.05	11.43	0,90		1.30		0,30											
1200	0.35-	-	1.05		0.10	11.47	0.95		1.35		0,35											
1600	030		1.05		0.10	11.45	0.90		1.35		940											
2000	0.35		1.10		0.05	11.43	0.95		1.30		0,40											
3/27										L	<u> </u>											
0001	0.35		1,10		0.05	11.44	0.95		1.35		0.35											
0800	0.35		1.05		010	11.49	0.95		1.35		0.40											
1200	0.30		1.10		0.10	11.51	0.90		1.30		0.35					L						
1600	0,30		1.10		0.05	11.53	0.95		1.30		0,35											<u> </u>
2000	0.35		1.05		0.10	11.51	090		1.35		0,40						τ.					<u> </u>
3/23																	İ					
0001	0.30		1.05		0.05	11.55	0.95		1.30		0.35	ļ				8	12					
Ra	0.35		1.05		0.05	11.53	090		1.30		0,35					3	S					
1200	0.35		1.10		0,05	11.54	0.90		1.35		0.35					<u> </u>	2					
1600	0,35		1.05		0.05	11.55	0.95		1.30		0.30						İ					
2000	0:35		1.10		0,10	1157	090		1.35		0.35											
3/29																						
0001	0.30		1.05		0.05	11.54	0.95		1.30		0.35											
0800	0.35		110		010	11.55	090		1.30	<u> </u>	0:30											

				HIC	SH V	ACUU	M		SVE	or	х	DPE		FIELD	) DA	TA SH	EET				CAL	CLEAN I	NC.
F	Project Lo Client: Bl	cation: 10 JESTAD	630 PAI	rk stre	ET			City: AL	.MEDA	Operator (	s): N	TCK	Site #: (	GOOD C	HEVR	OLET		Date:	1 29/2	01 <u>Z</u>	(71) Page	1) 734-9137 3 <u>UB</u> of C	29
											OBSE	RVATI	ON W	/ELLS									
١	WELL	Mml-	-1	MW	-3	DPE-	3	VP-1		VP-Z		C-9U	•										
5	SCREEN																				·		
ſ	Time	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum <sup>;</sup> "H <sub>2</sub> O	DTW (ft)	Vacuum ″H₂O	DTW (ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)
}	3/29		4																				
	1200	0.35		1.10		0.10	11.54	0,95		1.30		0,30											
[	1600	0.30		1.05		0.10	11.53	0.95		1.30		0,30											
	ra	0.35-		1.10		0.10	11.55	0.95		1.70		0,30											
	3/30							0.0														┟───┤	
	$\infty_1$	0:35		1.05		0.10	11.57	0,90		1.30		0.35							<u> </u>			<b>  </b>	
	0800	0.30		1.05		0,10	11.58	0,93		1.30		0.30							 				
¥	1200	0.30		1.05		0.10	11.56	090		1:50		0.50					<u> </u>				<u></u>		
	1600	0.30	ļ	1.10		0.10	11.59	0.95		1.95		0,30											
}	2000	0.30		1.05		0.15	11.121	0.40		1.20		0,24											
	3/31	270						080		1.25						<u> </u>							
	0001	0175		1.10		0,10	11.60	000		1.25													
	0000	0.77		1.07		0,00	1.1.7	0.17		1.26		0.40											
	1000	0.00		1.05		205	1.1.2	Dak		1.30		040											
	2600	0,70		1.10		0.10	11.109	0.90		1.35		0.35											
	1/01	UPIC					11.02								· · · ·								
ľ	papl	0.35		1.10		0,10	11.71	0,95		1.35		0.35				1		1					
ľ	0800	0.40		1.10		0.15	11.75	090		1.40		0,40											
	1200	0,40		1.06		0.10	11.77	0.95		1.35		0,35											
	1600	0.35	*	1.10		0.15	11.78	0.90		1.40		0.40											

				HIC	GH V	ACUU	M		SVE	or	X	DPE		FIELD	D DA	TA SH	IEET				CAL	CLEAN I	NC.
F	roject Lo lient: Bl	cation: 1	630 PAI	RK STRE	ET			City: AL	.MEDA	Operator (	s): N	TUK	Site #:	GOOD C	HEVR	OLET		Date: <u>4</u>	1 <b>0 </b> 12	01 <u>Z</u>	(71) Page	1) 734-913 22Bof <u>2</u>	29
											OBSE	ERVATI	ON W	/ELLS									
V	VELL	MW	-1	MW	-3	DPE	3	VP-1		VP-2		VP-3	5										
<u>[</u>	TW (ft)																						
	Time	Vacuum "H₂O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H₂O	DTW (ft)	Vacuum ″H₂O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H₂O	DTW (ft)
ŀ	4/01		•																				
	2000	0.35		1.15		0.10	<u>11:81</u>	0,90		1.35		0,40											
	4/02						<u>.</u>																
	) <b>20</b> 1	0.40-	-	1.10	L	0,10	11.83	0,90		1,40		0.40								<b> </b>			<b> </b>
	0800	0,40		1.15		0,10	11.89	0.90		1.40		0:45		ļ				<b> </b>					
	200	0.35		1.10		0,15	11.90	0.95		1.40		0,40						<u> </u>		ļ			<b> </b>
	1600	0.35		1.15		0.10	11.93	0,90		1.35		0,45											
	2000	0.40		1.10		0,15	11.95	0.95		1.40		0.45		ļ		<u> </u>		<u> </u>					<b> </b>
	4/03																						
	ເໝ	0.40		1.10		0.10	11.94	0.90		1.45		0.40											
	0800	0.45		1.15		0.15	11.99	0.95		1.40		0.45											
ſ	200	0.40		1,10		0,15	12.01	0.90		1.40		0.40											
Ī	1600	0.40		1.15		0.10	12.05	0.95		1.45		0.40											
	2000	0.35		1.15		0.15	12.09	0.90		1.40		0.45											
Ī	4/04			-																			
ľ	0001	0.40		1.15		0,10	12.14	0,96		1.45		040											
ľ	0800	0.45		1,10		0.10	12.21	1.00		1.40		0,40								T			
A	1200	0.40		1.15		0.15	1225	1.00		1.45		0.45											
۴	1600	0,40		1115		0.10	12.21	1.00		1,40		0.45											
ľ	1000	0,40		1.16		0.15	12.29	0,95		1.45		0.45											
ſ																							

(If $(1, 2) = 1$ <t< th=""><th></th><th></th><th></th><th>HIC</th><th>GH V</th><th>ACUU</th><th>M</th><th></th><th>SVE</th><th>or</th><th>x</th><th>DPE</th><th></th><th>FIELD</th><th>D DA</th><th>TA SH</th><th>IEET</th><th></th><th></th><th></th><th>CAL</th><th>.CLEAN I</th><th>INC.</th></t<>				HIC	GH V	ACUU	M		SVE	or	x	DPE		FIELD	D DA	TA SH	IEET				CAL	.CLEAN I	INC.
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Project Lo Client: Bl	ocation: 10 UESTAD	630 PAI	RK STRE	ET			City: Al	.MEDA	Operator	(s): <u></u>	Ick	Site #:	GOOD C	HEVR	OLET		Date: 4	1512	01	(714 Page	4) 734-913 ∋ <u>23</u> of <u>(</u>	<u>29</u>
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $											OBSE	ERVATI	ON W	<b>VELLS</b>									
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	WELL	MW	-1	MW	-3	DPE-	-3	VP-1		VP-Z	2	VP-3	5										
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	SCREEN																					<del>.</del>	=-
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	DTW (ft)	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	WTG	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	11110	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H₂O	(ft)	"H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H₂O	(ft)	"H <sub>2</sub> O	(ft)
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	415																						
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	0001	0.45		1.15		0,15	12.31	1.10		1,40		0,40											
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	0800	0,40		1.10		010	12.37	1.00		1,40		0,45						<b></b>		<u> </u>	L		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1700	0.45-	-	1.10		0110	1241	1.05		1.40		040									<b> </b>		ļ
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1600	0.45		1,10		0.15	12:40	1.10		1,45		0,46								<u> </u>			ļ
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	2000	0.45	<u> </u>	410		0.15	13.42	1.05		1.45	ļ	0,40				ļ	ļ	L		<u> </u>	<u> </u>		ļ
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	4/6					<b></b>		<b></b>										<u> </u>			<u> </u>	ļ'	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	000	0.40		1.15		0,10	12.41	1.00		1.45		0.45		ļ				<u> </u>		ļ	<b></b>	<b> </b>	<b> </b>
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	6800	0.45		1.10		0.15	12.44	0.95		1.45		OHO		<b> </b>				<u> </u>			<b></b>	ļ	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1200	0,30		0.70		0.45	12.51	1.15		1.20		0,55		<b>_</b>		ļ		<u> </u>			<b> </b>		<b> </b>
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1600	0,35	1	0.50		0.55	12.57	1.20	<u> </u>	1.15		0.70				ļ				<b> </b>			ļ
$\frac{47}{000}$	2000	0.30		0.20		0.75	12,51	1.20		1.15		0.85		<u> </u>						<b> </b>	—		ļ
0.75  $ 0.05 $ $ 0.90 $ $ 2.54 $ $ .35 $ $ 1.10 $ $ 0.90 $	4/7		<u> </u>				<u> </u>	L		<u> </u>									ļ	<u> </u>	<u> </u>		
	0001	0.35	<u> </u>	0.05		0,90	12.54	1.35	ļ	1.10		0.90		<b> </b>		<u> </u>						<b></b>	<b> </b>
08000,35 0.00 1.10 12.61 1.35 1.10 0.90	0800	0.35	<u> </u>	0.00		1.10	12.61	1.35		1.10		0.90				<u> </u>				<u> </u>	<b> </b>	<b> </b>	ļ
1200 0.35 0.00 1.24 12/03 1.30 1.10 0.90	1200	0.35	ļ	0.00		1.25	12,63	1.30		1.10	1	0,90		<u> </u>			ļ				<b> </b>	<b>_</b>	
1600 0.40 0.00 1.40 12.71 1.35 1.05 0.90	1600	0.40	<b> </b>	0.00		1.40	12.71	1.35		1.05	<u> </u>	0,90		<u> </u>		<u> </u>		<u> </u>		ļ	<u> </u>	<b> </b>	<b> </b>
2000 0.40 0.00 1.45 12.73 1.30 1.05 0.90	2000	0.40	<u> </u>	0.00		1.45	12.73	1.30		1,05	<u> </u>	090		1		<u> </u>							
$\left  \begin{array}{cccccccccccccccccccccccccccccccccccc$											<u> </u>										┨────		╂
								<b> </b>											<u> </u>		+	┼───	<u> </u>

			HIG	SH V.	ACUU	M		SVE	or	x	DPE		FIELD	D DA	TA SH	EET				CAL	CLEAN II	NC.
Project Lo Client: B	ocation: 16 JESTAD	30 PAI	RK STRE	ЕТ			City: Al	.MEDA	Operator	(s): <u> </u>	UK	Site #: (	GOOD C	HEVR	OLET		Date: <u>4</u>	<u>18</u> 12	01 <u>2</u>	(71- Page	24Bof 2	29
										OBSE	RVATI	ON W	/ELLS									
WELL	MK-	1	MW-	.3	DPE-	3	VP-1		VP-Z	P	VP-3	5										
SCREEN																						
DTW (ft)	Vacuum		Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW
Time	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H₂O	(ft)	"H₂Ó	(ft)	"H <sub>2</sub> O	(ft)	"H₂O	(ft)	"H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H₂O	(ft)	"H <sub>2</sub> O	(ft)
4/8																						
0001	0.45		0.00		1,45	12,75	1.30		1.05		0,90											
0800	0.40		0.00		1,45	12.74	1.30		1.05		095											
1200	0,45	-	0.00		1.50	12.77	1,30		1.10		0.90											
1600	6.50		0.00		1.50	12.21	1.35		1.10		0.95											
2000	0,50		0,00		1.50	12.73	1,30		1.05		0,90								<b></b>			
4/9						ļ					ļ								<u> </u>			
6001	Dileo		0.00		1.50	1274	1,35		1.05	<b> </b>	0.90						[				<b>  </b>	
0800	0.70		0,00		1.50	1273	1.30		1.05	<u> </u>	0,90				ļ							l
1600	0.75		0,00		1.50	12.79	1.30		1.10		0,90				<b> </b>							
2000	0,80		0.00		1.55	12.77	1.35		1,10		0.90						<u> </u>		<b> </b>		<b> </b>	
4/10						 			ļ						<b></b>		ļ					
0001	9.80		0.00		1.50	12.81	1.30		1.05		0,95						<u> </u>		<b> </b>			
0700	0.75		0,00	·	1.50	12.84	1.30		1.05	ļ	0,95						<u> </u>		ļ			
1200	0.90	<u> </u>	0,00		1.55	12.81	1.35		1.10		0.95								<b>.</b>		i	
1600	6.75		0,00		1.50	12,85	1.30		1.10	ļ	0.90											
2000	0.80		0.00		1.50	1287	1.36		1.05	<u>-</u> -	090						ļ					
4/11																	<b></b>					
0001	0180		0.00		1.55	1289	1.30		1.10		0,95						L					
0800	0.90		0,00		1.50	12.93	135		1.05		0,90	<u> </u>										
1200	080		0,00		1.55	12,91	1.40		1,10		0.95	L										

	HIGH VACUUN							SVE	or	Х	DPE		FIELD	) DA	TA SH	EET				CAL	CLEAN I	NC.
Project Lo	cation: 16	530 PAF		ET			City: AL	.MEDA		.		Site #: (	GOOD C	HEVR	OLET		Date: <u>4</u>	1212	01 <u>Z</u>	(71) Page	e <b>255</b> of <u>1</u>	29
Client: Bl	JESTAD								Operator	(s): <u>H</u>	TUR											
										OBSE	RVATI	ON W	ELLS									
WELL	MW	-1	Mul-	3	DRE-	3	VP-1		VP-Z		VP-3											
SCREEN									2													
DTW (ft)	Maguum	DTM	Voouum	DTM	Voouum	DTW	Vacuum		Vecuum	DTW	Vacuum		Vacuum	NTO	Vacuum	DTM/	Vacuum		Vacuum		Vacuum	
TING	"H <sub>2</sub> O	(ft)	vacuum "H₂Ö	(ft)	"H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)
4/12		4																				
0001	0.80		0.00		1.55	12.97	1.40		1.10		0,95											
OPat	0.85		0.06		1.55	12.93	1.40		1.05		0.95	<u></u>										
1200	0.80	-	0.00		1.60	12.94	1.45		1.05		0.95											
1600	0.80		0,00		1.60	12,93	1.50		1.05		6.90											
2000	0.80		6,00		1.55	12.91	1.45		1.10		0.96											L
4/13																						
0001	0.85		0.00		1. leD	12,94	1.45		1.05	ļ	0.90											
0800	0.80		0,00		156	13.01	1.50		1.10		0,95									· ·		
1200	050		0.25		1.15	13.04	1.45		1.30		0.80											<u> </u>
1600	0,65		0.35		0,70	13.07	1.45		1.35		0.75											
1000	0.60		0.40		0,50	1305	1.45		1.45		0,65											
4/14										L				L								1
0001	0,60		0.55		<u> 240</u>	13:01	1.45		1.50		0.50			<u> </u>								
0800	0,65		0.85		020	13.03	1.50		1.45	ļ	0,55											
1200	OileD		0.90		0.25	13.05	1.50		1.45		0.50											
1600	Orlen		0.95		a20	13.07	1.55		1.45		0.50			<u> </u>								
2000	0.65		0.95		0.20	13.04	1,50		1145	ļ	0,50				<u> </u>							
			<u> </u>		<u> </u>				<u> </u>	<b> </b>			L									
	L										1		<b> </b>			ļ			ļ		ļ'	L
L																			<u> </u>			

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	HIGH VACUUN							SVE	or	Х	DPE		FIELD	DA	TA SH	EET				CAL	.CLEAN II	NC.
Project Lo	ocation: 1630 PARK STREET						City: AL	.MEDA	1	. 1	- 1	Site #:	GOOD C	HEVR	OLET		Date: <u>4</u>	1/5/2	01 <u>Z</u>	Page	a <u>20</u> of <u>6</u>	29
Client: BL	JESTAD								Operator	(s): <u>N</u>	ice_											1
										OBSE	RVATI	ON W	/ELLS									
WELL	Mhl-	-1	MW	3	DPE-	3	VP-		VP-Z		VP-3	·									L	
SCREEN								_														
DTW (ft) Time	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW	Vacuum	DTW
	"H <sub>2</sub> O	(ft)	"H₂O	(ft)	"H₂O	(ft)	"H₂O	(ft)	"H₂O	(ft)	"H₂O	(ft)	"H₂O	(ft)	"H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(11)
4/15		а																				
0001	0.65		0,95		0.25	13.07	1.55		1.45		0,50											
0800	0.65		0,90		0,20	13,13	1,50		1.50	 	0.55										<b> </b>	<b> </b>
2000	0.65	-	0.90		0.25	13.15	1.45		1.50		0,55	<u> </u>			<b></b>						<b> </b>	
4/16															<b> </b>				ļ			
0001	0.60		0.95		0.20	13.21	1.50		1.45	ļ	0.50				<b> </b>						<b> </b>	
0800	0.65		0,95		0.25	13.24	1,50		1.45	ļ	0.55		<u> </u>									
1200	6.60	<u> </u>	0.90		0.25	13.21	1.55		1.45	<u> </u>	0.94										<b> </b>	
1600	0,60	ļ	0.95	<u> </u>	0.20	13.24	1.40		1.45		0.60										┢────	
2000	0,45		0.90		0.25	13.27	1.55		1.45	<u> </u>	0.50											┣───┦
4/17	<b></b>	<u> </u>		ļ						<u> </u>		<b> </b>			<b> </b>							<b> </b>
0001	0.60		0.95	<u> </u>	0.25	13.29	1.50		1.45		0.60						╂			╂		
0300	Out		0,90		0.25	13.34	1.99		1.95		0.45	<u> </u>						<u> </u>			+	
1200	Cile O		0.95		0.25	13.31	1.55		1.45		0.90				┨────						┢╌┈┈	<u> </u>
1600	069		0.40	┨────	0.25	13:56	1.50		1.45		0.97										┼──	
1000	0.60		0.45		0.20	13.21	1.50		1,45	+	0.55										╉────	
4/18		<b> </b>	1000			1031		<u>-</u>		+	1.60			<u>                                      </u>	+				+		╂───	<del> </del>
	0.65	<b> </b>	075		0,10	13121	1.50	<u> </u>	1.45		0.90											
0800	0.00		0.96		0.09	12120	1.30		1.90		0.67				+						╂───	┼───
11200	0.65		0,70		020	17.30	1.50	<b> </b>	1.49		0.40							<del> </del>	+		+	
	<u> </u>			<u> </u>	1				<u> </u>	1		<u> </u>	<u> </u>	L	J		1	L	<u> </u>	<u> </u>		<u> </u>

			HIC	SH V	ACUU	M		SVE	or	Х	DPE		FIEL	D DA	TA SH	IEET				CAI		NC.
Project Lo	ocation: 16	30 PAI	RK STRE	ET			City: AL	.MEDA		. ا.		Site #:	GOOD C	HEVR	OLET		Date: 4	1 <b>8</b> 12	01 <u>Z</u>	(71 Pag	$\frac{1}{210} \frac{734-913}{6}$ of $\frac{1}{2}$	29
Client: B	UESTAD	1 <u>81</u>							Operator	(s): <u>L</u> П	, cr				•							
										OBSE		ON M	/ELLS			<u></u>	r				<b></b> _	
WELL	Mk-	1	MW	-2_	DPE-	3	VP-1		VP-Z	·	VP-3	<u>&gt;</u>									<b> </b>	
SCREEN																			· · · · · · · · · · · ·			
Time	Vacuum	DTW (ft)	Vacuum	DTW (ft)	Vacuum "H-O	DTW (ft)	Vacuum <sup>-</sup> "H <sub>2</sub> O	DTW (ft)	Vacuum "H₀O	DTW (ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum ″H₂O	DTW (ft)
	1120	(11)	1.20	(				()					-									
4/18		,																				
1605	0,65		0,95		0.25	13,31	1.50		1.45		0.50								<b></b>			
2000	0,100		0.95		0.20	13.34	1.50		1.40		0.50				ļ		<b> </b>		<b> </b>			
4/19	, n	-	<b> </b>								↓						<b> </b>				<b> </b>	
0001	0.65		0.95		0,25	13.32	1.50		1.40		0,50											
0800	0,65		0.95		0.20	13.29	1.50		1.40		0,50								<u> </u>		<b> </b>	
1200	0.60		0.90		0.25	13.31	1.50		1.40		0.50								<u> </u>		┨───┤	
1600	260		0,90		0.20	13.33	1.55		1.40		0.50											
7000	0,65		0,96		0.25	1334	1.50		1,45		0.50						<u> </u>				<u> </u>	
4/20									1.1.5						<u> </u>							
0000	0,60		0,90		0.20	13,32	1.50		1,45		0.50	<b> </b>					: :		──		'	
0800	0.60		0,95		0,20	13,34	1.55		1.40		0,50						1					<b> </b>
1200	0,65		0.95		0.20	13.22	1.50		1,40	<u> </u>	0.50								──			
1100	0.65		0,90		0.25	13,30	1.55		1.45		0.50			<u> </u>			<u> </u>		───			
2000	<u>a66</u>		0.95		0,20	13.32	1.55		1.45		0.50			<u>                                      </u>			<u> </u>		—		<u> </u>	
4/21					007	10.00					05						<u> </u>		╂───		<u> </u>	
0001	0,60		0.95		0:19	13:37	1.55		1.40		0.40							<u> </u>			<u> </u>	<b> </b>
000	0.65		0.95		0,20	13.31	1.50		1.45		0,50								┼───			──
1200	065		0.95		0.05	12.24	1.55	<b> </b>	145	<b> </b>	0,90						<b> </b>		╂───			<u> </u>
1600	0.60		0.90		0.20	12.00	1.50		1140	<u> </u>	0.50								+		<u> </u>	
2000	0.60		0.96		0.20	13:30	1.55		11.40	<u> </u>	10150	L			<u> </u>	I	<u> </u>		<u> </u>		L	]

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			HIG	SH V	ACUU	м		SVE	or	X	DPE		FIELD	D DA	TA SH	EET				CAL		NC.
Project Lo	cation: 16	530 PA		ET			City: AL	.MEDA	N N	١		Site #: (	GOOD C	HEVR	OLET		Date: 4	1 <b>22</b> 12	012	(714 Page	) 734-9137 9 <u>288</u> of <u>c</u>	29
Client: B	UESTAD								Operator	(s): <u>N</u>	UL .					_						
										OBSE	RVAT	ON W	ELLS									]
WELL	MW	-1	MW	-2	DPE	3	VP-1		VP-Z	7	VP-3	>										
SCREEN	<u> .</u>														•••••••			1804				
Time	Vacuum	DTW (ft)	Vacuum "H-O	DTW (ff)	Vacuum "H <sub>2</sub> O	DTW (ft)	Vacuum "H <sub>e</sub> O	DTW (ft)	Vacuum "H₂O	DTW (ft)	Vacuum ″H₂O	DTW (fl)	Vacuum "H₂O	DTW (ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H₀O	DTW (ft)	Vacuum "H₂O	DTW (ft)	Vacuum "H₂O	DTW (ft)
	1120	(14)		(,									-	.,								
4/22			0.00			.0.21			1.1.0		2.60				-							
000	0,60		090	·	0:20	12,21	(.50		1.45		0150											
0800	0,60		0,75		0.25	12 21	1.55		1.49		0177											
1200	0.60		0.90		0.65	17171	1170		1.46		0.77											
1600	0.105		60.95		0.20	17120	1.50		1.42		6 50							<u> </u>				
1/200 U/23	0.00		0.90		0167	10121	1.70		1175		0.50											
0001	0.105		0.95		0.20	13.30	1.55		1.40		0.56						· · ·	1				
0800	0.65		0.90		0.25	13,32	1.55		1.40		0.50							-				
1200	0.60		0.90		0.20	13:31	1.35		1.30		0.45											
1600	6.60		0.85		0.15	13.34	1.30		1.20		0.40											
2000	0,65	<u> </u>	0.90		0.15	1332	1.25		1.10	ļ	0.40		L	ļ			ļ					
4/24															ļ				<u> </u>		<b> </b>	
0001	0,60		0.85		0.5	13,29	1.25		1,00	ļ	0.40					 						
0800	0.100		0.85		0.15	13.27	1.15		1.05	ļ	0.35		[									
1200	0.125		0.85		0,15	13.21	1.10		1.10		0.40										<b> </b>	
1600	0:65		0.80		0.15	13124	1.10		1.05		0.35			<u> </u>								
2000	0,60		0.87		10,15	15:40	1.10		1.05		0.95											
4125	055		Mer		0.15	13.17	1.10		1.10	+	040										┟───┤	
1001	0.55	<u> </u>	6.80		0.5	13.11	1.10		1.05		0,40										<b> </b>	
Comme	nts:	L	10.00			L						L	J	<u></u>	J			L	L		A.,	

	HIGH VACUUN							SVE	or	x	DPE		FIELD	D DA	TA SH	IEET				<b>CAL</b> (71	.CLEAN II	NC.
Project Lo	ocation: 1	630 PAI	RK STRE	ET			City: AL	.MEDA	•	. h	(r)1	Site #:	GOOD C	HEVR	OLET	2	Date: <u>4</u>	12512	01 <u>2</u>	Page	⇒ <u>298</u> of <u>&lt;</u>	29
Client: B	UESTAD								Operator (	(s): <u>N</u>	<u>u</u>		<u></u>			_						
										OBSE	RVATI	<u>ON W</u>	/ELLS									
WELL	Mhl-	1	MW-	2	DPE	3	VP-1		VP-2		VP-3										<b></b>	
SCREEN	·							فسيد					-				<u> </u>	1				
DTW (ft)	-			OTIAL		D77344		DTM	Vasuum	DTM	Maguum		Vacuum	DTW	Vacuum		Vacuum		Vacuum		Vacuum	
Time	Vacuum "H₂O	(ft)	vacuum "H₂O	(ft)	"H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H₂O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H <sub>2</sub> O	(ft)	"H₂O	(ft)
4/25		-																				
1200	O.LeD		0.85		0.15	13.09	1.10		1.05		0.35											
2000	0.65		0.85		010	13.13	1.10		0.95		0.40	. <u></u>					<u> </u>					
4/210	1-8-	-										L										
0001	0.60		0.80		0.15	13.11	1.05		0.95		0.35					 						
0800	0.55		0.00		0.15	13.07	1.05		0,90		0.40				<u> </u>				<u> </u>		<b> </b>	
1200	0,55		0.85		0.10	13.01	1.10		1.00		0.40						[	ļ		<b> </b>		
1600	0.60		0.20		0.10	13.05	1.05		0.95		0.35									<b> </b>	<b> </b>	
4/27									ļ											<b> </b>		
0001	0.55		0.85		0,15	13.04	1,10		0.95		0,40						<u> </u>			┟	·	
0800	0.60		0.90		a15	13.03	1.05		0,90		0.40				ļ		ļ	<u> </u>		<b> </b>		
4/28													<b></b>		ļ		ļ	 	<u> </u>	<b></b>		ļ
0045	0.45		0.60		0.05	1278	0.85		0.75	ļ	0.20						<u> </u>		<u> </u>	<b> </b>		
0400	0.55		0.80		0.15	12.81	0,95		0.90	ļ	0.35						·			<b> </b>		
									ļ								<b></b>			ļ		
			<u> </u>		ļ				ļ		<b></b>			<u> </u>	<u> </u>		<u> </u>		<b></b>	<b></b>		Í
									<u> </u>				ļ					ļ				
	L									ļ				<u> </u>			<b></b>	ļ	<b> </b>	<b> </b>		<u> </u>
	<u> </u>		ļ							[					ļ				<b>_</b>	<u> </u>	ļ	
			<u> </u>		ļ				ļ		<u> </u>		<b></b>				1		<u> </u>	<b> </b>	<b> </b>	<u> </u>
	<u> </u>	<u> </u>	<u> </u>		<u> </u>				<u> </u>						]							ļ

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# APPENDIX E

LABORATORY ANALYTIC REPORTS POST-INTERIM REMEDIATION GROUNDWATER AND SOIL VAPOR



McCampbell Analytical, Inc. "When Quality Counts" 1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com

# **Analytical Report**

AEI Consultants	Client Project ID: #298931; FSI	Date Sampled: 05/18/12
2500 Camino Diablo. Ste. #200		Date Received: 05/18/12
	Client Contact: Robert Robitaille	Date Reported: 05/25/12
Walnut Creek, CA 94597	Client P.O.: #WC083593	Date Completed: 05/25/12

#### WorkOrder: 1205551

May 25, 2012

#### Dear Robert:

Enclosed within are:

- 1) The results of the 11 analyzed samples from your project: #298931; FSI,
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

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.

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	McCA	MPBEL	L ANA	LY	TICA	LI	VC.											C	HA	IN	0	FC	CUS	ST(	DD	ΥI	RE	CO	R	D			
	1538 W	Villow Pass	Road, P	ittsb	urg, C	1 94	565							TI	UR	N.	ARC	U	ND '	TH	ME		Ę	3	[								k.
Telephone: (9	25) 252-9262						F	ax:	(92	5) 2	52-	9269		FD	FE	200	uirod'	2	N V			0	RUS	SH	24 Dec	HR	42	48 H	R	72	R	5 I	A
Report To: Ro	bert Robitai	lle		Bill	To: AE		nsul	tan	ts				+	ED	r r	veq	incu	A	nalve	sis I	Reau	est	1	Dr	Req	uire	T	Oth	ier	-4	Con	imen	is.
Company: Al	EI Consultan	ts, 2500 Ca	amino Di	ablo	, Walni	t Ci	reek	, CA	4 94	597	2		t											-						+	Con		
PO# WC08359	93	,	Global II	D: T	060010	065	5								(dn-t																		
				E-M	ail: rro	oitail	le@a	aeico	onsu	ltatn	is.co	m			Clean																		1
Telephone: (92	25) 746-6000,	ext. 148		Fax:	(925) 7	46-6	6099								Gel															2			
AEI Project N	0. 298931			Proj	ect Nan	ne:	FSI								Silica																		
Project Locati	ion: 1630 Par	k St., Alan	neda, CA	945	01						_		_		/ m/	0B)																	
Sampler Signa	ature:	MA S	ARCC	_									4	-	015 N	826																	
	()	SAMP	LING	'n	ers	1	IAT	RE	X	PR	ESE	RVE	D	15 N	PA 80	EPA					10												
SAMPLE ID	FIELD		1.1	tainer	ntain									EPA 80	H-MO (E	TBE (																	
SAM LE ID	NAME	Date	Time	# of Con	Type Co	Water	Soil	Sludge	Other	Ice	HCL	HNO <sub>3</sub>	Ouner	TPH-G (F	IPH-D / TP4	BTEX, M																	-
MW-1	5-18-12	5-18-12	0630	4	VOA, amber L	X				x	Х		1	x	X	X			-				+		-	-				+			-
MW-2		1	0730	4	VOA, amber L	X		1 -		x	X			x	х	x																	_
MW-3			0930	4	VOA, amber I	x	-			x	X			x	x	x		-	-					-						+			_
MW-T				4	VOA,	x				x	X		-	x	x	x	6	+					-							+			
MW-5			0530	4	VOA, amber L	x	-			x	X			x	x	x		1						-						-			_
DPE-1			5700	4	VOA,	x	-	-	-	x	X			x	x	x		+	-			-	-		-					+			
DPE-2			1120	4	VOA,	x	-	-	-	x	x			x	x	x	-	+	-				+	+	1				-	+			
DPE 3			1120	4	VOA,	x	-	+		x	x			x	x	X		-	-			-	-	-	-				-	+			
DPF-4			1200	4	VOA,	x	+	+	-	v	v			v	v	v	-	+	-			+	-	+	+					+			_
NOF 6			100	4	VOA,	v	+	-			v		Ŧ,	v	v	v	-	-	-	-		-	+	+-	-				-	+			
DPG 10			100	4	amber L VOA,	N	-	-	-		N	-	Ŧ,	v		N	-	+	-	-	-	-	+	-	+				-	+			_
00010		1	0630	4	amber L. VOA,	A	-	-	-		A			A	A	A	-	-	-	-		-	-	-	-	-			-	+			_
Polinggiched Bar	^	Data	1000	P	amber L	X				X	Х		1	X	X	X																	
Xernidalsiled By:	Siga	6-18-12	1310	Rec	1100	n	U	/	2	-	6	-		10	E /r	. ]	2	6				01	DECI	DV	ATE	V	OAS	08	G	M	ETALS	от	IER
Relinquished By:	00	Date:	Time:	Rec	eived By:									G	00	DC	ONDI	TIC	N	V	-	A	PPR	OPR	IAT	E	1	×					
Relinquished By:		Date:	Time:	Rec	eived By:								1	DI	ECI	HLC	RINA	TE	DIN	LA	B		PER	SER	VEL	D IN	LAI	3					
					1																												

# McCampbell Analytical, Inc.

MW-5

DPE-1

DPE-2

DPE-3

DPE-4

DPE-6

DPE-10

DPE-11



1534 Willow Pass Rd Pittsburg, CA 94565-1701

# **CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

(925) 25	52-9262					Work	Order:	12055	551 Cl	lientCoc	le: AEL				
		WaterTrax	writeOn	✓ EDF		Excel	[	Fax	🖌 Email		HardCopy	/ 🗌 Thi	rdParty	□J-f	lag
Report to:							Bill to:				Re	equested T	AT:	5	days
Robert Robi AEI Consult 2500 Camin Walnut Cree (408) 559-760	taille ants o Diablo, Ste. #200 ek, CA 94597 00 FAX: (408) 559-7601	Email: cc: PO: ProjectNo:	rrobitaille@aei #WC083593 #298931; FSI	consultants.com			Sa AE 250 Wa Ace	ra Guer I Consu 00 Cam alnut Cru countsF	rin ultants ino Diablo, Ste. eek, CA 94597 Payable@AEICo	. #200 onsultan	Da Da ts.c	ate Recei ate Printé	ved: ed:	05/18/ 05/18/	'2012 '2012
									Requested	Tests (S	ee legend	below)			
Lab ID	Client ID		Matrix	Collection Date	Hold	1	2	3	4 5	6	7 8	9	10	11	12
1205551-001	MW-1		Water	5/18/2012 6:30		А	В	А							
1205551-002	MW-2		Water	5/18/2012 7:30		А	В								
1205551-003	MW-3		Water	5/18/2012 9:30		А	В								

5/18/2012 5:30

5/18/2012 7:00

5/18/2012 11:30

5/18/2012 6:00

5/18/2012 12:00

5/18/2012 11:00

5/18/2012 8:30

5/18/2012 10:00

3

8

#### Test Legend:

1205551-004

1205551-005

1205551-006

1205551-007

1205551-008

1205551-009

1205551-010

1205551-011

1	G-MBTEX_W	2
6		7
11		12

MBTEX-8260B_W	

Water

Water

Water

Water

Water

Water

Water

Water

PREDF REPORT	]
	]

А

А

А

А

А

А

А

А

В

В

В

В

В

В

В

В

4	
9	

5	
10	

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: Maria Venegas



# Sample Receipt Checklist

Client Name:	AEI Consultants				D	ate and	Time Received:	5/18/2012 2	:52:40 PM
Project Name:	#298931; FSI				Lo	ogIn Re	viewed by:		Maria Venegas
WorkOrder N°:	1205551	Matrix: Water			C	arrier:	Client Drop-In		
		<u>Chai</u>	in of Ըւ	ustody (C	COC) Info	rmatio	<u>n</u>		
Chain of custody	present?		Yes	✓	No				
Chain of custody	signed when relinquis	hed and received?	Yes	✓	No				
Chain of custody	agrees with sample la	abels?	Yes	✓	No				
Sample IDs note	d by Client on COC?		Yes	✓	No				
Date and Time o	f collection noted by C	lient on COC?	Yes	✓	No				
Sampler's name	noted on COC?		Yes	✓	No				
			Sample	e Receipt	Informat	tion			
Custody seals in	tact on shipping contai	iner/cooler?	Yes		No			NA 🔽	
Shipping contain	er/cooler in good cond	lition?	Yes	✓	No				
Samples in prope	er containers/bottles?		Yes	✓	No				
Sample containe	rs intact?		Yes	✓	No				
Sufficient sample	e volume for indicated	test?	Yes	✓	No				
		Sample Pres	ervatio	n and Ho	old Time (	( <u>HT) Inf</u>	ormation		
All samples recei	ived within holding tim	e?	Yes	✓	No				
Container/Temp	Blank temperature		Coole	er Temp:	1.2°C			NA	
Water - VOA vial	s have zero headspac	e / no bubbles?	Yes	✓	No	N	o VOA vials submi	tted 🗌	
Sample labels ch	necked for correct pres	servation?	Yes	✓	No [				
Metal - pH accep	table upon receipt (p⊢	I<2)?	Yes		No			NA 🗹	
Samples Receive	ed on Ice?		Yes	✓	No				
		(Ісе Тур	e: WE	TICE )	)				
* NOTE: If the "N	lo" box is checked, se	e comments below.							

Comments:

\_\_\_\_\_

\_\_\_\_\_

<u> М</u>	CCampbell Anal	lytical, Inc. unts''	1534 Willow I Toll Free Telepho http://www.mccam	v Pass Road, Pittsburg, CA 94565-1701 hone: (877) 252-9262 / Fax: (925) 252-9269 mpbell.com / E-mail: main@mccampbell.com							
AEI Consulta	nts	Client Project ID:	#298931; FSI	Date Sam	pled:	05/18/12					
2500 Camino	Diablo, Ste. #200			Date Received: 05/18/12							
2000 Culling	210010, 2001 11 200	Client Contact: R	obert Robitaille	Date Extracted 05/22/12-05/23/12							
Walnut Creek	с, CA 94597	Client P.O.: #WC083593 Date Analyzed 05/22/12-05/2									
Extraction method:	Gasoline Ra	nge (C6-C12) Vola Analytical n	nethods: SW8015Bm	Gasoline*	Work Order:	1205551					
Lab ID	Client ID	Matrix	TPH(g)		DF	% SS	Comments				
1205551-001A	MW-1	W	2600		10	95	d1				
1205551-002A	MW-2	W	140		1	#	d1				
1205551-003A	MW-3	W	75		1	#	d1,d6				
1205551-004A	MW-5	W	120		1	#	d6				
1205551-005A	DPE-1	W	540		1	#	d1				
1205551-006A	DPE-2	W	220		1	107	d1				
1205551-007A	DPE-3	W	1100		2	127	d1				
1205551-008A	DPE-4	W	ND		1	107					
1205551-009A	DPE-6	W	ND		1	#					
1205551-010A	DPE-10	W	1700		2	#	d1				
1205551-011A	DPE-11	W	930		2	#	d1				
Rep	orting Limit for DF =1;	W	50			μg/L					
ab	ove the reporting limit	S	NA			NA					

\* water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/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

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: d1) weakly modified or unmodified gasoline is significant d6) one to a few isolated non-target peaks present in the TPH(g) chromatogram

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

	Analı Lity Cour	ytical nts''	<u>, Inc.</u>		1534 Willow F Toll Free Telepho http://www.mccamp	Pass Road, Pittsburg, CA ne: (877) 252-9262 / Fax: obell.com / E-mail: main@	94565-1701 (925) 252-9269 mccampbell.co	m			
AEI Consultants		Client Pr	oject ID:	#2989	31; FSI	Date Sampled:	05/18/12				
2500 Comino Dioblo Sto #200						Date Received:	05/18/12				
2300 Camino Diabio, Ste. #200	ľ	Client Co	ontact: Ro	bert R	obitaille	Date Extracted:	05/22/12-0	)5/23/12			
Walnut Creek, CA 94597	ľ	Client P.	O.: #WC0	83593		Date Analyzed:	05/22/12-0	)5/23/12			
Extraction Method: SW5030B		MTBI Ana	E and BT	EX by	GC/MS*		Work Order:	1205551			
Lab ID	12055	51-001B	1205551	-002B	1205551-003B	1205551-004B					
Client ID	M	W-1	MW	-2	MW-3	MW-5	Reporting Limit for DF =1				
Matrix		W	W		W	W					
DF		10	1		1	1	S	W			
Compound			ug/kg	µg/L							
Benzene	2	200			5.3	ND	NA	0.5			
Ethylbenzene		93	2.9		ND	ND	NA	0.5			
Methyl-t-butyl ether (MTBE)	ND<5.0		ND		ND	ND	NA	0.5			
Toluene	:	51	2.8		ND	ND	NA	0.5			
Xylenes, Total	6	510	12		1.6	ND	NA	0.5			
		Surro	ogate Rec	overies	(%)						
%SS1:	1	19	120	1	122	121					
%SS2:	1	92	91		93	92					
Comments											
* water and vapor samples are reported in µg extracts are reported in mg/L, wipe samples i	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 xtracts are reported in mg/L, wipe samples in µg/wipe.										
ND means not detected above the reporting li	imit/metł	nod detectio	n limit; N/A	means ai	nalyte not applicable	to this analysis.					
# surrogate diluted out of range or coelutes w	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

McCampbell A "When Quality	nalytical, ty Counts''	<u>Inc.</u>	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com							
AEI Consultants	Client Pr	oject ID: #2989	31; FSI	Date Sampled:	05/18/12					
2500 Camino Diablo Sta #200				Date Received:	05/18/12					
2500 Camino Diaolo, Ste. #200	Client Co	ontact: Robert R	obitaille	Date Extracted:	05/22/12-0	5/23/12				
Walnut Creek, CA 94597	Client P.	O.: #WC083593		Date Analyzed:	05/22/12-0	5/23/12				
Extraction Method: SW5030B	MTBI	E and BTEX by	GC/MS*		Work Order:	1205551				
Lab ID	1205551-005B	1205551-006B	1205551-007B	1205551-008B						
Client ID	DPE-1	DPE-2	DPE-3	DPE-4	Reporting Limit for DF =1					
Matrix	W	W	W	W	-					
DF	2	1	3.3	1	S	W				
Compound		Conce	entration		ug/kg	µg/L				
Benzene	49	33	78	ND	NA	0.5				
Ethylbenzene	ND<1.0	ND	11	ND	NA	0.5				
Methyl-t-butyl ether (MTBE)	ND<1.0	ND	ND<1.7	ND	NA	0.5				
Toluene	ND<1.0	3.2	37	ND	NA	0.5				
Xylenes, Total	17	30 89		ND	NA	0.5				
	Surro	gate Recoveries	(%)							
%SS1:	122	118	122	120						
%SS2:	91	92	90	92						
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 lin	nit/method detection	n limit; N/A means a	nalyte not applicable	to this analysis.						
# surrogate diluted out of range or coelutes with %SS = Percent Recovery of Surrogate Standar DE = Dilution Factor	surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference. SSS = Percent Recovery of Surrogate Standard N= Dilution Feator									

	<u>Anal</u> lity Cou	<u>ytical</u> , <sub>ints''</sub>	<u>, Inc.</u>		1534 Willow F Toll Free Telephon http://www.mccamp	Pass Road, Pittsburg, CA ne: (877) 252-9262 / Fax: pbell.com / E-mail: main@	94565-1701 (925) 252-9269 mccampbell.com	m			
AEI Consultants		Client Pr	oject ID:	#2989	31; FSI	Date Sampled:	05/18/12				
2500 Camino Diablo, Ste. #200						Date Received:	05/18/12				
		Client Co	ontact: Ro	obert Ro	obitaille	Date Extracted:	05/22/12-0	)5/23/12			
Walnut Creek, CA 94597		Client P.	Client P.O.: #WC083593         Date Analyzed: 05/22/12-05/23/12								
Extraction Method: SW5030B		MTBI Ani	E and BTJ alytical Metho	<b>EX by</b> d: SW8260	GC/MS*		Work Order:	1205551			
Lab ID	12055	51-009B	1205551	-010B	1205551-011B						
Client ID	D	PE-6	DPE-	-10	DPE-11		Reporting DF	Limit for =1			
Matrix		W	W		W	-					
DF		1	10		2.5		S	W			
Compound				Conce	entration		ug/kg	μg/L			
Benzene		ND	150	)	6.4		NA	0.5			
Ethylbenzene		ND	ND<5	5.0	4.6	T	NA	0.5			
Methyl-t-butyl ether (MTBE)	·	ND	ND<5	5.0	ND<1.2		NA	0.5			
Toluene		ND	ND<5	5.0	4.6	T	NA	0.5			
Xylenes, Total		ND	160	)	160		NA	0.5			
		Surre	ogate Rec	overies	(%)						
%SS1:		122	122	2	117						
%SS2:		91	91		92						
Comments											
* water and vapor samples are reported in µg extracts are reported in mg/L, wipe samples i	;/L, soil/s in μg/wij	sludge/solid : pe.	samples in m	ng/kg, pro	oduct/oil/non-aqueou	is liquid samples and a	Ill TCLP & SI	PLP			
ND means not detected above the reporting 1	imit/met	hod detection	n limit; N/A	means ar	nalyte not applicable	to this analysis.					
# surrogate diluted out of range or coelutes w	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

	Toll http://	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com							
AEI Consultar	nts	Client Project	ID: #298931; FSI		Date Sampled:	05/18/	12		
2500 Camina	Diable Sta #200				Date Received:	05/18/	12		
2500 Camino	Dia010, Ste. #200	Client Contact:	Robert Robitaill	e	Date Extracted:	05/18/12			
Walnut Creek,	, CA 94597	Client P.O.: #	WC083593		Date Analyzed:	05/18/	12-05/2	22/12	
Extraction method:	Total Ext SW3510C/3630C	ractable Petrole	um Hydrocarbons v methods: SW8015B	vith Silica	a Gel Clean-Up*	W	ork Order:	1205551	
Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)		TPH-Motor Oil (C18-C36)	DF	% SS	Comments	
1205551-001A	MW-1	W	210		ND	1	91	e4	
1205551-002A	MW-2	W	68		ND	1	88	e4,e2	
1205551-003A	MW-3	W	ND		ND	1	90		
1205551-004A	MW-5	W	ND		ND	1	90		
1205551-005A	DPE-1	W	280		ND	1	92	e4,e2	
1205551-006A	DPE-2	W	ND	ND ND		1	95		
1205551-007A	DPE-3	W	260		ND	1	90	e4	
1205551-008A	DPE-4	W	ND		ND	1	90		
1205551-009A	DPE-6	W	ND		ND	1	90		
1205551-010A	DPE-10	W	420		ND	1	83	e4	
1205551-011A	DPE-11	W	260		ND	1	90	e4	

Reporting Limit for DF $=1$ ;	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 / STLC / SPLP / TCLP extracts are reported in µg/L.

#) 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; &) low or no surrogate due to matrix interference.

%SS = Percent Recovery of Surrogate Standard. DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: e2) diesel range compounds are significant; no recognizable pattern e4) gasoline range compounds are significant.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager



## QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water	QC Matrix: Water				BatchID: 67724			WorkOrder: 1205551		
EPA Method: SW8021B/8015Bm Extraction: SV	W5030B					5	Spiked Sam	ple ID:	1205567-002A	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH(btex) <sup>£</sup>	ND	60	90.7	88.9	2.06	90	70 - 130	20	70 - 130	
MTBE	ND	10	91	89.4	1.79	88.7	70 - 130	20	70 - 130	
Benzene	ND	10	89.8	89.7	0.156	87.9	70 - 130	20	70 - 130	
Toluene	ND	10	88.3	88.1	0.301	85.8	70 - 130	20	70 - 130	
Ethylbenzene	ND	10	90.6	90	0.756	85.7	70 - 130	20	70 - 130	
Xylenes	ND	30	93.9	93.1	0.777	90.3	70 - 130	20	70 - 130	
%SS:	96	10	95	94	0.928	94	70 - 130	20	70 - 130	
All target compounds in the Method Blank of this extraction bar NONE	tch were ND	less than th	e method l	RL with th	he following	g exception	18:			

BATCH 67724 SUMMARY											
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed				
1205551-001A	05/18/12 6:30 AM	05/22/12	05/22/12 2:28 AM	1205551-002A	05/18/12 7:30 AM	05/23/12	05/23/12 2:46 AM				
1205551-009A	05/18/12 11:00 AM	05/22/12	05/22/12 4:54 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.

 $\pounds$  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.

DHS ELAP Certification 1644

AL\_\_QA/QC Officer



## QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water	QC Matrix: Water				BatchID: 67738			WorkOrder: 1205551	
EPA Method: SW8021B/8015Bm Extraction: SV	W5030B					;	Spiked Sarr	ple ID:	1205614-001A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TPH(btex) <sup>£</sup>	ND	60	82.2	84.9	3.22	86.4	70 - 130	20	70 - 130
MTBE	ND	10	79.2	89.7	12.4	90.4	70 - 130	20	70 - 130
Benzene	ND	10	77.3	82.5	6.58	82.9	70 - 130	20	70 - 130
Toluene	ND	10	76.6	82	6.63	84.3	70 - 130	20	70 - 130
Ethylbenzene	ND	10	76.6	82	6.65	81.9	70 - 130	20	70 - 130
Xylenes	ND	30	79.8	86.4	7.76	83.9	70 - 130	20	70 - 130
%SS:	93	10	91	91	0	92	70 - 130	20	70 - 130
All target compounds in the Method Blank of this extraction bat NONE	tch were ND	less than th	e method ]	RL with th	ne following	g exception	18:		

BATCH 67738 SUMMARY										
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed			
1205551-003A	05/18/12 9:30 AM	05/22/12	05/22/12 6:00 PM	1205551-004A	05/18/12 5:30 AM	05/22/12	05/22/12 7:29 PM			
1205551-005A	05/18/12 7:00 AM	05/22/12	05/22/12 8:57 PM	1205551-006A	05/18/12 11:30 AM	05/22/12	05/22/12 9:26 PM			
1205551-007A	05/18/12 6:00 AM	05/23/12	05/23/12 5:24 PM	1205551-008A	05/18/12 12:00 PM	05/23/12	05/23/12 4:14 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.

 $\pounds$  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.

DHS ELAP Certification 1644

AL\_\_QA/QC Officer



## **QC SUMMARY REPORT FOR SW8021B/8015Bm**

W.O. Sample Matrix: Water	QC Matrix: Water				BatchID	: 67805	WorkOrder: 1205551		
EPA Method: SW8021B/8015Bm Extraction: S	W5030B					ę	Spiked Sam	ple ID:	1205632-001A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TPH(btex) <sup>£</sup>	ND	60	88.6	91.5	3.28	93	70 - 130	20	70 - 130
MTBE	ND	10	94.2	98.4	4.38	98	70 - 130	20	70 - 130
Benzene	ND	10	91.2	90	1.26	92	70 - 130	20	70 - 130
Toluene	ND	10	93	92	1.09	94.2	70 - 130	20	70 - 130
Ethylbenzene	ND	10	91.8	91.3	0.607	91.9	70 - 130	20	70 - 130
Xylenes	ND	30	96	94.6	1.41	96.3	70 - 130	20	70 - 130
%SS:	97	10	99	92	6.68	93	70 - 130	20	70 - 130
All target compounds in the Method Blank of this extraction ba NONE	tch were ND	less than th	e method	RL with tl	he following	g exception	IS:		

BATCH 67805 SUMMARY										
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed			
1205551-010A	05/18/12 8:30 AM	05/23/12	05/23/12 5:54 PM	1205551-011A	05/18/12 10:00 AM	05/23/12	05/23/12 6:24 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.

 $\pounds$  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.

DHS ELAP Certification 1644

K\_\_\_QA/QC Officer


## QC SUMMARY REPORT FOR SW8260B

QC Matrix: Water BatchID: 67760 WorkOrder: 1205551 W.O. Sample Matrix: Water EPA Method: SW8260B Extraction: SW5030B Spiked Sample ID: 1205614-001B Sample Spiked MS MSD MS-MSD LCS Acceptance Criteria (%) Analyte µg/L µg/L % Rec. % Rec. % RPD % Rec. MS / MSD RPD LCS ND 10 92.7 95.4 2.91 90.3 70 - 130 20 70 - 130 Benzene Methyl-t-butyl ether (MTBE) ND 10 104 108 3.41 91.9 70 - 130 20 70 - 130 ND 10 90.6 93.3 2.94 91.2 70 - 130 20 70 - 130 Toluene 0 %SS1: 121 25 123 123 121 70 - 130 20 70 - 130 %SS2: 91 25 89 90 0.598 93 70 - 130 20 70 - 130 All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

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

#### BATCH 67760 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1205551-001B	05/18/12 6:30 AM	05/22/12	05/22/12 4:04 PM	1205551-002B	05/18/12 7:30 AM	05/22/12	05/22/12 8:41 PM
1205551-003B	05/18/12 9:30 AM	05/22/12	05/22/12 12:09 PM	1205551-004B	05/18/12 5:30 AM	05/22/12	05/22/12 12:48 PM
1205551-005B	05/18/12 7:00 AM	05/22/12	05/22/12 11:19 PM	1205551-006B	05/18/12 11:30 AM	05/22/12	05/22/12 2:46 PM
1205551-007B	05/18/12 6:00 AM	05/22/12	05/22/12 11:59 PM	1205551-008B	05/18/12 12:00 PM	05/22/12	05/22/12 8:02 PM
1205551-009B	05/18/12 11:00 AM	05/22/12	05/22/12 9:20 PM	1205551-010B	05/18/12 8:30 AM	05/22/12	05/22/12 10:00 PM
1205551-011B	05/18/12 10:00 AM	05/23/12	05/23/12 2:25 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.

K\_\_\_QA/QC Officer

DHS ELAP Certification 1644



## **QC SUMMARY REPORT FOR SW8015B**

W.O. Sample Matrix: Water		QC Matrix:	Water			BatchID	: 67632		WorkOrder: 1205551		
EPA Method: SW8015B	Extraction: S	W3510C/36	30C				ę	Spiked Sam	ple ID:	N/A	
Analyte		Sample Spiked MS		MS	MSD	MS-MSD	LCS	Acc	Criteria (%)		
		µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH-Diesel (C10-C23)		N/A	1000	N/A	N/A	N/A	104	N/A	N/A	70 - 130	
%SS:		N/A	625	N/A	N/A	N/A	90	N/A	N/A	70 - 130	
All target compounds in the Method Blank of NONE	this extraction ba	tch were ND	less than th	e method	RL with th	he following	g exception	s:			

#### BATCH 67632 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1205551-001A	05/18/12 6:30 AM	05/18/12	05/19/12 10:13 AM	1205551-002A	05/18/12 7:30 AM	05/18/12	05/19/12 2:16 AM
1205551-003A	05/18/12 9:30 AM	05/18/12	05/19/12 11:51 PM	1205551-004A	05/18/12 5:30 AM	05/18/12	05/19/12 9:05 AM
1205551-005A	05/18/12 7:00 AM	05/18/12	05/19/12 6:10 PM	1205551-006A	05/18/12 11:30 AM	05/18/12	05/22/12 12:03 AM
1205551-007A	05/18/12 6:00 AM	05/18/12	05/19/12 6:48 AM	1205551-008A	05/18/12 12:00 PM	05/18/12	05/19/12 5:40 AM
1205551-009A	05/18/12 11:00 AM	05/18/12	05/19/12 7:56 AM	1205551-010A	05/18/12 8:30 AM	05/18/12	05/18/12 11:59 PM
1205551-011A	05/18/12 10:00 AM	05/18/12	05/19/12 1:07 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.

DHS ELAP Certification 1644

A \_\_\_\_\_QA/QC Officer



McCampbell Analytical, Inc. "When Quality Counts" 1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com

# **Analytical Report**

AEI Consultants	Client Project ID: #298931; FSI	Date Sampled: 05/23/12
2500 Camino Diablo. Ste. #200		Date Received: 05/23/12
	Client Contact: Robert Robitaille	Date Reported: 05/25/12
Walnut Creek, CA 94597	Client P.O.: #WC083609	Date Completed: 05/25/12

### WorkOrder: 1205667

May 25, 2012

#### Dear Robert:

Enclosed within are:

- 1) The results of the 1 analyzed sample from your project: **#298931; FSI**,
- 2) QC data for the above sample, and
- 3) A copy of the chain of custody.

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.

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	McCA	MPBEL	L ANA	LY	TICA	LI	NC	Y											(	CH	A	N	0	FC	CU	ST	O	D	YI	RE	C	OF	RD	j			
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Telephone: (9	25) 252-9262							Fa	x: (9	25	) 252	-91	269	4	ED	<b>DF</b>	Rec	luir	ed?		Yes	Ę	N	0	_	PD	FR	equ	iire	d?		Ye	s	무	No		_
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Telephone: (92	200021	, ext. 148		Fax:	(925)	46-	609 EC	9		-				-		ca G																	-				
AEI Project N	0. 298931	d Ct Alam	undo Cl	Proj	ect Nai	ne:	rs	1		_				-		Sili	-																				
Project Locati	on: 1050 Par	K St., Alar	pega, CP	1 943	501									-		Μw	60B																				
Sampler Signa	ture:	Olive	and					-		Т	ME	TH	OD		(F)	8015	A 82									2											
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- <del>MW-1</del>				4	VOA, amber L	X					X	X	-	-	X	X	X																				
MW-2		-		4	VOA, amber L	X			-	-	X	X		+	X	х	X	-		2																	
-MW-3				4	VOA, amber L	X		-		-	X	X	-		х	х	X																	T			
MW-4		5-23-12	0935	4	VOA, amber L	X					X	X			X	X	X																	T	*		
MW-5			-	.4	VOA, amber L	X	_			-	X	X	-	-	X	х	X	-																			
-DEP-1				4	VOA, amber L	X	-	_	_	1	X	X	-	-	X	х	X	-															T	T			
DEP-2				4	VOA, amber L	X	_	-		1	X	X	-		X	x	X																T	T			
DEP-3				4	VOA, amber L	x	_	_	_	1	X	x	-		x	x	X																	T			
DEP-4				4	VOA, amber L	x		-	_		XX	x	-		x	x	X			-														T			
DEP-6				4	VOA, amber L	x	_	_	_	+	X	X	-		x	x	x					-												T			
DEP-10				4	VOA, amber L	x	_	_		1	XX	x-	-		x	x	X														T		1	T			
DEP-11				4	VOA, amber L	X			-		XY	x	-		X	x	X	-													T			T			
Relinquished By		Date:	Time	Rec	ceived By	-	,							+				-						-		-		_		_	1.	-	-	-			
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Relinquished By:		Date:	Time:	Rec	eived By	:					DECHLORINATED IN LAB PERSERVED IN LAB																										
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## McCampbell Analytical, Inc. 1534 Willow Pass Rd Pittsburg, CA 94565-1701



Page 1 of 1

(925) 252-9262				WorkOr	der: 1205667	Clier	ntCode: AE	<i>L</i>	
	WaterTrax		✓ EDF	Excel	Fax	🖌 Email	HardC	opy ThirdParty	J-flag
Report to:				Bill	I to:			Requested TAT:	5 days
Robert Robitaille	Email:	rrobitaille@aeico	nsultants.com		Sara Guerin				
AEI Consultants	cc:				AEI Consulta	ints			
2500 Camino Diablo, Ste. #200	PO:	#WC083609			2500 Camino	Diablo, Ste. #2	200	Date Received:	05/23/2012
Walnut Creek, CA 94597	ProjectNo:	#298931; FSI			Walnut Creel	k, CA 94597		Date Printed:	05/23/2012
(408) 559-7600 FAX: (408) 559-7601					AccountsPay	able@AEICons	ultants.c		

								Re	equested	Tests (	See leg	end bel	ow)			
Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1205667-001	MW-4	Water	5/23/2012 9:35		Α	В	Α									

#### Test Legend:

1	G-MBTEX_W
6	
11	

2	MBTEX-8260B_W
7	
12	

3	PREDF REPORT
8	

4	
9	

5	
10	

The following SampID: 001A contains testgroup.

**Prepared by: Maria Venegas** 

#### **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.



## Sample Receipt Checklist

Client Name:	AEI Consultants				Da	te and	Time Received:	5/23/2012 1	2:23:13 PM
Project Name:	#298931; FSI				Lo	gIn Rev	viewed by:		Maria Venegas
WorkOrder N°:	1205667	Matrix: Water			Ca	rrier:	Client Drop-In		
		<u>Cha</u>	in of Ըւ	ustody (C	COC) Infor	mation	1		
Chain of custody	present?		Yes	✓	No				
Chain of custody	signed when relinquis	hed and received?	Yes	✓	No				
Chain of custody	agrees with sample la	abels?	Yes	✓	No				
Sample IDs note	d by Client on COC?		Yes	✓	No				
Date and Time o	f collection noted by C	lient on COC?	Yes	✓	No				
Sampler's name	noted on COC?		Yes	✓	No				
			Sample	e Receipt	Informati	<u>on</u>			
Custody seals in	tact on shipping conta	iner/cooler?	Yes		No			NA 🔽	
Shipping contain	er/cooler in good cond	lition?	Yes	✓	No				
Samples in prope	er containers/bottles?		Yes	✓	No				
Sample containe	ers intact?		Yes	✓	No				
Sufficient sample	e volume for indicated	test?	Yes	✓	No				
		Sample Pres	ervatio	n and Ho	old Time (I	HT) Inf	ormation		
All samples rece	ived within holding tim	e?	Yes	✓	No				
Container/Temp	Blank temperature		Coole	er Temp:	5.2°C			NA	
Water - VOA vial	ls have zero headspac	e / no bubbles?	Yes	✓	No	Nc	VOA vials submi	tted	
Sample labels ch	necked for correct pres	servation?	Yes	✓	No				
Metal - pH accep	otable upon receipt (p⊦	l<2)?	Yes		No			NA 🗹	
Samples Receive	ed on Ice?		Yes	✓	No				
		(Ісе Тур	e: WE	TICE )	)				
* NOTE: If the "N	lo" box is checked, se	e comments below.							

Comments:

\_\_\_\_\_

\_\_\_\_\_

	AcCampbell Anal "When Quality Cou	ytical, Inc. unts''	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com						
AEI Consult	ants	Client Project ID:	#298931; FSI	Date Sample	ed: 05	/23/12			
2500 Camine	o Diablo, Ste. #200		Date Received: 05/23/12						
2000 00000		Client Contact: Ro	obert Robitaille	Date Extract	ted 05	/24/12			
Walnut Cree	k, CA 94597	Client P.O.: #WC	083609	Date Analyz	zed 05	/24/12			
	Gasoline Ra	nge (C6-C12) Vola	tile Hydrocarbons as (	Gasoline*					
Extraction method:	SW5030B	Analytical m	TPU(a)			ork Order:	1205667		
		Matrix	IPR(g)		Dr	% 55	Comments		
001A	MW-4	W	ND		1	115			

Reporting Limit for $DF = 1$ ;	W	50	µg/L
above the reporting limit	S	NA	NA

\* water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/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

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

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell / "When Qua	Anal Iity Cou	<u>ytical,</u> unts''	lnc.		1534 Willow I Toll Free Telepho http://www.mccamp	Pass Road, Pittsburg, CA ne: (877) 252-9262 / Fax: pbell.com / E-mail: main@	94565-1701 (925) 252-9269 @mccampbell.co	m
AEI Consultants		Client Pr	oject ID:	#2989	31; FSI	Date Sampled:	05/23/12	
2500 Camino Diablo Ste #200						Date Received:	05/23/12	
2500 Califilio Diabio, 5tc. #200		Client Co	ontact: Ro	05/25/12				
Walnut Creek, CA 94597		Client P.	0.: #WC0	05/25/12				
Extraction Method: SW5030B		MTBE	E and BT	<b>EX by</b> 1: SW8260	GC/MS*		Work Order:	1205667
Lab ID	12056	67-001B						
Client ID	М	IW-4					Reporting	Limit for $f = 1$
Matrix W								
DF		1					S	W
Compound				Conce	entration		ug/kg	μg/L
Benzene		ND					NA	0.5
Ethylbenzene		ND					NA	0.5
Methyl-t-butyl ether (MTBE)		ND					NA	0.5
Toluene		ND					NA	0.5
Xylenes, Total		ND					NA	0.5
		Surro	gate Rec	overies	(%)			
%SS1:		121						
%SS2:		121						
Comments								
* water and vapor samples are reported in με extracts are reported in mg/L, wipe samples	g/L, soil/s in µg/wij	sludge/solid s pe.	samples in n	ng/kg, pro	oduct/oil/non-aqueo	us liquid samples and	all TCLP & S	PLP
ND means not detected above the reporting	imit/met	hod detection	n limit; N/A	means ai	nalyte not applicable	to this analysis.		
# surrogate diluted out of range or coelutes v	vith anot	her peak; &)	low surroga	te due to	matrix interference.			
%SS = Percent Recovery of Surrogate Stand DF = Dilution Factor	ard							

Angela Rydelius, Lab Manager

	<u>cCampbell Ana</u> ''When Quality Col	lytical, In <sup>unts''</sup>	<u>C.</u>	1534 V Toll Free ' http://www	Willow I Telepho .mccam	Pass Road, Pittsburg, CA ne: (877) 252-9262 / Fax: pbell.com / E-mail: main@	94565-1701 (925) 252-92 mccampbell	269 .com		
AEI Consultat	nts	Client Project	t ID:	#298931; FSI		Date Sampled:	05/23/	/12		
2500 Comino	Diable Sta #200					Date Received:	05/23/	/12		
2500 Camino	Diabio, Ste. #200	Client Contac	t: R	obert Robitaille		Date Extracted:	05/23/	/12		
Walnut Creek	, CA 94597	Client P.O.:	#WC	083609		Date Analyzed:	05/24/	/12		
Extraction method:	Total Ext SW3510C/3630C	tractable Petrol Analytica	<b>eum H</b> al metho	<b>Iydrocarbons with</b> ds: SW8015B	Silica	Gel Clean-Up*	Work Order: 1205667			
Lab ID	Client ID	Matrix		TPH-Diesel (C10-C23)		TPH-Motor Oil (C18-C36)	DF	% SS	Comments	
1205667-001A	MW-4	W		ND		ND	1	92		

Reporting Limit for DF $=1$ ;	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 / STLC / SPLP / TCLP extracts are reported in µg/L.

#) 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; &) low or no surrogate due to matrix interference.

%SS = Percent Recovery of Surrogate Standard. DF = Dilution Factor

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

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Angela Rydelius, Lab Manager



## **QC SUMMARY REPORT FOR SW8021B/8015Bm**

W.O. Sample Matrix: Water	QC Matrix: Water				BatchID	: 67806	WorkOrder: 1205667		
EPA Method: SW8021B/8015Bm Extraction: S	W5030B					;	Spiked Sam	ple ID:	1205667-001A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TPH(btex) <sup>£</sup>	ND	60	96.3	94.8	1.66	94.3	70 - 130	20	70 - 130
MTBE	ND	10	91.5	88.2	3.43	87.1	70 - 130	20	70 - 130
Benzene	ND	10	92.2	92.3	0.150	92.1	70 - 130	20	70 - 130
Toluene	ND	10	93.4	93.9	0.472	94.7	70 - 130	20	70 - 130
Ethylbenzene	ND	10	92.5	93.1	0.622	93.8	70 - 130	20	70 - 130
Xylenes	ND	30	95.2	97	1.91	97.9	70 - 130	20	70 - 130
% SS:	115	10	94	95	0.883	97	70 - 130	20	70 - 130
All target compounds in the Method Blank of this extraction ba NONE	tch were ND	less than th	e method	RL with th	he following	g exceptior	15:		

			BATCH 67806 S	UMMARY			
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1205667-001A	05/23/12 9:35 AM	05/24/12	05/24/12 4:41 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.

£ 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.

₩\_\_\_QA/QC Officer



## QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water	QC Matrix	QC Matrix: Water				: 67828		WorkOrder: 1205667		
EPA Method: SW8260B	Extraction: SW5030B					ę	Spiked Sam	ple ID:	1205683-003A	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acce	eptance	Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
Benzene	ND	10	86.7	89.1	2.76	93.1	70 - 130	20	70 - 130	
Methyl-t-butyl ether (MTBE)	ND	10	103	103	0	96.5	70 - 130	20	70 - 130	
Toluene	ND	10	84.4	87	2.94	91.1	70 - 130	20	70 - 130	
%SS1:	124	25	119	119	0	115	70 - 130	20	70 - 130	
%SS2:	121	25	118	120	1.67	120	70 - 130	20	70 - 130	
All target compounds in the Method Blank of NONE	this extraction batch were ND	less than th	e method	RL with th	ne following	g exception	s:			

			BATCH 67828 SI	<u>UMMARY</u>			
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1205667-001B	05/23/12 9:35 AM	05/25/12	05/25/12 12:14 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.

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A QA/QC Officer



## QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water		QC Matrix: Water				BatchID	: 67695		WorkOrder: 1205667	
EPA Method: SW8015B	Extraction: SV	W3510C/3630C				Spiked Sample ID: N/A				
Analyte		Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)
Allalyte		µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TPH-Diesel (C10-C23)		N/A	1000	N/A	N/A	N/A	110	N/A	N/A	70 - 130
%SS:		N/A	625	N/A	N/A	N/A	98	N/A	N/A	70 - 130
All target compounds in the Method Blank of NONE	this extraction bat	ch were ND	less than th	e method	RL with th	ne following	g exception	s:		

#### BATCH 67695 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1205667-001A	05/23/12 9:35 AM	05/23/12	05/24/12 9:51 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.

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K\_\_QA/QC Officer



McCampbell Analytical, Inc. "When Quality Counts" 1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com

# **Analytical Report**

AEI Consultants	Client Project ID: #298931; FSI	Date Sampled: 05/17/12
2500 Camino Diablo. Ste. #200		Date Received: 05/18/12
	Client Contact: Robert Robitaille	Date Reported: 05/29/12
Walnut Creek, CA 94597	Client P.O.: #WC083593	Date Completed: 05/29/12

### WorkOrder: 1205549

May 29, 2012

Dear Robert:

Enclosed within are:

- 1) The results of the 3 analyzed samples from your project: **#298931; FSI**,
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

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.

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	McCA	MPBEL	L ANA	LY	TICA	LI	NO								т	UR	N/	AR	) 10		AI ) T	N IM	OF E	C		TC	DDY	R R	EC		RD		)	
Telephone: (9	25) 252-9262	2	Koau, r	ittsb	urg, c.	A 74	+30.	Fax	K: (S	925	) 25	2-9	269		EI	DF I	Requ	ire	d?		Yes		No	1	RUS	H DF I	24 H Requ	IR	4	8 HR	es	72 H	IR 0	5 DAY
Report To: Ro	bert Robitai	ille		Bill	To: AE	IC	ons	ulta	nts					-					1	Ana	lysis	Re	que	st	_			$ \rightarrow$	(	Othe	er	0	omn	nents
Company: Al	EI Consultan	ts, 2500 Ca	mino Di	ablo	, Walni	ut C	ree	k, C	CAS	945	97				6.																			
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				E-M	ail: rro	bitai	ille@	daei	cons	sult	tatns	s.co	m	-	*																			
Telephone: (92	25) 746-6000	, ext. 148		Fax:	(925)	/46-	609	19						-	2												. 3							
AEI Project N	0. 298931	d St Alon	ada Ci	Proj	ect Nai	me:	rs	1	_	_					K																			
Sampler Signs	ture	MAL, Alan	ieua, Cr	1 943	01									-!	13										1					9				
Sampler Signa		SAMP	LING	s	ers		MA	TR	IX		M PRE	ETH SEI	IOD RVE	D	3) 20																			
SAMPLE ID	FIELD POINT NAME	Date	Time	# of Containe	Type Contain	Water	Soil	Air	Sludge	Other	Ice	HCL	HNO <sub>3</sub>	Uther .	TPH as Gas (He	BTEX (TO-15)														¢				
VP-1		5-17-12	1327	1	1- L Sum			X							X	X																		
VP-2			1345	1	1-L Sum			X							х	Х																		
VP-3		*	1405	1	1- L Sum			X							x	X								-						_		-		
														1							-									_		t		
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Relinquished By:	~ 00	Date:	Time:	Rec	eived By	:									GHD	GOO IEA	D CO	ONI	E A	ION BSE ED	NT IN I	AB		AP CO F	PRO	PRI	ATE ERS_		LAB					

## McCampbell Analytical, Inc. 1534 Willow Pass Rd Pittsburg, CA 04555

Pittsburg, CA 94565-1701



Page 1 of 1

(925) 252-9262				WorkOr	der: 1205549	Clier	tCode: AEL		
	WaterTrax		✓ EDF	Excel	Fax	🖌 Email	HardCop	y ThirdParty	J-flag
Report to:				Bill	l to:		R	equested TAT:	5 days
Robert Robitaille	Email:	rrobitaille@aeico	nsultants.com		Sara Guerin				
AEI Consultants	cc:				AEI Consulta	nts			
2500 Camino Diablo, Ste. #200	PO:	#WC083593			2500 Camino	Diablo, Ste. #2	200 L	oate Received:	05/18/2012
Walnut Creek, CA 94597	ProjectNo:	#298931; FSI			Walnut Creek	k, CA 94597	L	Date Printed:	05/29/2012
(408) 559-7600 FAX: (408) 559-7601					AccountsPay	able@AEICons	ultants.c		

						Requested Tests (See legend below)           1         2         3         4         5         6         7         8         9         10         11           A         A										
Lab ID	Client ID	Matrix	<b>Collection Date</b>	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1205549-001	VP-1	Soil Gas	5/17/2012 13:27		Α	Α										
1205549-002	VP-2	Soil Gas	5/17/2012 13:45			Α										
1205549-003	VP-3	Soil Gas	5/17/2012 14:05			Α										

#### Test Legend:

1	PREDF REPORT
6	
11	

2	TO15+GAS_SOIL(UG/M3)
7	
12	

3	
8	

4	
9	

5		
10	)	

The following SampIDs: 001A, 002A, 003A contain testgroup.

#### **Prepared by: Maria Venegas**

#### **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.



## Sample Receipt Checklist

Client Name:	AEI Consultants				Date an	nd Time Received:	5/18/2012 1:59:46 PM
Project Name:	#298931; FSI				LogIn R	eviewed by:	Maria Venegas
WorkOrder N°:	1205549	Matrix: Soil Gas			Carrier:	Client Drop-In	
		<u>Cha</u>	in of Cu	istody (COC	) Informatio	on	
Chain of custody	present?		Yes	✓	No		
Chain of custody	signed when relinquis	shed and received?	Yes	✓	No		
Chain of custody	agrees with sample la	abels?	Yes	✓	No		
Sample IDs note	d by Client on COC?		Yes	✓	No		
Date and Time of	f collection noted by C	Client on COC?	Yes	✓	No 🗌		
Sampler's name	noted on COC?		Yes	✓	No		
			<u>Sample</u>	Receipt Inf	ormation		
Custody seals int	tact on shipping conta	iner/cooler?	Yes		No		NA 🔽
Shipping contain	er/cooler in good cond	dition?	Yes	✓	No 🗌		
Samples in prope	er containers/bottles?		Yes	✓	No 🗌		
Sample containe	rs intact?		Yes	✓	No		
Sufficient sample	e volume for indicated	test?	Yes	✓	No		
		Sample Pres	servatio	n and Hold 1	<u> Fime (HT) lı</u>	nformation	
All samples receipt	ived within holding tim	ie?	Yes	✓	No		
Container/Temp	Blank temperature		Coole	er Temp:			NA 🖌
Water - VOA vial	s have zero headspac	ce / no bubbles?	Yes		No 🗌 🛽 1	No VOA vials subm	itted 🖌
Sample labels ch	necked for correct pres	servation?	Yes	✓	No		
Metal - pH accep	table upon receipt (pł	1<2)?	Yes		No		NA 🗹
Samples Receive	ed on Ice?		Yes		No 🗹		

\* NOTE: If the "No" box is checked, see comments below.

Comments:

\_\_\_\_\_

\_\_\_\_\_

		nalytico	al, Inc.	1534 W Toll Free T http://www.r	/illow Pass Road, Pittsburg, CA 94565-1 'elephone: (877) 252-9262 / Fax: (925) 25 mccampbell.com / E-mail: main@mccamp	701 52-9269 pbell.com		
AEI C	Consultants	Client	Project ID:	#298931; FSI	Date Sampled: 05/1	7/12		
2500	Camino Diablo, Ste. #200				Date Received: 05/1	8/12		
2000	Cullino Diacio, 500, 1200	Client	Contact: Rol	pert Robitaille	Date Extracted: 05/2	3/12		
Waln	ut Creek, CA 94597	Client	P.O.: #WC08	33593	Date Analyzed: 05/2	3/12		
Extractio	on method: TO15		Leak Cl Analyt	heck Compound	*	Work	Order: 1	205549
Lab ID	Client ID	Matrix	Initial Pressure	Final Pressure	Isopropyl Alcohol	DF	% SS	Comments
001A	VP-1	Soil Gas	12.21	24.34	ND	1	N/A	
002A	VP-2	Soil Gas	12.73	25.41	ND	1	N/A	
003A	VP-3	Soil Gas	12.98	25.86	ND	1	N/A	
	Reporting Limit for DF =1; ND means not detected at or	W SoilGas	psia	psia	NA 50			NA
* leak cl	above the reporting limit heck compound is reported in $\mu g/m^3$ .	nit/method deter	psia	peans analyte not app	JU			μg/11Γ

The IPA reference is:

DTSC, Advisory-Active Soil Gas Investigations, March 3rd, 2010, page 24, section 2.4:

"The laboratory reports should quantify and annotate all detections of the leak check compound at the reporting limit of the target analytes."

%SS = Percent Recovery of Surrogate Standard DF = Dilution Factor

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

	Anal Iity Cou	ytical, unts''	<u>, Inc.</u>		1534 Willow I Toll Free Telepho http://www.mccamp	Pass Road, Pittsburg, CA ne: (877) 252-9262 / Fax: pbell.com / E-mail: main@	94565-1701 (925) 252-9269 ⊉mccampbell.co	m			
AEI Consultants		Client Pr	oject ID:	#2989	931; FSI	Date Sampled:	05/17/12				
2500 Coming Dishla Sta #200						Date Received:	05/18/12				
2300 Camino Diabio, Ste. #200		Client Co	05/23/12								
Walnut Creek, CA 94597		Client P.	O.: #WC0	05/23/12							
Extraction Method: TO15	TPH g	as + Vola Ana	tile Organ	nic Cor 1: TO15	npounds in µg/ı	n <sup>3*</sup>	Work Order:	1205549			
Lab ID	12055	49-001A	1205549-	-002A	1205549-003A						
Client ID	١	/P-1	VP-	2	VP-3		-				
Matrix	So	il Gas	Soil C	las	Soil Gas		Reporting	Limit for $=1$			
Initial Pressure (psia)	1	2.21	12.7	5	12.98		and Press (Final/In	itial) = $2$			
Final Pressure (psia)	24.34		25.4	1	25.86		-				
DF		1	1		1		Soil Gas	W			
Compound				Conce	entration		μg/m <sup>3</sup> ι				
Benzene		ND	ND	Conce	ND		6.5	NA			
Ethylbenzene		ND	ND		ND		8.8	NA			
Toluene		ND	ND		ND		7.7	NA			
TPH(g)		ND	ND		ND		1800	NA			
Xylenes, Total		ND	ND		ND		27	NA			
		Surro	ogate Rec	overies	s (%)						
%SS1:		95	95		95						
%SS2:		102	101		101						
%SS3:		104	104		103						
Comments											
<ul> <li>*vapor samples are reported in µg/m<sup>3</sup>.</li> <li>ND means not detected above the reporting I</li> <li># surrogate diluted out of range or surrogate</li> <li>%SS = Percent Recovery of Surrogate Stand</li> </ul>	imit/met	hod detection	n limit; N/A	means ar	nalyte not applicable	to this analysis.					
DF = Dilution Factor											

DF = Dilution Factor



## **QC SUMMARY REPORT FOR TO15** W.O. Sample Matrix: Soilgas

QC Matrix: Soilgas BatchID: 67847

WorkOrder: 1205549

PA Method: TO15 Extraction: TO15 Spiked Sample ID: N/A									
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	nL/L	nL/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Benzene	N/A	25	N/A	N/A	N/A	128	N/A	N/A	70 - 130
Ethylbenzene	N/A	25	N/A	N/A	N/A	126	N/A	N/A	70 - 130
Toluene	N/A	25	N/A	N/A	N/A	122	N/A	N/A	70 - 130
Xylenes, Total	N/A	75	N/A	N/A	N/A	122	N/A	N/A	70 - 130
%SS1:	N/A	500	N/A	N/A	N/A	101	N/A	N/A	70 - 130
%SS2:	N/A	500	N/A	N/A	N/A	100	N/A	N/A	70 - 130
%SS3:	N/A	500	N/A	N/A	N/A	100	N/A	N/A	70 - 130
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE									

BATCH 67847 SUMMARY													
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed						
1205549-001A	05/17/12 1:27 PM	05/23/12	05/23/12 3:46 PM	1205549-001A	05/17/12 1:27 PM	05/23/12	05/23/12 3:46 PM						
1205549-002A	05/17/12 1:45 PM	05/23/12	05/23/12 4:27 PM	1205549-002A	05/17/12 1:45 PM	05/23/12	05/23/12 4:27 PM						
1205549-003A	05/17/12 2:05 PM	05/23/12	05/23/12 5:08 PM	1205549-003A	05/17/12 2:05 PM	05/23/12	05/23/12 5:08 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 and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with 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.

**DHS ELAP Certification 1644** 

R\_\_\_QA/QC Officer