GETTLER-RYAN INC.

SUBSURFACE INVESTIGATION REPORT

at

Tosco (Unocal) Service Station No. 7376
4191 First Street
Pleasanton, California

Report No. 140107.04

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INTRODUCTION

This report summarizes field activities performed by Gettler-Ryan Inc. (GR) from October 7 through December 6, 1999, at the subject site. The purpose of this subsurface investigation was to collect data to better understand the local geology/hydrogeology and to delineate the lateral and vertical extent of hydrocarbon-impacted soil and groundwater adjacent to the subject site. The work performed included: drilling three off-site soil borings and constructing groundwater monitoring wells in two of the borings; collecting soil samples for description and chemical analysis; developing and sampling the newly installed groundwater monitoring wells; surveying all of the wells and borings; analyzing the soil and groundwater samples; and preparing this report. In addition, two soil samples were collected for Risk Based Corrective Action (RBCA) evaluation analysis. This work was performed at the request of Tosco Marketing Company (Tosco) and in response to a meeting of Alameda County Health Care Services Agency (ACHCSA), Regional Water Quality Control Board (RWQCB), Tosco, and GR personnel on April 20, 1999. This work was proposed in the GR Report No. 140107.04-1, *Work Plan for a Subsurface Investigation*, dated May 28, 1999. The Work Plan was approved with conditions in a letter from the ACHCSA dated August 13, 1999.

SITE DESCRIPTION

The subject site is an operating service station located on the north corner of the intersection of First Street and Ray Street in Pleasanton, California (Figure 1). The site is bounded to the northwest by a former Southern Pacific Railroad right-of-way currently owned by Alameda County, to the north and northeast by a commercial building, to the southeast by First Street, and to the southwest by Ray Street. Properties in the immediate site vicinity are used for a mix of residential and commercial purposes that include restaurants and shopping facilities. The site is located at an approximate elevation of 366 feet above sea level. Current site facilities consist of a kiosk with four product dispenser islands and two 12,000-gallon double-wall fiberglass gasoline underground storage tanks (USTs). Locations of the pertinent site features are shown on the Site Plan (Figure 2).

SITE HISTORY/PREVIOUS ENVIRONMENTAL WORK

Below is a summary of data presented in a meeting between RWQCB, ACHSCA, Tosco and GR personnel on April 20, 1999. Historical analytical data are included in Appendix A.

The site was developed in 1899 as a warehouse to store grains and hay (Amador-Livermore Valley Historical Society, 1994). According to a Sanborn map, an "in-ground" storage tank for oil was installed on-site in 1907. The first service station was built on the site in 1976 (Enviros, 1995). Between November 8, 1982 and February 8, 1985, the Pleasanton Fire Department (PFD) responded to five separate fuel releases at the site (PFD, 1988).

On June 30, 1987, exploratory soil borings B-1, B-2, and B-3 were drilled at the site and sampled by Applied GeoSystems (AGS). Borings B-1 and B-2 were drilled to a final depth of 46.5 feet below ground surface (bgs) and B-3 was drilled to 55 feet bgs (Figure 2). Three soil samples from each boring were analyzed for Total Petroleum Hydrocarbons as gasoline (TPHg) and benzene, toluene, ethylbenzene, and xylenes (BTEX), except for a sample collected at 35 feet bgs from B-1 (sample S-35-B1) which was also analyzed for Total Petroleum Hydrocarbons as diesel (TPHd). A sample collected at 10 feet bgs from B-3 was reported as not detected for all analytes. The remaining samples contained petroleum hydrocarbons at concentrations ranging from 7.72 to 188.8 parts per million (ppm) of TPHg and 0.07 to 17.1 ppm of benzene. Sample S-35-B1 also contained 1,325 ppm of TPHd. Groundwater was not encountered in the borings (AGS, 1987).

On August 21, 1987, soil boring B-4 was advanced by AGS to a total depth of 66.5 feet bgs (Figure 2). One soil sample collected at 35 feet bgs contained 100.5 ppm of TPHg, 1.4 ppm of benzene, and 1,835 ppm of TPHd. A second soil sample collected at 65 feet bgs was reported as not detected for TPHg, TPHd, and BTEX. Groundwater was not encountered in the boring (AGS, 1987a).

On December 2 through 7, 1987, AGS advanced three soil borings (B-5, B-6, B-7) to a total depth of 96.5 feet bgs and completed the borings as groundwater monitoring wells MW-1, MW-2, and MW-3 (Figure2). The wells were completed at depths of 96.5, 85, and 96.5 feet bgs, respectively. Saturated soil was initially encountered at approximately 80 feet bgs. Two soil samples collected at 35 and 70 feet bgs in boring B-5 were reported as not detected for TPHg, TPHd, and BTEX. One soil sample collected at 35 feet bgs in boring B-6 contained 15.0 ppm of TPHg, 6,300 ppm of TPHd and was not detected for benzene. One soil sample collected at 70 feet bgs in Boring B-6 were reported as not detected for TPHg, TPHd, and BTEX. A sample collected at 55 feet bgs in boring B-7 contained 390 ppm of TPHg, 1.3 ppm of benzene, and 220 ppm of TPHd. A sample collected at 75 feet bgs in boring B-7 contained 5.0 ppm of TPHg, 30.0 ppm of TPHd, and was not detected for BTEX. Groundwater samples collected from well MW-1, MW-2, and MW-3 contained petroleum hydrocarbon concentrations ranging from 0.0500 to 24.000 ppm of TPHg, 0.058 to 2.600 ppm of benzene, and 0.620 to 2.300 ppm of TPHd (AGS, 1987b).

A 1/2-mile radius well survey was performed by AGS in late 1987 or early 1988. A review of the Alameda County Flood Control and Water Conversation District - Zone 7 (Zone 7) files identified five water wells and two cathodic protection wells within the 1/2-mile radius of the site. Four of the five water wells are domestic wells and the fifth appears to be a monitoring well (AGS, 1987b and KEI, 1996).

Reportedly, in December 1987, the four 12,000-gallon USTs were replaced with two 12,000-gallon double-wall USTs. An unknown volume of contaminated soil was reportedly removed and transported to a Class I facility. The property and facilities were sold to the Unocal Corporation in February 1988 (KEI, 1996 and Enviros, 1995).

In September 1994, KEI performed soil sampling services during a dispenser and product piping upgrade at the site. A total of twelve trench soil samples were collected at approximately 3 feet bgs. Petroleum hydrocarbons were detected in the samples at concentrations ranging from not detected to 8,900 ppm of TPHg, and not detected to 65 ppm of benzene. Upon receipt of the analytical data, overexcavation was performed in the area of two soil samples with elevated hydrocarbon concentrations. Three soil samples were collected at approximately 9 feet bgs. The two overexcavation samples were reported to contain 13 and 17 ppm of TPHg and 0.020 to 0.029 ppm of benzene. The third soil sample, collected laterally between the two overexcavation samples contained 4,400 ppm of TPHg and 29 ppm of benzene (KEI, 1994).

On February 6 and 7, 1995, KEI destroyed monitoring well MW-2 and advanced two soil borings (MW-2B and EB-1). Boring MW-2B was completed as a monitoring well. Well MW-2 was destroyed due to asphalt tar being introduced into the well casing during repaving activities at the site. Soil boring EB-1 was drilled to a total depth of 66 feet bgs and well MW-2B was drilled and constructed to a total depth of 91 feet bgs (Figure 2). A total of twenty-nine soil samples were collected during boring EB-1 and MW-2B drilling activities. Samples collected from 5 to 50 feet bgs from EB-1 contained petroleum hydrocarbon concentrations ranging from 27 to 15,000 ppm of TPHg, 0.29 to 340 ppm of benzene, and 55 to 3,600 ppm of TPHd. Samples collected from 55 to 65 feet bgs from EB-1 contained petroleum hydrocarbon concentrations ranging from not detected to 6.4 ppm of TPHg, not detected to 0.89 ppm of benzene, and not detected for TPHd. Soil samples collected from 5 to 65 feet bgs in well boring MW-2B contained petroleum hydrocarbons concentrations ranging from 1.0 to 720 ppm of TPHg, not detected to 9.5 ppm of benzene, and not detected to 2,400 ppm of TPHd. Soil samples collected from 70 to 80 feet bgs in well boring MW-2B were reported as not detected for TPHg, BTEX, and TPHd (KEI, 1995).

Enviros was contracted to perform a Phase I Environmental Site Assessment for the site in early 1995 (Enviros, 1995).

On July 23 and 24, 1996, KEI advanced three soil borings and completed them as groundwater monitoring wells MW-4, MW-5 and MW-6 to total depths of 73.5 to 93 feet bgs. Well MW-4 was installed on-site and wells MW-5 and MW-6 were installed off-site on the former Southern Pacific Railroad right-of-way (Figure 2). A total of forty-seven soil samples were collected from the well borings and analyzed for TPHg, BTEX, and fuel fingerprinting. Soil samples from well boring MW-4 contained low concentrations of petroleum hydrocarbons ranging from not detected to 47 ppm of TPHg, not detected to 0.27 ppm of benzene, not detected to 15 ppm of TPHd. Soil samples collected in the upper 50 feet of well boring and NW-5 were reported as not detected for TPHg and TPHd, and contained benzene in concentrations ranging from not detected to 0.038 ppm. Samples collected

between 55 and 65 feet bgs in MW-5 contained petroleum hydrocarbon concentrations ranging from 32 to 560 ppm of TPHg, 0.28 to 3.9 ppm of benzene, and not detected to 450 ppm of TPHd. Samples collected from MW-6 contain petroleum hydrocarbon concentrations ranging from not detected to 5.0 ppm of TPHg, not detected to 1.2 ppm of benzene, and not detected for TPHd except for 200 ppm detected at 55 feet bgs. Petroleum hydrocarbon concentrations in the range of kerosene, motor oil, and unidentified extractable hydrocarbons were also identified in the samples collected from the well borings (KEI, 1996).

Free product was found in well MW-5 during quarterly monitoring activities on June 27, 1997. In December 1997, (Entrix) performed a forensic geochemical analysis of free product extracted from well MW-5. The Entrix study determined that the free product was most likely composed of a mixture of over 50% refined gasoline and 50% heavier hydrocarbons. The gasoline constituents appeared to be relatively fresh according to Entrix. The heavier hydrocarbon mixture had a carbon distribution ranging from about nC13 to nC33. The distribution is similar in nature to a very weathered crude oil or Bunker C fuel, petroleum products such as diesel #2, motor oil, lube oil, etc., or mixtures of any of the above heavier hydrocarbons (Entrix, 1997).

Five onsite soil borings (B-8 through B-12) were advanced and two offsite downgradient groundwater monitoring wells (MW-7, MW-8) were installed by GR between June and August 1998 (Figure 2). A total of forty soil samples were collected from the soil and well borings and analyzed for TPHg, BTEX, MTBE, TPHd, and TPHo. Petroleum hydrocarbon concentrations in the soil samples range from not detected for all analytes for soil boring B-8 and well boring MW-7, to a maximum of 1,700 ppm of TPHg and 21 ppm of benzene (B-12 at 37.5 feet bgs), 14,000 ppm of TPHd, 2.6 ppm of MTBE (B-12 at 28.5 feet bgs), and 5,200 ppm of TPHo (B-11 at 10.5 feet bgs). Elevated concentrations of petroleum hydrocarbons were concentrated at 24.5 and 31 feet bgs in boring B-10, from the surface to 61 feet bgs in boring B-11, at 28.5, 37.5 and 47 feet bgs in boring B-12, and at 45.5 feet bgs in well boring MW-8. In addition, two soil samples containing visible free product were collected from boring B-11 (near the former UST excavation) at 10.5 and 61 feet bgs and submitted to Global Geochemistry Corp. for hydrocarbon fingerprinting chemical analysis. The results of these analyses was that the free product from both samples was composed of approximately 90% highly to severely weathered semi-volatile and high boiling components identified as crude oil and 10% of slightly weathered gasoline (GR, 1999).

Groundwater has been monitored on a quarterly basis from December 1994 to the present. Groundwater analytical data collected during monitoring indicates that free product or a product sheen has been present in well MW-5 since December 1996. Excluding MW-5, petroleum hydrocarbon concentrations in the groundwater on-and off-site has ranged from not detected to 23,000 ppb of TPHg, not detected to 950 ppb of benzene, not detected to 4,400 ppb of MTBE, and not detected to 4,000 ppb of TPHd. Depth to groundwater has fluctuated from approximately 49.63 to 87.26 feet bgs (GR, 1999a). The encountered water-bearing zone appears to be unconfined and controlled by the discontinuous nature of the alluvial fan deposits. The elevated water table identified in MW-5 ~~is~~ appears to be a result of the discontinuous nature of the alluvial fan deposits that underlie the site.

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Groundwater flow has ranged from southeast to northwest with a hydraulic gradient of approximately 0.07 to 0.1 feet/feet.

REGIONAL GEOLOGY

The subject site is located at the base of the northwest end of the Valle De San Jose. The site is underlain by Holocene age coarse grain alluvium interpreted to be alluvial fan deposits. These deposits are composed of unconsolidated, well bedded, moderately sorted, permeable sand and silt, with coarse sand and gravel becoming abundant toward fan heads and in narrow canyons (Helley, 1979). The site is also located approximately 1,000 feet west and north of Pliocene and/or Pleistocene non-marine sedimentary Livermore Gravel (Diblee, 1980).

Previous subsurface studies performed by AGS, KEI, and GR indicate the site is underlain by alluvium to a maximum explored depth of 96.5 feet bgs. The alluvium consists of interbedded layers of silts, sands, clays and gravels in both the vadose and saturated zones (KEI, 1996).

Groundwater has been historically reported at approximately 67.15 to 87.26 feet below top of casing (TOC) in wells MW-1, MW-2B, MW-3, MW-4, and MW-6. Groundwater in well MW-5 has been historically reported at 49.63 to 69.47 feet below TOC. The water-bearing zone appears to be unconfined beneath the site. Groundwater in well MW-5 has historically appeared "perched" and unconfined. Water table elevations in well MW-5 are generally 15 feet higher, compared to nearby well water table elevations (wells MW-6, MW-7 and MW-8). A review of Alameda County Flood Control and Water Conversation District-Zone 7 (1993) groundwater data determined that the regional groundwater flow direction in the vicinity of the site was toward the northwest. The nearest surface water is Arroyo Valle, located approximately 700 feet northwest of the site.

FIELD ACTIVITIES

Field work was performed in accordance with the GR Site Safety Plan No. 140107.04, dated October 1, and November 19, 1999. GR Field Methods and Procedures and Site Safety Plan are presented in Appendix B. Underground Service Alert (USA) was notified prior to beginning the drilling activities and a utility locator service was employed to clear each drilling location. Drilling and well installation was performed under Zone 7 Drilling Permit No. 99162 and Alameda County Public Works Agency Roadway Encroachment Permit No. R00-LD0401. A copy of the permits is included in Appendix C.

Soil boring B-13, located approximately 10 feet north of the subject site in an adjacent property's planter, was advanced to a total depth of 135.5 feet below ground surface (bgs) on November 22 and 23, 1999. This boring was advanced to collect additional information regarding the subsurface conditions, geologic information and investigation into the source of the "crude oil" or "heavy" hydrocarbon identified in off-site well MW-5. Two off-site soil borings were drilled on October 7 and November 21, 1999 and completed as groundwater monitoring wells MW-9 and MW-10,

respectively. The wells were installed to total depths of approximately 75 and 100 feet bgs, respectively. The purpose of installing these wells was to delineate impacted groundwater down- and cross-gradient. Locations of the borings and wells are shown on Figure 2.

All borings were drilled using a truck-mounted drill rig equipped with eight-inch diameter hollow stem augers. Drilling was performed by Woodward Drilling Company of Rio Vista, California (#C57 710079). A GR geologist observed the drilling and well installation activities, described the encountered soil, and prepared a log of each boring. Logs of the soil borings are included in Appendix C. Mr. Scott Seery of ACHSCA was present during some of the drilling activities.

Soil cuttings generated during drilling were placed on and covered with plastic sheeting and stored at the site pending disposal. Samples TS-1 (comp) and TS-2 (comp) were collected from the stockpiled soil cuttings and submitted to the laboratory to be composited and analyzed as one sample. Stockpile sampling procedures are presented in Appendix B. Water generated during the cleaning of the drilling equipment was placed in properly labeled drums and stored at the site pending disposal.

Well Installation

Each well was constructed using 2-inch diameter Schedule 40 polyvinyl chloride (PVC) casing and 0.02-inch machine-slotted well screen. The annular space around the well screen in each well boring was packed with Lonestar #3 sand to approximately one foot above the top of the well screen. The sandpack in each well was followed by a bentonite transition seal and then completed with neat cement. The top of each well is protected by a vault box, locking well cap, and lock. Well construction details are included on the boring logs in Appendix C.

Well Monitoring, Development, and Sampling

Monitoring, development, and sampling of the two newly installed and six existing wells were performed by GR personnel. Copies of the well development and field monitoring data sheets are included in Appendix D.

Well MW-9 was developed on November 29, 1999 and sampled during the 4th Quarter 1999 monitoring and sampling event on December 6, 1999. Depth to groundwater in MW-9 was measured and checked for the presence of floating product prior to development. The well did not dewater during development, and yielded a minimum of 10 well casing volumes of purge water. Quarterly groundwater monitoring was performed and groundwater samples were collected in appropriate containers supplied by the laboratory. Well MW-10 was found to be dry on November 29 and December 6, 1999. Approximately 0.82 feet of floating product was measured in well MW-5 on December 6, 1999. Purge water generated during development and sampling procedures was discharged to a truck-mounted tank, then transported to the Tosco Refinery in Rodeo, California for disposal. Monitoring data are summarized in Table 1.

Wellhead Survey

Following installation of the wells, the well casing elevations were surveyed by Virgil Chavez Land Surveying of Vallejo, California (California Land Surveyor No. 6323). Top of casing and vault box elevations were measured relative to MSL, and the horizontal locations of the wells surveyed. Horizontal locations of soil boring B-13 and other pertinent equipment were also surveyed. Well casing elevations are summarized in Table 1. A copy of the surveyor's report is included in Appendix E.

SUBSURFACE CONDITIONS

The unsaturated (vadose) zone is comprised predominantly of fill material overlying a fine-grained unit containing discontinuous strata, overlying a predominantly coarse-grained unit with silt and clay strata. The saturated zone is comprised of interbedded silts, sands, clay and gravels. Groundwater was initially encountered at depths of approximately 61.5 to 77 feet bgs. Two geologic cross sections (A-A' on Figure 3 and B-B' on Figure 4) were constructed from data generated during recent and previous drilling activities. Cross section locations are shown on Figure 2.

Prior to quarterly groundwater sample collection on December 6, 1999, GR personnel measured the depth to groundwater in wells MW-1 through MW-5 and MW-7 through MW-9 at 70.02 to 92.23 feet below top of well casing. Floating product was observed in well MW-5 during the December 6, 1999 monitoring episode. Wells MW-6 and MW-10 contained insufficient groundwater to measure. These data were used to construct a Potentiometric Map (Figure 5). Based on these data, the Potentiometric Map depicts a general groundwater flow of north with a calculated hydraulic gradient of 0.095 to 0.111 feet/feet. Well MW-4 displayed an anomalous depth to water of 92.23 feet below TOC, which was not used for construction of the Potentiometric Map. The groundwater in MW-4 may have been trapped in the bottom of the well casing, and therefore not representative of actual groundwater conditions. This map suggests the water in well MW-5 is perched relative to the other wells. The difference in the groundwater elevations may also be a result of lithological or structural constraints, or possibly some offset or displacement in the soils beneath the site in the area between MW-2B and MW-5 (Figures 3 and 4). The encountered water-bearing zone(s) appears to be unconfined.

CHEMICAL ANALYTICAL RESULTS

A total of twenty-eight soil samples from the soil borings, two composite samples from the stockpiled drill cuttings, five grab groundwater samples and eight groundwater monitoring well samples were collected and submitted for chemical analysis. Soil samples were selected using OVM data and geologic interpretation. Analyses of soil, grab groundwater, and monitoring well groundwater samples were performed by Sequoia Analytical of Redwood City, California (ELAP #1210). Two soil samples were tested for specific physical parameters to be used in future RBCA evaluations were

performed by PTS Laboratories, Inc. of Santa Fe Springs, California. Copies of the laboratory reports and chain-of-custody forms are included in Appendix F.

Chemical Analytical Procedures

Selected soil samples from the borings were analyzed for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene and xylenes (BTEX), and methyl tert-butyl ether (MtBE) according to Environmental Protection Agency (EPA) Method 5030/8015/8020. Grab groundwater samples were analyzed for TPHg, BTEX, and MTBE by EPA Methods 8020 and 8260. Quarterly groundwater samples were analyzed for TPHd, TPHg, BTEX, and MTBE by EPA Method 8020 and sample MW-9 was also analyzed for oxygenate compounds by EPA Method 8260. Soil stockpile sample TS-1 (comp) was analyzed for TPHg, BTEX, total lead, and reactivity, corrosivity and ignitability (RCI). Soil stockpile sample TS-2 (comp) was analyzed for TPHg, TPHd, TPHo, BTEX, total lead, STLC lead, and RCI. Quarterly groundwater chemical analytical data are summarized in Table 1 and shown on Figure 5. Grab groundwater sample chemical analytical data are summarized in Table 2 and shown on Figure 7. Soil chemical analytical data are summarized in Table 3 and shown on Figures 3 and 4.

Soil Chemical Analytical Results

Soil Boring B-13

Nine soil samples collected from boring B-13 between 7.5 and 73.5 feet bgs contained petroleum hydrocarbons in concentrations ranging from not detected to 14,000 ppm of TPHg and an unidentified hydrocarbon with a carbon chain range of greater than C10, not detected to 100 ppm of benzene, and not detected to 0.18 ppm of MTBE. The highest petroleum hydrocarbon concentrations were identified at 28 and 46 feet bgs. Five soil samples collected between 85.5 and 126 feet bgs did not contain any petroleum hydrocarbons. Soil chemical analytical data are summarized in Table 3 and shown on Figure 4.

Well Boring MW-9

No petroleum hydrocarbons were detected in five soil samples collected between 16 and 60.5 feet bgs. In addition, field screening procedures conducted on retrieved soil samples also indicated an absence of petroleum hydrocarbons in well boring MW-9. Soil chemical analytical data are summarized in Table 3.

Well Boring MW-10

Nine soil samples collected from well boring MW-10 between 5.5 and 90.5 feet bgs were reported as not detected for TPHg, benzene, and MTBE, except for 9.7 ppm of TPHg and 0.035 ppm of benzene detected in the sample collected at 38 feet bgs and 240 ppm of TPHg and unidentified hydrocarbons

with a carbon chain range of C6-C12, 0.71 ppm of benzene, and 1.2 ppm of MTBE (not detected by EPA Method 8260) in the sample collected at 56 feet bgs. No soil samples were collected between 56 and 70 feet bgs due to the overdrilling and recovery of a piece of broken downhole drilling equipment. Soil chemical analytical data are summarized in Table 3 and shown on Figure 3.

Groundwater Chemical Analytical Results

Monitoring Well Groundwater Samples

Groundwater samples MW-1 through MW-4 and MW-7 through MW-9 were collected on December 6, 1999. The groundwater sample collected from MW-4 may have been collected from groundwater trapped in the bottom of the well casing, and therefore not representative of actual groundwater conditions. Approximately 0.82 feet of floating product was measured in Well MW-5. Wells MW-6 and MW-10 did not contain adequate groundwater for sample collection. Petroleum hydrocarbons were detected in all groundwater samples at concentrations ranging from not detected to 41,000 ppb (MW-3) of TPHg, not detected to 3,200 ppb (MW-3) of benzene, not detected to 4,200 ppb (MW-3) of TPHd, and not detected to 4,400 ppb (MW-2B) of MTBE. TPHg and TPHd concentrations detected also contained discrete peaks and unidentified hydrocarbons outside of normal TPHg and TPHd parameters. In addition, groundwater sample MW-9 was reported as not detected for oxygenate compounds except for 2.7 ppb of MTBE. See Table 1 for specific notes and explanations. Groundwater analytical data are illustrated on Figure 6.

Grab Groundwater Samples

Grab groundwater sample G-1, collected from a perched groundwater zone at 55 feet bgs in boring MW-9, was reported as not detected at elevated detection limits for TPHg and BTEX, and 88 and 66 ppb of MTBE by EPA Methods 8020 and 8260, respectively.

A grab groundwater sample collected from well boring MW-10 at 90 feet bgs was reported as not detected for TPHg and benzene, and contained 28 and 34 ppb of MTBE by EPA Methods 8020 and 8260, respectively. A Hydropunch groundwater sample collected from boring MW-10 at 95 feet bgs was reported as not detected at an elevated detection limit for benzene, and contained 230 ppb of TPHg, and 52 and 54 ppb of MTBE by EPA Methods 8020 and 8260, respectively.

A grab groundwater sample collected from boring B-13 at 128.5 feet bgs contained 150 ppb of TPHg, 17 ppb of benzene, and 2.7 and 3.5 ppb of MTBE by EPA Methods 8020 and 8260, respectively. A Hydropunch groundwater sample collected from boring B-13 at 133 feet bgs contained 620 ppb of TPHg, 53 ppb of benzene, and 26.9 and 3.7 ppb of MTBE by EPA Methods 8020 and 8260, respectively. No grab or Hydropunch groundwater samples were collected above 128.5 feet bgs due to insufficient groundwater. Grab groundwater sample chemical analytical data are summarized in Table 2. These data were used to construct the attached groundwater concentration map (Figure 7).

Stockpile Chemical Analytical Results

Soil stockpile sample TS-1(comp) was reported as not detected for TPHg and BTEX, and contained allowable concentrations of total lead. Soil stockpile sample TS-2 (comp) was reported as not detected for MTBE and STLC lead, and contained 25 ppm of TPHg, 0.011 ppm of benzene, 10 ppm of TPHd, 21 ppm of TPHo, 51 ppm of total lead. Sample analytical data are summarized in Table 3.

RBCA Sample Results

Two soil samples (MW-10-3.5 and MW-10-13) were collected at 3.5 and 13 feet bgs, respectively from well boring MW-10, and analyzed for specific physical parameters. These data were collected for the possible future use in a RBCA evaluation. The PTS Laboratories, Inc. analytical report is included in Appendix E.

WASTE DISPOSAL

Approximately 116 gallons of waste water generated by cleaning the drilling equipment and well development procedures were removed from the site by GR, and transported to the Tosco Refinery in Rodeo, California, for treatment. A total of 9.81 tons of soil (drill cuttings) were removed from the site by Denbeste Transportation, Inc. of Windsor, California and transported to the Forward Incorporated facility in Manteca, California for disposal. A copy of the Forward disposal confirmation forms are included in Appendix G.

DISCUSSION

The purpose of this investigation was to collect additional site data to better understand the geology, potential migratory pathways, and determine whether petroleum hydrocarbons are present below the first regional aquifer through the installation of soil boring B-13. In addition, monitoring wells MW-9 and MW-10 were installed down- and cross-gradient of the site to delineate the dissolved hydrocarbons.

Geology and soil analytical data for soil boring B-13 resembles data previously derived from soil boring B-11 and well boring MW-2B. The highest concentrations of petroleum hydrocarbons in soil were encountered at 28 feet bgs (14,000 ppm of TPHg and 100 ppm of benzene). Soil samples collected below 85 feet bgs were reported as not detected for all petroleum hydrocarbons. Although groundwater-saturated soils were encountered at approximately 25, 66, 93, and 106 feet bgs, first sampleable groundwater was not encountered until 127 feet bgs. Grab and Hydropunch groundwater samples were collected at 128.5 and 133 feet bgs and contained detectable concentrations of petroleum hydrocarbons.

No petroleum hydrocarbons were detected in the soil samples collected from downgradient well boring MW-9. A perched zone grab groundwater sample collected at 55 feet bgs was reported as not

detected at an elevated detection limit for TPHg and BTEX and contained 88 and 66 ppb of MTBE by EPA Methods 8020 and 8260, respectively. The groundwater sample for MW-9 collected during the recent quarterly monitoring and sampling event was reported as not detected for TPHg and BTEX and contained 3.0 and 2.7 ppb of MTBE by EPA Methods 8020 and 8260, respectively. The screened interval for well MW-9 is from 55 to 75 feet bgs. Depth to groundwater in well MW-9 has ranged from 73.90 to 74.50 feet below TOC.

Lithology encountered in well boring MW-10 resembles lithology previously encountered in soil boring B-12. Petroleum hydrocarbon concentrations were only detected in soil samples from B-13 at depths of 38 and 56 feet bgs. The sample collected at 38 feet bgs contained 9.7 ppm of TPHg and 0.035 ppm of benzene and the sample collected at 56 feet bgs contained 240 ppm of TPHg, 0.71 ppm of benzene, and 1.2 ppm of MTBE. The grab groundwater sample collected at 90 feet bgs was reported as not detected for TPHg and benzene, and contained 28 and 34 ppb of MTBE by EPA Methods 8020 and 8260, respectively. The subsequent Hydropunch groundwater sample collected at 95 feet bgs was reported as not detected for benzene and contained 230 ppb of TPHg and 52 ppb (EPA 8020) and 54 ppb (EPA 8260) of MTBE. A Hydropunch sample was attempted at 100 feet bgs, but was not successful. Upon construction of well MW-10, groundwater was measured at approximately 90.55 feet bgs. No groundwater was detected in well MW-10 on November 29, 1999 during planned well development activities.

Geologic and hydraulic data generated during this investigation suggest the hydrogeologic conditions responsible for the elevated or perched water table identified in wells MW-5 MW-7, MW-8 and MW-9 as possibly a result of the discontinuous nature of the alluvial fan deposit or some small off-set or displacement of the soils that underlies the site (see cross-sections on Figures 3 and 4). Physical evidence of a possible fault or displacement feature still has not been identified and is suggested based on the cross-section interpretation.

Groundwater data from the grab/Hydropunch and quarterly groundwater samples indicate that petroleum hydrocarbons are present in groundwater at low concentrations down- and cross-gradient (north and northeast) of the site. The dissolved groundwater is predominantly defined downgradient. The vertical extent is most complex, given the imbricated potentiometric surface demonstrated at the site. First sampleable groundwater in boring B-13, located in the "displaced zone", was at 128.5 feet bgs. This is approximately 40 feet deeper than MW-3, which is located 40 feet away from B-13. The groundwater samples collected from B-13 contained very low concentrations of TPHg, benzene, and MTBE.

DISTRIBUTION

GR recommends that a copy of this report be forwarded to Mr. Chuck Headlee of the California Regional Water Quality Control Board, San Francisco Bay Region at 1515 Clay Street Suite 1400, Oakland, California 94612 and Mr. Scott Seery of the Alameda County Health Care Services Agency at 1131 Harbor Bay Parkway, 2nd Floor, Alameda, California 94502.

REFERENCES

Alameda County Flood Control and Water Conservation District, 1993, Fall 1993 Groundwater Contour Map Report, dated December 17, 1993.

Amador-Livermore Valley Historical Society, 1994, Conversation with employee and mailed photocopy of site with history of on-site warehouse.

Applied GeoSystems, 1987, Subsurface Environmental Investigation No. 87065-1, dated July 14, 1987.

Applied GeoSystems, 1987a, Supplemental Subsurface Environmental Investigation No. 87086-1, dated September 9, 1987.

Applied GeoSystems, 1987b, Supplemental Subsurface Environmental Investigation No. 87086-3, dated late 1987 or early 1988.

Virgil Chavez Land Surveying, 1998, Survey Report dated August 31, 1998.

Diblee, T. W. Jr., 1980, Preliminary Geological Map of the Livermore Quadrangle, Alameda and Contra Costa Counties, California: United States Geologic Survey Open File Report 80-533B.

Entrix, Inc., 1997, Forensic Geochemical Analysis of Free Product from MW-5, UNOCAL SS# 7376, Pleasanton, California: Project 351301 dated December 12, 1997.

Enviros, 1995, Phase I Environmental Site Assessment dated February 24, 1995.

Gettler-Ryan Inc., 1999, Well Installation and Soil Boring Report at Tosco 76 Branded Facility No. 7376, 4191 First Street, Pleasanton, California: Report No. 140107.02-3, dated March 4, 1999.

Gettler-Ryan Inc., 1999a, Third Quarter 1999 Groundwater Monitoring and Sampling Report for Tosco 76 Branded Facility No. 7376, 4191 First Street, Pleasanton, California: Job #180075, dated October 20, 1999.

Gettler-Ryan Inc., 1999b, Work Plan For a Subsurface Investigation at Tosco 76 Branded Facility No. 7376, 4191 First Street, Pleasanton, California: Report No. 140107.04-1, dated May 28, 1999.

Helley, E.J. and Lajoie, K.R. et.al., 1979, Flatland Deposits of the San Francisco Bay Region, California, Their Geology and Engineering Properties, and Their Importance to Comprehensive Planning: United States Geologic Survey Professional Paper 943.

Kaprealian Engineering Incorporated, 1994, Soil Sampling Investigation at Unocal Service Station No. 7376, 4191 First Street, Pleasanton, California: Report No. KEI-J94-0903.R1 dated October 21, 1994.

Kaprealian Engineering Incorporated, 1995, Continuing Groundwater Investigation at Unocal Service Station No. 7376, 4191 First Street, Pleasanton, California: Report No. KEI-P94-0903.R3 dated April 27, 1995.

Kaprealian Engineering Incorporated, 1996, Continuing Groundwater Investigation at Unocal Service Station No. 7376, 4191 First Street, Pleasanton, California: Report No. KEI-P94-0903.R5 dated November 4, 1996.

Pleasanton Fire Department, 1988, Correspondence dated January 29, 1988.

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #7376

4191 First Street

Pleasanton, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH(D) (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-1	12/08/87[1]	--	--	--	2,100[2]	50[3]	58	8.0	ND	10	--
366.99	12/07/94	81.04	285.95	0.00	--	ND	ND	ND	ND	ND	--
	03/01/95	80.09	286.90	0.00	120	ND	ND	1.1	ND	1.3	--
	06/01/95	77.53	289.46	0.00	54[5]	130	1.0	2.9	0.79	4.5	--
	09/06/95	79.00	287.99	0.00	690	ND	ND	ND	ND	ND	--[6]
	12/12/95	77.55	289.44	0.00	190[5]	ND	ND	ND	ND	ND	--
	03/01/96	75.09	291.90	0.00	56	ND	ND	ND	ND	ND	370
	06/15/96	75.07	291.92	0.00	ND	ND	ND	ND	ND	ND	270
	09/18/96	79.90	287.09	0.00	130[5]	ND	ND	ND	ND	ND	590
	12/21/96	78.96	288.03	0.00	ND	ND	ND	ND	ND	ND	150
	03/07/97	71.49	295.50	0.00	ND	ND	ND	ND	ND	ND	220
	06/27/97	80.05	286.94	0.00	ND	ND	ND	ND	ND	ND	17
	09/29/97	80.04	286.95	0.00	ND	ND	ND	ND	ND	ND	24
	12/15/97	80.07	286.92	0.00	ND	ND	ND	ND	ND	ND	25
	03/16/98	71.00	295.99	0.00	ND	ND	ND	0.52	ND	0.71	190
366.98	06/26/98	79.29	287.69	0.00	ND	59[13]	0.90	ND	ND	ND	570
	08/18/98	79.93	287.05	0.00	--	--	--	--	--	--	--
	09/22/98	79.99	286.99	0.00	240[20]	ND	ND	ND	ND	ND	170
	12/15/98	80.02	286.96	0.00	ND	ND	ND	ND	ND	ND	63
	12/23/98	80.02	286.96	0.00	--	--	--	--	--	--	--
	03/15/99	78.95	288.03	0.00	67[24]	ND[11]	ND[11]	ND[11]	ND[11]	ND[11]	520
	03/23/99	78.69	288.29	0.00	--	--	--	--	--	--	--
	06/07/99	79.82	287.16	0.00	ND	ND	ND	ND	ND	ND	310
	09/03/99	79.74	287.24	0.00	76[19]	ND	ND	ND	ND	ND	67/55.2[27]
	12/06/99	**79.74**	**287.24**	**0.00**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**120**
MW-2	12/08/87				620[2]	1,800[3]	910	800	260	1,200	--
	12/07/94	DAMAGED	--	--	--	--	--	--	--	--	--
	02/07/95	DESTROYED	--	--	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #7376

4191 First Street

Pleasanton, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH(D) (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-2B											
365.05	03/01/95	80.80	284.25	0.00	320	ND	ND	ND	ND	ND	--
	06/01/95	75.69	289.36	0.00	280	350	19	5.8	ND	7.7	--
	09/06/95	77.54	287.51	0.00	ND	ND	90	ND	ND	ND	--[6]
	12/12/95	75.96	289.09	0.00	850[4]	1,200	630	ND	15	57	--[7]
	03/01/96	73.27	291.78	0.00	870[4]	1,000	620	ND	ND	5.3	4,300
	06/15/96	73.21	291.84	0.00	420	910	350	ND	ND	ND	3,700
	09/18/96	81.08	283.97	0.00	600	1,200	95	ND	ND	ND	5,200
	12/21/96	77.35	287.70	0.00	470	330[8]	57	ND	ND	ND	2,900
	03/07/97	69.67	295.38	Sheen	870[4]	190	28	0.64	ND	1.5	4,300
	06/27/97	82.40	282.65	0.00	680[4]	98	3.4	1.0	0.53	ND	3,100
	09/29/97	82.72	282.33	0.00	430	ND	ND	ND	ND	ND	3,000
	12/15/97	82.57	282.48	0.00	490	54[9]	ND	ND	ND	ND	4,100
	03/16/98	69.13	295.92	Sheen	4,000[10]	ND[11]	17	ND[11]	ND[11]	ND[11]	4,400
365.05	06/26/98	77.78	287.27	0.00	790[14]	ND	ND	ND	ND	ND	4,000
	08/18/98	83.99	281.06	0.00	--	--	--	--	--	--	--
	09/22/98	83.89	281.16	0.00	930[20]	ND[11]	ND[11]	ND[11]	ND[11]	21	4,600
	12/15/98	82.84	282.21	0.00	600	ND	ND	ND	ND	ND	5,100
	12/23/98	82.55	282.50	0.00	--	--	--	--	--	--	--
	03/15/99	77.31	287.74	0.00	390[25]	ND[11]	ND[11]	ND[11]	ND[11]	ND[11]	4,300/4,800[27]
	03/23/99	77.06	287.99	0.00	--	--	--	--	--	--	--
	06/07/99	82.96	282.09	0.00	770[25]	ND[11]	ND[11]	ND[11]	ND[11]	ND[11]	5,100
	09/03/99	84.16	280.89	0.00	870[20]	ND[11]	ND[11]	ND[11]	ND[11]	ND[11]	6,300/4,400[27]
	12/06/99	**84.41**	**280.64**	**0.00**	**850[32]**	**ND[11]**	**ND[11]**	**ND[11]**	**ND[11]**	**ND[11]**	**4,400**
MW-3	12/08/87	--	--	--	2,300[2]	24,000[3]	2,600	1,300	160	660	--
367.01	12/07/94	85.54	281.47	0.00	--	ND	ND	ND	ND	ND	--
	03/01/95	83.20	283.81	0.00	140[4]	ND	ND	1.1	ND	1.1	--
	06/01/95	77.60	289.41	0.00	140[5]	62	7.8	0.90	ND	1.6	--
	09/06/95	79.28	287.73	0.00	880[5]	4,100	380	490	130	710	--[6]
	12/12/95	77.73	289.28	0.00	3,100[4]	19,000	600	380	2,100	5,300	--[7]
	03/01/96	75.18	291.83	0.00	1,500[5]	3,400	950	3.2	1,900	290	59

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #7376

4191 First Street

Pleasanton, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH(D) (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-3	06/15/96	75.13	291.88	0.00	400[4]	780	190	8.8	3.8	4.0	630
(cont)	09/18/96	82.84	284.17	0.00	170	2,800	340	12	11	110	2,500
	12/21/96	79.29	287.72	0.00	64[4]	51	1.3	ND	ND	0.53	20
	03/07/97	71.58	295.43	0.00	570[4]	1,400	53	14	29	68	220
	06/27/97	83.27	283.74	0.00	ND	ND	ND	ND	ND	ND	27
	09/29/97	83.33	283.68	0.00	ND	ND	ND	ND	ND	ND	11
	12/15/97	83.35	283.66	0.00	ND	ND	ND	ND	ND	ND	19
	03/16/98	71.07	295.94	0.00	670[10]	130[12]	6.5	1.9	1.5	1.6	210
367.03	06/26/98	79.65	287.38	0.00	63[13]	400[15]	15	ND[11]	ND[11]	1.9	490
	08/18/98	83.29	283.74	0.00	--	--	--	--	--	--	--
	09/22/98	83.33	283.70	0.00	95[20]	ND	ND	ND	ND	ND	24
	12/15/98	83.29	283.74	0.00	ND	ND	ND	ND	ND	ND	18
	12/23/98	83.28	283.75	0.00	--	--	--	--	--	--	--
	03/15/99	79.19	287.84	0.00	3,500[26]	26,000	3,100	270	2,200	3,100	1,300
	03/23/99	78.92	288.11	0.00	--	--	--	--	--	--	--
	06/07/99	83.22	283.81	0.00	ND	ND	ND	ND	0.63	ND	29
	09/03/99	83.31	283.72	0.00	2,900[20]	23,000[30]	770	ND[11]	980	6,400	280/82.4[27]
	12/06/99	**83.41**	**283.62**	**0.00**	**4,200[20]**	**41,000[30]**	**3,200**	**3,500**	**1,300**	**8,300**	**ND[11]**
MW-4											
369.03	09/18/96	73.67	295.36	0.00	200	160	14	ND	ND	1.6	ND
	12/21/96	77.69	291.34	0.00	ND	ND	ND	ND	ND	ND	ND
	03/07/97	68.04	300.99	0.00	ND	ND	1.9	0.99	ND	1.5	ND
	06/27/97	79.06	289.97	0.00	ND	ND	ND	ND	ND	ND	ND
	09/29/97	85.83	283.20	0.00	ND	ND	ND	ND	ND	ND	ND
	12/15/97	87.26	281.77	0.00	ND	ND	ND	ND	ND	ND	ND
	03/16/98	75.09	293.94	0.00	ND	ND	ND	0.69	ND	0.82	ND
368.81	06/26/98	73.81	295.00	0.00	630[16]	100[13]	62	ND	ND	ND	ND
	08/18/98	78.75	290.06	0.00	--	--	--	--	--	--	--
	09/22/98	83.95	284.86	0.00	74[20]	ND	ND	ND	ND	ND	2.8
	12/15/98	85.41	283.40	0.00	ND	ND	ND	ND	ND	ND	ND
	12/23/98	84.95	283.86	0.00	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #7376

4191 First Street

Pleasanton, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH(D) (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-4	03/15/99	78.47	290.34	0.00	ND	ND	ND	ND	ND	ND	ND
(cont)	03/23/99	77.37	291.44	0.00	--	--	--	--	--	--	--
	06/07/99	76.60	292.21	0.00	ND	ND	ND	ND	ND	ND	ND
	09/03/99	87.23	281.58	0.00	66[19]	ND	ND	ND	ND	ND	ND/ND[27]
	12/06/99	**92.23**	**276.58**	**0.00**	**95[13]**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**
MW-5											
363.23	09/18/96	64.20	299.03	0.00	4,700[5]	36,000	6,700	410	730	6,500	4,100
	12/21/96	61.77	301.46	Sheen	4,700[4]	25,000	3,200	300	780	3,600	2,600
	03/07/97	56.30	306.93	Sheen	2,100[4]	14,000	1,300	120	410	1,200	1,700
	06/27/97	68.88	295.03**	0.90	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	09/29/97	69.47	294.02**	0.35	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	12/15/97	64.92	298.53**	0.30	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	03/16/98	49.63	313.67**	0.09	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
363.21	06/26/98	64.13	299.08	Sheen	230,000[17]	490[18]	6.3	2.8	4.2	5.1	10
	08/18/98	70.40	292.81**	0.005	--	--	--	--	--	--	--
	09/22/98	69.10	294.16**	0.06	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	12/15/98	68.84	294.50**	0.17	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	12/23/98	68.42	295.18**	0.50	--	--	--	--	--	--	--
	03/15/99	63.81	299.59**	0.25	--	--	--	--	--	--	--
	03/23/99	63.59	299.72**	0.13	--	--	--	--	--	--	--
	06/07/99	68.25	295.59**	0.82	4,700,000[26]	210,000	6,700	3,700	5,000	20,000	11,000/4,000[27]
	09/03/99	69.38	294.37**	0.70	NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT					--	--
	12/06/99	**70.02**	**293.82****	**0.82**	**NOT SAMPLED DUE TO THE PRESENCE OF FREE PRODUCT**					--	--
MW-6											
363.12	09/18/96	79.07	284.05	0.00	ND	160	5.4	ND	ND	ND	ND
	12/21/96	75.40	287.72	0.00	ND	300[8]	96	1.3	ND	1.7	21
	03/07/97	67.61	295.51	0.00	190[4]	1,800[8]	920	18	ND	31	290
	06/27/97	80.45	282.67	0.00	73[5]	ND	0.73	ND	ND	38	38
	09/29/97	86.02	277.10	0.00	ND	62[9]	ND	ND	ND	ND	43

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #7376

4191 First Street

Pleasanton, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH(D) (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-6	12/15/97	84.03	279.09	0.00	ND	78[9]	ND	ND	ND	ND	39
(cont)	03/16/98	67.15	295.97	0.00	100[10]	210[12]	36	2.5	ND	3.0	64
363.13	06/26/98	75.71	287.42	0.00	180[14]	530	300	8.3	2.8	8.7	81
	08/18/98	74.86	288.27	0.00	--	--	--	--	--	--	--
	09/22/98	UNABLE TO LOCATE		--	--	--	--	--	--	--	--
	12/15/98	UNABLE TO LOCATE		--	--	--	--	--	--	--	--
	12/23/98	80.80	282.33	0.00	--	120[23]	1.1	ND	ND	0.78	25
	01/23/99	80.68	282.45	0.00	ND	--	--	--	--	--	--
	03/15/99	75.29	287.84	0.00	71[24]	62[22]	1.4	ND	ND	ND	23
	03/23/99	75.03	288.10	0.00	--	--	--	--	--	--	--
	06/07/99	82.27	280.86	0.00	160[28]	ND	ND	ND	ND	ND	18
	09/03/99	87.49	275.64	0.00	INSUFFICIENT WATER TO SAMPLE			--	--	--	--
	12/06/99	**DRY**	--	--	--	--	--	--	--	--	--
MW-7											
355.97	06/26/98	--	--	--	--	--	--	--	--	--	--
	08/18/98	68.75	287.22	0.00	1,400[20]	4,000	1,900	48	160	ND[11]	1,700
	09/22/98	66.35	289.62	0.00	780[20]	3,200	1,100	ND	22	ND	1,500
	12/15/98	65.03	290.94	0.00	350[21]	1,900[22]	180	2.7	2.9	3.8	1,400
	12/23/98	64.82	291.15	0.00	--	--	--	--	--	--	--
	03/15/99	60.44	295.53	0.00	460[26]	2,700	1,100	ND[11]	30	16	1,400/970[27]
	03/23/99	60.43	295.54	0.00	--	--	--	--	--	--	--
	06/07/99	64.48	291.49	0.00	550[25]	2,600[29]	180	21	ND	13	1,200
	09/03/99	69.98	285.99	0.00	550[20]	870[30]	69	ND[11]	ND[11]	ND[11]	1,100/872[27]
	12/06/99	**70.18**	**285.79**	**0.00**	**220[20]**	**1,900[31]**	**350**	**ND[11]**	**ND[11]**	**ND[11]**	**1,100**
MW-8											
362.37	06/26/98	63.00	299.37	0.00	80[19]	ND	6.0	ND	ND	ND	150
	08/18/98	73.38	288.99	0.00	--	--	--	--	--	--	--
	09/22/98	70.89	291.48	0.00	120[20]	ND	ND	ND	ND	ND	9.5
	12/15/98	70.29	292.08	0.00	ND	ND	ND	ND	ND	ND	3.0

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #7376

4191 First Street

Pleasanton, California

Well ID/ TOC*	Date	DTW (ft.)	GWE (msl)	Product Thickness (ft.)	TPH(D) (ppb)	TPH(G) (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-8	12/23/98	70.03	292.34	0.00	--	--	--	--	--	--	--
(cont)	03/15/99	UNABLE TO LOCATE		--	--	--	--	--	--	--	--
361.83	03/23/99	64.86	296.97	0.00	60[24]	ND	ND	0.77	ND	0.96	190
	06/07/99	68.30	293.53	0.00	ND	ND	ND	ND	ND	ND	ND
	09/03/99	73.92	287.91	0.00	130[19]	ND	ND	0.57	ND	ND	170/146[27]
	12/06/99	**74.98**	**286.85**	**0.00**	**160[19]**	**ND**	**ND**	**ND**	**ND**	**ND**	**150**
MW-9											
354.85	11/29/99	74.50	280.35	0.00	--	--	--	--	--	--	--
	12/06/99	**74.35**	**280.50**	**0.00**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**3.0/2.7[27]**
MW-10											
362.62	11/29/99	DRY	--	--	--	--	--	--	--	--	--
	12/06/99	**DRY**	--	--	--	--	--	--	--	--	--
Trip Blank											
TB-LB	03/16/98	--	--	--	--	ND	ND	ND	ND	ND	ND
	06/26/98	--	--	--	--	ND	ND	ND	ND	ND	ND
	08/18/98	--	--	--	--	ND	ND	ND	ND	ND	ND
	09/22/98	--	--	--	--	ND	ND	ND	ND	ND	ND
	12/15/98	--	--	--	--	ND	ND	ND	ND	ND	ND
	12/23/98	--	--	--	--	ND	ND	ND	ND	ND	ND
	03/15/99	--	--	--	--	ND	ND	ND	ND	ND	ND
	03/23/99	--	--	--	--	ND	ND	ND	ND	ND	ND
	06/07/99	--	--	--	--	ND	ND	ND	ND	ND	ND
	09/03/99	--	--	--	--	ND	ND	ND	ND	ND	ND
	12/06/99	--	--	--	--	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #7376

4191 First Street

Pleasanton, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to March 16, 1998, were compiled from reports prepared by MPDS Services, Inc.

TOC = Top of Casing
DTW = Depth to Water
(ft.) = Feet
GWE = Groundwater Elevation
msl = Relative to mean sea level
TPH(G) = Total Petroleum Hydrocarbons as Gasoline

B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl tertiary butyl ether

ppb = Parts per billion
ND = Not Detected
-- = Not Measured/Not Analyzed

* TOC elevations have been surveyed relative to mean sea level (msl) per City of Pleasanton Benchmark V1, a brass disk on the north curb of Ray Street, approximately 200 feet northwest of the centerline of First Street (Elevation = 367.17 feet msl). On March 22, 1999, MW-8 was re-surveyed and on November 26, 1999, MW-9 and MW-10 were surveyed, the Benchmark was a cut "+" on a concrete transformer pad on the north side of the property to the northwest (Elevation = 353.92 feet, msl).

** Groundwater elevation corrected for the presence of free product; correction factor = [(TOC-DTW)+(Product Thickness x 0.75)].

1 1,2-Dichloroethene (1,2-DCE) was detected at a concentration of 18 ppb.
2 Reported as Total Extractable Hydrocarbons (TEH).
3 Reported as Total Petroleum Hydrocarbons (TPH).
4 Laboratory report indicates the hydrocarbons detected appeared to be a diesel and non-diesel mixture.
5 Laboratory report indicates the hydrocarbons detected did not appear to be diesel.
6 Laboratory has potentially identified the presence of MTBE at reportable levels in the groundwater sample collected from this well.
7 Laboratory has identified the presence of MTBE at a level above or equal to the taste and odor threshold of 40 ppb in the sample collected from this well.
8 Laboratory report indicates the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.
9 Laboratory report indicates the hydrocarbons detected did not appear to be gasoline.
10 Laboratory report indicates diesel and unidentified hydrocarbons >C16.
11 Detection limit raised. Refer to analytical reports.
12 Laboratory report indicates gasoline and unidentified hydrocarbons <C7.
13 Laboratory report indicates discrete peaks.
14 Laboratory report indicates diesel and unidentified hydrocarbons >C20.
15 Laboratory report indicates discrete peaks and unidentified hydrocarbons <C7.
16 Laboratory report indicates diesel and unidentified hydrocarbons <C15.
17 Laboratory report indicates diesel and unidentified hydrocarbons <C15 and >C20.
18 Laboratory report indicates gasoline and unidentified hydrocarbons >C8.
19 Laboratory report indicates unidentified hydrocarbons >C16.
20 Laboratory report indicates unidentified hydrocarbons C9-C24.
21 Laboratory report indicates diesel and unidentified hydrocarbons <C12.
22 Laboratory report indicates unidentified hydrocarbons C6-C12.
23 Laboratory report indicates unidentified hydrocarbons C6-C9.

Table 1

Groundwater Monitoring Data and Analytical Results

Tosco (Unocal) Service Station #7376

4191 First Street

Pleasanton, California

---

[24] Laboratory report indicates unidentified hydrocarbons >C14.

[25] Laboratory report indicates unidentified hydrocarbons >C10.

[26] Laboratory report indicates unidentified hydrocarbons >C9.

[27] MTBE by EPA Method 8260. Other oxygenate compounds were reported as not detected.

[28] Laboratory report indicates unidentified hydrocarbons >C15.

[29] Laboratory report indicates gasoline and unidentified hydrocarbons >C6.

[30] Laboratory report indicates gasoline C6-C12.

[31] Laboratory report gasoline C6-C12 + unidentified hydrocarbons <C6.

[32] Laboratory report indicates unidentified hydrocarbons C9-C40.

TABLE 2 - GRAB GROUNDWATER CHEMICAL ANALYTICAL DATA

Tosco (Unocal) Service Station No. 7376
4191 First Street
Pleasanton, California

Sample Location and ID	Sample Depth (feet)	Date Collected	TPHg (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl-benzene (ppb)	Xylenes (ppb)	MTBE by 8020/8260 (ppb)
Boring B-13								
B-13-128.5	128.5	11/23/99	150	17	13	7.6	35	2.7/3.5
B-13-133	133	11/23/99	620	53	43	30	140	6.9/3.7
Well Boring MW-9								
G-1	55	10/7/99	ND‘	ND‘	ND‘	ND‘	ND‘	88/66
Well Boring MW-10								
MW-10-90	90	11/21/99	ND	ND	ND	ND	1.1	28/34
MW-10-95	95	11/21/99	230	ND‘	ND‘	ND‘	4.6	52/64

EXPLANATION:

feet = feet below ground surface
ppb = parts per billion
ND = not detected

ANALYTICAL LABORATORY:

Sequoia Analytical (ELAP #1210)

ANALYTICAL METHODS:

TPHg = Total Petroleum Hydrocarbons as gasoline according to EPA Method 8015 Modified.
BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes according to EPA Method 8020.
MTBE = Methyl t-Butyl Ether according to EPA Methods 8020 and 8260.

‘ Elevated detection limit. See analytical report for limits.

TABLE 3 - SOIL CHEMICAL ANALYTICAL DATA

Tosco (Unocal) Service Station No. 7376

4191 First Street

Pleasanton, California

Sample Location and ID	Sample Depth (feet)	Date Collected	TPHg (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-benzene (ppm)	Xylenes (ppm)	MtBE (ppm)
Boring B-13								
B-13-7.5	7.5	11/22/99	93[1]	ND[2]	2.3	ND[2]	1.1	ND[2]
B-13-15.5	15.5	11/22/99	ND	ND	ND	ND	ND	ND
B-13-28	28	11/22/99	14000[1]	100	92	240	1200	ND[2]
B-13-38.5	38.5	11/22/99	65[1]	0.40	0.088	0.092	0.31	ND[2]
B-13-46	46	11/22/99	330[1]	6.7	ND[2]	7.0	21	ND[2]
B-13-51	51	11/22/99	72[1]	0.58	0.32	0.97	3.8	ND[2]
B-13-57	57	11/22/99	6.2[1]	0.67	0.30	0.068	0.24	0.18
B-13-63	63	11/22/99	2.0	0.38	0.22	0.013	0.16	ND
B-13-73.5	73.5	11/22/99	ND	0.0052	0.0075	ND	0.024	0.058
B-13-85.5	85.5	11/22/99	ND	ND	ND	ND	ND	ND
B-13-101.5	101.5	11/22/99	ND	ND	ND	ND	ND	ND
B-13-106	106	11/23/99	ND	ND	ND	ND	ND	ND
B-13-123.5	123.5	11/23/99	ND	ND	ND	ND	ND	ND
B-13-126	126	11/23/99	ND	ND	ND	ND	ND	ND
Well Boring MW-9								
MW-9-16	16	10/7/99	ND	ND	ND	ND	ND	ND
MW-9-30.5	30.5	10/7/99	ND	ND	ND	ND	ND	ND
MW-9-41	41	10/7/99	ND	ND	ND	ND	ND	ND
MW-9-46.5	46.5	10/7/99	ND	ND	ND	ND	ND	ND
MW-9-60.5	60.5	10/7/99	ND	ND	ND	ND	ND	ND
Well Boring MW-10								
MW-10-5.5	5.5	11/21/99	ND	ND	ND	ND	ND	ND
MW-10-16.5	16.5	11/21/99	ND	ND	ND	ND	ND	ND
MW-10-25.5	25.5	11/21/99	ND	ND	ND	ND	ND	ND
MW-10-38	38	11/21/99	9.7	0.035	0.034	0.062	0.11	ND[2]
MW-10-44	44	11/21/99	ND	ND	ND	ND	ND	ND
MW-10-56[6]	56	11/21/99	240[3]	0.71	0.75	2.2	0.65	1.2
MW-10-71	71	11/21/99	ND	ND	ND	ND	ND	ND

TABLE 3 - SOIL CHEMICAL ANALYTICAL DATA

Tosco (Unocal) Service Station No. 7376
4191 First Street
Pleasanton, California

Sample Location and ID	Sample Depth (feet)	Date Collected	TPHg (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-benzene (ppm)	Xylenes (ppm)	MtBE (ppm)
Well Boring MW-10 continued								
MW-10-82	82	11/21/99	ND	ND	ND	ND	ND	ND
MW-10-90.5	90.5	11/21/99	ND	ND	ND	ND	ND	ND
Stockpile								
TS-1 comp[4]	--	10/7/99	ND	ND	ND	ND	ND	NA
TS-2 comp[5]	--	11/23/99	25[3]	0.011	0.052	0.14	0.66	ND

ANALYTICAL METHODS:

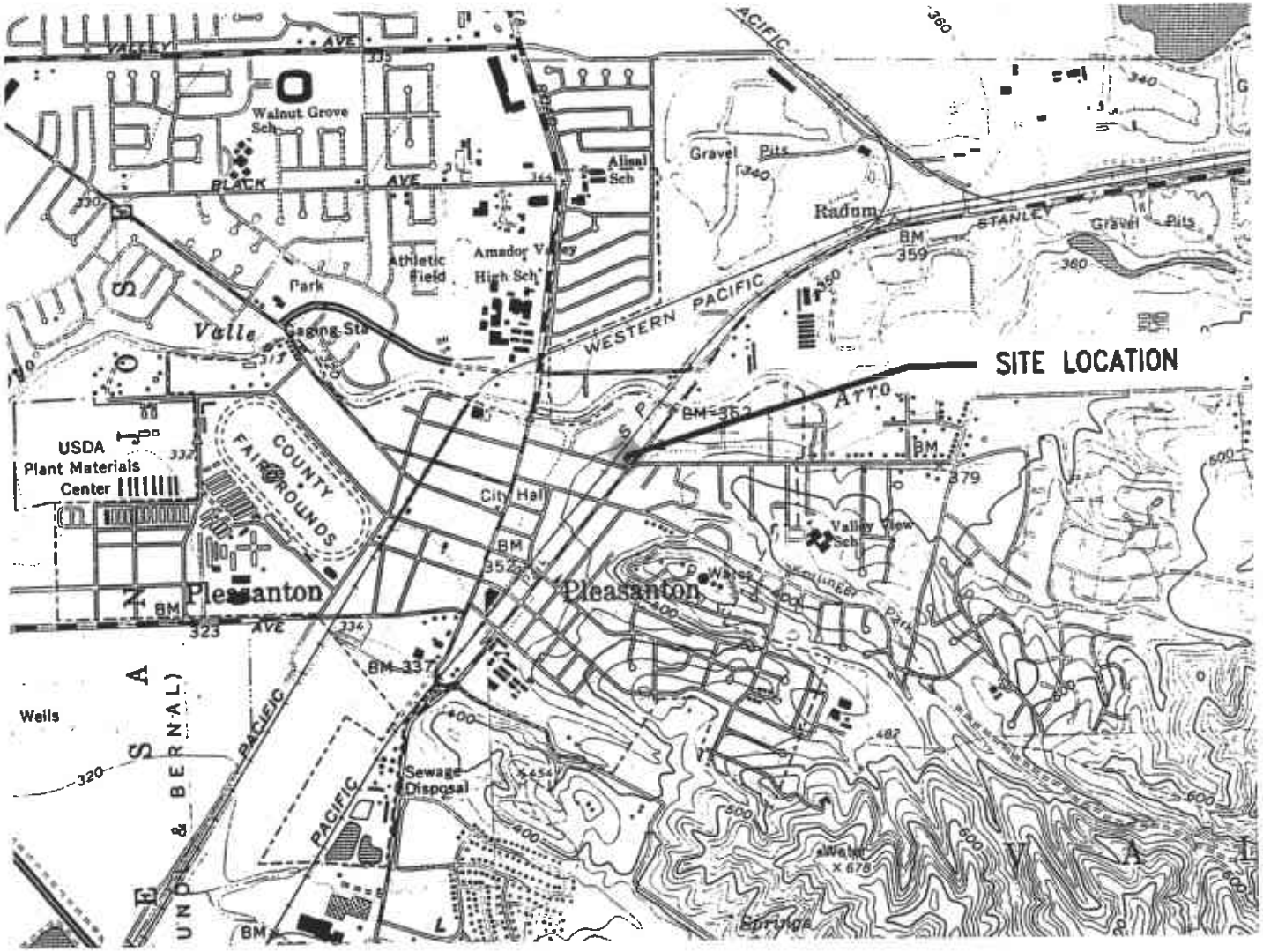
TPHg = Total Petroleum Hydrocarbons as gasoline according to EPA Method 8015 Modified.
BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes according to EPA Method 8020.
MtBE = Methyl t-Butyl Ether according to EPA Method 8020.

ANALYTICAL LABORATORY:

Columbia Analytical Services(ELAP #1426)

EXPLANATION:

feet = feet below ground surface
ppm = parts per million
ND = Not Detected
NA=not analyzed
[1] = Chromatograph pattern indicates gasoline C6-C12 and unidentified hydrocarbons >C10.
[2] = Elevated detection limit. See analytical report for limits.
[3] = Chromatograph pattern indicates gasoline C6-C12 and unidentified hydrocarbons C6-C12.
[4] = The sample was also analyzed for total lead (34 ppm), reactivity (ND), corrosivity (7.93 pH) and ignitability (>100 degrees celsius).
[5] = This sample was also analyzed for TPH diesel (10 ppm), TPH motor oil (21ppm), total lead (51 ppm), STLC lead (ND), reactivity (ND), corrosivity (8.10 pH), and ignitability (>100 degrees celsius).
[6] = The sample was also reported as ND for MtBE by EPA Method 8260 which was analyzed after the two week hold time had passed.



Base Map: USGS Topographic Map

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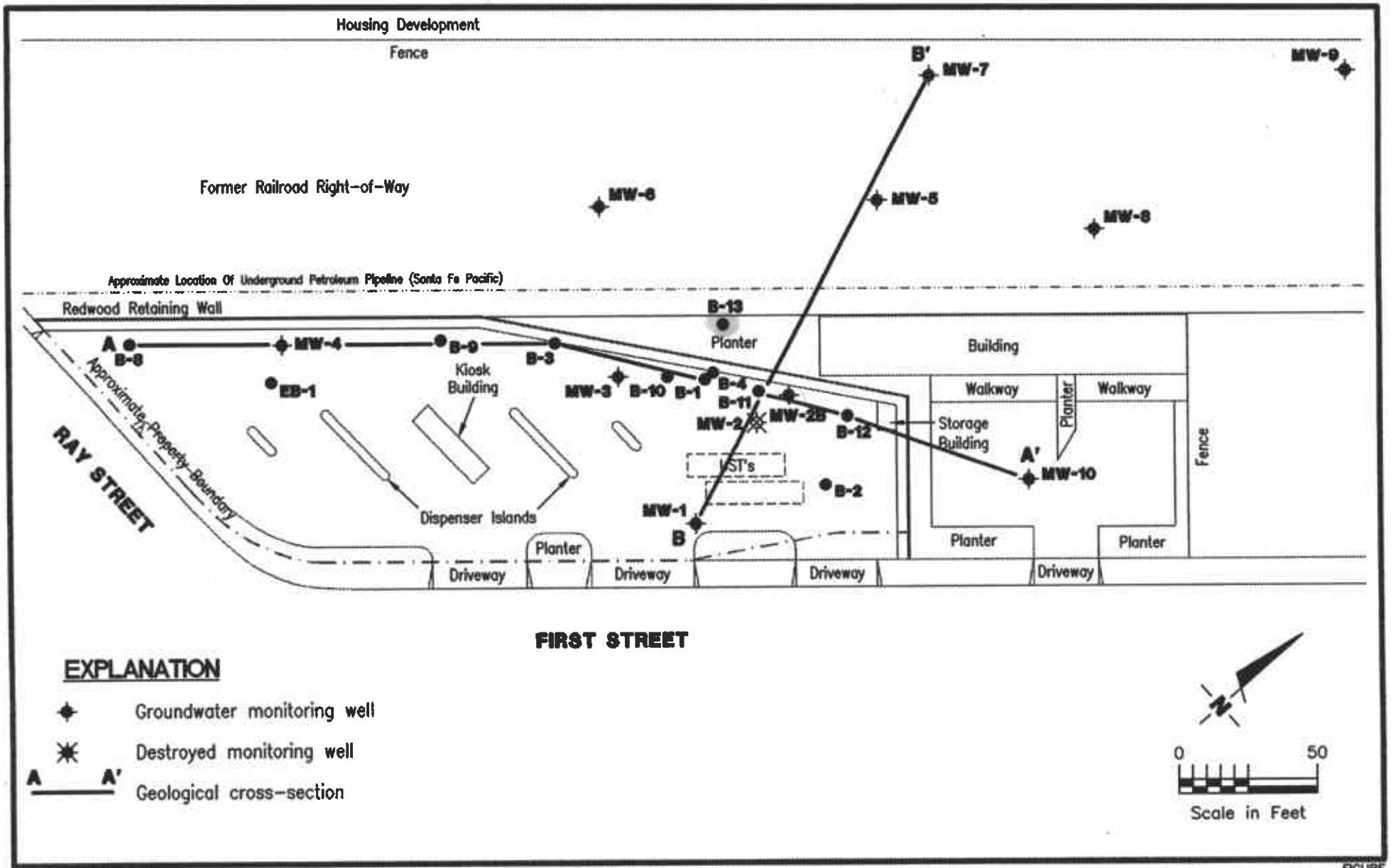
VICINITY MAP
Tosco (Unocal) Service Station No. 7376
4191 First Street
Pleasanton, California

FIGURE **1**

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
140107		February, 1999	



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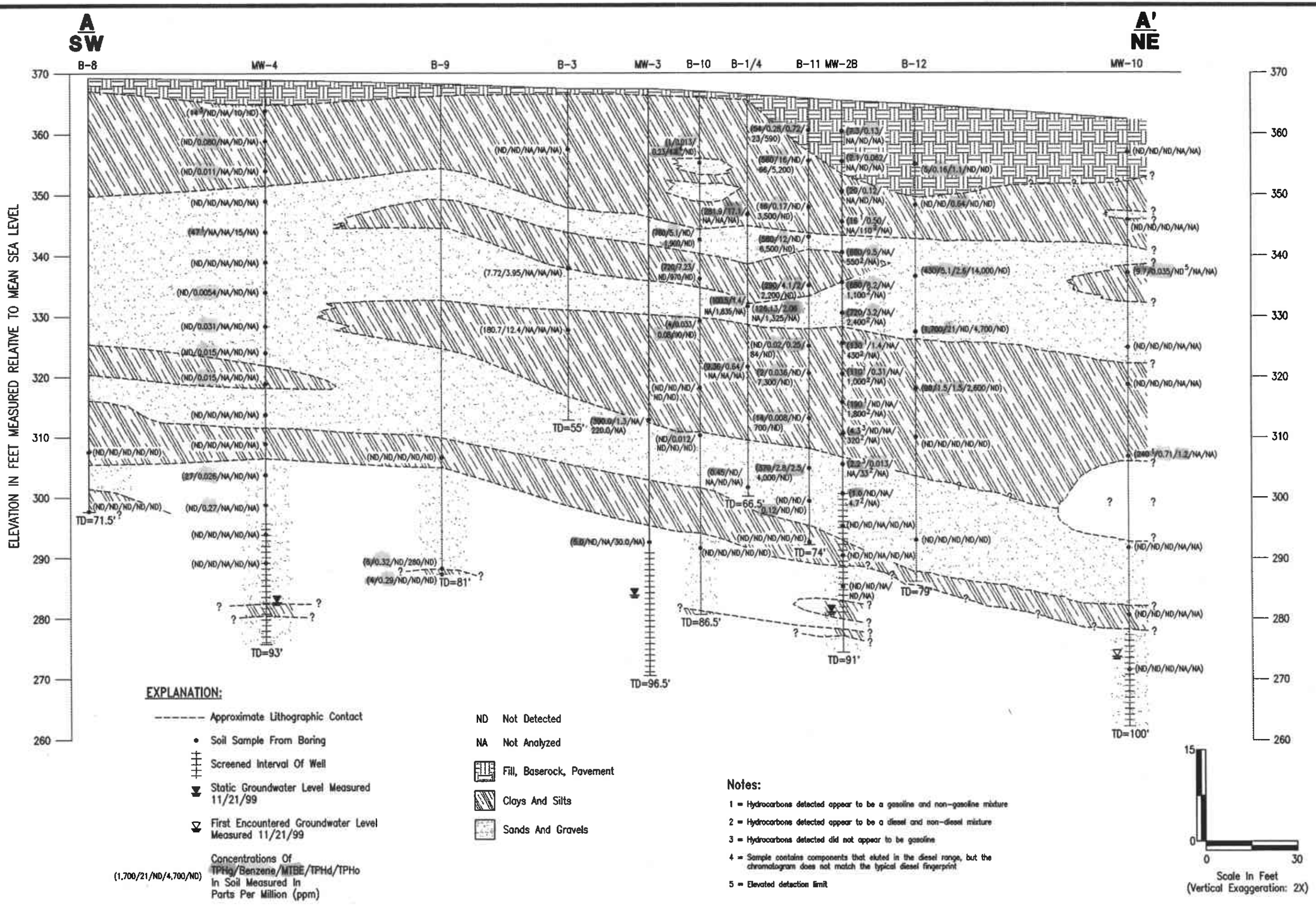
SITE PLAN
Tosco (Unocal) Service Station No. 7376
4191 First Street
Pleasanton, California

FIGURE
2

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
140107.04		12/99	



EXPLANATION:

------ Approximate Lithographic Contact

● Soil Sample From Boring

╪ Screened Interval Of Well

▼ Static Groundwater Level Measured 11/21/99

▽ First Encountered Groundwater Level Measured 11/21/99

(1,700/21/ND/4,700/ND) Concentrations Of TPHg/Benzene/MTBE/TPHd/TPHo In Soil Measured In Parts Per Million (ppm)

ND Not Detected

NA Not Analyzed

▦ Fill, Baserock, Pavement

▨ Clays And Silts

░ Sands And Gravels

Notes:

1 = Hydrocarbons detected appear to be a gasoline and non-gasoline mixture

2 = Hydrocarbons detected appear to be a diesel and non-diesel mixture

3 = Hydrocarbons detected did not appear to be gasoline

4 = Sample contains components that eluted in the diesel range, but the chromatogram does not match the typical diesel fingerprint

5 = Elevated detection limit

Scale In Feet
(Vertical Exaggeration: 2X)

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GENERALIZED GEOLOGIC CROSS-SECTION B-B'
Tosco (Unocal) Service Station No. 7376
4191 1st Street
Pleasanton, California

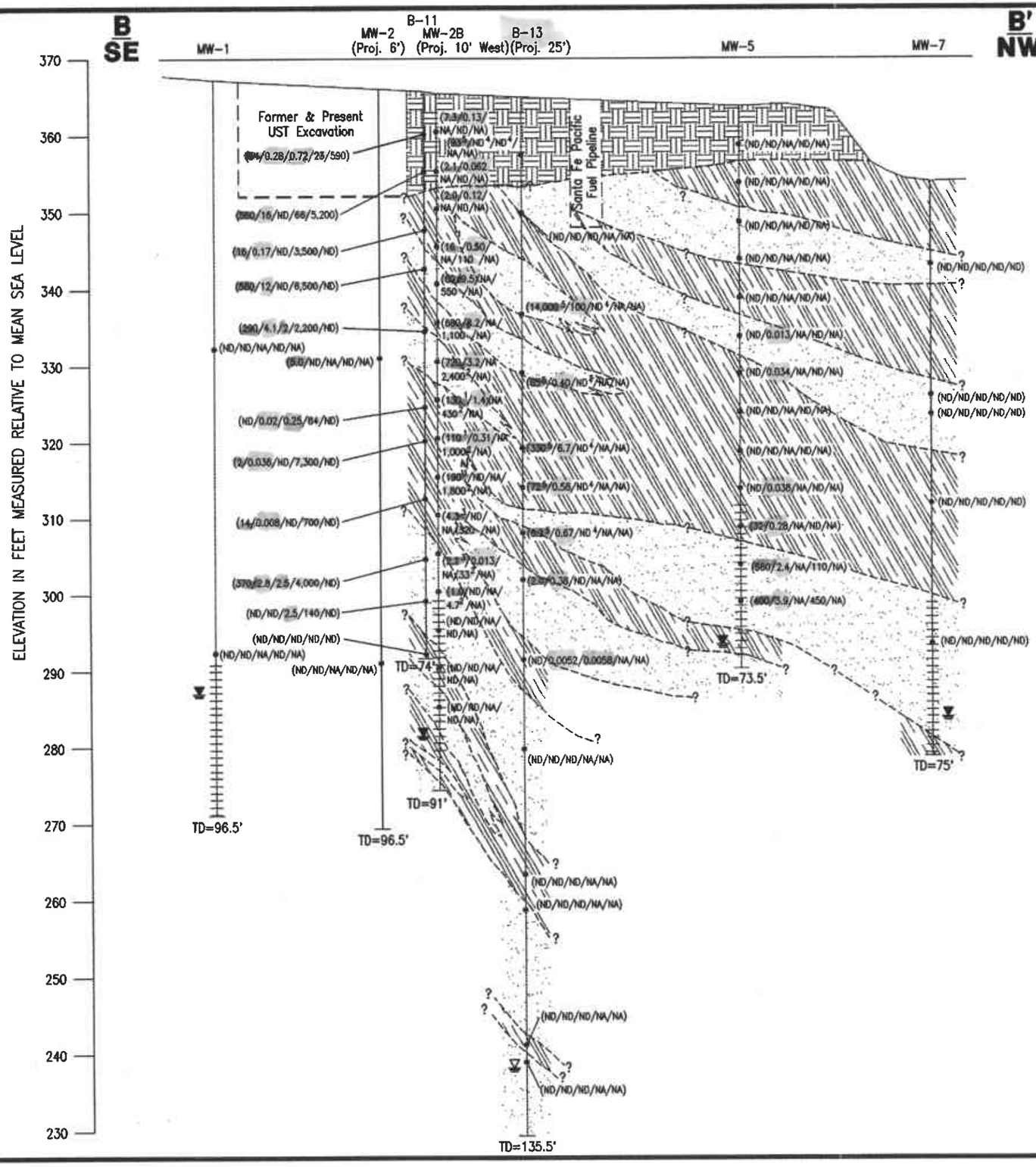
FIGURE 3

JOB NUMBER 140107.04

REVIEWED BY

DATE 10/98

REVISED DATE 5/00



EXPLANATION:

- Approximate Lithographic Contact
- Soil Sample From Boring
- Screened Interval Of Well
- Static Groundwater Level Measured 11/22–23/99
- First Encountered Groundwater Level Measured 11/22–23/99
- (ND/0.013/NA/ND/NA) Concentrations Of TPHg/Benzene/MTBE/TPHd/TPHo In Soil Measured In Parts Per Million (ppm)
- ND Not Detected
- NA Not Analyzed
- Fill, Baserock, Pavement
- Clays And Silts
- Sands And Gravels

Notes:

1 = Hydrocarbons detected appear to be a gasoline and non-gasoline mixture

2 = Hydrocarbons detected appear to be a diesel and non-diesel mixture

3 = Hydrocarbons detected did not appear to be gasoline

4 = Elevated detection limit

5 = Hydro detected indicates gasoline C6–C12 and unidentified hydrocarbon >C10

15
0
0 30
Scale In Feet
(Vertical Exaggeration: 2X)

FIGURE 4

GENERALIZED GEOLOGIC CROSS-SECTION B–B'
Tosco (Unocal) Service Station No. 7376
4191 1st Street
Pleasanton, California

REVISED DATE 5/00

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6747 Sierra Ct., Suite J
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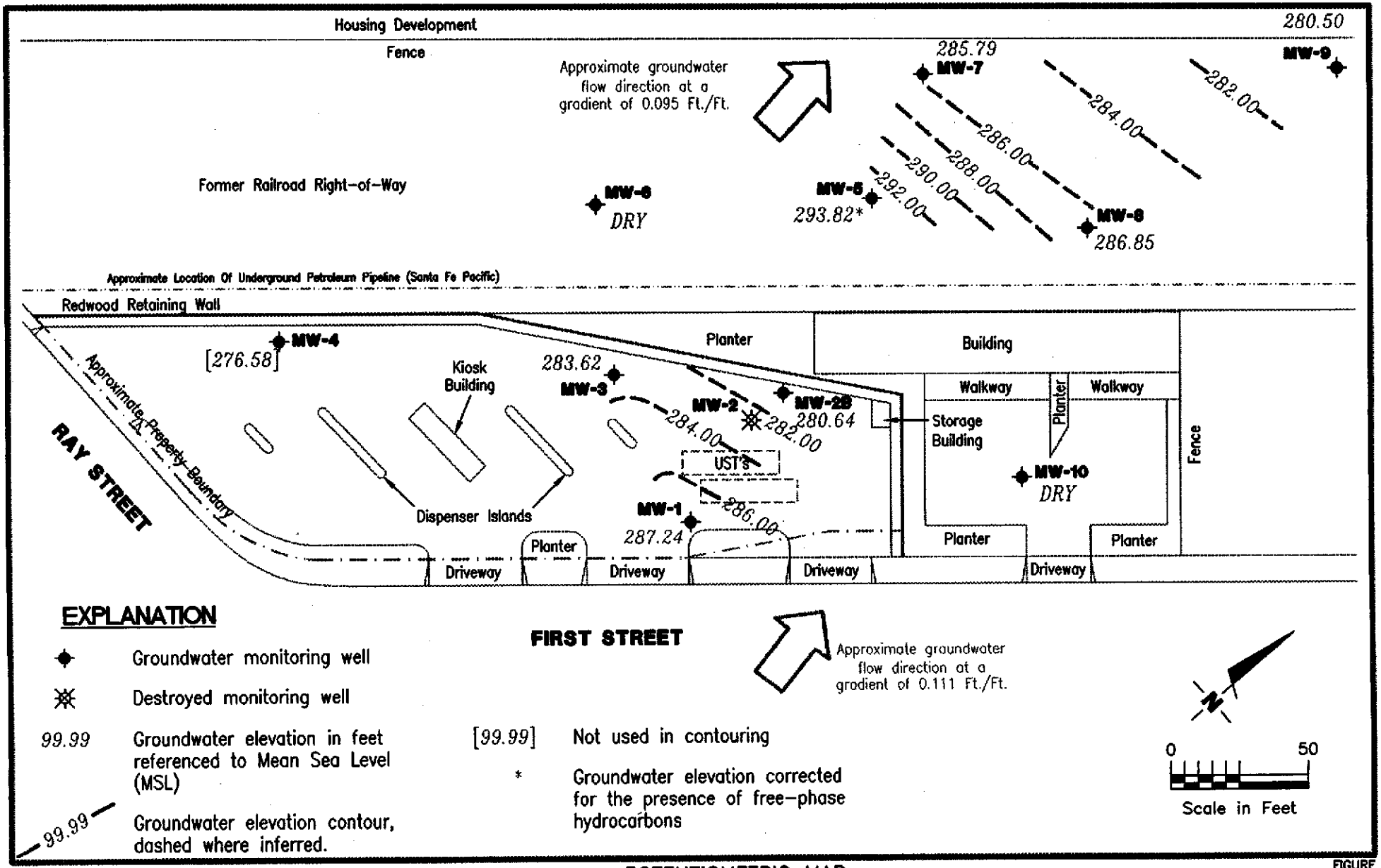
(925) 551-7555

DATE 10/98

REVIEWED BY

JOB NUMBER 140107.04



EXPLANATION

- ✦ Groundwater monitoring well
- ✳ Destroyed monitoring well
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level (MSL)
- 99.99 Groundwater elevation contour, dashed where inferred.
- [99.99] Not used in contouring
- * Groundwater elevation corrected for the presence of free-phase hydrocarbons

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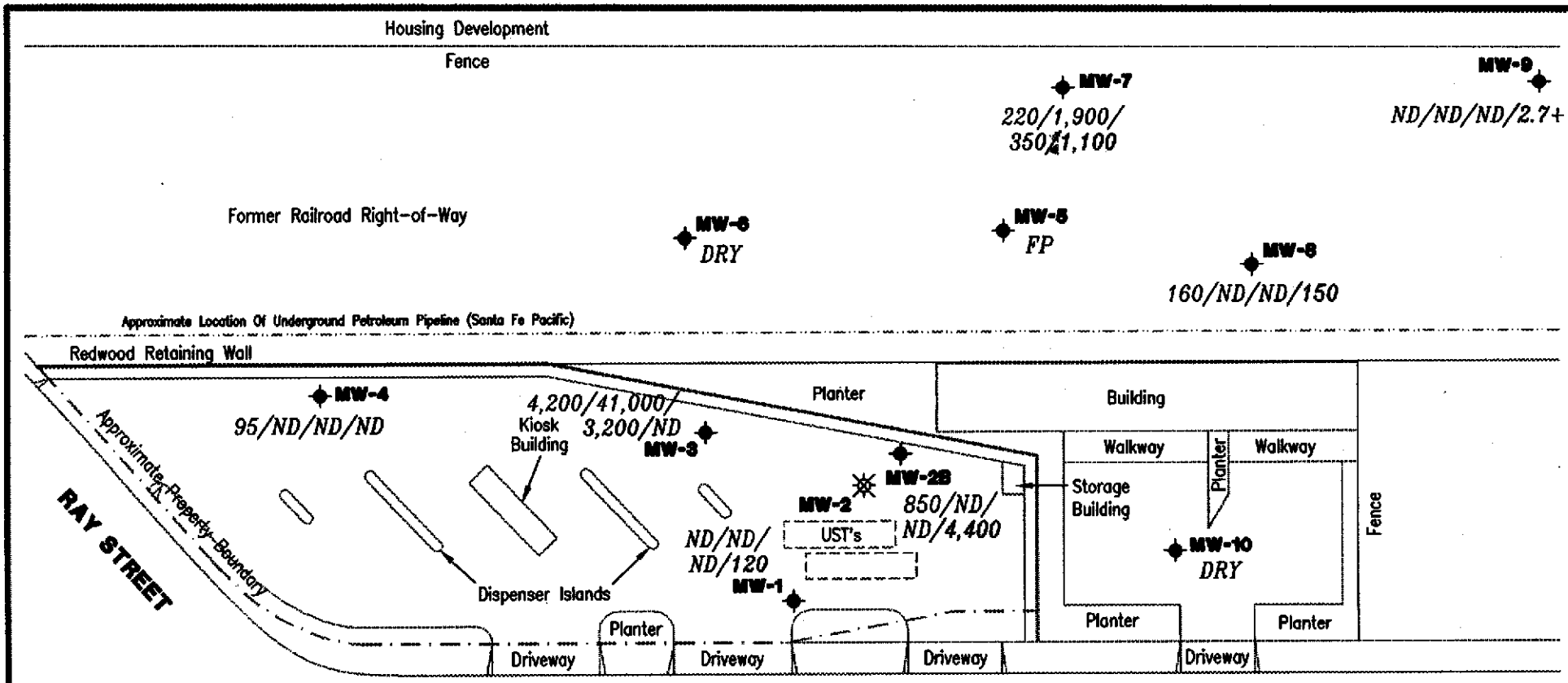
POTENTIOMETRIC MAP
Tosco (Unocal) Service Station No. 7376
4191 First Street
Pleasanton, California

FIGURE
5

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
140107.04		12/99	5/00



EXPLANATION

- Groundwater monitoring well
- Destroyed monitoring well
- *A/B/C/D* — TPH(D) (Total Petroleum Hydrocarbons as Diesel)/TPH(G) (Total Petroleum Hydrocarbons as Gasoline)/Benzene/MTBE concentrations in ppb
- *ND* — Not Detected
- *FP* — Free Product
- \+ — MTBE by EPA Method 8260

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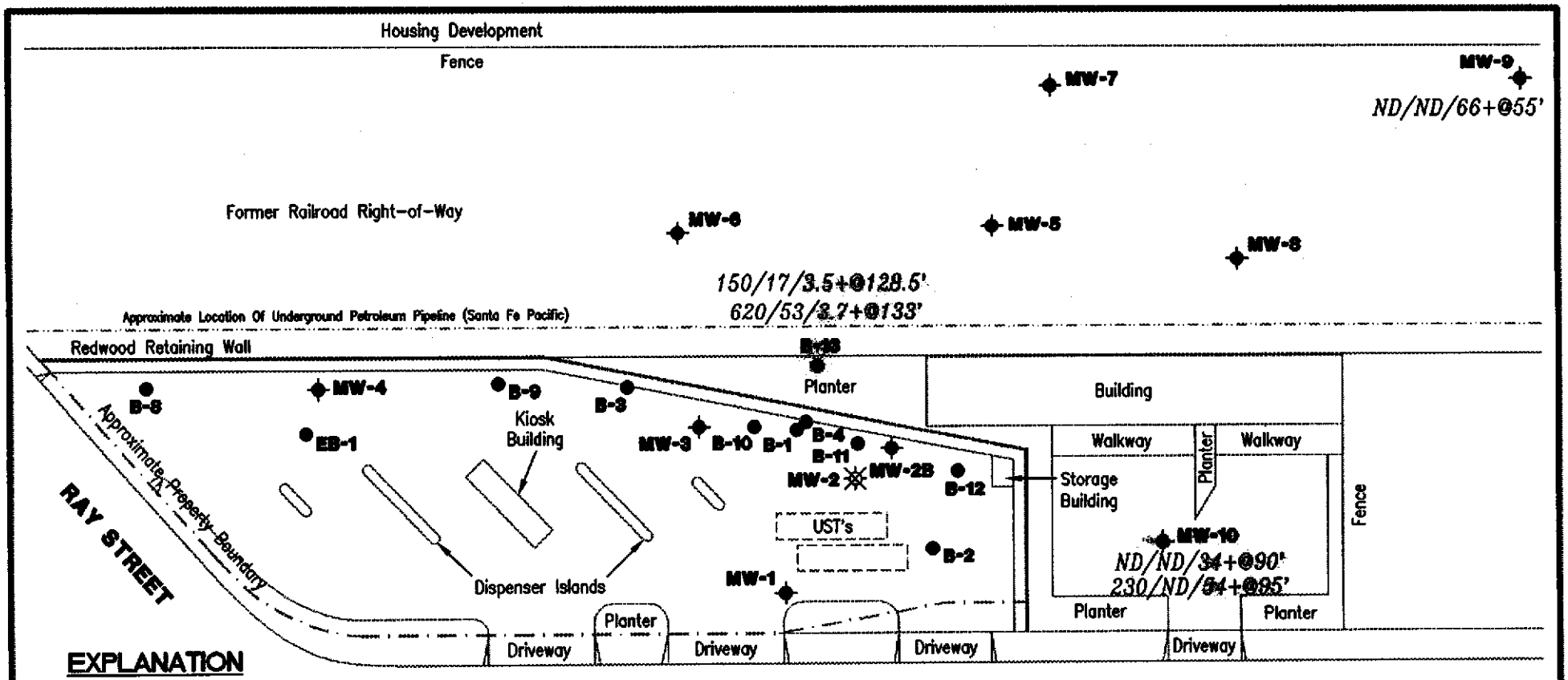
CONCENTRATION MAP
Tosco (Unocal) Service Station No. 7376
4191 First Street
Pleasanton, California

FIGURE
6

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
140107.04		December 6, 1999	



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GRAB GROUNDWATER CONCENTRATION MAP
Tosco (Unocal) Service Station No. 7376
4191 First Street
Pleasanton, California

FIGURE
7

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
140107.04		12/99	

APPENDIX A

Historical Analytical Data

KEI-P94-0903.R5
November 4, 1996

TABLE 3

SUMMARY OF LABORATORY ANALYSES
SOIL

Date	Sample Number	TPH as Diesel	TPH as Gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes
2/06/95	MW2B(5)	ND	7.3	0.13	0.048	0.090	0.63
	MW2B(10)	ND	2.1	0.062	0.020	0.0078	0.11
	MW2B(15)	ND	2.0	0.12	0.0076	0.0074	0.02
	MW2B(20)	110*	16♦	0.50	0.042	0.12	0.18
	MW2B(25)	550*	660	9.5	2.6	4.1	11
	MW2B(30)	1,100*	680	8.2	1.1	6.1	11
	MW2B(35)	2,400*	720	3.2	1.1	4.6	15
	MW2B(40)	430*	130♦	1.4	0.45	1.6	5.0
	MW2B(45)	1,000*	110♦	0.31	0.083	0.63	1.7
	MW2B(50)	1,800*	190♦	ND	0.68	0.33	2.2
	MW2B(55)	320*	4.3♦♦	ND	ND	0.013	0.056
	MW2B(60)	33*	2.2♦♦	0.013	0.0088	ND	0.035
	MW2B(65)	4.7*	1.0	ND	0.0099	ND	0.0097
	MW2B(70)	ND	ND	ND	ND	ND	ND
	MW2B(75)	ND	ND	ND	ND	ND	ND
	MW2B(80)	ND	ND	ND	ND	ND	ND
	EB1(5)	3,600*	15,000	340	1,700	390	2,100
	EB1(10)	690*	3,200	32	280	73	400
	EB1(15)	800*	1,800	15	140	41	240
	EB1(20)	240*	1,700	4.9	76	39	220
	EB1(25)	840*	2,000	3.9	78	44	250
	EB1(30)	530**	1,500	ND	40	30	170
	EB1(35)	200**	1,800	1.4	52	44	250
	EB1(40)	98*	1,200	1.3	50	25	140
	EB1(45)	2.6**	27	1.4	5.7	0.59	3.2
	EB1(50)	55*	430	0.29	11	7.5	42
	EB1(55)	ND	6.4	0.89	0.097	0.20	1.0
	EB1(60)	ND	1.6	0.0090	0.061	0.021	0.098
	EB1(65)	ND	ND	ND	0.034	0.011	0.065

KEI-P94-0903.R5
November 4, 1996

TABLE 3 (Continued)

SUMMARY OF LABORATORY ANALYSES
SOIL

Date	Sample Number	TPH as Diesel	TPH as Gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes
7/23/96	MW4(5)	10	14♦♦	ND	ND	ND	0.068
&	MW4(10)	ND	ND	0.080	0.039	0.0059	0.096
7/24/96	MW4(15)	ND	ND	0.011	ND	ND	ND
	MW4(20)	ND	ND	ND	ND	ND	ND
	MW4(25)	15	47♦	ND	ND	ND	0.77
	MW4(30)	ND	ND	ND	0.014	ND	0.029
	MW4(35)	ND	ND	0.0054	0.015	ND	0.021
	MW4(40.5)	ND	ND	0.031	0.039	0.0083	0.040
	MW4(45)	ND	ND	0.015	0.0078	ND	0.0089
	MW4(50)	ND	ND	0.015	ND	ND	0.0074
	MW4(55)	ND	ND	ND	ND	ND	ND
	MW4(60)	ND	ND	ND	ND	ND	ND
	MW4(65)	ND	27	0.026	0.081	0.27	0.35
	MW4(70)	ND	ND	0.27	0.0053	ND	0.081
	MW4(75)	ND	ND	ND	ND	ND	ND
	MW4(79.5)	ND	ND	ND	ND	ND	ND
	MW5(5)	ND	ND	ND	ND	ND	ND
	MW5(10)	ND	ND	ND	ND	ND	ND
	MW5(15)	ND	ND	ND	ND	ND	ND
	MW5(20)	ND	ND	ND	ND	ND	ND
	MW5(25)	ND	ND	ND	ND	ND	ND
	MW5(30)	ND	ND	0.013	ND	ND	ND
	MW5(35)	ND	ND	0.034	ND	ND	0.0055
	MW5(40)	ND	ND	ND	ND	ND	ND
	MW5(45)	ND	ND	ND	ND	ND	ND
	MW5(50)	ND	ND	0.038	ND	ND	ND
	MW5(55)	ND	32	0.28	ND	0.098	0.048
	MW5(60)	110	560	2.4	2.6	2.3	6.5
	MW5(65)	450	400	3.9	4.1	5.5	56
	MW6(5)	ND	ND	0.054	0.055	0.052	0.17
	MW6(10)	ND	ND	0.011	0.0085	0.014	0.043
	MW6(15)	ND	ND	ND	ND	ND	ND
	MW6(20)	ND	ND	ND	ND	ND	ND
	MW6(25)	ND	ND	ND	ND	ND	ND
	MW6(35)	ND	4.8	0.59	0.57	0.073	0.71
	MW6(40)	ND	1.2	0.27	0.15	0.010	0.053
	MW6(45)	ND	4.8	1.2	1.2	0.049	0.50
	MW6(50)	ND	ND	0.026	ND	0.014	0.0095
	MW6(55)	200	5.0	0.034	0.043	0.049	0.11

TABLE 3 (Continued)

SUMMARY OF LABORATORY ANALYSES
SOIL

Date	Sample Number	TPH as Diesel	TPH as Gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes
7/23/96	MW6(60)	ND	ND	0.0050	ND	ND	ND
&	MW6(65)	ND	ND	0.011	ND	ND	ND
7/24/96	MW6(70)	ND	ND	0.17	0.018	ND	0.039
(Con't)	MW6(75)	ND	ND	ND	ND	ND	ND
	MW6(77.5)	ND	ND	ND	ND	ND	ND

* Sequoia Analytical Laboratory reported that the hydrocarbons detected appeared to be a diesel and non-diesel mixture.

** Sequoia Analytical Laboratory reported that the hydrocarbons detected did not appear to be diesel.

♦ Sequoia Analytical Laboratory reported that the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.

♦♦ Sequoia Analytical Laboratory reported that the hydrocarbons detected did not appear to be gasoline.

NOTE: The soil samples were collected at the depths below grade indicated in the ( ) of the respective sample number.

ND = Non-detectable.

Results are in milligrams per kilogram (mg/kg), unless otherwise indicated.

KEI-P94-0903.R5
November 4, 1996

TABLE 4

SUMMARY OF LABORATORY ANALYSES
SOIL

"FUEL FINGERPRINT" RESULTS

Date	Sample Number	Diesel (C10-C22)	JP-4 (C8-C14)	JP-5 (C10-C16)	Kerosene (C10-C16)	Motor Oil (>C16)	Paint Thinner (C10-C12)	Unidentified Extractable Hydrocarbons
7/24/96	MW4(5)	10	NI	NI	NI	NI	NI	NI
	MW4(10)	NI	NI	NI	NI	NI	NI	NI
	MW4(15)	NI	NI	NI	NI	NI	NI	NI
	MW4(20)	NI	NI	NI	NI	NI	NI	NI
	MW4(25)	15	NI	NI	17	NI	NI	NI
	MW4(30)	NI	NI	NI	9.6	NI	NI	NI
	MW4(35)	NI	NI	NI	2.2	NI	NI	NI
	MW4(40)	NI	NI	NI	NI	NI	NI	NI
	MW4(45)	NI	NI	NI	NI	NI	NI	NI
	MW4(50)	NI	NI	NI	NI	NI	NI	NI
	MW4(55)	NI	NI	NI	NI	NI	NI	NI
	MW4(60)	NI	NI	NI	NI	NI	NI	NI
	MW4(65)	NI	NI	NI	4.2	NI	NI	NI
	MW4(70)	NI	NI	NI	NI	NI	NI	NI
	MW4(75)	NI	NI	NI	NI	NI	NI	NI
	MW4(79.5)	NI	NI	NI	NI	NI	NI	NI
	MW5(5)	NI	NI	NI	NI	NI	NI	NI
	MW5(10)	NI	NI	NI	NI	NI	NI	NI
	MW5(15)	NI	NI	NI	NI	NI	NI	NI
	MW5(20)	NI	NI	NI	NI	NI	NI	NI
	MW5(25)	NI	NI	NI	NI	NI	NI	NI
	MW5(30)	NI	NI	NI	NI	NI	NI	NI

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TABLE 4 (Continued)

SUMMARY OF LABORATORY ANALYSES
SOIL

"FUEL FINGERPRINT" RESULTS

Date	Sample Number	Diesel (C10-C22)	JP-4 (C8-C14)	JP-5 (C10-C16)	Kerosene (C10-C16)	Motor Oil (>C16)	Paint Thinner (C10-C12)	Unidentified Extractable Hydrocarbons
7/24/96 (Con't)	MW5(35)	NI	NI	NI	NI	NI	NI	NI
	MW5(40)	NI	NI	NI	NI	NI	NI	NI
	MW5(45)	NI	NI	NI	NI	NI	NI	2.2
	MW5(50)	NI	NI	NI	NI	NI	NI	NI
	MW5(55)	NI	NI	NI	NI	NI	NI	2.7
	MW5(60)	110	NI	NI	81	NI	NI	NI
	MW5(65)	450	NI	NI	310	NI	NI	NI
	MW6(5)	NI	NI	NI	NI	NI	NI	NI
	MW6(10)	NI	NI	NI	NI	NI	NI	NI
	MW6(15)	NI	NI	NI	NI	NI	NI	NI
	MW6(20)	NI	NI	NI	NI	NI	NI	NI
	MW6(25)	NI	NI	NI	NI	NI	NI	NI
	MW6(35)	NI	NI	NI	NI	NI	NI	NI
	MW6(40)	NI	NI	NI	NI	NI	NI	NI
	MW6(45)	NI	NI	NI	NI	NI	NI	NI
	MW6(50)	NI	NI	NI	NI	NI	NI	NI
	MW6(55)	200	NI	NI	NI	320	NI	NI
	MW6(60)	NI	NI	NI	NI	NI	NI	NI
	MW6(65)	NI	NI	NI	NI	NI	NI	NI
	MW6(70)	NI	NI	NI	NI	NI	NI	NI
	MW6(75)	NI	NI	NI	NI	NI	NI	NI
	MW6(77.5)	NI	NI	NI	NI	NI	NI	NI

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TABLE 4 (Continued)

SUMMARY OF LABORATORY ANALYSES
SOIL

"FUEL FINGERPRINT" RESULTS

NOTE: The soil samples were collected at the depths below grade indicated in the ( ) of the respective sample number.

NI = Not identified.

Results are in milligrams per kilogram (mg/kg), unless otherwise indicated.

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TABLE 5

SUMMARY OF ANALYTICAL RESULTS
SOIL
(by AGS)

Sample Number	TVH	Benzene	Ethyl-benzene	Toluene	Xylenes	TEH
			(Collected on June 30, 1987)			
S-20-B1	281.9	17.1	17.0	73.6	92.3	NA
S-35-B1	126.13	2.06	0.84	1.02	6.59	1,325
S-45-B1	9.36	0.64	0.26	1.06	1.47	NA
S-25-B2	188.8	13.1	6.1	6.3	56.2	NA
S-35-B2	56.81	1.47	1.81	1.58	18.09	NA
S-45-B2	9.09	0.07	0.18	0.26	1.30	NA
S-10-B3	ND	ND	ND	ND	ND	NA
S-30-B3	7.72	3.95	0.13	0.51	0.85	NA
S-40-B3	180.7	12.4	9.4	47.8	45.1	NA
			(Collected on August 21, 1987)			
S-35-B4	100.5	1.4	0.5	0.6	4.4	1,835
S-65-B4	0.45	ND	ND	ND	ND	ND
			(Collected on December 2 through 7, 1987)			
S-35-B5	ND	ND	ND	ND	ND	ND
S-75-B5	ND	ND	ND	ND	ND	ND
S-35-B6	15.0	ND	ND	ND	ND	~~ND~~ 6,300.0
S-70-B6	ND	ND	ND	ND	ND	ND
S-55-B7	390.0	1.3	14.0	6.2	34.0	220.0
S-75-B7	5.0	ND	ND	ND	ND	30.0

Results are in milligrams per kilogram (mg/kg).

See next page

TVH: Total volatile hydrocarbons

TEH: Total extractable hydrocarbons

ND = Non-detectable.

TABLE 6
RESULTS OF CHEMICAL ANALYSES
SOIL AND WATER SAMPLES FROM BORINGS B-5, B-6, AND B-7
Armour Oil Company Service Station No. 188
First and Ray Streets
Pleasanton, California

Sample Number	TPH	Benzene	Ethyl Benzene	Toluene	Xylenes	TEH	
Soil:							
	S-35-B5	<5.000	<0.200	<0.200	<0.200	<0.200	<10.000
mw-1	S-75-B5	<5.000	<0.200	<0.200	<0.200	<0.200	<10.000
	S-35-B6	15.000	0.790	0.200	0.400	<0.200	6,300.0
mw-2	S-70-B6	<5.000	<0.200	<0.200	<0.200	<0.200	<10.000
	S-55-B7	390.000	1.300	14.000	6.200	34.000	220.000
mw-3	S-75-B7	5.000	<0.200	<0.200	<0.200	<0.200	30.000
Water:							
	W-85-MW1	0.050	0.058	<0.002	0.008	0.010	2.100
	W-75-MW2	1.800	0.910	0.260	0.800	1.200	0.620
	W-85-MW3	24.000	2.600	0.160	1.300	0.660	2.300
	DHS		0.0007	0.680	0.100	0.620	

east of USTs
Nw edge of UST pit
west of USTs

Additional compound:

W-85-MW1	1,2-Dichloroethene	0.018
DHS		0.016

Water results in milligrams/liter(mg/l)=parts per million(ppm)
Soil results in milligrams/kilogram (mg/kg) = (ppm)
TPH: Total petroleum hydrocarbons
TEH: Total extractable hydrocarbons
DHS: State of California, Department of Health Services
recommended maximum concentration for drinking water.
< = indicates less than detection limit for method of analysis used.
Sample designation: S-35-B5
borehole/well number
depth of sample in feet

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TABLE 5 (Continued)

SUMMARY OF ANALYTICAL RESULTS
SOIL
(by AGS)

NA = Not analyzed.

NOTE: Monitoring wells MW1, MW2, and MW3 were installed in borings B5, B6, and B7, respectively.

The analytical results were obtained from AGS Reports #87065-1, #87086-1, and #87086-3.

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TABLE 6

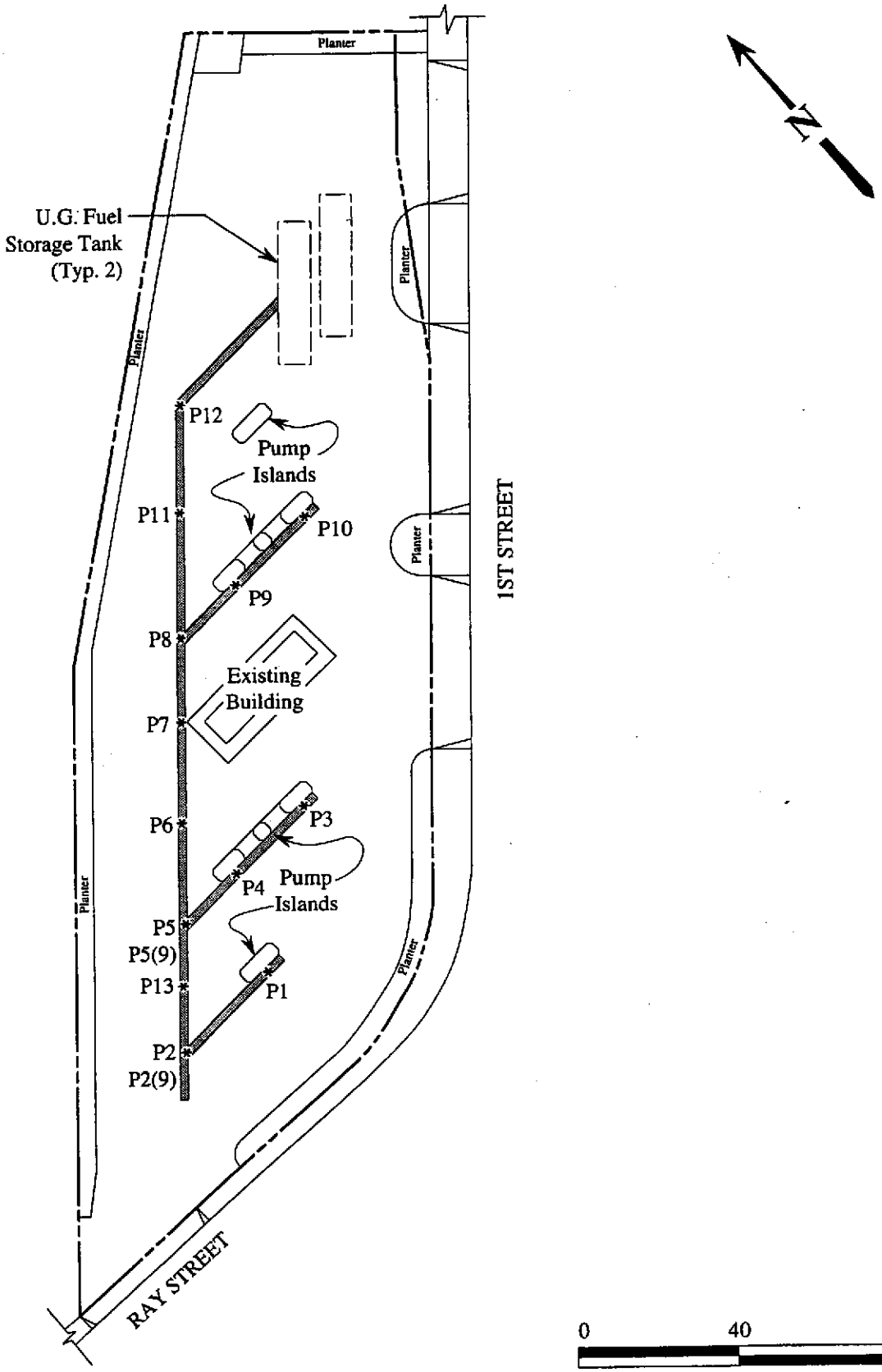
SUMMARY OF LABORATORY ANALYSES
SOIL

Date	Sample	Depth (feet)	TPH as Gasoline	Benzene	Toluene	Ethyl-benzene	Xylenes
9/09/94	P1	3	ND	ND	ND	ND	ND
	P2	3	1,300	3.3	57	26	130
	P3	3	4.9	0.071	0.028	0.065	0.70
	P4	3	11	0.26	0.014	0.23	1.3
	P5	3	8,900	65	570	160	800
	P6	3	ND	0.0093	0.015	ND	0.028
	P7	3	8.7	0.21	0.028	0.081	0.73
	P8	3	10	0.074	0.27	0.043	0.38
	P9	3	65*	0.69	0.15	0.71	3.9
	P10	3	ND	ND	ND	ND	0.015
	P11	3	ND	ND	ND	ND	ND
	P12	3	4.7*	0.011	0.17	0.091	0.54
9/15/94	P2(9)	9	13	0.020	0.015	0.013	1.1
	P5(9)	9	17	0.029	0.031	0.047	1.4
9/23/94	P13	9	4,400	29	390	150	790

ND = Non-detectable.

* Sequoia Analytical Laboratory reported that the hydrocarbons detected appeared to be a gasoline and non-gasoline mixture.

Results are in milligrams per kilogram (mg/kg), unless otherwise indicated.



LEGEND

* Soil sample point location (1994)

0 40 80

Approx. scale feet

SOIL SAMPLE POINT LOCATION MAP

KAPREALIAN ENGINEERING
INCORPORATED

UNOCAL SERVICE STATION #7376
4191 1ST STREET
PLEASANTON, CALIFORNIA

FIGURE
3

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TABLE 7

LISTING OF WATER WELL LOCATIONS WITHIN A
HALF-MILE RADIUS OF UNOCAL SERVICE STATION #7376
(Conducted 1987/1988)

Well Number	Total Depth (feet)	Water Level (feet)	Screened Interval (feet)	Year Constructed	Water Use
16-L-11	NA	NA	NA	1979	Dom?
16-P-5	74	65	65-70	1976	Mon
16-R-1	239	66	70-226	1948	Dom
21-C-2	182	NA	NA	NA	Dom
21-C-4	115	56	NA	1911	Dom?
21-E-1	43	43	NA	1977	Cat
21-G-1	120	100	>95	1974	Cat

NA = Not available
Dom = Domestic
Mon = Monitoring
Cat = Cathodic protection

NOTE: This list was obtained from Table 4 of the AGS Report #87086-3. A Location Map is not available with the copy of this report on file at KEI.

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TABLE 8

SUMMARY OF ANALYTICAL RESULTS
WATER

Date	Well #	TPH	Benzene	Ethyl-benzene	Toluene	Xylenes	TEH
12/08/87	MW1*	50	58	ND	8	10	2,100
	MW2	1,800	910	260	800	1,200	620
	MW3	24,000	2,600	160	1,300	660	2,300

TPH = Total petroleum hydrocarbons

TEH = Total extractable hydrocarbons

ND = Non-detectable.

* 1,2-Dichloroethene was detected at a concentration of 18 µg/L.

Results are in micrograms per liter (µg/L), unless otherwise indicated.

NOTE: The above analytical results were obtained from AGS report 86086-3.

TABLE 2 - SOIL CHEMICAL ANALYTICAL DATA

Unocal Service Station No. 7376
4191 1st Street
Pleasanton, California

Sample Location and ID	Sample Depth (feet)	Date Collected	TPHg (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-benzene (ppm)	Xylenes (ppm)	TPHd (ppm)	TPHo (ppm)	MtBE (ppm)
Boring B-8										
B-8-61.5	61.5	6/8/98	ND	ND	ND	ND	ND	ND	ND	ND
B-8-71.5	71.5	6/8/98	ND	ND	ND	ND	ND	ND	ND	ND
Boring B-9										
B-9-61.5	61.5	6/8/98	ND	ND	ND	ND	ND	ND	ND	ND
B-9-80.5	80.5	6/8/98	5	0.32	0.025	0.032	0.43	280[1]	ND	ND[3]
B-9-81	81	6/8/98	4	0.29	0.59	0.039	0.31	ND	ND	ND
Boring B-10										
B-10-12	12	6/11/98	1	0.013	0.013	0.021	0.13	1.8[1]	ND[3]	0.23
B-10-24.5	24.5	6/11/98	760	5.1	0.9	22	25	1900	ND[3]	ND
B-10-31	31	6/11/98	720	7.3	31	11	68	970	ND[3]	ND[3]
B-10-38	38	6/11/98	4	0.033	0.006	0.010	0.032	90	ND[3]	0.08
B-10-49	49	6/11/98	ND	ND	ND	ND	ND	ND	ND	ND
B-10-57	57	6/11/98	ND	0.012	0.012	0.006	0.048	ND	ND	ND
B-10-75.5	75.5	6/11/98	ND	ND	ND	ND	ND	ND	ND	ND
Boring B-11										
B-11-5.5	5.5	6/9/98	54	0.28	0.2	0.3	3.6	23	590[2]	0.72
B-11-10.5	10.5	6/9/98	560	16	8.0	5.2	25	66	5200[2]	ND[3]
B-11-18	18	6/9/98	16	0.17	0.031	0.21	0.52	3500	ND[3]	ND
B-11-23	23	6/9/98	580	12	1.3	6.0	17	6500	ND[3]	ND[3]
B-11-31	31	6/9/98	290	4.1	0.89	4.7	11	2200	ND[3]	2
B-11-41	41	6/9/98	ND	0.02	ND	ND	ND	84	ND	0.25
B-11-45.5	45.5	6/9/98	2	0.036	0.15	0.022	0.15	7300	ND[3]	ND
B-11-53	53	6/9/98	14	0.008	0.008	0.02	0.025	700	ND	ND
B-11-61	61	6/9/98	370	2.8	16	5.2	24	4000	ND[3]	2.5
B-11-66.5	66.5	6/9/98	ND	ND	ND	ND	ND	140[1]	ND	0.12
B-11-73.5	73.5	6/9/98	ND	ND	ND	ND	ND	ND	ND	ND

Sample Location and ID	Sample Depth (feet)	Date Collected	TPHg (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-benzene (ppm)	Xylenes (ppm)	TPHd (ppm)	TPHo (ppm)	MtBE by 8020 (ppm)
Boring B-12										
B-12-10	10	6/10/98	5	0.16	0.073	0.02	0.22	ND	ND	1.1
B-12-16.5	16.5	6/10/98	ND	ND	ND	ND	ND	ND	ND	0.64
B-12-28.5	28.5	6/10/98	430	5.1	3.2	6.6	15	14000	ND[3]	2.6
B-12-37.5	37.5	6/10/98	1700	21	3.8	8.7	7.6	4700	ND[3]	ND[3]
B-12-47	47	6/10/98	98	1.5	1.2	2.0	4.4	2600	ND[3]	1.5
B-12-55	55	6/10/98	ND	ND	ND	ND	0.01	ND	ND	ND
B-12-72	72	6/10/98	ND	ND	ND	ND	ND	ND	ND	ND
Well Boring MW-7										
MW-7-11	11	8/14/98	ND	ND	ND	ND	ND	ND	ND	ND
MW-7-28	28	8/14/98	ND	ND	ND	ND	ND	ND	ND	ND
MW-7-30.5	30.5	8/14/98	ND	ND	ND	ND	ND	ND	ND	ND
MW-7-42	42	8/14/98	ND	ND	ND	ND	ND	ND	ND	ND
MW-7-60.5	60.5	8/14/98	ND	ND	ND	ND	ND	ND	ND	ND
Well Boring MW-8										
MW-8-11	11	6/12/98	ND	ND	0.007	ND	0.010	ND	ND	ND
MW-8-37	37	6/12/98	ND	ND	0.006	ND	ND	ND	ND	ND
MW-8-45.5	45.5	6/12/98	60	ND[3]	0.058	0.27	0.58	79	ND	ND[3]
MW-8-51.5	51.5	6/12/98	ND	ND	ND	ND	ND	ND	ND	ND
MW-8-67	67	6/12/98	ND	ND	ND	ND	ND	ND	ND	ND
Stockpile										
US-1(comp)[2]	----	6/15/98	100	0.27	0.16	0.82	1.9	1100	ND[3]	ND[3]

ANALYTICAL METHODS:

TPHg = Total Petroleum Hydrocarbons as gasoline according to EPA Method 8015 Modified.
BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes according to EPA Method 8020.
MtBE = Methyl t-Butyl Ether according to EPA Method 8020.

ANALYTICAL LABORATORY:

Columbia Analytical Services(ELAP #1426)

EXPLANATION:

feet = feet below ground surface
ppm = parts per million
ND = Not Detected
[1] = Sample contains components that eluted in the diesel range, but the chromatogram does not match the typical diesel fingerprint.
[2] = This sample was analyzed for CAM 17 metals. Concentrations were below allowable levels for disposal.
[3] = Elevated detection limit. See analytical report for detection limits.

APPENDIX B

GR Field Methods and Procedures

GETTLER-RYAN INC.
FIELD METHODS AND PROCEDURES

Site Safety Plan

Field work performed by Gettler-Ryan Inc. (GR) is conducted in accordance with GR's Health and Safety Plan and the Site Safety Plan. GR personnel and subcontractors who perform work at the site are briefed on the of these plans contents prior to initiating site work. The GR geologist or engineer at the site when the work is performed acts as the Site Safety Officer. GR utilizes a photoionization detector (PID) to monitor ambient conditions as part of the Health and Safety Plan.

Collection of Soil Samples

Exploratory soil borings are drilled by a California-licensed well driller. A GR geologist is present to observe the drilling, collect soil samples for description, physical testing, and chemical analysis, and prepare a log of the exploratory soil boring. Soil samples are collected from the exploratory soil boring with a split-barrel sampler or other appropriate sampling device fitted with clean brass or stainless steel liners. The sampling device is driven approximately 18 inches with a 140-pound hammer falling 30 inches. The number of blows required to advance the sampler each successive 6 inches is recorded on the boring log. The encountered soil is described using the Unified Soil Classification System (ASTM 2488-84) and the Munsell Soil Color Chart.

After removal from the sampling device, soil samples for chemical analysis are covered on both ends with teflon sheeting or aluminum foil, capped, labeled, and placed in a cooler with blue ice for preservation. A chain-of-custody form is initiated in the field and accompanies the selected soil samples to the analytical laboratory. Samples are selected for chemical analysis based on:

a. depth relative to underground storage tanks and existing ground surface
b. depth relative to known or suspected groundwater
c. presence or absence of contaminant migration pathways
d. presence or absence of discoloration or staining
e. presence or absence of obvious gasoline hydrocarbon odors
f. presence or absence of organic vapors detected by headspace analysis

Field Screening of Soil Samples

A PID is used to perform head-space analysis in the field for the presence of organic vapors from the soil sample. This test procedure involves removing some soil from one of the sample tubes not retained for chemical analysis and immediately covering the end of the tube with a plastic cap. The PID probe is inserted into the headspace inside the tube through a hole in the plastic cap. Head-space screening results are recorded on the boring log. Head-space screening procedures are performed and results recorded as reconnaissance data. GR does not consider field screening techniques to be verification of the presence or absence of hydrocarbons.

Stockpile Sampling

Stockpile samples consist of four individual sample liners collected from each 100 cubic yards (yd^3) of stockpiled soil material. Four arbitrary points on the stockpiled material are chosen, and discrete soil sample is collected at each of these points. Each discrete stockpile sample is collected by removing the upper 3 to 6 inches of soil, and then driving the stainless steel or brass tube into the stockpiled material with a wooden mallet or hand driven soil sampling device. The sample tubes are then covered on both ends with teflon sheeting or aluminum foil, capped, labeled, placed in the

cooler with blue ice for preservation. A chain-of-custody form is initiated in the field and accompanies the selected soil samples to the analytical laboratory. Stockpiled soils are covered with plastic sheeting after completion of sampling.

Construction of Monitoring Wells

Monitoring wells are constructed in the exploratory borings with Schedule 40 polyvinyl Chloride (PVC) casing. All joints are thread-joined; no glues, cements, or solvents are used in well construction. The screened interval is constructed of machine-slotted PVC well screen which generally extends from the total well depth to a point above the groundwater. An appropriately-sized sorted sand is placed in the annular space adjacent to the entire screened interval. A bentonite transition seal is placed in the annular space above the sand, and the remaining annular space is sealed with neat cement or cement grout.

Wellheads are protected with water-resistant traffic rated vault boxes placed flush with the ground surface. The top of the well casing is sealed with a locking cap. A lock is placed on the well cap to prevent vandalism and unintentional introduction of materials into the well.

Storing and Sampling of Drill Cuttings

Drill cuttings are stockpiled on plastic sheeting or stored in drums depending on site conditions and regulatory requirements. Stockpile samples are collected and analyzed on the basis of one composite sample per 50 cubic yards of soil. Stockpile samples are composed of four discrete soil samples, each collected from an arbitrary location on the stockpile. The four discrete samples are then composited in the laboratory prior to analysis.

Each discrete stockpile sample is collected by removing the upper 3 to 6 inches of soil, and then driving the stainless or brass sample tube into the stockpiled material with a hand, mallet, or drive sampler. The sample tubes are then covered on both ends with teflon sheeting or aluminum foil, capped, labeled, and placed in a cooler with blue ice for preservation. A chain-of-custody form is initiated in the field and accompanies the selected soil samples to the analytical laboratory. Stockpiled soils are covered with plastic sheeting after completion of sampling.

Wellhead Survey

The top of the newly-installed well casing is surveyed by a California-licensed Land Surveyor to mean sea level (MSL).

Well Development

The purpose of well development is to improve hydraulic communication between the well and surrounding aquifer. Prior to development, each well is monitored for the presence of separate-phase hydrocarbons and the depth-to-water is recorded. Wells are then developed by alternately surging the well with the bailer, then purging the well with a pump to remove accumulated sediments and draw groundwater into the well. Development continues until the groundwater parameters (temperature, pH, and conductivity) have stabilized.

Groundwater Monitoring and Sampling

Decontamination Procedures

All physical parameter measuring and sampling equipment are decontaminated prior to sample collection using Alconox or equivalent detergent followed by steam cleaning with deionized water. During field sampling, equipment placed in a well are decontaminated before purging or sampling the next well by cleaning with Alconox or equivalent detergent followed by steam cleaning with deionized water.

Water-Level Measurements

Prior to sampling each well, the static water level is measured using an electric sounder and/or calibrated portable oil-water interface probe. Both static water-level and separate-phase product thickness are measured to the nearest ± 0.01 foot. The presence of separate-phase product is confirmed using a clean, acrylic or polyvinylchloride (PVC) bailer, measured to the nearest ± 0.01 foot with a decimal scale tape. The monofilament line used to lower the bailer is replaced between borings with new line to preclude the possibility of cross-contamination. Field observations (e.g. product color, turbidity, water color, odors, etc.) are noted. Water-levels are measured in wells with known or suspected lowest dissolved chemical concentrations to the highest dissolved concentrations.

Sample Collection and Labeling

A temporary PVC screen is installed in the boring to facilitate a grab groundwater sample collection. Samples of groundwater are collected from the surface of the water in each well or boring using the teflon bailer or a pump. The water samples are then gently poured into laboratory-cleaned containers and sealed with teflon-lined caps, and inspected for air bubbles to check for headspace. The samples are then labeled by an adhesive label, noted in permanent ink, and promptly placed in an ice storage. A Chain-of-Custody Record is initiated and updated throughout handling of the samples, and accompanies the samples to the laboratory certified by the State of California for analyses requested.

APPENDIX C

Permits, Boring Logs, and Well Construction Details

ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
5997 PARKSIDE DRIVE • PLEASANTON, CALIFORNIA 94588-5127 • PHONE (925) 484-2600 FAX (925) 462-3914

September 2, 1999

Mr. Clyde Galantine
Gettler-Ryan, Inc.
6747 Sierra Court, Suite J
Djublin, CA 94568

Dear Mr. Galantine:

Enclosed is drilling permit 99162 for a monitoring well construction project at 4191 First Street in Pleasanton for Tosco Marketing Company.

Please note that permit condition A-2 requires that a well construction report be submitted after completion of the work. The report should include drilling and completion logs, location sketch, and permit number. Please submit the original of your completion report. We will forward your submittal to the California Department of Water Resources.

If you have any questions, please contact me at extension 235 or Matt Katen at extension 234.

Sincerely,

Wyman Hong

Wyman Hong
Water Resources Technician II

Enc.

P:\WRE\GPOs\GPO1\GPO1.MONITORING.wpd

ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE, PLEASANTON, CALIFORNIA 94588-5127 PHONE (510) 484-2600 X235
FAX (510) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT Transportation Corridor and Private Property adjacent to Unocal Service Station #7376, 4191 First St., Pleasanton, CA

California Coordinates Source _____ ft. Accuracy ± _____ ft.
CCN _____ ft. CCE _____ ft.
APN 94-110-12-4

CLIENT
Name Tosco Marketing Company
Address 2000 Crow Canyon Pl. Suite 400 Phone (925) 277-2884
City San Ramon CA Zip 94583

APPLICANT
Name Getter-Ryan Inc, Clyde Galantine Fax (925) 551-7888
Address 6747 Sierra Ct Suite J Phone (925) 551-7555
City Dublin CA Zip 94568

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	☐	General	☐
Water Supply	☐	Contamination	☐
Monitoring	☒	Well Destruction	☐

PROPOSED WATER SUPPLY WELL USE

New Domestic	☐	Replacement Domestic	☐
Municipal	☐	Irrigation	☐
Industrial	☐	Other Environmental	☒

DRILLING METHOD:

Mud Rotary	☐	Air Rotary	☐	Auger	☒
Cable	☐	Other	☐		

DRILLER'S LICENSE NO. C-57 710079

WELL PROJECTS
Drill Hole Diameter 10 in. Maximum Depth 90 ft.
Casing Diameter 2 in.
Surface Seal Depth 65 ft. Number 2

GEOTECHNICAL PROJECTS
Number of Borings 1 Maximum Depth 120 ft.
Hole Diameter 8 in.

ESTIMATED STARTING DATE 10/7/99
ESTIMATED COMPLETION DATE 10/8/99

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Agent for Tosco Clyde Galantine Date 8/31/99

FOR OFFICE USE

PERMIT NUMBER 99162
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

(A.) GENERAL
1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

(C.) GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

E. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

F. WELL DESTRUCTION. See attached.

G. SPECIAL CONDITIONS

Approved Wyman Hong Date 9/2/99
Wyman Hong

1C 996

Work Order Number: 80001

Permit Number: R00-LD0401
Permit Issuance Date: 1/26/98
Permit Expiration Date: open

COUNTY OF ALAMEDA

JAN 27 '98
GETTLER-RYAN INC.
GENERAL CONTRACTORS

Public Works Agency
399 Elmhurst St., Hayward, CA 94544
(510) 670-5429

ROADWAY ENCROACHMENT PERMIT

This Permit is issued in accordance with Chapter 12.08 of the Alameda County Ordinance Code.

Name & Address of Permittee:
Gettler-Ryan Inc.
6747 Sierra Ct., Ste J
Dublin, CA 94568
Phone Number: 551-7555

Job Site Address:
Transportation Corr.
(4191 1st St., PLS)

Name & Address of Contractor:

Phone Number:

This Permit authorizes an encroachment into the roadway right-of-way at the above address; this encroachment shall be subject to the terms and conditions of the said Chapter 12.08 and to all other provisions attached and written hereto.

The Permittee intends to perform the following work scope:

Install and operate 3 monitoring wells within Tee Corridor as shown on the attached map.

Unless otherwise specified below, all work or access shall be subject to the terms and conditions of the attached General Provisions:
See attached.

Bond Information:
$ 9000 Surety

Insp. Fee:
$125

BY: JK Rodgers, Alameda County

Work Completed (Date): _____

Inspector:

I certify that the information that I have entered into this permit application is correct, and I agree to comply with all of the terms and conditions and other requirements of the issued Permit.

See Appl.
Signature of Applicant — Date

The Permittee is responsible for notifying the Inspection Office listed on the back of this form.
THIS PERMIT IS INCOMPLETE WITHOUT THE ATTACHED GENERAL PROVISIONS

attch. 1 to RO0-LD0401

Installation of the subject wells shall be in accordance with the requirements of the Alameda County Flood Control & Water Conservation District (Zone 7).

Removal or abandonment of the subject wells shall require a separate permit from the Public Works Agency.

LAND DEVELOPMENT (510) 670-5429
ALAMEDA COUNTY PUBLIC WORKS AGENCY
399 Elmhurst Street, Hayward, CA 94544

RECEIPT NO. **LD-0401**

Date: 1/26/98 Amount $ 150

Received From: Gettler-Ryan, Inc. Cash

Address: 6747 Sierra Ct., Ste J Warrant or Check No. 039559

Dublin, CA 94568 Bank No. 90-2267

MEMO: Monitoring Webb - Trans Cash Phone 551-7555

$25 20-509/2311

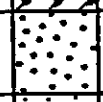
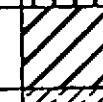
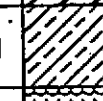
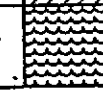
$125 20-509/6081

DIRECTOR OF PUBLIC WORKS

Note: $10 fee for returned checks

By: D.K. Rogers

WHITE - Auditor CANARY - Engineer PINK - File GOLDENROD - Payee 266-300

MAJOR DIVISIONS					TYPICAL NAMES
COARSE-GRAINED SOILS MORE THAN HALF IS COARSER THAN NO. 200 SIEVE	GRAVELS MORE THAN HALF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE SIZE	CLEAN GRAVELS WITH LITTLE OR NO FINES	GW		WELL GRADED GRAVELS WITH OR WITHOUT SAND, LITTLE OR NO FINES
			GP		POORLY GRADED GRAVELS WITH OR WITHOUT SAND, LITTLE OR NO FINES
		GRAVELS WITH OVER 15% FINES	GM		SILTY GRAVELS, SILTY GRAVELS WITH SAND
			GC		CLAYEY GRAVELS, CLAYEY GRAVELS WITH SAND
	SANDS MORE THAN HALF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE SIZE	CLEAN SANDS WITH LITTLE OR NO FINES	SW		WELL GRADED SANDS WITH OR WITHOUT GRAVEL, LITTLE OR NO FINES
			SP		POORLY GRADED SANDS WITH OR WITHOUT GRAVEL, LITTLE OR NO FINES
		SANDS WITH OVER 15% FINES	SM		SILTY SANDS WITH OR WITHOUT GRAVEL
			SC		CLAYEY SANDS WITH OR WITHOUT GRAVEL
FINE-GRAINED SOILS MORE THAN HALF IS FINER THAN NO. 200 SIEVE	SILTS AND CLAYS LIQUID LIMIT 50% OR LESS		ML		INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTS WITH SANDS AND GRAVELS
			CL		INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY CLAYS WITH SANDS AND GRAVELS, LEAN CLAYS
			OL		ORGANIC SILTS OR CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50%		MH		INORGANIC SILTS, MICACEOUS OR DIATOMACIOUS, FINE SANDY OR SILTY SOILS, ELASTIC SILTS
			CH		INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
			OH		ORGANIC SILTS OR CLAYS OF MEDIUM TO HIGH PLASTICITY
HIGHLY ORGANIC SOILS			PT		PEAT AND OTHER HIGHLY ORGANIC SOILS

LL	- Liquid Limit (%)
PI	- Plastic Index (%)
PID	- Volatile Vapors in ppm
MA	- Particle Size Analysis
2.5 YR 6/2	- Soil Color according to Munsell Soil Color Charts (1975 Edition)
5 GY 5/2	- GSA Rock Color Chart

☒	- No Soil Sample Recovered
■	- "Undisturbed" Sample
⊠	- Bulk or Classification Sample
▽	- First Encountered Ground Water Level
▼	- Piezometric Ground Water Level
Penetration	- Sample drive hammer weight - 140 pounds falling 30 inches. Blows required to drive sampler 1 foot are indicated on the logs

Unified Soil Classification - ASTM D 2488-85 and Key to Test Data

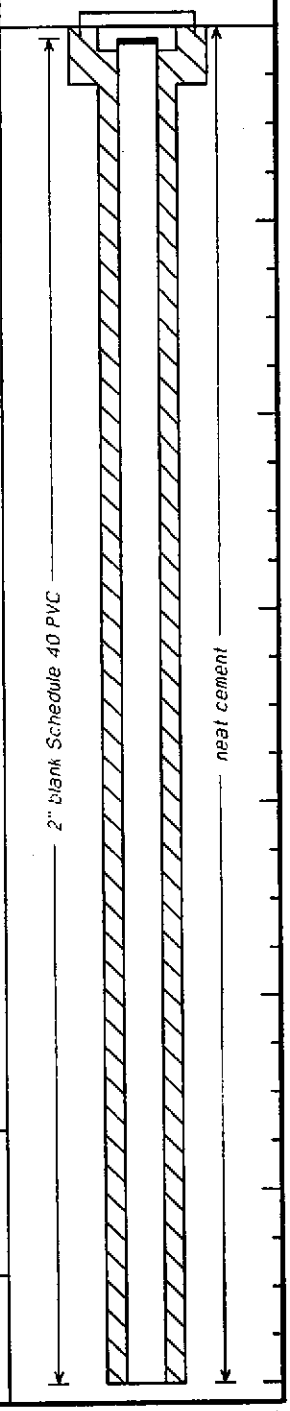
Gettler-Ryan, Inc.

Log of Boring MW-9

PROJECT: *Tosco (76) Service Station No. 7376*	LOCATION: *419 First Street, Pleasanton, CA*
GR PROJECT NO.: *140107.04*	CASING ELEVATION: *354.85 feet MSL*
DATE STARTED: *10/07/99*	WL (ft. bgs): *73.85* DATE: *10/07/99* TIME: *1:30 pm*
DATE FINISHED: *10/07/99*	WL (ft. bgs): *71.73* DATE: *10/07/99* TIME: *3:10 pm*
DRILLING METHOD: *8" hollow-stem auger*	TOTAL DEPTH: *76 feet*
DRILLING COMPANY: *Woodward Drilling*	GEOLOGIST: *Clyde Galantine*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
4		13	MW-9-6			ML	SILT with SAND (ML) - dark brown (10YR 4/3), moist, stiff, non-plastic; 80% silt, 15% fine to coarse sand, 5% gravel.
							Change at 2.5 feet to dark brown (10YR 3/3).
							Change at 4.25 feet to SILT (ML) - brown (10YR 4/3), moist, very stiff, non-plastic; 90-100% silt, 0-10% very fine sand.
8							
12	0	18	MW-9-11				Change at 10 feet to SILT with SAND (ML) - brown (10YR 4/3), moist, very stiff; 80% silt, 20% fine to coarse sand.
16	0	56	MW-9-16				Change at 15 feet to dark yellowish brown (10YR 4/4).
20	0	48	MW-9-21				Change at 20 feet to SILT (ML) - brown (7.5YR 5/4) with dark grayish brown (10YR 4/2) mottling, moist, hard; 65% silt, 25% clay, 10% fine to coarse sand.
24						CL	CLAY (CL) - dark yellowish brown (10YR 4/4), moist, hard, moderately plastic; 75% clay, 15% silt, 10% fine to coarse sand.
	0	38	MW-9-26			GW	GRAVEL (GW) - dark grayish brown (2.5Y 4/2), moist to saturated, very dense; 70% subangular to rounded fine gravel, 25% 90% subangular to rounded fine gravel, 5% fine to coarse sand, 5% clay.
28							

WELL DIAGRAM



JOB NUMBER: *140107.04*

Gettler-Ryan, Inc.

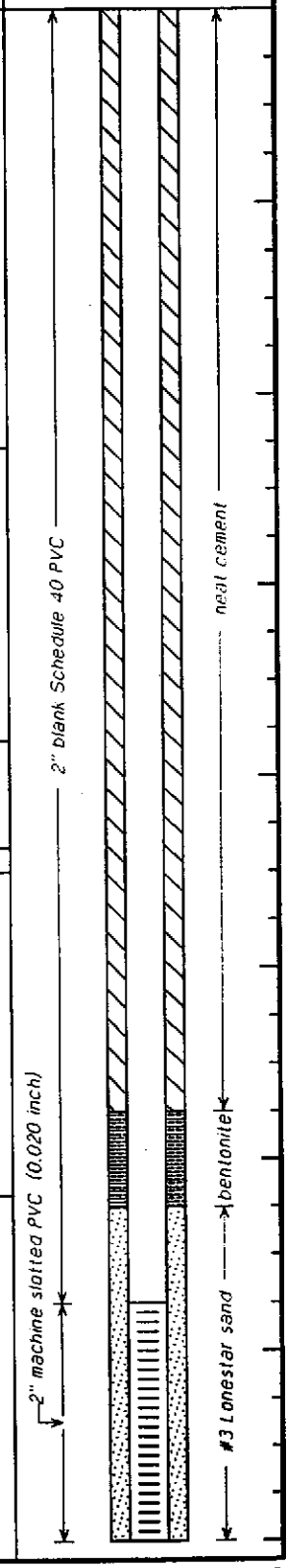
Log of Boring MW-9

PROJECT: *Tosco (76) Service Station No. 7376*

LOCATION: *419 First Street, Pleasanton, CA*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
32	0	<100	MW-9-30.5			GW	GRAVEL (GW) – dark grayish brown (2.5Y 4/2), moist to saturated, very dense; 70% subangular to rounded fine gravel, 25% 90% subangular to rounded fine gravel, 5% fine to coarse sand, 5% clay.
36	1	<100					No sample recovery
40	0	24	MW-9-41			CL	CLAY (CL) – light yellowish gray (2.5Y 6/2) to dark brown (10YR 4/3), moist to saturated, very stiff, very plastic; 80% clay, 15% silt, 5% fine sand. Change at 41 feet to SANDY CLAY with GRAVEL (CL) – saturated, slightly plastic; 65% clay, 20% very fine to coarse sand, 15% fine gravel.
44						SW	SAND (SW) – dark yellowish brown (10YR 4/6), saturated, very dense, 95% subangular to rounded fine to coarse sand, 5% clay.
48	0	56	MW-9-46.5			GW / CL	GRAVEL (GW) – dark yellowish brown (10YR 4/6), saturated, very dense; 75% subangular to rounded fine gravel, 20% fine to coarse sand, 5% clay. CLAY (CL) – dark yellowish brown (10YR 4/6), saturated, hard, plastic; 90% clay, 5% silt, 5% fine sand.
52	0	31	MW-9-51				Change at 50 feet to brown (10YR 5/3) to light yellowish brown (2.5Y 6/3) with black manganese oxide staining.
56	0	<100	MW-9-56			SM	SILTY SAND (SM) – brown (10YR 4/3), saturated, very dense, 80% subangular to rounded very fine to fine sand, 20% silt.
60							

WELL DIAGRAM



JOB NUMBER: *140107.04*

Gettler-Ryan, Inc.

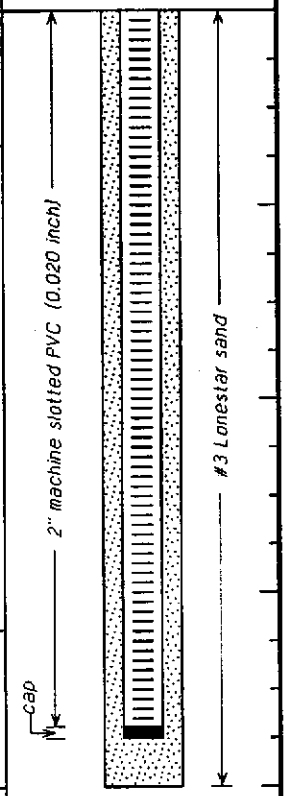
Log of Boring MW-9

PROJECT: *Tosco (76) Service Station No. 7376*

LOCATION: *419 First Street, Pleasanton, CA*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
	0	<100	MW-9-60.5			SM	See previous sheet for geologic description.
						SW-SC	SAND with CLAY (SW-SC) – dark yellowish brown (10YR 4/4), **saturated**, very dense; 80% subangular to rounded fine to very coarse sand, 10% fine gravel, 10% clay.
64						SW	**SAND with GRAVEL** (SW) – dark yellowish brown (10YR 3/4), saturated, very dense; 65–70% subangular to rounded fine to very coarse sand, 25% fine gravel, 5–10% clay.
	0	<100					
68							
	0	68	MW-9-71.5				
72						SW-SC	SAND with CLAY (SW-SC) – dark yellowish brown (10YR 4/4), **saturated**, very dense; 80% subangular to rounded fine to very coarse sand, 10% fine gravel, 10% clay.
	0	<100	MW-9-76				Bottom of boring at 76 feet bgs.
76							(* = Converted to equivalent standard penetration blows/foot.)
80							
84							
88							
92							

WELL DIAGRAM



JOB NUMBER: *140107.04*

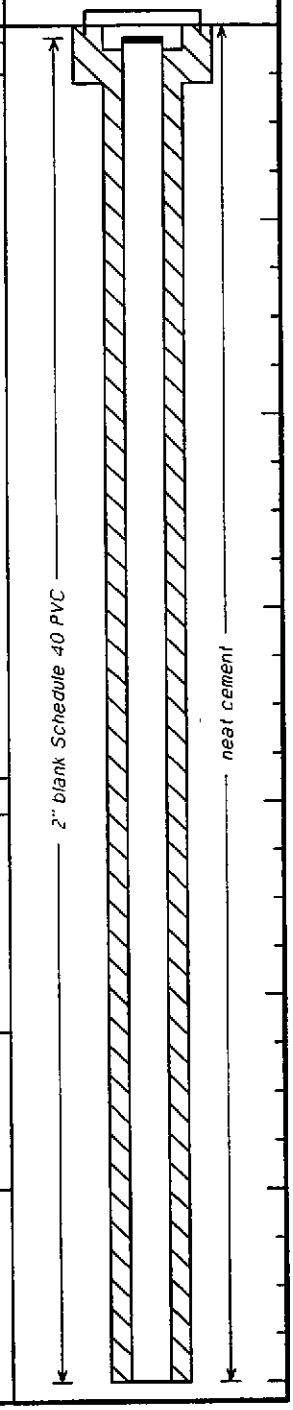
Gettler-Ryan, Inc.

Log of Boring MW-10

PROJECT: *Tosco (76) Service Station No. 7376*	LOCATION: *419 First Street, Pleasanton, CA*
GR PROJECT NO.: *140107.04*	CASING ELEVATION: *362.62 feet MSL*
DATE STARTED: *11/21/99*	WL (ft. bgs): *88.5* DATE: TIME:
DATE FINISHED: *11/21/99*	WL (ft. bgs): DATE: TIME:
DRILLING METHOD: *8" hollow-stem auger*	TOTAL DEPTH: *100 feet*
DRILLING COMPANY: *Woodward Drilling*	GEOLOGIST: *Clyde Galantine*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
						GW	Asphalt GRAVEL with SAND (GW) - Fill material.
						ML	SANDY SILT (ML) - very dark grayish brown (10YR 3/2), moist, hard, non-plastic; 50% silt, 30% subangular to rounded fine to coarse sand, 20% clay.
4	-		MW-10-3.5				Change at 2.5 feet to yellowish brown (10YR 5/6).
	-	29	MW-10-5.5				
	0	21	MW-10-7.5				
8							
	2	25	MW-10-11				Change at 12.5 feet to SILT with GRAVEL (ML) - dark yellowish brown (10YR 3/4), moist, very stiff, non-plastic; 80% silt, 15% subangular to rounded fine gravel, 5% fine to coarse sand.
12	0	22	MW-10-13				Change at 12.5 feet to SANDY SILT (ML) - dark gray (10YR 4/1); 40% silt, 40% subangular to rounded fine to medium sand, 20% clay.
							Change at 14.5 feet to GRAVELLY SILT (ML) - very grayish brown (10YR 5/2), hard, non-plastic; 60% silt, 30% subangular to rounded fine gravel, 15% subangular to rounded fine to coarse sand.
16	0	54	MW-10-16.5			SW-SM	
		<100	MW-10-18			ML	SAND with GRAVEL (SW-SM) - dark brown (10YR 4/3), moist to saturated, very dense; 60% subangular to rounded fine to very coarse sand, 30% fine gravel, 10% silt.
20							SILT with SAND (ML) - dark yellowish brown (10YR 4/6), moist, hard, non-plastic; 70% silt, 25% subangular to rounded fine to very coarse sand, 5% subangular to rounded fine gravel.
	0	54	MW-10-21			SW	SAND (SW) - olive gray (5Y 4/2), moist, very dense; 85% subangular to rounded fine to coarse sand, 10% subangular to rounded fine gravel, 5% silt. No sample recovery.
24		67				ML	SILT (ML) - yellowish brown (10YR 5/4), moist, hard, non-plastic; 90% silt, 10% subangular to rounded fine sand.
	0	46	MW-10-25.5				Change at 27.25 feet to olive gray (5Y 4/2); 60% silt, 30% clay, 10% subangular to rounded fine sand.
28							

WELL DIAGRAM



JOB NUMBER: *140107.04*

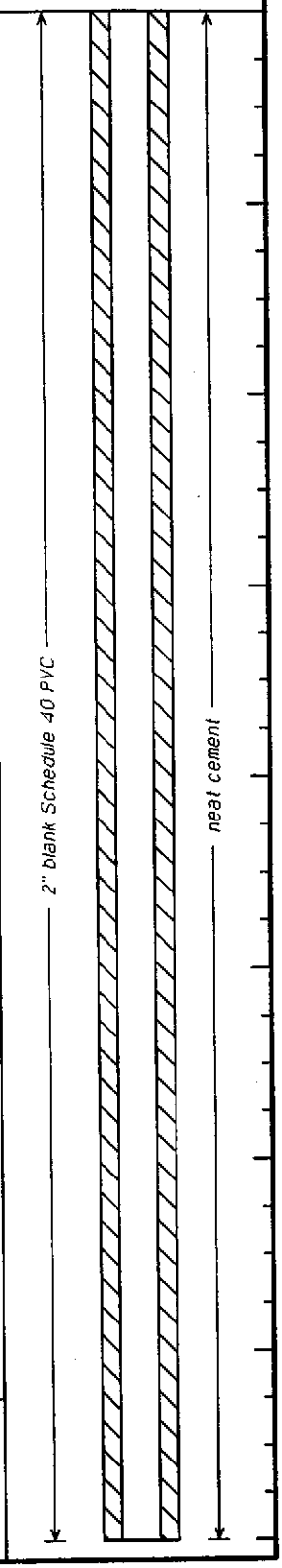
Gettler-Ryan, Inc.

Log of Boring MW-10

PROJECT: *Tosco (76) Service Station No. 7376*

LOCATION: *419 First Street, Pleasanton, CA*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SOIL CLASS	GEOLOGIC DESCRIPTION
	0	48	MW-10-29	ML	SILT (ML) – olive gray (5Y 4/2); moist, hard, non-plastic; 60% silt, 30% clay, 10% subangular to rounded fine sand.
	-	<100	MW-10-31	GW-GC	GRAVEL with SILT and SAND (GW-GC) – olive gray (5Y 4/2), moist, very dense; 60% subangular to rounded fine gravel, 30% subangular to rounded fine to coarse sand, 10% silt.
32	-	<100	MW-10-32.5	SW	SAND (SW) – olive gray (5Y 4/2), moist, very dense; 90% subangular to rounded very fine to coarse sand, 10% silt, layers of silt and coarse sand.
36	3	<100	MW-10-36.5	GW	GRAVEL with SAND (GW) – olive gray (5Y 5/2), moist, very dense; 60% subangular to rounded fine gravel, 30–35% subangular to rounded very fine to coarse sand, 5–10% silt.
	31	<100	MW-10-38		
40	-	48	MW-10-40.5	ML	SILT (ML) – brown (10YR 4/3), moist, hard, non-plastic; 60–80% silt, 20–30% clay, 0–10% subangular to rounded fine to coarse sand.
44	2	68	MW-10-44		Coarse sand layer at 43.25 – 43.4 feet.
					At 45 feet becomes saturated.
	0	63	MW-10-47		Change at 46 feet to grayish brown (10YR 5/2), moist; 80% silt, 20% clay.
48					Gray (5Y 5/1) mottling at 47 to 48.5 feet.
		<100	MW-10-49		
	2	<100	MW-10-51		Change at 50 feet to dark yellowish brown (10YR 4/4) with black manganese oxide staining.
52					
	12	<100	MW-10-54		
					Change at 55 feet to light olive brown (2.5Y 5/3) and greenish gray (5B 6/1).
56	443	72	MW-10-56		
					Equipment broken downhole, overdrilled from 57 – 70 feet, no samples were taken.
60					



WELL DIAGRAM

JOB NUMBER: *140107.04*

Gettler-Ryan, Inc.

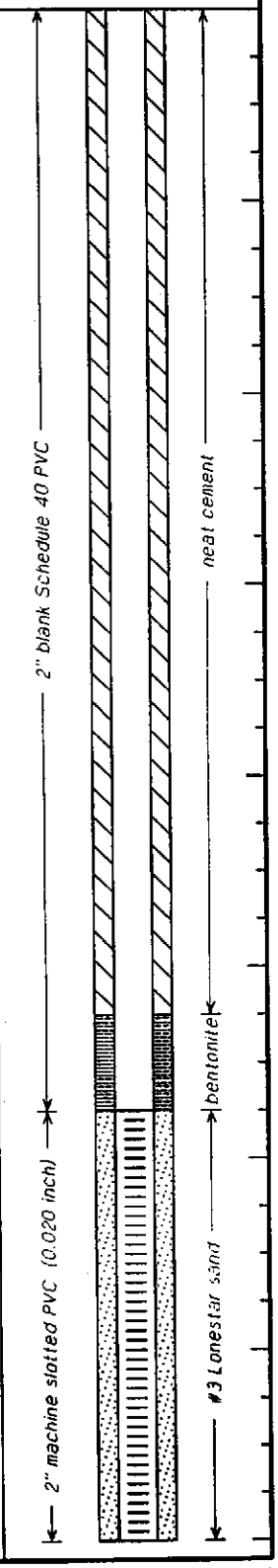
Log of Boring MW-10

PROJECT: *Tosco (76) Service Station No. 7376*

LOCATION: *419 First Street, Pleasanton, CA*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
							Equipment broken downhole, overdrilled from 57 – 70 feet, no samples were taken.
64							
68							
	0	<100	MW-10-71			GW-GC	GRAVEL with SILT and SAND (GW-GC) – dark yellowish brown (10YR 4/6), saturated, very dense; 70% subangular to rounded fine gravel, 20% subangular to rounded fine to coarse sand, 10% silt.
72	–	<100	MW-10-72.5				
	0	<100	MW-10-76				
76	–	<100	MW-10-77.5				
80						ML	SILT (ML) – yellowish brown (10YR 5/6), moist, hard, non-plastic; 80% silt, 10% clay, 10% subangular to rounded fine sand, trace of fine gravel.
	0	50	MW-10-82				Fine gravel and coarse sand strata at 81.8 – 82.2 feet.
84	0	<100	MW-10-84			SW-SM	SAND with SILT and GRAVEL (SW-SM) – yellowish brown (10YR 5/6), moist, very dense; 70% subangular to rounded fine to coarse sand, 20% gravel, 10% silt.
	0	<100	MW-10-85.5			GW	GRAVEL with SAND (GW) – yellowish brown (10YR 5/6), moist, very dense; 70% subangular to rounded fine gravel, 30% subangular to rounded fine to very coarse sand, trace of silt.
88	0	<100	MW-10-87.5				▽ Saturated at 88.5 feet.
	–	<100	MW-10-90.5				Grab groundwater sample MW-10-90 at 90 feet.
92							

WELL DIAGRAM



JOB NUMBER: *140107.04*

Gettler-Ryan, Inc.

Log of Boring MW-10

PROJECT: *Tosco (76) Service Station No. 7376*

LOCATION: *419 First Street, Pleasanton, CA*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	WELL DIAGRAM
0	0	<100	MW-10-92.5			GW	GRAVEL with SAND (GW) - yellowish brown (10YR 5/6), moist, very dense; 70% subangular to rounded fine gravel, 30% subangular to rounded fine to very coarse sand, trace of silt.	cap; 2" machine slotted PVC (0.020 inch); #3 Lonestar sand
		<100					Course sand (SW) at bottom of 92.5 foot sample.	
							Hydropunch rejection ater 6 inches at 93 feet.	
96							Hydropunch sample - MW-10-95'.	
	2	<100	MW-10-99				**Hydropunch from 99 - 100 feet, no groundwater after 1 hour wait.**	
100							Bottom of boring at 100 feet bgs.	
							(* = Converted to equivalent standard penetration blows/foot.)	
104								
108								
112								
116								
120								
124								

JOB NUMBER: *140107.04*

Gettler-Ryan, Inc.

Log of Boring B-13

PROJECT: *Tosco (76) Service Station No. 7376*	LOCATION: *419 First Street, Pleasanton, CA*
GR PROJECT NO.: *140107.04*	SURFACE ELEVATION: *364.65 feet MSL*
DATE STARTED: *11/22/99*	WL (ft. bgs): *102* DATE: TIME:
DATE FINISHED: *11/22/99*	WL (ft. bgs): DATE: TIME:
DRILLING METHOD: *8" hollow-stem auger*	TOTAL DEPTH: *135.5 feet*
DRILLING COMPANY: *Woodward Drilling*	GEOLOGIST: *Clyde Galantine*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
							Topsoil – planter material with bark.	Boring backfilled with neat cement from the bottom to ground surface.
						CL	CLAY with GRAVEL (CL) – strong brown (7.5YR 5/8), moist, hard; 70% clay, 20% subangular to rounded fine gravel, 10% subangular to rounded fine to coarse sand, bricks, concrete, asphalt. (fill material)	
4						ML	SILT with GRAVEL (ML) – black (10YR 2/1), moist, hard, non-plastic; 60% silt, 30% subangular to rounded fine gravel, 10% fine to coarse sand. (fill material)	
	27	37	B-13-6					
	139	42	B-13-7.5				Change at 6 – 7 feet to SILT (ML) – dark brown (10YR 3/3), moist, hard, non-plastic; 85% silt, 10% subangular to rounded fine to medium sand, 5% fine gravel. (fill material)	
8								
							Change at 10 feet to dark gray (10YR 4/1), **saturated**; (fill material)	
	11	39	B-13-11					
							Change at 11.25 feet to SILT with SAND (ML) – dark yellowish brown (10YR 4/6), moist, hard, non-plastic; 70% silt, 15% subangular to rounded fine sand, trace of fine gravel.	
12	–	<100	B-13-12.5			SW	SAND (SW) – strong brown (10YR 4/6), moist, very dense; 90-95% very fine to medium sand, 5-10% silt.	
						ML	SILT (ML) – dark yellowish brown (10YR 4/4), moist, hard, non-plastic; 90% silt, 5% subangular to rounded fine sand, 5% clay.	
	2	<100	B-13-15.5					
16								
	15	<100	B-13-18.5				Change at 18 feet to dark grayish brown (2.5Y 4/2).	
							Change at 20 feet to dark olive brown (2.5Y 2/2); 60% silt, 25% clay, 10% subangular to rounded fine gravel, 5% fine to coarse sand, **black hydrocarbon in void spaces.**	
20	144	73	B-13-21			GW-GM	GRAVEL with SILT (GW-GM) – very dark gray (5Y 3/1), moist, very dense; 75% subangular to rounded fine gravel, 15% subangular to rounded fine to coarse sand, 10% silt, **abundant black hydrocarbon in void spaces.**	
	376	<100	B-13-23.5					
24						SW	SAND (SW) – very dark gray (5Y 3/1), **saturated**, very dense; 90% subangular to rounded fine to very coarse sand, 5% silt, 5% fine gravel, **abundant hydrocarbon.**	
	957	<100	B-13-26.5				Change at 27 feet to 75% sand, 20% fine gravel, 5% silt.	
28	>500	<100	B-13-28					

JOB NUMBER: *140107.04*

Gettler-Ryan, Inc.

Log of Boring B-13

PROJECT: *Tosco (76) Service Station No. 7376*

LOCATION: *419 First Street, Pleasanton, CA*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
				SW	See previous page for geologic description.	
				ML	SILT (ML) – very dark gray (5Y 3/1), **saturated**, hard, non-plastic; 85% silt, 10% subangular to rounded fine sand, 5% clay, **hydrocarbon in void spaces.**	
32	>1500	44	B-13-32	SM	SILTY SAND (SM) – very dark gray (5Y 3/1), saturated, very dense; 65% subangular to rounded fine sand, 35% silt.	
	>1500	<100	B-13-33	GM	GRAVEL (GW) – very dark gray (5Y 3/1), saturated, very dense; 85% subangular to rounded fine gravel, 10% fine to coarse sand, 5% silt, **hydrocarbon in void spaces.**	
	877	<100	B-13-35.5			
36				CL	CLAY (CL) – brown (10YR 4/3) and gray (5Y 5/1), damp, hard, plastic; 60% clay, 30% silt, 10% subangular to rounded fine sand, trace of fine gravel, **hydrocarbon in void spaces.**	
	49	72	B-13-38.5			
40						
	60	72	B-13-42			
	190	68	B-13-43			
44					Change at 45 feet to CLAY with GRAVEL (CL) – brown (10YR 5/3) and gray (5Y 5/1), moist, hard, non-plastic; 60% clay, 20% subangular to rounded fine gravel, 10% fine to coarse sand, **hydrocarbon in void spaces.**	
	697	69	B-13-46			
48						
	339	<100	B-13-49			
	686	<100	B-13-51		[redacted]	
52					Change at 52 feet to 60% clay, 30% gravel, 10% sand.	
	728	<100	B-13-53			
				GM	SILTY GRAVEL with SAND (GM) – brown (10YR 5/3), moist, very dense; 70% subangular to rounded fine gravel, 15% silt, 15% subangular to rounded fine to very coarse sand, **hydrocarbon in void spaces.**	
	-	<100		ML	No sample recovery.	
56					SILT (ML) – yellowish brown (10YR 5/4) to light brownish gray (10YR 6/2), moist, hard, non-plastic; 60% silt, 35% clay, 5% subangular to rounded fine sand, trace of fine gravel, **trace of hydrocarbon in void spaces.**	
	524	<100	B-13-57			
60						

Gettler-Ryan, Inc.

Log of Boring B-13

PROJECT: *Tosco (76) Service Station No. 7376*

LOCATION: *419 First Street, Pleasanton, CA*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
	15	<100	B-13-61			ML	Sand strata at 60.4 – 60.7 feet.	
	833	<100	B-13-63			GW-GC	GRAVEL with CLAY and SAND (GW-GC) – dark yellowish brown (10YR 4/4), moist, very dense; 70% subangular to rounded fine gravel, 20% subangular to rounded fine to coarse sand, 10% clay.	
64								
	–	<100	B-13-65.5					
	–	<100	B-13-67.5				**Saturated at 67 feet.**	
68								
	52	<100	B-13-70.5				Change at 70 feet to 55% gravel, 35% sand, 10% clay.	
						ML	SILT (ML) – dark yellowish brown (10YR 4/6) to pale brown (10YR 6/2) with iron oxide staining, moist, hard, non-plastic; 75% silt, 20% clay, 5% subangular to rounded fine sand.	
72							**Attempt grab groundwater sample at 68 – 73 feet, no groundwater after 45 minute wait.**	
	7	<100	B-13-73.5					
	–	<100	B-13-75.5					
76								
						GW	GRAVEL (GW) – dark yellowish brown (10YR 4/4), moist, very dense; 75% subangular to rounded fine gravel, 20% subangular to rounded fine to coarse sand, 5% clay.	
80	–	<100	B-13-80.5					
	6	<100	B-13-82.5					
84								
	6	<100	B-13-85.5				Change at 85 feet to 55% gravel, 40% sand, 5% clay.	
	–	<100	B-13-87.5					
88								
	–	<100	B-13-90.5					
92								

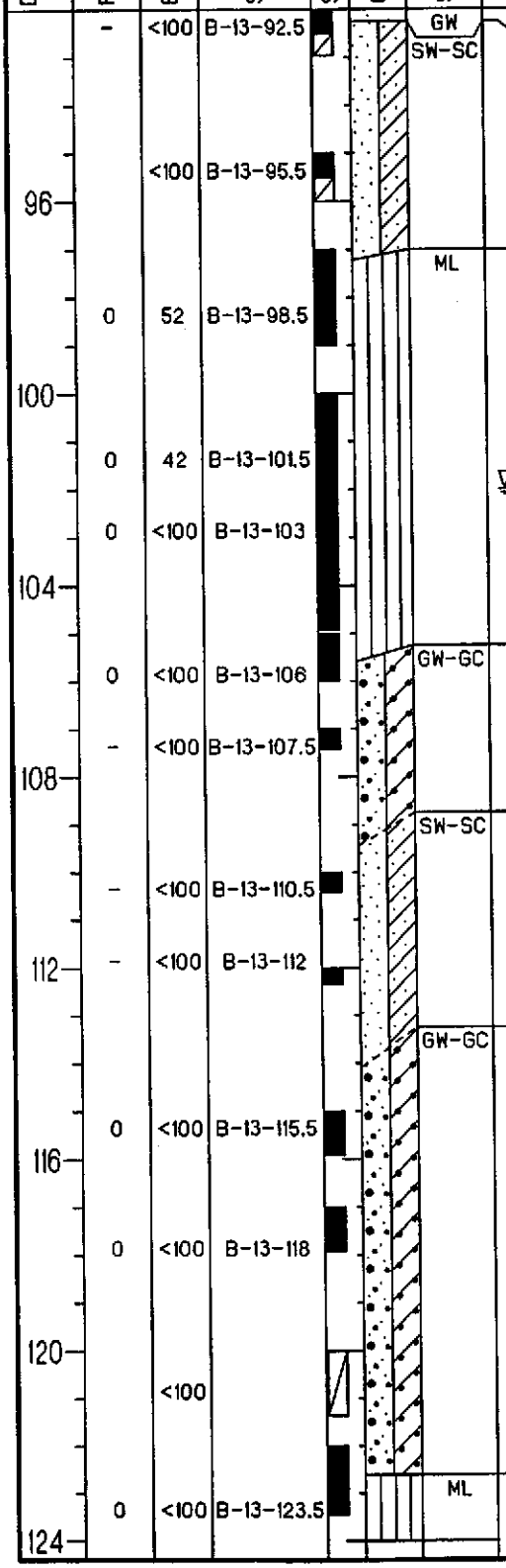
Gettler-Ryan, Inc.

Log of Boring B-13

PROJECT: *Tosco (76) Service Station No. 7376*

LOCATION: *419 First Street, Pleasanton, CA*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
	-	<100	B-13-92.5	GW	See previous page for geologic description.	
				SW-SC	SAND with CLAY and GRAVEL (SW-SC) – yellowish brown (10YR 5/4), moist, very dense; 60% subangular to rounded fine to coarse sand, 30% subangular to rounded fine gravel, 10% clay.	
		<100	B-13-95.5		Saturated gravel with sand at contact with silt.	
96				ML	SILT (ML) – light yellowish brown (10YR 6/4) to dark yellowish brown (10YR 4/6), moist, hard, non-plastic; 70% silt, 25% clay, 5% subangular to rounded fine sand, iron oxide staining.	
	0	52	B-13-98.5		**Attempt grab groundwater sample at 91 – 99 feet, no groundwater after 30 minute wait.**	
100						
	0	42	B-13-101.5		▽ **Attempt grab groundwater sample at 80 – 102 feet, no groundwater after overnight wait.**	
	0	<100	B-13-103		Change at 102.75 feet to SILT with SAND (ML) – yellowish red (5YR 4/6) with black (10YR 2/1) staining, moist, hard, non-plastic; 75% silt, 15% subangular to rounded fine to medium sand, 10% clay.	
104						
	0	<100	B-13-106	GW-GC	GRAVEL with CLAY and SAND (GW-GC) – dark yellowish brown (10YR 4/4), saturated, very dense; 70% subangular to rounded fine gravel, 20% subangular to rounded fine to very coarse sand, 10% clay.	
	-	<100	B-13-107.5			
108						
				SW-SC	SAND with CLAY (SW-SC) – dark yellowish brown (10YR 4/4), saturated, very dense; 80% subangular to rounded medium to coarse sand, 10% clay, 10% fine gravel.	
	-	<100	B-13-110.5			
112	-	<100	B-13-112		**Attempt grab groundwater sample at 105 – 112 feet, no groundwater after 45 minute wait.**	
					Silt strata at 112.3 feet.	
				GW-GC	GRAVEL with CLAY and SAND (GW-GC) – dark yellowish brown (10YR 4/4), saturated, very dense; 70% subangular to rounded fine gravel, 20% subangular to rounded fine to coarse sand, 10% clay.	
	0	<100	B-13-115.5			
116						
	0	<100	B-13-118			
120						
		<100			No sample recovery.	
				ML	SILT (ML) – yellowish brown (10YR 4/4), moist, hard, non-plastic; 80% silt, 10% clay, 10% subangular to rounded fine gravel.	
	0	<100	B-13-123.5			
124						



JOB NUMBER: *140107.04*

Gettler-Ryan, Inc.

Log of Boring B-13

PROJECT: *Tosco (76) Service Station No. 7376*

LOCATION: *419 First Street, Pleasanton, CA*

DEPTH (feet)	PID (ppm)	BLOWS/FT. *	SAMPLE NUMBER	SAMPLE INT.	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	REMARKS
						ML	See previous page for geologic description.	
						GC	CLAYEY GRAVEL with SAND (GC) - yellowish brown (10YR 5/8), **saturated**, very dense; 60% subangular to rounded fine gravel, 25% subangular to rounded fine to very coarse sand, 15% clay.	
	0	<100	B-13-128					
128		<100					No sample recovery.	
							Grab groundwater sample - B-13-128.5 at 128.5 feet.	
132							**Hydropunch sample - B-13-133'.**	
		<100					No sample recovery.	
136							Bottom of boring at 135.5 feet bgs.	
							(* = Converted to equivalent standard penetration blows/foot.)	
140								
144								
148								
152								
156								

APPENDIX D

Well Development and Groundwater Sampling Field Data Sheets

MONITORING WELL
OBSERVATION SUMMARY SHEET

CLIENT FACILITY #: TOSCO 76 #7396 G-R JOB #: 140107.04

LOCATION: 4191 FIRST STREET DATE: 11/29/99

CITY: PLEASANTON, CA TIME: _____

Well ID	Total Depth	Depth to Water	Product Thickness	TOB or TOC	Comments
MW-9	98.20'	94.50'	∅	TOC	
MW-10	92.90	DRY	∅	TOC	

NOTE: APPROXIMATELY 110 GALLONS OF WATER WERE PUMPED FROM 3 DRUMS (LABELED 11/21/99 RINSATE MW-10 & B-13) AND SILT WAS ~~[illegible]~~ REMOVED FROM THE DRUMS AND ADDED TO THE EXISTING STOCKPILE (DRILL CUTTINGS).

Comments: _____

Sampler: HAIG KEVORK Assistant: N/A

sumsheet11/96

WELL MONITORING/DEVELOPMENT
FIELD DATA SHEET

Client/ Facility: TOSCO 76 #7376 Job#: 140107.04

Address: 4191 FIRST STREET Date: 11/29/99

City: PLEASANTON, CA Sampler: HAIG KEVORK

Well ID: MW-9 Well Condition: OK

Well Diameter: 2 in. Hydrocarbon Thickness: Ø Ft. Amount Bailed (product/water): Ø (gal.)

Total Depth: 18.20 ft.

Depth to Water: 14.50 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

3.70 x VF 0.17 = 0.629 x 10 (case volume) = Estimated Purge Volume: 6.29 (gal.)

Purge Equipment: [Bailer] Disposable Bailer, Stack, Suction, Grundfos, Other: _____

Sampling Equipment: N/A — Disposable Bailer, Bailer, Pressure Bailer, Grab Sample, Other: _____

Starting Time: 14:15 Weather Conditions: CLOUDY

Sampling Time: N/A Water Color: _____ Odor: _____

Purging Flow Rate: _____ gpm. Sediment Description: _____

Did well de-water? NO If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °C	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
14:16	0.5	7.63	403	19.4			
	1	7.51	429	18.9			
	1.5	7.40	468	18.6			
	2	7.33	480	18.2			
	3	7.28	486	18.0			
	3.5	7.24	492	17.9			
	4	7.18	497	17.7			
	5	7.16	499	17.7			
	5.5	7.15	502	17.6			
14:45	6	7.13	497	17.7			

LABORATORY INFORMATION (N/A)

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES

COMMENTS: _____

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ Facility # Tosco 7376 — Job#: 180075

Address: 4191 First St. — Date: 12/6/99

City: Pleasanton — Sampler: Vartkes

Well ID: MW-1 — Well Condition: OK

Well Diameter: 2 in. — Hydrocarbon Thickness: Ø (feet) — Amount Bailed (product/water): Ø (Gallons)

Total Depth: 86.43 ft.

Depth to Water: 79.74 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80

6.69 x VF 0.17 = 1.13 X 3 (case volume) = Estimated Purge Volume: 3.41 (gal.)

Purge Equipment: Disposable Bailer; Bailer; Stack; Suction; (Grundfos); Other: _____

Sampling Equipment: (Disposable Bailer); Bailer; Pressure Bailer; Grab Sample; Other: _____

Starting Time: 11:16 — Weather Conditions: cloudy

Sampling Time: 11:40 — Water Color: clear — Odor: no

Purging Flow Rate: 0.5 gpm. — Sediment Description: _____

Did well de-water? no — If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm x100	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
11:18	1	7.54	8.58	68.7			
11:20	2	7.40	8.45	69.2			
11:23	3.5	7.32	8.41	69.4			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	3 x 40ml/VOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe
MW-1	1 Amber	"	NONE	"	TPH-D

COMMENTS: _____

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ Facility # Tosco 7376 — Job#: 180075

Address: 4191 First st. — Date: 12/6/99

City: Pleasanton — Sampler: Vartkes

Well ID: MW-2B — Well Condition: ok

Well Diameter: 2 in. — Hydrocarbon Thickness: 0 (feet) — Amount Bailed (product/water): 0 (Gallons)

Total Depth: 85.25 ft.

Depth to Water: 84.41 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80

0.84 X VF 0.17 = 0.14 X 3 (case volume) = Estimated Purge Volume: 0.42 (gal.)

Purge Equipment: (Disposable Bailer) / Bailer / Stack / Suction / Grundfos / Other: _____

Sampling Equipment: (Disposable Bailer) / Bailer / Pressure Bailer / Grab Sample / Other: _____

Starting Time: 2:00 — Weather Conditions: cldy

Sampling Time: 2:19 — Water Color: brn — Odor: _____

Purging Flow Rate: _____ gpm. — Sediment Description: silt

Did well de-water? no — If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm X100	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
2:05	0.25	7.20	11.50	68.4			
2:08	0.5	7.08	11.35	68.7			
2:11	1.	7.03	11.32	68.9			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2B	3 x 40ml/VOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe
MW-2B	1 Amber	"	NONE	"	TPH-D

COMMENTS: _____

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WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ Facility # Tosco 7376 — Job#: 180075

Address: 4191 First St. — Date: 12/6/99

City: Pleasanton — Sampler: Vartkes

Well ID: MW-3 — Well Condition: OK

Well Diameter: 2 in. — Hydrocarbon Thickness: Ø (feet) — Amount Bailed (product/water): Ø (Gallons)

Total Depth: 94.11 ft.

Depth to Water: 83.41 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80

10.70 x VF 0.17 = 1.81 X 3 (case volume) = Estimated Purge Volume: 5.45 (gal.)

Purge Equipment: Disposable Bailer; Bailer; Stack; Suction; ~~Grundfos~~; Other: _____

Sampling Equipment: (Disposable Bailer); Bailer; Pressure Bailer; Grab Sample; Other: _____

Starting Time: 2:35 — Weather Conditions: Cloudy

Sampling Time: 2:58 — Water Color: clear — Odor: N

Purging Flow Rate: 1 gpm. — Sediment Description: _____

Did well de-water? no — If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
2:37	2	7.03	9.28	69.5			
2:39	4	6.85	9.37	69.1			
2:41	5.5	6.81	9.39	69.0			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	3 x 40m/VOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe
MW-3	1 Amber	"	NONE	"	TPH-D

COMMENTS: _____

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ Facility # Tosco 7376 — Job#: 180075

Address: 4191 First St. — Date: 12/6/99

City: Pleasanton — Sampler: Vartkes

Well ID: MW-4 — Well Condition: OK

Well Diameter: 2 in. — Hydrocarbon Thickness: 0 (feet) — Amount Bailed (product/water): 0 (Gallons)

Total Depth: 93.01 ft.

Depth to Water: 92.23 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80

0.78 x VF 0.17 = 0.13 X 3 (case volume) = Estimated Purge Volume: 0.39 (gal.)

Purge Equipment: (Disposable Bailer), Bailer, Stack, Suction, Grundfos, Other: _____

Sampling Equipment: (Disposable Bailer), Bailer, Pressure Bailer, Grab Sample, Other: _____

Starting Time: 10:45 — Weather Conditions: Overcast

Sampling Time: 11:00 — Water Color: brown — Odor: no

Purging Flow Rate: _____ gpm. — Sediment Description: Sand-silt

Did well de-water? no — If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
10:50	0.25	7.58	7.29	65.3			
10:54	0.5	7.49	7.17	66.0			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	3x40m/VOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe
MW-4	1 Amber	"	NONE	"	TPH-D

COMMENTS: _____

WELL MONITORING/SAMPLING

FIELD DATA SHEET

Client/ Facility # Tosco 7376 — Job#: 180075

Address: 4191 First st. — Date: 12/6/99

City: Pleasanton — Sampler: Vartkes

Well ID: MW-5 — Well Condition: OK

Well Diameter: 2 in. — Hydrocarbon Thickness: 0.82 (feet) — Amount Bailed (product/water): * 0 (Gallons)

Total Depth: 72.52 ft.

Depth to Water: 70.02 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment: Disposable Bailer; Bailer; Stack; Suction; Grundfos; Other: _____

Sampling Equipment: Disposable Bailer; Bailer; Pressure Bailer; Grab Sample; Other: _____

Starting Time: _____ — Weather Conditions: _____

Sampling Time: _____ — Water Color: _____ — Odor: _____

Purging Flow Rate: _____ gpm. — Sediment Description: _____

Did well de-water? _____ — If yes; Time: _____ — Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	3x40ml VOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe
MW-	1 Amber	"	NONE	"	TPH-D

COMMENTS: Not Sampled due to the presence of Free Product.
* No product bailed / Deanna's instruction.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ Facility # Tosco 7376 — Job#: 180075

Address: 4191 First st. — Date: 12/6/99

City: Pleasanton — Sampler: Vartkes

Well ID: MW-6 — Well Condition: OK

Well Diameter: 2 in. — Hydrocarbon Thickness: 0 (feet) — Amount Bailed (product/water): 0 (Gallons)

Total Depth: 88.00 ft.

Depth to Water: DRY ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66
	6" = 1.50	12" = 5.80	

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment:
- Disposable Bailer
- Bailer
- Stack
- Suction
- Grundfos
- Other: _____

Sampling Equipment:
- Disposable Bailer
- Bailer
- Pressure Bailer
- Grab Sample
- Other: _____

Starting Time: _____ — Weather Conditions: _____

Sampling Time: _____ — Water Color: _____ — Odor: _____

Purging Flow Rate: _____ gpm. — Sediment Description: _____

Did well de-water? _____ — If yes; Time: _____ — Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW	3x40ml VOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe
MW	1 Amber	"	NONE	"	TPH-D

COMMENTS: Well is DRY

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ Facility # Tosco 7376 — Job#: 180075

Address: 4191 First st. — Date: 12/6/99

City: Pleasanton — Sampler: Vartkes

Well ID: MW-7 — Well Condition: OK

Well Diameter: 2 in. — Hydrocarbon Thickness: 0 (feet) — Amount Bailed (product/water): 0 (Gallons)

Total Depth: 76.90 ft.

Depth to Water: 70.18 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80

6.72 x VF 0.17 = 1.14 x 3 (case volume) = Estimated Purge Volume: 3.42 (gal.)

Purge Equipment: Disposable Bailer; Bailer; Stack; Suction; (Grundfos); Other: _____

Sampling Equipment: (Disposable Bailer); Bailer; Pressure Bailer; Grab Sample; Other: _____

Starting Time: 1:20 — Weather Conditions: cldy

Sampling Time: 1:41 — Water Color: brn — Odor: ~~no~~ Y

Purging Flow Rate: 1 gpm. — Sediment Description: Slt

Did well de-water? no — If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
1:21	1	7.04	10.88	69.0			
1:23	2.5	6.91	10.96	68.4			
1:25	3.5	6.83	11.03	68.1			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-7	3 x 40ml/VOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe
MW-7	1 Amber	~	NONE	~	TPH-D

COMMENTS: _____

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ Facility # Tosco 7376 — Job#: 180075

Address: 4191 First St. — Date: 12/6/99

City: Pleasanton — Sampler: Vartkes

Well ID: MW-8 — Well Condition: ok

Well Diameter: 2 in. — Hydrocarbon Thickness: 0 (feet) — Amount Bailed (product/water): 0 (Gallons)

Total Depth: 86.40 ft.

Depth to Water: 74.98 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80

11.42 x VF 0.17 = 1.94 X 3 (case volume) = Estimated Purge Volume: 5.82 (gal.)

Purge Equipment: Disposable Bailer; Bailer; Stack; Suction; ~~Grundfos~~; Other: _____

Sampling Equipment: (Disposable Bailer); ~~Bailer~~; Pressure Bailer; Grab Sample; Other: _____

Starting Time: 12:40 — Weather Conditions: dry

Sampling Time: 1:02 — Water Color: brn — Odor: no

Purging Flow Rate: 1 gpm. — Sediment Description: silt

Did well de-water? no — If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm x20	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
12:42	2	7.39	9.22	67.4			
12:44	4	7.20	9.08	67.8			
12:46	6	7.14	9.03	68.1			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-8	3 x 40ml VOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe
MW-8	1 Amber	~	NONE	~	TPH-D

COMMENTS: _____

WELL MONITORING/SAMPLING

FIELD DATA SHEET

Client/ Facility # Tosco 7376 — Job#: 180075

Address: 4191 First St. — Date: 12/6/99

City: Pleasanton — Sampler: Vartkes

Well ID: MW-9 — Well Condition: ok

Well Diameter: 2 in. — Hydrocarbon Thickness: 0 (feet) — Amount Bailed (product/water): 0 (Gallons)

Total Depth: 78.20 ft.

Depth to Water: 74.35 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80

3.85 X VF 0.17 = 0.65 X 3 (case volume) = Estimated Purge Volume: 1.96 (gal.)

Purge Equipment: (Disposable Bailer) Bailer, Stack, Suction, Grundfos, Other: _____

Sampling Equipment: (Disposable Bailer) Bailer, Pressure Bailer, Grab Sample, Other: _____

Starting Time: 12:05 — Weather Conditions: cloudy

Sampling Time: 12:25 — Water Color: brn — Odor: no

Purging Flow Rate: _____ gpm. — Sediment Description: silt

Did well de-water? no — If yes; Time: _____ — Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm X/100	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
12:07	0.5	7.15	7.84	69.3			
12:13	1	7.03	7.82	68.8			
12:18	2	6.96	7.79	68.9			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-9	3 x 40ml VOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe
MW-9	1 Amber	~	NONE	~	TPH-D

COMMENTS: _____

9/97-fieldst.frm

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/ Facility # Tosco 7376 — Job#: 180075

Address: 4191 First st. — Date: 12/6/99

City: Pleasanton — Sampler: Vartkes

Well ID: MW-10 — Well Condition: OK

Well Diameter: 2 in. — Hydrocarbon Thickness: 0 (feet) — Amount Bailed (product/water): 0 (Gallons)

Total Depth: 92.90 ft.

Depth to Water: DRY ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80

_____ X VF _____ = _____ X 3 (case volume) = Estimated Purge Volume: _____ (gal.)

Purge Equipment: Disposable Bailer; Bailer; Stack; Suction; Grundfos; Other: _____

Sampling Equipment: Disposable Bailer; Bailer; Pressure Bailer; Grab Sample; Other: _____

Starting Time: _____ — Weather Conditions: _____

Sampling Time: _____ — Water Color: _____ — Odor: _____

Purging Flow Rate: _____ gpm. — Sediment Description: _____

Did well de-water? _____ — If yes; Time: _____ — Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-	3x40ml VOA	Y	HCl	SEQUOIA	TPH(G)/btex/mtbe
MW-	1 Amber	~	NONE	~	TPH-D

COMMENTS: Well is DRY

APPENDIX E

Surveyor's Report

Virgil Chavez Land Surveying
312 Georgia Street, Suite 200
Vallejo, California 94590-5907
(707) 553-2476 • Fax (707) 553-8698

December 1, 1999
Project No. 1604-20

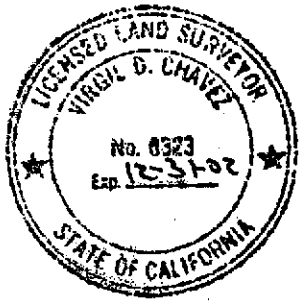
Clyde Galantine
Gettler-Ryan, Inc.
6747 Sierra Ct. Suite J
Dublin, Ca. 94568

Subject: Monitoring Well Survey
Unocal Service Sta. #7376
4191 First Street
Pleasanton, Ca.

Dear Clyde:

This is to confirm that we have proceeded at your request to survey the locations and elevations of MW-9, MW-10, and boring "B-13", at the above referenced location. The survey was performed on November 26, 1999. The benchmark for the survey was a cut "+" on a concrete transformer pad on the north side of the property to the northwest of this site. The coordinates are based on the same datum as used for previous surveys of this site.
Benchmark Elev. = 353.92 feet, MSL.

Well No.	Rim/Ground Elevation	TOC Elevation	Northing	Easting
MW - 9	352.68 Grd	354.85'	5280.415	5073.902
MW -10	363.14 Rim	362.62'	5095.175	5126.269
B -13	364.65 Grd	---	5040.891	5015.039



Sincerely,

Virgil D. Chavez, PLS 6323

APPENDIX F

Laboratory Reports and Chain-of-Custody Forms

Sequoia
Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

8 November, 1999

Clyde Galantine
Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin, CA 94568

RE: Tosco

Enclosed are the results of analyses for samples received by the laboratory on 20-Oct-99 16:01. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Julianne Fegley
Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	08-Nov-99 11:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-9-16	W910429-01	Soil	07-Oct-99 09:40	20-Oct-99 16:01
MW-9-30.5	W910429-02	Soil	07-Oct-99 09:55	20-Oct-99 16:01
MW-9-41	W910429-03	Soil	07-Oct-99 10:05	20-Oct-99 16:01
MW-9-46.5	W910429-04	Soil	07-Oct-99 10:10	20-Oct-99 16:01
MW-9-60.5	W910429-05	Soil	07-Oct-99 11:40	20-Oct-99 16:01

Julianne Fegley, Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	08-Nov-99 11:40

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-9-16 (W910429-01) Soil Sampled: 07-Oct-99 09:40 Received: 20-Oct-99 16:01									**O-04**
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	9J22008	22-Oct-99	22-Oct-99	DHS LUFT	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.050	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*91.7 %*	*40-140*		"	"	"	"	
MW-9-30.5 (W910429-02) Soil Sampled: 07-Oct-99 09:55 Received: 20-Oct-99 16:01									**O-04**
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	9J22008	22-Oct-99	22-Oct-99	DHS LUFT	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.050	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*105 %*	*40-140*		"	"	"	"	
MW-9-41 (W910429-03) Soil Sampled: 07-Oct-99 10:05 Received: 20-Oct-99 16:01									**O-04**
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	9J22008	22-Oct-99	22-Oct-99	DHS LUFT	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.050	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*93.3 %*	*40-140*		"	"	"	"	

Julianne Fegley, Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	08-Nov-99 11:40

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-9-46.5 (W910429-04) Soil Sampled: 07-Oct-99 10:10 Received: 20-Oct-99 16:01									**O-04**
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	9J22008	22-Oct-99	22-Oct-99	DHS LUFT	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.050	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*95.0 %*		*40-140*		"	"	"	
MW-9-60.5 (W910429-05) Soil Sampled: 07-Oct-99 11:40 Received: 20-Oct-99 16:01									**O-04**
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	9J22008	22-Oct-99	22-Oct-99	DHS LUFT	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.050	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*90.0 %*		*40-140*		"	"	"	

Julianne Fegley, Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568	Project: Tosco Project Number: Tosco # 7376 Project Manager: Clyde Galantine	**Reported:** 08-Nov-99 11:40

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9J22008: Prepared 22-Oct-99 Using EPA 5030B [MeOH]										
Blank (9J22008-BLK1)										
Purgeable Hydrocarbons	ND	1.0	mg/kg							
Benzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Methyl tert-butyl ether	ND	0.050	"							
Surrogate: a,a,a-Trifluorotoluene	*0.646*		"	*0.600*		*108*	*40-140*			
LCS (9J22008-BS1)										
Benzene	0.876	0.0050	mg/kg	0.800		109	50-150			
Toluene	0.746	0.0050	"	0.800		93.2	50-150			
Ethylbenzene	0.776	0.0050	"	0.800		97.0	50-150			
Xylenes (total)	2.60	0.0050	"	2.40		108	50-150			
Surrogate: a,a,a-Trifluorotoluene	*0.560*		"	*0.600*		*93.3*	*40-140*			
LCS Dup (9J22008-BSD1)										
Benzene	0.860	0.0050	mg/kg	0.800		108	50-150	1.84	20	
Toluene	0.742	0.0050	"	0.800		92.7	50-150	0.538	20	
Ethylbenzene	0.798	0.0050	"	0.800		99.7	50-150	2.80	20	
Xylenes (total)	2.68	0.0050	"	2.40		112	50-150	3.03	20	
Surrogate: a,a,a-Trifluorotoluene	*0.588*		"	*0.600*		*98.0*	*40-140*			
Matrix Spike (9J22008-MS1)					**Source: W910426-02**					
Benzene	0.804	0.0050	mg/kg	0.800	ND	101	50-150			
Toluene	0.670	0.0050	"	0.800	ND	83.8	50-150			
Ethylbenzene	0.732	0.0050	"	0.800	ND	91.5	50-150			
Xylenes (total)	2.39	0.0050	"	2.40	0.0082	99.2	50-150			
Surrogate: a,a,a-Trifluorotoluene	*0.486*		"	*0.600*		*81.0*	*40-140*			

Sequoia Analytical - Walnut Creek

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Julianne Fegley, Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	08-Nov-99 11:40

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9J22008: Prepared 22-Oct-99 Using EPA 5030B [MeOH]										
Matrix Spike Dup (9J22008-MSD1)					**Source: W910426-02**					
Benzene	0.828	0.0050	mg/kg	0.800	ND	103	50-150	2.94	20	
Toluene	0.702	0.0050	"	0.800	ND	87.8	50-150	4.66	20	
Ethylbenzene	0.748	0.0050	"	0.800	ND	93.5	50-150	2.16	20	
Xylenes (total)	2.44	0.0050	"	2.40	0.0082	101	50-150	2.07	20	
Surrogate: a,a,a-Trifluorotoluene	*0.502*		"	*0.600*		*83.7*	*40-140*			

Julianne Fegley, Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	08-Nov-99 11:40

Notes and Definitions

O-04	This sample was analyzed outside the EPA recommended holding time.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Julianne Fegley, Project Manager

TOSCO

☐ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
☒ 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673
☐ 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342
☐ 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Consultant Company: Gettler-Ryan 140107.04	Project Name: 7376 W910429
Address: 6747 Sierra Ct Suite J	TOSCO Engineer (required) Dave DeWitt
City: Dublin State: CA Zip Code: 94568	
Telephone: 925 551-7555 FAX #: 551-7888	Site #, City, State: #7376 Pleasanton
Report To: Clyde Galantine Sampler: Clyde Galantine	QC Data: ☐ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time: ☐ 10 Work Days ☐ 5 Work Days ☐ 3 Work Days ☐ 2 Work Days ☐ 1 Work Day ☐ 2-8 Hours

☐ Drinking Water ☐ Waste Water ☐ Other

CODE: ☐ Misc. ☒ Detect. ☐ Eval. ☐ Remed. ☐ Demol. ☐ Closure

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH (EPA 8015 Mod. Gas)	BTEX (EPA 8020)	MTBE (EPA 8020)	TPH (EPA 8015 Mod. Diesel)	Volatile Organics (EPA 8260)	MTBE Confirmation (EPA 8260)			Comments
1. MW-9-6	10/7/99 930	Soil	1	tube										
2. MW-9-[illegible]	925	↓	↓	↓										
3. MW-9-16	940				01A	X	X	X		X				
4. MW-9-21	945													
5. MW-9-26	950													
6. MW-9-[illegible]8.5	955				02A	X	X	X		X				
7. MW-9-41	1005				03A	X	X	X		X				
8. MW-9-46.5	1010				04A	X	X	X		X				
9. MW-9-51	1020													
10. MW-9-56	1100	↓	↓	↓										

Relinquished By: Clyde Galantine	Date: 10/7/99	Time: 16:15	Received By: [illegible]	Date: 10-7-99	Time: 16:37
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment______ Page ___ of ___

To be completed upon receipt of report:
1) Were the analyses requested on the Chain of Custody reported? ☐ Yes ☐ No If no, what analyses are still needed? ______
2) Was the report issued within the requested turnaround time? ☐ Yes ☐ No If no, what was the turnaround time? ______

Approved by:______ Signature:______ Company:______ Date:______

Pink - Client
Yellow - Sequoia
White - Sequoia

No. 000524

TOSCO

☐ 885 Jarvis Drive • Morgan Hill, CA 95037 • (408) 776-9600 • FAX (408) 782-6308
☐ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
☒ 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673
☐ 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342
☐ 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Consultant Company: Gettler-Ryan 1401.07.04	Project Name: 7376 W910429
Address: 6747 Sierra Ct Suite J	TOSCO Engineer (required) Dave DeLuiff
City: Dublin State: CA Zip Code: 94568	
Telephone: (925) 551-7555 FAX #: 551-7888	Site #, City, State: # 7376 Hayward, CA
Report To: Clyde Galantine Sampler: Clyde Galantine	QC Data: ☐ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time: ☐ 10 Work Days ☐ 5 Work Days ☐ 3 Work Days ☐ 2 Work Days ☐ 1 Work Day ☐ 2-8 Hours

CODE: ☐ Misc. ☒ Detect. ☐ Eval. ☐ Remed. ☐ Demol. ☐ Closure

☐ Drinking Water ☐ Waste Water ☐ Other

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH (EPA 8015 Mod. Gas)	BTEX (EPA 8020)	MTBE (EPA 8020)	TPH (EPA 8015 Mod. Diesel)	Volatile Organics (EPA 8260)	MTBE Confirmation (EPA 8260)	Comments
1. MW-9-60.5	10/7/99 11:40	Soil	1	tube	05A	X	X	X			X	
2. MW-9-71.5	11:55		1									
3. MW-9-76	12:00		1									
4.												
5.												
6.												
7.												
8.												
9.												
10.												

Relinquished By: Clyde Galantine	Date: 10/9/99	Time: 16:15	Received By:	Date:	Time: 16:30
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Were Samples Received In Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment _____ Page ___ of ___

To be completed upon receipt of report:
1) Were the analyses requested on the Chain of Custody reported? ☐ Yes ☐ No If no, what analyses are still needed? _____
2) Was the report issued within the requested turnaround time? ☐ Yes ☐ No If no, what was the turnaround time? _____

Approved by: _____ Signature: _____ Company: _____ Date: _____

Pink - Client
Yellow - Sequoia
White - Sequoia

11-3-99

WORK ORDER

Sequoia Analytical - Walnut Creek

W910429

Client: Gettler Ryan, Inc. - Dublin

Project Tosco **Project Number: Tosco # 7376**

Report To:
Gettler Ryan, Inc. - Dublin
Clyde Galantine
6747 Sierra Court Suite J
Dublin, CA 94568
Phone: 551-7444x111
Fax: 925-551-7999

Invoice To:
Gettler Ryan, Inc. - Dublin
Accounts Payable
6747 Sierra Court Suite J
Dublin, CA 94568
Phone :551-7444x111
Fax: 925-551-7999

Project Manager:	Julianne Fegley	Date Due:	03-Nov-99 20:00 (10 day TAT)
Received By:	Ron Jensen	Date Received:	20-Oct-99 16:01
Logged In By:	Ron Jensen	Date Logged In:	21-Oct-99 10:55

Samples Received at:	6°C	Samples taken off hold on 10/20/99.
All containers intact:	Yes	
Sample labels/COC agree:	Yes	
Samples Preserved Properly:	Yes	
Custody Seals Present:	No	

Analysis		Due	TAT	Expires	Comments
W910429-01	**MW-9-16**	**Soil**	**Sampled: 07-Oct-99 09:40**		
TPH-G/B/M		03-Nov-99 20:00	10	21-Oct-99 09:40	Confirm MTBE by 8260.
W910429-02	**MW-9-30.5**	**Soil**	**Sampled: 07-Oct-99 09:55**		
TPH-G/B/M		03-Nov-99 20:00	10	21-Oct-99 09:55	Confirm MTBE by 8260.
W910429-03	**MW-9-41**	**Soil**	**Sampled: 07-Oct-99 10:05**		
TPH-G/B/M		03-Nov-99 20:00	10	21-Oct-99 10:05	Confirm MTBE by 8260.
W910429-04	**MW-9-46.5**	**Soil**	**Sampled: 07-Oct-99 10:10**		
TPH-G/B/M		03-Nov-99 20:00	10	21-Oct-99 10:10	Confirm MTBE by 8260.
W910429-05	**MW-9-60.5**	**Soil**	**Sampled: 07-Oct-99 11:40**		
TPH-G/B/M		03-Nov-99 20:00	10	21-Oct-99 11:40	Confirm MTBE by 8260.

Reviewed By

10/21/99
Date

№ 000523

TOSCO

☐ 885 Jarvis Drive • Morgan Hill, CA 95037 • (408) 776-9600 • FAX (408) 782-6308
☐ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
☒ 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673
☐ 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342
☐ 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Consultant Company: Geffler-Ryan 140107.04		Project Name: 7376 W910429	
Address: 6747 Sierra Ct Suite J		TOSCO Engineer (required) Dave DeWitt	
City: Dublin	State: CA Zip Code: 94568		
Telephone: 925 551-7555	FAX #: 551-7888	Site #, City, State: # 7376 Pleasanton	
Report To: Clyde Galantine	Sampler: Clyde Galantine	QC Data: ☐ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A	

Turnaround Time: ☐ 10 Work Days ☐ 5 Work Days ☐ 3 Work Days ☐ 2 Work Days ☐ 1 Work Day ☐ 2-8 Hours

CODE: ☐ Misc. ☒ Detect. ☐ Eval. ☐ Remed. ☐ Demol. ☐ Closure

☐ Drinking Water ☐ Waste Water ☐ Other

Analyses Requested

#	Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH (EPA 8015 Mod. Gas)	BTEX (EPA 8020)	MTBE (EPA 8020)	TPH (EPA 8015 Mod. Diesel)	Volatile Organics (EPA 8260)	MTBE Confirmation (EPA 8260)				Comments
1	MW-9-G	10/7/99 9:30	Soil	1	tube											
2	MW-9-11	9:25														
3	MW-9-16	9:40				01A	X	X	X		X					
4	MW-9-21	9:45														
5	MW-9-26	9:50														
6	MW-9-30.5	9:55				02A	X	X	X		X					
7	MW-9-41	10:05				03A	X	X	X		X					
8	MW-9-46.5	10:10				04A	X	X	X		X					
9	MW-9-51	10:20														
10	MW-9-56	11:00														

Relinquished By: Clyde Galantine	Date: 10/7/99	Time: 16:15	Received By:	Date: 10/7/99	Time: 16:37
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment_____ Page ___ of ___

To be completed upon receipt of report:
1) Were the analyses requested on the Chain of Custody reported? ☐ Yes ☐ No If no, what analyses are still needed? _____
2) Was the report issued within the requested turnaround time? ☐ Yes ☐ No If no, what was the turnaround time? _____
Approved by: _____ Signature: _____ Company: _____ Date: _____

Pink - Client
Yellow - Sequoia
White - Sequoia

№ 000524

TOSCO

☐ 885 Jarvis Drive • Morgan Hill, CA 95037 • (408) 776-9600 • FAX (408) 782-6308
☐ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
☒ 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673
☐ 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342
☐ 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Consultant Company: Cather-Ryan 140107.04	Project Name: 7376 W9910429
Address: 6747 Sierra Ct Suite J	TOSCO Engineer (required) Dave DeWitt
City: Dublin State: CA Zip Code: 94568	
Telephone: (925) 551-7555 FAX #: 551-7888	Site #, City, State: # 7376 Pleasanton, CA
Report To: Clyde Coglantin Sampler: Clyde Coglantine	QC Data: ☐ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time: ☐ 10 Work Days ☐ 5 Work Days ☐ 3 Work Days ☐ 2 Work Days ☐ 1 Work Day ☐ 2-8 Hours

☐ Drinking Water ☐ Waste Water ☐ Other

CODE: ☐ Misc. ☒ Detect. ☐ Eval. ☐ Remed. ☐ Demol. ☐ Closure

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH (EPA 8015 Mod. Gas)	BTEX (EPA 8020)	MTBE (EPA 8020)	TPH (EPA 8015 Mod. Diesel)	Volatile Organics (EPA 8260)	MTBE Confirmation (EPA 8260)			Comments
1. MW-9-60.5	10/7/99 11:40	Soil	1	tube	05A	X	X	X			X			
2. MW-9-71.5	11:55		1											
3. MW-9-76	12:00		1											
4.														
5.														
6.														
7.														
8.														
9.														
10.														

Relinquished By: Clyde Coglantin	Date: 10/9/99	Time: 16:15	Received By:	Date: 10/9/99	Time: 16:30
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment_____ Page ___ of ___

To be completed upon receipt of report:
1) Were the analyses requested on the Chain of Custody reported? ☐ Yes ☐ No If no, what analyses are still needed? _____
2) Was the report issued within the requested turnaround time? ☐ Yes ☐ No If no, what was the turnaround time? _____

Pink - Client
Yellow - Sequoia
White - Sequoia

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

22 October, 1999

Clyde Galantine
Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin, CA 94568

RE: Tosco

Enclosed are the results of analyses for samples received by the laboratory on 07-Oct-99 18:06. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Julianne Fegley
Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	22-Oct-99 09:23

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G-1	W910154-01	Water	07-Oct-99 11:30	07-Oct-99 18:06

Julianne Fegley, Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	22-Oct-99 09:23

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
G-1 (W910154-01) Water Sampled: 07-Oct-99 11:30 Received: 07-Oct-99 18:06									
Purgeable Hydrocarbons	ND	50	ug/l	1	9J18013	13-Oct-99	18-Oct-99	DHS LUFT	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**88**	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*90.0 %*	*70-130*		"	"	"	"	

Sequoia Analytical - Walnut Creek

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Julianne Fegley, Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	22-Oct-99 09:23

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9J18013: Prepared 13-Oct-99 Using EPA 5030B [P/T]										
Blank (9J18013-BLK1)										
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*27.4*		"	*30.0*		*91.3*	*70-130*			
LCS (9J18013-BS1)										
Benzene	19.2	0.50	ug/l	20.0		96.0	70-130			
Toluene	17.5	0.50	"	20.0		87.5	70-130			
Ethylbenzene	18.8	0.50	"	20.0		94.0	70-130			
Xylenes (total)	61.4	0.50	"	60.0		102	70-130			
Surrogate: a,a,a-Trifluorotoluene	*27.0*		"	*30.0*		*90.0*	*70-130*			
Matrix Spike (9J18013-MS1)					**Source: W910216-02**					
Benzene	19.2	0.50	ug/l	20.0	ND	96.0	70-130			
Toluene	17.4	0.50	"	20.0	ND	87.0	70-130			
Ethylbenzene	19.2	0.50	"	20.0	ND	96.0	70-130			
Xylenes (total)	61.0	0.50	"	60.0	ND	102	70-130			
Surrogate: a,a,a-Trifluorotoluene	*25.2*		"	*30.0*		*84.0*	*70-130*			
Matrix Spike Dup (9J18013-MSD1)					**Source: W910216-02**					
Benzene	18.8	0.50	ug/l	20.0	ND	94.0	70-130	2.11	20	
Toluene	17.1	0.50	"	20.0	ND	85.5	70-130	1.74	20	
Ethylbenzene	19.4	0.50	"	20.0	ND	97.0	70-130	1.04	20	
Xylenes (total)	60.6	0.50	"	60.0	ND	101	70-130	0.658	20	
Surrogate: a,a,a-Trifluorotoluene	*25.9*		"	*30.0*		*86.3*	*70-130*			

Sequoia Analytical - Walnut Creek

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Julianne Fegley, Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	22-Oct-99 09:23

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Julianne Fegley, Project Manager

№ 000379

TOSCO

❑ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
❑ 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673
❑ 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342
❑ 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Consultant Company: Gettler-Ryan 14016704	Project Name: #7376
Address: 6747 Sierra Ct Suite J	TOSCO Engineer (required) Dave DeWitt
City: Dublin State: CA Zip Code: 94568	W910154
Telephone: 925 551-7555 FAX #: 925 551-7888	Site #, City, State: 7376 Pleasanton, CA
Report To: Clyde Galentine Sampler: Clyde Galentine	QC Data: ❑ Level D (Standard) ❑ Level C ❑ Level B ❑ Level A

Turnaround Time: ☒ 10 Work Days ❑ 5 Work Days ❑ 3 Work Days ❑ 2 Work Days ❑ 1Work Day ❑ 2-8 Hours

❑ Drinking Water ❑ Waste Water ❑ Other

CODE: ❑ Misc. ❑ Detect. ❑ Eval. ❑ Remed. ❑ Demol. ❑ Closure

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH (EPA 8015 Mod. Gas)	BTEX (EPA 8020)	MTBE (EPA 8020)	TPH (EPA 8015 Mod. Diesel)	Volatile Organics (EPA 8260)	MTBE Confirmation (EPA 8260)	Comments
1. G-1	10/7/99 11:35	H_2O	4	VOA	01A-D	X	X	X				
2.												
3.												
4.												
5.												
6.												
7.												
8.												
9.												
10.												

Relinquished By: Clyde Galentine	Date: 10/7/99	Time: 1215	Received By: [illegible]	Date: 10/7/99	Time: 16:30
Relinquished By: [illegible]	Date: 10/7/99	Time: 18:05	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By: [illegible]	Date: 10/7/99	Time: 18:05

Were Samples Received in Good Condition? ❑ Yes ❑ No Samples on Ice? ❑ Yes ❑ No Method of Shipment_____ Page ___ of ___

To be completed upon receipt of report:

1) Were the analyses requested on the Chain of Custody reported? ❑ Yes ❑ No If no, what analyses are still needed? _____

2) Was the report issued within the requested turnaround time? ❑ Yes ❑ No If no, what was the turnaround time? _____

Approved by:_____ Signature: _____ Company:_____ Date:_____

Pink - Client

Yellow - Sequoia

White - Sequoia

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

22 October, 1999

Clyde Galantine
Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin, CA 94568

RE: Tosco

Enclosed are the results of analyses for samples received by the laboratory on 19-Oct-99 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Julianne Fegley
Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	22-Oct-99 08:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G-1	W910371-01	Water	19-Oct-99 11:30	19-Oct-99 16:30

Julianne Fegley, Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	22-Oct-99 08:38

MTBE Confirmation by EPA Method 8260A

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
G-1 (W910371-01) Water Sampled: 19-Oct-99 11:30 Received: 19-Oct-99 16:30									
Methyl tert-butyl ether	66	2.0	ug/l	1	9J15005	20-Oct-99	20-Oct-99	EPA 8260A	
Surrogate: Dibromofluoromethane		*82.0 %*	*50-150*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*78.0 %*	*50-150*		"	"	"	"	

Julianne Fegley, Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	22-Oct-99 08:38

MTBE Confirmation by EPA Method 8260A - Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9J15005: Prepared 15-Oct-99 Using EPA 5030B [P/T]										
Blank (9J15005-BLK1)										
Methyl tert-butyl ether	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	*52.0*		"	*50.0*		*104*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*56.0*		"	*50.0*		*112*	*50-150*			
Blank (9J15005-BLK2)										
Methyl tert-butyl ether	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	*50.0*		"	*50.0*		*100*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*60.0*		"	*50.0*		*120*	*50-150*			
LCS (9J15005-BS1)										
Methyl tert-butyl ether	59.2	2.0	ug/l	50.0		118	70-130			
Surrogate: Dibromofluoromethane	*52.0*		"	*50.0*		*104*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*55.0*		"	*50.0*		*110*	*50-150*			
LCS (9J15005-BS2)										
Methyl tert-butyl ether	50.7	2.0	ug/l	50.0		101	70-130			
Surrogate: Dibromofluoromethane	*48.0*		"	*50.0*		*96.0*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*52.0*		"	*50.0*		*104*	*50-150*			
LCS Dup (9J15005-BSD1)										
Methyl tert-butyl ether	59.9	2.0	ug/l	50.0		120	70-130	1.18	25	
Surrogate: Dibromofluoromethane	*53.0*		"	*50.0*		*106*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*57.0*		"	*50.0*		*114*	*50-150*			

Julianne Fegley, Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	22-Oct-99 08:38

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Julianne Fegley, Project Manager

TOSCO

☐ 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673
☐ 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342
☐ 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Consultant Company: Gettler-Ryan 140167.4	Project Name: #7376
Address: 6747 Sierra Ct Suite J	TOSCO Engineer (required) Dave DeWitt
City: Dublin State: CA Zip Code: 94568	W910371
Telephone: 925 551-7555 FAX #: 925 551-7899	Site #, City, State: 7376 Pleasanton, CA
Report To: Clyde Galantine Sampler: Clyde Galantine	QC Data: ☐ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time: ☒ 10 Work Days ☐ 5 Work Days ☐ 3 Work Days ☐ 2 Work Days ☐ 1 Work Day ☐ 2-8 Hours

☐ Drinking Water ☐ Waste Water ☐ Other

CODE: ☐ Misc. ☐ Detect. ☐ Eval. ☐ Remed. ☐ Demol. ☐ Closure

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH (EPA 8015 Mod. Gas)	BTEX (EPA 8020)	MTBE (EPA 8020)	TPH (EPA 8015 Mod. Diesel)	Volatile Organics (EPA 8260)	MTBE Confirmation (EPA 8260)				Comments
1. G-1	10/7/99 11:30	H_2O	4 ~~8~~	VOA		X	X	X			X				
2.															
3.															
4.															
5.															
6.															
7.															
8.															
9.															
10.															

Relinquished By: Clyde Galantine	Date: 10/7/99	Time: 12:15	Received By: [illegible]	Date: 10/7/99	Time: 16:30
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment______ Page __ of __

To be completed upon receipt of report:
1) Were the analyses requested on the Chain of Custody reported? ☐ Yes ☐ No If no, what analyses are still needed? ______
2) Was the report issued within the requested turnaround time? ☐ Yes ☐ No If no, what was the turnaround time? ______
Approved by: ______ Signature: ______ Company: ______ Date: ______

Pink - Client Yellow - Sequoia White - Sequoia

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

8 December, 1999

Clyde Galantine
Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin, CA 94568

RE: Tosco

Enclosed are the results of analyses for samples received by the laboratory on 22-Nov-99 16:01. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Julianne Fegley
Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	08-Dec-99 15:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-10-90	W911579-01	Water	21-Nov-99 14:45	22-Nov-99 16:01
MW-10-95	W911579-02	Water	21-Nov-99 16:40	22-Nov-99 16:01

Julianne Fegley, Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	08-Dec-99 15:41

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-10-90 (W911579-01) Water	**Sampled: 21-Nov-99 14:45**		**Received: 22-Nov-99 16:01**						
Purgeable Hydrocarbons	ND	50	ug/l	1	9K24001	24-Nov-99	24-Nov-99	EPA	
Benzene	ND	0.50	"	"	"	"	"	8015M/8020	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	**1.1**	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**28**	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*107 %*	*70-130*		"	"	"	"	
MW-10-95 (W911579-02) Water	**Sampled: 21-Nov-99 16:40**		**Received: 22-Nov-99 16:01**						**P-01**
Purgeable Hydrocarbons	**230**	100	ug/l	2	9K24001	24-Nov-99	24-Nov-99	EPA	
Benzene	ND	1.0	"	"	"	"	"	8015M/8020	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	**4.6**	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**52**	5.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*107 %*	*70-130*		"	"	"	"	

Julianne Fegley, Project Manager

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	08-Dec-99 15:41

MTBE Confirmation by EPA Method 8260A

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-10-90 (W911579-01) Water	**Sampled: 21-Nov-99 14:45**		**Received: 22-Nov-99 16:01**						
Methyl tert-butyl ether	**34**	2.0	ug/l	1	9L01009	03-Dec-99	03-Dec-99	EPA 8260A	
Surrogate: Dibromofluoromethane		*118 %*	*50-150*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*112 %*	*50-150*		"	"	"	"	
MW-10-95 (W911579-02) Water	**Sampled: 21-Nov-99 16:40**		**Received: 22-Nov-99 16:01**						
Methyl tert-butyl ether	**54**	2.0	ug/l	1	9L01009	03-Dec-99	03-Dec-99	EPA 8260A	
Surrogate: Dibromofluoromethane		*116 %*	*50-150*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*98.0 %*	*50-150*		"	"	"	"	

Julianne Fegley, Project Manager

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	08-Dec-99 15:41

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9K24001: Prepared 24-Nov-99 Using EPA 5030B [P/T]										
Blank (9K24001-BLK1)										
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*34.0*		"	*30.0*		*113*	*70-130*			
LCS (9K24001-BS1)										
Benzene	21.2	0.50	ug/l	20.0		106	70-130			
Toluene	21.2	0.50	"	20.0		106	70-130			
Ethylbenzene	20.8	0.50	"	20.0		104	70-130			
Xylenes (total)	64.2	0.50	"	60.0		107	70-130			
Surrogate: a,a,a-Trifluorotoluene	*30.7*		"	*30.0*		*102*	*70-130*			
Matrix Spike (9K24001-MS1)					**Source: W911548-05**					**Q-01**
Benzene	26.3	0.50	ug/l	20.0	ND	131	70-130			
Toluene	21.2	0.50	"	20.0	ND	106	70-130			
Ethylbenzene	20.6	0.50	"	20.0	ND	103	70-130			
Xylenes (total)	64.5	0.50	"	60.0	ND	108	70-130			
Surrogate: a,a,a-Trifluorotoluene	*30.6*		"	*30.0*		*102*	*70-130*			
Matrix Spike Dup (9K24001-MSD1)					**Source: W911548-05**					**Q-01**
Benzene	26.3	0.50	ug/l	20.0	ND	131	70-130	0	20	
Toluene	21.8	0.50	"	20.0	ND	109	70-130	2.79	20	
Ethylbenzene	21.0	0.50	"	20.0	ND	105	70-130	1.92	20	
Xylenes (total)	66.1	0.50	"	60.0	ND	110	70-130	2.45	20	
Surrogate: a,a,a-Trifluorotoluene	*31.3*		"	*30.0*		*104*	*70-130*			

Juliane Fegley, Project Manager

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	08-Dec-99 15:41

MTBE Confirmation by EPA Method 8260A - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9L01009: Prepared 03-Dec-99 Using EPA 5030B [P/T]										
Blank (9L01009-BLK2)										
Methyl tert-butyl ether	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	*50.9*		"	*50.0*		*102*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*45.1*		"	*50.0*		*90.2*	*50-150*			
LCS (9L01009-BS2)										
Methyl tert-butyl ether	51.7	2.0	ug/l	50.0		103	70-130			
Surrogate: Dibromofluoromethane	*50.5*		"	*50.0*		*101*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*44.1*		"	*50.0*		*88.2*	*50-150*			
Matrix Spike (9L01009-MS2)					**Source: W911580-08**					
Methyl tert-butyl ether	41.7	2.0	ug/l	50.0	3.4	76.6	60-150			
Surrogate: Dibromofluoromethane	*49.3*		"	*50.0*		*98.6*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*42.0*		"	*50.0*		*84.0*	*50-150*			
Matrix Spike Dup (9L01009-MSD2)					**Source: W911580-08**					
Methyl tert-butyl ether	54.2	2.0	ug/l	50.0	3.4	102	60-150	26.1	25	Q-07
Surrogate: Dibromofluoromethane	*52.0*		"	*50.0*		*104*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*45.2*		"	*50.0*		*90.4*	*50-150*			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Julianne Fegley, Project Manager

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	08-Dec-99 15:41

Notes and Definitions

P-01	Chromatogram Pattern: Gasoline C6-C12
Q-01	The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
Q-07	The RPD value for this QC sample is above the established control limit. Review of associated QC indicates the high RPD does not represent an out-of-control condition for the batch.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Julianne Fegley, Project Manager

N: 000376

TOSCO

☐ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
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☐ 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Consultant Company: Gettler-Ryan	Project Name: #7376
Address: 6747 Sierra Ct Suite J	TOSCO Engineer (required) Dave DeWitt
City: Dublin State: CA Zip Code: 94568	WA91579
Telephone: (925) 551-7555 FAX #: (925) 551-7888	Site #, City, State: #7376 Pleasanton
Report To: Clyde Galantine Sampler: Clyde Galantine	QC Data: ☐ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time: ☒ 10 Work Days ☐ 5 Work Days ☐ 3 Work Days ☐ 2 Work Days ☐ 1 Work Day ☐ 2-8 Hours

CODE: ☐ Misc. ☒ Detect. ☐ Eval. ☐ Remed. ☐ Demol. ☐ Closure

☐ Drinking Water ☐ Waste Water ☐ Other

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH (EPA 8015 Mod. Gas)	BTEX (EPA 8020)	MTBE (EPA 8020)	TPH (EPA 8015 Mod. Diesel)	Volatile Organics (EPA 8260)	MTBE Confirmation (EPA 8260)	Comments
1. MW-10-90	11/21/99 2:45	H_2O	3	VOAs	01A-C	X	X	X			X	
2. MW-10-95	4:45	"	2	"	02A-B	X	X	X			X	
3.												
4.												
5.												
6.												
7.												
8.												
9.												
10.												

Relinquished By: [signature]	Date: 11/22/99	Time: 6:30	Received By: [signature]	Date: 11/22/99	Time: 15:20
Relinquished By: [signature]	Date: 11/22/99	Time: 16:00	Received By: [signature]	Date: 11/22	Time: 16:00
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Pink - Client

Yellow - Sequoia

White - Sequoia

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment _____ Page ___ of ___

To be completed upon receipt of report:

1) Were the analyses requested on the Chain of Custody reported? ☐ Yes ☐ No If no, what analyses are still needed? _____

2) Was the report issued within the requested turnaround time? ☐ Yes ☐ No If no, what was the turnaround time? _____

Approved by: _____ Signature: _____ Company: _____ Date: _____

Sequoia
Analytical

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14 December, 1999

Clyde Galantine
Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin, CA 94568

RE: Tosco

Enclosed are the results of analyses for samples received by the laboratory on 01-Dec-99 13:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Julianne Fegley
Project Manager

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	14-Dec-99 12:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-13-7.5	W912014-01	Soil	22-Nov-99 08:50	01-Dec-99 13:45
B-13-15.5	W912014-02	Soil	22-Nov-99 09:05	01-Dec-99 13:45
B-13-28	W912014-03	Soil	22-Nov-99 09:50	01-Dec-99 13:45
B-13-38.5	W912014-04	Soil	22-Nov-99 10:40	01-Dec-99 13:45
B-13-46	W912014-05	Soil	22-Nov-99 10:55	01-Dec-99 13:45
B-13-51	W912014-06	Soil	22-Nov-99 11:00	01-Dec-99 13:45
B-13-57	W912014-07	Soil	22-Nov-99 11:25	01-Dec-99 13:45
B-13-63	W912014-08	Soil	22-Nov-99 11:35	01-Dec-99 13:45
B-13-73.5	W912014-09	Soil	22-Nov-99 12:05	01-Dec-99 13:45
B-13-85.5	W912014-10	Soil	22-Nov-99 13:40	01-Dec-99 13:45
B-13-98.5	W912014-11	Soil	22-Nov-99 14:45	01-Dec-99 13:45
MW-10-5.5	W912014-12	Soil	21-Nov-99 08:30	01-Dec-99 13:45
MW-10-16.5	W912014-13	Soil	21-Nov-99 08:50	01-Dec-99 13:45
MW-10-25.5	W912014-14	Soil	21-Nov-99 09:25	01-Dec-99 13:45
MW-10-38	W912014-15	Soil	21-Nov-99 09:50	01-Dec-99 13:45
MW-10-44	W912014-16	Soil	21-Nov-99 10:00	01-Dec-99 13:45
MW-10-56	W912014-17	Soil	21-Nov-99 10:45	01-Dec-99 13:45
MW-10-71	W912014-18	Soil	21-Nov-99 13:30	01-Dec-99 13:45
MW-10-82	W912014-19	Soil	21-Nov-99 13:50	01-Dec-99 13:45
MW-10-90.5	W912014-20	Soil	21-Nov-99 14:10	01-Dec-99 13:45

Juliann Pegley, Project Manager

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	14-Dec-99 12:44

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-13-7.5 (W912014-01) Soil **Sampled: 22-Nov-99 08:50** **Received: 01-Dec-99 13:45**									**P-07**
Purgeable Hydrocarbons	**93**	50	mg/kg	1000	9L03002	03-Dec-99	03-Dec-99	EPA 8015/8020	
Benzene	ND	0.25	"	"	"	"	"	"	
Toluene	**2.3**	0.25	"	"	"	"	"	"	
Ethylbenzene	ND	0.25	"	"	"	"	"	"	
Xylenes (total)	**1.1**	0.25	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*%*	*40-140*		"	"	"	"	*S-01*
B-13-15.5 (W912014-02) Soil **Sampled: 22-Nov-99 09:05** **Received: 01-Dec-99 13:45**									
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	9L03002	03-Dec-99	03-Dec-99	EPA 8015/8020	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.050	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*118 %*	*40-140*		"	"	"	"	
B-13-28 (W912014-03) Soil **Sampled: 22-Nov-99 09:50** **Received: 01-Dec-99 13:45**									**P-07**
Purgeable Hydrocarbons	**14000**	500	mg/kg	10000	9L03002	03-Dec-99	03-Dec-99	EPA 8015/8020	
Benzene	**100**	2.5	"	"	"	"	"	"	
Toluene	**92**	2.5	"	"	"	"	"	"	
Ethylbenzene	**240**	2.5	"	"	"	"	"	"	
Xylenes (total)	**1200**	2.5	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*%*	*40-140*		"	"	"	"	*S-01*

Juliannne Tegley, Project Manager

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	14-Dec-99 12:44

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-13-38.5 (W912014-04) Soil	**Sampled: 22-Nov-99 10:40**	**Received: 01-Dec-99 13:45**							**P-07**
Purgeable Hydrocarbons	**65**	10	mg/kg	200	9L03002	03-Dec-99	03-Dec-99	EPA	
Benzene	**0.40**	0.050	"	"	"	"	"	8015/8020	
Toluene	**0.088**	0.050	"	"	"	"	"	"	
Ethylbenzene	**0.092**	0.050	"	"	"	"	"	"	
Xylenes (total)	**0.31**	0.050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*132 %*	*40-140*		"	"	"	"	
B-13-46 (W912014-05) Soil	**Sampled: 22-Nov-99 10:55**	**Received: 01-Dec-99 13:45**							**P-07**
Purgeable Hydrocarbons	**330**	200	mg/kg	4000	9L03002	03-Dec-99	03-Dec-99	EPA	
Benzene	**6.7**	1.0	"	"	"	"	"	8015/8020	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	**7.0**	1.0	"	"	"	"	"	"	
Xylenes (total)	**21**	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	10	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*%*	*40-140*		"	"	"	"	*S-01*
B-13-51 (W912014-06) Soil	**Sampled: 22-Nov-99 11:00**	**Received: 01-Dec-99 13:45**							**P-07**
Purgeable Hydrocarbons	**72**	10	mg/kg	200	9L03002	03-Dec-99	03-Dec-99	EPA	
Benzene	**0.58**	0.050	"	"	"	"	"	8015/8020	
Toluene	**0.32**	0.050	"	"	"	"	"	"	
Ethylbenzene	**0.97**	0.050	"	"	"	"	"	"	
Xylenes (total)	**3.8**	0.050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*165 %*	*40-140*		"	"	"	"	*S-04*

Julianne Pegley, Project Manager

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	14-Dec-99 12:44

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-13-57 (W912014-07) Soil Sampled: 22-Nov-99 11:25 Received: 01-Dec-99 13:45									**P-07**
Purgeable Hydrocarbons	**6.2**	1.0	mg/kg	20	9L03002	03-Dec-99	03-Dec-99	EPA	
Benzene	**0.67**	0.0050	"	"	"	"	"	8015/8020	
Toluene	**0.30**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.068**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.24**	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	**0.18**	0.050	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*113 %*	*40-140*		"	"	"	"	
B-13-63 (W912014-08) Soil Sampled: 22-Nov-99 11:35 Received: 01-Dec-99 13:45									**P-01**
Purgeable Hydrocarbons	**2.0**	1.0	mg/kg	20	9L03002	03-Dec-99	03-Dec-99	EPA	
Benzene	**0.38**	0.0050	"	"	"	"	"	8015/8020	
Toluene	**0.22**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.013**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.16**	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.050	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*113 %*	*40-140*		"	"	"	"	
B-13-73.5 (W912014-09) Soil Sampled: 22-Nov-99 12:05 Received: 01-Dec-99 13:45									
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	9L03002	03-Dec-99	03-Dec-99	EPA	
Benzene	**0.0052**	0.0050	"	"	"	"	"	8015/8020	
Toluene	**0.0075**	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.024**	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	**0.058**	0.050	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*113 %*	*40-140*		"	"	"	"	

Julianne Fegley, Project Manager

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	14-Dec-99 12:44

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-13-85.5 (W912014-10) Soil Sampled: 22-Nov-99 13:40 Received: 01-Dec-99 13:45									
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	9L03002	03-Dec-99	03-Dec-99	EPA	
Benzene	ND	0.0050	"	"	"	"	"	8015/8020	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.050	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*108 %*	*40-140*		"	"	"	"	
B-13-98.5 (W912014-11) Soil Sampled: 22-Nov-99 14:45 Received: 01-Dec-99 13:45									
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	9L03002	03-Dec-99	03-Dec-99	EPA	
Benzene	ND	0.0050	"	"	"	"	"	8015/8020	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.050	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*118 %*	*40-140*		"	"	"	"	
MW-10-5.5 (W912014-12) Soil Sampled: 21-Nov-99 08:30 Received: 01-Dec-99 13:45									
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	9L02002	02-Dec-99	02-Dec-99	EPA	
Benzene	ND	0.0050	"	"	"	"	"	8015/8020	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.050	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*110 %*	*40-140*		"	"	"	"	

Juliane Tegley, Project Manager

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	14-Dec-99 12:44

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-10-16.5 (W912014-13) Soil Sampled: 21-Nov-99 08:50 Received: 01-Dec-99 13:45									
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	9L02002	02-Dec-99	02-Dec-99	EPA 8015/8020	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.050	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*102 %*	*40-140*		"	"	"	"	
MW-10-25.5 (W912014-14) Soil Sampled: 21-Nov-99 09:25 Received: 01-Dec-99 13:45									
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	9L02002	02-Dec-99	02-Dec-99	EPA 8015/8020	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.050	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*108 %*	*40-140*		"	"	"	"	
MW-10-38 (W912014-15) Soil Sampled: 21-Nov-99 09:50 Received: 01-Dec-99 13:45									**P-01**
Purgeable Hydrocarbons	**9.7**	5.0	mg/kg	100	9L02002	02-Dec-99	02-Dec-99	EPA 8015/8020	
Benzene	**0.035**	0.025	"	"	"	"	"	"	
Toluene	**0.034**	0.025	"	"	"	"	"	"	
Ethylbenzene	**0.062**	0.025	"	"	"	"	"	"	
Xylenes (total)	**0.11**	0.025	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.25	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*117 %*	*40-140*		"	"	"	"	

Julianne Pegley, Project Manager

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	14-Dec-99 12:44

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-10-44 (W912014-16) Soil Sampled: 21-Nov-99 10:00 Received: 01-Dec-99 13:45									
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	9L02002	02-Dec-99	02-Dec-99	EPA 8015/8020	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.050	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*127 %*		*40-140*	"	"	"	"	
MW-10-56 (W912014-17) Soil Sampled: 21-Nov-99 10:45 Received: 01-Dec-99 13:45									**P-04**
Purgeable Hydrocarbons	**240**	20	mg/kg	400	9L02002	02-Dec-99	02-Dec-99	EPA 8015/8020	
Benzene	**0.71**	0.10	"	"	"	"	"	"	
Toluene	**0.75**	0.10	"	"	"	"	"	"	
Ethylbenzene	**2.2**	0.10	"	"	"	"	"	"	
Xylenes (total)	**0.65**	0.10	"	"	"	"	"	"	
Methyl tert-butyl ether	**1.2**	1.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*283 %*		*40-140*	"	"	"	"	*S-04*
MW-10-71 (W912014-18) Soil Sampled: 21-Nov-99 13:30 Received: 01-Dec-99 13:45									
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	9L02002	02-Dec-99	02-Dec-99	EPA 8015/8020	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.050	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*125 %*		*40-140*	"	"	"	"	

Julianne Tegley, Project Manager

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	14-Dec-99 12:44

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-10-82 (W912014-19) Soil Sampled: 21-Nov-99 13:50 Received: 01-Dec-99 13:45									
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	9L03002	03-Dec-99	03-Dec-99	EPA	
Benzene	ND	0.0050	"	"	"	"	"	8015/8020	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.050	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*122 %*	*40-140*		"	"	"	"	
MW-10-90.5 (W912014-20) Soil Sampled: 21-Nov-99 14:10 Received: 01-Dec-99 13:45									
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	9L03002	03-Dec-99	03-Dec-99	EPA	
Benzene	ND	0.0050	"	"	"	"	"	8015/8020	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.050	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*118 %*	*40-140*		"	"	"	"	

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	14-Dec-99 12:44

MTBE Confirmation by EPA Method 8260A

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-10-56 (W912014-17) Soil	**Sampled: 21-Nov-99 10:45**	**Received: 01-Dec-99 13:45**							**A-01**
Methyl tert-butyl ether	ND	1.0	mg/kg	1000	9L09014	06-Dec-99	06-Dec-99	EPA 8260A	
Surrogate: Dibromofluoromethane		*84.0 %*	*50-150*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*68.0 %*	*50-150*		"	"	"	"	

Julianne Fegley, Project Manager

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	14-Dec-99 12:44

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9L02002: Prepared 02-Dec-99 Using EPA 5030B [MeOH]										
Blank (9L02002-BLK1)										
Purgeable Hydrocarbons	ND	1.0	mg/kg							
Benzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Methyl tert-butyl ether	ND	0.050	"							
Surrogate: a,a,a-Trifluorotoluene	*0.780*		"	*0.600*		*130*	*40-140*			
LCS (9L02002-BS1)										
Benzene	0.884	0.0050	mg/kg	0.800		110	50-150			
Toluene	0.882	0.0050	"	0.800		110	50-150			
Ethylbenzene	0.880	0.0050	"	0.800		110	50-150			
Xylenes (total)	2.65	0.0050	"	2.40		110	50-150			
Surrogate: a,a,a-Trifluorotoluene	*0.616*		"	*0.600*		*103*	*40-140*			
Matrix Spike (9L02002-MS1)					**Source: W911669-01**					
Benzene	0.712	0.0050	mg/kg	0.800	ND	89.0	50-150			
Toluene	0.716	0.0050	"	0.800	ND	89.5	50-150			
Ethylbenzene	0.726	0.0050	"	0.800	ND	90.8	50-150			
Xylenes (total)	2.22	0.0050	"	2.40	ND	92.5	50-150			
Surrogate: a,a,a-Trifluorotoluene	*0.522*		"	*0.600*		*87.0*	*40-140*			
Matrix Spike Dup (9L02002-MSD1)					**Source: W911669-01**					
Benzene	0.742	0.0050	mg/kg	0.800	ND	92.7	50-150	4.13	20	
Toluene	0.754	0.0050	"	0.800	ND	94.2	50-150	5.17	20	
Ethylbenzene	0.780	0.0050	"	0.800	ND	97.5	50-150	7.17	20	
Xylenes (total)	2.38	0.0050	"	2.40	ND	99.2	50-150	6.96	20	
Surrogate: a,a,a-Trifluorotoluene	*0.548*		"	*0.600*		*91.3*	*40-140*			

Julianne Fegley, Project Manager

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	14-Dec-99 12:44

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9L03002: Prepared 03-Dec-99 Using EPA 5030B [MeOH]										
Blank (9L03002-BLK1)										
Purgeable Hydrocarbons	ND	1.0	mg/kg							
Benzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Methyl tert-butyl ether	ND	0.050	"							
Surrogate: a,a,a-Trifluorotoluene	*0.742*		"	*0.600*		*124*	*40-140*			
LCS (9L03002-BS1)										
Benzene	0.836	0.0050	mg/kg	0.800		105	50-150			
Toluene	0.840	0.0050	"	0.800		105	50-150			
Ethylbenzene	0.852	0.0050	"	0.800		106	50-150			
Xylenes (total)	2.57	0.0050	"	2.40		107	50-150			
Surrogate: a,a,a-Trifluorotoluene	*0.706*		"	*0.600*		*118*	*40-140*			
Matrix Spike (9L03002-MS1)					**Source: W912014-02**					
Benzene	0.818	0.0050	mg/kg	0.800	ND	102	50-150			
Toluene	0.810	0.0050	"	0.800	ND	101	50-150			
Ethylbenzene	0.824	0.0050	"	0.800	ND	103	50-150			
Xylenes (total)	2.49	0.0050	"	2.40	ND	104	50-150			
Surrogate: a,a,a-Trifluorotoluene	*0.578*		"	*0.600*		*96.3*	*40-140*			
Matrix Spike Dup (9L03002-MSD1)					**Source: W912014-02**					
Benzene	0.818	0.0050	mg/kg	0.800	ND	102	50-150	0	20	
Toluene	0.826	0.0050	"	0.800	ND	103	50-150	1.96	20	
Ethylbenzene	0.842	0.0050	"	0.800	ND	105	50-150	2.16	20	
Xylenes (total)	2.55	0.0050	"	2.40	ND	106	50-150	2.38	20	
Surrogate: a,a,a-Trifluorotoluene	*0.588*		"	*0.600*		*98.0*	*40-140*			

Julianne Eggley, Project Manager

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	14-Dec-99 12:44

MTBE Confirmation by EPA Method 8260A - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9L09014: Prepared 06-Dec-99 Using EPA 5030B [P/T]										
Blank (9L09014-BLK1)										
Methyl tert-butyl ether	ND	0.0010	mg/kg							
Surrogate: Dibromofluoromethane	*0.0271*		"	*0.0250*		*108*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*0.0241*		"	*0.0250*		*96.4*	*50-150*			
LCS (9L09014-BS1)										
Methyl tert-butyl ether	0.0289	0.0010	mg/kg	0.0250		116	70-130			
Surrogate: Dibromofluoromethane	*0.0265*		"	*0.0250*		*106*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*0.0231*		"	*0.0250*		*92.4*	*50-150*			
Matrix Spike (9L09014-MS1)					**Source: W911670-03**					
Methyl tert-butyl ether	0.0264	0.0010	mg/kg	0.0250	ND	106	60-150			
Surrogate: Dibromofluoromethane	*0.0238*		"	*0.0250*		*95.2*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*0.0197*		"	*0.0250*		*78.8*	*50-150*			
Matrix Spike Dup (9L09014-MSD1)					**Source: W911670-03**					
Methyl tert-butyl ether	0.0216	0.0010	mg/kg	0.0250	ND	86.4	60-150	20.0	25	
Surrogate: Dibromofluoromethane	*0.0226*		"	*0.0250*		*90.4*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*0.0184*		"	*0.0250*		*73.6*	*50-150*			

Julianne Pegley, Project Manager

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	14-Dec-99 12:44

Notes and Definitions

A-01	Sample was analyzed one day out of hold time due to instrument error.
P-01	Chromatogram Pattern: Gasoline C6-C12
P-04	Chromatogram Pattern: Gasoline C6-C12 + Unidentified Hydrocarbons C6-C12
P-07	Chromatogram Pattern: Gasoline C6-C12 + Unidentified Hydrocarbons >C10
S-01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interferences.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Julianne Fegley, Project Manager

No 000516

TOSCO

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☐ 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342
☐ 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Consultant Company: Gettler-Ryan 140107.04	Project Name: #7376
Address: 6747 Sierra Ct Suite J	TOSCO Engineer (required) Dave DeWitt
City: Dublin State: CA Zip Code: 94568	W912014
Telephone: 925 551-7555 FAX #: (925) 551-7888	Site #, City, State: #7376 Pleasanton, CA
Report To: Clyde Galantine Sampler: Clyde Galantine	QC Data: ☐ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time: ☒ 10 Work Days ☐ 2 Work Days ☐ 5 Work Days ☐ 1 Work Day ☐ 3 Work Days ☐ 2-8 Hours

☐ Drinking Water ☐ Waste Water ☐ Other

CODE: ☐ Misc. ☒ Detect. ☐ Eval. ☐ Remed. ☐ Demol. ☐ Closure

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH (EPA 8015 Mod. Gas)	BTEX (EPA 8020)	MTBE (EPA 8020)	TPH (EPA 8015 Mod. Diesel)	Volatile Organics (EPA 8260)	MTBE Confirmation (EPA 8260)				Comments
1. B-13-6	11/22/99 8:45	soil	1	tube	01A	X	X	X							Hold
[redacted]															
3. B-13-11	8:55														
4. B-13-12.5	9:00				02A	X	X	X							
[redacted]															
6. B-13-18.5	9:30														
7. B-13-21	9:35														
8. B-13-23.5	9:40														
9. B-13-26.5	9:45				03A	X	X	X			X				
10. [redacted]															

Relinquished By: Clyde Galantine	Date: 11/22/99	Time: 17:15	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment ______ Page ___ of ___

To be completed upon receipt of report:
1) Were the analyses requested on the Chain of Custody reported? ☐ Yes ☐ No If no, what analyses are still needed? ______
2) Was the report issued within the requested turnaround time? ☐ Yes ☐ No If no, what was the turnaround time? ______

Company: Date: ______

Pink - Client
Yellow - Sequoia
White - Sequoia

TOSCO

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☐ 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Consultant Company: Gettler-Ryan 142107.04	Project Name: 7376
Address: 6747 Sierra Ct Suite J	TOSCO Engineer (required) Dave DeWitt
City: Dublin State: CA Zip Code: 94568	W912014
Telephone: (925) 551-7555 FAX #(925) 551-7888	Site #, City, State: #7376 Pleasanton CA
Report To: Clyde Galantine Sampler: Clyde Galantine	QC Data: ☐ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time: ☒ 10 Work Days ☐ 5 Work Days ☐ 3 Work Days ☐ 2 Work Days ☐ 1 Work Day ☐ 2-8 Hours

☐ Drinking Water ☐ Waste Water ☐ Other

CODE: ☐ Misc. ☐ Detect. ☐ Eval. ☐ Remed. ☐ Demol. ☐ Closure

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH (EPA 8015 Mod Gas)	BTEX (EPA 8020)	MTBE (EPA 8020)	TPH (EPA 8015 Mod. Diesel)	Volatile Organics (EPA 8260)	MTBE Confirmation (EPA 8260)	Comments
1. B-13-32	11/22/99 9:55	Soil	1	tube								Hold
2. B-13-33	10:30											
3. B-13-35.5	10:35				04	X	X	X				
4. B-13-36.5	10:40											
5. B-13-42	10:45											
6. B-13-43	10:50				05	X	X	X				
7. B-13-46	10:55											
8. B-13-49	10:58				06	X	X	X				
9. B-13-51	11:03											
10. B-13-53	11:05											

Relinquished By: Clyde Galantine	Date: 11/22/99	Time: 17:15	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment _____ Page ___ of ___

To be completed upon receipt of report:
1) Were the analyses requested on the Chain of Custody reported? ☐ Yes ☐ No If no, what analyses are still needed? _____
2) Was the report issued within the requested turnaround time? ☐ Yes ☐ No If no, what was the turnaround time? _____

Signature: Company: Date:

Pink - Client
Yellow - Sequoia
White - Sequoia

N° 000360

TOSCO

☐ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
☐ 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673
☐ 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342
☐ 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Consultant Company: Getler-Ryan 1401704	Project Name: 7376
Address: 6747 Sierra Ct Suite J	TOSCO Engineer (required) Dave DeWitt W912014
City: Dublin State: CA Zip Code: 94568	Site #, City, State: ** 7376 Pleasanton CA
Telephone: (925) 551-7555 FAX #(925) 551-7888	QC Data: ☐ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A
Report To: Clyde Galantine Sampler: Clyde Galantine	

Turnaround Time: ☒ 10 Work Days ☐ 5 Work Days ☐ 3 Work Days ☐ 2 Work Days ☐ 1 Work Day ☐ 2-8 Hours

☐ Drinking Water ☐ Waste Water ☐ Other

CODE: ☐ Misc. ☒ Detect. ☐ Eval. ☐ Remed. ☐ Demol. ☐ Closure

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH (EPA 8015 Mod. Gas)	BTEX (EPA 8020)	MTBE (EPA 8020)	TPH (EPA 8015 Mod. Diesel)	Volatile Organics (EPA 8260)	MTBE Confirmation (EPA 8260)	Comments
1. B-13-[illegible]	[illegible]				[illegible]							Hold
2. B-13-61	11:30				1981	X	X	X				
3. B-13-63	11:35											
4. B-13-65.5	11:45											
5. B-13-67.5	11:55											
6. B-13-70.5	12:05				[illegible]							
7. [illegible]	[illegible]											
8. B-13-75.5	1:10											
9. B-13-78	1:15											
10. B-13-80.5	1:20											

Relinquished By: Clyde Galantine	Date: 11/22/99	Time: 17:15	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment _____ Page ___ of ___

To be completed upon receipt of report:
1) Were the analyses requested on the Chain of Custody reported? ☐ Yes ☐ No If no, what analyses are still needed? _____
2) Was the report issued within the requested turnaround time? ☐ Yes ☐ No If no, what was the turnaround time? _____

Date:

Pink - Client
Yellow - Sequoia
White - Sequoia

TOSCO

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☐ 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Consultant Company: Gettler-Ryan 140107.04
Address: 6747 Sierra Ct Suite J
City: Dublin State: CA Zip Code: 94568
Telephone: (925) 551-7555 FAX #: (925) 551-7888
Report To: Clyde Galantine Sampler: Clyde Galantine

Project Name: 7376
TOSCO Engineer (required): Dave DeWitt
W9/2014
Site #, City, State: 7376 Pleasanton, CA
QC Data: ☐ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time: ☒ 10 Work Days ☐ 5 Work Days ☐ 3 Work Days ☐ 2 Work Days ☐ 1 Work Day ☐ 2-8 Hours

☐ Drinking Water ☐ Waste Water ☐ Other

CODE: ☐ Misc. ☒ Detect. ☐ Eval. ☐ Remed. ☐ Demol. ☐ Closure

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH (EPA 8015 Mod. Gas)	BTEX (EPA 8020)	MTBE (EPA 8020)	TPH (EPA 8015 Mod. Diesel)	Volatile Organics (EPA 8260)	MTBE Confirmation (EPA 8260)				Comments
1. B-13-82.5	11/22/99 1:30	soil	1	tube											Hold
2. B-13-85.5	1:40				10A	X	Y	Y							
3. B-13-87.5	2:00														
4. B-13-90.5	2:20														
5. B-13-92.5	2:35														
6. B-13-95.5	2:40														
7. B-13-[illegible]	[illegible]				11A	X	Y	Y							
8. B-13-101.5	3:25														
9.															
10.															

Relinquished By	Date	Time	Received By	Date	Time
Relinquished By: Clyde Galantine	Date: 11/22/99	Time: 17:15	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment ______ Page ___ of ___

To be completed upon receipt of report:
1) Were the analyses requested on the Chain of Custody reported? ☐ Yes ☐ No If no, what analyses are still needed? ______
2) Was the report issued within the requested turnaround time? ☐ Yes ☐ No If no, what was the turnaround time? ______
Date:

Pink - Client Yellow - Sequoia White - Sequoia

No 000573

TOSCO

☐ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 (916) 921-9600 FAX (916) 921-0100
☐ 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673
☐ 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342
☐ 1551 Industrial Road, San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Consultant Company: Gettler-Ryan 140107.04	Project Name: #7376 Pleasanton
Address: 6747 Sierra Ct Suite J	TOSCO Engineer (required) Dave DeWitt
City: Dublin State: CA Zip Code: 94568	W9/7014
Telephone: (925) 551-7555 FAX #: (925) 551-7888	Site #, City, State: #7376 Pleasanton, CA
Report To: Clyde Galantine Sampler: Clyde Galantine	QC Data: ☐ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time: ☒ 10 Work Days ☐ 5 Work Days ☐ 3 Work Days ☐ 2 Work Days ☐ 1 Work Day ☐ 2-8 Hours

☐ Drinking Water ☐ Waste Water ☐ Other

CODE: ☐ Misc. ☒ Detect. ☐ Eval. ☐ Remed. ☐ Demol. ☐ Closure

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH (EPA 8015 Mod. Gas)	BTEX (EPA 8020)	MTBE (EPA 8020)	TPH (EPA 8015 Mod. Diesel)	Volatile Organics (EPA 8260)	MTBE Confirmation (EPA 8260)				Comments
1. MW-10-5.5	11/21/99 8:30	Soil	1	tube	171	X	X	X							Hold
2. MW-10-7.5	8:33														
3. MW-10-11	8:40														
4. MW-10-13	8:45				131	X	X	X							
5. MW-10-16.5	8:50														
6. MW-10-18	8:55														
7. MW-10-21	9:00				141	X	X	X							
8. MW-10-25.5	9:25														
9. MW-10-29	9:30														
10. MW-10-31	9:35														

Relinquished By: Clyde Galantine	Date: 11/22/99	Time: 6:30	Received By:	Date: Time:
Relinquished By:	Date:	Time:	Received By:	Date: Time:
Relinquished By:	Date:	Time:	Received By:	Date: Time:

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment _____ Page ___ of ___

To be completed upon receipt of report:
1) Were the analyses requested on the Chain of Custody reported? ☐ Yes ☐ No If no, what analyses are still needed? _____
2) Was the report issued within the requested turnaround time? ☐ Yes ☐ No If no, what was the turnaround time? _____

Comments: _____ Date: _____

Pink - Client
Yellow - Sequoia
White - Sequoia

TOSCO

404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673
1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342
1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Consultant Company: Getler-Ryan 1401074
Address: 6747 Sierra Ct Suite J
City: Dublin State: CA Zip Code: 94568
Telephone: (925) 551-7555 FAX #: (925) 551-7888
Report To: Clyde Galantine Sampler: Clyde Galantine

Project Name: 7376
TOSCO Engineer (required): Dave DeWitt W9102014
Site #, City, State: #7376 Pleasanton, CA
QC Data: ☐ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time: ☒ 10 Work Days ☐ 5 Work Days ☐ 3 Work Days ☐ 2 Work Days ☐ 1 Work Day ☐ 2-8 Hours

☐ Drinking Water ☐ Waste Water ☐ Other

CODE: ☐ Misc. ☐ Detect. ☐ Eval. ☐ Remed. ☐ Demol. ☐ Closure

Pink - Client
Yellow - Sequoia
White - Sequoia

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Analyses Requested: TPH (EPA 8015 Mod. Gas)	BTEX (EPA 8020)	MTBE (EPA 8020)	TPH (EPA 8015 Mod. Diesel)	Volatile Organics (EPA 8260)	MTBE Confirmation (EPA 8260)				Comments
1. MW-10-32.5	11/2/99 9:40	soil	1	tube											Hold
2. MW-10-36.5	9:45				15A	X	X	X							
3. MW-10-38	9:50														
4. MW-10-40.5	9:55				16A	X	X	X							
5. MW-10-44	10:00														
6. MW-10-47	10:05														
7. MW-10-49	10:10														
8. MW-10-51	10:35														
9. MW-10-54	10:40														
10. MW-10-56	10:45				17A	X	X	X			X				

Relinquished By:	Date: 11/2/99	Time: 6:30	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Page ___ of ___

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment _____

To be completed upon receipt of report:
1) Were the analyses requested on the Chain of Custody reported? ☐ Yes ☐ No If no, what analyses are still needed? _____
2) Was the report issued within the requested turnaround time? ☐ Yes ☐ No If no, what was the turnaround time? _____
Date: _____

TOSCO

☒ 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673
☐ 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342
☐ 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Consultant Company: Gettler-Ryan 162107.04	Project Name: #7376
Address: 6747 Sierra Ct. Suite J	TOSCO Engineer (required) Dave DeWitt
City: Dublin State: CA Zip Code: 94568	W9187014
Telephone (925) 551-7555 FAX #: (925) 551-7888	Site #, City, State: #7376 Pleasanton, CA
Report To: Clyde Galantine Sampler: Clyde Galantine	QC Data: ☐ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time: ☒ 10 Work Days ☐ 5 Work Days ☐ 3 Work Days ☐ 2 Work Days ☐ 1 Work Day ☐ 24 Hours

☐ Drinking Water ☐ Waste Water ☐ Other

CODE: ☐ Misc. ☐ Detect. ☐ Eval. ☐ Remed. ☐ Demol. ☐ Closure

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH (EPA 8015 Mod. Gas)	BTEX (EPA 8020)	MTBE (EPA 8020)	TPH (EPA 8015 Mod. Diesel)	Volatile Organics (EPA 8260)	MTBE Confirmation (EPA 8260)	Comments
1. MW-10-71	11/21/94 1:30	Soil	1	tube	18A	X	X	X				Hold
2. MW-10-72.5	1:35											
3. MW-10-76	1:40											
4. MW-10-77.5	1:45				19A	X	X	X				
5. MW-10-82	1:50											
6. MW-10-84	1:55											
7. MW-10-85.5	2:00											
8. MW-10-81.5	2:05											
9. MW-10-90.5	2:10				20A	X	X	X				
10. MW-10-92.5	2:55											

Relinquished By: [signature]	Date: 11/22/94	Time: 6:30	Received By:	Date: Time:
Relinquished By:	Date:	Time:	Received By:	Date: Time:
Relinquished By:	Date:	Time:	Received By:	Date: Time:

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment _____ Page ___ of ___

To be completed upon receipt of report:
1) Were the analyses requested on the Chain of Custody reported? ☐ Yes ☐ No If no, what analyses are still needed? _____
2) Was the report issued within the requested turnaround time? ☐ Yes ☐ No If no, what was the turnaround time? _____

Date:

Pink - Client
Yellow - Sequoia
White - Sequoia

Sequoia
Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

10 December, 1999

Clyde Galantine
Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin, CA 94568

RE: Tosco

Enclosed are the results of analyses for samples received by the laboratory on 24-Nov-99 15:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Julianne Fegley
Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	10-Dec-99 12:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-13-128.5	W911632-01	Water	23-Nov-99 10:55	24-Nov-99 15:00
B-13-133	W911632-02	Water	23-Nov-99 11:45	24-Nov-99 15:00
B-13-106	W911632-03	Soil	23-Nov-99 08:40	24-Nov-99 15:00
B-13-123.5	W911632-04	Soil	23-Nov-99 10:25	24-Nov-99 15:00
B-13-126	W911632-05	Soil	23-Nov-99 10:35	24-Nov-99 15:00

for

Julianne Fegley, Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	10-Dec-99 12:41

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-13-128.5 (W911632-01) Water	**Sampled: 23-Nov-99 10:55**		**Received: 24-Nov-99 15:00**						**P-01**
Purgeable Hydrocarbons	**150**	50	ug/l	1	9L02001	01-Dec-99	01-Dec-99	EPA	
Benzene	**17**	0.50	"	"	"	"	"	8015M/8020	
Toluene	**13**	0.50	"	"	"	"	"	"	
Ethylbenzene	**7.6**	0.50	"	"	"	"	"	"	
Xylenes (total)	**35**	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**2.7**	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*113 %*	*70-130*		"	"	"	"	
B-13-133 (W911632-02) Water	**Sampled: 23-Nov-99 11:45**		**Received: 24-Nov-99 15:00**						**P-01**
Purgeable Hydrocarbons	**620**	50	ug/l	1	9L02001	01-Dec-99	01-Dec-99	EPA	
Benzene	**53**	0.50	"	"	"	"	"	8015M/8020	
Toluene	**43**	0.50	"	"	"	"	"	"	
Ethylbenzene	**30**	0.50	"	"	"	"	"	"	
Xylenes (total)	**140**	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**6.9**	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*107 %*	*70-130*		"	"	"	"	
B-13-106 (W911632-03) Soil	**Sampled: 23-Nov-99 08:40**		**Received: 24-Nov-99 15:00**						
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	9L01002	01-Dec-99	01-Dec-99	EPA	
Benzene	ND	0.0050	"	"	"	"	"	8015/8020	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.050	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*95.0 %*	*40-140*		"	"	"	"	

Julianne Fegley, Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	10-Dec-99 12:41

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-13-123.5 (W911632-04) Soil Sampled: 23-Nov-99 10:25 Received: 24-Nov-99 15:00									
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	9L01002	01-Dec-99	01-Dec-99	EPA 8015/8020	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.050	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*102 %*	*40-140*		"	"	"	"	
B-13-126 (W911632-05) Soil Sampled: 23-Nov-99 10:35 Received: 24-Nov-99 15:00									
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	9L01002	01-Dec-99	01-Dec-99	EPA 8015/8020	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.050	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*103 %*	*40-140*		"	"	"	"	

Julianne Fegley, Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	10-Dec-99 12:41

MTBE Confirmation by EPA Method 8260A

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-13-128.5 (W911632-01) Water Sampled: 23-Nov-99 10:55 Received: 24-Nov-99 15:00									
Methyl tert-butyl ether	**3.5**	2.0	ug/l	1	9L07012	07-Dec-99	07-Dec-99	EPA 8260A	
Surrogate: Dibromofluoromethane		*86.0 %*	*50-150*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*66.0 %*	*50-150*		"	"	"	"	
B-13-133 (W911632-02) Water Sampled: 23-Nov-99 11:45 Received: 24-Nov-99 15:00									
Methyl tert-butyl ether	**3.7**	2.0	ug/l	1	9L07012	07-Dec-99	07-Dec-99	EPA 8260A	
Surrogate: Dibromofluoromethane		*86.0 %*	*50-150*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*68.0 %*	*50-150*		"	"	"	"	

Julianne Fegley, Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	10-Dec-99 12:41

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9L01002: Prepared 01-Dec-99 Using EPA 5030B [MeOH]										
Blank (9L01002-BLK1)										
Purgeable Hydrocarbons	ND	1.0	mg/kg							
Benzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Methyl tert-butyl ether	ND	0.050	"							
Surrogate: a,a,a-Trifluorotoluene	*0.622*		"	*0.600*		*104*	*40-140*			
LCS (9L01002-BS1)										
Benzene	0.850	0.0050	mg/kg	0.800		106	50-150			
Toluene	0.852	0.0050	"	0.800		106	50-150			
Ethylbenzene	0.860	0.0050	"	0.800		108	50-150			
Xylenes (total)	2.62	0.0050	"	2.40		109	50-150			
Surrogate: a,a,a-Trifluorotoluene	*0.630*		"	*0.600*		*105*	*40-140*			
Matrix Spike (9L01002-MS1)					**Source: W911675-03**					
Benzene	0.944	0.0050	mg/kg	0.800	ND	118	50-150			
Toluene	0.944	0.0050	"	0.800	ND	118	50-150			
Ethylbenzene	0.944	0.0050	"	0.800	ND	118	50-150			
Xylenes (total)	2.85	0.0050	"	2.40	ND	119	50-150			
Surrogate: a,a,a-Trifluorotoluene	*0.638*		"	*0.600*		*106*	*40-140*			
Matrix Spike Dup (9L01002-MSD1)					**Source: W911675-03**					
Benzene	0.950	0.0050	mg/kg	0.800	ND	119	50-150	0.634	20	
Toluene	0.942	0.0050	"	0.800	ND	118	50-150	0.212	20	
Ethylbenzene	0.934	0.0050	"	0.800	ND	117	50-150	1.06	20	
Xylenes (total)	2.82	0.0050	"	2.40	ND	117	50-150	1.06	20	
Surrogate: a,a,a-Trifluorotoluene	*0.638*		"	*0.600*		*106*	*40-140*			

Julianne Fegley, Project Manager

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	10-Dec-99 12:41

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9L02001: Prepared 01-Dec-99 Using EPA 5030B [P/T]										
Blank (9L02001-BLK1)										
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*31.4*		"	*30.0*		*105*	*70-130*			
LCS (9L02001-BS1)										
Benzene	19.0	0.50	ug/l	20.0		95.0	70-130			
Toluene	19.5	0.50	"	20.0		97.5	70-130			
Ethylbenzene	18.4	0.50	"	20.0		92.0	70-130			
Xylenes (total)	62.5	0.50	"	60.0		104	70-130			
Surrogate: a,a,a-Trifluorotoluene	*30.2*		"	*30.0*		*101*	*70-130*			
Matrix Spike (9L02001-MS1)					**Source: W911614-07**					
Benzene	18.8	0.50	ug/l	20.0	ND	94.0	70-130			
Toluene	19.0	0.50	"	20.0	ND	95.0	70-130			
Ethylbenzene	19.5	0.50	"	20.0	ND	97.5	70-130			
Xylenes (total)	59.8	0.50	"	60.0	ND	99.7	70-130			
Surrogate: a,a,a-Trifluorotoluene	*29.3*		"	*30.0*		*97.7*	*70-130*			
Matrix Spike Dup (9L02001-MSD1)					**Source: W911614-07**					
Benzene	19.8	0.50	ug/l	20.0	ND	99.0	70-130	5.18	20	
Toluene	20.0	0.50	"	20.0	ND	100	70-130	5.13	20	
Ethylbenzene	20.2	0.50	"	20.0	ND	101	70-130	3.53	20	
Xylenes (total)	62.2	0.50	"	60.0	ND	104	70-130	3.93	20	
Surrogate: a,a,a-Trifluorotoluene	*29.8*		"	*30.0*		*99.3*	*70-130*			

Sequoia Analytical - Walnut Creek

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Julianne Fegley, Project Manager

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	10-Dec-99 12:41

MTBE Confirmation by EPA Method 8260A - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9L07012: Prepared 07-Dec-99 Using EPA 5030B [P/T]										
Blank (9L07012-BLK2)										
Methyl tert-butyl ether	ND	2.0	ug/l							
Surrogate: Dibromofluoromethane	*42.3*		"	*50.0*		*84.6*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*33.2*		"	*50.0*		*66.4*	*50-150*			
LCS (9L07012-BS2)										
Methyl tert-butyl ether	45.1	2.0	ug/l	50.0		90.2	70-130			
Surrogate: Dibromofluoromethane	*45.1*		"	*50.0*		*90.2*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*34.5*		"	*50.0*		*69.0*	*50-150*			
Matrix Spike (9L07012-MS1)					**Source: W912114-02**					
Methyl tert-butyl ether	47.8	2.0	ug/l	50.0	ND	95.6	60-150			
Surrogate: Dibromofluoromethane	*45.0*		"	*50.0*		*90.0*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*36.2*		"	*50.0*		*72.4*	*50-150*			
Matrix Spike Dup (9L07012-MSD1)					**Source: W912114-02**					
Methyl tert-butyl ether	47.5	2.0	ug/l	50.0	ND	95.0	60-150	0.630	25	
Surrogate: Dibromofluoromethane	*44.1*		"	*50.0*		*88.2*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*34.1*		"	*50.0*		*68.2*	*50-150*			

Julianne Fegley, Project Manager

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	10-Dec-99 12:41

Notes and Definitions

P-01	Chromatogram Pattern: Gasoline C6-C12
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Julianne Fegley, Project Manager

№ 000583

TOSCO

☐ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
☒ 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673
☐ 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342
☐ 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Consultant Company: Gettler-Ryan 140107.04	Project Name: #7376
Address: 6747 Sierra Ct Suite J	TOSCO Engineer (required) Dave DeWitt
City: Dublin State: CA Zip Code: 94568	jw911632
Telephone: (925) 551-7555 FAX #: (925) 551-7888	Site #, City, State: #7376 Pleasanton
Report To: C Galantine Sampler: C Galantine	QC Data: ☐ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time: ☒ 10 Work Days ☐ 5 Work Days ☐ 3 Work Days ☐ 2 Work Days ☐ 1 Work Day ☐ 2-8 Hours

☐ Drinking Water ☐ Waste Water ☐ Other

CODE: ☐ Misc. ☒ Detect. ☐ Eval. ☐ Remed. ☐ Demol. ☐ Closure

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH (EPA 8015 Mod. Gas)	BTEX (EPA 8020)	MTBE (EPA 8020)	TPH (EPA 8015 Mod. Diesel)	Volatile Organics (EPA 8260)	MTBE Confirmation (EPA 8260)				Comments
1. B-13-128.5	11/23/94 10:55	H_2O	3	Voa	01A-C	X	X	X			X				
2. B-13-133	" 11:45	1	1	1	02A-C	X	X	X			X				
3.															
4.															
5.															
6.															
7.															
8.															
9.															
10.															

Relinquished By: C Galantine	Date: 11/23/94	Time: 15:30	Received By: W H	Date: 11/24/94	Time: 13:12
Relinquished By: W H	Date: 11/24/94	Time: 15:00	Received By:	Date: 11/24	Time: 15:00
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment _____ Page ___ of ___

To be completed upon receipt of report:
1) Were the analyses requested on the Chain of Custody reported? ☐ Yes ☐ No If no, what analyses are still needed? _____
2) Was the report issued within the requested turnaround time? ☐ Yes ☐ No If no, what was the turnaround time? _____
Approved by: _____ Signature: _____ Company: _____ Date: _____

Pink - Client
Yellow - Sequoia
White - Sequoia

N: 000582

TOSCO

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☐ 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Consultant Company: Getler-Ryan 140107.04	Project Name: #7376
Address: 6747 Sierra Ct, Suite J	TOSCO Engineer (required) Dave DeWitt W91/637
City: Dublin State: CA Zip Code: 94568	
Telephone: (925) 551-7555 FAX #: (925) 551-7888	Site #, City, State: #7376 Pleasanton, CA
Report To: C Galantine Sampler: C Galantine	QC Data: ☐ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time: ☒ 10 Work Days ☐ 5 Work Days ☐ 3 Work Days ☐ 2 Work Days ☐ 1 Work Day ☐ 2-8 Hours

☐ Drinking Water ☐ Waste Water ☐ Other

CODE: ☐ Misc. ☒ Detect. ☐ Eval. ☐ Remed. ☐ Demol. ☐ Closure

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH (EPA 8015 Mod. Gas)	BTEX (EPA 8020)	MTBE (EPA 8020)	TPH (EPA 8015 Mod. Diesel)	Volatile Organics (EPA 8260)	MTBE Confirmation (EPA 8260)	Comments
1. B-1B-103	11/23/99 8:35	Soil	1	tube								Hold
2. B-13-106	8:40				03A	X	X	X				
3. B-13-107.5	8:45											
4. B-13-110.5	9:10											
5. B-13-112	9:15											
6. B-13-115.5	10:05											
7. B-13-118	10:10											
8. B-13-123.5	10:25				04A	X	X	X				
9. B-13-126	10:35				05A	X	X	X				
10.												

Relinquished By: [signature]	Date: 11/23/99	Time: 15:30	Received By: [signature]	Date: 11/24	Time: 13:10
Relinquished By: [signature]	Date: 11/24/99	Time: 15:00	Received By: [signature]	Date: 11/24	Time: 15:00
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment _____ Page ___ of ___

To be completed upon receipt of report:

1) Were the analyses requested on the Chain of Custody reported? ☐ Yes ☐ No If no, what analyses are still needed? _____

2) Was the report issued within the requested turnaround time? ☐ Yes ☐ No If no, what was the turnaround time? _____

Approved by: _____ Signature: _____ Company: _____ Date: _____

Pink - Client

Yellow - Sequoia

White - Sequoia

Sequoia Analytical

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26 October, 1999

Clyde Galantine
Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin, CA 94568

RE: Tosco

Enclosed are the results of analyses for samples received by the laboratory on 07-Oct-99 18:05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Julianne Fegley
Project Manager

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	26-Oct-99 11:57

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TS-1 COMP	W910167-01	Soil	07-Oct-99 14:10	07-Oct-99 18:05

Sequoia Analytical - Walnut Creek

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Julianne Fegley, Project Manager

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	26-Oct-99 11:57

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TS-1 COMP (W910167-01) Soil Sampled: 07-Oct-99 14:10 Received: 07-Oct-99 18:05									
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	9J13022	13-Oct-99	13-Oct-99	DHS LUFT	
Benzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.050	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*91.7 %*	*40-140*		"	"	"	"	

Julianne Fegley, Project Manager

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	26-Oct-99 11:57

Total Metals by EPA 6000/7000 Series Methods

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TS-1 COMP (W910167-01) Soil	**Sampled: 07-Oct-99 14:10**		**Received: 07-Oct-99 18:05**						
Lead	**34**	1.0	mg/kg	1	9J18021	18-Oct-99	19-Oct-99	EPA 6010A	

Julianne Fegley, Project Manager

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	26-Oct-99 11:57

Physical Parameters by APHA/ASTM/EPA Methods

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TS-1 COMP (W910167-01) Soil	**Sampled: 07-Oct-99 14:10**		**Received: 07-Oct-99 18:05**						
Corrosivity	**7.93**	0	pH units	1	9J13001	12-Oct-99	12-Oct-99	EPA 9045B	
Ignitability by Flashpoint	ND	10	°C	"	9J11002	11-Oct-99	11-Oct-99	EPA 1010	F-01

Julianne Fegley, Project Manager

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	26-Oct-99 11:57

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9J13022: Prepared 13-Oct-99 Using EPA 5030B [MeOH]										
Blank (9J13022-BLK1)										
Purgeable Hydrocarbons	ND	1.0	mg/kg							
Benzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Methyl tert-butyl ether	ND	0.050	"							
Surrogate: a,a,a-Trifluorotoluene	*0.576*		"	*0.600*		*96.0*	*40-140*			
LCS (9J13022-BS1)										
Benzene	0.892	0.0050	mg/kg	0.800		112	50-150			
Toluene	0.758	0.0050	"	0.800		94.8	50-150			
Ethylbenzene	0.790	0.0050	"	0.800		98.8	50-150			
Xylenes (total)	2.64	0.0050	"	2.40		110	50-150			
Surrogate: a,a,a-Trifluorotoluene	*0.534*		"	*0.600*		*89.0*	*40-140*			
Matrix Spike (9J13022-MS1)					**Source: W910240-04**					
Benzene	0.846	0.0050	mg/kg	0.800	ND	106	50-150			
Toluene	0.728	0.0050	"	0.800	ND	91.0	50-150			
Ethylbenzene	0.762	0.0050	"	0.800	ND	95.3	50-150			
Xylenes (total)	2.58	0.0050	"	2.40	ND	107	50-150			
Surrogate: a,a,a-Trifluorotoluene	*0.476*		"	*0.600*		*79.3*	*40-140*			
Matrix Spike Dup (9J13022-MSD1)					**Source: W910240-04**					
Benzene	0.840	0.0050	mg/kg	0.800	ND	105	50-150	0.712	20	
Toluene	0.718	0.0050	"	0.800	ND	89.7	50-150	1.38	20	
Ethylbenzene	0.748	0.0050	"	0.800	ND	93.5	50-150	1.85	20	
Xylenes (total)	2.51	0.0050	"	2.40	ND	105	50-150	2.75	20	
Surrogate: a,a,a-Trifluorotoluene	*0.474*		"	*0.600*		*79.0*	*40-140*			

Sequoia Analytical - Walnut Creek

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Julianne Fegley, Project Manager

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	26-Oct-99 11:57

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9J18021: Prepared 18-Oct-99 Using EPA 3050B										
Blank (9J18021-BLK1)										
Lead	ND	1.0	mg/kg							
LCS (9J18021-BS1)										
Lead	49.0	1.0	mg/kg	50.0		98.0	80-120			
LCS Dup (9J18021-BSD1)										
Lead	49.5	1.0	mg/kg	50.0		99.0	80-120	1.02	20	
Matrix Spike (9J18021-MS1)					**Source: W910258-01**					
Lead	85.0	1.0	mg/kg	50.0	35	100	80-120			
Matrix Spike Dup (9J18021-MSD1)					**Source: W910258-01**					
Lead	75.0	1.0	mg/kg	50.0	35	80.0	80-120	12.5	20	Q-01

Julianne Fegley, Project Manager

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	26-Oct-99 11:57

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9J11002: Prepared 11-Oct-99 Using General Preparation										
Duplicate (9J11002-DUP1)					**Source: W910073-01**					
Ignitability by Flashpoint	ND	10	°C		ND				30	F-01
Batch 9J13001: Prepared 12-Oct-99 Using General Preparation										
Duplicate (9J13001-DUP2)					**Source: W910164-06**					
Corrosivity	8.44	0	pH units		8.40			0.475	30	

Julianne Fegley, Project Manager

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	26-Oct-99 11:57

Notes and Definitions

F-01	No flash detected up to 100 °C
Q-01	The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Julianne Fegley, Project Manager

PET

SUBCONTRACT ORDER

Sequoia Analytical - Walnut Creek

W910167

SENDING LABORATORY:

Sequoia Analytical - Walnut Creek
404 N. Wiget Lane
Walnut Creek, CA 94598
Phone: (925) 988-9600
Fax: (925) 988-9673
Project Manager: Julianne Fegley

RECEIVING LABORATORY:

Sequoia Analytical - Petaluma
1455 N. McDowell Blvd Ste D
Petaluma, CA 94954
Phone :707-792-1865
Fax: 707-792-0342

P910202

Subbed Reactivity to PET [redacted]

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: W910167-01	Soil	Sampled: 07-Oct-99 14:10	[redacted]	Composite 4 : 1
Reactivity-P/A	22-Oct-99 20:00	04-Nov-99 14:10	P910202-01	

Released By	Date	Received By	Date
[signature]	10/8/99	[signature]	10-8 1215
[signature]	10-8	[signature]	10/8/99 16:15

Sequoia Analytical

1455 McDowell Blvd. North, Ste. D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342

Sequoia WC (Subbed In)	Project:	Julianne Fegley	Sampled: 10/7/99
404 N. Wiget Lane	Project Number:	W910167	Received: 10/7/99
Walnut Creek, CA 94598	Project Manager:	Julianne Fegley	Reported: 10/13/99

ANALYTICAL REPORT FOR P910202

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
W910167-01/TS-1 Comp.	P910202-01	Soil	10/7/99

Sequoia Analytical

1455 McDowell Blvd. North, Ste. D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342

Sequoia WC (Subbed In)	Project:	Julianne Fegley	Sampled:	10/7/99
404 N. Wiget Lane	Project Number:	W910167	Received:	10/7/99
Walnut Creek, CA 94598	Project Manager:	Julianne Fegley	Reported:	10/13/99

Physical Parameters by APHA/ASTM/EPA Methods
Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
W910167-01/TS-1 Comp.			**P910202-01**				**Soil**	
Reactivity in Water	9100190	10/9/99	10/9/99	EPA Chapter 7		ND	N/A	
Reactive Sulfide	"	"	"	SW846 Ch 7.3	50.0	ND	mg/kg	
Reactive Cyanide	"	"	"	SW846 Ch. 7.3	10.0	ND	"	

Sequoia Analytical

1455 McDowell Blvd. North, Ste. D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342

Sequoia WC (Subbed In)	Project:	Julianne Fegley	Sampled: 10/7/99
404 N. Wiget Lane	Project Number:	W910167	Received: 10/7/99
Walnut Creek, CA 94598	Project Manager:	Julianne Fegley	Reported: 10/13/99

Physical Parameters by APHA/ASTM/EPA Methods/Quality Control
Sequoia Analytical - Petaluma

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9100190	**Date Prepared: 10/9/99**					**Extraction Method: General Preparation**				
Blank	**9100190-BLK1**									
Reactive Sulfide	10/9/99			**ND**	mg/kg	**50.0**				
Reactive Cyanide	"			**ND**	"	**10.0**				
LCS	**9100190-BS1**									
Reactive Sulfide	10/9/99	1730		1430	mg/kg	10.0-120	82.7			
LCS	**9100190-BS2**									
Reactive Cyanide	10/9/99	500		70.9	mg/kg	5.00-120	14.2			

Sequoia Analytical

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Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342

Sequoia WC (Subbed In)	Project:	Julianne Fegley	Sampled:	10/7/99
404 N. Wiget Lane	Project Number:	W910167	Received:	10/7/99
Walnut Creek, CA 94598	Project Manager:	Julianne Fegley	Reported:	10/13/99

Notes and Definitions

#	Note
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

SUBCONTRACT ORDER

Sequoia Analytical - Walnut Creek

W910167

MH

SENDING LABORATORY:

Sequoia Analytical - Walnut Creek
404 N. Wiget Lane
Walnut Creek, CA 94598
Phone: (925) 988-9600
Fax: (925) 988-9673
Project Manager: Julianne Fegley

RECEIVING LABORATORY:

Sequoia Analytical - Morgan Hill
885 Jarvis Drive
Morgan Hill, CA 95037
Phone :408-776-9600
Fax: 408-782-6308

Subbed [redacted] PCB to MH.

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: W910167-01	**Soil**	**Sampled: 07-Oct-99 14:10**	01	**Composite 4 : 1**
8080A PCB Only H	22-Oct-99 20:00	21-Oct-99 14:10		

M910376

Released By	Date	Received By	Date
(mc)	10/8/99		10-8 1215
mc	10-8	MH	10/8/99 17:13

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308

Sequoia Analytical-Walnut Creek	Project:	Gettler-Ryan, Inc.	Sampled: 10/7/99
404 North Wiget Lane	Project Number:	W910167 (Tosco-7376)	Received: 10/7/99
Walnut Creek, CA 94598	Project Manager:	Julianne Fegley	Reported: 10/25/99

ANALYTICAL REPORT FOR M910376

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
W910167-01 (TS-1 Comp)	M910376-01	Soil	10/7/99

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308

Sequoia Analytical-Walnut Creek	Project:	Gettler-Ryan, Inc.	Sampled: 10/7/99
404 North Wiget Lane	Project Number:	W910167 (Tosco-7376)	Received: 10/7/99
Walnut Creek, CA 94598	Project Manager:	Julianne Fegley	Reported: 10/25/99

Polychlorinated Biphenyls by EPA Method 8080A
Sequoia Analytical - Morgan Hill

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
W910167-01 (TS-1 Comp)			**M910376-01**				**Soil**	
PCB-1016	9100647	10/20/99	10/21/99		20.0	ND	ug/kg	
PCB-1221	"	"	"		80.0	ND	"	
PCB-1232	"	"	"		20.0	ND	"	
PCB-1242	"	"	"		20.0	ND	"	
PCB-1248	"	"	"		20.0	ND	"	
PCB-1254	"	"	"		20.0	ND	"	
PCB-1260	"	"	"		20.0	ND	"	
Surrogate: Tetrachloro-m-xylene	"	"	"	*30.0-150*		*67.7*	%	
Surrogate: Dibutylchlorendate	"	"	"	*30.0-150*		*123*	"	
Surrogate: Decachlorobiphenyl	"	"	*10/25/99*	*30.0-150*		*ND*	"	

Sequoia Analytical

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FAX (408) 782-6308

Sequoia Analytical-Walnut Creek	Project:	Gettler-Ryan, Inc.	Sampled: 10/7/99
404 North Wiget Lane	Project Number:	W910167 (Tosco-7376)	Received: 10/7/99
Walnut Creek, CA 94598	Project Manager:	Julianne Fegley	Reported: 10/25/99

Polychlorinated Biphenyls by EPA Method 8080A/Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9100647	**Date Prepared: 10/20/99**					**Extraction Method: EPA 3550A**				
Blank	**9100647-BLK1**									
PCB-1016	10/21/99			**ND**	ug/kg	**20.0**				
PCB-1221	"			**ND**	"	**80.0**				
PCB-1232	"			**ND**	"	**20.0**				
PCB-1242	"			**ND**	"	**20.0**				
PCB-1248	"			**ND**	"	**20.0**				
PCB-1254	"			**ND**	"	**20.0**				
PCB-1260	"			**ND**	"	**20.0**				
Surrogate: Tetrachloro-m-xylene	"	*16.7*		*8.15*	"	*30.0-150*	*48.8*			
Surrogate: Dibutylchlorendate	"	*33.3*		*25.7*	"	*30.0-150*	*77.2*			
Surrogate: Decachlorobiphenyl	*10/25/99*			*ND*	"	*30.0-150*	*ND*			
LCS	**9100647-BS1**									
PCB-1260	10/21/99	83.3		62.0	ug/kg	40.0-140	74.4			
Surrogate: Tetrachloro-m-xylene	"	*16.7*		*7.67*	"	*30.0-150*	*45.9*			
Surrogate: Dibutylchlorendate	"	*33.3*		*24.8*	"	*30.0-150*	*74.5*			
Surrogate: Decachlorobiphenyl	*10/25/99*			*ND*	"	*30.0-150*	*ND*			
LCS Dup	**9100647-BSD1**									
PCB-1260	10/21/99	83.3		81.7	ug/kg	40.0-140	98.1	50.0	27.5	
Surrogate: Tetrachloro-m-xylene	"	*16.7*		*10.0*	"	*30.0-150*	*59.9*			
Surrogate: Dibutylchlorendate	"	*33.3*		*39.8*	"	*30.0-150*	*120*			
Surrogate: Decachlorobiphenyl	*10/25/99*			*ND*	"	*30.0-150*	*ND*			

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308

Sequoia Analytical-Walnut Creek	Project:	Gettler-Ryan, Inc.	Sampled:	10/7/99
404 North Wiget Lane	Project Number:	W910167 (Tosco-7376)	Received:	10/7/99
Walnut Creek, CA 94598	Project Manager:	Julianne Fegley	Reported:	10/25/99

Notes and Definitions

#	Note
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

№ 000522

TOSCO

❑ 885 Jarvis Drive • Morgan Hill, CA 95037 • (408) 776-9600 • FAX (408) 782-6308
❑ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
❑ 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673
❑ 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342
❑ 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Consultant Company: Gettler-Ryan 140107.04	Project Name: # 7376
Address: 6747 Sierra Ct Suite J	TOSCO Engineer (required) Dave DeWitt
City: Dublin State: CA Zip Code: 94568	WA10167
Telephone: 925 551-7555 FAX #: 551-7888	Site #, City, State: 7376 Pleasanton, CA
Report To: Clyde Galantine Sampler: Clyde Galantine	QC Data: ❑ Level D (Standard) ❑ Level C ❑ Level B ❑ Level A

Turnaround Time: ☒ 10 Work Days ❑ 5 Work Days ❑ 3 Work Days ❑ 2 Work Days ❑ 1 Work Day ❑ 2-8 Hours

❑ Drinking Water ❑ Waste Water ❑ Other

CODE: ❑ Misc. ☒ Detect. ❑ Eval. ❑ Remed. ❑ Demol. ❑ Closure

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH (EPA 8015 Mod. Gas)	BTEX (EPA 8020)	MTBE (EPA 8020)	TPH (EPA 8015 Mod. Diesel)	Volatile Organics (EPA 8260)	MTBE Confirmation (EPA 8260)	RCI	PCB's		Comments
1. TS-1 (comp)	10/7/99 2:10	soil	4	tube	01A-L	X	X	X				X	X		
2.															
3.															
4.															
5.															
6.															
7.															
8.															
9.															
10.															

Relinquished By: Clyde Galantine	Date: 10/7/99	Time: 16:15	Received By: W.M.H.	Date: 10/7/99	Time: 16:30
Relinquished By: W.M.H.	Date: 10/7/99	Time: 18:05	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By: (ML)	Date: 10/7/99	Time: 18:05

Were Samples Received in Good Condition? ❑ Yes ❑ No Samples on Ice? ❑ Yes ❑ No Method of Shipment_____ Page ___ of ___

To be completed upon receipt of report:
1) Were the analyses requested on the Chain of Custody reported? ❑ Yes ❑ No If no, what analyses are still needed? _____
2) Was the report issued within the requested turnaround time? ❑ Yes ❑ No If no, what was the turnaround time? _____
by: _____ Signature: _____ Company: _____ Date: _____

Pink - Client
Yellow - Sequoia
White - Sequoia

885 Jarvis Drive • Morgan Hill, CA 95037 • (408) 776-9600 • FAX (408) 782-6308
819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673
1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342
1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

No. 000522

TOSCO

Consultant Company: Gettler - Ryan 140107.04	Project Name: # 7376
Address: 6747 Sierra Ct Suite J	TOSCO Engineer (required) Dave DeWitt
City: Dublin State: CA Zip Code: 94568	WA10167
Telephone: 925 551-7555 FAX #: 551-7888	Site #, City, State: 7376 Pleasanton, CA
Report To: Clyde Galentine Sampler: Clyde Galentine	QC Data: ☐ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time: ☒ 10 Work Days ☐ 5 Work Days ☐ 3 Work Days ☐ 2 Work Days ☐ 1 Work Day ☐ 2-8 Hours

☐ Drinking Water ☐ Waste Water ☐ Other

CODE: ☐ Misc. ☒ Detect. ☐ Eval. ☐ Remed. ☐ Demol. ☐ Closure

Analyses Requested

	Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH (EPA 8015 Mod. Gas)	BTEX (EPA 8020)	MTBE (EPA 8020)	TPH (EPA 8015 Mod. Diesel)	Volatile Organics (EPA 8010)	MTBE Confirmation (EPA 8260)	RCI	PCB's		Comments
1.	TS-1 (comp)	10/7/98 2:10	soil	4	tube	01A-L	X	X	X				X	X		
2.																
3.																
4.																
5.																
6.																
7.																
8.																
9.																
10.																

Relinquished By: [signature]	Date: 10/7/98	Time: 16:15	Received By: [signature]	Date: 10/7/98	Time: 16:30
Relinquished By: [signature]	Date: 10/7/98	Time: 18:05	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By: [signature] (lab)	Date: 10/7/98	Time: 18:05

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment _____ Page ___ of ___

To be completed upon receipt of report:
1) Were the analyses requested on the Chain of Custody reported? ☐ Yes ☐ No If no, what analyses are still needed? _____
2) Was the report issued within the requested turnaround time? ☐ Yes ☐ No If no, what was the turnaround time? _____
Approved by: _____ Signature: _____ Company: _____ Date: _____

Pink - Client
Yellow - Sequoia
White - Sequoia

Sequoia
Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

13 December, 1999

Clyde Galantine
Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin, CA 94568

RE: Tosco

Enclosed are the results of analyses for samples received by the laboratory on 24-Nov-99 15:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Julianne Fegley
Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	13-Dec-99 10:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TS-2 Comp	W911631-01	Soil	23-Nov-99 00:00	24-Nov-99 15:00
TS-2 Comp	W911631-01	Soil	23-Nov-99 12:20	24-Nov-99 15:00

Julianne Fegley, Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	13-Dec-99 10:47

Semivolatile Fuel Identification by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TS-2 Comp (W911631-01) Soil	**Sampled: 23-Nov-99 12:20**		**Received: 24-Nov-99 15:00**						
Jet-A (C9-C17)	ND	1.0	mg/kg	1	9L03008	03-Dec-99	10-Dec-99	DHS LUFT	
Diesel Range Hydrocarbons	**10**	1.0	"	"	"	"	"	"	D-14
Motor Oil (C16-C36)	**21**	10	"	"	"	"	"	"	D-12
Surrogate: n-Pentacosane		*117 %*	*50-150*		"	"	"	"	

Julianne Fegley, Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	13-Dec-99 10:47

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TS-2 Comp (W911631-01) Soil	**Sampled: 23-Nov-99 12:20**		**Received: 24-Nov-99 15:00**						**P-04**
Purgeable Hydrocarbons	**25**	1.0	mg/kg	20	9L01002	01-Dec-99	02-Dec-99	EPA	
Benzene	**0.011**	0.0050	"	"	"	"	"	8015/8020	
Toluene	**0.052**	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.14**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.66**	0.0050	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.050	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*91.7 %*	*40-140*		"	"	"	"	

Julianne Fegley, Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	13-Dec-99 10:47

Diesel Hydrocarbons (C9-C24) by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TS-2 Comp (W911631-01) Soil	**Sampled: 23-Nov-99 12:20**		**Received: 24-Nov-99 15:00**						
Diesel Range Hydrocarbons	**10**	1.0	mg/kg	1	9L03008	03-Dec-99	10-Dec-99	DHS LUFT	D-14
Surrogate: n-Pentacosane		*117 %*	*50-150*		"	"	"	"	

Julianne Fegley, Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	13-Dec-99 10:47

Total Metals by EPA 6000/7000 Series Methods

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TS-2 Comp (W911631-01) Soil Sampled: 23-Nov-99 12:20 Received: 24-Nov-99 15:00									
Lead	**51**	1.0	mg/kg	1	9L08021	08-Dec-99	09-Dec-99	EPA 6010A	

Julianne Fegley, Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	13-Dec-99 10:47

Physical Parameters by APHA/ASTM/EPA Methods

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TS-2 Comp (W911631-01) Soil	**Sampled: 23-Nov-99 12:20**		**Received: 24-Nov-99 15:00**						
Corrosivity	**8.10**	0.100	pH units	1	9L02015	02-Dec-99	02-Dec-99	EPA 9045B	
Ignitability by Flashpoint	ND	10	°C	"	9K24005	24-Nov-99	24-Nov-99	EPA 1010	F-01

for Julianne Fegley, Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	13-Dec-99 10:47

Physical Parameters by APHA/ASTM/EPA Methods

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TS-2 Comp (W911631-01/TS-2) Soil	**Sampled: 23-Nov-99 00:00**		**Received: 24-Nov-99 15:00**						
Reactivity in Water	ND		N/A	1	9110721	30-Nov-99	30-Nov-99	EPA Chapter 7.3	
Reactive Cyanide	ND	10.0	mg/kg	"	"	"	"	SW846 Ch. 7.3	
Reactive Sulfide	ND	50.0	"	"	"	"	"	SW846 Ch. 7.3	

Julianne Fegley, Project Manager

Sequoia Analytical

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Walnut Creek, CA 94598
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FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	13-Dec-99 10:47

Semivolatile Fuel Identification by DHS LUFT - Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9L03008: Prepared 03-Dec-99 Using EPA 3550A										
Blank (9L03008-BLK1)										
Jet-A (C9-C17)	ND	1.0	mg/kg							
Diesel Range Hydrocarbons	ND	1.0	"							
Motor Oil (C16-C36)	ND	10	"							
Surrogate: n-Pentacosane	*0.967*		"	*1.11*		*87.1*	*50-150*			
LCS (9L03008-BS1)										
Diesel Range Hydrocarbons	18.5	1.0	mg/kg	15.0		123	60-140			
Surrogate: n-Pentacosane	*1.06*		"	*1.11*		*95.5*	*50-150*			
LCS Dup (9L03008-BSD1)										
Diesel Range Hydrocarbons	18.0	1.0	mg/kg	15.0		120	60-140	2.74	50	
Surrogate: n-Pentacosane	*0.956*		"	*1.11*		*86.1*	*50-150*			
Matrix Spike (9L03008-MS1)					**Source: W911666-07**					
Diesel Range Hydrocarbons	20.0	1.0	mg/kg	15.0	5.4	97.3	50-150			
Surrogate: n-Pentacosane	*1.58*		"	*1.11*		*142*	*50-150*			
Matrix Spike Dup (9L03008-MSD1)					**Source: W911666-07**					
Diesel Range Hydrocarbons	19.2	1.0	mg/kg	15.0	5.4	92.0	50-150	4.08	50	
Surrogate: n-Pentacosane	*1.48*		"	*1.11*		*133*	*50-150*			

Julianne Fegley, Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	13-Dec-99 10:47

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9L01002: Prepared 01-Dec-99 Using EPA 5030B [MeOH]										
Blank (9L01002-BLK1)										
Purgeable Hydrocarbons	ND	1.0	mg/kg							
Benzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Methyl tert-butyl ether	ND	0.050	"							
Surrogate: a,a,a-Trifluorotoluene	*0.622*		"	*0.600*		*104*	*40-140*			
LCS (9L01002-BS1)										
Benzene	0.850	0.0050	mg/kg	0.800		106	50-150			
Toluene	0.852	0.0050	"	0.800		106	50-150			
Ethylbenzene	0.860	0.0050	"	0.800		108	50-150			
Xylenes (total)	2.62	0.0050	"	2.40		109	50-150			
Surrogate: a,a,a-Trifluorotoluene	*0.630*		"	*0.600*		*105*	*40-140*			
Matrix Spike (9L01002-MS1)					**Source: W911675-03**					
Benzene	0.944	0.0050	mg/kg	0.800	ND	118	50-150			
Toluene	0.944	0.0050	"	0.800	ND	118	50-150			
Ethylbenzene	0.944	0.0050	"	0.800	ND	118	50-150			
Xylenes (total)	2.85	0.0050	"	2.40	ND	119	50-150			
Surrogate: a,a,a-Trifluorotoluene	*0.638*		"	*0.600*		*106*	*40-140*			
Matrix Spike Dup (9L01002-MSD1)					**Source: W911675-03**					
Benzene	0.950	0.0050	mg/kg	0.800	ND	119	50-150	0.634	20	
Toluene	0.942	0.0050	"	0.800	ND	118	50-150	0.212	20	
Ethylbenzene	0.934	0.0050	"	0.800	ND	117	50-150	1.06	20	
Xylenes (total)	2.82	0.0050	"	2.40	ND	117	50-150	1.06	20	
Surrogate: a,a,a-Trifluorotoluene	*0.638*		"	*0.600*		*106*	*40-140*			

Julianne Fegley, Project Manager

Sequoia Analytical

404 N. Wiget Lane
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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	13-Dec-99 10:47

Diesel Hydrocarbons (C9-C24) by DHS LUFT - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9L03008: Prepared 03-Dec-99 Using EPA 3550A										
Blank (9L03008-BLK1)										
Diesel Range Hydrocarbons	ND	1.0	mg/kg							
Surrogate: n-Pentacosane	*0.967*		"	*1.11*		*87.1*	*50-150*			
LCS (9L03008-BS1)										
Diesel Range Hydrocarbons	18.5	1.0	mg/kg	15.0		123	60-140			
Surrogate: n-Pentacosane	*1.06*		"	*1.11*		*95.5*	*50-150*			
LCS Dup (9L03008-BSD1)										
Diesel Range Hydrocarbons	18.0	1.0	mg/kg	15.0		120	60-140	2.74	40	
Surrogate: n-Pentacosane	*0.956*		"	*1.11*		*86.1*	*50-150*			
Matrix Spike (9L03008-MS1)					**Source: W911666-07**					
Diesel Range Hydrocarbons	20.0	1.0	mg/kg	15.0	5.4	97.3	50-150			
Surrogate: n-Pentacosane	*1.58*		"	*1.11*		*142*	*50-150*			
Matrix Spike Dup (9L03008-MSD1)					**Source: W911666-07**					
Diesel Range Hydrocarbons	19.2	1.0	mg/kg	15.0	5.4	92.0	50-150	4.08	50	
Surrogate: n-Pentacosane	*1.48*		"	*1.11*		*133*	*50-150*			

Juliane Fegley, Project Manager

Sequoia Analytical

404 N. Wiget Lane
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FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	13-Dec-99 10:47

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9L08021: Prepared 08-Dec-99 Using EPA 3050B										
Blank (9L08021-BLK1)										
Lead	ND	1.0	mg/kg							
LCS (9L08021-BS1)										
Lead	49.6	1.0	mg/kg	50.0		99.2	80-120			
LCS Dup (9L08021-BSD1)										
Lead	49.0	1.0	mg/kg	50.0		98.0	80-120	1.22	20	

Julianne Fegley, Project Manager

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	13-Dec-99 10:47

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9K24005: Prepared 24-Nov-99 Using General Prep										
Duplicate (9K24005-DUP1)					**Source: W911399-02**					
Ignitability by Flashpoint	ND	100	°C		ND				30	
Batch 9L02015: Prepared 02-Dec-99 Using General Preparation										
Duplicate (9L02015-DUP1)					**Source: W911631-01**					
Corrosivity	8.16	0.100	pH units		8.10			0.738	30	

Julianne Fegley, Project Manager

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	13-Dec-99 10:47

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9110721: Prepared 30-Nov-99 Using General Preparation										
Blank (9110721-BLK1)										
Reactive Cyanide	ND	10.0	mg/kg							
Reactive Sulfide	ND	50.0	"							
LCS (9110721-BS1)										
Reactive Sulfide	620	50.0	mg/kg	1350		45.9	10.0-120			
LCS (9110721-BS2)										
Reactive Cyanide	94.9	10.0	mg/kg	500		19.0	5.00-120			

Julianne Fegley, Project Manager

Sequoia Analytical

404 N. Wiget Lane
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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	13-Dec-99 10:47

Notes and Definitions

D-12	Chromatogram Pattern: Unidentified Hydrocarbons > C16
D-14	Chromatogram Pattern: Unidentified Hydrocarbons C9-C24
F-01	No flash detected up to 100 °C
P-04	Chromatogram Pattern: Gasoline C6-C12 + Unidentified Hydrocarbons C6-C12
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Julianne Fegley, Project Manager

NO 000584

TOSCO

☐ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
☒ 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673
☐ 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342
☐ 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Consultant Company: Gettler-Ryan 14010704	Project Name: 7376
Address: 6747 Sierra Ct Suite J	TOSCO Engineer (required) Dave DeWitt
City: Dublin State: CA Zip Code:	WA91631
Telephone (925) 551-7555 FAX #: (925) 551-7888	Site #, City, State: 7376 Pleasanton, CA
Report To: C Galantine Sampler: C Galantine	QC Data: ☐ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time: ☒ 10 Work Days ☐ 5 Work Days ☐ 3 Work Days ☐ 2 Work Days ☐ 1 Work Day ☐ 2-8 Hours

☐ Drinking Water ☐ Waste Water ☐ Other

CODE: ☐ Misc. ☒ Detect. ☐ Eval. ☐ Remed. ☐ Demol. ☐ Closure

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH (EPA 8015 Mod. Gas)	BTEX (EPA 8020)	MTBE (EPA 8020)	TPH (EPA 8015 Mod. Diesel)	Volatile Organics (EPA 8260)	MTBE Confirmation (EPA 8260)	TPH oil (with silica gel cleanup)	Total Pb	RCI	Comments
1. TS-2 Comp	11/23/99 12:20	soil	4	1	01N-D	X	X	X	X			X	X	X	
2.															
3.															
4.															
5.															
6.															
7.															
8.															
9.															
10.															

Relinquished By: [signature]	Date: 11/23/99	Time: 15:30	Received By: [signature]	Date: 11/24/99	Time: 13:10
Relinquished By: [signature]	Date: 11/24/99	Time: 15:00	Received By: [signature]	Date: 11/24	Time: 15:00
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment_____ Page ___ of ___

To be completed upon receipt of report:
1) Were the analyses requested on the Chain of Custody reported? ☐ Yes ☐ No If no, what analyses are still needed? _____
2) Was the report issued within the requested turnaround time? ☐ Yes ☐ No If no, what was the turnaround time? _____

Approved by: _____ Signature: _____ Company: _____ Date: _____

Pink - Client
Yellow - Sequoia
White - Sequoia

Sequoia
Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

13 December, 1999

Clyde Galantine
Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin, CA 94568

RE: Tosco

Enclosed are the results of analyses for samples received by the laboratory on 10-Dec-99 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alan B. Kemp
Laboratory Director

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	13-Dec-99 12:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TS-2 Comp	W912233-01	Soil	23-Nov-99 12:20	10-Dec-99 16:00

Alan B. Kemp, Laboratory Director

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	13-Dec-99 12:12

STLC CAM Metals by EPA 6000/7000 Series Methods

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TS-2 Comp (W912233-01) Soil	**Sampled: 23-Nov-99 12:20**		**Received: 10-Dec-99 16:00**						
Lead	ND	0.20	mg/l	10	9L13005	10-Dec-99	13-Dec-99	EPA 6010A	

Alan B. Kemp, Laboratory Director

Sequoia Analytical

404 N. Wiget Lane
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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	13-Dec-99 12:12

STLC CAM Metals by EPA 6000/7000 Series Methods - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9L13005: Prepared 10-Dec-99 Using Title 22-STLC										
Blank (9L13005-BLK1)										
Lead	ND	0.20	mg/l							
LCS (9L13005-BS1)										
Lead	10.1	0.20	mg/l	10.0		101	80-120			
LCS Dup (9L13005-BSD1)										
Lead	8.86	0.20	mg/l	10.0		88.6	80-120	13.1	20	
Post Spike (9L13005-PS1)					**Source: W912233-01**					
Lead	9.59	0.20	mg/l	10.0	ND	95.9	80-120			
Post Spike (9L13005-PS2)					**Source: W912233-01**					
Lead	9.63	0.20	mg/l	10.0	ND	96.3	80-120			

Alan B. Kemp, Laboratory Director

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Clyde Galantine	13-Dec-99 12:12

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Alan B. Kemp, Laboratory Director

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342
1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

REQUEST TO RELOG SAMPLES

(Please submit to sample control with a copy of the COC)

CLIENT: Gettler Ryan MATRIX: Soil

PREVIOUSLY LOGGED SAMPLES

☒ TAT Change status to: ~~2~~ 24 Hr

Change status as of Day: 12/10 Time: 1600

W917733

☐ CHANGE ANALYSES-

Add Analyses ☒ Cancel Analyses ☐

Sequoia Project ID: W911631

Sample Number	Analyses
NA W911631-01	NA STLC Pb
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA

SAMPLES ON HOLD

Sample Description	Analyses
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA

Client Authorization (Person/Date/Time): _____

Project Manager: CLW

TOSCO

- ☒ 2000 Crow Canyon Place, Suite 400 • San Ramon, CA 94583 • (925) 988-9600 FAX (925) 988-9673
- ☐ 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342
- ☐ 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Consultant Company: Gettler-Ryan 140107.04	Project Name: 7376
Address: 6747 Sierra Ct Suite J	TOSCO Engineer (required) Dave DeWitt
City: Dublin State: CA Zip Code:	W91163
Telephone (925) 551-7555 FAX #: (925) 551-7888	Site #, City, State: 7376 Pleasanton, CA
Report To: C Galantine Sampler: C Galantine	QC Data: ☐ Level D (Standard) ☐ Level C ☐ Level B ☐ Level A

Turnaround Time: ☒ 10 Work Days ☐ 5 Work Days ☐ 3 Work Days ☐ 2 Work Days ☐ 1Work Day ☐ 2-8 Hours

☐ Drinking Water ☐ Waste Water ☐ Other

CODE: ☐ Misc. ☒ Detect. ☐ Eval. ☐ Remed. ☐ Demol. ☐ Closure

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH (EPA 8015 Mod. Gas)	BTEX (EPA 8020)	MTBE (EPA 8020)	TPH (EPA 8015 Mod. Diesel)	Volatile Organics (EPA 8260)	MTBE Confirmation (EPA 8260)	TPH oil Fuel	Total Pb	RCI	Comments
1. TS-2 Comp	11/23/99 12:20	Soil	4	1	01A-D	X	X	X	X			X	X	X	
2.															
3.															
4.															
5.															
6.															
7.															
8.															
9.															
10.															

Relinquished By	Date	Time	Received By	Date	Time
Relinquished By: [signature]	Date: 11/23/99	Time: 15:30	Received By: [signature]	Date: 11/24/99	Time: 13:10
Relinquished By: [signature]	Date: 11/24/99	Time: 15:00	Received By: [signature]	Date: 11/24	Time: 15:00
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Were Samples Received in Good Condition? ☐ Yes ☐ No Samples on Ice? ☐ Yes ☐ No Method of Shipment______ Page __ of __

To be completed upon receipt of report:

1) Were the analyses requested on the Chain of Custody reported? ☐ Yes ☐ No If no, what analyses are still needed? ______

2) Was the report issued within the requested turnaround time? ☐ Yes ☐ No If no, what was the turnaround time? ______

Approved by:______ Signature: ______ Company:______ Date:

Pink - Client Yellow - Sequoia White - Sequoia

Sequoia
Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

23 December, 1999

Deanna L. Harding
Gettler Ryan, Inc. - Dublin
6747 Sierra Court Suite J
Dublin, CA 94568

RE: Tosco

Enclosed are the results of analyses for samples received by the laboratory on 07-Dec-99 14:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alan B. Kemp
Laboratory Director

Sequoia Analytical

404 N. Wiget Lane
Walnut Creek, CA 94598
(925) 988-9600
FAX (925) 988-9673

Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	23-Dec-99 10:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-LB	W912147-01	Water	06-Dec-99 00:00	07-Dec-99 14:35
MW-1	W912147-02	Water	06-Dec-99 11:40	07-Dec-99 14:35
MW-2B	W912147-03	Water	06-Dec-99 14:19	07-Dec-99 14:35
MW-3	W912147-04	Water	06-Dec-99 14:58	07-Dec-99 14:35
MW-4	W912147-05	Water	06-Dec-99 11:05	07-Dec-99 14:35
MW-7	W912147-06	Water	06-Dec-99 13:41	07-Dec-99 14:35
MW-8	W912147-07	Water	06-Dec-99 13:02	07-Dec-99 14:35
MW-9	W912147-08	Water	06-Dec-99 12:25	07-Dec-99 14:35

Alan B. Kemp, Laboratory Director

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	23-Dec-99 10:52

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-LB (W912147-01) Water Sampled: 06-Dec-99 00:00 Received: 07-Dec-99 14:35									
Purgeable Hydrocarbons	ND	50	ug/l	1	9L09001	09-Dec-99	09-Dec-99	EPA 8015M/8020	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*100 %*	*70-130*		"	"	"	"	
MW-1 (W912147-02) Water Sampled: 06-Dec-99 11:40 Received: 07-Dec-99 14:35									
Purgeable Hydrocarbons	ND	50	ug/l	1	9L09001	09-Dec-99	09-Dec-99	EPA 8015M/8020	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	120	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*86.7 %*	*70-130*		"	"	"	"	
MW-2B (W912147-03) Water Sampled: 06-Dec-99 14:19 Received: 07-Dec-99 14:35									
Purgeable Hydrocarbons	ND	500	ug/l	10	9L09001	09-Dec-99	09-Dec-99	EPA 8015M/8020	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	4400	25	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*93.3 %*	*70-130*		"	"	"	"	

Alan B. Kemp, Laboratory Director

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	23-Dec-99 10:52

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (W912147-04) Water	**Sampled: 06-Dec-99 14:58**	**Received: 07-Dec-99 14:35**							**P-01**
Purgeable Hydrocarbons	**41000**	5000	ug/l	100	9L09001	09-Dec-99	09-Dec-99	EPA	
Benzene	**3200**	50	"	"	"	"	"	8015M/8020	
Toluene	**3500**	50	"	"	"	"	"	"	
Ethylbenzene	**1300**	50	"	"	"	"	"	"	
Xylenes (total)	**8300**	50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*120 %*	*70-130*		"	"	"	"	
MW-4 (W912147-05) Water	**Sampled: 06-Dec-99 11:05**	**Received: 07-Dec-99 14:35**							
Purgeable Hydrocarbons	ND	50	ug/l	1	9L09001	09-Dec-99	09-Dec-99	EPA	
Benzene	ND	0.50	"	"	"	"	"	8015M/8020	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*103 %*	*70-130*		"	"	"	"	
MW-7 (W912147-06) Water	**Sampled: 06-Dec-99 13:41**	**Received: 07-Dec-99 14:35**							**P-02**
Purgeable Hydrocarbons	**1900**	1000	ug/l	20	9L10001	10-Dec-99	10-Dec-99	EPA	
Benzene	**350**	10	"	"	"	"	"	8015M/8020	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Methyl tert-butyl ether	**1100**	50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*117 %*	*70-130*		"	"	"	"	

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Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568	Project: Tosco Project Number: Tosco # 7376 Project Manager: Deanna L. Harding	**Reported:** 23-Dec-99 10:52

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 (W912147-07) Water Sampled: 06-Dec-99 13:02 Received: 07-Dec-99 14:35									
Purgeable Hydrocarbons	ND	50	ug/l	1	9L09001	09-Dec-99	09-Dec-99	EPA 8015M/8020	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	**150**	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*107 %*	*70-130*		"	"	"	"	
MW-9 (W912147-08) Water Sampled: 06-Dec-99 12:25 Received: 07-Dec-99 14:35									
Purgeable Hydrocarbons	ND	50	ug/l	1	9L09001	09-Dec-99	09-Dec-99	EPA 8015M/8020	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	3.0	2.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*100 %*	*70-130*		"	"	"	"	

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	23-Dec-99 10:52

Diesel Hydrocarbons (C9-C24) by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (W912147-02) Water	**Sampled: 06-Dec-99 11:40**	**Received: 07-Dec-99 14:35**							
Diesel Range Hydrocarbons	ND	50	ug/l	1	9L09004	09-Dec-99	16-Dec-99	EPA 8015M	
Surrogate: n-Pentacosane		*87.1 %*	*50-150*		"	"	"	"	
MW-2B (W912147-03) Water	**Sampled: 06-Dec-99 14:19**	**Received: 07-Dec-99 14:35**							
Diesel Range Hydrocarbons	**850**	71	ug/l	1	9L09004	09-Dec-99	17-Dec-99	EPA 8015M	D-02
Surrogate: n-Pentacosane		*90.3 %*	*50-150*		"	"	"	"	
MW-3 (W912147-04) Water	**Sampled: 06-Dec-99 14:58**	**Received: 07-Dec-99 14:35**							
Diesel Range Hydrocarbons	**4200**	50	ug/l	1	9L09004	09-Dec-99	17-Dec-99	EPA 8015M	D-14
Surrogate: n-Pentacosane		*84.1 %*	*50-150*		"	"	"	"	
MW-4 (W912147-05) Water	**Sampled: 06-Dec-99 11:05**	**Received: 07-Dec-99 14:35**							
Diesel Range Hydrocarbons	95	63	ug/l	1	9L09004	09-Dec-99	17-Dec-99	EPA 8015M	D-06
Surrogate: n-Pentacosane		*81.7 %*	*50-150*		"	"	"	"	
MW-7 (W912147-06) Water	**Sampled: 06-Dec-99 13:41**	**Received: 07-Dec-99 14:35**							
Diesel Range Hydrocarbons	220	50	ug/l	1	9L09004	09-Dec-99	17-Dec-99	EPA 8015M	D-14
Surrogate: n-Pentacosane		*63.1 %*	*50-150*		"	"	"	"	
MW-8 (W912147-07) Water	**Sampled: 06-Dec-99 13:02**	**Received: 07-Dec-99 14:35**							
Diesel Range Hydrocarbons	160	100	ug/l	1	9L09004	09-Dec-99	17-Dec-99	EPA 8015M	D-12
Surrogate: n-Pentacosane		*79.6 %*	*50-150*		"	"	"	"	
MW-9 (W912147-08) Water	**Sampled: 06-Dec-99 12:25**	**Received: 07-Dec-99 14:35**							
Diesel Range Hydrocarbons	ND	63	ug/l	1	9L09004	09-Dec-99	17-Dec-99	EPA 8015M	
Surrogate: n-Pentacosane		*79.3 %*	*50-150*		"	"	"	"	

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Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568	Project: Tosco Project Number: Tosco # 7376 Project Manager: Deanna L. Harding	**Reported:** 23-Dec-99 10:52

Volatile Organic Compounds by EPA Method 8260A

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-9 (W912147-08) Water Sampled: 06-Dec-99 12:25 Received: 07-Dec-99 14:35									
tert-Butyl alcohol	ND	100	ug/l	1	9L13022	10-Dec-99	10-Dec-99	EPA 8260A	
Methyl tert-butyl ether	2.7	2.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	2.0	"	"	"	"	"	"	
tert-Amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Ethylene dibromide	ND	2.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*104 %*		*50-150*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*98.0 %*		*50-150*	"	"	"	"	

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	23-Dec-99 10:52

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9L09001: Prepared 09-Dec-99 Using EPA 5030B [P/T]										
Blank (9L09001-BLK1)										
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*33.1*		"	*30.0*		*110*	*70-130*			
LCS (9L09001-BS1)										
Benzene	19.2	0.50	ug/l	20.0		96.0	70-130			
Toluene	19.5	0.50	"	20.0		97.5	70-130			
Ethylbenzene	19.5	0.50	"	20.0		97.5	70-130			
Xylenes (total)	60.4	0.50	"	60.0		101	70-130			
Surrogate: a,a,a-Trifluorotoluene	*29.5*		"	*30.0*		*98.3*	*70-130*			
Matrix Spike (9L09001-MS1)					**Source: W912091-04**					
Benzene	18.7	0.50	ug/l	20.0	ND	93.5	70-130			
Toluene	19.0	0.50	"	20.0	ND	95.0	70-130			
Ethylbenzene	17.8	0.50	"	20.0	ND	89.0	70-130			
Xylenes (total)	60.0	0.50	"	60.0	ND	100	70-130			
Surrogate: a,a,a-Trifluorotoluene	*28.7*		"	*30.0*		*95.7*	*70-130*			
Matrix Spike Dup (9L09001-MSD1)					**Source: W912091-04**					
Benzene	20.7	0.50	ug/l	20.0	ND	104	70-130	10.2	20	
Toluene	20.9	0.50	"	20.0	ND	104	70-130	9.52	20	
Ethylbenzene	18.5	0.50	"	20.0	ND	92.5	70-130	3.86	20	
Xylenes (total)	65.8	0.50	"	60.0	ND	110	70-130	9.22	20	
Surrogate: a,a,a-Trifluorotoluene	*31.6*		"	*30.0*		*105*	*70-130*			

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Sequoia Analytical

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Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568	Project: Tosco Project Number: Tosco # 7376 Project Manager: Deanna L. Harding	**Reported:** 23-Dec-99 10:52

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9L10001: Prepared 10-Dec-99 Using EPA 5030B [P/T]										
Blank (9L10001-BLK1)										
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	*33.4*		"	*30.0*		*111*	*70-130*			
LCS (9L10001-BS1)										
Benzene	17.8	0.50	ug/l	20.0		89.0	70-130			
Toluene	17.9	0.50	"	20.0		89.5	70-130			
Ethylbenzene	18.1	0.50	"	20.0		90.5	70-130			
Xylenes (total)	56.1	0.50	"	60.0		93.5	70-130			
Surrogate: a,a,a-Trifluorotoluene	*30.5*		"	*30.0*		*102*	*70-130*			
Matrix Spike (9L10001-MS1)					**Source: W912201-06**					
Benzene	20.0	0.50	ug/l	20.0	ND	100	70-130			
Toluene	21.4	0.50	"	20.0	1.1	101	70-130			
Ethylbenzene	21.2	0.50	"	20.0	ND	106	70-130			
Xylenes (total)	64.6	0.50	"	60.0	2.0	104	70-130			
Surrogate: a,a,a-Trifluorotoluene	*31.2*		"	*30.0*		*104*	*70-130*			
Matrix Spike Dup (9L10001-MSD1)					**Source: W912201-06**					
Benzene	21.8	0.50	ug/l	20.0	ND	109	70-130	8.61	20	
Toluene	23.0	0.50	"	20.0	1.1	109	70-130	7.21	20	
Ethylbenzene	21.9	0.50	"	20.0	ND	109	70-130	3.25	20	
Xylenes (total)	68.4	0.50	"	60.0	2.0	111	70-130	5.71	20	
Surrogate: a,a,a-Trifluorotoluene	*32.8*		"	*30.0*		*109*	*70-130*			

Alan B. Kemp, Laboratory Director

Sequoia Analytical

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Gettler Ryan, Inc. - Dublin	Project: Tosco	
6747 Sierra Court Suite J	Project Number: Tosco # 7376	**Reported:**
Dublin CA, 94568	Project Manager: Deanna L. Harding	23-Dec-99 10:52

Diesel Hydrocarbons (C9-C24) by DHS LUFT - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9L09004: Prepared 09-Dec-99 Using EPA 3510B										
Blank (9L09004-BLK1)										
Diesel Range Hydrocarbons	ND	50	ug/l							
Surrogate: n-Pentacosane	*30.0*		"	*33.3*		*90.1*	*50-150*			
LCS (9L09004-BS1)										
Diesel Range Hydrocarbons	533	50	ug/l	500		107	60-140			
Surrogate: n-Pentacosane	*32.0*		"	*33.3*		*96.1*	*50-150*			
LCS Dup (9L09004-BSD1)										
Diesel Range Hydrocarbons	552	50	ug/l	500		110	60-140	3.50	50	
Surrogate: n-Pentacosane	*31.3*		"	*33.3*		*94.0*	*50-150*			

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Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568	Project: Tosco Project Number: Tosco # 7376 Project Manager: Deanna L. Harding	**Reported:** 23-Dec-99 10:52

Volatile Organic Compounds by EPA Method 8260A - Quality Control

Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9L13022: Prepared 10-Dec-99 Using EPA 5030B [P/T]										
Blank (9L13022-BLK1)										
tert-Butyl alcohol	ND	100	ug/l							
Methyl tert-butyl ether	ND	2.0	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
1,2-Dichloroethane	ND	2.0	"							
tert-Amyl methyl ether	ND	2.0	"							
Ethylene dibromide	ND	2.0	"							
Surrogate: Dibromofluoromethane	*30.0*		"	*25.0*		*120*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*31.0*		"	*25.0*		*124*	*50-150*			
LCS (9L13022-BS1)										
Methyl tert-butyl ether	25.5	2.0	ug/l	25.0		102	70-130			
Surrogate: Dibromofluoromethane	*28.0*		"	*25.0*		*112*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*27.0*		"	*25.0*		*108*	*50-150*			
Matrix Spike (9L13022-MS1)					**Source: W912027-03**					
Methyl tert-butyl ether	25.7	2.0	ug/l	25.0	ND	103	60-150			
Surrogate: Dibromofluoromethane	*25.0*		"	*25.0*		*100*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*22.0*		"	*25.0*		*88.0*	*50-150*			
Matrix Spike Dup (9L13022-MSD1)					**Source: W912027-03**					
Methyl tert-butyl ether	30.1	2.0	ug/l	25.0	ND	120	60-150	15.8	25	
Surrogate: Dibromofluoromethane	*25.0*		"	*25.0*		*100*	*50-150*			
Surrogate: 1,2-Dichloroethane-d4	*23.0*		"	*25.0*		*92.0*	*50-150*			

Alan B. Kemp, Laboratory Director

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Gettler Ryan, Inc. - Dublin 6747 Sierra Court Suite J Dublin CA, 94568	Project: Tosco Project Number: Tosco # 7376 Project Manager: Deanna L. Harding	**Reported:** 23-Dec-99 10:52

Notes and Definitions

D-02	Chromatogram Pattern: Unidentified Hydrocarbons C9-C40.
D-06	Discrete peaks.
D-12	Chromatogram Pattern: Unidentified Hydrocarbons > C16
D-14	Chromatogram Pattern: Unidentified Hydrocarbons C9-C24
P-01	Chromatogram Pattern: Gasoline C6-C12
P-02	Chromatogram Pattern: Gasoline C6-C12 + Unidentified Hydrocarbons <C6
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Alan B. Kemp, Laboratory Director

TOSCO

Tosco Marketing Company
2000 Crow Canyon Pl., Ste. 400
San Ramon, California 94583

Facility Address 4191 First Street, Pleasanton, CA
Consultant Project Number 180075.85
Consultant Name Gettler-Ryan Inc. (G-R Inc.)
Address 6747 Sierra Court, Suite J, Dublin, CA 94568
Project Contact (Name) Deanna L. Harding
(Phone) 510-551-7555 (Fax Number) 510-551-7888

(Phone) (~~510~~ 925) 277-~~2324~~ 2344
Laboratory Name Sequoia Analytical
Laboratory Release Number W912147
Samples Collected by (Name) Vasken Tashjian
Collection Date 12/6/99
Signature

Sample Number	Lab Sample Number	Number of Containers	Matrix (W = Water, S = Soil, A = Air, C = Charcoal)	Type (G = Grab, C = Composite, D = Discrete)	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed: TPH Gas + BTEX w/MTBE (8015)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)	8260 (5) OXY. Comp.	1,2-DCA & EDB (8260)				Remarks
TB-LB	01A	1	W	G		HCl	Y	X													DO NOT BILL TB-LB ANALYSIS
MW-1	02A-D	4	"	"	11:40 A	"	"	X	X												
MW-2B	03	4	"	"	2:19 P	"	"	X	X												
MW-3	04	4	"	"	2:58 P	"	"	X	X												
MW-4	05	4	"	"	11:55 A	"	"	X	X												
MW-7	06	4	"	"	1:14 P	"	"	X	X												
MW-8	07	4	"	"	1:02 P	"	"	X	X												
MW-9	08A-H	8	"	"	12:21 P	"	"	X	X							X	X				

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
	G-R Inc.	12/6/99 3:15 P		G-R Inc.	12/6/99 3:45
	G-R Inc.	12/7/99 0900		Seq An.	12/7/99 10:45
		12/7/99 14:35			12/7/99 14:35

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

PTS Laboratories, Inc.

Geotechnical Services

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December 28, 1999

Mr. Clyde Galantine
Gettler-Ryan
6747 Sierra Ct. Suite J.
Dublin, CA 94568

Re: Tosco # 7376/140107.04
PTS File: 29571

Dear Mr. Galantine:

Enclosed are final data for samples submitted from your Tosco 7376 Project # 140107.04. All analyses were performed by applicable ASTM, EPA or API methodology. Samples will be retained for 30 days before disposal unless other arrangements are made.

We appreciate the opportunity to be of service and trust these data will prove beneficial in the development of this project. Please feel free to call myself or Larry Kunkel, District Manager, should you have any questions or require additional information.

Sincerely,

PTS Laboratories, Inc.

Rick Young
Project Manager

RY/vk

encl.

PHYSICAL PROPERTIES DATA

(METHODOLOGY: ASTM D2216, ASTM D2937, API RP40, EPA 9045, Walkley-Black, ASTM D5084)

PROJECT NAME: Tosco #7376
PROJECT NO: 140107.04

SAMPLE ID.	DEPTH, ft.	SAMPLE ORIENT. (1)	MOISTURE CONTENT (% wt)	BULK DENSITY (g/cc)	POROSITY, %Vb (2)		SOIL pH	TOTAL ORGANIC CARBON mg/kg	25.0 PSI CONFINING STRESS	
					EFFECTIVE	AIR FILLED			NATIVE STATE EFFECTIVE PERMEABILITY TO WATER (5) (millidarcy)	NATIVE STATE EFFECTIVE HYDRAULIC CONDUCTIVITY (5) (cm/s)
MW-10	3.50	V	15.6	1.82	31.5	3.1	7.53	400	0.34	3.36E-07
MW-10	13.00	V	11.4	1.98	26.1	3.4	7.13	1600	0.80	7.77E-07

(1) Sample Orientation: H = horizontal; V = vertical (2) Effective Porosity = no pore fluids in place; all interconnected pore channels; Air Filled = pore channels not occupied by pore fluids (3) Water = 0.9981 g/cc; Hydrocarbon = 0.7500 g/cc (4) Native State = As received with pore fluids in place (5) Permeability to water and conductivity measured at saturated conditions

PTS Laboratories, Inc.

Gettler-Ryan Inc.
PTS File No: 29571

PARTICLE SIZE SUMMARY

(METHODOLOGY: ASTM D4464M)

PROJECT NAME: Tosco #7376
PROJECT NO: 140107.04

Sample ID	Depth, ft.	Description USCS/ASTM (1)	Median Grain Size mm	Particle Size Distribution, wt. percent						Silt & Clay
				Gravel	Sand Size			Silt	Clay	
					Coarse	Medium	Fine			
MW-10-3.5	3.5	Fine sand	0.024	0.00	0.00	13.53	18.36	50.83	17.28	68.11
MW-10-13	13	Fine sand	0.046	0.00	0.00	14.30	27.58	40.52	17.59	58.11

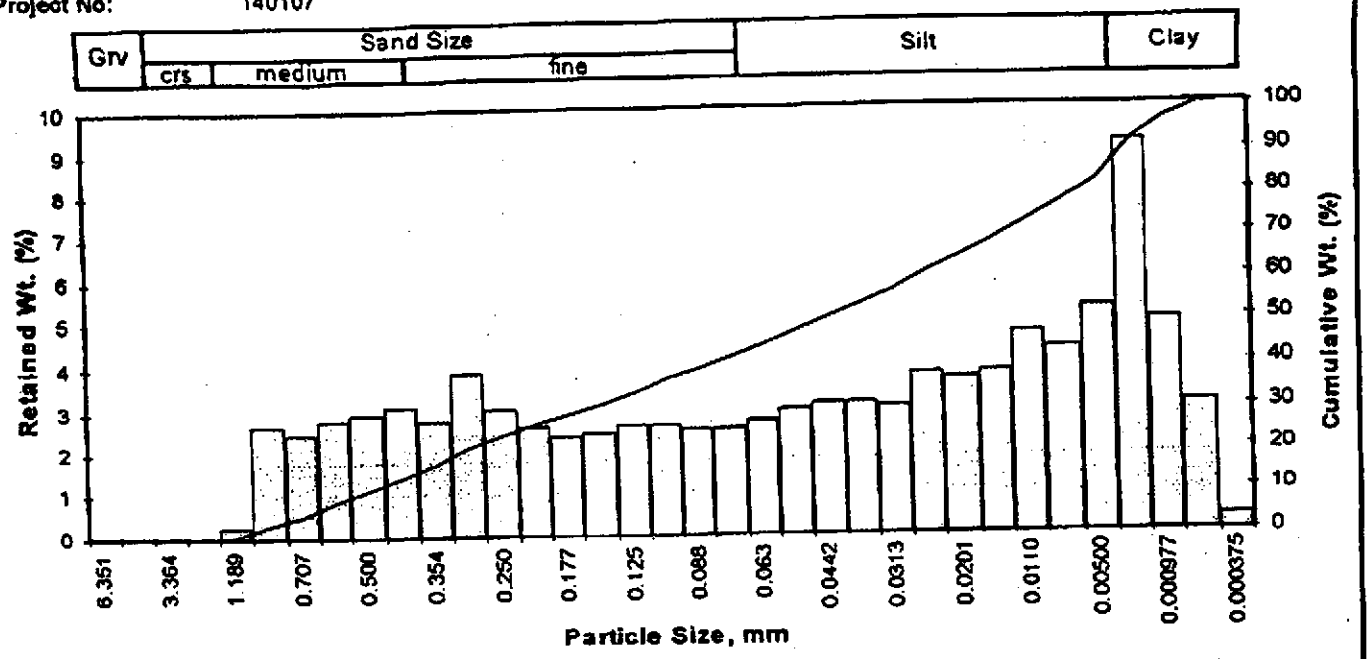
(1) based on Mean from Trask

PTS Laboratories, Inc.

Particle Size Analysis - ASTM D4464M

Client: Gettler-Ryan Inc.
Project: Tosco #7376
Project No: 140107

PTS File No: 29571
Sample ID: MW-10-13
Depth, ft: 13.00



Opening (Inches)	Opening (Millimeters)	Phi of Screen	U.S. No.	Sample Weight, grams	Increment Weight, percent	Cumulative Weight, percent
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0469	1.189	-0.25	16	0.26	0.26	0.26
0.0331	0.841	0.25	20	2.70	2.70	2.96
0.0278	0.707	0.50	25	2.45	2.45	5.41
0.0234	0.595	0.75	30	2.82	2.82	8.23
0.0197	0.500	1.00	35	2.96	2.96	11.19
0.0166	0.420	1.25	40	3.11	3.11	14.30
0.0139	0.354	1.50	45	2.76	2.76	17.06
0.0117	0.297	1.75	50	3.89	3.89	20.95
0.0098	0.250	2.00	60	3.06	3.06	24.01
0.0083	0.210	2.25	70	2.64	2.64	26.65
0.0070	0.177	2.50	80	2.37	2.37	29.03
0.0059	0.149	2.75	100	2.47	2.47	31.50
0.0049	0.125	3.00	120	2.64	2.64	34.14
0.0041	0.105	3.25	140	2.66	2.66	36.80
0.0035	0.088	3.50	170	2.55	2.55	39.35
0.0029	0.074	3.75	200	2.54	2.54	41.89
0.0025	0.063	4.00	230	2.72	2.72	44.61
0.0021	0.053	4.25	270	2.98	2.98	47.59
0.00174	0.0442	4.50	325	3.13	3.13	50.72
0.00146	0.0372	4.75	400	3.13	3.13	53.85
0.00123	0.0313	5.00	450	3.05	3.05	56.90
0.000986	0.0250	5.32	500	3.81	3.81	60.71
0.000790	0.0201	5.64	635	3.64	3.64	64.35
0.000615	0.0156	6.00		3.78	3.78	68.13
0.000435	0.0110	6.50		4.69	4.69	72.82
0.000308	0.00781	7.00		4.33	4.33	77.15
0.000197	0.00500	7.65		5.26	5.26	82.41
0.000077	0.00195	9.00		9.17	9.17	91.58
0.000038	0.000977	10.00		4.98	4.98	96.56
0.000019	0.000488	11.00		3.10	3.10	99.66
0.000015	0.000375	11.38		0.34	0.34	100.00
TOTALS				99.99	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.46	0.0287	0.728
10	0.90	0.0211	0.536
16	1.40	0.0149	0.375
25	2.09	0.0092	0.234
40	3.56	0.0033	0.085
50	4.44	0.0018	0.046
60	5.26	0.0010	0.026
75	6.75	0.0004	0.009
84	7.88	0.0002	0.004
90	8.77	0.0001	0.002
95	9.69	0.0000	0.001

Measure	Trask	Inman	Folk-Ward
Median, phi	4.44	4.44	4.44
Median in	0.0018	0.0018	0.0018
Median, mm	0.046	0.046	0.046
Mean, phi	3.04	4.64	4.58
Mean, in.	0.0048	0.0016	0.0017
Mean, mm	0.122	0.040	0.042
Sorting	0.199	3.238	3.017
Skewness	1.014	0.061	0.099
Kurtosis	0.211	0.425	0.812
Grain Size Description (ASTM-USCS Scale)		Fine sand (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	14.30
Fine Sand	200	27.58
Silt	>0.005 mm	40.52
Clay	<0.005 mm	17.59
	Total	100

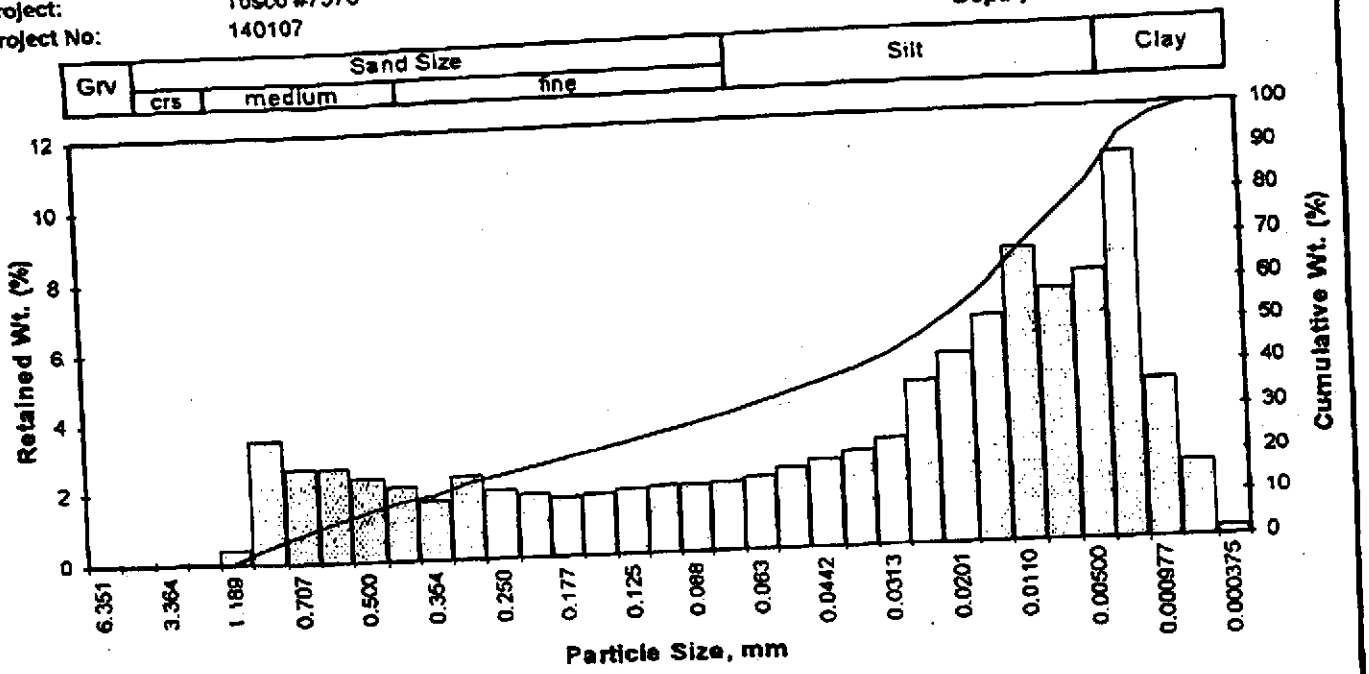
Phone: (562) 907-3607
Fax: (562) 907-3610

PTS Laboratories, Inc.

Particle Size Analysis - ASTM D4464M

Client: Gettler-Ryan Inc
Project: Tosco #7376
Project No: 140107

PTS File No: 29571
Sample ID: MW-10-3.5
Depth, ft: 3.50



Opening		Phi of	U.S.	Sample	Increment	Cumulative
Inches	Millimeters	Screen	No.	Weight, grams	Weight, percent	Weight, percent
0.2500	6.351	-2.67	1/4	0.00	0.00	0.00
0.1873	4.757	-2.25	4	0.00	0.00	0.00
0.1324	3.364	-1.75	6	0.00	0.00	0.00
0.0787	2.000	-1.00	10	0.00	0.00	0.00
0.0469	1.189	-0.25	16	0.42	0.42	0.42
0.0331	0.841	0.25	20	3.47	3.47	3.89
0.0278	0.707	0.50	25	2.63	2.63	6.51
0.0234	0.595	0.75	30	2.63	2.63	9.14
0.0197	0.500	1.00	35	2.32	2.32	11.46
0.0166	0.420	1.25	40	2.07	2.07	13.53
0.0139	0.354	1.50	45	1.66	1.66	15.19
0.0117	0.297	1.75	50	2.32	2.32	17.51
0.0098	0.250	2.00	60	1.91	1.91	19.42
0.0083	0.210	2.25	70	1.75	1.75	21.17
0.0070	0.177	2.50	80	1.63	1.63	22.80
0.0059	0.149	2.75	100	1.70	1.70	24.50
0.0049	0.125	3.00	120	1.81	1.81	26.31
0.0041	0.105	3.25	140	1.85	1.85	28.16
0.0035	0.088	3.50	170	1.84	1.84	30.00
0.0029	0.074	3.75	200	1.89	1.89	31.89
0.0025	0.063	4.00	230	2.01	2.01	33.90
0.0021	0.053	4.25	270	2.20	2.20	36.10
0.00174	0.0442	4.50	325	2.41	2.41	38.51
0.00146	0.0372	4.75	400	2.64	2.64	41.15
0.00123	0.0313	5.00	450	2.97	2.97	44.12
0.000986	0.0250	5.32	500	4.47	4.47	48.58
0.000790	0.0201	5.64	635	5.26	5.26	53.84
0.000615	0.0156	6.00		6.27	6.27	60.11
0.000435	0.0110	6.50		8.16	8.16	68.27
0.000308	0.00781	7.00		7.00	7.00	75.27
0.000197	0.00500	7.65		7.45	7.45	82.72
0.000077	0.00195	9.00		10.69	10.69	93.40
0.000038	0.000977	10.00		4.31	4.31	97.71
0.000019	0.000488	11.00		2.08	2.08	99.79
0.000015	0.000375	11.38		0.21	0.21	100.00
TOTALS				100.02	100.00	100.00

Cumulative Weight Percent greater than			
Weight percent	Phi Value	Particle Size	
		Inches	Millimeters
5	0.36	0.0306	0.781
10	0.84	0.0220	0.558
16	1.59	0.0131	0.333
25	2.82	0.0056	0.142
40	4.64	0.0016	0.040
50	5.41	0.0009	0.024
60	5.99	0.0006	0.016
75	6.98	0.0003	0.008
84	7.81	0.0002	0.004
90	8.57	0.0001	0.003
95	9.37	0.0001	0.002

Measure	Trask	Inman	Folk-Ward
Median, phi	5.41	5.41	5.41
Median, in.	0.0009	0.0009	0.0009
Median, mm	0.024	0.024	0.024
Mean, phi	3.74	4.70	4.93
Mean, in.	0.0029	0.0015	0.0013
Mean, mm	0.075	0.039	0.033
Sorting	0.236	3.110	2.921
Skewness	1.420	-0.228	-0.174
Kurtosis	0.121	0.449	0.888
Grain Size Description (ASTM-USCS Scale)		Fine sand (based on Mean from Trask)	

Description	Retained on Sieve #	Weight Percent
Gravel	4	0.00
Coarse Sand	10	0.00
Medium Sand	40	13.53
Fine Sand	200	18.36
Silt	>0.005 mm	50.83
Clay	<0.005 mm	17.28
	Total	100

Phone: (562) 907-3607
Fax: (562) 907-3610

29571

DATE | PTS FILE # | **CHAIN OF CUSTODY RECORD** | PAGE 1 OF 1

PTS Laboratories, Inc.
8100 Secura Way
Santa Fe Springs, CA 90670
Ph: (562) 907-3607 • Fax: (562) 907-3610

COMPANY: Tosco Marketing
PROJECT MANAGER: Dave DeWitt
PROJECT NAME: Tosco #7376
FAX NUMBER: (925) 551-7888
PROJECT NUMBER: 140107.04
PHONE NUMBER: (925) 551-7555
SITE LOCATION: Tosco 7376
ADDRESS: 4191 First St. Pleasanton, CA
SAMPLER SIGNATURE: Clyde Galantine

ANALYSIS REQUEST

SAMPLE ID NUMBER	DATE	TIME	DEPTH, FT	PHYSICAL PROPERTIES PACKAGE API RP40	MOISTURE CONTENT, ASTM D2216	POROSITY, API RP40	GRAIN DENSITY, API RP40	BULK DENSITY, ASTM D3937	AIR PERMEABILITY, API RP40	SPECIFIC RETENTION/YEILD ASTM D425	CATION EXCHANGE CAPACITY, EPA 9080	SOIL pH, EPA 9045	GRAIN SIZE: DRY, 400 MESH	GRAIN SIZE: WET/DRY, 20 MICRON	GRAIN SIZE: LASER, 1 MICRON + SIEVE	HYDRAULIC CONDUCTIVITY, EPA 9100, API RP40	TOC: EPA 9060 WALKLEY-BLACK	PERMEABILITY V- ASTM D5084	NUMBER OF SAMPLES
MW-10-3.5	11/21/99	8:25	3.5		X	X		X				X			X		X	X	
MW-10-13	11/21/99	8:45	13		X	X		X				X			X		X	X	

PO#

SPECIAL HANDLING
24 HOURS
72 HOURS
5 DAYS
NORMAL
OTHER

SAMPLE CONDITIONS
RECEIVED ON ICE YES/NO
SEALED YES/NO
OTHER YES/NO

COMMENTS

1. RELINQUISHED BY: Clyde Galant
COMPANY: Getter-Ryan
DATE: 11/22/99 TIME: 12:30

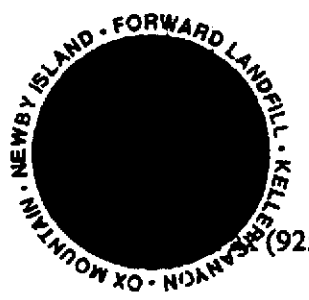
2. RECEIVED BY
COMPANY
DATE TIME

3. RELINQUISHED BY
COMPANY
DATE TIME

4. RECEIVED BY
COMPANY
DATE TIME

APPENDIX G

Waste Disposal Confirmation Form



(925) 551-7888

NORTHERN CALIFORNIA SALES OFFICE • SPECIAL WASTE

Forward • Keller Canyon • Newby Island • Ox Mountain

ALLIED WASTE COMPANIES

May 3, 2000

Gettler-Ryan, Inc.
Clyde Galantine
6747 Sierra Court , Suite J
Dublin, CA 94568

Re: ***FORWARD, INC.*** Approval No. 891300
Contaminated Soil from
4191 First Street
PLEASANTON, CA

Dear Mr. Galantine:

FORWARD, INC. is pleased to confirm the disposal of 2.88 tons of material as referenced above. The material was received at our Manteca, California facility for disposal on 11/09/99. The material was placed in a Class 2 waste management unit.

Approval for this material was based on the information provided in the waste profile and associated materials submitted on behalf of Tosco Marketing Company (Generator). Acceptance of the waste is subject to the "Terms and Conditions" agreed to and signed by the Generator on the Waste Profile Form.

Thank you for the opportunity to be of service. Should you have any questions regarding this matter, please contact me or Customer Service at (800) 204-4242.

Sincerely,

FORWARD, INC.

For

Brad J. Bonner
Sales Manager

BB/jg

ALLIED WASTE
INDUSTRIES, INC.
NORTHERN CALIFORNIA SALES OFFICE • SPECIAL WASTE
Forward • Keller Canyon • Newby Island • Ox Mountain

FAXED 3/7/00

Via Fax (925) 551-7888

March 7, 2000

Gettler-Ryan, Inc.
Clyde Galantine
6747 Sierra Court , Suite J
Dublin, CA 94568

Re: ***FORWARD, INC.*** Approval No. 898500
Contaminated Soil from
Tosco S/S# 7376 - 4191 First Street
Pleasanton, CA

Dear Mr. Galantine:

FORWARD, INC. is pleased to confirm the disposal of 6.93 tons of material as referenced above. The material was received at our Manteca, California facility for disposal on January 3, 2000. The material was placed in a Class 2 waste management unit.

Approval for this material was based on the information provided in the waste profile and associated materials submitted on behalf of Tosco Marketing Company (Generator). Acceptance of the waste is subject to the "Terms and Conditions" agreed to and signed by the Generator on the Waste Profile Form.

Thank you for the opportunity to be of service. Should you have any questions regarding this matter, please contact me or Customer Service at (800) 204-4242.

Sincerely,

FORWARD, INC.

For

Brad J. Bonner
Sales Manager

BB/jg