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Ms. Anne Jurek, M.S. Professional Technical Specialist II (Geology) Alameda County Department of Environmental Health 1131 Harbor Bay Parkway Alameda, CA 94502

Subject: Soil and Groundwater Investigation Work Plan Main Street Property 927 Main Street Pleasanton, California 94566 ACEH Fuel Leak Case No. RO0003199 GeoTracker Global ID No. T10000008158

Dear Ms. Jurek:

Equity Enterprises is pleased to present the enclosed work plan, prepared by Environmental Risk Assessors. The work plan presents the scope of work for a soil and groundwater investigation of the property located at 927 Main Street in Pleasanton, California. This work plan is submitted pursuant to the requirements specified in the directive issued by Alameda County Department of Environmental Health (ACDEH) dated February 14, 2017.

I have read and acknowledge the content, recommendations, and/or conclusions contained in the attached document or report submitted on my behalf to ACDEH's FTP server and the State Water Resource Control Board's GeoTracker website.

Please feel free to call me at 925-484-3636 if you have any questions.

Sincerely

Brad Hirst Equity Enterprises

(925) 484-3636

Email: brad ecquity-enterprises. net

-Fax (925) 484-3923



Soil and Groundwater Investigation Work Plan

Main Street Property 927 Main Street Pleasanton, California 94566

April 14, 2017

Prepared for: Equity Enterprises 4460 Black Avenue, Suite L Pleasanton, CA 94566

Prepared by: Environmental Risk Assessors 1420 East Roseville Parkway #140-262 Roseville, CA 95661

ACDEH Fuel Leak Case No. RO0003199

GeoTracker Global ID No. T1000008158

ERA Project No. 01-2016-1300-001





April 14, 2017

Mr. Bradley Hirst Equity Enterprises 4460 Black Avenue, Suite L Pleasanton, CA 94566

SUBJECT: Soil and Groundwater Investigation Work Plan Main Street Property 927 Main Street Pleasanton, California 94566 ACDEH Fuel Leak Case No. RO0003199 GeoTracker Global ID No. T1000008158 ERA Project No. 01-2016-1300-001

Dear Mr. Hirst,

The attached *Soil and Water Investigation Work Plan* ("the Work Plan") has been prepared by Environmental Risk Assessors (ERA) on behalf of Equity Enterprises for the above-referenced property (the Site). The Work Plan was prepared in accordance with a request from the Alameda County Health Care Services, Department of Environmental Health (ACDEH) as noted in their letter dated February 14, 2017. The proposed scope of work is presented in the attached work plan.

Please do not hesitate to contact me at (916) 677-9897 and via email at <u>litafreeman@gmail.com</u> if you have any questions or comments regarding this work plan.

Sincerely,

Environmental Risk Assessors

ita D. Fileman

Lita D. Freeman, PG #7368 Professional Geologist

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1420 East Roseville Parkway Suite 140-262 Roseville, California 95661

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- Figures and Boring Logs from Environmental Risk Assessor's Limited Phase II ESA Report dated November 27, 2015 and Soil and Groundwater Investigation Report dated October 10, 2016
- C ACDEH Closure Summary, (Former) Unocal Station #0543, 992 Main Street, Pleasanton, September 12, 1997
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CERTIFICATIONS

Report Prepared By:

Xita D. Fileman



April 14, 2017

Date

Lita D. Freeman, P.G. Principal Geologist California Professional Geologist No. 7368

* All information, conclusions, and recommendations in this document have been prepared under the supervision of and reviewed by a California Professional Geologist of Environmental Risk Assessors.

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1. INTRODUCTION

Environmental Risk Assessors (ERA) has prepared this *Soil and Groundwater Investigation Work Plan* (the "Work Plan") on behalf of Equity Enterprises for the property located at 927 Main Street in Pleasanton, Alameda County, California (the "Site"; Figure 1). This Work Plan was prepared in accordance with a request from Alameda County Health Care Services Agency, Department of Environmental Health (ACDEH) as noted in the letter dated February 14, 2017 (see Appendix A).

Background information in this Work Plan is based on information presented in Basics Environmental's (Basics Environmental) Phase I Environmental Site Assessment (Phase I ESA) report (Basics Environmental, 2013) and ERA's site investigation reports (ERA, 2015 and ERA, 2016). This Work Plan is focused on investigating petroleum hydrocarbons-impacted soil and groundwater. The Site has been listed as a case with the ACDEH and the California Environmental Protection Agency (Cal-EPA), State Water Resources Control Board (SWRCB). The following identification numbers have been assigned to the Site:

- ACDEH Fuel Leak Case No. RO0003199; and
- GeoTracker Global ID No. T1000008158.

1.1 Objective and Purpose

The ultimate objective for the Site is to obtain regulatory case closure. The purpose of the proposed work, as described in this Work Plan, is summarized as follows:

- Assess the source(s) of the petroleum hydrocarbons detected in soil and groundwater beneath the Site;
- Assess the lateral and vertical extent of petroleum hydrocarbons in soil;
- Assess the lateral extent of petroleum hydrocarbons in groundwater; and
- Evaluate site conditions with respect to SWRCB's *Low-Threat Underground Storage Tank Case Closure Policy* (LTCP) (SWRCB 2012).

1.2 Site Description

The Site is addressed 927 Main Street in Pleasanton, Alameda County, California, and consists of one approximately 8,115-square-foot parcel (see Figure 2). The Site is currently developed with one commercial building occupied by two tenants. Site-specific information is presented in Table 1.

Table 1. General Site Information						
Project Name: Main Street Property	Current Development: One 2,340-square-foot building					
Address: 927 Main Street, Pleasanton, Alameda County	Assessor Parcel Number (APN): 946-3370-22					
Location: Western side of Main Street	Occupants: Subway sandwiches and Hanadi Sushi restaurant					

2. BACKGROUND

2.1 Site History

The Alameda County Assessor's records indicated that a large parcel, identified as Alameda County APN 946-3370-7, was divided into five separate parcels in 1978. Two of these five parcels are currently identified as Alameda County APNs 946-3370-22 (927 Main Street; the Site) and 946-3370-19 (915 Main Street; the south and west adjoining property).

Historical information (including 1943 and 1953 Sanborn Fire Insurance Maps and 1951 aerial photograph) obtained by Basics Environmental during their Phase I ESA indicated that a portion of the Site was formerly occupied by a large rectangular building with an attached canopy on the building's southeastern corner prior to construction of the current on-site building. The former building was addressed 40 Santa Rita Road and was used as an auto repair facility from at least the late 1930s until the late 1960s. A gas and oil facility was present at the southeastern corner of the building from the late 1930s or early 1940s to the early 1950s. No specific information on former operations (i.e., capacity, type, and location of former underground storage tanks [USTs], pump island locations, auto maintenance areas, and use of hazardous materials, etc.) was obtained from the local regulatory agency files by Basics Environmental. In addition, no information regarding the removal of the USTs or associated sampling was contained within the local regulatory agency files Environmental. Anomalies indicative of USTs, backfilled tank excavations, etc. were not identified during a geophysical survey conducted in 2016 by CBRE, Inc. (CBRE, 2016) at the Site, the south and west adjoining property (915 Main Street), or the north adjoining property (929 Main Street) (CBRE, 2016).

A small rectangular building with an attached canopy was formerly located on the south adjacent property (915 Main Street), as shown in the 1951 aerial photograph and the 1953 Sanborn Fire Insurance Map. The building extended onto the southern portion of the Site. This building was addressed 40A Santa Rita Road and was used as a gas and oil facility.

The approximate footprints of the former large building (addressed 40 Santa Rita Road) and small building (addressed 40A Santa Rita Road) are shown on Figure 3 (see Appendix B) of ERA's *Soil and Groundwater Investigation Report* dated October 10, 2016 (ERA, 2016).

2.2 Previous Investigations

ERA conducted subsurface investigations at the Site in 2015 and 2016. The objective of the investigations was to evaluate current subsurface conditions in select on-site areas. To meet this objective, soil gas, soil, and/or groundwater samples were collected from five sampling locations, designated SB-1 through SB-5 on Figure 3, for analysis. As shown in Table 2, the analytical results for the samples collected during the investigations were compared to the Tier 1 Environmental Screening Levels (ESLs) as established by the California Environmental Protection Agency, San Francisco Bay Regional Water Quality Control Board (SFBRWQCB, 2016). Figures from ERA's 2015 (ERA, 2015) and 2016 (ERA, 2016) site investigation reports are presented in Appendix B.

2.2.1 Soil Gas

One soil gas sample has been collected from the Site to date. This sample was collected in 2016 from boring SB-3 which was advanced just south of the on-site building to evaluate the potential presence of volatile organic compounds (VOCs), in particular naphthalene because this compound was reported in the groundwater sample collected from boring SB-2 in 2015. Analysis of the soil gas sample revealed naphthalene at 11 micrograms per cubic meter (μ g/m³), which is

below the Tier 1 ESL of 41 μ g/m³. Methane was also reported in this sample at 0.0009 percent (%), which is below the lower explosive limit of 5%.

2.2.2 Soil

Soil samples were collected from the five borings at the following depths:

- The surface to 5- to 5.5-foot below ground surface (bgs) depth interval from each boring;
- The 5-foot to 10-foot depth interval from borings SB-3 through SB-5; and
- Deeper depth intervals (32 to 36 feet bgs) from borings SB-3 and SB-5.

These samples were analyzed for total petroleum hydrocarbons (TPH) quantified as gasoline (TPHg); TPH quantified as diesel (TPHd); TPH quantified as Stoddard solvent (TPHss); VOCs including benzene, methyl tert-butyl ether (MTBE), and naphthalene, and/or Leaking Underground Fuel Tank (LUFT) Manual 5 metals (cadmium, chromium, lead, nickel, and zinc). Petroleum hydrocarbons and VOCs were not reported in soil samples at concentrations at or above their respective laboratory reporting limit except as follows:

- TPHd in sample SB-2-2 at a concentration of 16 milligrams per kilogram (mg/kg) which is below the Tier 1 ESL of 240 mg/kg;
- TPHg in sample SB-3-32 at a concentration of 0.990 mg/kg which is below the Tier 1 ESL of 100 mg/kg; and
- Naphthalene in sample SB-5-36 at a concentration of 0.026 mg/kg which is slightly above the Tier 1 ESL of 0.023 mg/kg.

Soil samples SB-3-32 and SB-5-36 were collected from intervals exhibiting petroleum hydrocarbon staining (between 31 and 33 feet bgs in boring SB-3 and between 34 and 39 feet bgs in boring SB-5) and near the water table (soil was moist at a depth of 34 feet bgs and wet at a depth of 38 feet bgs in boring SB-3 and soil was moist at a depth of 29 feet bgs and wet at a depth of 37 feet bgs in boring SB-5). The petroleum hydrocarbons reported in these deeper soil samples (32 to 36 feet bgs) are likely related to migration of petroleum hydrocarbons in groundwater because shallow soil in these borings were not stained and the sample depths were at or just above the water table.

The concentrations of metals reported were below their respective Tier 1 ESLs and/or regional background levels.

2.2.3 Groundwater

Groundwater samples collected from each boring were submitted for analyses as follows: TPHg; TPHd; TPHss; VOCs including benzene, MTBE, and naphthalene; and/or LUFT 5 metals.

Petroleum hydrocarbons and constituents were reported in the groundwater samples as follows:

- TPHg in samples SB-2-W (at a concentration of 1,400 micrograms per liter [µg/L]) and SB-5-W (at 230 µg/L) which are above the Tier 1 ESL of 100 µg/L; TPHg was not reported in samples SB-1-W, SB-3-W, or SB-4-W at concentrations at or above the laboratory reporting limit of 50 µg/L;
- TPHd in samples SB-1-W (at 120 μg/L) and SB-2-W (at 1,000 μg/L) which are above the Tier 1 ESL of 100 μg/L; TPHd was not reported in samples SB-3-W, SB-4-W, or SB-5-W at concentrations at or above the laboratory reporting limit of 50 μg/L;

- TPHss in samples SB-2-W (at 1,400 μg/L) and SB-5-W (at 940 μg/L) which are above the Tier 1 ESL of 100 μg/L; TPHss was not reported in samples SB-1-W, SB-3-W, or SB-4-W at concentrations at or above the laboratory reporting limit of 50 μg/L; and
- Naphthalene in samples SB-2-W (at 5.3 μg/L) and SB-5-W (at 19 μg/L) which are above the Tier 1 ESL of 0.12 μg/L; naphthalene was not reported at concentrations at or above the laboratory reporting limit of 0.5 μg/L for SB-1-W and 1 μg/L for SB-3-W and SB-4-W.

Various VOCs, including ethylbenzene and toluene, were detected in groundwater samples SB-2-W, SB-3-W, and SB-5-W. The concentrations of VOCs were below their respective Tier 1 ESL (see Table 2) with the exception of total xylenes reported in groundwater sample SB-5-W at a concentration of 40 μ g/L, which is above its ESL of 20 μ g/L. Analysis of the groundwater samples collected from borings SB-1 and SB-2 for metals revealed chromium in sample SB-1-W at a concentration of 0.63 μ g/L and nickel in samples SB-1-W and SB-2-W at concentrations of 1.8 μ g/L and 4.8 μ g/L, respectively.

3. PRELIMINARY CONCEPTUAL SITE MODEL

The Conceptual Site Model (CSM) documents the physical setting, chemicals of potential concern (COPCs), COPC sources, COPC distribution in soil gas, soil, and/or groundwater (including plume stability), potential migration pathways, and potential receptors/exposure pathways. Data collected during the investigations conducted to date, which indicate a release of petroleum hydrocarbons has impacted the Site, have been used to develop a site-specific preliminary CSM. The purpose of the preliminary CSM is to help identify data gaps and to aid in the evaluation of the data collected to date from the Site.

The site-specific preliminary CSM is presented in ERA's soil and groundwater investigation report (ERA, 2016). Portions of the preliminary CSM are presented below to address ACDEH's comments as noted in the letter dated February 14, 2017 (ACDEH, 2017).

3.1 Site-Specific Geology and Hydrogeology

During ERA's subsurface investigations at the Site in 2015 (ERA, 2015) and 2016 (ERA, 2016), silt and silty clay were encountered from below the asphalt/baserock in boring SB-1 (located north of the on-site building) to the maximum depth explored of 40 feet bgs, and from below the topsoil in boring SB-5 (located east of the on-site building) to the maximum depth explored of 39 feet bgs.

Coarse-grained sediments were encountered in borings SB-2, SB-3, and SB-4, located south of the on-site building. In boring SB-2, sandy gravel was encountered from a depth of approximately 10 to 20 feet bgs; silt with gravel was present above this sandy gravel and silty clay was present from 20 feet bgs to the maximum depth explored of 36 feet bgs. Sandy gravel was encountered in borings SB-3 and SB-4 from below the asphalt/baserock to depths of approximately 14 feet bgs and 8 feet bgs, respectively; silty clay was generally present below the sandy gravel.

The upper 20 feet of soil in boring SB-2 was identified as fill material during the 2015 investigation (ERA, 2015) based on the differences in soil types between borings SB-1 and SB-2 and heterogeneity of the silt with gravel and sandy gravel in boring SB-2. Silt was present beneath asphalt in both borings; however, the sandy gravel encountered in boring SB-2 was not encountered in boring SB-1. The heterogeneity of the sandy gravel, lack of coarse-grained sediments in boring SB-1, and limited site-specific data on geologic material (only borings SB-1 and SB-2 had been advanced at that time) led to the conclusion that near-surface sediments in boring SB-2 were fill material. Data collected from subsequent borings (SB-3, -4, and -5) advanced by

ERA resulted in the conclusion that the near-surface soil, including the coarse-grained sediments, in borings SB-2 and SB-3 was not fill material.

In addition, no anomalies indicative of backfilled excavations were identified during the geophysical survey conducted by CBRE in 2016 at the Site, the adjoining property (915 Main Street) to the south and west, or the adjoining property (929 Main Street) to the north (CBRE, 2016).

Similar sediments were encountered in borings advanced on the former Unocal property located to the east of the Site across Main Street. Soils encountered in borehole MW-3, located approximately 115 feet east of the Site's eastern border, reportedly consisted of sandy silt and silt from below the asphalt to a depth of approximately 15 feet bgs; sandy gravel from approximately 15 to 17 feet bgs; silt, clayey silt, and sandy silt between approximately 17 to 49 feet bgs; and silty sand between approximately 49 to 50 feet bgs. Soil with coarse-grained sediments, including silt with gravel, silty sand, sandy silt, sandy gravel, and sand with gravel, were encountered in boreholes MW-1 (below the asphalt to approximately 30 feet bgs), MW-2 (approximately 47 to 50 feet bgs), and MW-4 (below the asphalt to 50 feet bgs). Copies of boring logs from Unocal's case closure summary dated September 12, 1997, are presented in Appendix C.

ERA concludes that native soil rather than fill material is present in borings SB-2 and SB-3 based on the available data, including observations of soil types in borings SB-3, -4, and -5, the results of CBRE's geophysical survey, and review of borings logs for boreholes advanced on the Unocal property. These sediments are possibly stream-laid deposits by the ancestral Arroyo Del Valle, located approximately 325 feet south of the Site. Stream-laid deposits can present a heterogeneous appearance which can appear to be fill material in the absence of sufficient data.

3.2 Nearby Wells

A water well survey was conducted by ETIC Engineering, Inc. (ETIC) in 2010 for the former Mobilbranded gasoline service station located to the northeast of the Site across Main Street at 1024 Main Street. To update the data collected by ETIC (ETIC, 2010), ERA contacted the California Department of Water Resources (DWR) and Zone 7 Water Agency (Zone 7) for water-supply wells within an approximately 2,000-foot radius of the Site. Alameda County Public Works Agency (ACPWA) was also contacted by ERA for information on water-supply wells in site vicinity as directed in ACDEH's letter dated February 14, 2017. According to Mr. James Yoo of the ACPWA, information on water-supply wells for the site vicinity is maintained by Zone 7.

The approximate locations of the wells identified within the search radius are shown in Figure 4. Table 3 presents the data provided to ERA by DWR and Zone 7 and obtained from ETIC's report (ETIC, 2010). Information provided by DWR and Zone 7 is included in Appendix D.

One well, identified as 3S-1E-16-N80 by DWR, would be within the same section as the Site (3S-1E-16-N); however, the exact location of this well could not be established by DWR based on the data presented in the log. In addition, the use and current status of this well was not available. The log provided by DWR did not list a drilling date but indicates that this well was included in the Spring Valley Water Company 1912 report. The well was reportedly drilled to depth of 178 feet bgs. A map provided by Zone 7 presented symbols indicating various types of water wells (water-supply, monitoring, etc.) within the search area. An open red diamond symbol was on the north adjoining property which indicates that a destroyed water well was present at that location, according to Mr. Wyman Hong of Zone 7. Mr. Bradley Hirst and Mr. Darrick Sun had no information on a water well having been located on the property adjacent to the north of their parcels. No records were found during the Phase I ESA by Basics Environmental regarding the presence of a water-supply well on

the Site or the adjoining parcels, no further information on well 3S-1E-16-N80 was available from the DWR or Zone, and no anomalies indicative of a water well were identified during a geophysical survey conducted in 2016 by CBRE at the Site, the adjoining property (915 Main Street) to the south and west, or the adjoining property (929 Main Street) to the north.

As noted in Table 3, seven wells identified within the search area are reported as active:

- two privately owned water-supply wells located approximately 410 feet south of the Site in an upgradient direction (identified as C1 and C3 on Figure 4);
- two privately owned water-supply wells located approximately 1,450 feet east of the Site in a crossgradient direction (identified as B2 and B3 on Figure 4); and
- three municipal water-supply wells are located approximately 2,150 feet north of the Site in a downgradient direction (identified as L1, L5, and L7 on Figure 4).

One water-supply well (identified as C4 in Table 3) located approximately 410 feet south of the Site in a upgradient direction and one municipal water-supply well (identified as L2 in Table 3) located approximately 2,150 feet north of the Site in a downgradient direction are not reported as active.

The logs for seven wells provided by DWR and Zone 7 did not include the exact locations, owners, use, and status of the wells. However, these wells were identified as being within the search area based on the township, range, section, subsection information. These wells are identified as 3S-1E-16-L80, 3S-1E-16-L81, 3S-1E-16-L82, 3S-1E-16-L, 3S-1E-16-M80, 3S-1E-16-M81, and 3S-1E-17-J1 in Table 3 and would be at least 1,000 feet north to northwest of the Site based on the distance of the Site to the borders of the subsections L, M, and J.

Nine wells were reported by DWR and/or Zone 7 as destroyed. These wells are identified as 3S-1E-16-P1, 3S-1E-16-P2, 3S-1E-17-J2, 3S-1E-16-M2, 3S-1E-16-M3, 3S-1E-16-M1, 3S-1E-16-Q1, 3S-1E-16-L11, and 3S-1E-16-L10 in Table 3.

Based on the available information, the nearest active well is more than 400 feet south and upgradient of the Site with respect to the site location and inferred local groundwater flow direction. The nearest active or possibly active well located in a downgradient direction was more than 1,000 feet north to northwest from the Site.

3.3 Potential Sources: On-site, Off-site

As noted above in Section 2.1, a former on-site building was used as an auto repair facility from at least the late 1930s until the late 1960s with a gas and oil facility present from the late 1930s or early 1940s to the early 1950s. A small rectangular building, used as a gas and oil facility, extended onto the Site's southern portion from the south adjacent property in the 1950s. The primary sources of petroleum hydrocarbons would likely be fuel tanks or other storage containers associated with gas and oil facilities. As previously indicated, the buildings occupied by gas and oil facilities were removed before construction of the existing building on the Site and the adjoining property to the south and west. No documentation on the USTs removal was obtained by Basics Environmental.

Secondary sources at the Site would be residual mass of petroleum hydrocarbons in soil and groundwater beneath the Site. To date, nine soil samples from five borings have been collected and analyzed for petroleum hydrocarbons. TPHd was reported in one shallow sample (SB-2-2) and TPHg was reported in one deep sample (SB-3-32). Petroleum hydrocarbons staining was not observed in borings SB-1 and SB-4 or in soil above a depth of 30 feet in borings SB-2, SB-3, and SB-5. No significant secondary or residual sources of petroleum hydrocarbons in soil have been

identified on site, based on the data obtained to date, including: 1) lack of petroleum hydrocarbons detections in soil above a depth of 30 feet except for TPHd in one sample, and 2) lack of petroleum hydrocarbons staining in soil above a depth of 30 feet. Based on the available data, the residual mass of petroleum hydrocarbons in groundwater appears localized to the southeastern corner of the on-site building.

4. POTENTIAL DATA GAPS

Based on a review of available data and the preliminary CSM prepared for the Site, the potential data gaps identified include the following:

- Secondary/residual sources in soil beneath the Site have not been adequately defined to evaluate potential direct contact and outdoor air exposure. Collection and analysis of additional soil samples from the Site is proposed to address this data gap.
- Secondary/residual sources and the extent of the petroleum hydrocarbons in groundwater beneath the Site have not been defined adequately. Collection and analysis of additional groundwater samples from the Site is proposed to address this data gap.
- The potential for vapor intrusion to indoor air from residual subsurface sources has not been adequately assessed in the area of the gasoline plume. As noted in Section 2.2.3, naphthalene was reported in the groundwater and soil gas samples from boring SB-2 at concentrations of 5.3 µg/L and 11 µg/m³, respectively. Analysis of the groundwater sample from boring SB-5 revealed naphthalene at a concentration of 19 µg/L. Although naphthalene is present in the soil gas and groundwater beneath the Site, the potential for a vapor intrusion concern is low based on the thickness (from 26 feet to 40 feet) of fine-grained sediments in the area of the on-site building. However, lack of soil gas data from the area of boring SB-5 has been identified as a data gap since the concentration of naphthalene in groundwater at boring SB-5 was approximately 4 times more than at boring SB-2. Collection and analysis of a soil gas sample from the area of boring SB-5 is proposed to address this data gap.

5. PROPOSED SUPPLEMENTAL SITE INVESTIGATION ACTIVITIES

To further evaluate the current subsurface conditions and address data gaps noted in Section 4, ERA will perform further investigations at the Site. The scope of work was designed in general accordance with the SWRCB's *Leaking Underground Fuel Tank Guidance Manual* (LUFT Manual) dated September 2012 and revised December 2015 (SWRCB, 2015).

At this time, borings are proposed at the locations shown on Figure 3; sample collection, rationale, and analysis are presented in Table 4.

ACDEH noted a discrepancy in gasoline concentrations in groundwater samples collected from these borings (1,400 μ g/L in SB-2) and (<50 μ g/L in SB-3). ACDEH suggested advancing a boring in this area to collect another groundwater sample for analysis to help address this discrepancy. In ERA's opinion, this discrepancy may be related to various factors. For example, changes in TPHg concentrations were documented in groundwater monitoring well MW-4 formerly located approximately 100 feet east of the Site across Main Street on the former Unocal property. TPHg was not reported in groundwater samples collected from this well between 1993 and 1997 except one time (August 1995) when TPHg was reported at a concentration of 63 μ g/L. The changes in TPHg concentrations in this well may have been related to seasonal variations (TPHg was not reported in groundwater samples collected in January 1995 or February 1996) and/or changes in

groundwater levels (a 5-foot fluctuation in depth to groundwater was documented in well MW-4 between November 1995 and February 1997). Based on the available information, the changes in TPHg concentrations in on-site borings SB-2 and SB-3 could be related to the following:

- Seasonal variations; SB-2 was sampled in November 2015 (4Q15) and SB-3 was sampled in August 2016 (3Q16);
- Changes in groundwater levels; the soil at 34 feet bgs in boring SB-2 was noted as "moist" while soil at 38 feet bgs in boring SB-3 was "wet";
- Petroleum hydrocarbon staining noted in these borings; moist soil present in boring SB-2 corresponded to the depth interval where petroleum hydrocarbon staining was observed (from approximately 30 to 34 feet bgs) while unsaturated soil present in boring SB-3 corresponded to the depth intervals where petroleum hydrocarbon staining was observed (from approximately 31 to 33 feet bgs and 34 to 36 feet bgs); and
- Nature of the sample collection method (grab samples) with higher levels of sediments.

Based on the above-noted information, the discrepancy in petroleum hydrocarbons concentrations in borings SB-2 and SB-3 may be due to collecting the groundwater sample from boring SB-2 when groundwater was in contact with stained soil and the groundwater sample from boring SB-3 when groundwater was not in contact with stained soil. ERA proposes advancing a boring (designated boring SB-2A on Figure 3) in the area of borings SB-2 and SB-3 to collect a groundwater sample for analysis to obtain data that will help further evaluate this discrepancy.

Additionally, ACDEH suggested advancing a boring to the east of boring SB-5 to define the east extent of the TPHg plume. Boring SB-5 was advanced in a narrow landscaping area adjacent to the east exterior wall of the on-site building. Immediately east of this landscaping area is an approximately 5-foot wide concrete sidewalk with Main Street located east of the sidewalk. The groundwater plume is unlikely to extend a significant distance east of boring SB-5 based on the low concentrations reported in the groundwater sample from this boring and lack of petroleum hydrocarbons in groundwater samples collected between August 1995 and February 1997 from groundwater monitoring well MW-4 (formerly located approximately 100 feet east of the Site across Main Street on the former Unocal property) except TPHg which was reported at a concentration of 63 µg/L in August 1995. Well MW-4 was destroyed after Unocal received case closure in late 1997. Eastward migration of the petroleum hydrocarbons plume from the Site would likely have impacted well MW-4 based on the timeframe when the gas and oil facilities were located on the west side of Main Street (prior to 1980) and monitoring events that included well MW-4 (early to mid-1990s). In lieu of advancing a boring within Main Street, ERA proposes to advance boring SB-6 near the northeastern corner of the on-site building to help define the east-northeast extent of the plume.

The proposed scope of work is presented below.

5.1 Pre-Field Activities

Before field activities associated with the proposed assessment are conducted, the pre-field tasks described below will be completed.

5.1.1 Health and Safety

ERA will prepare a site-specific *Health and Safety Plan* for the scope of work as required by the Occupational Health and Safety Administration (OSHA) Standard "Hazardous Waste Operations

and Emergency Response" guidelines (29 CFR 1910.120). The document will be reviewed and signed by ERA personnel and contractors performing work at the Site.

5.1.2 Permitting

ERA will obtain an encroachment permit from the City of Pleasanton, if necessary, to advance boring SB-5A for collecting a soil gas sample.

ERA will obtain a soil boring permit from Zone 7 before commencing intrusive field activities. ERA will coordinate field activities with Zone 7 and schedule a Zone 7 inspector to document compliance with permit requirements.

5.2 Field Activities

5.2.1 Utility Clearance

Before subsurface work is conducted at the Site, the proposed sampling locations will be cleared for underground utilities by notifying Underground Services Alert North (USA North) at least 48 hours prior to intrusive field activities. In addition, a private utility locating contractor will clear each proposed sampling location before the start of intrusive field activities. Proposed sampling locations will be adjusted, as necessary, to maintain a distance of at least 3 feet from identified underground utilities/structures.

5.2.2 Drilling and Sampling

ERA personnel will oversee a California licensed driller using a Geoprobe direct-push drilling rig during soil gas, soil, and groundwater sampling activities. The borings will be advanced to the proposed maximum depth (5 feet bgs for soil gas sampling and 40 feet bgs for soil and groundwater sampling), boring refusal, or groundwater, whichever is shallower. The proposed location, matrix, sample depth, and rationale for each sample are presented in Table 4.

The indoor air and ambient air samples will be collected in Summa canisters placed inside the building and in the area near the southeastern corner of the on-site building, respectively, over an 8-hour period. The valve of the Summa canisters will be located at a height of approximately 3 to 4 feet above the floor or ground surface to collect air samples from within the breathing zone.

The soil gas sample will be collected in general accordance with the protocols presented in the *Advisory Active Soil Gas Investigations* prepared by the Cal-EPA DTSC, LARWQCB, and RWQCB-SFB (DTSC, LARWQCB, and SFBRWQCB, 2015).

The soil gas sample will be collected from a temporary soil gas probe advanced to a depth of approximately 5 feet bgs. The soil gas probe will be placed outside the building footprint rather than inside the building because of access constraints. Concrete sidewalks and pavements extend from the perimeter of the buildings to the soil gas sampling location. Samples will be collected approximately 2 hours following installation of the soil gas probe. The soil gas well installation method and equilibration time will be recorded in the field log book.

Prior to purging or soil gas sampling, a shut-in test will be conducted to check for leaks in the above-ground sampling system. A leak test will be used to evaluate whether ambient air is introduced into the soil gas sample during the collection process. Helium, a gaseous tracer compound, will be used along with a shroud placed over the sampling equipment. The tracer gas that will be used during this project is 1,1-difluoroethane (1,1-DFA), which is the propellant found in duster spray. The leak test consists of sealing a cloth soaked in 1,1-DFA in a plastic bag,

placing the bag adjacent to the sampling train, and opening the bag after the valve on the Summa canister is opened to allow collection of the soil gas sample into the canister.

An ambient air leak of up to 5 percent will be deemed acceptable. Purging of three purge volumes will be performed to remove stagnant air from the sampling system so that representative samples can be collected from the subsurface. Flow rates between 100 to 200 milliliters per minute (mL/min) and vacuums less than 100 inches of water will be maintained during purging and sampling to minimize stripping (partitioning of vapors from pore water to soil gas), to prevent ambient air from diluting the soil gas samples, and to reduce variability between contractors.

The indoor air, ambient, and soil gas samples will be collected in evacuated 1-liter stainless steel Summa canisters equipped with regulators to control sample collection flow rate. Beginning and ending vacuum readings will be recorded for each canister.

A direct-push unit will be used to drive a steel probe equipped with a hardened, reverse-threaded steel driving point into the subsurface to allow collection of soil and groundwater samples.

Soil samples will be screened in the field at approximately 5-foot depth intervals with a photoionization detector (PID) and observed for evidence of chemical staining. As noted in Table 4, soil samples will be collected from borings SB-6 through SB-10 in new acetate sleeves at depths of approximately 2.0 to 2.5 feet and 7.0 to 7.5 feet and at depths where soil samples exhibited elevated PID readings and/or evidence of chemical staining. The acetate sleeves will be cut at the above noted depths to obtain samples for submittal to the analytical laboratory.

New polyvinyl chloride (PVC) casing (with slotted casing in the lower 10 feet and blank casing from above the slotted casing to the ground surface) will be placed in the boreholes and groundwater will be allowed to flow into the casing. ERA assumes that a sufficient quantity of groundwater will be collected in the PVC casing to fill the laboratory-provided containers appropriate for the requested analysis. Groundwater samples will be collected using a peristaltic pump. After the groundwater sampling activities are completed, the PVC casing will be removed and the boring will be backfilled in accordance with Zone 7 requirements. ERA anticipates that the groundwater sampling activities will be completed by the end of each field day and that the boreholes will not remain open overnight.

The soil and groundwater samples will be placed on ice and transported under chain-of-custody protocols to the project laboratory.

After the sampling activities are complete, each boring will be backfilled with cement grout and bentonite and sealed at grade with asphalt or soil, as appropriate. The investigation-derived waste (IDW), including soil cuttings and rinsate, produced during sampling activities will be containerized using appropriate containers, and disposal options will be evaluated after review of analytical data.

5.3 Analysis

The samples will be analyzed on a normal 5-business-day laboratory response time by a laboratory certified by the State of California to perform the requested analyses.

The indoor air, ambient, and soil gas samples will be analyzed for VOCs, including naphthalene, 1,2-dichloroethane (EDC [or 1,2-DCA]), and 1,2-dibromoethane (EDB), using U.S. Environmental

Protection Agency (U.S. EPA) Method TO-15. The ambient air sample will be collected for comparison to VOC concentrations, if any, reported in the indoor air sample.

The soil and groundwater samples will be analyzed for the following analytes:

- VOCs, including TPHg, benzene, toluene, ethylbenzene, xylenes (collectively BTEX), methyl tert-butyl ether (MTBE), tert-Butyl Alcohol (TBA), EDC (1,2-DCA), EDB, and naphthalene using U.S. EPA Method 8260B; and
- TPHd and TPHmo using U.S. EPA Method 8015B.

ACDEH noted that soil samples should be analyzed for VOCs using U.S. EPA Method 8260 with the full list of compounds reported by the laboratory. ERA notes that soil sample SB-2-2 was collected on November 13, 2015 and analyzed by U.S. EPA Method 8260 with the full list of compounds reported; VOCs were not reported at concentrations at or above their respective laboratory reporting limit. Soil sample SB-3-10 was collected on August 5, 2016 from boring SB-3 (located within approximately 3 feet of boring SB-2) and analyzed by U.S. EPA Method 8260 with a limited list of compounds reported (BTEX, MTBE, and naphthalene); VOCs were not reported at concentrations at or above their respective laboratory reporting limit. ERA proposes to analyze soil samples collected from the Site for the limited list of VOCs based on the following: 1) VOCs have not been reported at concentrations at or above their respective laboratory reporting limits in the seven shallow soil samples collected from a depth of less than 10 feet; 2) two samples (SB-1-5.5 and SB-2-2) of the seven shallow soil samples collected from the Site were analyzed by U.S. EPA Method 8260 with the full list of compounds reported and VOCs were not reported at concentrations at or above their respective laboratory reporting limit; and 3) compounds listed in Table 1 of the SWRCB's LTCP for evaluation of Direct Contact and Outdoor Air Criteria are limited to benzene. ethylbenzene, naphthalene, and poly-aromatic hydrocarbons (PAH; sampling and analysis for PAH is only necessary where soil has been affected by either waste oil or Bunker C fuel).

TPH analysis will be used as a site characterization tool to help establish the extent of petroleum hydrocarbons in the subsurface. The lead scavengers 1,2-DCA and EDB have been included in the analytical suite because the on-site gasoline service station operated before 1992. Although the on-site gasoline service operated before addition of MTBE and TBA to gasoline, these fuel oxygenates will be analyzed for to help establish if a "newer" release could have migrated onto the Site from an off-site source.

5.4 Report

The report of findings will present a summary of the previous investigations, as appropriate, and regulatory status, the procedures and results for this investigation, figures showing sampling locations, and tables presenting analytical results compared to published screening levels. Copies of the analytical laboratory report will be included in an appendix.

The report will be uploaded to ACDEH and SWRCB's GeoTracker websites. In addition, as required by the drilling permit, a copy of the report will be submitted to Zone 7 within 60 days of permit approval.

6. SCHEDULE

Work for the site investigation will begin immediately upon receipt of ACDEH's approval of the Work Plan. The report will be issued within 6 to 7 weeks from receipt of written authorization based

on the assumption that Zone 7 approves the drilling permit application and schedules and inspector within 10 business days and the driller has availability within the requested time frame.

7. LIMITATIONS

The opinions and recommendations presented in this workplan are based upon the scope of services, information obtained through the performance of the services, and the schedule as agreed upon by ERA and the party for whom this workplan was originally prepared. This workplan is an instrument of professional service and was prepared in accordance with the generally accepted standards and level of skill and care under similar conditions and circumstances established by the environmental consulting industry. No representation, warranty, or guarantee, express or implied, is intended or given. To the extent that ERA relied upon any information prepared by other parties not under contract to ERA, ERA makes no representation as to the accuracy or completeness of such information.

This workplan is expressly for the sole and exclusive use of the parties for which this workplan was originally prepared for a particular purpose. Only the parties for which this workplan was originally prepared and/or other specifically named parties, may make use of and rely upon the information in this workplan. Reuse of this SSI Workplan or any portion thereof for other than its intended purpose, or if modified, or if used by third parties without proper authorization, shall be at the user's sole risk.

The results of any investigations or testing and any findings presented in this workplan apply solely to conditions existing at the time when the assessment was performed. It must be recognized, however, that any such investigation or testing activities are inherently limited and do not represent a conclusive or complete characterization. Conditions in other parts of the project site may vary from those at the locations where data were collected. ERA's ability to interpret investigation results is related to the availability of the data and the extent of the investigation activities. As such, 100 percent confidence in environmental investigation conclusions cannot reasonably be achieved.

ERA, therefore, does not provide any guarantees, certifications, or warranties regarding any conclusions regarding environmental contamination of any such property. Furthermore, nothing contained in this document shall relieve any other party of its responsibility to abide by contract documents and applicable laws, codes, regulations, or standards.

8. REFERENCES

- Alameda County Health Care Services Agency, Department of Environmental Health (ACDEH). 2017. Work Plan Request for Fuel Leak Case No. RO0003199 and GeoTracker Global ID T1000008158, Main Street Property, 927 Main Street, Pleasanton, CA 94566. February 14.
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- California Environmental Protection Agency, Department of Toxic Substances Control (DTSC), Los Angeles Regional Water Quality Control Board (LARWQCB), San Francisco Bay Regional Water Quality Control Board (SFBRWQCB). 2015. *Advisory Active Soil Gas Investigations*. July.

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- ETIC Engineering, Inc. (ETIC). 2010. Detailed Well Survey Report, Former Mobil Station 04H6J, 1024 Main Street, Pleasanton, California. January 29.

Tables

Table 2 Soil and Groundwater Samples Organics Analytical Summary Main Street Property 927 Main Street Pleasanton, California

On-Site Location/ Comments	Sample ID	Sample Date	Sample Depth (feet bgs) ¹	Matrix	Petroleum Hydrocarbons ² Soil: mg/kg; Groundwater: μg/L			VOCs ³ Soil: mg/kg; Groundwater: µg/L					
Analytes					TPHg ³	TPHd ³	TPHSs ³	Benzene	MTBE	Naphthalene	Toluene	Ethylbenzene	Xylenes
ESL for Shallow Soil				100	240	100	0.044	0.023	0.023	2.9	1.4	2.3	
North of Former Gas Station Building	SB-1-5.5	11/13/2015	5.0 - 5.5	Soil	<1	<1	<1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
South of Former Gas Station Building	SB-2-2	11/13/2015	1.5 - 2.0	Soil	<1	16	<1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
South of Former Gas Station Building	SB-3-10	8/5/2016	9.5 - 10.0	Soil	<0.5	<10	<10	<0.005	<0.020	<0.005	<0.005	<0.005	<0.005
South of Former Gas Station Building	SB-3-32	8/5/2016	31.5 - 32.0	Soil	0.99	<10	<10	<0.005	<0.020	<0.005	<0.005	0.022	0.137
Area of Former Southern Canopy	SB-4-3	7/22/2016	2.5 - 3.0	Soil	<0.5	<10	<10	<0.005	NA	<0.005	<0.005	<0.005	<0.005
Area of Former Southern Canopy	SB-4-7.5	7/22/2016	7.0 - 7.5	Soil	<0.5	<10	<10	<0.005	NA	<0.005	<0.005	<0.005	<0.005
Area of Former Northern Canopy	SB-5-4.5	8/5/2016	4.0 - 4.5	Soil	<0.5	<10	<10	<0.005	<0.020	<0.005	<0.005	<0.005	<0.005
Area of Former Northern Canopy	SB-5-8	8/5/2016	7.5 - 8.0	Soil	<0.5	<10	<10	<0.005	<0.020	<0.005	<0.005	<0.005	<0.005
Area of Former Northern Canopy	SB-5-36	8/5/2016	35.5 - 36.0	Soil	<0.5	<10	<10	<0.005	<0.020	0.026	<0.005	<0.005	0.022
	ESL for G	Groundwater			100	100	100	1	5	0.12	40	13	20
North of Former Gas Station Building	SB-1-W	11/13/2015	NA	Ground- water	<50	120	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
South of Former Gas Station Building	SB-2-W	11/13/2015	NA	Ground- water	1,400	1,000	1,400	<0.5	<0.5	5.3	<0.5	6.1	19
South of Former Gas Station Building	SB-3-W	8/5/2016	NA	Ground- water	<50	<50	<50	<0.5	<1	<1	0.57	1.7	6.6
Area of Former Southern Canopy	SB-4-W	7/22/2016	NA	Ground- water	<50	<50	<50	<0.5	NA	<1	<0.5	<0.5	<0.5
Area of Former Northern Canopy	SB-5-W	8/5/2016	NA	Ground- water	230	<50	940	<0.5	<1	19	<0.5	2.8	40

Notes:

Units: Soil: mg/kg = milligrams per kilogram, Groundwater: µg/L = micrograms per liter

1. bgs = below ground surface

2. TPHg, TPHd, TPHss = Total petroleum hydrocarbons (TPH) quantified as gasoline, quantified as diesel, and TPH quantified as Stoddard solvent were analyzed using U.S. EPA Method 8015B/C.

3. Volatile organic compounds (VOCs) were analyzed using U.S. EPA Method 8260B.

ESL = Environmental Screening Levels as established by the California Environmental Protection Agency, San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) Tier 1 ESLs, February 2016.

SFBRWQCB Tier 1 Environmental Screening Levels (SFBRWQCB, 2016) Note 2 states: TPH motor oil is not soluble. TPH motor oil detections in water most likely are petroleum degradates or less likely NAPL. If the detections are degradates, add TPH motor oil and TPH diesel results and compare to TPH diesel criterion. The noted ESL was established for TPH-d.

MTBE = Methyl tert-butyl ether

NE = Not established

<1 = Not detected at stated concentration

Bold = Compound detected

Bold = Compound detected above ESL

Table 3. Well Survey Results Main Street Property 927 Main Street Pleasanton, California

Well ID No.	Address/Distance-Direction	Owner	Purpose	Status
3S-1E-16-N80	NA ² / within same section as Site	NA	NA	NA
3S-1E-21-C1	NA / 410 feet south	Private	Water-supply	Active
3S-1E-21-C3	NA / 410 feet south	Private	Water-supply	Active
3S-1E-16-B2	NA / 1,450 feet east	Private	Water-supply	Active
3S-1E-16-B3	NA / 1,450 feet east	Private	Water-supply	Active
3S-1E-16-L1	NA / 2,150 feet north	City of Pleasanton	Municipal water-supply	Active
3S-1E-16-L5	NA / 2,150 feet north	City of Pleasanton	Municipal water-supply	Active
3S-1E-16-L7	NA / 2,150 feet north	City of Pleasanton	Municipal water-supply	Active
3S-1E-21-C4	NA / 410 feet south	NA	Water-supply	NA
3S-1E-16-L2	NA / 2,150 feet north	City of Pleasanton	Municipal water-supply	NA
3S-1E-16-L80	NA ¹ / at least 1,000 feet north	NA	NA	NA
3S-1E-16-L81	NA ¹ / at least 1,000 feet north	NA	NA	NA
3S-1E-16-L82	NA ¹ / at least 1,000 feet north	NA	NA	NA
3S-1E-16-L	NA ¹ / at least 1,000 feet north	NA	NA	Test Well
3S-1E-16-M80	NA ² / at least 1,000 feet north	NA	NA	NA
3S-1E-16-M81	NA ² / at least 1,000 feet north	NA	NA	NA
3S-1E-17-J1	NA ¹ / at least 1,000 feet northwest	NA	NA	NA
3S-1E-16-P1	Versais Ave / 265 feet southeast	NA	Irrigation	Destroyed
3S-1E-16-P2	Versais Ave / 265 feet southeast	NA	Irrigation	Destroyed
3S-1E-17-J2	1155 Santa Rita Rd /	Amador High School	Water-supply	Destroyed
	1,100 feet northeast			
3S-1E-16-M2	NA / 1,400 feet north	NA	Water-supply	Destroyed
3S-1E-16-M3	NA / 1,400 feet north	NA	Water-supply	Destroyed
3S-1E-16-M1	NA / 1,600 feet north	NA	Water-supply	Destroyed
3S-1E-16-Q1	3963 Stanley Blvd / 1,690 feet east	Callahan	Water-supply	Destroyed
3S-1E-16-L11	NA / 1,875 feet north-northeast	NA	Water-supply	Destroyed
3S-1E-16-L10	NA / 1,925 feet north-northeast	NA	Water-supply	Destroyed

NA = Not Available

Groundwater monitoring and extraction wells installed during investigations and remedial actions at properties within the search area (2,000-foot radius of the Site) are not included in this table.

- 1. Information regarding well limited to total depth and geology.
- 2. Listed in 1912 Spring Valley Water Company report per California Department of Water Resources data.

Table 4. Proposed Sampling Summary
Main Street Property
927 Main Street
Pleasanton, California

Sample ID No.	Matrix	Sample Depth (feet)	Sample Location	Rationale	Analysis		
927-IA	Indoor Air	-	Inside on-site building	Evaluate indoor air for presence of VOCs	VOCs ²		
1-AA	Ambient	-	Near southeast corner of on-site building	Evaluate ambient air for presence of VOCs	VOCs ²		
SB-5A-SG	Soil Gas	5.0–5.5	Landscape area east side of on-site building	Evaluate presence of VOCs including naphthalene in soil gas since naphthalene reported in groundwater at SB-5 in 2016	VOCs ²		
SB-2A	GW	-	Near boring SB-2 to south of on-site building	Evaluate presence of petroleum hydrocarbons in groundwater at this location; petroleum hydrocarbons reported in groundwater sample collected from boring SB-2 in November 2015 but not in groundwater sample collected from boring SB-3 in August 2016	VOCs ³ TPHg, TPHd, TPHmo ³		
SB-6-2.5 ¹	Soil	2.0–2.5	Northeast of on-site	Evaluate northeast extent of	VOCs ³		
SB-6-7.5	Soil	7.0–7.5	building	petroleum hydrocarbons plume	TPHg, TPHd, TPHmo ³		
SB-6-W	GW	-		and secondary/residual sources for Direct Contact and Outdoor Air Criteria assessment			
SB-7-2.5	Soil	2.0–2.5	Southeast of on-site	Evaluate southeast extent of	VOCs ³		
SB-7-7.5	Soil	7.0–7.5	building	petroleum hydrocarbons plume	TPHg, TPHd, TPHmo ³		
SB-7-W	GW	-		and secondary/residual sources for Direct Contact and Outdoor Air Criteria assessment			
SB-8-2.5	Soil	2.0–2.5	Southwest of on-site	Evaluate southwest extent of	VOCs ³		
SB-8-7.5	Soil	7.0–7.5	building	petroleum hydrocarbons plume	TPHg, TPHd, TPHmo ³		
SB-8-W	GW	-		and secondary/residual sources for Direct Contact and Outdoor Air Criteria assessment			
SB-9-2.5	Soil	2.0-2.5	Northwest of on-site	Evaluate northwest extent of	VOCs ³		
SB-9-7.5	Soil	7.0–7.5	building; within footprint	petroleum hydrocarbons plume;	TPHg, TPHd, TPHmo ³		
SB-9-W	GW	-	of former building	evaluate secondary/ residual sources for Direct Contact and Outdoor Air Criteria assessment			
SB-10-2.5	Soil	2.0-2.5	South side of parking lot	Evaluate secondary/residual	VOCs ³		
SB-10-7.5	Soil	7.0–7.5	to south of on-site	sources for Direct Contact and	TPHg, TPHd, TPHmo ³		
SB-10-W	GW	-	building	Outdoor Air Criteria assessment and potential impacts to Site from potential off-site upgradient sources			

1. Soil samples will also be collected from intervals above the water table that exhibit staining, discoloration, and/or elevated photoionization detector (PID) readings, if any.

Soil gas and ambient air samples to be analyzed for volatile organic compounds (VOCs) by Method TO-15.
 At least one soil sample collected within the 0 to 5-foot depth interval and at least one soil sample collected within the 5-foot to 10-foot depth interval from borings SB-6 through SB-10 will be submitted for the following analysis: VOCs by U.S. EPA Method 8260 with only benzene, toluene, ethylbenzene, xylenes (collectively BTEX), methyl tert-butyl ether (MTBE), naphthalene, and Total Petroleum Hydrocarbons (TPH) quantified as gasoline (TPHg) reported; and TPH quantified as diesel (TPHd) and TPH quantified as motor oil (TPHmo) by U.S. EPA Method 8015. Soil samples with elevated PID readings documented and/or evidence of chemical staining observed will also be submitted for the same analysis as the other soil samples. Groundwater samples will be analyzed for VOCs by U.S. EPA Method 8260 with only BTEX, MTBE, naphthalene, and TPHg reported; and TPHmo by U.S. EPA Method 8260 with only BTEX, MTBE, naphthalene, and TPHg reported; and TPHmo by U.S. EPA Method 8260 with only BTEX, MTBE, naphthalene, and TPHg reported; and TPHmo by U.S. EPA Method 8260 with only BTEX, MTBE, naphthalene, and TPHg reported; and TPHmo by U.S. EPA Method 8015.

Figures



USGS Dublin and Livermore, California Quadrangle Topographic Maps, 2015

Legend — Site (boundaries approximation)	Scale feet (approximate) 0 2000 4000	North	
Car.	Site Location Man	PN: 01-2016-1300-001	
	Site Eocation Map	Date: April 14, 2017	
CD C	Soil and Groundwater Investigation Work Plan	EP: Lita Freeman	
Soil-water-vapor	927 Main Street, Pleasanton, Alameda County, California	Figure 1	







Appendix A Alameda County Environmental Health Letter, February 14, 2017

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY

REBECCA GEBHART, Interim Director

DEPARTMENT OF ENVIRONMENTAL HEALTH LOCAL OVERSIGHT PROGRAM (LOP) For Hazardous Materials Releases 1131 HARBOR BAY PARKWAY, SUITE 250 ALAMEDA, CA 94502 (510) 567-6700 FAX (510) 337-9335

February 14, 2017

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C & H Development Co 43 Panoramic Way Walnut Creek, CA 94566-8218

David B. Wheeler 927 Main Street Pleasanton, CA 94566-6072

C & H Development Co Bradley A. and Sandra L Hirst, Trustees 43 Panoramic Way Walnut Creek, CA 94595-1605 Paul C and Alice T Sun, Trustees PO Box 117941 Burlingame, CA 94011-7941 (Sent via email to dsun@dsunlaw.com)

Morey and Ethel Gross and Peggy Lane 915 Main Street Pleasanton, CA 94566-8218

Santa Rita Investment Company 915 Main Street Pleasanton, CA 94566-8218

Autogal, Inc. Agent: The Prentice-Hall Corporation System, Inc. 2711 Centerville Road Suite 400 Wilmington, DE 19808

Subject: Work Plan Request for Fuel Leak Case No. RO0003199 and GeoTracker Global ID T10000008158. Main Street Property, 927 Main Street, Pleasanton, CA 94566

Dear Responsible Parties:

Alameda County Department of Environmental Health (ACDEH) has reviewed the case file, including the October 10, 2016, report titled "Soil and Groundwater Investigation Report," (Report) submitted by Environmental Risk Assessors. The Report documents the following: the advancement of two soil borings at the site from which a total of five soil samples and two grab groundwater samples were collected; the advancement of one soil gas sampling point at the site; and the advancement of one soil boring at 915 Main Street, Pleasanton, the property that adjoins the subject site to the south and the west. The soil and groundwater samples were analyzed for the following: Total Petroleum Hydrocarbons as gasoline (TPH-g), diesel (TPH-d), and Stoddard Solvent (TPH-ss); benzene, toluene, ethylbenzene, and total xylenes (BTEX); methyl tert-butyl ether (MtBE); and naphthalene. The soil gas sample was analyzed for oxygen, methane, and naphthalene. The Report also presents in Appendix H the results of a geophysical survey that was performed using ground penetrating radar (GPR) on March 25, 2016, and discussed in a report titled. "Geophysical Survey," dated March 30, 2016, and submitted by CBRE, Inc. The results of the survey, in which the GPR achieved depths between 3.5 feet and 4 feet bgs, appear to indicate that underground storage tanks (USTs) are not present at the subject site, the property at 915 Main Street that adjoins the subject site to the south and the west, and the property that adjoins the subject site to north extending to the northern railroad tracks. The Report also includes a preliminary Site Conceptual Model (SCM) and a comparison of the site data to the criteria under the State Water Resources Control Board's Low-Threat Underground

Storage Tank Case Closure Policy (LTCP). The Report recommends additional groundwater sampling from the area south and southwest of the Site to evaluate the potential source(s) for TPH in groundwater beneath the Site, and additional soil gas sampling at boring SB-5 due to the detection of naphthalene in groundwater at a concentration of $19 \mu g/L$.

ACDEH has evaluated the data presented in the report. Further work is required to determine the extent of the contamination to help facilitate closure of site under the LTCP. We request the submittal of a site investigation Work Plan that addresses the technical comments discussed below.

TECHNICAL COMMENTS

1) LTCP General Criteria Compliance

- a. General Criteria f (Secondary Source). The Report states that the likelihood of the presence of significant petroleum hydrocarbon secondary source in soil appears low and that TPH in groundwater appears localized to the southeastern corner of the building that is onsite. However, based on ACDEH's review of the case file, secondary source as petroleum-impacted soil and groundwater has not been adequately delineated at the site. In addition, further investigation to identify secondary sources and residual contamination is appropriate due to the presence of the historic gas and oil facility at the site and the other gas and oil facility straddling both the site and the adjacent property at 915 Main Street, as indicated on the 1943 and 1953 Sanborn maps.
- b. General Criteria e (Site Conceptual Model). The Report references a water well survey that was performed in 2010 by the consultant for the former Mobile gasoline service station located approximately 200 feet northeast of the site. The survey used records from the California Department of Water Resources (DWR) and Alameda County Public Works Agency (ACPWA). ACDEH recommends that an updated well survey be performed in order to capture more potential recently installed water wells in the area of concern.

2) LTCP Media-Specific Criteria Compliance

- a. Groundwater. As stated in the Report, benzene and MtBE have not been detected in groundwater at the site, and it appears based on available data so far that there are not plumes of these constituents. However, the TPH-g plume boundary, which is discussed in the Report, has not been adequately defined at its northwest, southwest, east and southeast extent. As above, we recommend further groundwater investigation. The site cannot meet the media-specific criteria until secondary source areas have been defined and it has been verified to have been removed to the extent practicable. Also, as discussed above, we request an updated well survey to better determine whether or not the site meets the LTCP criteria for groundwater.
- b. Vapor Intrusion to Indoor Air. The Report recommends that an additional soil gas sample be collected at boring SB-5 to evaluate the potential for vapor intrusion due to naphthalene detection in groundwater at this boring. Because depth to water is deep at this site, ACDEH does not determine this to be necessary at this time. Because secondary source in soil and groundwater has not yet been adequately defined, we recommend instead, as discussed above, that further soil and groundwater investigation be performed to better define the extent of secondary source and determine the potential need for vapor sampling at these locations before performing additional soil gas sampling at this time.

c. Direct Contact and Outdoor Air Criteria for Soil. Because secondary source or residual sources have not been adequately defined, it cannot be determined at this time whether or not the site meets this criteria. As discussed above, we recommend further soil sampling which, in addition to defining secondary source, will also help to provide additional data to determine if the site meets the media-specific criteria for direct contact and outdoor air exposure to soil.

3) Other Comments

- a. Figures. ACDEH requests that the site map figures in the requested Work Plan and subsequent reports present a perpendicular overhead view of the site to enable more accurate interpretation of sampling locations in relation to the building footprints and site boundary. In addition, please include scales on all maps.
- b. Logs of Borings. ACDEH reviewed the logs for borings SB-2 and SB-3, which according to figures in the Report, are immediately adjacent to each other. We note a discrepancy between both logs in the geological material documented for approximately the upper 20 feet. In contrast to the boring log for SB-3, the log for SB-2 identifies the upper 20 feet as "fill". Please address the discrepancy. The additional advancement of boring(s) in this area may be necessary to provide clarification of the type of geological material. Additional boring(s) would also help to clarify the discrepancies between SB-2 and SB-3 in the concentrations of TPH found in groundwater. Given that soil was sampled shallowly at SB-2, ACDEH recommends, in addition to TPH-g. TPH-d, TPH-mo, BTEX, MtBE, and naphthalene, that soil samples be analyzed for volatile organic compounds (VOCs) using Method 8260.
- 4) GeoTracker Compliance. A review of the State Water Resources Control Board's (State Water Board) GeoTracker website indicates that required files, including electronic data files for laboratory analytical data, boring logs, and site maps for investigative work performed for this site have not been uploaded onto GeoTracker. Because this is a state requirement, ACDEH requests that all the above requested data be uploaded to GeoTracker by March 15, 2017.

Pursuant to California Code of Regulations, Title 23, Division 3, Chapter 16, Article 12, Sections 2729 and 2729.1, beginning September 1, 2001, all analytical data, including monitoring well samples, submitted in a report to a regulatory agency as part of the UST or LUST program, must be transmitted electronically to the State Water Board GeoTracker system via the internet. Also, beginning January 1, 2002, all permanent monitoring points utilized to collect groundwater samples (i.e. monitoring wells) and submitted in a report to a regulatory agency, must be surveyed (top of casing) to mean sea level and latitude and longitude to sub-meter accuracy using NAD 83. A California licensed surveyor may be required to perform this work. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs, including SCP programs. Additionally, pursuant to California Code of Regulations, Title 23, Division 3, Chapter 30, Articles 1 and 2, Sections 3893, 3894, and 3895, beginning July 1, 2005, the successful submittal of electronic information (i.e. report in PDF format) shall replace the requirement for the submittal of a paper copy. Please upload all required submittals to GeoTracker. Electronic reporting is described below on the attachments.

SUBMITTAL ACKNOWLEDGEMENT STATEMENT

Please note that ACDEH has updated its Attachment 1 with regard to report submittals to ACDEH. ACDEH will now be requiring a Submittal Acknowledgement Statement, replacing the Perjury Statement, as a cover

letter that is to be signed by the Responsible Party (RP). The language for the Submittal Acknowledgement Statement is as follows:

"I have read and acknowledge the content, recommendations, and and/or conclusions contained in the attached document or report submitted on my behalf to ACDEH's FTP server and the State Water Resource Control Board's GeoTracker website."

Please include this in your submittals to ACDEH.

TECHNICAL REPORT REQUEST

Please upload the work plan to the ACDEH ftp site (Attention: Anne Jurek), and to the State Water Resources Control Board's GeoTracker website according to the following schedule and file-naming convention:

- March 15, 2017 (30 days) GeoTracker Compliance
- April 14, 2017 (60 days) Site Investigation Work Plan File to be named: WP_R_yyyy-mm-dd RO3199

This report is being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

If you have any questions, please call me at (510) 567-6721 or send me an electronic mail message at <u>anne.jurek@acgov.org</u>. Online case files are available for review at the following website: http://www.acgov.org/aceh/index.htm

Sincerely,

and a solution of the solution

Anne Jurek, MS, California GIT 731 Professional Technical Specialist II

Attachment: Responsible Party(ies) Legal Requirements/Obligations Enclosure: ACDEH Electronic Report Upload (ftp) Instructions

cc: Lita Freeman, Environmental Risk Assessors, 1420 East Roseville Parkway, Roseville, CA 95661 (Sent via E-mail to: litafreeman@gmail.com)

Anne Jurek, ACDEH (Sent via E-mail to: anne.jurek@acgov.org)

Dilan Roe, ACDEH (Sent via E-mail to: dilan.roe@acgov.org)

Paresh Khatri, ACDEH (Sent via E-mail to: paresh.khatri@acgov.org)

GeoTracker, eFile

Appendix B Figures and Boring Logs from Environmental Risk Assessor's Limited Phase II ESA Report (November 27, 2015) and Soil and Groundwater Investigation Report (October 10, 2016)

Figures and Boring Logs From ERA 2015 Limited Environmental Site Assessment Report



LIMITED PHASE II	ENVIRONMENTAL SITE	ASSESSMENT
		/ COLOCIMENT

927 Main Street, Pleasanton, California

Figure 2
PRC	JEC	T:	927	′ Ma	in St	treet, Pleasanton, California	Log of I	Boriı	ng	SB- P/	- 1 AGE 1	OF 2	
Borin	ig loca	tion:	S	ee Fi	gure	2		Logge	ed by:				
Date	starte	d: 1	11/13	/15		Date finished: 11/13/15] .					
Drillir	ng me	hod:	Di	rect F	Push				ta Freel	man			
Ham	mer w	eight	/drop	: NA	۱	Hammer type: NA			LABOF	RATOR	Y TEST	DATA	
Sam	oler: I	erna	indo-	Casca	ade/L	ita Freeman-ERA		_		jth			`
-		SAMF	PLES	-	ЭGY	MATERIAL DESCRIPTION		be of ength est	fining ssure Sq Ft	Streng Sq Ft	nes %	tural sture ent, %	lensit) Cu Ft
EPTH feet)	PID (ppmv)	ample	ows/ 6	SPT -Value	тног		,2	L S L	Con Pre: Lbs/	shear Lbs/	Ē	Na Moi Cont	Dry D Lbs/
	,	S	B	Ż	5	Ground Surface Elevation:fee	t			0)			
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2 —							-	-					
3 —							_	_					
4 —							_						
5 —	184						_						
6	104						_						
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/ -							_						
8 —							-						
9 —							-	-					
10 —	225						-	-					
11 —						stiff, dry	e plasticity,	-					
12 —							-	-					
13 —							-	_					
14 —							-						
15 —	269						-						
16 -	207						_						
10													
17 —							-						
18 —							-						
19 —							_	1					
20 —	241						_	-					
21 —							-	-					
22 —							-	-					
23 —							-	-					
24 —							-	-					
25 —							-						
26 —							-						
27													
21 -						 - color change to Light Brown (7.5 YR 6/4) at 28 f	feet bgs						
28 —							<u> </u>	1					
29 —							-	1					
30 —	Boring t	erminat	ed at a	l depth o	f <u>40</u> f	l feet below ground surface.				Envire	montel	Dick Art	
	Boring I	backfille	ed with	cemer	t grout	t.			Ra	CIIVIFOF	mental	RISK ASS	essors
	Ground	water e	encoun	iered a	ιa dep	un on <u>ww</u> eet auring aniling.		Project 01-20	No.: 15-500-0	007	Figure:	C-1	

PRC	DJEC	T:	927	′ Ma	in S	treet, Pleasanton, California	Log of E	Borir	ng	SB- P/	-1 AGE 2	OF 2	
Borin	ig loca	tion:	S	ee Fi	gure	2		Logge	d by:				
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Ham	mer w	eight/	/drop): NA	۱	Hammer type: NA			LABOF	RATOR	Y TESI	DATA	
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I_			<u>ت</u>	ē	госу	MATERIAL DESCRIPTION		/pe of rength Test	nfining essure s/Sq F	r Stren s/Sq F	ines %	atural oisture itent, ⁶	Densi s/Cu F
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34—						- very moist at 34 feet bgs	_						
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	Boring t	ackfille	ed with	cemer	t grout				Ra	Environ	imental	Risk Ass	essors
	Ground	water e	ncoun	tered a	t a dep	th of <u>NA</u> ,feet during drilling.		Project 01-20	No.: 15-500-0	07	Figure:	C-1	

PRC	DJEC	T:	927	7 Ma	n St	treet, Pleasanton, California	Log of	Borir	ng	SB- P/	-2 AGE 1	OF 2	
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Drillir	ng met	hod:	Di	irect F	ush	· ·		- Li	ta Freei	man			
Ham	mer w	eight/	/drop): NA		Hammer type: NA			LABOF	RATOR	Y TESI		
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			ш	2		Asphalt (6 inches) / Baserock (4 inches)	ι						
1 —						FILL MATERIAL, Silt (ML), Brown (7.5 YR 4/6), s	- some	-					
2 —						medium-grained to coarse-grained gravel with in	creasing -	_					
3 —						gravel with depth low plasticity stiff dry	-						
4						graver war depar, few plastery, san, dry							
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5 —	264						-	-					
6 —	-						-	-					
7 —	-					- fine-grained sand with medium-grained to coars	se-grained -	_					
8 —						gravel at 7 feet bgs	-						
0													
9	209												
10 —						FILL MATERIAL, Sandy Gravel (GP), Brown (7.5	5 YR						
11 —						4/6), coarse-grained gravel, fine-grained to coars		-					
12 —	1					grained sand, dry	-	-					
13 —	-						-	_					
14 —							_						
45	2/7												
15 —	26/						-						
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17 —							-	-					
18 —							-	-					
19 —	-						-	_					
20 —	298												
20						Silty Clay (CL/CH), Brown (7.5 YR 4/6), moderate	e plasticity,						
21 —	1					onny dry	-	1					
22 —	1						-	-					
23 —	-						-	-					
24 —	-						-	-					
25 —							-	_					
26													
20 -							-						
27 —	1						-	1					
28 —	1					-moist at 28 feet bgs	-	-					
29 —	276						-	-					
30 —	576												
	Boring to Borina b	erminate backfille	ed at a ed with	depth of	* <u>36</u> f t grout	feet below ground surface. t.			Ő,	Enviror	nmental	Risk Ass	essors
	Ground	water e	ncoun	tered a	a dep	oth of <u>NA</u> ,feet during drilling.		Project	No ·		Figure		
								01-20	15-500-0	007	i iguie.	C-2	

PRC	JEC.	T:	927	′ Ma	in S	treet, Pleasanton, California	Log of E	Borir	ng	SB- P/	•2 •GE 2	OF 2	
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Drillir	ng met	hod:	Di	rect F	Push				ta Freer	nan			
Ham	mer w	eight/	/drop	: NA	۱	Hammer type: NA			LABOF	RATOR	Y TEST	DATA	
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31—						-color change to green with petroleum hydrocarl odor from 30 feet bgs to 34 feet bgs	bon						
32—							_						
33—							_						
34—						-very moist at 34 feet bgs	_						
35—							_						
36—						Bottom of Boring = 36 feet							
37—						Dottom of Doring - So reet	_						
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	Boring to	ackfille	ed at a	cemer	t grout	ieer beiow ground sunace. t.			Ra	Environ	imental	Risk Ass	essors
	Ground	water e	ncoun	tered a	t a dep	th of <u>NA</u> ,feet during drilling.		Project 01-20	No.: 15-500-0	07	Figure:	C-2	

Figures and Boring Logs from ERA 2016 Soil and Water Investigation Report





SOIL AND GROUNDWATER INVESTIGATION

Figure 2

927 Main Street, Pleasanton, California

















Well Location Source: ETIC, 2010, Detailed Well Survey Report



PRC	JEC	T:	927	7 Mai	in St	treet, Pleasanton, California	Log of E	Borir	ng	SB- P/	- 3 AGE 1	OF 2	
Borin	ig loca	ation:	S	ee Fi	gure	2		Logge	d by:				
Date	starte	d: e	3/5/16	3		Date finished: 8/5/16]					
Drillin	ng me	thod:	Di	rect F	Push			LI	ta Freer	man			
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Sam	pler:	Arturc	-Cas	cade	/Lita I	Freeman-ERA				<u>ح</u>			
	:	SAMF	PLES		ξ			s of st	ning sure q Ft	trengt q Ft	S	iral ture ht, %	ensity u Ft
DEPTH (feet)	PID (ppmv)	Sample	slows/ 6"	SPT V-Value ¹	ітного	Ground Surface Elevation:	t ²	Type Stren Tes	Confi Press Lbs/S	Shear St Lbs/S	Fine %	Natu Moist Conter	Dry De Lbs/C
			ш	2		Asphalt (6 inches) / Baserock (4 inches)	71						
1 —					GW	Sandy Gravel (GW), Brown (7.5 YR 4/6), fine-gra	ained to	1					
2 —	-				•	to coarse-grained gravel fine-grained to coarse-	arained —	-					
3 —						sand sub-angular to sub-rounded gravel dry							
4		\bowtie											
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Ő													
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14 —													
14		\bowtie			CL/	Silty Clay (CL/CH), Brown (7.5 YR 4/6), moderate	e plasticity,						
15 —							_						
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27 —							_						
 28 —							_						
29 —						-moist at 28 feet bgs	_						
23	2.5												
30 —	Boring t	erminate	ed at a	depth of	f <u>40</u> f	eet below ground surface. Boring		1	8	Environ	mental	Risk Ass	essors
	backfill	ed with	cemer	nt grout.	ta dar	th of ³⁸ feet during drilling		2	Ra				
	Ground	water e	oun	ioreu d	.auep	ar or —— noor during driffig.		Project 01-20	No.: 16-1300-	001	Figure:	C-3	

PRC	JEC	T:	927	7 Ma	in S	treet, Pleasanton, California	Log of E	Borir	ng	SB- P/	• 3 •GE 2	OF 2	
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Drillir	ng me	thod:	Di	irect F	Push					11411			
Ham	mer w	eight	/drop	D: NA	\	Hammer type: NA			LABOR	RATOR	Y TEST	DATA	
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- -		SAME	LES 5	-	OGY	MATERIAL DESCRIPTION		pe of ength est	ıfining ssure /Sq Ft	Streng /Sq Ft	ines %	itural isture tent, %	Jensit /Cu Ft
DEPTI (feet)	PID (ppmv)	Sample	Blows/	SPT N-Valu	ГІТНОГ	Ground Surface Elevation:fee	ť	St L	Cor Pre Lbs	Shear Lbs	ш	Con	Dry I Lbs
31—						-color change to green with petroleum hydrocarb	on odor at —						
32—	1.8	\leq				31 feet bgs	_						
33—						-color change to brown (7.5 YR 4/6) at 33 feet bg	js _						
34— 25	0.0					-color change to green with petroleum hydrocarb from 34 feet bgs, very moist at 34 feet bgs	on odor —						
35— 36—	0.0	\mathbb{X}				-color change to brown (7.5 YR 4/6) at 36 feet bg	js _						
37—	0.0						_						
38—					\sim	-wet at 38 feet bgs	_						
39—							_						
40 —													
41 —						Bottom of Boring = 40 feet							
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60 —	Boring t	erminat	ed at a	depth of	f 40 f	eet below around surface.			and a second				
	Boring	backfille	ed with	i cemer	it grout			2	Ra	Environ	imental	Kisk Ass	essors
	Ground	water e	encoun	illered a	ιa dep	un oi <u>teet auring aniling</u> .		Project 01-20	No.: 16-1300-	-001	Figure:	C-3	

PRC	JEC	T:	927	′ Mai	in St	treet, Pleasanton, California	Log of I	Borir	ng	SB-	-4 AGF 1	OF 2	
Borin	ig loca	ition:	S	ee Fi	gure	2		Logge	d by:	. /		<u> </u>	
Date	starte	d: 7	7/22/2	16		Date finished: 7/22/16]	. –				
Drillir	ng me	thod:	Di	irect F	Push] Li	ta Freei	man			
Ham	mer w	eight	/drop): NA	١	Hammer type: NA			LABOF	RATOR	Y TESI	DATA	
Sam	oler:	Ricky	-Cas	cade/	Lita F	reeman-ERA				٩			
	:	SAMF	PLES		GY			e of gth st	ning sure q Ft	trengt q Ft	S S	ture nt, %	ensity tu Ft
EPTH (feet)	PID (ppmv)	Sample	lows/ 6"	SPT J-Value ¹	ітного	Ground Surface Elevation:	-t ²	Strer	Confi Prest Lbs/S	Shear S Lbs/S	Ein Ein	Natu Moisi Contei	Dry De Lbs/C
<u> </u>			8	2		Asphalt (6 inches) / Baserock (4 inches)	51			-			
1 —					GW	Sandy Gravel (GW). Brown (7.5 YR 4/6), fine-gr	ained to						
2 —						coarse-grained gravel fine-grained to coarse-gr	ained –	-					
3 —	0.0	\bowtie				sand sub-angular to sub-rounded gravel dry		_					
4	0.0												
4		\bowtie					_						
5 —	0.0						-	-					
6 —							_	-					
7 —	0.0	\bowtie					-	-					
8 —		\boxtimes			<u> </u>	Silty Clay (CL/CLI), Dark Daddiah Brown (2.5.)(2.2.5/4)	_					
9 —					CL/ CH	moderate plasticity, stiff, dry	< 2.5/4), 	_					
10		\bowtie											
10 -													
11 —							_	1					
12 —	0.0						_	-					
13 —							_	-					
14 —							_	_					
15 —		\boxtimes					_						
10	0.0												
10	0.0						_						
17 —							-	-					
18 —							-	-					
19 —	0.0						_	-					
20 —	0.0	\boxtimes					_	-					
21 —							_	_					
22 -							_						
~~~							_						
23 —							_	1					
24 —							-	1					
25 —	0.0	$\bowtie$					_	-					
26 —							_	-					
27 —							_	-					
28 -							_						
20						-moist at 28 feet bgs	_						
29 —	1						_	1					
30 —	Borina t	erminate	ed at a	l depth of	f <u>40</u> f	l ieet below ground surface. Boring				Envire	montel	Dick Art	
	backfille	ed with	cemer	nt grout.		38			Ra	CIIVIFOF	mental	RISK ASS	essors
	Ground	water e	encoun	tered at	ta dep	th of — feet during drilling.		Project	No.:	001	Figure:	C-4	
								01-20	16-1300	-001		U -T	

PRO	DJEC	T:	927	7 Ma	in S	treet, Pleasanton, California	Log of E	Borir	ng	SB- P/	- <b>4</b> AGE 2	OF 2	
Borir	ng loca	tion:	S	ee Fi	gure	2		Logge	d by:				
Date	starte	d: 7	7/22/	16		Date finished: 7/22/16		Li	ta Free	man			
Drilli	ng me	hod:	Di	rect F	Push					nan			
Ham	mer w	eight	/drop	): NA	۱.	Hammer type: NA			LABOF	RATOR	Y TEST	DATA	
Sam	pler: I		-Cas	cade/	Lita F	reeman-ERA				gth t		9	<u>بر ج</u>
PTH eet)	PID	mple	vs/ 6"	sPT /alue ¹	НОГОСУ	MATERIAL DESCRIPTION		Type of Strength Test	Confining Pressure Lbs/Sq F	iear Stren Lbs/Sq F	Fines %	Natural Moisture Content, 5	Dry Densi Lbs/Cu F
DE (fé	(ppmv)	Sa	Blo	°ź	5	Ground Surface Elevation: fee	et ²			у У			
31—							_						
32-						1							
22													
34—													
35—	1												
36—	-												
37—	-												
38—						Sandy Gravel (GW). Dark Reddish Brown (2.5 Y	R 2.5/4).						
39—	-					fine-grained to to coarse-grained gravel, fine-gra	ined to						
40 —						coarse-grained sand, rounded gravel, wet at 38 i	eet bgs						
41 —						Bottom of Boring = 40 feet							
12 -													
42													
43 —													
44 —							_						
45 —	1												
46 —	-						_						
47 —	1												
48 —	-												
49 —	-						_						
50 —	-												
51 —							_						
52 —													
52													
							_						
54 —	1												
55 —	1						_						
56 —	1						_						
57 —	-						_						
58 —	-						_						
59 —	-						_						
60 —													
	Boring t Boring I	erminate backfille	ed at a ed with	depth o	f <u>40</u> f nt grout	eet below ground surface.			J.	Environ	imental	Risk Ass	essors
	Ground	water e	encoun	tered a	t a dep	th of <u>38</u> feet during drilling.		Proiect I	No.:		Figure [.]	<u> </u>	
								01-20	16-1300-	-001	. igure.	C-4	

PRC	JEC	T:	927	′ Ma	in St	treet, Pleasanton, California	Log of E	Borir	ng	SB- P/	- <b>5</b> -GE 1	OF 2	
Borin	ig loca	tion:	S	ee Fi	gure	2		Logge	d by:				
Date	starte	d: 8	8/5/16	3		Date finished: 8/5/16		:	to Eroo	mon			
Drillir	ng met	hod:	Di	rect F	Push				la ricei	IIdII			
Ham	mer w	eight/	/drop	): NA	۱	Hammer type: NA			LABOF	RATOR	Y TESI	DATA	
Sam	pler: ,	Arturo	-Cas	scade	/Lita	Freeman-ERA				gth		<u>``</u>	>
₽₽	PID	e B	2ES ق	T	ргосу	MATERIAL DESCRIPTION		Type of strength Test	onfining ressure os/Sq Ft	ar Stren os/Sq Ft	Fines %	Vatural 1oisture intent, 9	y Densit os/Cu Fl
DEP' (fee	(ppmv)	Sam	Blows	SP N-Va	ГІТНО	Ground Surface Elevation:fee	et ²		0	She		- 2 8	23
						Landscaping top soil							
1 —					CL/	Silty Clay (CL/CH), Brown (7.5 YR 4/6), moderat	e plasticity,						
2 —					CIT	Sun, dry	_						
3 —							_						
4 —	-	$\bowtie$					_						
5 —	0.0						_						
6 —	-						_						
7 —	-						_						
8 —	0.0	$\ge$					_						
9 —	-						_						
10 —	-	$\bowtie$					_						
11 —	-						_						
12 —	0.0						_						
13 —							_						
14 —							_						
15 —		$\bowtie$					_						
16 —	0.0						_						
17 —	0.0						_						
18 —							_						
10							_						
20 -	0.0	$\bowtie$					_						
20													
21													
22 -							_						
23 -							_						
24 —	0.0						—						
25 —							_						
26 —							_						
27 —							_						
28 —	0.0												
29 —						-moist at 29 feet bgs	_						
30 —	Boring t	erminate	ed at a	depth o	f 44 f	ieet below ground surface.			Res.				
	Boring I	ackfille	ed with	cemer	t grout				Ra	Enviror	imental	Risk Ass	essors
	Ground	water e	ncoun	tered a	t a dep	th of $\underline{37}$ feet during drilling.		Project 01-20	No.: 16-1300-	-001	Figure:	C-5	

PRC	JEC	T:	927	7 Ma	in S	treet, Pleasanton, California	Log of	Borir	ng	SB- P/	- <b>5</b> AGE 2	OF 2	
Borir	ig loca	tion:	S	ee Fi	gure	2		Logge	d by:				
Date	starte	d: 8	/5/16	3		Date finished: 8/5/16		]	• • • • •				
Drillir	ng me	hod:	Di	irect F	Push			LI	ta Freer	man			
Ham	mer w	eight/	drop	: NA	۱	Hammer type: NA			LABOR	RATOR	Y TEST	DATA	
Sam	pler: ,	Arturo	-Cas	cade	/Lita	Freeman-ERA				£			
		SAMP	LES	-	βGY	MATERIAL DESCRIPTION		e of ngth st	ining sure Sq Ft	streng Sq Ft	es v	ural ture nt, %	ensity Du Ft
DEPTH (feet)	PID (ppmv)	Sample	3 lows/ 6	SPT N-Value	ТНОГО	Ground Surface Elevation: fee	t ²	Typ Stre T€	Conf Pres Lbs/s	Shear S Lbs/	Fir 9	Nat Mois Conte	Dry D Lbs/(
						-color change to green with petroleum hydrocarb	oon odor at –	-					
32—	-	$\bowtie$				31 feet bgs -color change to brown (7.5 YR 4/6) at 32 feet bg	gs –	-					
33—	-						-	_					
34—						-color change to green with petroleum hydrocarb 34 feet bgs, very moist at 35 feet bgs	on odor at –	-					
35— 26	1.0	$\bowtie$				-some fine-grained sand at 35 feet bgs to 35.5 fe	et bgs -	1					
30- 37-	1.2				$\bigtriangledown$	-sand and gravel at 37 feet bgs to 37.5 feet bgs,	wet at 37						
20						feet bgs	_						
30	27	$\bowtie$				color change to brown $(7 \in VD, 4/6)$ at 20 fact be							
39-	83.9						JS –						
40 —							-						
41 —							-						
42 -					GW	Sandy Gravel (GW), Brown (7.5 YR 4/6), fine-gra	ined to						
43 —				Γ	0,,,	sand, sub-angular to sub-rounded gravel, saturate	ined – ied						
44 —						Bottom of Boring = 44 feet							
43 — 46 —							_						
40 -							-	_					
48 —							_	_					
49 —							-	_					
50 —							-	-					
51 —	-						-	-					
52 —							-	-					
53 —							-						
54 —							-						
55 —							-	-					
56 —							-	-					
57 —							-						
58 —							-	_					
59 —							-						
60 —	Boring t	erminate	ed at a	l depth of	f <u>44</u> f	l feet below ground			<b>S</b>	Environ	imental	Risk Ass	essors
	surface. Ground	Boring water e	backfi ncoun	lled with tered at	n ceme t a dep	ent grout. eth of <u>37 f</u> eet during drilling.		1	na				
						-		Project 01-20	No.: 16-1300-	001	Figure:	C-5	

Appendix C ACDEH Closure Summary, (Former) Unocal Station #0543, 992 Main Street, Pleasanton, California September 12, 1997



							BO	RING	LOG	
Project No. KEI-P92-020	)4				T	Bori Casi	ing Dia	meter	9" N/A	Logged By JGG W.W. CEG 1633
Project Nam 992 Main S	e Unor treet, Pl	cal S/S Icasan	S #05 ton	43		Wel	ll Cove	r Elevat	ion	Date Drilled 11/30/92
Boring No. EB5						Dril Met	lling thod	Holle	ow-stem er	Drilling Company Woodward Drilling
Penetration blows/6"	G. W. level	De (fe Sa	pth et) mple	s	Str gra U	ati- aphy SCS				Description
			0	-				Silty g diamet	ravel with sand	d base, angular gravel to 1-1/4 inches in
9/12/18			5 -					Silt, st Silt, tr	tiff, moist, brow race sand, very	wn (10YR 5/3), trace rootlets. y stiff, slightly moist, pale brown (10YR 6/3).
10/16/25	5		ML			Sandy diamet	silt, estimated ter, hard, slight	at 15% sand and trace gravel to 1/2 inch in the the type of ty		
10/18/24	18/24			TITLE CONTRACT		Silt, es brown Sandy fine-g	stimated at 109 (10YR 5/3). gravel with si rained sand, 15	% sand and trace clay, very stiff, very moist. It, estimated at 30-35% predominantly 5% silt, and subangular to subrounded gravel to		
					GW-	GM		6/3)	inches in diam	leter, dense, sligntly moist, pale brown (10YR
8/11/14	20		M			Silt, e moist,	stimated at 10 ⁴ brown (10YR	% fine-grained sand and trace clay, very stiff.		
0/14/14					G	V		Sandy subrous slight	y gravel, estima unded gravel to ly moist, pale b	ated at 35% sand, 10% silt, and subangular to o 1-1/4 inches in diameter, medium dense. brown (10YR 6/3).

					BC	DRING LOG	
Project No. KEI-P92-0204				E	oring Dia Casing Di	ameter 9" ameter N/A	Logged By JGG W.W. CEG 1633
Project Name 992 Main Str	Unoc cct, Pla	al S/S #0: casanton	543		Well Cov	er Elevation	Date Drilled 11/30/92
Boring No. EB5	-				Drilling Method	Hollow-stem Auger	Drilling Company Woodward Drilling
Penetration blows/6"	G. W. evel	Depth (feet) Sampl	es	Str gra US	ati- phy SCS		Description
7/10/15 4/4/7 3/4/8 6/8/9		25 30 30 35 40		GW ML ML-SM		Sandy gravel, estimate subrounded gravel to it slightly moist, pale brows Silt, estimated at 10% moist, brown (10YR 5 mottling. Silt, estimated at 10% elastic, pale brown (10 Sandy silt, estimated at diameter, stiff, very m Sandy silt, estimated at inch in diameter, very 5/3). Silt, very stiff, very m brown (10YR 5/4) w mottling.	ed at 35% sand, 10% silt, and subangular to 1-1/4 inches in diameter, medium dense, own (10YR 6/3). fine-grained sand and 5-10% clay, very stiff, 5/3), trace light brownish gray (2.5Y 6/2) fine-grained sand and 5% clay, stiff, slightly 0YR 6/3). at 15-20% sand and trace gravel to 3/8 inch in toist, brown (10YR 6/3). at 40% fine-grained sand and trace gravel to 3/8 v stiff, very moist to saturated, brown (10YR moist to saturated, slightly elastic, yellowish vith slightly light brownish gray (2.5Y 6/2) TOTAL DEPTH 41'

					BC	DRING LOG				
Project No. KEI-P92-020	14				Boring Di Casing Di	ameter 9" iameter N/A	Logged By JGG W.W. <i>CEG</i> 1633			
Project Nam 992 Main S	roject Name Unocal S/S #0543 992 Main Street, Pleasanton				Well Cov	er Elevation	Date Drilled 12/1/92			
Boring No. EB6				Drilling Method	Hollow-stem Auger	Drilling Company Woodward Drilling				
Penetration G. W. Depth Sector (feet) for the sector of th				St gr U	rati- aphy SCS		Description			
						Asphalt pavement over sa diameter (fill).	and and gravel, gravel to 3 inches in			
3/5/6			5	ML		Silt, estimated at 5-15% stiff, moist, brown (10Y)	sand and trace gravel to 1 inch in diameter, R 5/3).			
5/6/6			10			Silt, estimated at 10% san stiff, moist, brown (10YR	d and 5-10% gravel to 1 inch in diameter. .4/3), trace rootlets.			
7/10/12			15 -	sw		Silt, estimated at 10% san (10YR 4/3). Gravelly sand, estimated a trace silt, medium dense, a gap-graded.	d and 5% gravel, very stiff, moist, brown at 15% gravel to 1 inch in diameter and moist; pale brown (10YR 6/3), sand is			
6/8/11			20	MIL		Silt, estimated at 5-10% fi (10YR 5/3), trace pores.	ine-grained sand, very stiff, moist, brown			



					BO	RING LOG				
Project No. KEI-P92-020	)4		Y	Bo	ring Dia sing Dia	ameter 9" ameter N/A	Logged By JGG W.W. CEG 1633			
Project Name Unocal S/S #0543 992 Main Street, Pleasanton				w	ell Cove	r Elevation	Date Drilled 12/2/92			
Boring No. EB7				Dr	rilling ethod	Hollow-stem Auger	Drilling Company Woodward Drilling			
Penetration blows/6"G. W. levelDepth (feet) Samples			itrati- raph USCS	y	Description					
						Sandy gravel with silt (fi	ill).			
			M	L		Silt, trace fine-grained s rootlets.	and, stiff, moist, brown (10YR 5/3), trace			
7/9/11						Sandy gravel, estimated subrounded to 1/2 inch i brownish gray (10YR 6/	at 40-45% well graded sand, gravel is n diameter, medium dense, moist, light 2).			
7/22/35			G	P		Sandy gravel, estimated light brownish gray (10% gravel to 2-1/2 inches in inch in diameter.	at 40% sand and 5% silt, very dense, moist. (R 6/2), sand is well graded, gap graded diameter, gravel is predominantly under 1			
6/13/26		- 15 -	GP	GM		Sandy gravel with silt, estimated at 35-40% sand and 10-209 dense, moist, light brownish gray (10YR 6/2), subrounded g 3/4 inch in diameter.				
7/10/14		20 -		 L		Silt, estimated at 10% fi moist, brown (10YR 5/3	ne-grained sand and trace clay, very stiff. ), silt is slightly elastic.			





Page 1 of 3

			•	BC	RING LOG	
Project No. KEI-P92-020	)4			Boring Dia Casing Dia	ameter 9" ameter N/A	Logged By JGG W.W. CEG 1633
Project Name Unocal S/S #0543 992 Main Street, Pleasanton				Well Cove	er Elevation	Date Drilled 11/30/92
Boring No. EB8				Drilling Method	Hollow-stem Auger	Drilling Company Woodward Drilling
Penetration blows/6" G. W. Depth level (feet) Samples				itrati- graphy USCS	1	Description
5/7/14 5/8/10 5/6/8			ML		Silt, estimated at 10-15% moist, brown (10YR 5/3) staining in pores. Silt, estimated at 10-15% gravel to 3/8 inch in diam with slight grayish brown Three inch lense of silty a 40% silt, sand is fine-gra sand and 5% gravel to 3/4 Silt, estimated at 10-15% gravel to 3/8 inch in diam trace pores. Silt, trace clay, very stiff, 5/3) with slight light brow	fine-grained sand and trace clay, very stiff, with slight grayish brown (2.5Y 5/2) fine-grained sand, 5% clay, and trace eter, very stiff, moist, brown (10YR 5/3), (2.5Y 5/2). sand encountered at 30.5 feet, estimated at ined with an estimated 5% coarse-grained 8 inch in diameter. very fine to fine-grained sand and trace eter, stiff, very moist, brown (10YR 5/3), very moist, slightly elastic, brown (10YR whish gray (2.5Y 6/2) mottling.

Page 2 of 3

				BC	DRING LOG	
Project No. KEI-P92-0204 Project Name Unocal S/S #0543 992 Main Street, Pleasanton				Boring Dia Casing Dia	ameter 9" ameter N/A	Logged By JGG W.W. (EG 1633
				Well Cove	r Elevation	Date Drilled 11/30/92
Boring No. EB8				Drilling Method	Hollow-stem Auger	Drilling Company Woodward Drilling
Penetration blows/6"	G. W. level	Depth (feet) Samples	Si gi t	trati- raphy JSCS		Description
4/8/9	= 11:43	45	MI		Clayey silt, estimated a elastic, pale brown (10) mottling.	tt 15% clay, very stiff, moist to very moist. YR 6/3) with light brownish gray (2.5Y 6/2)
5/7/12			SM		Sandy silt, estimated at stiff, saturated, pale bro 6/2) mottling.	30% fine-grained sand and trace clay, very own (10YR 6/3) with brownish gray (2.5Y

					BORI	NG LOG			
Project No. KEI-P92-0204 Project Name Unocal S/S #0543 992 Main Street, Pleasanton				Borin	ng Diame	ter 9" eter N/A	Logged By JGG W.W. CELL1633		
				Well	Cover E	levation	Date Drilled 12/1/92		
Boring No. EB9				Drilli Meth	ing Iod	Hollow-stem Auger	Drilling Company Woodward Drilling Co.		
Penetration blows/6" G. W. Depth level (feet) Samples			;	Strat graph USC	i- hy :S	Description			
			-			Asphalt pavement or	ver sand and gravel base.		
3/4/5				ML		Silt, estimated at 5-1 trace rootlets.	10% sand, stiff, moist, brown (10YR 5/3)		
3/7/9		10 -				Silt, estimated at 5-1 diameter, stiff, mois	10% sand and 5% gravel to 1/2 inch in t, brown (10YR 5/3), trace root pores.		
				GW		Sandy gravel, estima dense, slightly mois subrounded gravel to	ated at 30-40% well graded sand, medium t, light brownish gray (10YR 6/2), o 1-1/4 inches in diameter.		
6/13/22		15		GW-SW		Sandy gravel/gravely (10YR 6/2), sand is w in diameter.	sand, dense, moist, light brownish gray. vell graded, subrounded gravel to 1/2 inch		
3/4/6		20		ML		Silt, estimated at 10% moist, slightly elastic	6 fine-grained sand and 5% clay, stiff, , brown (10YR 5/3), trace pores.		

**BORING LOG** Project No. **Boring Diameter** 9" Logged By JGG KEI-P92-0204 W.W. CEG 1633 **Casing Diameter** N/A Well Cover Elevation Project Name Unocal S/S #0543 **Date Drilled** 992 Main Street, Pleasanton 12/1/92 Boring No. Drilling **Drilling Company** Hollow-stem Method EB9 Auger Woodward Drilling Co. Penetration G. W. Depth Strati-Description blows/6" level (feet) graphy Samples USCS Silt, estimated at 5-10% fine-grained sand and trace gravel to 25 4/6/9 3/8 inch in diameter, stiff, very moist, pale brown (10YR 6/3), trace root pores. ML Silt, estimated at 5-10% clay and 5% sand, stiff, moist to very 30 moist, brown (10YR 5/3), trace root pores. 5/7/8 Silt, estimated at 10% sand, trace clay, and trace gravel to 3/8 4/5/7 35 inch in diameter, stiff, very moist, slightly elastic, brown (10YR 5/3), trace organic matter (decayed wood, black). Sandy silt, estimated at 20-25% fine-grained sand, trace clay, ML-SM and trace gravel ot 3/8 inch in diameter, stiff, very moist to 3/3/6 saturated, pale brown (10YR 6/3), silt is slightly elastic. TOTAL DEPTH: 39' 40 Page 2 of 2

Appendix D Well Survey Data

Township Section	n Log	Number Image Filename	Hyperlink Well_Address	Communit CountyCoo	Township	Range	Section	ReceiveDate	CompletionD; WorkType DrillMethoW	VaterUse Depth	Grave	IPacl Seal
03S01E	16	915998 000010D3_Redacted.pdf	View Log									
03S01E	16	533126 000010D6_Redacted.pdf	View Log	PLEASANT(Alameda	03S	01E	16	8/13/2004	10/27/2000 Abandonment or desiU	Inused 73	) FAI	SE FALSE
03S01E	17	460814 000010EA_Redacted.pdf	View Log PLEASANTON PARK	PLEASANT(Alameda	03S	01E	17	8/12/2004	9/15/2004 New Well Reverse ro P	ublic supj 93	4 FAL	SE FALSE
03S01E	21	528573 00001111_Redacted.pdf	View Log RAY STREET (SITE 63, 65, & 73)	PLEASANT(Alameda	03S	01E	23	8/12/2004	6/2/1998 Abandonment or desiU	Inused 2	B FAL	SE FALSE
03S01E	17	936851 001DDCEA_Redacted.pdf	View Log									
03S01E	16 01-5	60W 00080915_Redacted.pdf	View Log	PLEASANT(Alameda	03S	01E	16	5 5/10/1995	9/8/1993 New Well N	/lonitorin _{ 5	) FAI	SE FALSE
03S01E	16 01-5	58W 00080917_Redacted.pdf	View Log	PLEASANT(Alameda	03S	01E	16	3/10/1995	8/1/1994 Abandonment or desiU	Inused 5	6 FAL	SE FALSE
03S01E	21 01-5	60W 00080BB9_Redacted.pdf	View Log	PLEASANT(Alameda	03S	01E	10	5/10/1995	9/8/1993 New Well N	Nonitorin _{ 5	) FAI	SE FALSE

Zone 7														
WELL_NUMBE	USE	ADDRESS	OWNER	<u>COMPLDATE</u>	<u>STATUS</u>	DESTRDATE REMARK	LONGITUDE	LATITUDE	DEPTH	DIAM LOGCOD	<u>e</u> peri	<u>F_U P</u>	ERF_L DA	TE_COMPL
3S/1E 17J 2	supply	1155 SANTA RITA RD	AMADOR HIGH SCHOOL	00000000	destroyed	0000000	-121.877571892	37.669193225	175.00	14.00	0 14	0.00	180.00 00	000000
3S/1E 21C 4	unknown	VERVAIS AVE		0000000	unknown	00000000 ENT'D FR WELL LIST	-121.873128604	37.664506665	0.00	0.00	0	0.00	0.00 00	000000
3S/1E 16P 1	irrigation			00000000	destroyed	0000000	-121.872695858	37.668428465	305.00	0.00	2	0.00	0.00 00	000000
3S/1E 16P 2	irrigation		SFPUC	00000000	destroyed	0000000	-121.872790150	37.667502349	100.00	0.00	0	0.00	0.00 00	000000
3S/1E 16Q 1	supply	3963 STANLEY BLVD	CALLAHAN PROPERTY	0000000	destroyed	0000000	-121.868112364	37.666405004	0.00	84.00	0	0.00	0.00 00	000000
3S/1E 21C49	extraction	4191 FIRST ST	CONOCO PHILLIPS	4/6/2010	0 destroyed	8/15/2013 PRESSURE GROUT W/PORTLAND CEMENT	-121.869614912	37.663743072	55.00	4.00	2 4	5.00	55.00	4/6/2010
3S/1E 21C50	extraction	4191 FIRST ST	CONOCO PHILLIPS	4/6/2010	0 destroyed	8/15/2013 PRESSURE GROUT; PORTLAND CEMENT	-121.869598836	37.663714419	55.00	4.00	2 4	5.00	55.00	4/6/2010
3S/1E 21C51	extraction	4191 FIRST ST	CONOCO PHILLIPS	4/6/2010	0 destroyed	8/15/2013 PRESSURE GROUT WITH PORTLAND CEMENT	-121.869643885	37.663721586	35.00	4.00	2 3	0.00	35.00	4/6/2010



COUNTY		DEPARTMENT OF WATER RESOURCES DEPARTMENT OF PUBLIC WORKS STATE OF CALIFORNIA	DWR NO.38,	/1E-1	16N 82	}
NEAR		WELL LOG		<u> </u>	660	
LOCATION		· · · · · · · · · · · · · · · · · · ·		·		)
OWNER		ADDRESS	·····			·····
DRILLED BY	<del></del>	ADDRESS			···-	·
drilling method		GRAVEL PACKEDDATE C	OMPLETED		<u></u>	<u> </u>
SIZE OF CASING DEF	TH	GTRUCK W	VATER AT			
PERFORATIONS		ßize	z		No	
WATER LEVEL BEFOR	RE PERFORATI	NGAFTER				u- <u>u-ı</u> -ı-
TEST DATA: DISCHA	rge g. p. m	DRAWDOWN FTDRAWDOWN FT	HOURS	RUN_		
OTHER DATA AVAILA	BLE; WATER I	LEVEL RECORDANALY Spring valley w	ater co.	19	12 rep	ort
BURFACE ELEV		SOURCE OF INFORMATIC	Э <b>М</b> ИС			
DEPTH	ELEV. OF BOTTOM OF STRATUM	SOURCE OF INFORMATIO	THICK-	SP. YIELD		
DEPTH	ELEV. OF BOTTOM OF STRATUM	SOURCE OF INFORMATIC	DN	SP. Yield %		
DEPTH 0 - 2 2 - 42	ELEV. OF BOTTOM OF STRATUM		DN.	SP. Yield %		
	ELEV. OF BOTTOM OF STRATUM	DATUMSOURCE OF INFORMATIC MATERIAL soil clay and rocks gravel and hard pan blue glay		SP. YIELD %		
$\begin{array}{r} \text{DEPTH} \\ \hline 0 - 2 \\ 2 - 42 \\ \hline 42 - 60 \\ \hline 60 - 150 \\ \hline 150 - 153 \end{array}$	ELEV. OF BOTTOM OF STRATUM	DATUMSOURCE OF INFORMATIC MATERIAL soil clay and rocks gravel and hard pan blue clay gravel		SP. YIELD %		
DEPTH 0 - 2 2 - 42 142 - 60 60 - 150 150 - 153 153 - 178	ELEV. OF BOTTOM OF STRATUM	DATUMSOURCE OF INFORMATIO MATERIAL soil clay and rocks gravel and hard pan blue clay gravel soapstore, blue		SP. Yield %		
DEPTH 0 - 2 2 - 42 42 - 60 60 - 150 150 - 153 153 - 178	ELEV. OF BOTTOM OF STRATUM	DATUMSOURCE OF INFORMATIC MATERIAL soil clay and rocks gravel and hard pan blue clay gravel soapstone, blue		SP. YIELD		
DEPTH 0 - 2 2 - 42 12 - 60 60 - 150 150 - 153 153 - 178	ELEV. OF BOTTOM OF STRATUM	DATUMSOURCE OF INFORMATIC MATERIAL soil clay and rocks gravel and hard pan blue clay gravel soapstone, blue		SP. YIELD %		
DEPTH 0 - 2 2 - 42 142 - 60 60 - 150 150 - 153 153 - 178	ELEV. OF BOTTOM OF STRATUM	DATUMSOURCE OF INFORMATIO MATERIAL soil clay and rocks gravel and hard pan blue clay gravel soapstone, blue		SP. YIELD		
DEPTH 0 - 2 2 - 42 12 - 60 60 - 150 150 - 153 153 - 178	ELEV. OF BOTTOM OF STRATUM	DATUMSOURCE OF INFORMATIO MATERIAL Soil clay and rocks gravel and hard pan blue clay gravel soapstone, blue		SP. Yield %		
DEPTH 0 - 2 2 - 42 42 - 60 60 - 150 150 - 153 153 - 178	ELEV. OF BOTTOM OF STRATUM	DATUMSOURCE OF INFORMATIC MATERIAL soil clay and rocks gravel and hard pan blue clay gravel soapstone, blue		SP. YIELD		
DEPTH 0 - 2 2 - 42 12 - 60 60 - 150 150 - 153 153 - 178	ELEV. OF BOTTOM OF STRATUM	DATUMSOURCE OF INFORMATIO MATERIAL soil clay and rocks gravel and hard pan blue clay gravel soapstone, blue		SP. YIELD %		
DEPTH 0 - 2 2 - 42 42 - 60 60 - 150 150 - 153 153 - 178	ELEV. OF BOTTOM OF STRATUM	DATUMSOURCE OF INFORMATIC MATERIAL soil clay and rocks gravel and hard pan blue clay gravel soapstone, blue				
DEFTH 0 - 2 2 - 42 12 - 60 60 - 150 150 - 153 153 - 178	ELEV. OF BOTTOM OF STRATUM	DATUMSOURCE OF INFORMATIC MATERIAL soil clay and rocks gravel and hard pan blue clay gravel soapstone, blue		SP. YIELD		
DEPTH 0 - 2 2 - 42 12 - 60 60 - 150 150 - 153 153 - 178	ELEV. OF BOTTOM OF STRATUM	DATUMSOURCE OF INFORMATIC MATERIAL Soil clay and rocks gravel and hard pan blue clay gravel soapstone, blue				
DEPTH 0 - 2 2 - 42 42 - 60 60 - 150 150 - 153 153 - 178	ELEV. OF BOTTOM OF STRATUM	DATUMSOURCE OF INFORMATIC MATERIAL soil clay and rocks gravel and hard pan blue clay gravel soapstone, blue		SP. YIELD		
DEPTH 0 - 2 2 - 42 12 - 60 60 - 150 150 - 153 153 - 178	ELEV. OF BOTTOM OF STRATUM	DATUMSOURCE OF INFORMATIC MATERIAL Soil clay and rocks gravel and hard pan blue clay gravel soapstone, blue		SP. YIELD		
DEPTH 0 - 2 2 - 42 42 - 60 60 - 150 150 - 153 153 - 178	ELEV. OF BOTTOM OF STRATUM	DATUMSOURCE OF INFORMATIC MATERIAL Soil clay and rocks gravel and hard pan blue clay gravel soapstore, blue		SP. YIELD		
DEFTH 0 - 2 2 - 42 12 - 60 60 - 150 150 - 153 153 - 178	ELEV. OF BOTTOM OF STRATUM	DATUMSOURCE OF INFORMATIC MATERIAL Soil clay and rocks gravel and hard pan blue clay gravel soapstone, blue		SP. YIELD		
DEPTH 0 - 2 2 - 42 12 - 60 60 - 150 150 - 153 153 - 178		DATUMSOURCE OF INFORMATIC MATERIAL Soil clay and rocks gravel and hard pan blue clay gravel soapstone, blue		SP. YIELD		
DEPTH 0 - 2 2 - 42 42 - 60 60 - 150 150 - 153 153 - 178	ELEV. OF BOTTOM OF STRATUM	DATUMSOURCE OF INFORMATIC MATERIAL Soil clay and rocks gravel and hard pan blue clay gravel soapstore, blue				
DEPTH 0 - 2 2 - 42 12 - 60 60 - 150 150 - 153 153 - 178	ELEV. OF BOTTOM OF STRATUM	DATUMSOURCE OF INFORMATION		SP. YIELD		
DEPTH 0 - 2 2 - 42 12 - 60 60 - 150 150 - 153 153 - 178		DATUMSOURCE OF INFORMATION				

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35/1E-16 LI~ 01-1652 • ~~ Parch, 1945 LOG OF WELL FOR Pleasanton, California 195 Western DRILLER: Adolph Hummel -HICKNESS 2 Ft. 0 2 54 61 59 44 91 35 2 Soil 52 7 2 Yellow sandy clay 5461638491 Gravel and sand Yellow olay Gravel, boulders and sand Yellow sandy clay 21 7 135 151 44 16 Gravel and sand Yellow clay CONFREETAL 151 Ft. Total finished well 152 Ft. 12" Double 12 Gauge Casing Water Lovel 22 Ft. Perforated 56 to 136 Ft. (80 Ft.)
			• •••• • •	· •••	·	01-	165	52			، سیسینی در است	و موریع مرتقیمیتر پیدیویید. 
	24	5-4 <b>6-5</b>				Cachi			2	chrin	Hac	<u> </u>
	Tes	WELL L	06			WE	LLL	G		WELL	200	<b>9</b>
		PROPOSE	<i></i>	بو بو		(5)	0. A. 157.)		a Alana ang ang ang ang ang ang ang ang ang	EXI (EXI	5755 5755 1913 - 34	9.53.5 1.52.5 1.52.5
	504	FACE OLS	K 344		± 5∧	SURFAC	5 ELLI	97	TOP	501L		2z
U i	ROCKY FILL SOIL	223 312	YELLOW			TOP SOIL						7.8
u	LOAM	× × 14	CLAY		20	YELLOW		•				28
		X - X - X	GRAVEL,	O.	370			52	YE •SAN	LLOW DY CLAY		30
	RONDY LOAM	× × 25	SAND	Ö,	10	SANOY				ι Π		10
		A A A A A A A A A A A A A A A A A A A	000000000	V/A	308	CLRY .	VIII)	-	11	LLOW		12
	SAND PACKED	158 54	VELLOW		30	SAND E	THE ST	54 7	SAN CLAY	E GRAVEZ	218	38
		ю. <b>ф</b>	CLAY		51	GRAVEL	10 - 01 10 - 02 10 - 02	832	SANO	¢ GRAVEL		12
	E SAND -	s g 29		$V \gg$		GENVEL	10	21			2	
	LOOSE	D-D 83		a 0	427	E SAND	O F	84				z5
	YELLOW CLAY	90	CRAVEL	0.0		YELLOW SANDY CLA	, 112	91			10 5° 18.	95
	GRAVEL	18	SAND &	0,00	45	GRAVEL			SAND	¢ GRAVEL	0 0 3.	105
	LOQSE	7. 108 2 C	ROULDERS	00			9.0.8	44	G	RAVEL	<u> </u>	113
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	E SAND	7 127 5		7/5	7 (20	SAND	:P 3	135	5 AND \$ 600	OLDERS GRAVEL ULDERS	100	1355
	YELLOW		YELLOW CLAY	\//Z	23	YELLOW	· 7////////////////////////////////////	110	YELLO	W CLAY		142
	CLAY	149			495	CLAY		151	ANO	GRAVEL	(IA)	150
_	GRAVEL,	00	GRAVEL	. 9. 1	26							
	SAND	3	É SAND	0.4								
	BOULDERS	0.1180	VELLOW	7775	521							
	YELLOW CLAY	1825	CLAY		535							
	VELAW CLAY	18	BLUE					•				
•	TELLON COM	11/12/205	GRITTY		1 43	ø						
ïk	BOULDEES	0 2 /3 ///	CLAY ICLAY	·ሥ	5606	,		•				: •
e N	YELLOW GLAY	227	GRAVEL	0.0	11							
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ŝ	SAND E BOULDERS	19.0 50 1. V.		9								
		0.0 265	AND	4	38							
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· · ·	E BOULDERS	293	YELLOW	VII	ξ ¹ .		· .					
	GRAVEL	N.O.	CLAY.		39		*		-	• .	<u>.</u> -	. 4
- • •	SAND E	600						· ·		·. · ·		
<b>*</b> 7•	O VIIII	311	GEAVELLY		665			4 çd				
	YELLOW	1112 38	YELLOW					NELL	100	75		
	CLAY		CLAY		31			· · · · · · · · · · · · · · · · · · ·	DINI			······································
	TIGHT GENYEL	150			702		Ĩ		INGE	NGINEE	R	
						DR.	TR.	CH.	TO, CAL	CALE	1 · D/	TE SC
						768	WR		A # 1	1= 401	12/2	18/6/34
		and the second	•			APPRO	VED 7	C.B.		IDMG'N	10. 620	なる運

### VATER WELL DRILLERS REP (Sections 7076, 7077, 7078, Water Cede) KΤ

ORIGINAL

File Original, Duplicate and Triplicate with the

REGIONAL WATER POLLUTION

Do Not Fill In 9 40514 No State Well No. Other Well No.

REGIONAL WATER POLLUTION	STATE OF C		, . INTLA	CAR	W.	State Well No.	
CONTROL BOARD No.	STATE OF C	ALIFOR	UNIA	¥ je	55	Other Well No.	l,
	<u> </u>		į	<u> v</u>	; )		<u> </u>
(1) OWNER.	ł	(11) W	ELL 681	LOG: š	. 1. 8	650	
<u>N</u>		Total depth			fr.	Depth of completed well	ft.
A		Formation: L	ft to	by color, ci	baracler, 4+	, size of material, and structure. Fill - racky	
		1		3	"	Soil	<u> </u>
(a) LOCÁTION OF WELL.		3	••	18	•• ,	Loam	
(2) LOCATION OF WELL:		18	<i>e+</i>	43		Sandy loam	
R P D AFFEREN A DODOY 160! M. E.	of Nevis St. :25'	43	**	54		Silty red sand	
Chi of Plack Avenue: 1001 East	st of Santa Rita	54	**	83		Gravel and sand - loose	
Bood - Plananton	Ja oz sourou inte	83		<u>90</u> '	·	Yellow clay	
		: <u>90</u>		108		Gravel & sand	
		<u>108</u>		110		Yellow clay	<u> </u>
(a) STREET OF WORK (sheet).	· · · · · · · · · · · · · · · · · · ·	110		132		Gravel and sand	·
(3) TYPE OF WORK (check):	turba 🖂 🛛 Abradaa 🖂	11.0		100		Cantol good houldong	
New well <u>E</u> Deepening Kecondit		180		182	<b>ر ۲</b>	Yellow clay	
If abandonment, describe material and procedure in It	(5) FOLLIPMENT	182		201	.,	Yellow clay	
(4) PROPOSED USE (Check):		- 201	"	212	**	Gravel-sand-boulders	
Domestic 📋 Industrial 📋 Municipal 🚈	Cable	212	"	220	••	Yellow clay .	
Irrigation 📋 Test Well 📋 Other	Dug Well	220		228	"	Blue clay & rotten logs	
	T(	228		265	17	Gravel-sand-boulders	
(6) CASING INSTALLED:	If gravel packed	265		278	,,	Yellow clay	
	Diameter from to	278		288	**	Gravel-sand-boulders	
From Oft. to 135 fr. 20 Wall	<u>at Hore</u> It. It.		<u>., "</u>	293	"	Yellow clay	
	28-135 . 550	<u> </u>	<u>}</u> "	317	"	Gravel-sand-boulders	
323 020 12 4	<u>202 1)) 0)0 "</u>	<u>317</u>		342		Yellow clay	
		342		348		Grave1-boulders	
		348		370		fellow clay	
Type and size of shoe or well ring	Size of gravels if X 1/8	- 370		<u>388</u> 198		Valley alor	`
Describe joint del ded seams - Welde	d joints	- 1.27		1.72		fravel_cand_boulders	,
		),72		1.95	*	Yellow gravelly clay	
(7) PERFORATIONS:		495	••	521	••	Gravel-sand	
Type of perforator wed Facbory - Louvr	e typo	521	ŧı	535	14	Yellow clay	
Size of perforations 22 in., le	ength, by 1/8 in.	535	"	560		Blue clay - gritty	
From 149 ft. to 180 ft. 45 per lin	pelfoot Rows per ft.	560	••	566	"	Yellow clay	
<u> </u>	<u>foot</u>	<u> </u>		_577_		Gravel-sand	
<u>" 228 " 265 " 15 per lin</u>	<u>foot</u>	577		<u> </u>		Yellow clay	
<u>- 278 288 45 per 1 in</u>	. foot	<u> </u>		. 595	**	Gravel-sand	
<u> </u>	. 1000	595		602		Yellow gravelly clay	
(8) CONSTRUCTION:	(Tárioo	602	<u> </u>	<u>_630</u>		Grave1-sand	
Was a surface sanitary seal provided? D Yes D No To w	vhat depth ft.	630		652		Yellow gravelly clay	
Were any strata scaled assingt pollution? EI Yes [] No If	yes, note depth of strata		44	685		light gravelly yellow and	L
From () (* m 135	fr.		"			blue clay	·
	··	W TEFIC	AL 1	USE O	HH-Y		
Method of Sealing ,36 to 30" cement	ed to 135'	Work starte	a 2-	3		19 62, Completed 4-4- 19	62
					TEME	NT.	
(9) WATER LEVELS:		This we	ll was	drilled n	itder m	wy jurisdiction and this report is true to the b	est of
Depth at which water was first found	Pla ft.	my knowle	edge øn	d belief.		1 1	
minding level before perforating HORUHON SAA	v- JAMCHO39 fr.	NAME	<u> </u>	& N (	Puhr	and dela Co.	
ung level after perforsting S = 884.412	(C19-11-10-3 ft.	17		(Person,	find, or	conferration) // (Typed or printed)	
(10) WELL STRONG	1 1 1 1 2	Address	<u></u>	<u>, or n</u> . 7	$\frac{aout}{c}$		
(10) WELL TESIS:	Le M Pump & Moll		5	ante	<u>u k</u> ar	a, uvurornia	······
Was a pump test made? 2 Yes I No If yes, by whom?		SIGNED1.		1-1		1 Junken	
Yield: 2820 gal./min. with 221	ir. draw down after LUU hrs.			~/ 6861.¤		Well Driller	61
Temperature of water Was a chemical an	allysis made: [] Its K] No	License N	0		~	Dated	
Was electric log made of well? 🗌 Yes 🔲 No		1 A26RA 3*;	0 MVC 40	UN @ SP	U Ý	-	

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### WATER WELL DRILLERS REPORT

(Sections 7076, 7077, 7078, Water Cede)

DUPLICATE			
File Original, Du	plicate and	Triplicate with t	hu
REGIONAL	WATER	POLLUTION	N

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### STATE OF CALIFORNIA

No State Well No. Other Well No.

Do Not Fill In

650

5

ft.

CONTROL BOARD No. 2

CALIFORNIA	Has

OWNER,	(11) WELL LOG:
N21	Total depth 685 ft. Depth of completed well
·· Ada	Formations Describe by color, character, size of material, and str
	TO ft. to 1 ft. Fy 11 - Poole
	<u>-1 3 Soil</u>
(2) LOCATION OF WELL; PLEASANTON WELL	
County Alamanda Owner's number, if any-	
R. F. D. of Street No. Amprove 7601 N. E. of Natria St. : 251	- 43 54 Silty red s
alt of Disch immune 2001 First of Sonto Hits.	
Di di Diserenten	-83-90 Yellow clay
Retween City Well ala, 4 (on the north E	1/2-90 108 & Gravel & sau
City Well NO. 31 ON the South both 151' Deep.	2 108 110 Kellow clay
(a) WURE OF WORK (sheet).	132 22 Gravel and
(3) TIPE OF WORK ( $cbeck$ ):	3 132 149 17 Yollow clay
New well Deepening Reconditioning Reconditioning	149 - 180 ", Gravel-sand-
If abandonment, describe material and procedure in liem 11.	180 182 Yollow clay
(4) PROPOSED USE (cbeck): (5) EQUIPMENT:	182 201 18 Yollow clay
Domestic 🔲 Industrial 🔲 Municipal 💭 🛛 Rotary	1 - 201 - 212 C Gravel-sand-
Irrigation [] Test Well [] Other [] Dug Well	220 Y. Yellow clay
(6) CASING INSTALLED: If gravel packed	- 228 265 2 Gravel-sand-
	265 _ 278 / Yellow clay
From fr. fr. fr. fr.	278 _ 208 / Gravel-sand-
<u>101 0125 125 121 1 1 01 0 125 "</u>	208 293
	14-293
125 650 12 4 282 135 090	317 Jaz Yellow clay
··· // // // // // // // // // // // //	14 342 Star Gravel-bould
	2-348 3'/0-22 Tellow clay
	12-970
Type and lize of shoe of west ring	3-300 427 39 Tellow clay
Decrete joint relided seams - welded joints	it 472 " Gravel-sand-
(7) PERFORATIONS:	5 472 . 495 33. Yellow (3"W
Tron of performance used	15 495 " 521 26. Gravel-Se. C.
Size ( ) Factory - Louvre type	2 521 . 535 M
From the Rows per ste	= 535 . 560 25 . Blue clay -
"149 "180 "45 per lin 1000 " ""	560 . 565 6. Yollow Clay
- 201 212 45 per lin. foot	565 . 577 n . Gravel-sand
228 265 45 ver lin. foot	2 577 . 388 H . Yellow Clay
- 278 288 45 per lin. foot	588 " 595 7 " Gravel-sand
	= 595 " 602 7" Yellow grave
(8) CONSTRUCTION ver for balance	602 . 630 21 . Gravel-sand
Was a surface sanitary seal provided? [] Yes [] No To what depth ft.	7630 . 65222 " Yellow grave
Wins any state and a sector reliation I Ves I No. If yes, note death of strats	652 685 35 " (1ght grave)
	" blue clay
170in ft, to 135 it.	
M st st of Castler	
Method of Sealing	2-3 02
(9) WATER LEVELS:	WELL DRILLER'S STATEMENT: 1 SB.
()) while in the State = 100 th	This well was drilled under my jurisdiction and the
Depth at which water was brit found filling 7 h 1 ft.	my knowledge and venera
Standing level before perforsting	NAME C CONTRACTION CONTINUE TO CC
ig level after perforating	Address
(10) WELL TESTS, SCOT AT YAM	1901 washington Street
(TO) ADE TRAYS: WAS A FUND	Santa Clara Californi
Wars pump teit made? [] Yes [] No If yes, by whom? C. & M. Fump & Woll,	[SIGNED] TTUR
Yields Asil, mia, with ft, draw down after hre.	Well Driller
Temperefuit of Veter Wie a chemical analysis madet I Yes "L' No	License No. 68648 Dated JU
Was electric log made of well? I Yes I No SPECIAL CONTRACTOR	DW

er, size of material, and structure. D* . 1
-Fill Pooky
-Soil
- Loam
Sandy loam
Silty red sand
Gravel and sand - loose
Yellow clay IM 160
Gravel & sand
Yellow clay
Gravel and sand
Yellow clay
Gravel-Sand-boulders
Vollow Clay
Coursel and hard down / 165.00 ?
Vallow claw
-Dlug - Chay
Gravel-sand-houlders
-Tellow clay
Gravel-sand-boulders (1970)
Yellow clay
Gravel-sand-boulders /300
Yellow clay
travel-boulders / 200
Yellow clay
Gravel-sand-boulders to the
Tellow clay
Gravel-sand-boulders /666
Tellow Crevelly clay 100
Gravel-se C Sen
Tellow cl :
nlue clay - gritty
Yellow clay
Gravel-sand (CR-V)
lellow clay
Graver-sand
Idilow gravelly clay 100
Vollow ownzolle elere
Torrow graverry cray (62)
TTRUE REGARTER ARTEON SUG 100
10 CARLAND CALLER CALL
62 4-4- 62
ENT: 1 SP
my partituicition and this report is true to the dest of
1 . 1/ 14
o schallishio 11 CO. (Typed or printed)
Ington Street
ra, Callfornia
Well Driller
ULLY 1, DWR FORM NO. 246 (REV. 3-54)
3311700161.3 0

## NO. 40514

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·24 (5-34) 1 .

35/1E-16L5

RECEIVED REGIONAL WATER POLLUTION CONTROL DOWND #2 -MAY 16 1962 10.50

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Litter tomorrations: 349-349. .... 19 volce per lineal fort

10.12"

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35/1E-16L5 10 Static 2,27, 62 13.10 100 NA TCK -2250 01169t 116 1d ,190 0 El SP. L. 5p. C. : 126. (252,000) 5p. C. : 126. (252,000) 110 Yo Si (292,200) Yield in operating range: (1500-2500 GPM) 125 GPM/FY. DEP: 120 50.0 1.40.6 (281,200) 130 140 500 DECO 12 DECIDECTION 1500 Ò 2000 2500 3000 GALL.CAS NER MINUTE Production test WELL NO. 5 4/37/6: by CAL Remp. Well Co. DRAWDOWN CURVE T. C. BINKLEY CONSULTING ENGINEER PALO ALTO. CALIFORNIA DR REC 1625

a	35/1	E-16	5	40	513				354	E-ILL	2
	76	T. WELL NO.	CCIG 5			WEA	L'L'	26		VELL LO	G.
	54	(PRUP) FREE	5ED) LAN 944	s, š te		SURFACE	157,1 5.ELE	1.344	SURFACE	EXIST. S GLEVESK	24
	ROCKY FILL SOIL	222	2 VELLOW		350	TOP SOIL	<b>7</b>	22	TOP 50	·- 775	εz
× *	LOAM	XXIA	15 CLAY		20	YELLOW					28
-		X X X	GRAVEL	×.0	18	SANDV		52	YELL	CLAY	30
a •	SANDY LOAM		& BOULDER	25	388	5 MAG 7			the second se		40
· · ·	SILTY RED SAND PACKED	11 54				CLAY 🐺		54.	YELLO SANDY.C		52
- -	CRAVEL	8.9	CLAY		39	SAND E GRAVEL YELLOW CLAY		6/2	SANO \$ 64	AVE	'58' (Z
	E SAND -	» 'y" 29		Vis	427	GEAVEL, BOULDERS		21		8.5	70
	YELLOW CLAY	12 - P - 83 11 - ON	TE -	8 Q		¢ SAND VELLOW		84 917		10 10 10 10 10 10 10 10 10 10 10 10	25
2 a	GRAVEL	N P 18	GRAVEL, SAND &	000	45	SANDY CLAY		a a prosecutor de la		S (19)	95 10
~	YELLOW CLAY	P	2BOULDER:	5 N. D.		GRAVEL	9	44	SHNU EGR. GRAV	EL DO	105 8 113
	GRAVEL É SANO	7 9 17		10	472	AND	P. P	u	AND		15
	1.005E	13	5 YELLOW		23	SAND	P 3	135	SAND, BRA E GUULDE		کر کروز ۹
<b>.</b> i	CLAY		, CLAY D		495	CLAY		16	YELLOW C	LAY	142 8
	GRAVEL,	0.0	GRAVEL	194	26	,		/5/	AND 024	/az,	57
	SAND ROULDERS	231 505 1	है SAND	4 19 19	521						
	YELLOW GLAY	0.V 180	2 YELLOW		14						
	GRAVEL & SAND		GLEAT		535						v
•	YELLOW CLAY	11 20	S GRITTY		25				•		-
,	BOULDEES	01 0 2 1 1/1 10	YELLOW CLAY	爂	560 L			<i></i>		• •	È.
	YELLOW GAME	1 22	T GRAVEL	10.10 M	11 577	·				•	
	CPRVEL		YELLOW		11 588		-		•		2.2
	SAND' É BOULDERS	D' C 38	Ŧ	4	•				•	•	
SR.		00265	GRAVEL RNA		38						
	YELLOW CLAY	13	SAND	P o	100		κ.				
	GRAVEL, SAND	010280			62,6		• •	<b>:</b> -			.
and the	YELLOW CLAY	<u>/////293</u>	YELLOW	VIS	39	r		•		•	
$\frac{1}{\sqrt{2}}$	SAND E BOULDERS	60 ²⁴	<b>F</b>		e.		· ·	*			
			GRAVELLY.		665 :		، و خو م				
	YELLOW	11/2 28	YELLOW EGRAY		21		- W	ELL	6095		<u>)</u> ;
	TIGHT GRAVELS	345	TIGHT		با مر د الراب مر بد م			T.C.B	INKLE	1	
				- 	102			NSULTIN		ER A	
						TEON	R	H. REC.	1"= 40	1 12/28/	1813
					رينۍ ځونه . دم	APPROVE	7.6	2 <b>2</b>	USE STORE	ር ' <b>ግ የፖም ኮ</b> ቶስ	- <b>9</b> 1.00



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ORIGINAL

File Original, Duplicate and Triplicate with the

ATER WELL DRILLERS REPO (Sections 7076, 7077, 7078, Water Code)

5050 Do Not Fill In 🚬

(Sections 7076, 7077, 7078, Water Code) REGIONAL WATER POLLUTION CONTROL BOARD No. 2

State Well No. Other Well N

110882

No

pert appropriate number)	
	(11) WELL LOG:
Name	Total depth 647 File ft. Depth of completed well 625 ft.
	Formation: Describe by color, character, size of material, and structure.
Addi	0 fr. to 4 fr. SO11
	4 may 18 Brown clay
(2) LOCATION OF WELL:	18 " 21" "Brown sand add cobbles
Country All amonda Owner's number, if any-	21 " 47 " Gravel, cobbles & boulders
B. F. D. or Street No.	47 54 Yellow clay
Fast side of Santa Rita Road about 801 north	54 " 77'" Gravel, cobbles & boulders
of drivevay to Alisal Elementary School.	77 " 82 " Grey clay
About 30' east of frontage road on Lot 54 of	82 " 92 " Blue clay
Tract 2595. Amador Estates. Unit #1.	92 " 100 " Boulders and gravel
(1) TYPE OF WORK (shock):	100 "104 Yellow silt & gravel
(3) TIPE OF WORK (COUCR):	104 " 106 " Boniders
New well M Deepening I Reconditioning I Abandon I	100 " 109 " Small gravel
If abandonment, describe material and procedure in Item 11.	109 " 112 " Coopiles and gravel
(4) PROPOSED USE (check): (5) EQUIPMENT:	112 " 113 " Grev clay and gravel
Domestic 🔲 Industrial 🗌 Municipal 🕱 🛛 Rotary 🕅 🛣	113 " 122 " Gravel and copples
Irrigation Test Well Other Cable	125 " 141 " Red clav
	$\frac{141}{190} = \frac{109}{101} = \frac{109}{100}$
(6) CASING INSTALLED: If gravel packed	107 " 191 " Grey clay
	10/ 194 Cooples and sand
From ft. to ft. Diam. Wall of Bore ft. ft	100 $202 $ $Hino alart (isitet)$
Un " 2 " 365 " 18"" 5/16 " " "	<u> </u>
365 " 371 " 18"" to 14" taper " "	202 209 Brown clay
371 " 625 " 14"" 5/16 " 36" 0" 130 "	216 " 218 " Proven alow and cobblog
625 " 647 " 14"" OD 1/4" 28" 130 " 647 "	218 " 228 " Gravel and cobbles
	228 " 231 " Sandy brown clay & cobbles
Type and size of shoe or well ring Band Size of gravel: 3/8 x 1/8	231 " 233 " Gravel and cobbles
Describe joint Collars	233 " 239 " Vellow-brown clay
	239 " 280 " Gravel and cobbles
(7) PERFORATIONS:	280 " 284 " Yellow brown clay
Type of perforator used Louvers, except 625-647' were sar	Jed 284 " 300 " Gravel and cobbles
Size of perforations 22 in., length, by 1/8 in	300 " 309 " Yellow brown clay
From ft. to ft. Perf. per row Rows per ft	309 " 328 " Gravel and cobbles
<u>165 · 365 · 12 · · · 4 · · · ·</u>	- 328 " 338 " Yellow brown clay
<u> </u>	338 " 342 " Gravel and cobbles
<u> </u>	342 " 350 "Yellow brown clay
	. <u>350 " 353 " Blue clay</u>
	353 <u>354</u> Gravel and cobbles
(8) CONSTRUCTION: $120$	<u>354 "365 "Blue clav</u>
Was a surface sanitary seal provided? W Yes 1 No To what depth 1.00 It	365 " 369 " Brown clay
Were any strata sealed against pollution? Q Yes X No If yes, note depth of strata	- <u>369 " 372 " Boulders and clay</u>
From ft. to ft.	: <u>372 " 383 "Brown clay</u>
	. (cont. on reverse)
Method of Sealing Cement grout	Work started 2/18/65 19, Completed 5/11:165 19
(0) WATER LEVELS.	WELL DRILLER'S STATEMENT:
(9) WATER LEVELS:	This well was drilled under my jurisdiction and this report is true to the best of
Depth at which water was first found 78 ft	my knowledge and belief.
Standing level before perforating ft	NAME Bill Belknap
tding level after perforating ft	(Person, firm, or corporation) (Typed or printed)
	Address 92/4 So. Buttonwillow
(10) WELL LESIS: Anderson Pump Co.	Reedley, California
Was a pump test made? XI Yes I No If yes, by whom? Chowchilla, Calif	[SIGNED] Bill Ballerian Vh
Yield: 3052. gal./min. with 281 ft. draw down after hrs	Will Driller #
Temperature of water Was a chemical analysis made? 🗌 Yes 🕅 No	- License No. 100033 Dated 2/10/00  19
Was electric log made of well? 🔲 Yes 🖾 No	I 87649 5-63 28м QUIN () А SPQ

ll. Wei	L LOG:	Ì,		•		(C)	11088	32	~
383 2 386 1 404 1	386 Bou 404 San 435 Bro	lders d and grave wn clay	l; some	boulder	3	·	۰.		
471 L 474 L 488 4	471 000 474 Yel 488 San 508 Yel	low brown c d and grave	lay Land co lay	obb <u>l</u> es	· · ·	• •	\$ H	a —	
508	513 San	d and grave	l; some	cobbles		٦٢٢		čusa n.∐	
513 521	521 · Yel 532 · Gra	low brown c vel and cob	lay bles					" +*	
532	540 Yel	low brown c	lày ntr)	-	<b>.</b>			*	
549	582 Blu	e clay	iioy /			an the the second s			
582 <u>584</u>	584 Gra 586 Yel	v <u>el</u> low brown c	lav	·		i i sorre e contra	departi i e di	Upige	4
586	509 Gra	vel and cob	bles	₹  40	•	ŭ, 11. € sv		ં રહે છે. છે.	• ·
609 6 611 6	511 Gre 527 Gra	y clay vel and bou	ldērs	للوحدة					
627 (	536 Gre	y clay	 	-					
640 6	647 Bro	wn clay		د به ب می مو ی					
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	ر مگ در مح	"n nto		,	RECEIVER	1			
•	•	1 jing 11 (A) -			REGIONAL WATER CONTROL BOA	POLLUTION, NO #2 935	វ ភ្លម		
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)		្រះ្	مرضل مراقع مربعو م	مه مد ا ملاقه الم					
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CRIGINAL File Orginal, Duplicate and Triplicate with the REGIONAL WATER POLLUTION RECEIVED	RILLERS , 7078, Water C	REPO		Do Not Fill In Nº 24321
CONTROL BOARD No. 2 REGIONAL WATER POLLOSTATE OF C		VIA OF	439 °	Other Well No.
SFP / 1958	<b>N</b>	<u> </u>		
OWNER:	.(11) WE	LL LOG:		~
Name	Total depth	151	ft. Depth	of completed well 151.
Address	Formation: Det	teribe by color, c. It. 10 <b>2</b>	fr Ton	of material, and structure.
	2	. 52	" Yell	ow Sandy Clay
(2) LOCATION OF WELL:	52	<u> </u>	" Clay	& Gravel
County Alemade Owner's number, if any- none	- : : : : : : : : : : : : : : : : : : :	<u>    105     </u>	Sand	& Gravel
R. F. D. or Street No. Black Ave. & Santa Rita Road.	105	<u>    128                                </u>	<u> </u>	rel & Boulders
Pleasenton	128	-133	<u> </u>	, Gravel & Boulders
	1/2	<u>146</u> " 161	<u> </u>	ov Clay
· ·		<b></b>	<u>rot</u> i	TON ATON OF ALLAND
		11 ¹	••	
(3) TYPE OF WORK (check):	) 	**		
New well 🖾 Deepening 🗋 Reconditioning 🗋 Abandon 🗍			••	
If abandonment, describe material and procedure in Item 11.		······································		4
(4) PROPOSED USE (check): (5) EQUIPMENT:		••	**	·
Domestic 🔲 Industrial 🗍 Municipal 😿   Rotary	·····	**	t+	
Irrigation 📋 Test Well 📋 Other 🔲 🛛 Dug Well 🗖		41	"	
(c) CARINE INFERIALLED. If annual analysis	·	**	.,	
(6) CASING INSTALLED: IT graver packed		н		n
From O to 12 to 18 min 7/1 of Bore ft. ft.	<u> </u>	H .		
" 0 " 151 " 12" 10 " " "	<u> </u>	••• ••	1. 	
	<u></u>		**	
· · · · · · · · · · · · · · · · · · ·		11		
		45		······································
		te	**	
type and size of shoe or well ring 3/4 X 10 [Size of gravel:	· · · · · · · · · · · · · · · · · · ·	1) 		
	······································	á _f ,		
(7) PERFORATIONS:		11 N	~ ···	1: A 1: A
Type of perforator used Mills Knife		16	ti	
Size of perforations 25 in., length, by 5/16 in.		t <del>,</del>		
Prom UD ft. to LOU ft. 7 Perf. per row L Rows per ft.		**	" 	COD ACCIMIN - 1185 - ANI Y
анан ант ант	<u> </u>			I VIT VETIVIAL VOL VINCI
te je je statu visitet		•1		
ы <i>и 6</i> , чан янк		v	**	
		ta n	11	······································
(6) CONSTRUCTION:		1+	**	
Were now strengt and point rollation) [] Yes IT No. If we note death of strengt	<del>_</del>	10 	- P1	·····
Prom fr rn fr				
		17	32	
Method of Sealing	Work started	Jima 22	¹⁹ 55	, Completed, Attonto+ 12 1
	WELL DRU	LLER'S STAT	EMENT	
(9) WATER LEVELS:	This well	was drilled un	der my juri	isdiction and this report is true to the i
Depth at which water was first found 65 ft.	my knowleds	ge and belief.		
Standing level before perforating 52 ft.	NAME WE	STERN W	THE DRI	ation) (Taked on beinded)
ing level after perforating 5%	Address F	P. 0. Bo	x 47	t ypen of printed)
(10) WELL TESTS:	ę,	ian Jose	Calif	ai • ●
Was a pump test made? 😴 Yes 🗍 No If yes, by whom? driller		12C		
Yield 200 gal./min. with 53 ft. draw down after 573 hrs.	[ SIGNED ]	nen da	Carl Second	Well Driller
	T !	< JTQY		Dated Sept, 3 19

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35/1E-16L2

## Pleasanton Town Well No. 3

LOG OF WELL FOR

BLACK AVE. AND SANTA RITA ROAD NEAR FLEASANTON, CALIF.

Brillor:

1

Carl Porter : WESTERN P.

1958

Drilled for S.F. water dept. under contract NO. WD-837

			-	THICKNESS	
ມັນກອ	23	0	2	2 Ft.	Top Soil
	23	2	30	28	Yollow Sandy Clay
	24	30	40	10	19 錄 11
	25	40	52	12	91 IX IX
	25	52	58	6	Clay & Gravel
	26	58	70	12 (	Sand & Gravel (water at 65')
	27	70	95	25	14 54 D
	30	95	105	10	an Ma Ca
	30	105	113	8	Gravol & Boulders
July	1	113	128	15	67 95 8 <b>9</b>
	2	128	133	5	Sand, Gravel & Boulders
	2	133	142	9	Yellow Clay
	2	142	150	8	Yellow Clay & Gravel
	3	150	151	1	80 ph 28 87

151 Ft. 14" Double 10 Gauge Casing 42 Ft. 18" x 1/4" Control Casing sandary seal.

Water Level 52 Ft. but encoundered @ 65'

Perforated: 65 to 130' - 65 Ft. 6 heles per ft.

Drilled Aug. 13, 1958

1200 GPM WITH 53' drawdown After 571/2 hrs.



3 5/1E-16L2

New Town 11 - 11 November 20, 1961 Log of Well drilled in 1958 by Carl Forter under San Trancisco Water Department contract No. WD-837 with Western Well Drilling Company, Ltd. at Black Ave. and Santa Rita Road. 2 28 12 12 50 8 5 5 9 8 1 Top soil Yellow sandy clay 02300280557055383 11235 11235 2 30 40 58 н Clay and gravel Sand """ rf. 11 Gravel " Boulders Sand, gravel and boulders Yellow clay " and gravel 1 and gravel 142 150 151 feet of 14" double 10 gauge casing 42 feet of 18" x 1/4" control casing Water Level 52 feet Perforated 65' to 130' (65') 6 holes per foot CONTRACTOR LOCA においいないないのでは、「「「「「「「「」」」」」

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	35/1	E-10	645			achia	- 16 - 1 - 16 - 1	14 (	35/1E -	1622)
	785	T. WEL	LLOG	÷ .		WEL	LLOG		WELI	1.206
		ND (PROP	F5 POSED	1		N	O. L. Martin	an a	NO CEXI	57 . S
	5U	FACE	CLAK 344			SURFAC	SELEV. 344	دن د	FACE.6L	EV. 344
	ROCKY FILL SOLL	<b>222</b>		77	350	TOP SOIL	m 2 2	7	OP SOIL	
	LOAM	X,X.	15 YELLOW		20			بر الجنبي ا		100 .4
•	.1	XXXX	6 CLAY		370	YELLOW	52	·· •·	VELLOW	
•		× ×	GRAVEL, 15 SAND		18	SANDY		ۍ د	ANDY CLAY	30
٤	SANDY LOAM	1. 2 x 3 -	& BOULDER	1	388			· • .	. <i>I</i> I	40
	SILTY RED		ii ii			CLAY 🦿		. 5	YELLOW	12
	SAND PACKED		54 - YELLOW	VIA	29	SAND &	54	çž	NY & GRAVEZ	216 38
	CRAVEL		CLAY .	VM		YELLOW CLAY	10552 89 2	مري` •	NO & GRAVEL	12
	& SAND -	₩ <b>7</b>	29	VS		GEAVEL,	0 21			1
	LOOSA	D. V.D.	33	00	427	¢ SAND	0 8 84			25 z5
•	YELLOW CLAY		D CRAVEL	0.0		SANDY CLAY	91 7			0 × 11 95
	GRAVEL & SAND		18 SAND &	80	45	GRAVEL	0.	50	NDEGRAVEL	6.43 10 0.43 1/5
	LOQSE	P	082 <i>804LDÉRS</i>	N. 9.		and the state of t	9 8 44	0.4	CONCI	0.5. 8
	GRAVEL	. 7	(1	4	-	AND	2.11		GRAVE -	0015
	& SAND	·	275		472	SAND	Y	5.0	SOULDERS	0,0,128
	20052		32 VELLOW	VM	23	Xerrow	:P, 8: 135	VEL	LOW CLAY	
	CLAY		17 ELAY	<b>//</b> \$	495	CLAY	16	YE.	LLOW CLAY	1428
			<i>4</i>	. A D A			151	Al	VO GRAVELI	151
	GRAVEL,	0.0	GRAVEL	. 9 . 1 .	26					1
	BOULDERS	0!	51 9 34772	19	521	•				
`	in the real	O'U	802 YELLOW	VIS	14					
	GRAVEL & SAND		875 CLAY		535					
	YELLOW CLAY		18 BLUE		24					
٠	CRAVEL SAVE		205 GRITTY		25					.
3	BOULDEES	975	IS CLAY	爂	560 6		. *			
•	YELLOW CLAY		14 GRAVEL		11		•			
		1.10	SAND	7775	577					
<b>`</b>	GRAVEL,	,3,-	CLAY		588.			r		
	SAND & BOULDERS	0,0	38	· Δ				•		
343 °.		07	GRAVEL		38					
<b>7</b> 4 .4	· · · · · · · · · · · · · · · · · · ·		13 5AND		<b>,</b>					
•	YELLUN CENT		278	0.7	626			*		
• • • • •	GRAVEL, SAND	3202	10 1885-	$\langle \rangle \rangle$	<b>]</b> .		*	5		
	YELLOW CLAY	× 0.1	93 YELLOW	VIÆ	70	-	•			1
	CRAVEL	7.07	24 CLAY.	VII	21		• _	2		4
• •	BOULDERS	3.9	151	VAS					· ·	•
4			GRAVELLY.		665		· · ·			
	YELLOW.		VELLOW .				WEL	6 10	65	
	GLRY .		CLAY		31 .				<u> </u>	
	TIGHT GEAVEL		505	110	702		Сомос.			
		ىلى. ئەرۋ			alera e con		PALO	ALTO, CA	LIFORNIA	<u>, (</u> , , , , , , , , , , , , , , , , , ,
		 				DR. 760 1	TR. CH.	REC. 1	SCALE	12/28/61
				•		APPROVE	D' T.C. 1	i i i i i i i i i i i i i i i i i i i	DWG.NO	620(-2

¥ 27 7... File in Well Jog Record Boot 3/1E-16L 01-1655 Pleasanton. Job y7. ill 20' South Blaco LCG (F LELL. - 150' west Santa Rita Road 6 feet Qut 5-1936 Top soil -----Clay, yealow sticky ----- 6 to Gravel free ----- 43 " п Twi. 43 n 63 Gravel & boulders, some clay ----- 63 " Gravel free ----- 70 " 70 п 76 Clay sticky ----- 75 " 78 O Gravel & boulders, free ----- 78 Gravel & Boulders -- 95 17 ġБ π 99 Gravel & boulders froe ----- 148 " Gravel, boulders froe ----- 148 " Gravel, boulders froe ----- 148 " Gravel & boulders froe ----- 141 " Gravel, boulders froe ----- 141 " Gravel, boulders froe ----- 145 " ^vO 103 106 112 124 ΥŤ 17 138 141 " Π 148 **HEANOC** 168 -- 155 158 'Clay -----156 ft. 1-22 18 ft. top 6' blank, 9' perforated, bottom 3' blank with plain bend 2" x 4" 138 ft. 18 ft. all perforated 120 ft. <u>18 ft.</u> every other 3¹ perforated 102 ft. 18 ft. all perforated 84 ft. 18 ft. top 6' blank, bottom 12' perforated 66 ft. <u>18</u>ft. all perforated 48 ft. <u>18 ft.</u> top 12' blank, bottom 6' perforated 30 ft. 36_ft. blank PRTPAT 6 ft. to get.

01-1656

2

Ball Martin Contraction

И́ —			3/	1F-1/2	103
/	LOG OF COLLEU	HITY WELL NO.	1. 1	' <u> </u>	. L-01
From	<u>T0</u>	Haterial	- ]		7
	- 4 -	blook loom	1		ļ
4.	- 12 -	sandy clay			<u> </u>
12	- 20 -	) u_ # }	1	र	
20	- 23 -	sand		<pre></pre>	
23	- 30 -	hard coment		. *	
0 x36	- 45 -	coment grave	1	E-	
O45	- 61 -	hard cemens			1
` <b>61</b>	- 72 -	yellow sandy	clay	E I	
<b>72</b>	- 78 -	cement grave	1.6.010.5	E	
F 78	- 83 -	coment grave	1	E	
() 94	- 98 -	COATES FRAV	1	I É I	Í
96	- 104 -	hard cement			.
E 104	-, 106 -		& boulders		. 1594
. Ö 106	- 110 -	11 N	നി		
Ŭ 125	- 135	11	<u>(176</u> )	間一世世	
135		cenon erave	1		
: 155	= 165 =	yellow sondy	r clay with	blue streaks	-
165	- 175 -	" olay	(sticky)		
175	- 177	joament clay			
177	- 180 -	corrad grav	al (10080)	-perforated	
. 180	- 187 -		& Gada		
187	- 190 -	ASTTON CTRA	- Tolov (sti	aky)	
190	= 200 =	hard cement			
200	- 206 -	coment grav	i el with sof	streaks	
206	210 -	yolloy sand	y clay (har	a)	
210	- 214 -	coment clay	& stones		
214	- 218 -	grav	al _ perf	orated	4
100 million 100	- 225 -	Traver & so	v olav		
225	- 235 -	hard clay	ith gravel		
235	- 240 -	blue clay		4 m	1
240	- 246 -	yollow sand	oley		• • • •
246	252	longa grave	1 & send		-
252	264 -	allor come	ani clev		
1 259		fine grave.	La send		
26	2 - 272 -	fine grave.	L & sand (to	oo fins. to yu	h holes in
27	2 - 273	_ gravel & se	ənfā		-
27	3 - 282 -	corant gra	vil mixad w	tth clay	
. 28	2 - ,300 -		• • •	_ ** =	In the P
	- 205 -	AOTTOM OTC	7	-	
	1 iv.				1
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COUNTY		DEPARTMENT OF PUBLIC WORKS STATE OF CALIFORNIA	DWR NO. Other N	DWR NO. 35/1E-161.82 B			
EAR			01	1	7		
		WELL LOG	. {	01-16	6 <b>57</b>	<u>}</u>	مر مع از مراجع
OCATION	,					<u></u>	(h.), 
WNER		ADDRESS					
RILLED BY		ADDRE95	: .			· · · · · ·	
RILLING METHOD	·	GRAVEL PACKEDDATE	COMPLETED	)	<u></u>	,- <u></u> ,	······
IZE OF CASING DI	ZPTH	STRUCK	WATER AT				
ERFORATIONS		91	Z <u>e.</u>	·	_No,		
VATER LEVEL BEF	ore perforatin	NGAFTER	. <u> </u>		<u></u>		
'EST DATA: DISCH	ARGE G. P. M	DRAWDOWN FT,		JRS RUN_	ı		<u>~</u>
THER DATA AVAIL	LABLE: WATER L	EVEL RECORD ANAL	.YSI8				
					2020		rt
BURFACE ELEV		Dpring Val batumsource of informat	LLey wat	er co.		repo:	
DEPTH	ELEV. OF BOTTOM OF STRATUM	DDTING VAL DATUMSOURCE OF INFORMAT		CK- SS VIELD		repo:	
DEFTH	ELEV. OF BOTTOM OF STRATUM	DDTING VAL DATUMBOURCE OF INFORMAT MATERIAL 		ck-sp. ss yield		repo:	
DEPTH 0 - 6 6 - 10	ELEV. OF BOTTOM OF STRATUM	DDFING VAL DATUMBOURCE OF INFORMAT MATERIAL top_soil light_sandy_clay		ck- SP. SS VIELD		: repo:	
DEFTH 0 - 6 6 - 111 111 - 115	ELEV, OF BOTTOM OF STRATUM	DATUMSOURCE OF INFORMAT MATERIAL 	THINK	ck- ss vielo		: repo:	
DEPTH 0 - 6 6 - 1,1 1,1 - 1,5	ELEV. OF BOTTOM OF STRATUM	DATUMSOURCE OF INFORMAT MATERIAL 	THINE	ck- ss vielo %		: repo;	
DEPTH 0 - 6 6 - 111 111 - 115	ELEV. OF BOTTOM OF STRATUM	DATUMSOURCE OF INFORMAT MATERIAL top_soil light_sandy_clay hard_bed_clay_and_gravel hard_pan_and_coarse_gravel	THINE	ck- ss vielo		: repo:	
DEPTH 0 - 6 6 - 111 111 - 115	ELEV. OF BOTTOM OF STRATUM	DATUMSOURCE OF INFORMAT MATERIAL top_soil light_sandy_clay hard_bed_clay_and_gravel hard_pan_and_coarse_gravel	THINE	ck- sp. ss vield		· repo	
DEPTH 0 - 6 6 - 1,1 1,1 - 1,15	ELEV. OF BOTTOM OF STRATUM	DATUMSOURCE OF INFORMAT MATERIAL 	THINE	ck- sp. vielo %			
DEFTH 0 - 6 6 - 111 111 - 115	ELEV, OF BOTTOM OF STRATUM	DATUMSOURCE OF INFORMAT MATERIAL top_soil light_sandy_clay hard_bed_clay_and_gravel hard_bard_pan_and_coarse_gravel,		ck-vield ss vield %		· repo:	
DEPTH 0 - 6 6 - 1,1 1,1 - 1,5	ELEV. OF BOTTOM OF STRATUM	DATUMSOURCE OF INFORMAT MATERIAL top soil light sandy clay hard bed clay and gravel hard pan and coarse gravel		ck- ss vielo ss			
DEFTH 0 - 6 6 - 111 111 - 115	ELEV. OF BOTTOM OF STRATUM	DATUMSOURCE OF INFORMAT MATERIAL top_soil light_sandy_clay hard_bed_clay_and_gravel hard_bad_clay_and_gravel hard_pan_and_coarse_gravel,		CK- SP- VIELD SS VIELD		· repo:	
DEPTH 0 - 6 6 - 1/1 1/1 - 1/5	ELEV. OF BOTTOM OF STRATUM	DDTING VAL BATUMSOURCE OF INFORMAT MATERIAL top. soil light_sandy clay hard_bed_clay_and_gravel hard_bard_pan_and_coarse_gravel	THINE	ck- ss vield ss			
DEPTH 0 - 6 6 - 1,1 1,1 - 1,5	ELEV. OF BOTTOM OF STRATUM	DATUMSOURCE OF INFORMAT MATERIAL 	THINE	ck- sp. yielo %			
DEPTH 0 - 6 6 - 111 111 - 115	ELEV, OF BOTTOM OF STRATUM	Doring Val BATUMSOURCE OF INFORMAT MATERIAL top. soil light sandy clay hard bed clay and gravel hard pan and coarse gravel hard pan and coarse gravel		ck- sp- ss vielo %			
DEPTH 0 - 6 6 - 1,11 1,11 - 1,15	ELEV. OF BOTTOM OF STRATUM	DPING VAL BOURCE OF INFORMAT MATERIAL top soil light sandy clay hard bed clay and gravel hard pan and coarse gravel.					
DEPTH 0 - 6 6 - 111 111 - 115	ELEV, OF BOTTOM OF STRATUM	DATUMSOURCE OF INFORMAT MATERIAL 					
DEPTH 0 - 6 6 - 1,11 1,11 - 1,15	ELEV. OF BOTTOM OF STRATUM	DATUMSOURCE OF INFORMAT MATERIAL 					
DEPTH 0 - 6 6 - 1,11 1,11 - 1,15	ELEV. OF BOTTOM OF STRATUM	DDTING VAL BOURCE OF INFORMAT MATERIAL top soil light sandy clay hard bed clay and gravel hard pan and coarse gravel,					
DEPTH 0 - 6 6 - 1/1 1/1 - 1/5	ELEV, OF BOTTOM OF STRATUM	DATUMSOURCE OF INFORMAT MATERIAL top soil light sandy clay hard bed clay and gravel hard pan and coarse gravel					
DEPTH 0 - 6 6 - 1,11 1,11 - 1,15		Dpring Val BOURCE OF INFORMAT MATERIAL MATERIAL top soil light sandy clay hard bed clay and gravel hard pan and coarse gravel hard pan and coarse gravel					
DEPTH 0 - 6 6 - 1,11 1,11 - 1,15	ELEV. OF BOTTOM OF STRATUM	DATUM					
DEPTH 0 - 6 6 - 1,11 1,11 - 1,15	ELEV, OF BOTTOM OF STRATUM	DATUM					
DEPTH 0 - 6 6 - 1,11 1,11 - 1,15 		DATUM					
DEPTH 0 - 6 6 - 1,11 1,11 - 1,15		DATUM					

FORM 263. 65981 11-57 10M & SPG

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#### ATER WELL DRILLERS REP

(Sections 7076, 7077, 7078, Water Code)

No 40549State Well No.

Do Not Fill In

ORIGINAL

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File Original, Duplicate and Triplicate with the

REGIONAL WATER POLLUTION

CONTROL BOARD No. 2 STATE O	F CALIFORNIA Other Well No. 3/1E-161
	(11) WELL LOC
	(II) WELL LOG:
	Totsl depth /UZ ft. Depth of completed well 1850 11018 ft.
A	Formation: Describe by color, character, size of material, and structure.
	<u> </u>
	3 " 18 " Loam 3
(2) LOCATION OF WELL:	18 " /3 " Sandy loam
County ALAMODA Owner's number, if any-	- 1.3 " 51 " Silty red sand - packed 10
R. F. D. or Street No. Spprox. 160' N.E. OI NEVIS DU.	
25 ¹ S.W. of Black Ave.	83 " 90 " Yellow clay ">
<u>90' East of Santa Rita l</u>	10. 90 108 Gravel & sand - loose 15
, 	
(3) TYPE OF WORK (check): Test Hole	127 " 132 " Gravel & sand - loose 25
New well Deepening Reconditioning Abandon	D 132 " 149 " Yellow clay 3
If abandonment, describe material and procedure in Item 11.	149 "180 "Gravel-sand-boulders 25
(4) PROPOSED LISE (check): (5) EOUIPMEN	T: 180 " 182 " Yellow clay 3
	1 182 187 "Gravel and sand 25
Domestic I Industrial Municipal I Cable	1 187 " 205 " Yellow clay "5
Irrigation 🗍 Test Well 🐹 Other 📋 🛛 Dug Well 📋	205 213 Gravel-sand-boulders 15
(6) CASING INSTALLED: If gravel packed	227 "265 " Gravel-sand-boulders 25
SINGLE DOUBLE Test Holese Diameter from	10 265 " 278 "Yellow clay"
From ft. to ft. Diam. Wall of Bare ft.	<u> </u>
	288 " 293 " Yellow clay 3
1) tr 11 tr ff	293 " 317 " Gravel-sand-boulders 15
	317 " 345 " Yellow clay 3
n n o o' ti	<u>345 350 "Tight gravel and sand 15</u>
ie in it is it i	<u>350 " 370 " Yellow clay 3</u>
Type and size of shoe or well ring Size of gravel:	<u>370 " 388 " Gravel-sand-boulders 25</u>
Describe joint	<u>388 " 427 " Yellow clay 3</u>
	427 " 472 " Gravel-sand-boulders
(7) PERFORATIONS:	<u>472 " 495 " Yellow clay 🔁</u>
Type of perforator used	
Size of perforations in., length, by	<u>-in. 521 " 535 " Yellow clay 70</u>
From ft, to fr. Perf, per row Rows pe	<u>535 " 560 " Blue gritty clay</u>
	<u> </u>
	566 " 577 " Gravel and sand 2.5
	<u>577 * 588 * Yellow clay</u>
	626_"665_" Yellow clay?>
	( 665 " 702 " Gravelly vellow and grey clay
Was a suriace sanitary seal provideor [] ies [] No 10 what depth	Tight
Were any strata sealed against pollution? [] Yes [] No If yes, note depth of strata	PUR UFF.CIAL USE UNLY
from fr. to ft.	·····
Method of Sealing	Work started 10-26, 1 / 1961, Completed 41-8, 1961
(9) WATER LEVELS:	WELL DRILLER'S STATEMENT: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
ading lavel after perforsing	ft. (Person, film, or corporation) (Typed or printed)
furgend folge stree hetberseing Z	Address 1901 Waskington Street
(10) WELL TESTS:	Santa Glara Balifornia

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Dated.

Well Driller

{Signed

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55689 3-54 50M QUIN 🖲 SPO

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July 1

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DWR FC

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(10) WELL 1	TESTS:		
Was a pump test madè?	🛛 Yer 🗋 No If	f yes, by whom?	
Yield:	gal./min. with	ft, draw down after	hrs.
Temperature of water		Was a chemical analysis made? 🔲 Yes 📑 No	
Temperature of water	ر الم يور الم المعر	Was a chemical analysis made? 🛛 Yes 🗌 No	-

sture of water	Was	a chemical analysis made?	🛛 Yes 🗔 No		License No.
tric log made of well?	O Yes To No		r	ڊ	55689 3-54



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סטאדצ		ום	PARTMENT OF PUBLIC WORKS	DWR NO	30/11	2-10M	100
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EAR			WELL LOG	1	5402	10001	13.00
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			х. ж		01-16	58	∣ ¦ **")°
OCATION		·····					<u> </u>
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		<u> </u>	······································			- <del></del>	
14/4/17/20		• •	ÅDD//E00				
WNGR			ADDRE95				
			ADDREAS				
RILLING METHOD			GRAVEL PACKEDDAT	S COMPLETED.			
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IZE OF CASING DEF	чтн		STRUC	K WATER AT			<u></u>
			-				
ERFORATIONS				31ZE		No	,,,,,,,,,
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VATER LEVEL BEFOI	RE PERFORATIN	IG	AFTER				······
			· · · · ·	-			
EST DATA; DISCHA	RGE G. P. M	-	DRAWDOWN FT.		IS RUN_	<u>`</u>	
THER DATA AVAILA	OLE: WATER L	EVEL RECORD	ANA	LYS19			
			Spring valle	ey ^{WA} ter c	0. 19	12 re	port
		<b>T</b>	COUDAR OF MICONU	TION			
URFACE ELEV		DATUM	SOURCE OF INFORM				
		DATUM				<u></u>	
DEPTH	ELEV. OF BOTTOM	DATUM	MATERIAL	THIC	K- SP. Yield	<u> </u>	
	ELEV. OF BOTTOM OF STRATUM		MATERIAL	THIC	K- SP. Yield		
DEPTH 0 -10	ELEV. OF BOTTOM OF STRATUM	top soil-	MATERIAL yellowish, sandy		K- SP. YIELD		
DEPTH 0 -10 10 - 27 27 - 28	ELEV. OF BOTTOM OF STRATUM	top soila clay	MATERIAL yellowish, sandy	1:2 1:2 7	K- YieLD %		
DEPTH 0 -10 10 - 27 27 - 28 28 - 33	ELEV. OF BOTTOM OF STRATUM	top soil- clay blue clay	MATERIAL yellowish, sandy	120 120 120 120 120 120 120 120	K- SP. YieLD %		
DEPTH 0 -10 10 - 27 27 - 28 28 - 33	ELEV. OF BOTTOM OF STRATUM	top soil- clay blue clay gravel	MATERIAL yellowish, sandy	THIC           10           10           10           11           12           13           3           3	K- S S XieLD %		
DEPTH 0 -10 10 - 27 27 - 28 28 - 33	ELEV. OF BOTTOM OF STRATUM	top soil- clay blue clay gravel	MATERIAL yellowish, sandy	THIC NES	K- SP- YIELD %		
DEPTH 0 -10 10 - 27 27 - 28 28 - 33	ELEV. OF BOTTOM OF STRATUM	top soil- clay blue clay gravel	MATERIAL yellowish, sandy	7 HIC NES: 12 12 12 17 5	K- SP, YieLD %		
DEPTH 0 -10 10 - 27 27 - 28 28 - 33	ELEV. OF BOTTOM OF STRATUM	top soil- clay blue clay gravel	MATERIAL yellowish, sandy	7 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	K- SF, YIELD %		
DEPTH 0 -10 10 - 27 27 - 28 28 - 33	ELEV. OF BOTTOM OF STRATUM	top soil- clay blue clay gravel	MATERIAL yellowish, sandy	7 HIC NES	K- SP, YieLD %		
DEPTH 0 -10 10 - 27 27 - 28 28 - 33	ELEV. OF BOTTOM OF STRATUM	top soil- clay blue clay gravel	MATERIAL yellowish, sandy	7 12 12 12 12 12 12 12 12 12 12	K- SP, YIELD %		
DEPTH 0 -10 10 - 27 27 - 28 28 - 33	ELEV. OF BOTTOM OF STRATUM	top soil~ clay blue clay gravel	MATERIAL yellowish, sandy	THIC NES	K- SP. YigLD %		
DEPTH 0 -10 10 - 27 27 - 28 28 - 33	ELEV. OF BOTTOM OF STRATUM	top soil- clay blue clay gravel	MATERIAL yellowish, sandy	7 HIC NES	K- SP, YIELD %		
DEPTH 0 -10 10 - 27 27 - 28 28 - 33	ELEV. OF BOTTOM OF STRATUM	top soil- clay blue clay gravel	MATERIAL yellowish, sandy	7 HIC NES	K- SP, YIELD %		
DEPTH 0 -10 10 - 27 27 - 28 28 - 33	ELEV. OF BOTTOM OF STRATUM	top soil- clay blue clay gravel	MATERIAL yellowish, sandy	7 HIC NES			
DEPTH 0 -10 10 - 27 27 - 28 28 - 33	ELEV. OF BOTTOM OF BTRATUM	top soil- clay blue clay gravel	MATERIAL yellowish, sandy	7 HIC NES			
DEPTH 0 -10 10 - 27 27 - 28 28 - 33	ELEV. OF BOTTOM OF STRATUM	top soil- clay blue clay gravel	MATERIAL yellowish, sandy				
DEPTH 0 -10 10 - 27 27 - 28 28 - 33	ELEV. OF BOTTOM OF STRATUM	top soil- clay blue clay gravel	MATERIAL yellowish, sandy				
DEPTH 0 -10 10 - 27 27 - 28 28 - 33	ELEV. OF BOTTOM OF BTRATUM	top soil- clay blue clay gravel	MATERIAL yellowish, sandy	THIC           1/2           1/2           1/2           1           3			
DEPTH 0 -10 10 - 27 27 - 28 28 - 33		top soil- clay blue clay gravel	MATERIAL yellowish, sandy				
DEPTH 0 -10 10 - 27 27 - 28 28 - 33	ELEV. OF BOTTOM OF STRATUM	top soil- clay blue clay gravel	MATERIAL yellowish, sandy	THIC           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2           1/2			
DEPTH 0 -10 10 - 27 27 - 28 28 - 33	ELEV. OF BOTTOM OF STRATUM	top soil- clay blue clay gravel	MATERIAL yellowish, sandy	THIC           1/2           1/2           3           5			
DEPTH 0 -10 10 - 27 27 - 28 28 - 33	ELEV. OF BOTTOM OF STRATUM	top soil~ clay blue clay gravel	MATERIAL yellowish, sandy				
DEPTH 0 -10 10 - 27 27 - 28 28 - 33		top soil- clay blue clay gravel	MATERIAL yellowish, sandy				
DEPTH 0 -10 10 - 27 27 - 28 28 - 33		top soil- clay blue clay gravel	MATERIAL yellowish, sandy				
DEPTH 0 -10 10 - 27 27 - 28 28 - 33		top soil- clay blue clay gravel	MATERIAL yellowish, Sandy				
DEPTH 0 -10 10 - 27 27 - 28 28 - 33		top soil- clay blue clay gravel	MATERIAL yellowish, sandy				
DEPTH 0 -10 10 - 27 27 - 28 28 - 33	ELEV. OF BOTTOM OF STRATUM	top soil- clay blue clay gravel	MATERIAL yellowish, sandy				
DEPTH 0 -10 10 - 27 27 - 28 28 - 33 		top soil- clay blue clay gravel	MATERIAL yellowish, sandy				

DATE.

SHEET 1 OF

LOG OBTAINED BY____

REGION	DEPARTMENT OF DEPARTMENT OF DEPARTMENT OF STAT		ENT OF WATER RESC EPARTMENT OF PUBLIC WORK STATE OF CALIFORNIA	URCES	DASIN DWR NO, OTHER NOS,_	IS∕ <u>1</u> E	-16M	37
NEAR								
LOCATION		۲ 	• •	- 	0	1-165	59	
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OWNER	, ,		ADDRESS					
DRILLED BY			ADDRESS					
DRILLING METHOD		<u> </u>	GRAVEL PACKED	DATE CON	IPLETED			
	EPT <b>H</b>			STRUCK WA	15R AT		No	
WATER LEVEL BES			AFTER	7 <b>(45_</b> _				<u></u>
TEST DATA: DISCH	ARGE G. P. M	,	DRAWDOWN FT		HOURS	RUN_	1	
OTHER DATA AVAIL	LABLE: WATER L	EVEL RECORD		ANALYSI	9		1010	
SURFACE ELEV		DATUM	Sprin source of II	IG VALLEY	water	co.	1915	report
DEPTH	ELEV. OF BOTTOM OF STRATUM		MATERIAL		THICK-	SP. YIELD %		
0 - 9		top soil	hard pan- gravel	•	7			
9 - 37		sandy clay	<u>r</u>		28_		<u> </u>	
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LOG OBTAINED BY____

__ DATE

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1	WELL C	-06-	01-2124 H
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DRILLER: 5	ILVA BRUS. 177		
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0-4	_ SAND7 SOIL		
4-18	<u>Y.SAND</u>		and and a second se
18-43	9. SANDY CL	25	ana an mana ana a ang a ang a ana a ana a ana a ana a ang ana ang a ang ang
43-93	G.R.	52	a a da na manana kan jaran kanana kana kana kana mata bana kana kana kana kana kana kana kan
95-125	4. SANDY CL.	30	a na parte a na parte a canada manana na gara a cana bananggan ana mana a na mana a na ana manana a ga ngana
[25-130	<u> </u>	5	an ann a marainn ann ann an an an an ann an an ann an
130-155	BLUE CL.	25	anna naaraan minin aha anaa ahaan kanan dadaan kanaa mininaanaa.
55-175	4. CL.	20	من دور این میداده و معنی در داشته در میدود. این دور این و معنی این و معنی در داری و معنی در مای و میرو می
775-198	GR.	23	n a sanan sa dan sang mananang nasar sa ana an a maga antar ng mang mang mang mang sa karan sa dananang sa kara
198-214	4. SANDY CL.	16	na na ang sa manang sa na na na sa sa na manana sa mamana sa sa sa
214-228	G.R.	14	anna an
228-236	4. CC.	<b>\$</b>	a a na ana ana ana ana ana ana ana ana
236-301	GR.	65	anna anna a sear actain ann a na - a shasa a sa san san s
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na n	ana an anan ang ang kanang ang ang ang ang ang ang ang ang an	nan kana manan manan kanangan kanangan ku kanan manganakan kanan kanan kanan kanan kanan kanan kanan kanan kan	

35/18-16P1 COMMUNICY NO. 1 LOAM .. -Æ, 4 SHOY CLY 16 SAND 3 YELLOWA 7 HDCMT 6 24 CHT. \$2,4 9 1ŝ HD.ChT 16 Ł ⊊ŀ YW.SND.C 11 . <u>72</u> 78 83 CHEGOVICE 6 CRSE GRY 5 1 CHT ORV. 11 _94 .98 CRSE GRY ć. -96 104 106 HO. CHT. (j2 HARD 44 CEMENT È 150 155 CHT. GRV 5 YELANO (LY 20 .175 2.417. CLY 2 177 5豆(Gẩy IANO 10 187 YELLOW CAN 11 198 NDCHT 2 200 CHIT. GRV 20% 6 44494 10 XAUE! 235 5400 DWE CLAY 2.40 YELLOWCZY 246 GRV. & SND 254 YW. CHT.CH 5 259 GRUSSNO 14 273 CHT, GEV 27 ACLAY 300 305 YELLOWCLY 5



35/1E - 16P1  $\mathcal{O}_{\mathbb{Q}}$ 01-1661

25/15

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WELL	600
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JNER:		035/01	6/11/2
DATEDRILL	10: APRIL 9, 194	<u> </u>	analan 🖕 - antana 🥌 k maran ya sa mina ya sa
DRILLER:	SILVA BROS. 177		
CASING 1	4" 12 GAUGE		anna an saon a saon a saona a saona a sa
		and a second a second secon	
			· · · · · · · · · · · · · · · · · · ·
0.2	SANDY SOIL		
2-3	DRY G.R.	ana ann an agus an	
3-8	DARY SOIL	PERFORATIONS:	·····
8-30	SANDY CL.	140-180	are and a consume common point
30-45	\$ 4. 66.		
45-62	G-R,	ак 🕿 - об найма 10 — найман - с., ула арманун — с. шишилл 🖉 - найман — с.	ار میچ بادی مید اند باد استیکی در اندست
62-67	4. CL.		
12-86	G.R.		· · · · · · · · · · · · · · · · · · ·
86-103	Y. CL.		
103-115	GRI		
115-130	Y. CL.		ւս, ու հարցեան երկություն հետ հանցեր տարցեն անգենացրում մինչում։
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181-187	DIRTY CB		y a nana ayan kara a kana a saya aya aya a saya a
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	n ng naganan baran mananan a nganakananan ng mananan nganan ngana ngana ngana ngana ngana ngana ngana ngana nga	a hannan a ga annan bar ba gga sarbah na paraphé ménénan g pa ga dé désahang. Ana ka	
		an a	,
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	an hada ya 🔤 aka ya babanta a na 🗉 ay magamaga shi babana ay a ku ka ka	- state and the state of the st	· · · · · · · · · · · · · · · · · · ·
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## E**‰onMobil**

January 29, 2010

Mr. Jerry T. Wickham Alameda County Health Care Services Agency 1311 Harbor Bay Parkway Alameda, California 94502-6577

Subject: Detailed Well Survey Report Former Mobil Station 04H6J, 1024 Main Street, Pleasanton, California ACHCSA File No. RO-2427

Dear Mr. Wickham:

Attached for your review and comment is a copy of the *Detailed Well Survey Report* for the abovereferenced site. The document, prepared by ETIC Engineering, Inc. of Pleasant Hill, California, is being submitted in response to a letter from the Alameda County Health Care Services Agency dated November 20, 2009.

Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

If you have any questions or comments, please contact me at 510.547.8196.

Sincerely,

Jennifer C. Sedlachek Project Manager

Attachment: ETIC Detailed Well Survey Report

- w/ attachment:
   Mr. Abbas Masjedi Pleasanton Utility Planning
   Mr. Matthew Katen Alameda County Flood Control and Water Conservation District, Zone 7 Water Agency
   Mr. Paul L. Hultne Pleasanton on Main, LLC
   Mount Diablo National Bank
- c: w/o attachment: Mr. Bryan Campbell - ETIC Engineering, Inc.



29 January 2010

Ms. Jennifer C. Sedlachek ExxonMobil Environmental Services Company 4096 Piedmont Avenue #194 Oakland, California 94611

Subject: Detailed Well Survey Report Former Mobil Station 04H6J 1024 Main Street, Pleasanton, California

Dear Ms. Sedlachek:

ETIC Engineering, Inc. (ETIC) has prepared this Detailed Well Survey Report for ExxonMobil Environmental Services Company on behalf of ExxonMobil Oil Corporation for former Mobil Station 04H6J. This report was prepared as part of the closure preparation process and in response to a letter from the Alameda County Health Care Services Agency dated 20 November 2009. A copy of the correspondence is provided in Attachment A.

This report summarizes a search conducted with information from various agencies for water supply wells within a 2,000-foot radius of the site.

### Background

Former Mobil Station 04H6J is located at 1024 Main Street, Pleasanton, California, on the northeast corner of Main Street and Stanley Boulevard (Figures 1 through 3). The site was used as a gasoline service station until 1989 and is currently a vacant lot. The three underground fuel storage tanks (USTs) and an underground used-oil tank were removed in 1989 (Figure 3).

Residential properties are located to the east across a parking lot; railroad tracks are located to the north and single family homes are located across the railroad tracks to the north. Commercial properties are located across Main Street to the west; across Stanley Boulevard to the south is a former Union 76 service station.

The existing groundwater monitoring wells (MW1 through MW8 and MW10 through MW12) and extraction wells (RW1 through RW4 and VMW1 through VMW4) are screened in two water-bearing zones between 5 and 55 feet below ground surface (bgs). The depths to water in the wells vary depending on the screened intervals. In the upper clay/silt unit, the depth to water can vary (a perched zone), and in the lower sand/gravel unit the depth to water is approximately 37 to 44 feet bgs. The groundwater gradient in the sand/gravel unit is generally to the north.

#### Well Search

A search was conducted for public and private wells within a 2,000-foot radius of the site. Wells identified as monitoring wells were not included in this search. The results of this search are based on information from the Zone 7 Water Agency (Zone 7), California Department of Water Resources (DWR), and Environmental Data Resources, Inc. (EDR) records. As part of the well search performed for former Mobil Station 04H6J, an offsite reconnaissance was conducted on 3 December 2009 to ascertain the presence of water supply wells identified in the Zone 7, DWR, and EDR records. The locations of the identified wells are shown on Figure 2. Table 1 summarizes the wells identified within the search radius. A compilation of detailed information for the wells located within the search radius is provided below:

- Three municipal wells owned by the City of Pleasanton were identified in the information from Zone 7: 3S/1E-16L1 (16L1), 3S/1E-16L5 (16L5), and 3S/1E-16L7 (16L7). The locations of these wells are shown on Figure 2. The well logs and construction details from the DWR are provided in Attachment B. Given the relative distance of the wells to the site and the placement of screened intervals, numerous clay layers shown in the well logs (Attachment B) these municipal wells are not expected to be affected by remaining hydrocarbons at the site.
- Four private water wells were identified in the information from Zone 7: 3S/1E-21B2 (21B2), 3S/1E-21B3 (21B3), 3S/1E-21C1 (21C1), and 3S/1E-21C3 (21C3). The locations of these wells are shown on Figure 2. Three of the four wells are reported as abandoned (Table 1). No other information was available for these wells from any other source. None of the wells are located downgradient of the site and they are not expected to be affected by the remaining hydrocarbons at the site.
- Five abandoned supply wells were identified in the information from Zone 7: 3S/1E-16M2 (16M2), 3S/1E-16L10 (16L10), 3S/1E-16L11 (16L11), and 3S/1E-16M1 (16M1) through 3S/1E-16M3 (16M3). The locations of these wells are shown on Figure 2. No other information regarding these wells was available from Zone 7 or any other source. Given the relative distance of the wells to the site these wells are not expected to be affected by the remaining hydrocarbons at the site.

#### Conclusion

Based on the information presented in this well search, the results of the soil vapor sampling, and current site conditions, a review for case closure is requested.

If you have any questions, please contact me at (925) 602-4710 ext. 24.

IONAL GEO Sincerely, BRYAN CAMPBELL No. 7724 281 Fxo Bryan Campbell, P.G. #7724 Senior Geologist OFCAN

Attachments:

- Figure 1: Site Location and Topographic Map
- Figure 2: 2,000-Foot Radius Well Search Map
- Figure 3: Site Map

 Table 1:
 Water Supply Wells Located within 2,000-foot Radius

- Attachments A: Regulatory Correspondence
  - B: Wells Logs and Completion Records

Figures





08/16/06 SRS0806.DWG

**DI ENAME:** 



Tables

Well No.					Well Casing	Saraan				<del>_</del> ,	
on	Well Location			Well Depth	Diameter	Interval	Vear		Wall		
Figure	(Latitude/Longitude)	State Well No	Well Owner	(feet bas)	(inches)	(feet bac)	Tratellad	Wall Lice	Stotas	<b>6</b>	<b>6</b>
16L5	Santa Rita Road and Black	3S/1E-16L5	City of Pleasanton	<u>(1001 0g3)</u> 650	$\frac{(\text{menes})}{12, 18, 30}$	(1000 0gs)		Well Use	Status	Source	<u> </u>
	(-121.871977/37.672196)		City of I leasanton	050	12, 10, 50	220-203	1901	Municipal	Active	Zone 7,	Verified in the field.
	()					2/0-200				DWR, EDR	
						242 240					
						270 288					
						370-300 107 170					
						427-472					
						525 550					
						566 577					
						500-577					
						500-575					
						640 650					
161.1	Canta Dita Davida 1 D1 1					040-050					
IOLI	(121 Santa Kita Koad and Black	35/1E-16L1	City of Pleasanton	152	12	56-136	1945	Municipal	Active	Zone 7,	Verified in the field.
1617	(-121.8/1994/37.6/20/1)									DWR	
IOL/	Santa Rita Road and Black	38/1E-16L7	City of Pleasanton	647	14, 18	165-365	1965	Municipal	Active	Zone 7,	Verified in the field.
	(-121.8/232//3/.6/2/45)					371-647				DWR, EDR	
2101	Vervais Avenue	3S/1E-21C1						Domestic	Active	Zone 7	Not found during
	(-121.873627/37.665175)								_		12/3/2009 offsite visit.
2103	Vervais Avenue	3S/1E-21C3						Domestic	Abandonded	Zone 7	Not found during
	(/)										12/3/2009 offsite visit.
21 <b>B</b> 2	3988 First Street	3S/1E-21B2						Domestic	Abandonded	Zone 7	Not found during
	(-121.866886/37.665374)										12/3/2009 offsite visit.
21 <b>B</b> 3	3988 First Street	3S/1E-21B3						Domestic	Abandonded	Zone 7	Not found during
	_(-121.866833/37.665345)										12/3/2009 offsite visit
16L10		3S/1E-16L10						Supply	Abandonded	Zone 7	Could not be located.
161.11		28/1E 161 11									
		55/1E-10L11	••	-				Supply	Abandonded	Zone 7	Could not be located.
16M1		3S/1E-16M1						Supply	Abandonded	7000 7	Could not be lossed 1
								Suppry	Abandonded	Zone /	Could not be located.
16M2		3S/1E-16M2						Supply	Abandonded	Zone 7	Could not be located.
16M3		38/1F-16M3				<u> </u>					
	<u>    .                                </u>							Supply	Abandonded	Zone 7	Could not be located.

# TABLE 1WATER SUPPLY WELLS LOCATED WITHIN 2,000-FOOT RADIUSFORMER MOBIL STATION 04H6J, 1024 MAIN STREET PLEASANTON, CALIFORNIA

Notes:

DWR Department of Water Resources.

EDR Environmental Data Resources, Inc.

Zone 7 Zone 7 Water Agency.

feet bgs Feet below ground surface.

-- Not reported, not available, could not be determined.

## Attachment A

**Regulatory Correspondence** 

### ALAMEDA COUNTY HEALTH CARE SERVICES

ALEX BRISCOE, Acting Director

S AGENCY

4 H6 J

## RECEIVED

NOV 252009

ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

## **ETIC ENGINEERING**

November 20, 2009

Ms. Jennifer Sedlachek Exxon Mobil 4096 Piedmont, #194 Oakland, CA 94611

Mr. Jack Hounslow Mount Diablo National Bank 156 Diablo Road Danville, CA 94526 Barton and Bonnie Yates Route 4, Box 320 Bonne Terre, MO 63628

Mr. Paul L. Hulme Pleasanton on Main, LLC c/o Alain Pinel 12772 Saratoga Sunnyvale Road, Suite 1000 Saratoga, CA 95070

Subject: Fuel Leak Case No. RO0002427 and Geotracker Global ID T0600100909, Mobil #4H6J, 1024 Main Street, Pleasanton, CA 94566

Dear Ms. Sedlachek, Mr. and Ms. Yates, Mr. Hounslow, and Mr. Hulme:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the abovereferenced site including the most recently submitted document entitled, "Soil Vapor Sampling Report," dated September 25, 2009 (Report). The Report, which was prepared on your behalf by ETIC Engineering, Inc, presents the results of soil vapor sampling conducted in July 2009. Based on the results of the soil vapor sampling and current conditions, the Report requests that the site be reviewed for case closure.

We have initiated the review for case closure and find one item that is required for closure review missing from the case file. We were not able to find a recent detailed well survey. Although we note that Well Completion Report Release requests for the site were submitted for ACEH approval in 2005 and 2006, the results of any well surveys are not in our case files. Therefore, we request that you submit a detailed well survey for the site that meets the requirements described in technical comment 1 below. Groundwater monitoring may be suspended at this time pending the outcome of closure review. We request that you address the technical comment below, perform the proposed work, and send us the reports described below.

#### TECHNICAL COMMENT

1. Detailed Well Survey. In order to identify potential receptors for the fuel hydrocarbon plume from your site, we request that you locate all water supply wells within a radius of 2,000 feet of the subject site. We recommend that you obtain well information from both Zone 7 Water Agency and the State of California Department of Water Resources, at a minimum. Submittal of maps showing the location of all wells identified in your study, and the use of tables to report the data collected as part of your survey are required. Please provide a table that includes the well designation, location, total depth, diameter, screen interval, date of well installation, current status, historic use, and owner of the wells. In addition, please provide well logs and completion records for wells downgradient from the site that are potential receptors. Please present the results in the Detailed Well Survey Report requested below.

Responsible Parties RO0002427 November 20, 2009 Page 3

appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

#### UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

#### AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

If you have any questions, please call me at (510) 567-6791 or send me an electronic mail message at jerry.wickham@acgov.org.

Sincerely,

Jerry Wickham, California PG 3766, CEG 1177, and CHG 297 Senior Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

- cc: Cheryl Dizon, QIC 80201, Zone 7 Water Agency, 100 North Canyons Parkway Livermore, CA 94551
  - Danielle Stefani, Livermore-Pleasanton Fire Department, 3560 Nevada Street, Pleasanton, CA 94566

Bryan Campbell, ETIC Engineering, Inc., 2285 Morello Avenue, Pleasant Hill, CA 94523

Donna Drogos, ACEH Jerry Wickham, ACEH Geotracker, File

#### TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Jerry Wickham), according to the following schedule:

• January 29, 2010 - Detailed Well Survey Report

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

#### ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/cleanup/electronic reporting).

#### PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

#### PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an
Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)	ISSUE DATE: July 5, 2005			
	REVISION DATE: March 27, 2009			
	PREVIOUS REVISIONS: December 16, 2005, October 31, 2005			
SECTION: Miscellaneous Administrative Topics & Procedures	SUBJECT: Electronic Report Upload (ftp) Instructions			

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's fip site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

# REQUIREMENTS

- Entire report including cover letter must be submitted to the ftp site as a single portable document format (PDF) with no password protection. (Please do not submit reports as attachments to electronic mail.)
- It is preferable that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- Signature pages and perjury statements must be included and have either original or electronic signature.
- Do not password protect the document. Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. Documents with password protection will not be accepted.
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention: RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

## Additional Recommendations

A separate copy of the tables in the document should be submitted by e-mail to your Caseworker in Excel format. These are for use by assigned Caseworker only.

## Submission Instructions

- 1) Obtain User Name and Password:
  - a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
    - i) Send an e-mail to <u>dehloptoxic@acgov.org</u>
      - Ог
    - ii) Send a fax on company letterhead to (510) 337-9335, to the attention of My Le Huynh.
  - b) In the subject line of your request, be sure to include "ftp PASSWORD REQUEST" and in the body of your request, include the Contact Information, Site Addresses, and the Case Numbers (RO# available in Geotracker) you will be posting for.
- 2) Upload Files to the ftp Site
  - a) Using Internet Explorer (IE4+), go to <u>ftp://alcoftp1.acgov.org</u>
    - (i) Note: Netscape and Firefox browsers will not open the FTP site.
  - b) Click on File, then on Login As.
  - c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
  - d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
  - e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
  - a) Send email to <u>dehloptoxic@acgov.org</u> notify us that you have placed a report on our ftp site.
  - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
  - c) The subject line of the e-mail must start with the RO# followed by Report Upload. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO# use the street address instead.
  - d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

# Attachment B

Well Logs and Completion Records 3S/1E-16L1 3S/1E-16L5 3S/1E-16L7

35/1E-16 LI~ 01-1652 . ... Parch. 1945 LOG OF WELL FOR SAN FRANCISCO WATER DEPARTMENT Pleasanton, California 195 Warthan DRILLER: Adolph Hummel +HICKNESS 2 5461 63 84 91 55 51 1 51 51 2 Ft. 0 2 5461 63 4 91 55 135 Soll 5272217416 Yellow sandy clay Gravel and sand Yellow olay Gravel, boulders and sand Yellow sandy clay Gravel and sand Yallow clay C CHERTENTEN 151 Ft. Total finished well **(**___) 152 Ft. 12" Double 12 Gauge Casing Water Level 22 Ft. Perforated 56 to 136 Ft. (80 Ft.)  $\mathbf{O}$ 1 4 2 arlin

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(Initi appreziate numor)	·		Other Well No
(1) OWNER:	e 154 - E	(11) WELL LOG:	4
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Pleasanton, California		<u>0 1t. to 1</u> 11	Fill - rocky
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(2) LOCATION OF WELL:	-	<u> </u>	<u>Loam</u>
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R. F. D. or Street No. Approx. 160' N.E. of N	evis St.;25	43 54	<u>Silty red sand</u>
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· ·		<u>. 90 108 </u>	<u>Gravel &amp; sand</u>
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			Gravel and sand
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45 per 11n. 100	Ų	<u>602 "</u>	Yellow gravelly clay
(8) CONSTRUCTION:		<u>602 "; 630 "</u>	Gravel-sand
Wes a surface sanitary seal provided? IN Yes Ti No. To what death	ft.	<u>630 ", 652 "</u>	Yollow gravelly clay
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(9) WATER LEVELS:		WELL DRILLER'S STATEM	IBNT:
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SUST UT FOR		Address 1901 Agest	lington Abreet
(10) WELL TESTS:		Santz Cla	kra, Chlifornia
Wes a pump seit midel XI Yes D No Higes, by whom t C & N	rump & Well	1	1 Am
Yields 2820 gal./min. with 221 fr. draw d	own after 100 hrs.	[SIONED]	Well Driller
Temperature of water Was a shamical analysis soude	0 Y. 171 No		T 7 7

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	WATER WELL D	RILLERS REPORT	Do Not Fill In
File Original; Duplicale and Iripilcale with hit Rectonted System Rost Littion	' (Sections 7076, 707	7, 7078, Water Code)	$N^{\circ} = 40514$
CONTROL BOARD No. 2	STATE OF	CALIFORNIA	State Well No. D. J. L. E. T. B. L. J.
vi afpropriete namber)		700	Other Well No
(I) OWNER:	. '	(11) WELL LOG:	¥* •
NamePleasanton Township Coun	ty Water District	Total depth 685 It. Depth	of completed well 650 ft.
Address P. O. Box 67	, ,	Formations Describe by color, cheseter, size of	of motectal, and structure. O
Pleasanton, Californi	B	1 × 0 1: 10 1 1: 10 F41	1 Pooky
IN LODATION OF WELL PLENS	ANTON WELL	$\begin{bmatrix} -1 & -3 & -501 \\ -2 & -3 & -30 \end{bmatrix}$	.]
(2) LOCATION OF WELL!	N0.5		
R. F. D. or Street No. 4 74 (04 Nr 17)	- A M		the wad ward w
all of Disch former 1001 Pro	- OI NOVIS - Dir 27 -		wil and said wildow
Vood 'm Dluggant on	SE-01 -Serve-ntva		low clay
Between City Well Ala, 4	(on the north E	1-90 108 & Gra	vol & sand [/V] '600
City Well No. 3 ( ON the South	both 151 Deep.		low clay
(3) TYPE OF WORK (check):		1 <del>7 110 132 " Gra</del>	vol and sand
New well Deepening C Record	icioning 🗋 Ábandon 🗋	10 10 10 10 10 10 10 10 10 10 10 10 10 1	low clay
If abandonment, describe material and procedure in I	tem 11.	180 182 V YAT	low clay
(4) PROPOSED USE (check):	(5) EQUIPMENT:	- 182 201 10 Yol	low clay
Domestic 🔲 Industrial 🔲 Municipal 💂	Rotary	1	vol-sand-boulders / 1914
Irrigation [] Test Well [] Other []	Dug Well	220 <u>7 212 - 220 7 Yel</u>	low clay
		$\frac{220}{228}$ $\frac{228}{21}$ $\frac{11}{210}$	e clay & rotton logs Jan
(6) CASING INSTALLED:	It gravel packed	- 200 - 200 - Ura	vel-sand-boulders
	Dismeter from to	200 276 10" 101	TON CIRY
From 0 fr. to 135 fr. to Dism. 1 Will			low clav
$-\frac{325}{18}$	36	13-293 317 24 Gra	vel-sand-boulders /800
(1) <del>22</del>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	- <del>317 - 3.2 23 - Iol</del>	low clay
10 17 18 16 10	11 41	1 <del>4 342 34 (tra</del>	vel-boulders // // ///
n n h h	ıı 4	= 343 370 191.	tow clay
Type and size of shoe or well ring	Size of grovels 4 X 1/B	3-368	And a series of the series of
werbe joint	d joints	1: 521 - 472 - Gra	vel-saud-bouidara i dera
(7) PERFORATIONS:		5 472 495 28 Yel	LOW , WILLY CLAY
Type of perforator used		15 495 . 522 26. Grav	VIL-SEL C. ALTON
Size of perforations	ingling by 1/d ing	<u>= 521 " 535 M " 461.</u>	LOW CI 19
From the fit in 180 - fit to the Peel	per row Rows per ft.	~ 335 500 23 hilue	elay - gritty
<u>201 212 45 per lin</u>	49 EUOD	2 566 - 500 101	LOW CLEY
- 228 265 45 ver lin	- 100t	577 , 388 n , YeT	OW Clay
	100t	1, 588 " 595 7 " Grav	rel-sand
	1000	3 595 602 7 . Yol	low gravelly clay 102
(8) CONSTRUCTION VOI 101 DE	Tauce	11 602 . 630 23 . Grav	/el-sand
Was a surface soultary seat provided? [] Yes [] No To v	that depth ft.	<u>₹ 630652 27 "</u> Yell	low gravelly clay 100
Were any strata teeled against pollution? [] Yes [] No 14	yes, note depth of strate	5 02 - 685 33 . Tigh	it gravelly yellow and 100
<u>from</u> <u>ft. to</u> <u>135</u>	<u>[t</u>		
Method of Scaling	······································	Wheel shared in	er al al al an an an an an an an an
36 to 300 comont	ed to 135'	2-3 62	<u>4-4-</u> 62
(9) WATER LEVELS:	Chinty = 110	WELL DRILLER'S STATEMENT: This well was deilled wadde may turk	distilan and this report is love to the hard -
Depth at which water was first found	Stould' In	my knowledge and belief	
Standing level before perforating (1947 92)	ft.	NAME	.1/ 14
in level after perforating		Address O offettlen, thilling search	Sinhito L.L. LiO . (Typed or printed)
(10) WELL TESTS: SECT Of YA	M	1901 Anstingto	N Struct
Wert pump teit madel [] Yes [] No If yes, by whore).	 A 51 75	Sonta Clara, C	alifomía
Yields X gel./min. with	11. draw down stur	[Siohzd]	Veil Daller
Terapersture 51 Water Was a chamical an	lyile undet 🔲 Yes 'S'No	License No AttArg	Dated19
Was direteic log made of well? [] Yes [] No 5 [] ?	. Cros. 15 × 17 8.	12111 1-th ton drin () Ito	DWA FORM NO. 246 (REV. 3:54)

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35/1E-1665 10 Static \$ 27, 62 13.60 100 NATER ,140°EL"3P.L. 16,01 Deris Ollopt 1234.27.60 110 N 31500 125/14 C=146.7 Yield in operating range: (1500-2500 GPM) 125 GPM / FY 200) 5p. C. 252, 400) 5p. C. 252, 400) 5p. C. 252, 400) 54.6 (281,200) DEP: + 130 140 500 Ø 1500 DRODSCTION 2000 2500 2000 GALLONS NER MINJIE Production test FLEASANTON TWP COUNTY WATER DIST. WELL NO. 5 Ajor 6: B. CAL Remp. Well Co. DRAWDOWN CURVE T. C. BINKLEY CONSULTING ENGINEER PALO ALTO, CALIFORNI DR сн REC °R. 14 11 1625

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BOULDERS VELLOW CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY				78	P-7 62	6.						
VELLOW CLAY CLOY 39 BOULDERS 311 GROVELLY VELLOW 28 CLAY VELLOW 28 CLAY 28 CLAY 28 CLAY 31 TOLIN GRAVIES 24 31 TOLIN GRAVIES 24 3605 TOUT 10 TOLING CLAY 102 TOLING CLAY 102 T		& BOULDERS		88 -		•	-	, ,	÷ -			
BAND BOULDERS 317 VELLOW CLAY CLAY CLAY CLAY CLAY CLAY CLAY CLAY		ALLOW CAN UN	<u>, (j.</u>	YELLOW	18 29	1.			•		-	•
BOULDERS 317 VELLOW VELLOW 28 EVERAV CLAY 28 EVERAV 31 TOLAR GENVOL 345 TIGHT 31 TOLAR GENVOL 35 TOLAR		SAND E	0	24		l •		·. ·	·	· · · .		
VELLOW CLAY CLAY 28 EIGEAV 28 EIGEAV 31 31 31 WELL LOGS WELL LOGS CLAY 3605 31 TOZ CONSULTING ENGINEER PALO ALTO, CALIFORNIA DR. 1TR. ACH. REC. SCALE 7/4 40' 12/28/6/A AFFROVED 7.44 IDWG 340012		BOULDERS	3	17.2	1000000	e	PIEDE	21/201	TWO	CON INCOT	CP DICT	, I .
CLAY CLAY CLAY 31 TOLAY GRAVOU 345 TIGHT 3505 5005 TIGHT 500 TOZ CONSULTING ENGINEER PALO ALTO, CALIFORNIA DR ITR CH. REC. SCALE DATE 700 WR MR 110 112/28/07 APPROVED 7 6 4		YELLOW W	() []	GRAYBLLY. YELLOW		. F		18.191 Ve 33.5	- 1, <b>11</b> 74	WIN VERT	47.14 41 3 A.	
TOLE GENYOU 445 TIGHT 400 702 T.C.BINKLEY SAND 3605 TIGHT AND 702 CONSULTING ENGINEER PALO ALTO, CALIFORNIA DR. ITR. ACH. REC. SCALE DATE 700 WR MILLING 1/4 401 12/28/614 AFFROVED 7.44	<u>۱</u>	CLAY		O E GRAY	31			WE	had be	065	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	).
DR. TR. ACH. REC. SCALE DATE TCO WR 11'+ 40' 12/28/01/2 APPROVED: 7.4		TISHT GENYELS		45 TIGHT		: F		1	CBI	NKLEY		-
DR. TR. CH. REC. SCALE DATE 760 WR 1"+ 40' 12/28/6/ APPROVED' 7 4	<u>j</u> ľ	and the second sec			41AID 702			CON	ULTING		R	
APPRoved The April 12788/01	Ş						DR. ET	R  -\CH	REC.	SCALE	DATE -+	Ĩ
							PEROVED	<u> </u>	<u>191938 191</u> 1925 - 24	177 401	1/2/28/01	94 94 94

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#### ORIGINAL File with DWR

Bya of Intent No. .

#### STATE OF CALIFORNIA THE RESOURCES AGENCY DEPARTMENT OF WATER RESOURCES WATER WELL DRILLERS REPORT

Do not fill in

38/1E 16L5

40514A No.

State Well No. Other Well No. Pleasanton 5 d Permit No. ar Date (1) OWNER: Name City of Pleasanton (12) WELL LOG: Total depth 685 It Completed depth 650 200 Old Bernal Avenue. Address ..... from ft. ft. Furmation (Describe by color, character, size or material) tη zip <u>94566</u> Pleasanton City _ O Fill, rocky. 1 3 _ Soil. (2) LOCATION OF WELL (See instructions): County Alameda 3 _ 18 Loam. ____ Owner's Wall Namber __ Sandy loam. 18 43 Well address if different from above . -11 43 54 16 35 <u>__</u> Silty red sand. Township. . Nange 🕳 Scetton South and east 54 Distance from cities, roads, railroads, fences, etc. South a of Santa Rita Road and Black Avenue ---83 Gravel and sand, loose. 83 90 Yellow clay. 90 108 intersection in Pleasanton, ----Gravel and sand. Yellow, alay 108 110 110 132Gravel, and sand. ---(3) TYPE OF WORK: - 149 132 Yellow clay. New Woll K) Deepening 🛛 149 1/80 Gravel, sand, boulders, -Reconstruction 180 - 201 Yellow_clay. Recordifioning D 201- 212 Gravel; sand, boulders. Horizontal Well 212 - 220 Yellow clay ACK Destruction 🗇 (Describe distruction materials and pro--220---228 Blue clay and rotten logs. AVE ð -4.5 codures in Itom 12) 228、` 265 Gravel, sand, boulders. (4) PROPOSED USE: 265 -278-Yellow clay ם Doutestie ·278 288 Gravel, sand, boulders. ----Irrigation D 288 -293 Yellow clay. Industrial 293 - 317 Gravel, sand, boulders. Test Well ۵ 342 ~ Yellow clay. 16L5 Municipal Ø 342 348. Gravel, boulders. •---Qilior -.-37.0 / 348 Vellow clay. (Describe) WELL LOCATION SKETCH - 388 Gravel, sand, boulders. 370 388, . - 427 Yellow clay. (6) GRAVEL PACK (5) EQUIPMENT: 427. 1.472 Gravel, sand, boulders Cz x 1/8 ้ระเว้ไป พล้งไป้ Rolary KD )leverso D Diamelècol bore See veverse 472 495 Yellow gravelly clay. Calile 🔲 Åle 493 521 Gravel, sand. Packed from -Other Uncket-ſ.ī <u>521</u> 535 Yellow clay. (8) PERPORATIONS 17) CASING INSTALLED. 535 560 Blue clay, gritty. Typa of performition or star of screen Steul K) Plaute () Concrate 560 566 -Yellow clay. Tirom 11 Tof Dia. <∕∕Şlót 566 -577 From Gageor Te, Gravel, sand. łι, ۱, Wall Гł. in. ∕ ſi × slzc 577 588 Yellow clay. -135 3 149 180. 2¹₂×1/8 Ō 30 595 588 Gravel, sand. ---18 201 Û 325 5/16 212  $2\frac{1}{2}x1/8$ 595 602 Yellow gravelly clay. ----325 12 650 Ł See reverse 602 630 Gravel, sand. (9) WELL SEAL: _ 630 652 Yellow gravelly clay. No 🗆 If yus, to depth 0 - 135 ft. Was surface sanitary real provided? Yes 🕅 _ 685 Tight gravelly yellow and 652 Were strate scaled against pollution? Yes 🕅 No 🗍 Interval. blue clay. 30" 36" Method of sealing <u>comented</u> OD. TD 1962 Completed 4 Apr 3 Feb Work storied___ 16<u>62</u> WELL DRILLEN'S STATEMENT: Driller: Berlin Robinson This wall was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. (10) WATER LEVELS: Depth of first water, if known . íL. 88 Standing level after well completion ſı, (11) WELL TESTS: See reverse Signed Original report signed unreadable Burdin II yos, hy whom? <u>Driller</u> Ballor D Atr III C Was wall test made? No 🖸 Yos 🔯 NAME C & N Pump and Well Company Pump 🕅 Type of lest Atr III 🗋 1. drawdown (Perior, Itm, or corporation) (Typud or printed) Address 1901 Washington Street At ond of tast ... argu 2820 gal/min after 100 fours Water temperature . Chamleal analysis maile? Yes 🗋 No 🔯 If yes, by whom? . Cay Santa Clara ZIP . Was electric log made Yes 口 No 🗖 If yes, attach copy to this report Licenso No. 68648 Date of this report 1 Jul 627 IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

DWR 188 (REV, 12-86)

F6 94335

C.

Gravel pack continued:From (ft.)To (ft.)Diameter of bore (in.)01353613565028

### Perforations: continued:

<u>From (ft.)</u>	<u> </u>	Slot_size (in.)
228	265	$2^{1}$ x 1/8
278	288	$2^{1}$ x 1/8
293	317	$2\frac{1}{2} \times 1/8$
342	348	$2^{l_{1}} \times 1/8$
370	388	$2^{1} \le x \ 1/8$
427	472	$2^{1}2 \times 1/8$
495	521	$2^{1} \times 1/8$
535	550	$2\frac{1}{2} \times 1/8$
566	577	$2^{1} \times 1/8$
588	595	$2^{1}2 \times 1/8$
602	630	2-1 x 1/8
640	650	$2 \times 1/8$

45 factory louvers per linear foot.

Well tests continued: Static water level at 98 feet. Discharge (gal./min.) At (ft.)

3120			125
2820			121
2480			119
2390			118
2270	•	Ϊ.	116
1880			113

Report prepared using original C & N Pump and Well Water Well Drillers Report and Zone 7 file information for this well. TNW 9 Nov 90

Stiller Studies

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	35/1	E-16	25			S. C.	14.40		ach	Second Land	
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	ROCKY FILL	man di Q	11	•••••	350	TOP SOIL	CTT.	19.2	TOP 50	14	3 8 Z
	1 3012	X , Y	YELLOW	· 1/85	. 70						1.5
	LOAM	x × × k	A CLAY	VIE	270	' YELLOW	VIA				28
		XXX	GRAVEL	10	370		VISS	52	YELL	ow VIIIS	
	SONDY LARM		IS SAND	Jo:	10	SANDY	VIIE				10
· -		1.X	<i>Ç BOULUEA</i>		388	·			11 · · · · · · · · · · · · · · · · · ·		40.
	SILTY RED SAND PACKED		i. ·		]	CLAY !	VIII.	E.	SANDY.	ERY LAD	52,
			T -YELLOW		39	SAND É GRAVEL	47.7.1. 19 0	66.3	- CLAY & G	es /22 (4) (	38
	GRAVEL		unan an	V//A	. ·	YELLOW CLAY	10	63 -	SANO \$ 4	e AVA 17.74	70
	E SAND -		·•	VIII	427	BOULDERS		21			
	2000	THE B	3	5.0	1	¢ SANO	O V	84			25
	YELLOW CLAY	<u> </u>	Ö GRAVEL	0.0		SANDY CLAY	1228	9/'		6 × 11	95
	ERAVEL .	19.6 7 1	8 SAND &	0,9	45	GRAVEL	<b></b>		SAND LAR	4.4	10
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	\$ SAND	·	275	1/X	472.	SAND	Y		HOULO	EES 0.0	128
	20032		YELLOW		23		100	135	E BOULD		13.50
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		11110	49	4	4.79			151	AND GRI	VAL	1.59
	à QAVEL,	0.0	GRAVEL	19.1	26						- (
	SAND	302 3	si é sand	4	· .						
-	BOULDERS	GW /	PA		521						ļ
	YELLOW GLAY		175 CLAY	VIII.	14						]
	GERVAL & GRITE		r 10 – vet	híú	2233						
	YELLOW CLAY		IN BLUE		25				•		[
	GRAVEL, SAND		S CLAY.	IIIm							· · ]
	BOULDEES.	77.5	4 YELLOW CLAS		566	•					: .
	7222011	2	27 GRAVEL	4.4	11						·
_			VELLOW	·	ι.				_		. 1
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-	SAND C BOULDERS	10° C 3	а 	1.5					•		ļ
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1.1	Carlos and		ES AND	177							
•	YELLOW CLAY.	11/12/2	78		62.6						ł
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	YELLOW CLAY	2	YELLOW	VIA	ſ.			-			1
4	GRAVEL		A CLAY.	VII	37	:	•		• .		: :
	SAND'E RAULDERS		-			· ···· ·•	•••				
•		31	72.	-	665:	PLERS	ANT	ON TW	9. C(), W.	ATER D	157. 💡
· ->-	YELLOW		GRAVELLY		<b>1</b> ( ) -		r		1000	18 18 18	9 3°.
	CLAY .	¥//812	O E GRAY		37			<b>بيد بيد بند</b> د د د د			
	TIGHT GENVELS	((())) = ()	15 TIGHT	-4028	<b>.</b> .'		£ 30	TCB	INKLE	Y · · · '?	i (j
	\$ SAND	ال التيميني			1702		° ° ° °	<b>NAPULTI</b>	C ENGIN	IEER	
Gara de	1 1 1 1 1 1 1 1	S. 3		ſ	1118	··· · · · · · · · · · · · · · · · · ·	<del>ar i</del>	PALO ALTO	- GALIFORI		
	Later States and the second				<i></i>	A SUL NOUT	115,117	CH, ALHEO	NI SGALE		LIG (TR. )

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# STATE OF GALIFORNIA

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ORIGINAL	THE RESOUP	ICES AGENCY	Do not fill in
File with DWR	DEPARTMENT OF V	NATER RESOURCES	1 180.018
	WATER WELL D	RILLERS REPORT	NO. NOBOAA
The of Intent Na			State Well No. 35/1E 16L7
Persoli Nu or Date			Other Wall Ma Pleasanton 6
		Y	
(1) OWNER: Nonia City o	r Pleasanton	(12) WELL LOG: Total de	pth <u>647</u> ft. Completed dopth <u>647</u> (t.
Address 200 01	d Bernal Avenue	from St. to St. Formation (	Describe by color, cliaractor, size or insturial)
City Fleasa	nton	0 - 4 Soil.	<u></u>
(2) LOCATION OF WELL (Se	e Instructions)	4 - 18 Brown	clay.
County Alameda	Owner's Wall Number	18 - 21 Brown	sand and cobbles.
Well oldress if different from above		21 - 47 Grave	1. cobbles and boulders.
Towashin 3S flange	1E Sostion 16	47 - 54 Yello	w clay.
Distance from office roads rolleoads for	North and east	54 - 77 Grave	1. cobles and boulders.
of Santa Rita Road and	Black Avenue	77 - 82 Grav	clay.
intersection in Pleasa	nton.	82 - 92 Blue	Nlav.
- The second sec		92 - 100 Bould	eve and gravel.
	(a) TYPE OF WORK	100 - 104 Xello	wall and gravel.
	New Well IX Deepentry	104 - 106 Bould	era.
114,111	Beconstruction	106 - 109 Small	gravel.
T TIN HILL	WELL Beconditioning	109 - 112 Cobb1	es And gravel.
	Horizontal Well	112 - 113 Gray	alay and grayel.
	• Destruction C (Describe	113 - 125 Grave	and cobbles.
	destruction materials and pro-	125 141 Res 6	184
1 250 SH'	dedures in Ham 12)	141 - 189 Cobb	ds and said
	(4) PROPOSED USE	189 V- 194 Gray	clay V
	Domesile	191 - 194 66bb1	es and sand.
aller to ave	Irrigailon ·	194 ( 199) Brown	Ellay !!
and the second s	Industrial	199 - 202 Blue	站好(joint).
		202 (A) 209 Brown	ciay.
	Municijial 🗸 🖾	209/1 - 2163/ Cobler	es and sand.
	Other []	0218 - 218 Brown	clay and cobbles.
WELL LOCATION SKRTCH	(Peserilino)	818 - 228 Grave	1 and cobbles.
(5) EQUIPMENT	(GL GRAVEL PACK) 3/8	228/2-291 Sandy	brown clay and cobbles.
Rolocy 🛛 Reverse 🖸 🗸	11- XI No 17 - 512 1/8	231 (233 Grave	1 and cobbles.
	Diameterof bore _ SEE TEVETSE	(233) 12 239 Yellor	w brown clay.
Other D Bucket_D	Packed from	1. 239 - 280 Grave;	l and cobbles.
		<u>(280 - 284 Yellow</u>	W brown clay,
(1) CASING INSTALLED;	(8) PERFORATIONS	-284 - 300 Grave	l and cobbles.
Steel (C) Platila LI Controté LI	Type of her location or size of series	<u> 300 - 309 Yellor</u>	v brown clay.
From The Dia Gage or	Tool Tool	<u>309 - 328 Grave</u>	l and cobbles.
11. 11. 16. Wall	It. Att	<u>328 - 338 Yellow</u>	w brown clay.
+2 365 18 5/16	see reverse:>	<u>338 - 342 Grave</u>	l and cobbles.
see reverse		342 - 350 Yellor	v brown clay.
		<u>350 ~ 353 Blue (</u>	clay.
(9) WELL SEAL:		353 - 354 Grave	and applace

Was surface sanitary seal provided? Yus 🔯 No 🗖 If yes, to dojah <u>0 ~ 130 fr.</u> Were strate sealed against pollution? Yes 🗋 No 🖾 Interval. Jt. - Well log continued on reverse cement grout Mathod of scaling . Work started 18 Feb. 1965 Completed 11 May (10) WATER LEVELS: WELL DRILLER'S STATEMENT: 78 Depth of first water, if known . ſ١. This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief. Standing lovel after well completion . łt. (11) WELL TESTS: Anderson Pump Co. Signeri <u>Original report signed Bill Belknap</u> (Veli Dilkor) Was woll tost made? Yes X Pump X If yes, by whom? Chosechills Reller C Airlift אא 🖸 Type of test Mrlift 🗋 NAME B111 Belknap (Person firm, or corporation) (Typed or printed) Addrass 92.74 South Buttonw1110w <u>икикихик 28</u> drawdown Al and of lest _ ľι, nga 3052. gal/min alter . Water temporature . hours City ___Reedley Chemical analysis made? Yes D No 🖾 If yes, by whom? 21P Was electric log maile Yes 🗖 No 🕅 License No. __106833 <u>10 May 65</u> If yes, attach copy to this report Date of this report _ IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM DWR 188 (REV. 12-86)

1065

# 110882A

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38/1E 16L7

Well log c	ontinued			•
from (ft.)	to (ft.)	Form	uation'	
354	365	Blue clay		
365	369	Brown cla	• •	
360	372	Bouldorg	and alow	
372	302	Brown old	and Cray.	
393	202	Provil CIA	uy,	
202	200	boulders.		
100	404	Sang and	gravel, some	boulders.
404	433	PLOMU CTS	y,	
433	4/1	CODD Les.	<b>-</b>	
474	4/4	Tettow pr	own clay.	
474	400	Sand and	gravel and co	bbles.
488	508	Jetton pr	own clay.	
508	513	Sand and	gravel, some	cobbles.
513	521	Yellow br	fown clay.	
521	532	Gravel an	id cobbles.	
532	540	Yellow br	own clay.	•
540	549	Gray clay	/ (jointy).	
549	582	Blue clay	1.	•
.582	584	Gravel.		
584	586	Yellow br	rown clay.	
586	609	Gravel an	d cobbles	•
609	611	Grav clay	· · · · · · · · · · · · · · · · ·	
611	627	Gravel an	d bowlders.	•
627	636	Grav clay		
636	640 1	Gravel.	•	
640	647	Brown els	iv.	
040	047	DEORIC CAL	- <b>j</b> •	
Gravel and	. Aontinuodi			
from (fr )	$\sim$	Diamatar of h	oro (in )	
	120	JTANGLEL OF D		•
120	130			•
130	047	20		
<b>.</b>				
Casing inst	alled contin	uea: Dianahan (du	, , , , , , , , , , , , , , , , , , , ,	، ۲. 1 ٦
<u>from (1t.)</u>	<u>to (it.)</u>	Diameter (in.	) Gage or P	all
365	3/1	18 CO 14 Cape	r 5/1/	
	625	14	5/10	
	647	14 OD	1/4	
Band Shoe				
Perforation	ns:		· .	
from (ft.)		<u>Slot size</u> P	erfs per row	Туре
165	365	$2^{1}2 \times 1/8$	12	louvered
371	625	2¼ x 1/8	8	· louvered
625	647	2 ¹ ₂ x 1/8	14	saw
4 rows of	perforation	. 4 rows per foo	t.	
	•			
		Informat	ion from origi	lnal Bill
		Relknan	Water Well Dr	llera
		Renort		
	C L . I		រោជ 1	2 Oct 90
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ų	ORIGINAL File Original, Duplicate and Triplicate with the REGIONAL WATER POLLUTION	PRILLERS REPORT Do Not Fill In 2000
ŕ	CONTROL, BOARD No. 2 THE RESOURCES AG	ENCY OF CALIFORNIA. State Well No.
Ý	I) OWNER:	(11) WELL LOG:
	Name Pleasanton Township County-Water-District	Tetal depth 6007 il - to Truck of Low build will 625
	Address	Formations Describer by colors character describer of bestered with O2. J
	Di on gouten dollé Count a	0 fc. to 4 ft, 5011
	Pleasancon, valifornia	4 and 18: Brown clay
	(2) LOCATION OF WELL:	18 " 216 " Brown sand add cobbles .
	County Alameda Owner's number, if any- 6	21 " 47. " Gravel: cobbles & boulders
	R. F. D. or Street No.	47 54 Yellow clay
	East side of Santa Rita Road about 80' north	27 " 90 " Gravel, cobbles & boulders
	Of driveway to Alisal Elementary School,	82 " 92 " Blue allow
	Tract 2505. Amedon Estatos. Unit #1	92 " 100 "Boulders and grant
	ALLOW LOVER AND ALLOW AND	100 " 1041" Yellow stilt & gravel
	(3) TYPE OF WORK (check):	104 " 106 " Boulders
	New Well M Deepening Meconditioning Abandon	<u>106 "109 "Small gravel</u>
	1) abunnonment, assente material ena procedure in 15m 11.	<u>109</u> <u>112 Cobbles and gravel</u>
	(4) PROPOSED USE (check): (5) EQUIPMENT:	112 " 113 " Grev clay and gravel
	Domestic Lindustrial Li Municipal X Cable	125 " 122 " Gravel and copples
	Irrigation [] Test Well [] Other [] Dug Well []	141 " 189 · " Cobblas and canfl
		189 " 191 " Grev clav
		191 " 194 " Cobbles and sand
	From (, ) for the former from the former former for the former former for the former former former for the former former former former for the former	<u>194 " 199 " Brown glay</u>
U	p * 2 * 365 * 18 ⁹ * 5/16 *	<u>199 " 202 " Blue clay (joild)</u>
Ň	365 " 371 " 18"" to 14" taper " "	202 <u>209 Brown olay</u>
	371 " 625 " 14"" 5/16 " 36" 0" 130 "	216 " 218 " Cobbles and sand
	625 · 647 · 14"· 0D 1/4· 28" 130 · 647 ·	218 " 228 " Gravel and cooples
	<u> </u>	228 " 231 " Sandy brown alay & cobbleg
	Type and size of shoe or well ring Band   Size of gravel: 3/8 x 1/8	231 " 233 " Gravel and cobbles
		233 " 239 " Yellow-brown clay
	(7) PERFORATIONS:	239 " 280 " Gravel and cobbles
	Type of performer and Louvers, except 625-6471 mere sam	280 " 284 " Yellow brown clay
·	Size of perforations 23 In., length, by 1/8 In.	284 300 Gravel and cobbles
	From ft. to ft. Petf. pie tow Rows per ft.	300 " 309 " fellow brown clay
	<u>" 165 " 365 " 12 " " 4 " " "</u>	328 " 338 " Vollout byown of the
	<u> </u>	338 "
		342 " 350 " Yellow brown clay
		<u>350 " 353 " Blue clay</u>
	(8) CONSTRUCTION:	353 "354 "Gravel and cobbles
	Was a surface conterry seal provided? A Yes D No To what depth 130 ft.	<u>304 " 365 " Blue clav</u>
	Were any strata realed against gollarion? [ Yes XI No If yes, note depth of strata	360 " 372 " Pouldong and allow
	From ft. to ft.	372 " 383 " Brown allow
	The state of the s	(cont. on reverse)
	Method of Sealing Cement grout	Work started 2/18/65 19 , Completed - 5/47.765 19
	(9) WATER LEVELS:	WELL DRILLER'S STATEMENT:
	Depth at which water was first found 17Q for	This well was drilled under my jurisdiction and this report is true to the best of
	Standing Jerei before perforating ft.	my knowledge and belief.
1	tiling layed after perforating fr.	NAME BILL BOLKNAD
Υ.		Address 9274 So. Buttonvillow
	(10) WELL TESTSI Anderson Pump Co.	Reedley, California
	Was a pump test made? KI Yes I No If yes, by whom? Chowohilla, Calif.	[STONED] _ Bill Bal Barran Wh
	Temperature of water Was advantation of the Way and the Mrs.	Vil Driller Planter
	Was s consults analysis mader [] Ity [] No	License No. 100055 Dated Dated 19
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	11.	WELL LO	G:	Ţ	•	C	1108	82	•
	383 386 404 435 471 474 488 508 513	386 404 435 471 474 488 508 513 521	Boulders Sand and gray Brown clay Cobbles Yellow brown Sand and gray Yellow brown Sand and gray Yellow brown	vel; some clay vel and co clay vel; some clay	boulder bbles cobbles	5	n ann an an ann an an an an an an an an	t : trans.	
	521 532	532 . 540	Gravel and or Yellow brown	obbles clav	•	•		• •	
	540 549 582 584 586 609	549 582 584 586 609	Grey, clay (jo Blue clay Gravel Yellow brown Gravel and co Grey clay	claý obblés		್ರಾಂಗ್ ರಿವರ್ಷಕ್ರಿ ಕ್ರಾಮಿಸ್ಥಾನ ಮುಂದಿ ಸಂಗಿತ್ ಕ್ರಾಮಿಸ್ಥಾನ ವಿಶೇಷ ಕ್ರಾಮಿಸ್ಥಾನ	e a yn er e	2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000 - 2000	
	611	627	Gravel and be	oulders	so I			÷	
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	640	647 .	Brown clay	· · -	амы ** *	·			
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