

**WORK PLAN FOR
SOIL AND GROUNDWATER INVESTIGATION**

**ABE Petroleum LLC
17715 Mission Boulevard
Hayward, California 94541**

**Prepared for
Mr. Paul Garg
ABE Petroleum**

**Prepared by
Sierra Environmental, Inc.**

**May 27, 2003
Project 03-103.06**



Sierra Environmental, Inc.
Environmental Consultants

May 27, 2003
Project 03-103.06

Mr. Paul Garg
ABE Petroleum LLC
33090 Mission Boulevard
Union City, California 94587

Subject: Work Plan for Soil and Groundwater Investigation, 17715 Mission Boulevard, Hayward, California

Dear Mr. Garg:

Sierra Environmental, Inc. (Sierra) is pleased to present this work plan describing our proposed soil and water investigation (SWI) work for the subject property, hereafter, referred to as Site. Site location is shown in Figures 1. The proposed SWI was requested by the Alameda County Health Care Services (ACHCS) in letters dated February 27, 2003.

OBJECTIVE

The objective of the SWI is to identify conduit/preferential pathways, identify sensitive receptors, study previous and present soil and groundwater information for the Site, and perform soil and groundwater investigation, near the Site, to delineate vertical and horizontal extent of the gasoline constituents in groundwater originated from the Site.

980 W. Taylor Street
San Jose, CA 95126
Phone (408) 971-6758
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BACKGROUND

Please refer to Appendix A for background information for the Site.

Well and Sensitive Receptor Survey Activities

On May 14 and 15, 2003, Sierra visited the Site and its neighboring properties to observe land use practices near the Site. During the same period, Sierra visited City of Hayward Department of Public Works (HDPW), Alameda County Department of Public Works (ACDPW), East Bay Municipal District (EBMUD), and Oro Loma Sanitary District (OLSD) to obtain information regarding the underground utility trenches. According to EBMUD representative, water line trenches are approximately 3 to 4 feet deep. Representative of OLSD indicated that the sewer lines in the area are old and there is no accurate information regarding their depths. However, he indicated that the trenches are about 3-20 feet deep. Telephone and electrical power lines are above ground. Copies of plans showing utility trenches are presented in Appendix B.

To identify sensitive receptors and water wells near the Site, Sierra obtained a "Off-site Receptor" and a "Geocheck®" report from Environmental Data Resources, Inc. (EDR). The receptor report identified 5 day care centers, 4 nursing homes 17 schools, and 2 colleges within one mile radius of the Site. The closest receptor to the Site is Kaiser permanente clinic located within 1/4 to 1/2 mile northwest of the Site. A copy of the EDR report is presented in Appendix C.

The Geocheck report indicates that the Site is approximately 64 feet above mean sea level (MSL) and groundwater direction in the general area is west/northwest. No water well was identified in the State Database Well Information or Federal Public Water Supply System Information. Two water wells were identified under Federal USGS Well Information. One identified approximately 1/4 to 1/2 mile southwest of the Site. The second one identified within 1/2 to 1 mile west/southwest of the Site. A copy of the Geocheck report is also presented in Appendix C.

On May 23, 2003, Sierra's representative performed a reconnaissance drive within 1-mile radius of the Site. A vacant property, east and at hydraulic up-gradient of the Site, located at 19200 Mission Boulevard appeared to have been investigated for groundwater quality. Several groundwater monitoring wells were observed at this property. Notes on the drums containing drill cuttings suggested that the wells were constructed in April 2003 at the property.

Sierra's representative also tried to locate the wells identified by Geocheck report. The report shows the wells along Mattox Road, south of the Site. This area has been developed with residential buildings, and it is along San Lorenzo Creek/Flood Control

Canal. Sierra's representative did not observe any structure suggesting presence of water well in the visited area. The area is connected to the City water.

GEOLOGY AND HYDROGEOLOGY

The Site is located on the corner of Mission Boulevard and E. Lewelling Boulevard. It is situated within 5 miles east of San Francisco Bay. San Lorenzo Creek is approximately 1/4-mile south of the Site.

According to Soil Conservation Services STATSGO data of Geocheck report the following soil types are recorded for general area near the Site:

Surfacial Soil Type: Loam
 Silty Clay
 Clay
 Clay Loam
 Extremely gravelly Sand

Shallow Soil Types: Loam
 Silty Clay Loam
 Clay
 Clay Loam
 Extremely Gravelly Sand

Deeper Soil Type: Stratified
 Clay
 Silty Clay Loam
 Sandy Clay Loam
 Extremely Gravelly Sand

Boring logs for MW1 located at the Site document the following soil types:

0-29' Dark Brown Clayey Silt/Clayey Silty Sand
29'-35' Green Silty Sandy Clay

Shallow groundwater was first encountered in MW1 at approximately 32 feet bgs, and it raised to approximately 22 feet bgs suggesting the shallow aquifer beneath and near the Site may be under semi-confined condition. Groundwater flow direction at the Site has been recorded to be toward west/northwest with an approximate gradient of 0.01 ft/ft.

Considering the depth of the saturated zone being approximately 30 feet bgs, it is unlikely that any man made conduit (i.e. utility trenches) act as preferential pathway for the contaminated groundwater beneath the Site. The identified wells are down/cross-gradient of the Site.

PROPOSED SOIL AND GROUNDWATER INVESTIGATION

In order to determine the lateral extent of the groundwater plume originated from the Site, Sierra proposes to advance 6 soil borings to reach shallow groundwater, and convert them 2-inch-diameter groundwater monitoring wells. To assess the vertical extent of the groundwater contamination, Sierra proposes to advance one soil boring to reach the second aquifer (B Zone), and convert it to a 2-inch diameter groundwater monitoring well.

Sierra will perform its services in accordance with the following tasks:

Task 1 - PREFIELD ACTIVITIES

After approval of the work plan by the ACHCS, Sierra will submit appropriate well and borehole construction permit applications, and pay required fees to Alameda County Public Works Agency (ACPWA). Sierra will obtain encroachment permits for drilling the off-site soil borings from City of Hayward, EBMUD, and Site's neighboring property owner. Sierra may need the ACHCS's assistance in obtaining the encroachment permits from the private properties near the Site, because the property owners may not be cooperative. Sierra will prepare a health and safety plan for its employees and sub contractors. Sierra will mark the boring locations. Sierra will notify Underground Services Alert (USA) to identify all the utilities, and clear the sampling locations. Sierra also will coordinate with a state-licensed drilling contractor, a state-certified analytical laboratory, and the client to start the field activities. Sierra will prepare necessary field equipment and material before starting the drilling activities.

Task 2 - DRILLING AND SAMPLING ACTIVITIES

Shallow groundwater (A Zone) level at and near the Site is approximately 30 feet bgs. Sierra anticipates that the thickness of the A zone is approximately 10 feet thick.

Sierra will retain a California-certified drilling contractor to perform the drilling activities.

A Zone Exploration

Sierra will advance 6 off-site soil borings and convert them to shallow groundwater monitoring well MW4 through MW9. Figure 2 shows the proposed groundwater monitoring well locations. Sierra proposes to collect continuous soil samples from MW4, MW5, and MW6 using a 3-inch diameter, 5 feet long sampling equipment (Figure 2) for field observation and logging, and photoionization detector (PID) screening.

The location of the monitoring wells are selected to assess groundwater quality down, cross, and up-gradient of the Site, and to identify not detected (ND) zone for chemical of concern (COC), benzene and methyl tertiary butyl ether (MTBE) in particular.

Clean continuous fly hollow stem augers will be used for the drilling. Except for MW4 through MW6, which will be continuously sampled, soil samples will be collected from the remaining borings/wells at 3.5-foot intervals, starting at 3.5 feet bgs, and at lithologic changes down to the bottom of the borings/wells.

Soil samples will be collected using a California standard split spoon sampler lined with 3 clean 6-inch long brass rings. After collection, the samples will be screened with photoionization detector (PID) for volatile petroleum hydrocarbons, unusual odor, and physical appearance. Soil samples with detectable PID reading or odor will be sealed with Teflon[®] tape and plastic end caps, labeled, placed on ice pending groundwater sampling. After collecting the soil samples, Sierra will collect one grab groundwater sample from each boring.

Sierra will place the drill cuttings in 55-gallon drums and place the drums at a designated area at the Site for proper disposal.

All drilling and sampling equipment will be washed with Liqui-Nox[®] (a phosphate-free laboratory detergent) and rinsed with clean tap water at each sampling interval.

B Zone Exploration

Sierra will drill soil-boring B1 (see Figure 2) to approximately 80 feet below ground surface (bgs) at hydraulic down-gradient of the former UST complex (source) at the Site. If a second aquifer (B Zone) will be encountered within this depth, Sierra will convert B1 to a 2-inch- diameter groundwater monitoring well MW10. If not, the boring will be terminated and sealed at this

depth. If groundwater will not be encountered in B1, field observations will confirm that a buffer zone approximately 40 feet thick separates the A Zone from B Zone. Therefore, vertical migration of COC between the Zones is unlikely.

Groundwater Monitoring Well Construction

A Zone: Sierra will convert six of the borings to 2-inch diameter groundwater wells (MW4 through MW9) to monitor the groundwater at A Zone. The exact depths of the wells will be determined in the field (approximately 30-40 feet). Before the drilling activity starts, Sierra will notify ACHCS, and all other agencies representatives to observe the completion of the well construction. Sierra will also notify private property owners whom authorized Sierra to drill at their properties.

Sierra will use 2-inch diameter schedule 40 PVC solid and slotted casings to construct the wells. The slotted section of the wells will not be longer than 10 feet. The slotted casing will be packed with clean sand. Bentonite pellets will be used as spacer to seal top of the sand pack. Sierra will have the annular spaces of the wells sealed with Portland cement.

B Zone: Sierra will utilize clean 8-inch diameter continuous fly hollow stem augers to drill the deeper soil boring (B1). "O" rings will be used at each 5-foot section auger to seal auger connections. If a second aquifer is encountered, Sierra will install a 10-foot slotted section 2-inch diameter schedule 40 PVC and place sand pack around it, and convert the boring to monitoring well MW10. Sierra will seal the well with Bentonite pellet/chip from top of the sand to top of the A Zone. Portland cement will be used to seal remaining annular space.

Expansion locking caps and 8-inch diameter manholes will be used to secure the well heads. At least 72 hours, after construction, Sierra will develop the wells to clean and stabilize the sand and aquifer material around the slotted section of the well, and at minimum 48 hours later will purge and sample the wells. Before collecting samples, Sierra will measure water level, pH, conductivity, temperature, and turbidity of water at each well.

The water extracted from the wells during the well development and purging activities will be transferred to 55-gallon drums and stored at the Site for proper disposal.

Sierra will collect groundwater samples using a clean bailer. After collection, the groundwater will be transferred into appropriate clean containers supplied by the laboratory with as little agitation as possible. The containers

will be sealed, labeled, and placed in a cooler to be delivered to the laboratory with the chain-of-custody documentation.

The wellheads will be surveyed for horizontal and vertical controls using global positioning system. The survey results will be transmitted electronically to the State Water Resources Control Board (SWRCB) GeoTracker website.

Task 3 - CHEMICAL ANALYSIS

Soil (if any) and groundwater samples will be analyzed for TPHG using United State Environmental Protection Agency (EPA) modified method 8015, and for benzene, toluene, ethylbenzene, and xylenes (BTEX) using EPA method 8020. The groundwater samples will also be analyzed for fuel oxygenates using EPA method 8260B.

Task 4 - REPORT PREPARATION AND SUBMITTAL

Sierra will prepare a technical report documenting the followings:

- A summary of site background and history,
- A description of the field activities,
- Copies of all permits,
- Tabulated historical and recent soil and groundwater data,
- Boring logs,
- Certified analytical reports and chain-of-custody documents,
- A geologic cross-section
- A groundwater contour map,
- Dissolved-phase iso-concentration maps for TPHG, benzene, and MTBE,
- Conclusions and recommendations

Sierra will submit copies of the report to the client and representative of ACHCS.

WORK SCHEDULE

Sierra will perform the proposed work upon approval of this work plan by ACHCS. A report will be submitted approximately six weeks after the completion of all the field works.

Please feel welcome to call us if you have questions.

Very Truly Yours,
Sierra Environmental, Inc.



Reza Baradaran, PE, GE
Principal

A handwritten signature in black ink, appearing to read 'Mitch Hajiaghai'.

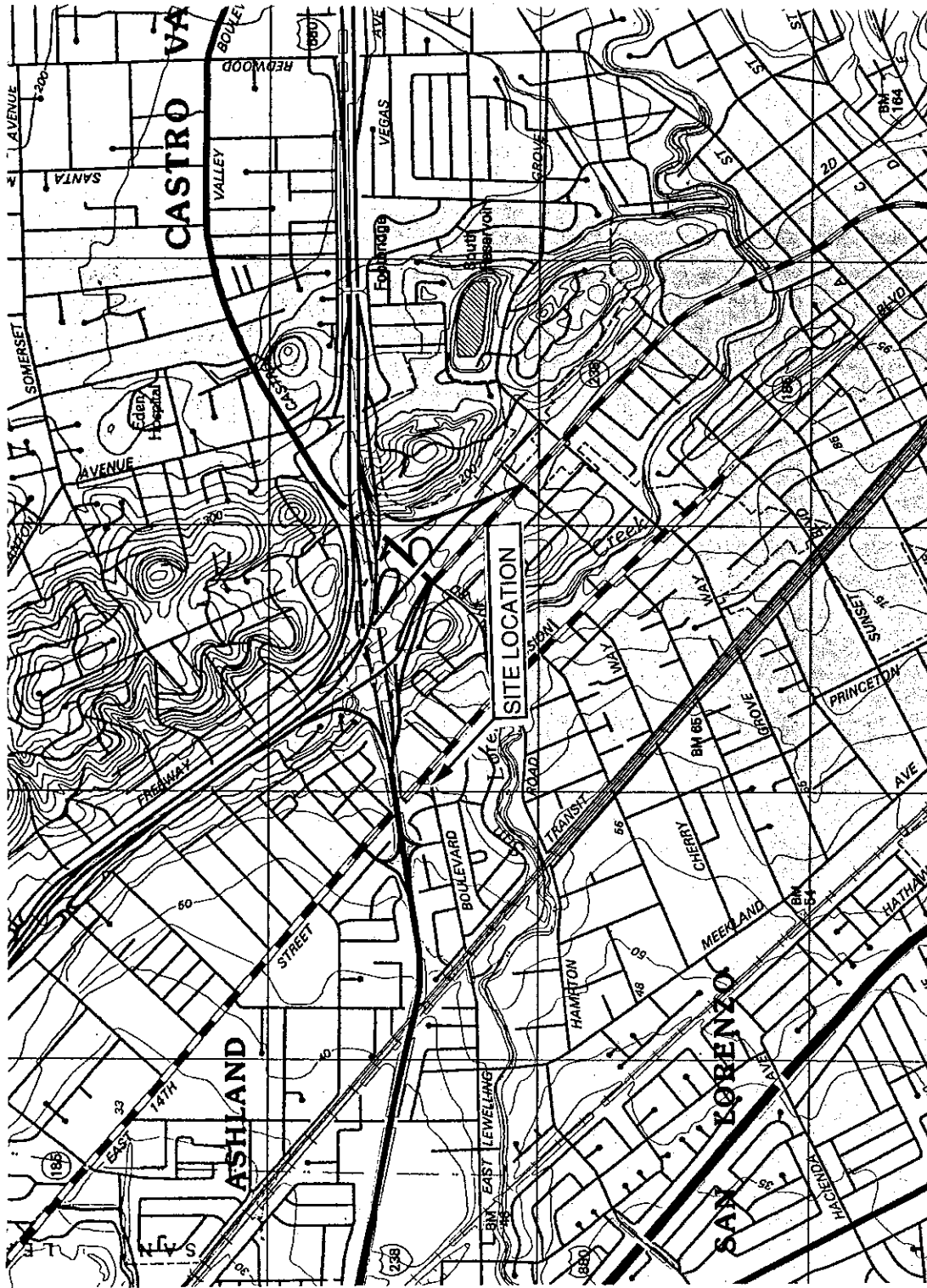
Mitch Hajiaghai, REA II, CAC
Principal

Attachments:

- Figure 1 - Site Location Map
- Figure 2 - Expanded Site Plan
- Appendix A - Background
- Appendix B - Plans Showing Utility Trenches
- Appendix C - EDR Receptor & Geocheck Reports

cc: Mr. Scott O. Seery, ACHCS (1 Copy)

W03-103.06\SWIMMH05272003



Source: Hayward Quadrangle, California, 7.5-Minute Series (Topographic)

0' 1,000' 2,000'



SIERRA ENVIRONMENTAL, INC.
Environmental Consultants

980 W. Taylor St. San Jose, CA 95128
Phone [408]971-6758 • Fax [408] 971-6759

SITE LOCATION MAP

Soil and Groundwater Investigation
ABE Petroleum LLC

17715 Mission Boulevard • Hayward • California

FIGURE



1

May 27, 2003

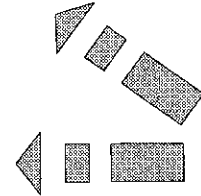
Project 02-103.06



LEGEND

-  MW1 Existing Groundwater Monitoring Well Location and Designation
-  MW4 Proposed Groundwater Monitoring Well Location and Designation

IT



Groundwater Flow Direction

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19200 Mission

9555 Mission

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980 W. Taylor
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FIGURE

2

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Appendix A
BACKGROUND

On September 16, 1997, Balch Petroleum Contractors & Builders, Inc. (Balch) of Milpitas, California, removed one 2,000-gallon, two 6,000-gallon, one 10,000-gallon single-wall steel gasoline, and one 500-gallon single-wall steel waste oil USTs from the Site. Former UST locations are shown in Figure A. No hole or damage was observed in the tanks. No groundwater was encountered in the tank excavations. After UST removal, Sierra collected soil samples from the tank excavations for chemical analysis.

Up to 2,300 parts per million (ppm) total petroleum hydrocarbons as gasoline (TPHG) was detected in the soil samples collected from beneath the tanks at approximately 14 feet below ground surface (bgs). The soil sample locations are shown in Figure A.

On August 14, 2000, Sierra drilled three exploratory borings and converted them to groundwater monitoring well MW1 through MW3. The wells are approximately 35 feet deep. Sierra collected soil and groundwater samples from the borings/wells for chemical analysis. The analytical results showed up to 720 ppm TPHG, 2.2 ppm benzene, and 3.4 ppm MTBE in the soil samples. Up to 290000 ppb TPHG, 10000 ppb benzene, and 4300 ppb MTBE were detected in the groundwater samples. Gasoline constituents were detected in groundwater samples collected from all three monitoring wells. Well locations are shown in Figure B.

On March 30, 2001, Sierra performed first quarter 2001 groundwater monitoring at the Site. The field and analytical results are presented in Table I and II. Groundwater was measured at approximately 20 to 21 feet from top of the well casing (TOC) at the Site with a northwesterly flow direction.

On June 22, 2001, Sierra performed second quarter 2001 groundwater monitoring at the Site. Groundwater levels were measured at approximately 22 to 23 feet below TOC with a northwesterly flow direction during this monitoring event.

On September 20, 2001, Sierra performed third quarter 2001 groundwater monitoring at the Site. Depth of groundwater was measured to the TOC. Groundwater levels were measured at approximately 24 to 25 feet below TOC with a northwesterly flow direction during this monitoring event.

On December 27, 2001, Sierra performed fourth quarter 2001 groundwater monitoring at the Site. Depth of groundwater was measured to the TOC. Groundwater levels were measured at approximately 22.59 to 23.82 feet below TOC with a northwesterly flow direction during this monitoring event.

On September 24, 2002, Sierra performed third quarter 2002 groundwater monitoring at the Site. Depth of groundwater was measured to the TOC. Groundwater levels were measured at approximately 23.69 to 24.89 feet below TOC with a northwesterly flow direction during this monitoring event.

On December 17, 2002, Sierra performed fourth quarter 2002 groundwater monitoring at the Site. Depth of groundwater was measured to the TOC. Groundwater levels were measured at approximately 22.75 to 23.99 feet below TOC with a northwesterly flow direction during this monitoring event.

On April 2, 2003, Sierra performed the first quarter 2003 groundwater monitoring at the Site. Groundwater flow was measured to be toward west during this monitoring event. Copies of a report documenting the monitoring results were submitted to the client and ACHCS on April 18, 2003.

Historical groundwater elevation and analytical data are presented in Table I and Table II, respectively.

**TABLE I
GROUNDWATER ELEVATION DATA**

Well ID	Measurement Date	Well Casing Diameter (in)	Well Casing Elevation (ft)	Depth to Water ¹ (ft)	Water Table ² Elevation (ft)
MW1	8-18-00	2	99.46	20.32	79.14
	3-30-01			20.30	79.16
	6-22-01			21.91	77.55
	9-20-01			23.56	75.90
	12-27-01			22.59	76.87
	9-24-02			23.69	75.77
	12-17-02			22.75	76.71
	4-2-03			21.15	78.31
MW2	8-18-00	2	100.58	21.55	79.03
	3-30-01			21.55	79.03
	6-22-01			23.15	77.43
	9-20-01			24.78	75.80
	12-27-01			23.82	76.76
	9-24-02			24.89	75.69
	12-17-02			23.99	76.59
	4-2-03			22.32	78.26
MW3	8-18-00	2	99.69	20.68	79.01
	3-30-01			20.68	79.01
	6-22-01			22.31	77.38
	9-20-01			23.92	75.77
	12-27-01			22.95	76.74
	9-24-02			24.03	75.66
	12-17-02			23.09	76.60
	4-2-03			21.46	78.23

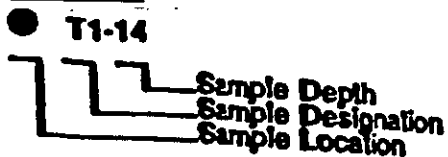
1. Depths to groundwater were measured to the top of the well casings
2. Water table elevations were measured in relation to an assumed datum (100') relative elevation

**TABLE II
ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES**

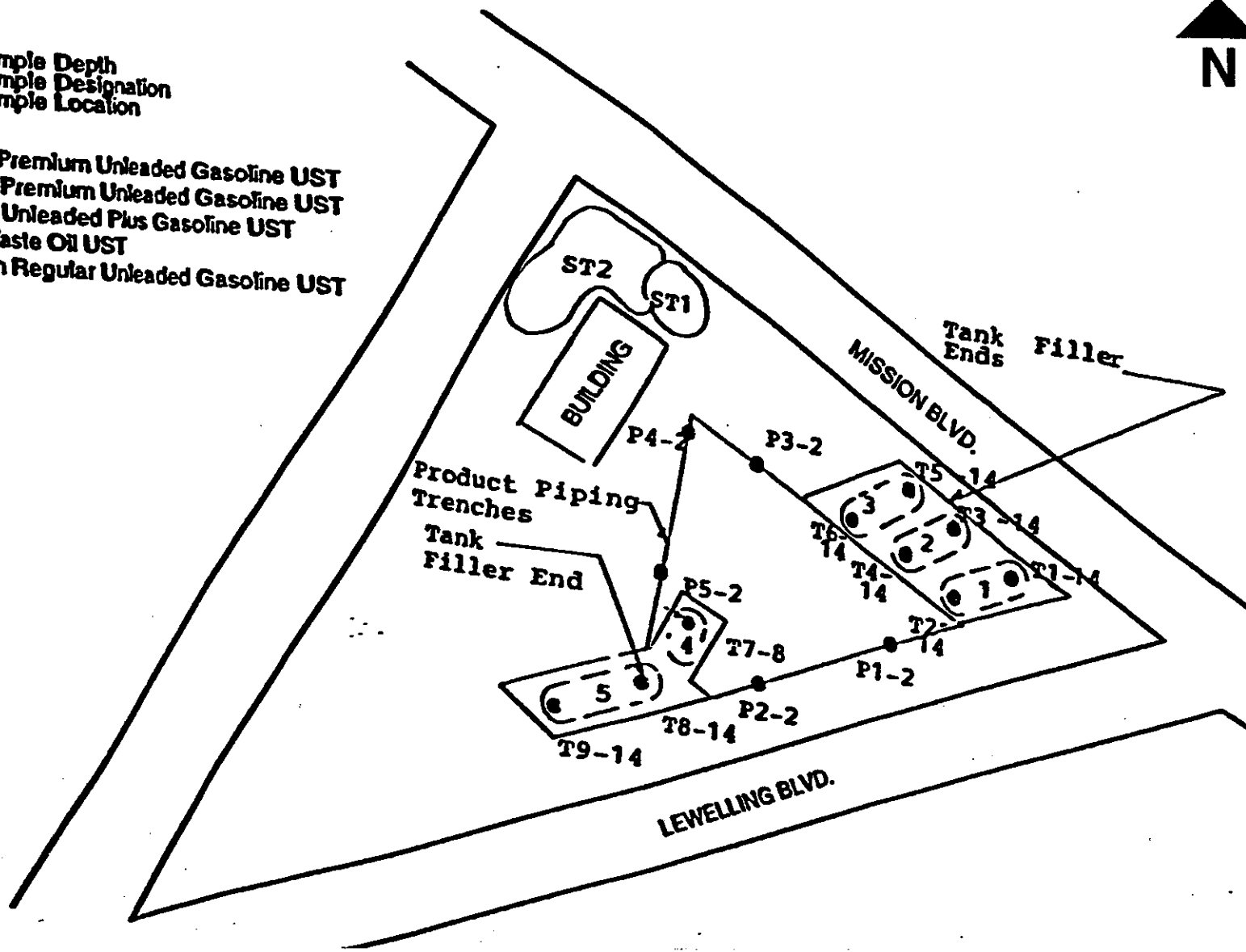
Sample ID	Sample Date	Sample Location	TPHG ¹ ppb ³	Benzene ppb	Toluene ppb	Ethylbenzene ppb	Xylenes ppb	MTBE ² ppb
MW-1	8-18-00	MW1	280,000	10,000	16,000	11,000	49,000	4,000
*	3-30-01		98,000	8,600	14,000	6,300	26,000	7,600
*	6-22-01		110,000	7,500	12,000	5,700	24,000	3,800
*	9-20-01		93,000	8,700	11,000	6,300	27,000	4,600
*	12-27-01		140,000	7,700	11,000	6,500	28,000	7,700
*	9-24-02		110,000	4,600	4,000	4,000	18,000	3,400
*	12-17-02		110,000	6,600	6,700	5,400	23,000	2,900
*	4-2-03		89,000	4,800	6,000	4,600	20,000	5,900
MW-2	8-18-00	MW2	290,000	3700	990	7,300	26,000	ND ⁴
*	3-30-01		47,000	3,200	470	4,500	13,000	3,100
*	6-22-01		57,000	2,500	350	4,200	12,000	1,800
*	9-20-01		42,000	2,300	230	4,300	12,000	2,200
*	12-27-01		70,000	2,900	390	4,800	14,000	2,400
*	9-24-02		110,000	1,600	200	3,400	9,100	2,500
*	12-17-02		66,000	2,400	340	4,600	13,000	1,900
*	4-2-03		29,000	1,000	130	2,300	5,100	2,000
MW-3	8-18-00	MW3	46,000	3,200	550	3,700	14,000	2,200
*	3-30-01		30,000	3,300	340	2,800	9,100	4,700
*	6-22-01		35,000	4,000	340	2,900	7,600	4,100
*	9-20-01		30,000	3,800	260	2,500	6,600	5,300
*	12-27-01		39,000	4,400	340	3,000	6,700	5,500
*	9-24-02		53,000	4,100	270	3,100	6,600	6,400
*	12-17-02		40,000	3,600	240	2,200	5,700	5,200
*	4-2-03		24,000	2,000	130	1,800	3,300	3,000

1. TPHG = Total Petroleum Hydrocarbons as Gasoline
 2. MTBE = Methyl Tertiary Butyl Ether
 3. ppb = Parts Per Billion
 4. ND = Below Laboratory Detection Limit
- * The Sample was Analyzed for Fuel Oxygenates using EPA Method 8260B. Only MTBE was Detected in the Sample

LEGEND



- 1 = 2,000-gallon Premium Unleaded Gasoline UST
- 2 = 6,000-Gallon Premium Unleaded Gasoline UST
- 3 = 6,000-Gallon Unleaded Plus Gasoline UST
- 4 = 500-gallon Waste Oil UST
- 5 = 10,000-gallon Regular Unleaded Gasoline UST



Approximate Scale: 1"=30'






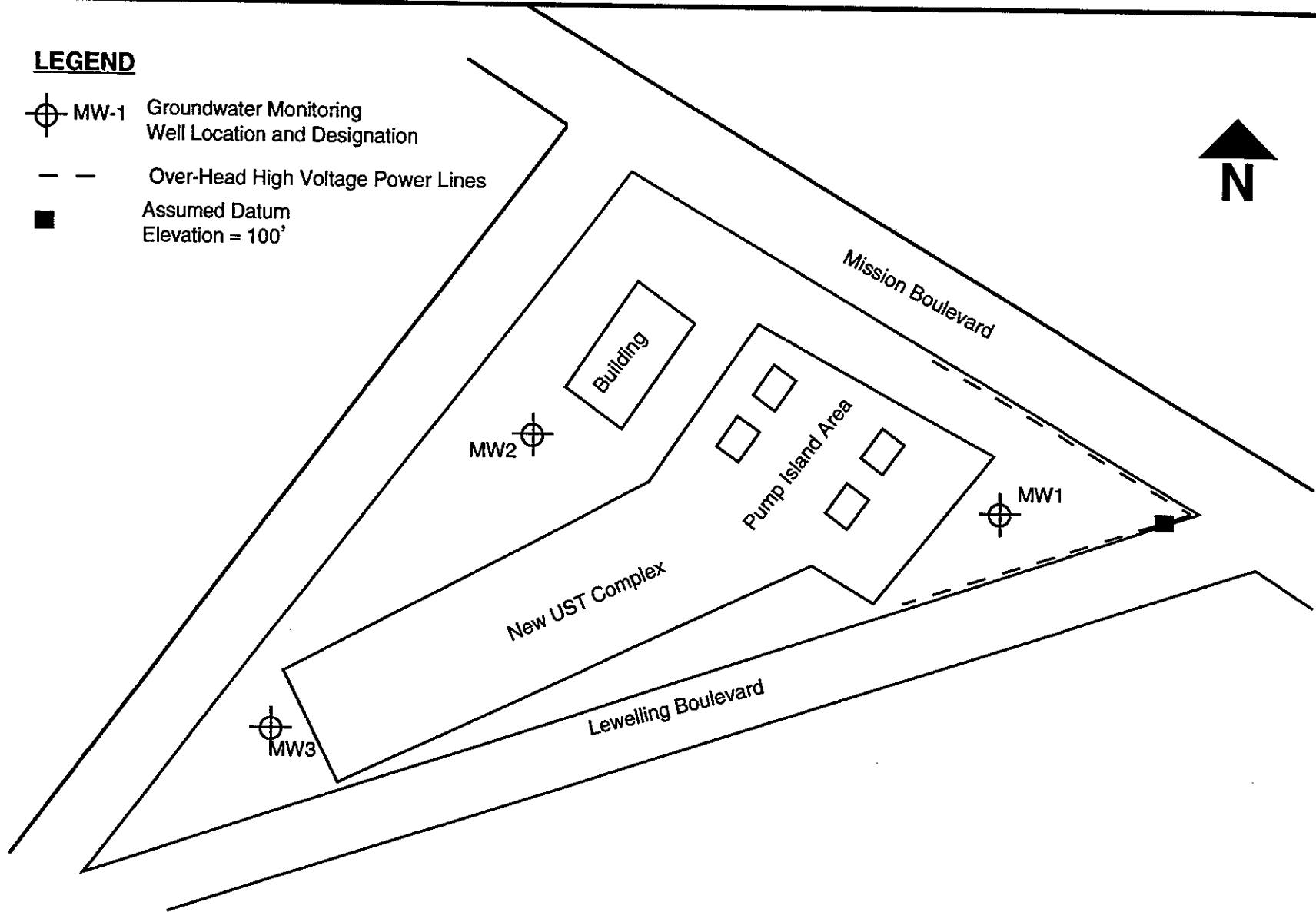
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Environmental Consultants
 980 W. Taylor Street, San Jose, CA 95126
 Phone [408]248-3700 • Fax [408] 248-4700

Former UST and Soil Sample Locations
 Soil and Groundwater Investigation
 ABE Petroleum LLC
 17715 Mission Boulevard • Hayward • California

FIGURE
A
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-  MW-1 Groundwater Monitoring Well Location and Designation
-  Over-Head High Voltage Power Lines
-  Assumed Datum Elevation = 100'



Approximate Scale: 1" = 30'



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Environmental Consultants

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Phone [408]971-6758 • Fax [408] 971-6759

Groundwater Monitoring Well Locations

Soil and Groundwater Investigation
ABE Petroleum LLC

17715 Mission Boulevard • Hayward • California

FIGURE

B

May 27, 2003
Project 02-103.06

Appendix B
PLANS UTILITY TRENCHES

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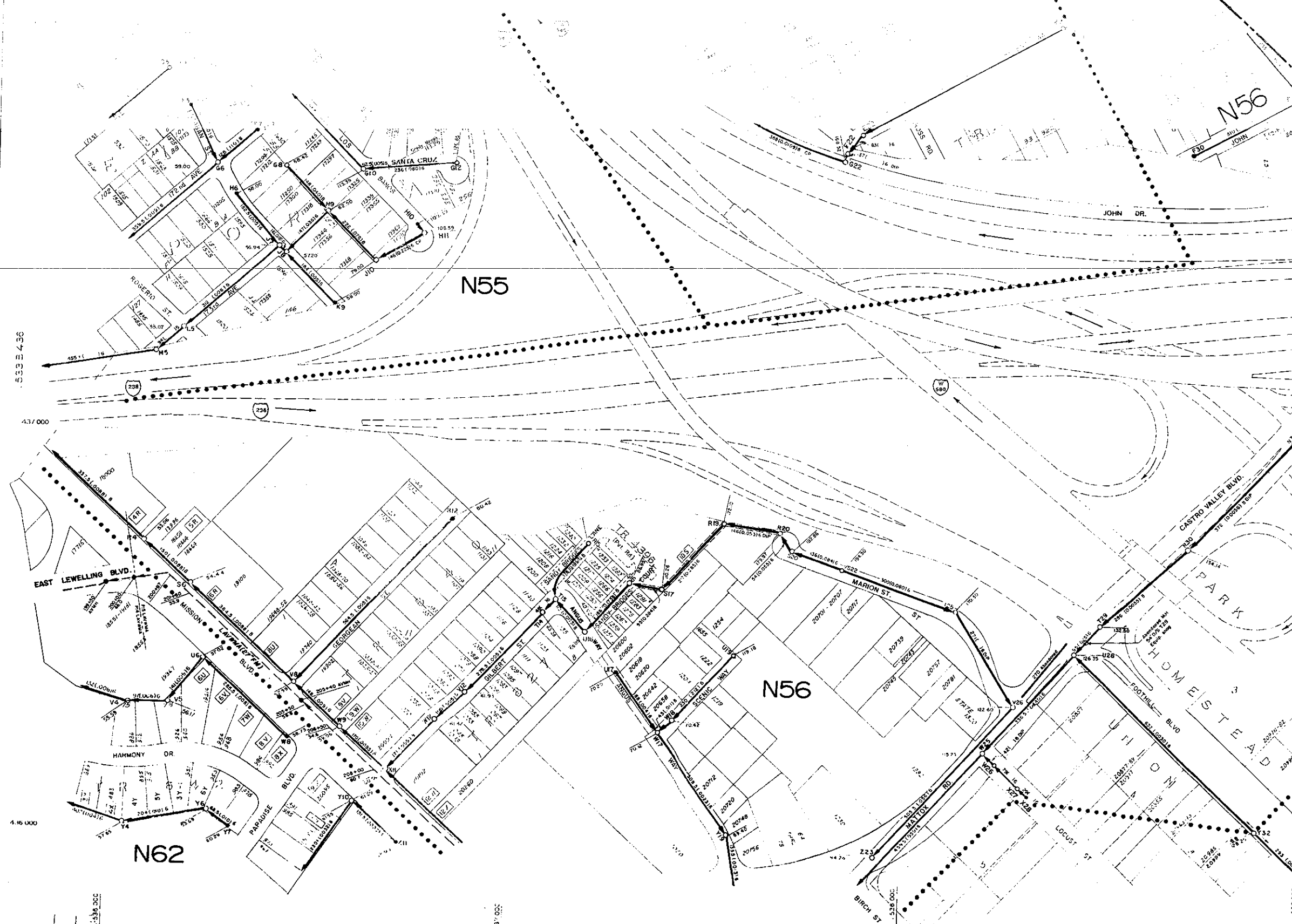
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The map is based on the California Coordinate System. It is for reference only and the Oro Loma Sanitary District assumes no responsibility for its accuracy.

REVISION	DATE	ORO LOMA SAN
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3	5 78	

COLLECTION SYSTEM

3-20

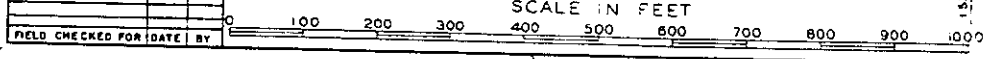
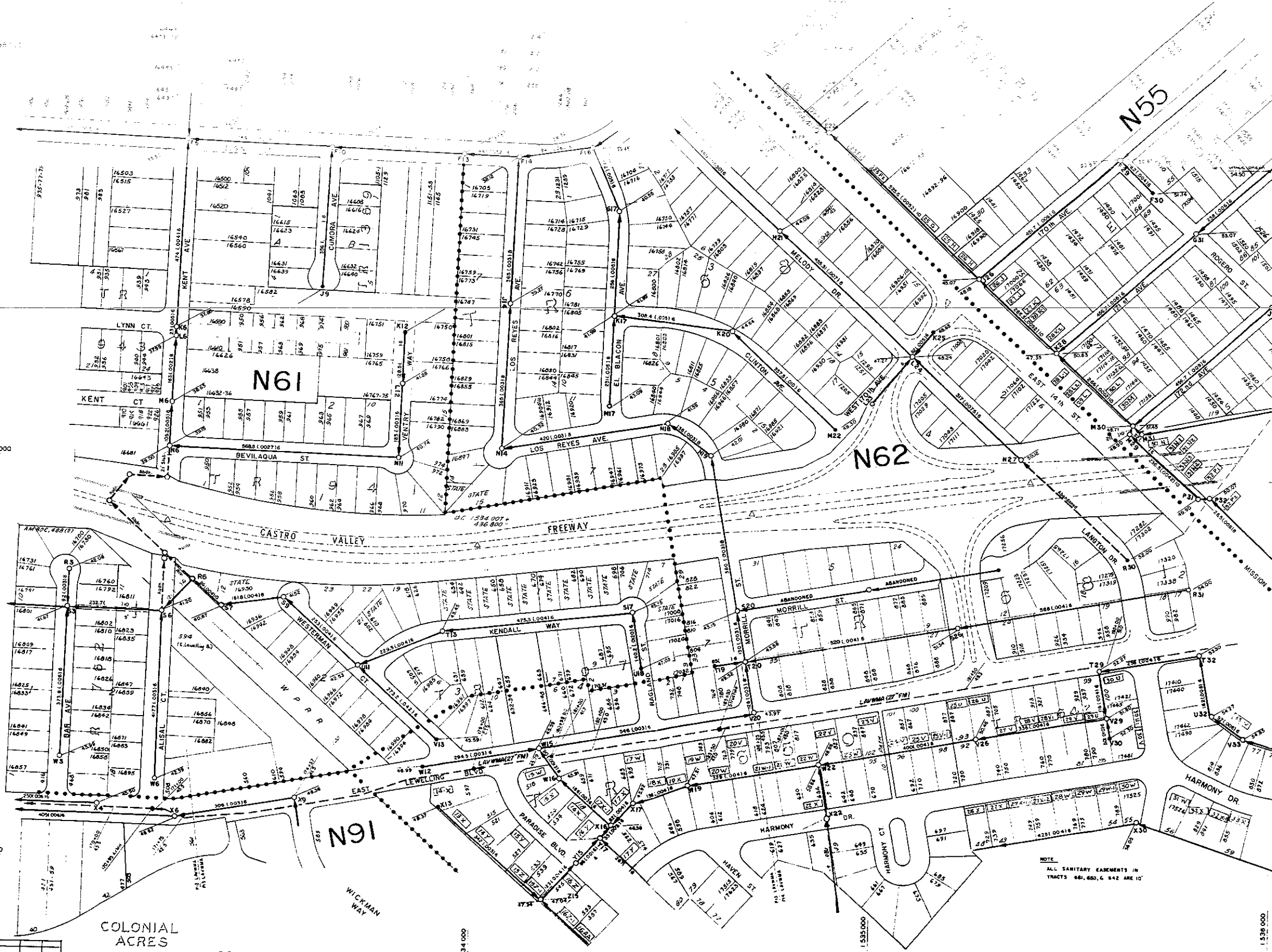


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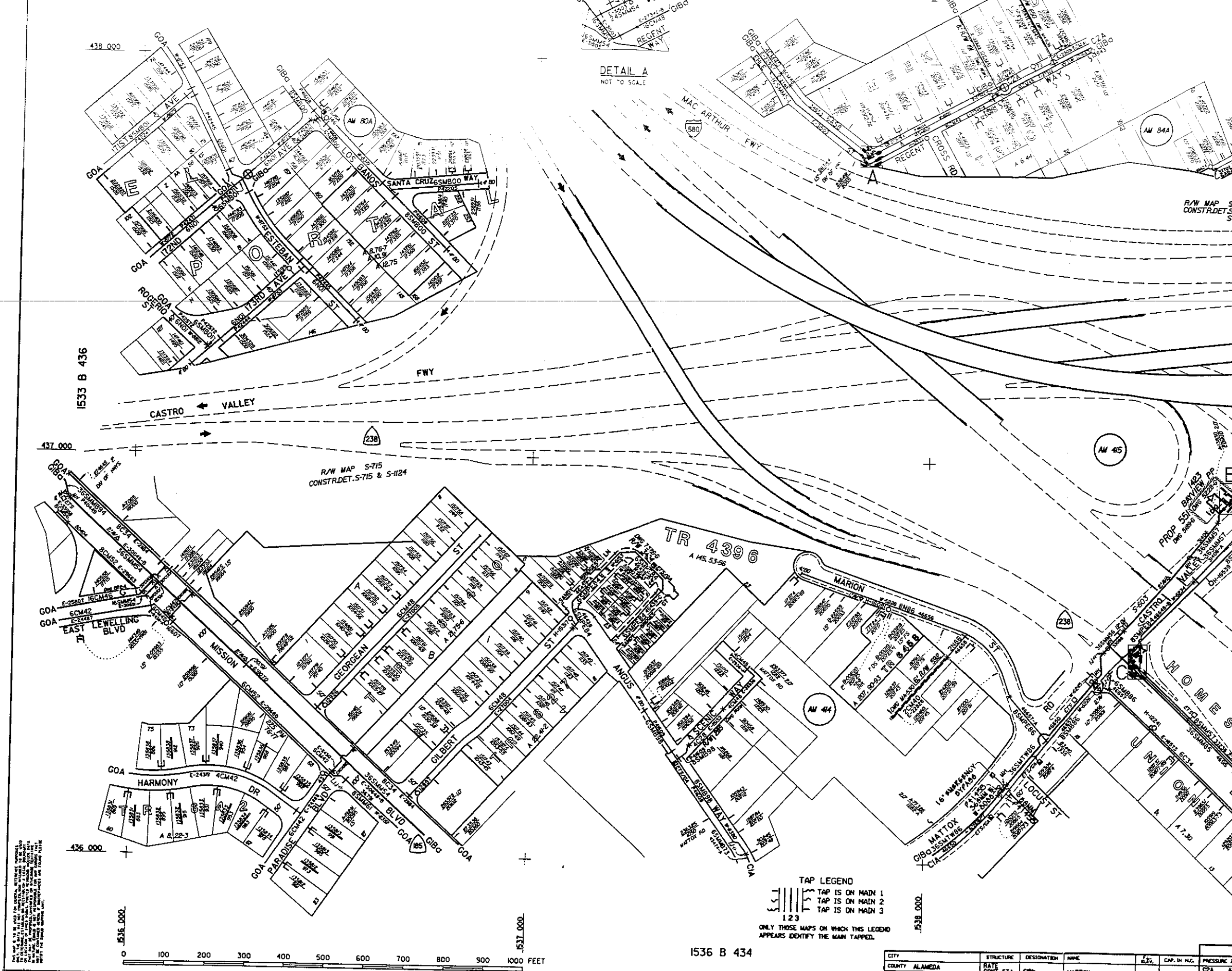
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This map is based on the California Coordinate System. It is for reference only and the Oro Loma Sanitary District assumes no responsibility for its accuracy.

NOTE
ALL SANITARY EASEMENTS IN TRACTS 681, 680, & 642 ARE 10'

REVISED	DATE

ORO LOMA SANITARY DISTRICT
COLLECTION SYSTEM



DETAIL A
NOT TO SCALE

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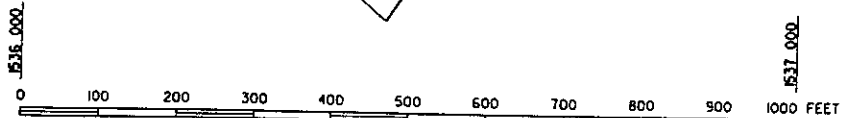
R/W MAP S-715
CONSTR.DET.S-715 & S-1124

TR 4396
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TAP LEGEND

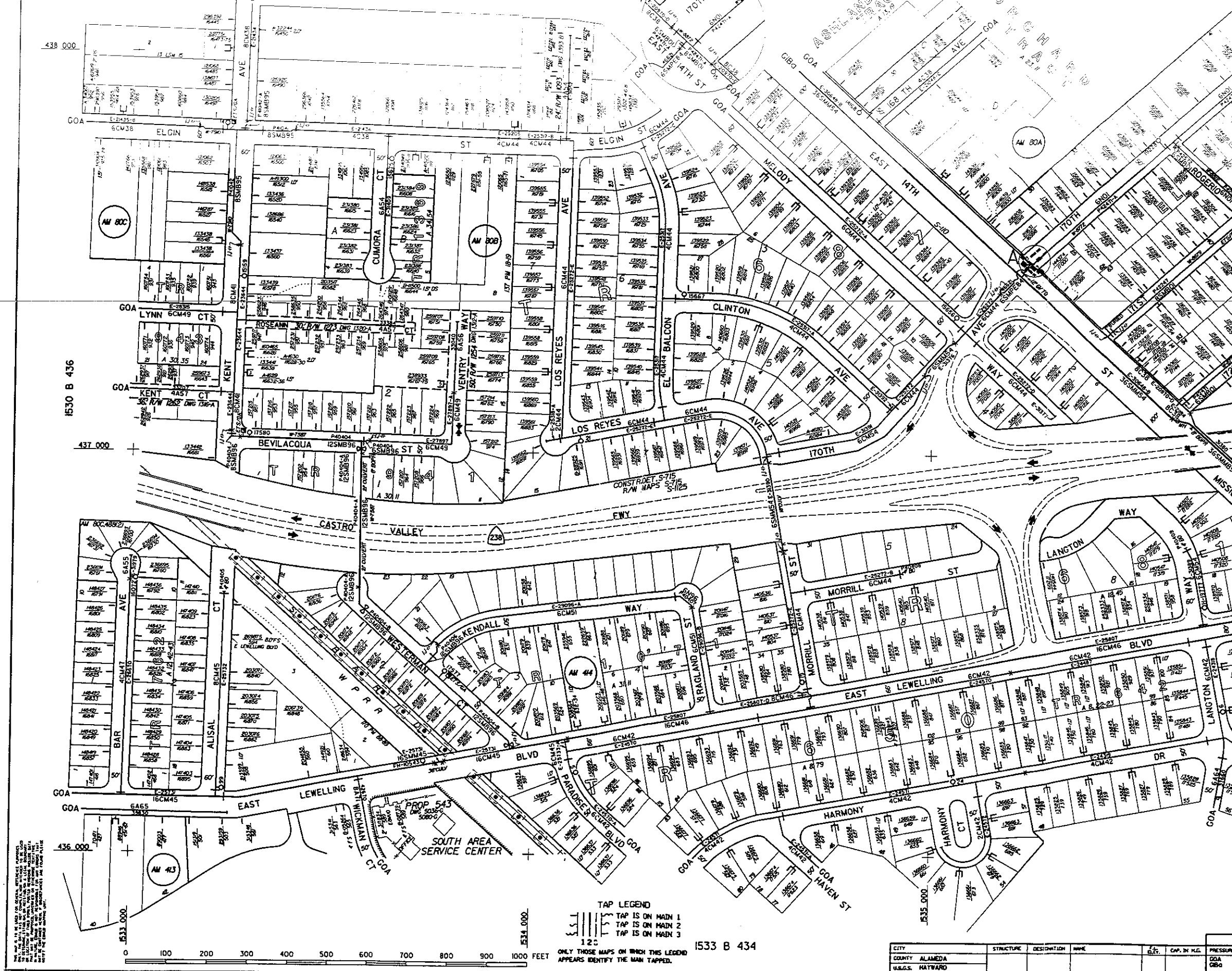
- ||| TAP IS ON MAIN 1
 - ||| TAP IS ON MAIN 2
 - ||| TAP IS ON MAIN 3
- 123
ONLY THOSE MAPS ON WHICH THIS LEGEND APPEARS IDENTIFY THE MAIN TAPPED.

THIS MAP IS A PART OF THE WATER MAINS SYSTEM MAPS OF THE CITY OF HAYWARD, CALIFORNIA. IT IS A PLAN VIEW OF THE WATER MAINS SYSTEM AND DOES NOT SHOW THE VERTICAL ALIGNMENT OF THE MAINS. THE VERTICAL ALIGNMENT IS SHOWN ON THE WATER MAINS SYSTEM MAPS OF THE CITY OF HAYWARD, CALIFORNIA. THE VERTICAL ALIGNMENT IS SHOWN ON THE WATER MAINS SYSTEM MAPS OF THE CITY OF HAYWARD, CALIFORNIA.



1536 B 434

CITY	COUNTY	U.S.G.C.	STRUCTURE	RATE	DESIGNATION	NAME	E.L.E.	CAP. IN H.C.	PRESSURE
HAYWARD	ALAMEDA	HAYWARD	CON	STA	CON	MATTOX BAYVIEW			



1530 B 436

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NOTES: THIS MAP IS FOR INFORMATION PURPOSES ONLY. IT IS NOT TO BE USED AS A BASIS FOR ANY LEGAL ACTION. THE CITY OF ALAMEDA IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS. THE USER SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE INFORMATION SHOWN ON THIS MAP.

0 100 200 300 400 500 600 700 800 900 1000 FEET

TAP LEGEND
 [Symbol 1] TAP IS ON MAIN 1
 [Symbol 2] TAP IS ON MAIN 2
 [Symbol 3] TAP IS ON MAIN 3
 123 ONLY THOSE MAPS ON WHICH THIS LEGEND APPEARS IDENTIFY THE MAIN TAPPED.

1533 B 434

CITY	STRUCTURE	DESIGNATION	NAME	EST.	CAP. IN KLG.	PRESSURE
ALAMEDA						
KATWARD						

Appendix C
EDR RECEPTOR & GEOCHECK REPORT



EDR Offsite Receptor Report

**ABE Petroleum
17715 Mission Blvd/Langton Way
Hayward, CA 94541**

Inquiry Number: 0977897.2s

May 15, 2003

***The Source
For Environmental
Risk Management
Data***

**3530 Post Road
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Thank you for your business
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available records was conducted by Environmental Data Resources, Inc. (EDR). The EDR Offsite Receptor Report provides information which may be used to comply with the Clean Air Act Risk Management Program 112-R. *"The rule requires that you estimate in the RMP residential populations within the circle defined by the endpoint for your worst-case and alternative release scenarios (i.e., the center of the circle is the point of release and the radius is the distance to the endpoint). In addition, you must report in the RMP whether certain types of public receptors and environmental receptors are within the circles."*

The address of the subject property, for which the search was intended, is:

ABE PETROLEUM
17715 MISSION BLVD/LANGTON WAY
HAYWARD, CA 94541

Distance Searched: 1.000 miles from subject property

RECEPTOR SUMMARY

An X indicates the presence of the receptor within the search radius.

Residential Population

Estimated population within search radius: 25289 persons.

Other Public Receptors

Type	Within Search Radius	Sites Total
Day Care Centers:	<input checked="" type="checkbox"/>	5
Medical Centers:	<input type="checkbox"/>	
Nursing Homes:	<input checked="" type="checkbox"/>	4
Schools:	<input checked="" type="checkbox"/>	17
Hospitals:	<input type="checkbox"/>	
Colleges:	<input checked="" type="checkbox"/>	2
Arena:	<input type="checkbox"/>	
Prison:	<input type="checkbox"/>	

Environmental Receptors

Type	Within Search Radius	Sites Total
Federal Land:	<input type="checkbox"/>	

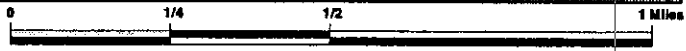
CENSUS FINDINGS

<u>Map ID</u>	<u>Tract Number</u>	<u>Total Population</u>	<u>Population in Radius</u>	<u>Total Area(sq.mi.)</u>	<u>Area in Radius(sq.mi.)</u>
T1	4306.00	5070	1314.1	0.89	0.23
T2	4305.00	4807	2440.2	0.63	0.32
T3	4338.00	5321	508.3	0.73	0.07
T4	4339.00	4999	3276.8	0.31	0.20
T5	4309.00	3884	189.3	0.43	0.02
T6	4340.00	3857	3841.0	0.45	0.45
T7	4310.00	2106	246.2	0.36	0.04
T8	4337.00	2511	1637.9	0.61	0.40
T9	4312.00	4869	1236.3	0.78	0.20
T10	4355.00	3057	2261.2	0.39	0.29
T11	4356.00	7714	6480.4	0.78	0.66
T12	4357.00	3758	1857.3	0.50	0.25

CENSUS MAP - 0977897.2s

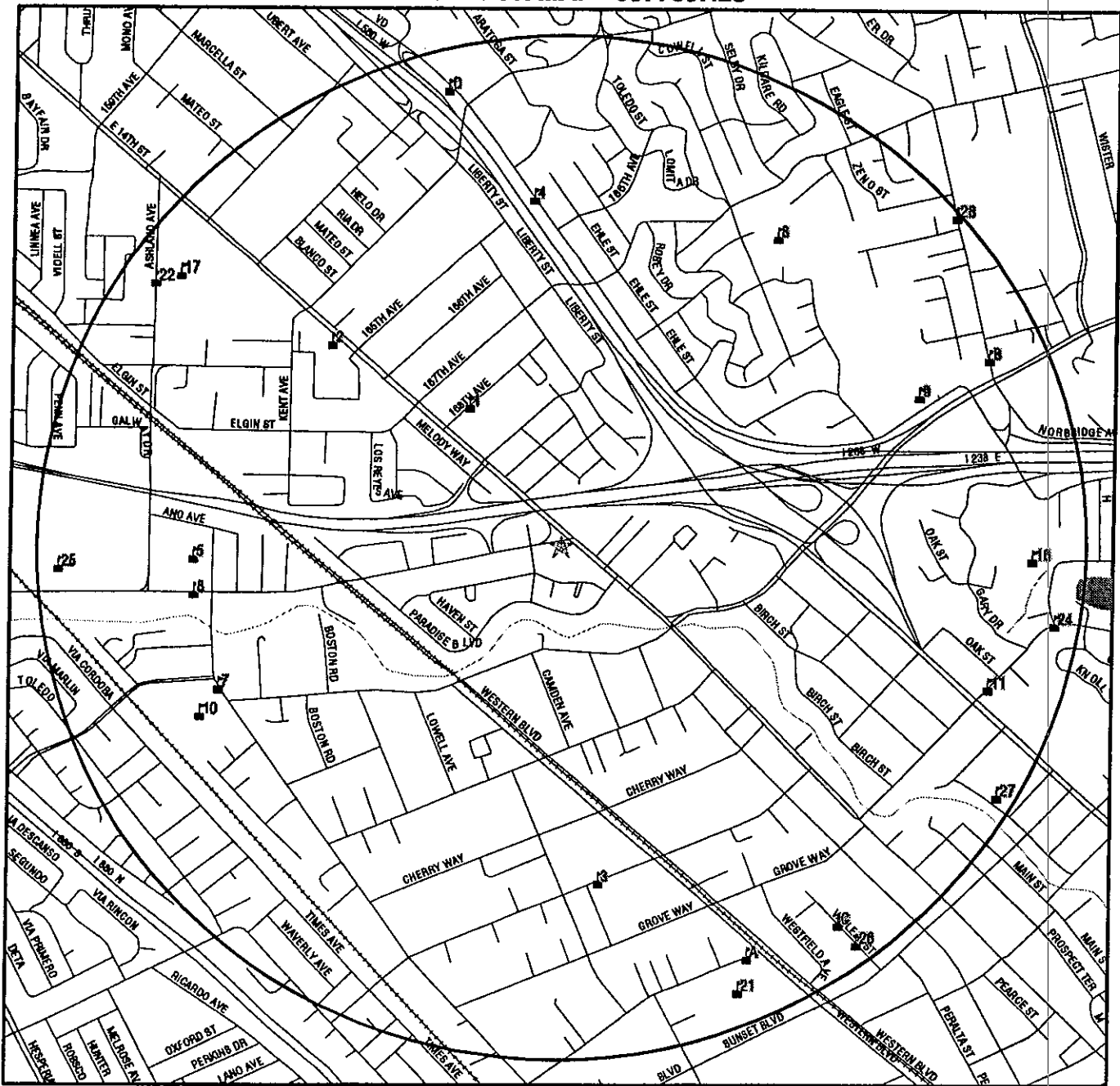


- ★ Target Property
- Roads
- ~ Waterways
- ▭ Census Tracts

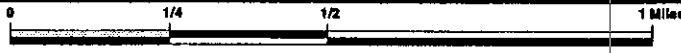


TARGET PROPERTY:	ABE Petroleum	CUSTOMER:	Sierra Environmental Inc.
ADDRESS:	17715 Mission Blvd/Langton Way	CONTACT:	Mitch Hajiaghaj
CITY/STATE/ZIP:	Hayward CA 94541	INQUIRY #:	0977897.2s
LAT/LONG:	37.6880 / 122.1047	DATE:	May 15, 2003 6:03 pm

RECEPTOR MAP - 0977897.2s



- ★ Target Property
- Roads
- ~ Waterways
- ⊕ Environmental or Public Receptor
- ▬ Federal Lands Linear Features
- ▭ Federal Lands Area



TARGET PROPERTY:	ABE Petroleum	CUSTOMER:	Sierra Environmental Inc.
ADDRESS:	17715 Mission Blvd/Langton Way	CONTACT:	Mitch Hajiaghai
CITY/STATE/ZIP:	Hayward CA 94541	INQUIRY #:	0977897.2s
LAT/LONG:	37.6880 / 122.1047	DATE:	May 15, 2003 6:04 pm

GEOCHECK®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

ABE PETROLEUM
17715 MISSION BLVD/LANGTON WAY
HAYWARD, CA 94541

TARGET PROPERTY COORDINATES

Latitude (North):	37.688000 - 37° 41' 16.8"
Longitude (West):	122.104698 - 122° 6' 16.9"
Universal Transverse Mercator:	Zone 10
UTM X (Meters):	578939.6
UTM Y (Meters):	4171371.0
Elevation:	64 ft. above sea level

EDR's GeoCheck Physical Setting Source Addendum has been developed to assist the environmental professional with the collection of physical setting source information in accordance with ASTM 1527-00, Section 7.2.3. Section 7.2.3 requires that a current USGS 7.5 Minute Topographic Map (or equivalent, such as the USGS Digital Elevation Model) be reviewed. It also requires that one or more additional physical setting sources be sought when (1) conditions have been identified in which hazardous substances or petroleum products are likely to migrate to or from the property, and (2) more information than is provided in the current USGS 7.5 Minute Topographic Map (or equivalent) is generally obtained, pursuant to local good commercial or customary practice, to assess the impact of migration of recognized environmental conditions in connection with the property. Such additional physical setting sources generally include information about the topographic, hydrologic, hydrogeologic, and geologic characteristics of a site, and wells in the area.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata. EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

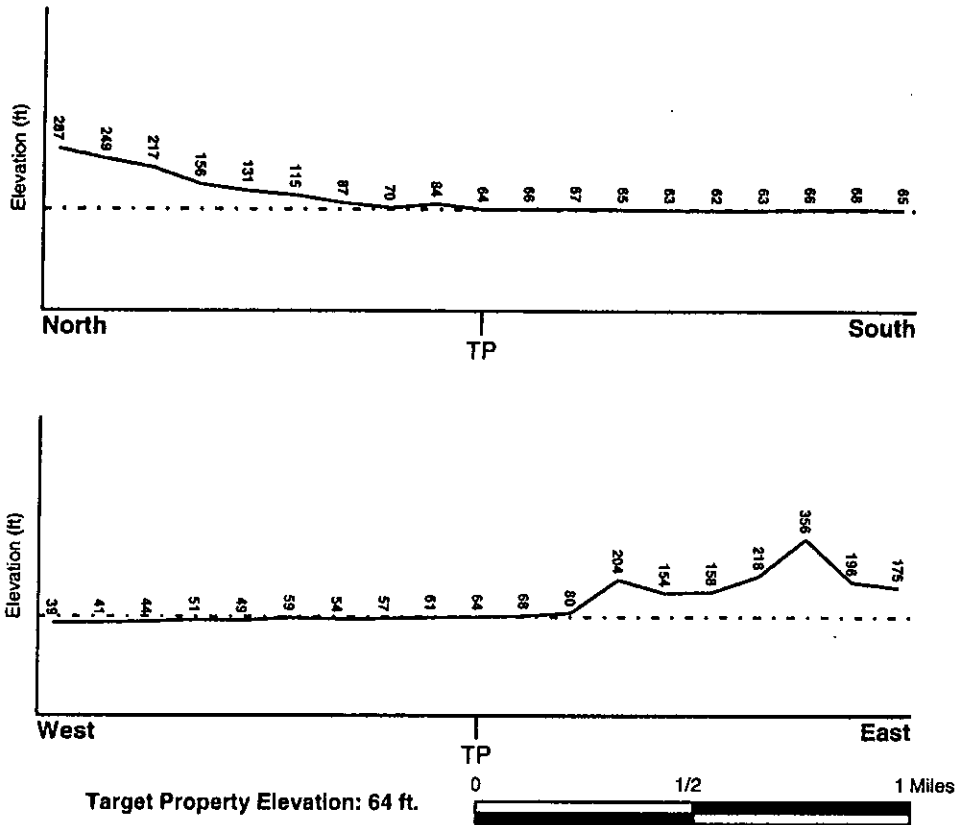
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

USGS Topographic Map: 2437122-F1 HAYWARD, CA
 General Topographic Gradient: General West
 Source: USGS 7.5 min quad index

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Target Property County</u> ALAMEDA, CA	<u>FEMA Flood Electronic Data</u> YES - refer to the Overview Map and Detail Map
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Flood Plain Panel at Target Property: 0600010090C

Additional Panels in search area: 0650330003D

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u> HAYWARD	<u>NWI Electronic Data Coverage</u> YES - refer to the Overview Map and Detail Map
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HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
1	1/4 - 1/2 Mile SE	NW
3	1/4 - 1/2 Mile East	W
A4	1/2 - 1 Mile East	W
A5	1/2 - 1 Mile East	N
6	1/2 - 1 Mile SSE	S
B7	1/2 - 1 Mile SE	S
B8	1/2 - 1 Mile SE	S
B9	1/2 - 1 Mile SE	S
C11	1/2 - 1 Mile SW	SSE

* ©1995 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
C12	1/2 - 1 Mile SW	SSE
D13	1/2 - 1 Mile NW	SE
D14	1/2 - 1 Mile NW	SW
E15	1/2 - 1 Mile ESE	SW
E16	1/2 - 1 Mile ESE	SW
F17	1/2 - 1 Mile West	E
D18	1/2 - 1 Mile NW	SW
F19	1/2 - 1 Mile West	E
F20	1/2 - 1 Mile West	E
G21	1/2 - 1 Mile ENE	W
22	1/2 - 1 Mile SSW	S
H23	1/2 - 1 Mile SSE	SW
G25	1/2 - 1 Mile ENE	N
I26	1/2 - 1 Mile NW	NE, NW
27	1/2 - 1 Mile ENE	SW
J28	1/2 - 1 Mile ENE	Varies
J29	1/2 - 1 Mile ENE	SE
30	1/2 - 1 Mile ESE	SW
31	1/2 - 1 Mile NNW	W
I32	1/2 - 1 Mile NW	NE, NW
33	1/2 - 1 Mile South	NE
34	1/2 - 1 Mile NW	W

For additional site information, refer to Physical Setting Source Map Findings.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era: Paleozoic
System: Permian
Series: Ultramafic rocks
Code: uM (decoded above as Era, System & Series)

GEOLOGIC AGE IDENTIFICATION

Category: Plutonic and Intrusive Rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: YOLO

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: MODERATE

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

GEOCHECK[®] - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	26 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 7.30 Min: 6.10
2	26 inches	65 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 8.40 Min: 6.10

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: loam
silty clay loam
clay
clay loam
extremely gravelly - sand

Surficial Soil Types: loam
silty clay loam
clay
clay loam
extremely gravelly - sand

Shallow Soil Types: clay
gravelly - sandy clay loam

Deeper Soil Types: stratified
clay
silty clay loam
sandy clay loam
extremely gravelly - sand

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

According to ASTM E 1527-00, Section 7.2.2, "one or more additional state or local sources of environmental records may be checked, in the discretion of the environmental professional, to enhance and supplement federal and state sources... Factors to consider in determining which local or additional state records, if any, should be checked include (1) whether they are reasonably ascertainable, (2) whether they are sufficiently useful, accurate, and complete in light of the objective of the records review (see 7.1.1), and (3) whether they are obtained, pursuant to local, good commercial or customary practice." One of the record sources listed in Section 7.2.2 is water well information. Water well information can be used to assist the environmental professional in assessing sources that may impact groundwater flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
2	USGS0119464	1/4 - 1/2 Mile SW
10	USGS0119381	1/2 - 1 Mile WSW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

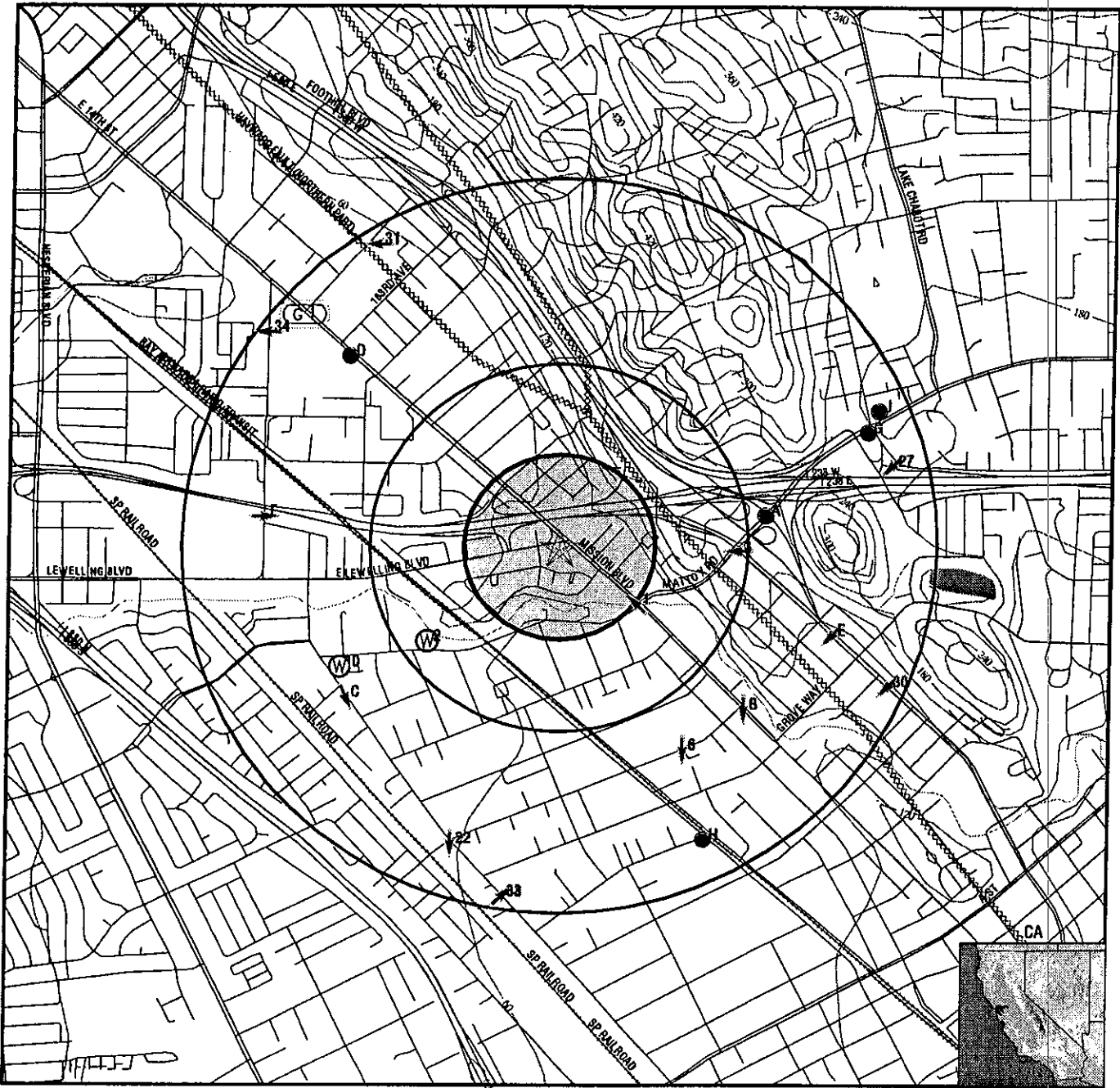
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

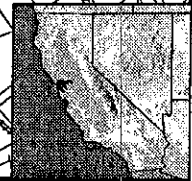
STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 0977897.1s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells



TARGET PROPERTY:	ABE Petroleum	CUSTOMER:	Sierra Environmental Inc.
ADDRESS:	17715 Mission Blvd/Langton Way	CONTACT:	Mitch Hajiaghai
CITY/STATE/ZIP:	Hayward CA 94541	INQUIRY #:	0977897.1s
LAT/LONG:	37.6880 / 122.1047	DATE:	May 15, 2003 6:07 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
1 SE 1/4 - 1/2 Mile Higher	Site ID:	01-1160		
	Groundwater Flow:	NW	AQUIFLOW	50290
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	40		
	Date:	08/28/1991		
<hr/>				
2 SW 1/4 - 1/2 Mile Lower	Agency:	USGS	Site ID:	374103122063901
	Site Name:	003S002W08L003M		
	Dec. Latitude:	37.68427		
	Dec. Longitude:	-122.11099		
	Coord Sys:	NAD83		
	State:	CA		
	County:	Alameda County		
	Altitude:	64.61		
	Hydrologic code:	Not Reported		
	Topographic:	Not Reported		
	Site Type:	Ground-water other than Spring		
	Const Date:	Not Reported	Inven Date:	19990129
	Well Type:	Single well, other than collector or Ranney type		
	Primary Aquifer:	Not Reported		
	Aquifer type:	Not Reported	Well depth:	Not Reported
	Hole depth:	Not Reported	Source:	Not Reported
	Project no:	Not Reported		
<hr/>				
3 East 1/4 - 1/2 Mile Higher	Site ID:	01-0238		
	Groundwater Flow:	W	AQUIFLOW	50111
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	37		
	Date:	01/1993		
<hr/>				
A4 East 1/2 - 1 Mile Higher	Site ID:	01-1384		
	Groundwater Flow:	W	AQUIFLOW	53598
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	3.8.5		
	Date:	07/16/1986		
<hr/>				
A5 East 1/2 - 1 Mile Higher	Site ID:	01-1476		
	Groundwater Flow:	N	AQUIFLOW	53596
	Shallow Water Depth:	3.70		
	Deep Water Depth:	11.00		
	Average Water Depth:	Not Reported		
	Date:	04/16/1996		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
6 SSE 1/2 - 1 Mile Higher	Site ID:	01-0749		
	Groundwater Flow:	S	AQUIFLOW	50312
	Shallow Water Depth:	24.5		
	Deep Water Depth:	35.75		
	Average Water Depth:	Not Reported		
Date:	07/20/1993			
B7 SE 1/2 - 1 Mile Higher	Site ID:	01-1794		
	Groundwater Flow:	S	AQUIFLOW	50297
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	6.5		
Date:	08/10/1990			
B8 SE 1/2 - 1 Mile Higher	Site ID:	01-1794		
	Groundwater Flow:	S	AQUIFLOW	50296
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	7.5		
Date:	05/27/1992			
B9 SE 1/2 - 1 Mile Higher	Site ID:	01-1794		
	Groundwater Flow:	S	AQUIFLOW	50295
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	Not Reported		
Date:	12/14/1992			
10 WSW 1/2 - 1 Mile Lower			FED USGS	USGS0119381
	Agency:	USGS		
Site Name:	003S002W08M003M	Site ID:	374100122065101	
Dec. Latitude:	37.68326			
Dec. Longitude:	-122.11524			
Coord Sys:	NAD83			
State:	CA			
County:	Alameda County			
Altitude:	48			
Hydrologic code:	18050004			
Topographic:	Not Reported			
Site Type:	Ground-water other than Spring			
Const Date:	1968	Inven Date:	Not Reported	
Well Type:	Single well, other than collector or Ranney type			
Primary Aquifer:	Not Reported			
Aquifer type:	Not Reported	Well depth:	85	
Hole depth:	85	Source:	D	
Project no:	Not Reported			

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
C11 SW 1/2 - 1 Mile Lower	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0822 SSE 15.5 20.04 Not Reported 03/08/1995	AQUIFLOW	53506
C12 SW 1/2 - 1 Mile Lower	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0822 SSE 6.53 8.60 Not Reported 07/16/1992	AQUIFLOW	53505
D13 NW 1/2 - 1 Mile Lower	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0771 SE 13.5 14.5 Not Reported 11/27/1990	AQUIFLOW	52398
D14 NW 1/2 - 1 Mile Lower	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0771 SW 2.5 10.0 Not Reported 05/26/1999	AQUIFLOW	52396
E15 ESE 1/2 - 1 Mile Higher	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0216 SW Not Reported Not Reported 24 09/26/1996	AQUIFLOW	55643
E16 ESE 1/2 - 1 Mile Higher	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-1880 SW Not Reported Not Reported 15 04/06/1995	AQUIFLOW	55647
F17 West 1/2 - 1 Mile Lower	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-1095 E 5.0 7.0 Not Reported 09/29/1993	AQUIFLOW	52517

MAP FINDINGS

Map ID	Direction	Distance	Distance (ft.)	Elevation	Site	EDR ID	Database
1	NNW	1/4-1/2 mi	1739	Higher	Provnum: 555779 Street: 1440 168TH AVENUE State: CA Phone: 5104818575 Num Beds: 176 Occupied %: 3 Owner Type: Non profit - Corporation Multi Nursing home ownership?: NO Has Resident and Family Councils?: NONE	SRNH555779	Nursing Homes
					Name: KAISER PERMANENTE POST ACUTE City: SAN LEANDRO Zipcode: 94578 Last Insp: 20020116 Num Residents: 6 Description: Participating in Medicare and Medicaid Within Hosp?: NO		
2	NW	1/2-1 mi	3146	Lower	Name: Ashland School ID: 218435 Site Type: school Latitude: 37.69400 Longitude: -122.10000	GNS0159639	GNIS Schools
3	South	1/2-1 mi	3455	Higher	Provnum: 555611 Street: 494 BLOSSOM WAY State: CA Phone: 5105827676 Num Beds: 97 Occupied %: 94 Owner Type: For profit - Corporation Multi Nursing home ownership?: YES Has Resident and Family Councils?: BOTH	SRNH555611	Nursing Homes
					Name: MORTON BAKAR CENTER City: HAYWARD Zipcode: 94541 Last Insp: 20011003 Num Residents: 91 Description: Participating in Medicare and Medicaid Within Hosp?: NO		
4	North	1/2-1 mi	3629	Higher	SchoolId: 119085 Name: MONTESSORI TEACHER EDUCATION CENTER-SAN FRAN BAY Address: 16492 FOOTHILL BLVD City: SAN LEANDRO State: CA Telephone: 5102781115 Sector: Less than 2-year private, not-for-profit Level: Less than 2 years (below associate) Control: Private, nonprofit Affiliation: Private, not for-profit, no religious affiliation Has Hospital?: 2 Open to Pub?: Insitution is open to the public Active?: Active - institution active and not a new institution	COL119085	Colleges
					Zip: 94578		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
D18 NW 1/2 - 1 Mile Lower	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0771 SW Not Reported Not Reported 10 12/09/1998	AQUIFLOW	52397
F19 West 1/2 - 1 Mile Lower	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-1095 E 6.5 7.0 Not Reported 08/19/1993	AQUIFLOW	52518
F20 West 1/2 - 1 Mile Lower	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-1095 E 4.55 9.41 Not Reported 12/16/1996	AQUIFLOW	52519
G21 ENE 1/2 - 1 Mile Higher	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-1384 W Not Reported Not Reported Not Reported 05/05/1999	AQUIFLOW	53599
22 SSW 1/2 - 1 Mile Lower	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-1269 S Not Reported Not Reported 3-6 04/25/1993	AQUIFLOW	50288
H23 SSE 1/2 - 1 Mile Higher	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0431 SW 18.66 25.27 Not Reported 09/27/1996	AQUIFLOW	52523
H24 SSE 1/2 - 1 Mile Higher	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-0431 Not Reported Not Reported Not Reported 7 12/22/1994	AQUIFLOW	52522

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
G26 ENE 1/2 - 1 Mile Higher	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-1476 N 3.85 9.85 Not Reported 04/16/1999	AQUIFLOW	53597
I26 NW 1/2 - 1 Mile Lower	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-3745 NE, NW 9.5 10.0 Not Reported 09/10/1991	AQUIFLOW	67600
27 ENE 1/2 - 1 Mile Higher	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-1789 SW 2.5 9.0 Not Reported 07/16/1993	AQUIFLOW	50305
J28 ENE 1/2 - 1 Mile Higher	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-1247 Varies Not Reported Not Reported 18 bg 02/08/1991	AQUIFLOW	51554
J29 ENE 1/2 - 1 Mile Higher	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-1246 SE Not Reported Not Reported 5 05/06/1996	AQUIFLOW	50100
30 ESE 1/2 - 1 Mile Higher	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	Not Reported SW Not Reported Not Reported 14 04/17/1992	AQUIFLOW	55669
31 NNW 1/2 - 1 Mile Lower	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	01-1436 W Not Reported Not Reported 7.10 09/28/1989	AQUIFLOW	67684

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
132 NW 1/2 - 1 Mile Lower	Site ID:	01-1164		
	Groundwater Flow:	NE, NW	AQUIFLOW	67886
	Shallow Water Depth:	1.5		
	Deep Water Depth:	8.5		
	Average Water Depth:	Not Reported		
Date:	03/06/1992			
33 South 1/2 - 1 Mile Lower	Site ID:	01-0176		
	Groundwater Flow:	NE	AQUIFLOW	53514
	Shallow Water Depth:	20.0		
	Deep Water Depth:	30.0		
	Average Water Depth:	Not Reported		
Date:	06/25/1999			
34 NW 1/2 - 1 Mile Lower	Site ID:	Not Reported		
	Groundwater Flow:	W	AQUIFLOW	52511
	Shallow Water Depth:	6.05		
	Deep Water Depth:	9.23		
	Average Water Depth:	Not Reported		
Date:	12/06/1994			

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for ALAMEDA County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 94541

Number of sites tested: 3

<u>Area</u>	<u>Average Activity</u>	<u>% <4 pCi/L</u>	<u>% 4-20 pCi/L</u>	<u>% >20 pCi/L</u>
Living Area - 1st Floor	1.033 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the national Cooperative Soil Survey (NCS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

ADDITIONAL ENVIRONMENTAL RECORD SOURCES

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STATE RECORDS

California Drinking Water Quality Database

Source: Department of Health Services
Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations for District 2, 3, 5 and 6

Source: Department of Conservation
Telephone: 916-323-1779

RADON

Area Radon Information

Source: USGS
Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

MAP FINDINGS

Map ID Direction Distance Distance (ft.) Elevation	Site	EDR ID Database
5 West 1/2-1 mi 3694 Lower	Name: Saint John School ID: 232175 Site Type: school Latitude: 37.68800 Longitude: -122.10000	GNS0223152 GNIS Schools
6 West 1/2-1 mi 3715 Lower	Schoolid: 00074753 Address: 270 E LEWELLING BLVD County num: 6001 State: CA Zip5: 94580 Phone: 510-276-6632 Hi grde: Grade 8 Locale: Urban fringe of Large City School type: Regular elementary or secondary School level: Elementary Affiliation: Roman Catholic Association: No Membership Association Name: ST JOHN SCHOOL City: SAN LORENZO County: ALAMEDA Fips: 6 Zip4: Not Reported Low grade: Kindergarten Gender: Coed	PVTSCH00074753 Private Schools
7 WSW 1/2-1 mi 3721 Lower	Name: COLONIAL ACRES ELEMENTARY NCES ID: 063471005847 Address: 17115 MEEKLAND AVE. HAYWARD, CA 94541 Telephone: 5103174500 Local Code: Urban Fringe of Large City School Type: Regular Elementary and Secondary Schools School Level: Primary Lowest Grade: Kindergarten Highest Grade: 05	PBS063471005847 Public Schools
8 NE 1/2-1 mi 3894 Higher	Name: El Portal School ID: 223052 Site Type: school Latitude: 37.69700 Longitude: -122.10000	GNS0180587 GNIS Schools
9 ENE 1/2-1 mi 3938 Higher	Name: HAPPINESS HILL PRE-SCHOOL Address: Not Reported City: Not Reported State: CA Zip: Not Reported	DAY1037025 Daycare
10 WSW 1/2-1 mi 4001 Lower	Name: Colonial Acres Elementary School ID: 221401 Site Type: school Latitude: 37.68300 Longitude: -122.10000	GNS0173155 GNIS Schools

MAP FINDINGS

Map ID	Direction	Distance	Distance (ft.)	Elevation	Site	EDR ID Database
11	ESE	1/2-1 mi	4554	Higher	Schoolid: 114345 Name: SPECTRUM COMMUNITY SERVICES INCORPORATED Address: 1435 GROVE WAY City: HAYWARD State: CA Telephone: 5108810300228 Zip: 94546 Sector: Less than 2-year private, not-for-profit Level: Less than 2 years (below associate) Control: Private, nonprofit Affiliation: Private, not for-profit, no religious affiliation Has Hospital?: 2 Open to Pub?: Institution is open to the public Active?: Active - institution active and not a new institution	COL114345 Colleges
A12	SSE	1/2-1 mi	4628	Higher	Name: H.U.S.D. CHILD DEV. PROG.-CHERRYLAND SCHOOL Address: Not Reported City: Not Reported State: CA Zip: Not Reported	DAY1037068 Daycare
A13	SSE	1/2-1 mi	4641	Higher	Name: CHERRYLAND ELEMENTARY NCES ID: 061674002108 Address: 585 WILLOW AVE. HAYWARD, CA 94541 Telephone: 5102938569 Local Code: Urban Fringe of Large City School Type: Regular Elementary and Secondary Schools School Level: Primary Lowest Grade: Kindergarten Highest Grade: 06	PBS061674002108 Public Schools
B14	ENE	1/2-1 mi	4726	Higher	Name: BRIGHT WORLD NURSERY Address: Not Reported City: Not Reported State: CA Zip: Not Reported	DAY1037021 Daycare

MAP FINDINGS

Map ID	Direction	Distance	Distance (ft.)	Elevation	Site	EDR ID	Database
B15	ENE	1/2-1 mi	4734	Higher	Schoolid: K9300794 Address: 20613 STANTON AVENUE County num: 6001 State: CA Zip5: 94546 Phone: 510-581-1580 Hi grde: Kindergarten Locale: Urban fringe of Large City School type: Early Childhood Program/Day Care Center School level: Elementary Affiliation: Assembly of God Association: Association of Christian Schools International (ACSI)	Name: BRIGHT WORLD PRE SCHOOL City: CASTRO VALLEY County: ALAMEDA Fips: 6 Zip4: Not Reported Low grade: Prekindergarten Gender: Coed	PVTSCHK9300794 Private Schools
16	East	1/2-1 mi	4748	Higher	Name: Strobridge Elementary School ID: 235602 Site Type: school Latitude: 37.68800 Longitude: -122.10000		GNS0231567 GNIS Schools
17	NW	1/2-1 mi	4776	Lower	Name: Edendale Elementary School ID: 222975 Site Type: school Latitude: 37.69600 Longitude: -122.10000		GNS0180158 GNIS Schools
C18	SE	1/2-1 mi	4779	Higher	Schoolid: A9100625 Address: 21753 VALLEJO ST County num: 6001 State: CA Zip5: 94541 Phone: 510-581-1304 Hi grde: Grade 1 Locale: Urban fringe of Large City School type: Regular elementary or secondary School level: Elementary Affiliation: Nonsectarian Association: National Association for the Education of Young Children (NAEYC),Other Special Emphasis Association(s)	Name: CAMELOT City: HAYWARD County: ALAMEDA Fips: 6 Zip4: Not Reported Low grade: Prekindergarten Gender: Coed	PVTSCHA9100625 Private Schools
D19	NNW	1/2-1 mi	4815	Higher	Name: MONTESSORI SCHOOL OF SAN LEANDRO Address: Not Reported City: Not Reported State: CA Zip: Not Reported		DAY1037006 Daycare

MAP FINDINGS

Map ID Direction Distance Distance (ft.) Elevation	Site	EDR ID Database
C20 SE 1/2-1 mi 4840 Higher	Name: CAMELOT SCHOOL Address: Not Reported City: Not Reported State: CA Zip: Not Reported	DAY1037062 Daycare
21 SSE 1/2-1 mi 4917 Higher	Name: Cherryland Elementary School ID: 220967 Site Type: school Latitude: 37.67600 Longitude: -122.10000	GNS0170983 GNIS Schools
22 NW 1/2-1 mi 4942 Lower	Name: EDENDALE MIDDLE NCES ID: 063471005851 Address: 16160 ASHLAND AVE. SAN LORENZO, CA 94580 Telephone: 5103175100 Local Code: Urban Fringe of Large City School Type: Regular Elementary and Secondary Schools School Level: Middle Lowest Grade: 06 Highest Grade: 08	PBS063471005851 Public Schools
D23 NNW 1/2-1 mi 4945 Higher	Schoolid: 02157355 Address: 16292 FOOTHILL BOULEVARD County num: 6001 State: CA Zip5: 94578 Phone: 510-278-1115 Hi grde: Ungraded Locale: Urban fringe of Large City School type: Montessori School level: Combined Affiliation: Nonsectarian Association: American Montessori Society (AMS)	Name: MONTESSORI SCHOOL OF SAN LEAND City: SAN LEANDRO County: ALAMEDA Fips: 6 Zip4: 2105 Low grade: Ungraded Gender: Coed
24 East 1/2-1 mi 5033 Higher	Name: STROBRIDGE ELEMENTARY NCES ID: 061674008855 Address: 21400 BEDFORD DR. CASTRO VALLEY, CA 94546 Telephone: 5102938576 Local Code: Urban Fringe of Large City School Type: Regular Elementary and Secondary Schools School Level: Primary Lowest Grade: Kindergarten Highest Grade: 06	PBS061674008855 Public Schools

MAP FINDINGS

Map ID Direction Distance Distance (ft.) Elevation	Site	EDR ID Database
25 West 1/2-1 mi 5064 Lower	Name: San Lorenzo High School ID: 232435 Site Type: school Latitude: 37.68800 Longitude: -122.10000	GNS0224492 GNIS Schools
26 SE 1/2-1 mi 5072 Higher	Provnum: 05A199 Street: 21863 VALLEJO STREET State: CA Phone: 5105388076 Num Beds: 36 Occupied %: 94 Owner Type: For profit - Corporation Multi Nursing home ownership?: NO Has Resident and Family Councils?: RESIDENT	Name: ST. THERESE CONVALESCENT HOSP City: HAYWARD Zipcode: 94541 Last Insp: 20020226 Num Residents: 34 Description: Participating in Medicaid Only Within Hosp?: NO
27 ESE 1/2-1 mi 5099 Higher	Name: Kimball School ID: 226578 Site Type: school Latitude: 37.68100 Longitude: -122.10000	GNS0197175 GNIS Schools
28 NE 1/2-1 mi 5243 Higher	Provnum: 555082 Street: 20090 STANTON AVE. State: CA Phone: 5105388464 Num Beds: 50 Occupied %: 96 Owner Type: For profit - Corporation Multi Nursing home ownership?: YES Has Resident and Family Councils?: BOTH	Name: VALLEY POINTE NURSING & REHAB. City: CASTRO VALLEY Zipcode: 94546 Last Insp: 20020222 Num Residents: 48 Description: Participating in Medicare and Medicaid Within Hosp?: NO

RECORDS SEARCHED/DATA CURRENCY TRACKING

Census

Source: U.S. Census Bureau
Telephone: 301-457-4100

1990 U.S. Census data was used to estimate residential population following these EPA guidelines:
"Census data are presented by Census tract. If your circle covers only a portion of the tract, you should develop an estimate for that portion...Determine the population density per square mile (total population of the Census tract divided by the number of square miles in the tract) and apply that density figure to the number of square miles within your circle."

FED_LAND: Federal Lands

Source: USGS
Telephone: 888-275-8747

Federal lands data. Includes data from several Federal land management agencies, including Fish and Wildlife Service, Bureau of Land Management, National Park Service, and Forest Service. Includes National Parks, Forests, Monuments; Wildlife Sanctuaries, Preserves, Refuges; Federal Wilderness Areas.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

GNIS Hospitals: Geographic Names Information System

Source: USGS
Telephone: 888-275-8747

The Geographic Names Information System (GNIS), developed by the USGS in cooperation with the U.S. Board on Geographic Names (BGN), contains information about almost 2 million physical and cultural geographic features in the United States. The GNIS is our Nation's official repository of domestic geographic names information.

Nursing Homes

Source: National Institutes of Health
Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Colleges - Integrated Postsecondary Education Data

Source: National Center for Education Statistics
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on integrated postsecondary education in the United States.

GNIS Schools: Geographic Names Information System

Source: USGS
Telephone: 888-275-8747

The Geographic Names Information System (GNIS), developed by the USGS in cooperation with the U.S. Board on Geographic Names (BGN), contains information about almost 2 million physical and cultural geographic features in the United States. The GNIS is our Nation's official repository of domestic geographic names information.

RECORDS SEARCHED/DATA CURRENCY TRACKING

Arenas

Source: Dunhill International

EDR indicates the location of buildings and facilities - arenas - where individuals who are public receptors are likely to be located.

Prisons: Bureau of Prisons Facilities

Source: Federal Bureau of Prisons

Telephone: 202-307-3198

List of facilities operated by the Federal Bureau of Prisons.

Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041