

BP Amoco



780

October 27, 2000

Alameda County Health Care Services Agency
Attention Mr. Amir K. Gholami - REHS
1131 Harbor Bay Parkway, STE 250
Alameda, CA 94502-6677

RE: Former BP Oil Site No. 11107
18501 Hesperian Boulevard
San Lorenzo, CA

Scott T. Hooton
Portfolio Manager

BP Exploration & Oil Inc.
295 SW 41st Street
Bldg. 13, Ste. "N"
Renton, Washington 98055

Phone: (425) 251-0689
Fax: 425-251-0736
Internet: hootonst@bp.com

A BP Amoco G.

Handwritten notes:
Winters
11/4/2000

Dear Mr. Gholami:

This transmits the *Potential Receptor Survey, Expanded Site Plan and Well Search* prepared on behalf of BP by Alisto Engineering Group.

Please contact me at (425) 251-0689 if you have questions.

Sincerely,

Scott Hooton

attachment

cc: site file
David Camille - Tosco (w/attachment)
Khaled Rahman - Cambria (w/attachment)

00 NOV - 1 PM 5:03

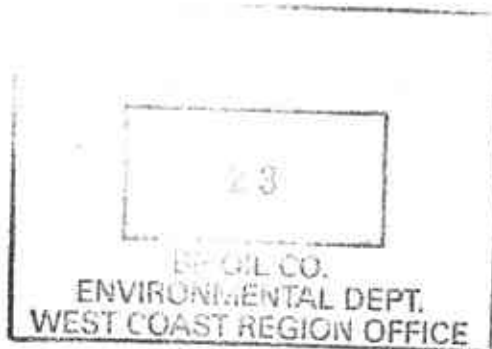
ENVIRONMENTAL PROTECTION

11107-16



ALISTO ENGINEERING GROUP

October 19, 2000



Mr. Scott Hooton
Environmental Resources Management
BP Oil Company
295 S.W. 41st Street
Building 13, Suite N
Renton, Washington 98055

10-060-08-05

Subject: Potential Receptor Survey, Expanded Site Plan and Well Search
BP Oil Company Service Station No. 11107
18501 Hesperian Boulevard
San Lorenzo, California

Handwritten signature and date: 1/4/2001

Dear Mr. Hooton:

Alisto Engineering Group is pleased to submit the completed BP Oil Potential Receptor Survey, the expanded site plan and utility map, and the results of the well search to identify wells in the vicinity of BP Oil Company Service Station No. 11107, 18501 Hesperian Boulevard, San Lorenzo, California.

A review of the files of the State of California Department of Water Resources (DWR) was performed to identify all wells within a one-half-mile radius of the site. The results of the well search reveal that there are 24 wells other than onsite monitoring wells. Of these, 14 are offsite monitoring or test wells, four are irrigation wells, three are domestic wells, three are destroyed wells, and three are offsite irrigation wells.

Attached for your use are the following:

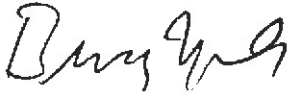
- The completed Potential Receptor Survey
- Expanded Site Plan and Utility Map showing the locations of nearby offsite properties and structures, including the locations of underground utilities
- Table presenting available property addresses and owners by assessor's parcel number
- Well Location Map
- Well Survey Summary Table
- Water Well Drillers Reports

Mr. Scott Hooton
October 19, 2000
Page 2

Please call if you have questions or comments.

Sincerely,

ALISTO ENGINEERING GROUP



Brady Nagle
Project Manager

Enclosures

Potential Receptor Survey

Site # 11107

Site # 11117
 Address 18501 Hesperian Blvd.
 City/State San Lorenzo, CA
 County Alameda
 Quadrangle Latitude 37° 40' 16"
 Longitude 122° 07' 17"

Signature of Preparer: *William A. Bly*
 Company: Alisto Engineering Group
 Date: 4/7/00

1. Potential Receptors

Provide Information for the following potential receptors	Yes/No	Field Verify	Date Verify	Distance	Direction	Depth
		Y/N		Complete as appropriate		
Is a basement or subsurface foundation within 100 feet of the source or source area?	N	Y	4/7/00	NA	NA	
Is a school within 1000 feet of the source or source area?	Y	Y	4/7/00	1000 FT	W	
Is a storm sewer within 50 feet of the source or source area?	Y	Y	4/7/00	30 FT	E	Unknown
Is a sanitary sewer within 50 feet of the source or source area?	Y	Y	4/7/00	30 FT	E	Unknown
Is a septic system leach field within 50 feet of the source or source area?	N	Y	4/7/00	NA	N	
Is a water line main within 50 feet of source or source area?	Y	Y	4/7/00	20 FT	NA	Unknown
Is a natural gas line main within 50 feet of the source or source area?	Y	Y	4/7/00	20 FT	N	Unknown
Is a buried telephone/television cable main within 50 feet of the source or source area?	Y	Y	4/7/00	20 FT	N	Unknown
Is a buried electrical cable main within 50 feet of source or source area?	Y	Y	4/7/00	20 FT	N	Unknown
Is a subway within 1000 feet of the source or source area?	N	Y	4/7/00	NA	NA	NA
Is the bedrock area prone to dissolution along joints or fractures within 100 feet of the source or source area?	N	Y	4/7/00			
Is there a fault or known fracture within 100 feet of the source or source area?	N	Y	4/7/00			

Potential Receptor SurveySite # 11117

Site Visit, PG&E, Pacific Bell, ERMUD,

Source of information Geologic Maps of Upper Cenozoic Deposits in Central CA, 1993Verified By William Bir Date 4/7/00**2. Sensitive Areas**

Provide Information for the following potential receptors	Yes/No	Field Verify	Date Verify	If yes, give a brief explanation of classification
	Y/N		Complete as appropriate	
Is this property classified as a sensitive area?	N	Y	4/7/00	

Source of information California Department of Fish and Game Website *Verified By William Bir Date 4/7/00**3. Drinking Water Supply**

Provide Information for the following potential receptors	Yes/No	Field Verify	Date Verify	Distance	Direction	Production Rate
	Y/N		Complete as appropriate			
Is a public water supply well within 3 miles of the source or source area?	N	Y	4/7/00			
Is a public water supply intake within 3 miles of the source or source area?	N	Y	4/7/00			
Is a private water supply well within 0.5 miles of the source or source area?	N	Y	4/7/00			

Note: Field verified by Alisto staff visits to each potential water-supply well.

Source of information California Department of Water Resources **Verified By William Bir Date 4/7/00

* California Department of Fish and Game Website; Habitat Conservation Division; Wetlands Inventory and Conservation Unit; View Maps; Wetland and Riparian Classification for Bay Area Region of California (urban areas listed as "other")

**Review of DWR Well Data Sheets from the Sacramento office.

Potential Receptor Survey

Site # 11117

4. Surface Water Body

Provide Information for the following potential receptors	Yes	No	If yes, provide the following information.	
	Check one		Complete as appropriate	
Are there surface waters located within 1000 feet of the property?		<input checked="" type="checkbox"/>	Name	
			Type	
			Distance from property	
			Direction from property	
			Name	
			Type	
			Distance from property	
			Direction from property	

Source of information U.S.G.S. Hayward Quad

Verified By William Bir Date 4/7/00

5. Describe type of local water supply:

Public Private

Supplier's Name East Bay Municipal Utilities District

Supplier's water supply source Mokelumne River

Water supply source distance and direction from property Approximately 150 Miles East

Intake distance and direction from property NA

Source of information EBMUD

Verified By William Bir Date 4/7/00

6. Aquifer Classification (include a brief explanation for classification)

Class I: Special Ground Waters, Irreplaceable Drinking Water Source or Ecologically Vital

Class II: Current or Potential Drinking Water Source

Class III: Not Potential Source of Drinking Water

Potential Receptor SurveySite # 11117Is this a sole source aquifer? Yes No Depth to top of aquifer: UnknownSource of information California Department of Water ResourcesVerified By William Bir Date 4/7/00**7. Describe monitoring wells, if any:**Number: 7Free Product: Yes No Well(s) _____Source of information Alisto Engineering GroupVerified By William Bir Date 4/7/00**8.0 Relevant Ecological Receptors and Habitats****8.1 Property Characteristics**

Size of Property (acres)	→	0.43
% of property that is wooded	→	0%
Dominant tree type	→	NA
% of property that is scrub/shrub	→	2%
Dominant Vegetation	→	Ornamental
% of property that is open land	→	0%
% of property that is grass area	→	0%
% of property that is agricultural crops	→	0%
% of property that is barren	→	0%
% of property that is commercial or industrial use including paved areas	→	98%

Source of information Site VisitVerified By William Bir Date 4/7/00

Potential Receptor Survey

Site # 11117

8.2 Fauna

List any fauna (e.g., mammals, birds, fish, reptiles) that are either observed or evidenced to be on property.	→	None
	→	
	→	
	→	
	→	
	→	
	→	
	→	

Source of information Site Visit

Verified By William Bir Date 4/7/00

8.3 Water Bodies on the Property

Identify the type of water body (e.g., river, creek, lake, stream)	→	None
Is water body naturally developed or man made?	→	NA
List the uses of the water body	→	NA
What is the source of the water for the water body	→	NA
What is the nature of the bottom of the water body (e.g., rocky or concrete bottom, drainage ways or impoundments)	→	NA
Describe the observed biota	→	NA

Source of information Site Visit

Verified By William Bir Date 4/7/00

Potential Receptor Survey

Site # 11117

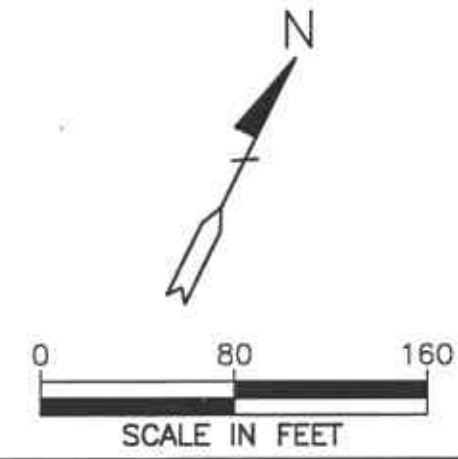
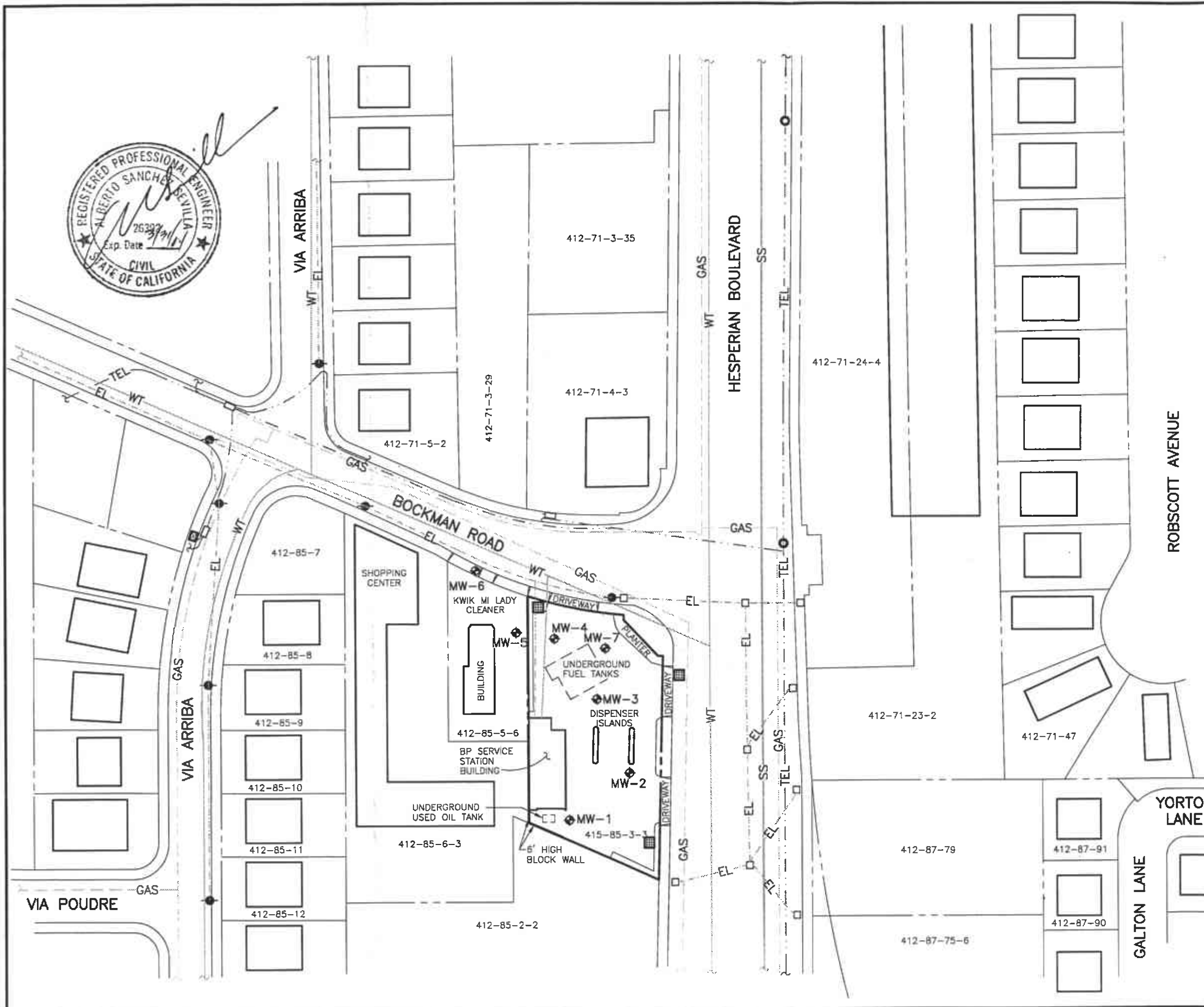
8.4 Wetlands

Are there any wetlands present on the property?	→	No
Describe the type of vegetation present	→	NA
Identify the source of water	→	NA
Is the wetlands influenced by tidal changes?	→	NA
Describe the observed biota	→	NA

Source of information Site Visit

Verified By William Bir Date 4/7/00





- LEGEND**
- ◆ GROUNDWATER MONITORING WELL
 - 415-85-3-3 ASSESSOR'S PARCEL NUMBER
 - DROP INLET GRATE
 - MANHOLE
 - ABOVE/UNDERGROUND TRANSFORMER
 - ▣ TELEVISION CABLE VAULT
 - SSCOO SANITARY SEWER CLEANOUT
 - FIRE HYDRANT
 - ⊗ VALVE
 - ◆ POWER POLE

- UNDERGROUND UTILITY LINES**
- SS — SANITARY SEWER PIPE
 - SD — STORM DRAIN PIPE
 - WT — WATER SERVICE PIPE
 - GAS — GAS PIPE
 - - - EL - - - ELECTRICAL LINE
 - - - TEL - - - TELEPHONE LINE
 - - - TCL - - - TELEVISION CABLE LINE
 - > UNKNOWN DESTINATION
 - | END OF PIPE
 - (?) INVERT ELEVATION RELATIVE TO BENCH MARK

NOTE:
 Location of utilities are approximate and based upon information provided at time of preparation. This map is not be used for any construction or related activities.

BP OIL SERVICE STATION NO. 11107
 18501 HESPERIAN BOULEVARD
 SAN LORENZO, CALIFORNIA
 PROJECT NO. 10-060



1000000-DWG 12-18-08 RWK 11-00

ADJACENT PROPERTIES
BP OIL COMPANY SERVICE STATION NO. 111107
18501 HESPERIAN BOULEVARD, SAN LORENZO, CALIFORNIA

APN	Property Address	Owner
412-85-3-3	18501 Hesperian Boulevard San Lorenzo, CA 94541	First Interstate Bank of California c/o: Property Tax Department DC-17 P.O. Box 52085 Phoenix, AZ 85072
412-85-5-6	664 Bockman Road San Lorenzo, CA 94580	L.C. Gehrke & Ronald & Conrad c/o: Kwik Mi Lady Cleaner 21000 Mission Boulevard Hayward, CA 94541
412-85-6-3	676 Bockman Road San Lorenzo, CA 94580	Thomas & Patricia Reed 2916 Dolores Way Burlingame, CA 94010
412-85-7	688 Bockman Road San Lorenzo, CA 94580	Michael & Maxine Manafy 688 Bockman Road San Lorenzo, CA 94580
412-85-8	18200 Via Arriba San Lorenzo, CA 94580	Emile Darregauche 18200 Via Arriba San Lorenzo, CA 94580
412-85-9	18250 Via Arriba San Lorenzo, CA 94580	Brian D. & Pamela J. Fogel 18250 Via Arriba San Lorenzo, CA 94580
412-85-10	18300 Via Arriba San Lorenzo, CA 94580	Frederick W. & Doreen Fernandez 18300 Via Arriba San Lorenzo, CA 94580
412-85-11	18350 Via Arriba San Lorenzo, CA 94580	Stephen Choy 7856 Pineville Circle Castro Valley, CA 94552
412-85-12	18400 Via Arriba San Lorenzo, CA 94580	Patrocinio G. & Vicentia G. Cespedes 18400 Via Arriba San Lorenzo, CA 94580
412-85-2-2	18701 Hesperian Boulevard San Lorenzo, CA 94541	Hayward Area Recreation & Park District P.O. Box 5000 Hayward, CA 94540
412-85-1-2	19125 Hesperian Boulevard San Lorenzo, CA 94541	Hayward Area Recreation & Park District P.O. Box 5000 Hayward, CA 94540
412-71-5-2	17980 Via Arriba San Lorenzo, CA 94541	Elizabeth C.O. Thayer 17980 Via Arriba San Lorenzo, CA 94580
412-71-6	17964 Via Arriba San Lorenzo, CA 94541	Frank & Alzira Paira 17964 Via Arriba San Lorenzo, CA 94580
412-71-7	17948 Via Arriba San Lorenzo, CA 94541	Donald & Heather Albright 17948 Via Arriba San Lorenzo, CA 94580

412-71-3-29	18401 Hesperian Boulevard San Lorenzo, CA 94541	O.E. Bohannon 60 Hillsdale Mall San Mateo, CA 94403
412-71-4-3	18499 Hesperian Boulevard San Lorenzo, CA 94541	O.E. Bohannon 60 Hillsdale Mall San Mateo, CA 94403
412-71-3-35	18401 Hesperian Boulevard San Lorenzo, CA 94541	O.E. Bohannon 18401 Hesperian Boulevard San Lorenzo, CA 94580
412-71-24-4	18030 Hesperian Boulevard San Lorenzo, CA 94541	Lorenzo Manor Inc. 5032 Las Cruces Court San Jose, CA 95118
412-71-23-2	17630 Hesperian Boulevard San Lorenzo, CA 94541	Lorenzo Manor Inc. 5032 Las Cruces Court San Jose, CA 95118
412-71-48	18655 Robscott Avenue San Lorenzo, CA 94541	Sam J. Scaffani 18655 Robscott Avenue Hayward, CA 94541
412-71-47	18631 Robscott Avenue San Lorenzo, CA 94541	Max & Christine Fountain 18631 Robscott Avenue Hayward, CA 94541
412-87-79	18600 Hesperian Boulevard San Lorenzo, CA 94541	George Hatakeda c/o: Leslie K. Hatakeda 2059 150th Avenue San Leandro, CA 94578
412-87-75-6	18700 Hesperian Boulevard San Lorenzo, CA 94541	McDonalds Corporation c/o: Jack W. Larson 3354 Deer Hollow Drive Danville, CA 94506
412-87-75-4	18906 Hesperian Boulevard San Lorenzo, CA 94541	John K. Morrison 4118 North Randolph Street Arlington, VA 22207
412-87-91	18606 Galton Lane San Lorenzo, CA 94541	Richard & Mercedes Mendoza 18606 Galton Lane Hayward, CA 94541
412-87-90	18668 Galton Lane San Lorenzo, CA 94541	Carlos Vieira 18668 Galton Lane San Lorenzo, CA 94541



● WELL LOCATION

SOURCE:
USGS MAP, HAYWARD & SAN LEANDRO QUADRANGLES,
7.5 MINUTE SERIES, 1959.
PHOTOREVISED 1980.



QUADRANGLE LOCATION



WELL LOCATION MAP

BP OIL SERVICE STATION NO. 11107
18501 HESPERIAN BOULEVARD
SAN LORENZO, CALIFORNIA

PROJECT NO. 10-060



ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

WELL SURVEY
BP Oil Co. Service Station No. 11107
18501 Hesperian Boulevard
San Lorenzo, California

Alisto Project No. 10-060

COUNTY WELL NO.	ALISTO MAP REFERENCE NO.	OTHER WELL NO.	WELL OWNER	WELL DEPTH (feet)	SEAL DEPTH (feet)	WELL USE	STATUS
3S/2W18G7	1	MW-7	ARCO P.O. Box 5811 San Mateo, CA 94402	19	5	Monitoring	Active
3S/2W18G8	1	MW-8	ARCO P.O. Box 5811 San Mateo, CA 94402	21.5	5	Monitoring	Active
3S/2W18G9	1	MW-9	ARCO P.O. Box 5811 San Mateo, CA 94402	19.5	5	Monitoring	Active
3S/2W18G10	1	MW-10	ARCO P.O. Box 5811 San Mateo, CA 94402	23	5	Monitoring	Active
3S/2W18G1	1	MW-11	ARCO P.O. Box 5811 San Mateo, CA 94402	20	5	Monitoring	Active
3S/2W18G12	1	E1-A	ARCO P.O. Box 5811 San Mateo, CA 94402	26	5	Monitoring	Active
3S/2W18G3	1	MW-1	ARCO Petroleum Co. 515 S. Flower Street Los Angeles, CA 90071	28	4.3	Test Well	Active
3S/2W18G4	1	MW-5	ARCO Petroleum Co. 515 S. Flower Street Los Angeles, CA 90071	14	3	Test Well	Active
3S/2W18G13	1	MW-13	ARCO P.O. Box 5811 San Mateo, CA 94402	23	6	Monitoring	Active
3S/2W18G14	1	MW-14	ARCO P.O. Box 5811 San Mateo, CA 94402	23	7	Monitoring	Active
3S/2W18G15	1	MW-15	ARCO P.O. Box 5811 San Mateo, CA 94402	23	7	Monitoring	Active
3S/2W18G16	1	MW-16	ARCO P.O. Box 5811 San Mateo, CA 94402	24.5	7	Monitoring	Active
3S/2W18G17	1	MW-17	ARCO P.O. Box 5811 San Mateo, CA 94402	23	7	Monitoring	Active

WELL SURVEY
BP Oil Co. Service Station No. 11107
18501 Hesperian Boulevard
San Lorenzo, California

Alisto Project No. 10-060

COUNTY WELL NO.	ALISTO MAP REFERENCE NO.	OTHER WELL NO.	WELL OWNER	WELL DEPTH (feet)	SEAL DEPTH (feet)	WELL USE	STATUS
3S/2W18G18	1	MW-24	ARCO P.O. Box 5811 San Mateo, CA 94402	21	5	Monitoring	Active
3S/2W18J	2		Fred Lourie 1238 Bartlett Ave. Hayward, CA	202	50	Domestic	Unknown
3S/2W18J02	3		Kaufman & Broad 39180 Liberty St, # 101 Fremont, CA 94538	91	85	Unknown	Destroyed
3S/2W18J8	4		Frank Del Ru 1266 Bartlett Ave Hayward	95	15	Domestic	Unknown
3S/2W18K3	5		HARD P.O. Box 698 Hayward, CA 94543	155	20	Irrigation	Active
3S/2W18K8	6		HARD Kennedy Park Hayward	48	Unknown	Unknown	Destroyed
3S/2W18K82	7		HARD Kennedy Park Hayward	108	Unknown	Unknown	Destroyed
3S/2W18G1	8		Lewis W. Barton 18451 Robscott Ave. Hayward, CA 94541	25	16	Domestic	Unknown
3S/2W18F4	9		Wallace W. LeRoy 17061 Via Perdido Hayward, CA 94580	25	Unknown	Irrigation	Unknown
3S/2W18C1	10		Horace Robertson 17127 Via Floras San Lorenzo, CA 94580	25	11	Irrigation	Unknown
3S/2W18F?	11		P.F. Neal 840 Hacidnda Avenue San Lorenzo, CA 94580	29.5	15	Irrigation	Unknown

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

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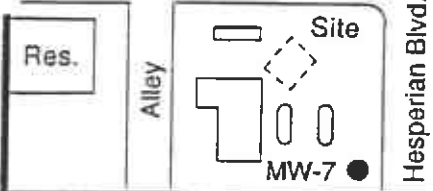
33306 35/20-1867

LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

WELL / MW-7
BORING NO.
PAGE 1 OF 1



PROJECT NO. 330-06.06
LOGGED BY: DKU/JC
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020"
GRAVEL PACK: 12 X 20 SAND

CLIENT: ARCO
DATE DRILLED: 3-29-90
LOCATION: San Lorenzo
HOLE DIAMETER: 8"
HOLE DEPTH: 22'
WELL DEPTH: 19'
WELL DIAMETER: 3"

WELL COMPLETION	MOISTURE CONTENT	HHU READING (PPM)	PENETRATION RESISTANCE (BLOWS/FT)	DEPTH (FEET)	SAMPLE	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
				2			SC	ASPHALT; fill; 4"
				4			CH	CLAYEY SAND; fill; medium to light brown; 20-30% fines; 20-40% sub-angular gravel; iron oxide staining; dense; no product odor.
			21	6				CLAY; dark brown; 5-10% fine sand altered; very stiff; no product odor.
				8			ML	@5.5': light yellowish brown; 10-20% fine sand; platy; shell fragments; very stiff; no product odor.
			7	10				SILT; dark greenish gray; poorly graded; firm; no product odor.
				12				
			12	14			CL	CLAY; yellowish brown; 20-40% fines sand; iron oxide black specks; mottled; rootholes; stiff; no product odor.
				16				
				18				
			20	20			ML	AS ABOVE; grading into silt.
			9	22			SM	SILTY SAND; medium brownish yellow; poorly graded; low to moderate plasticity; loose; no product odor.
				24				
				26				
				28				
				30				
				32				
				34				
				36				
				38				
				40				
				42				
				44				



BOTTOM OF BORING AT 22'
WELL ELEVATION 34.40' MSL

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

332623

35/20-1848

LOCATION MAP



MW-8

Res.

Alley

Site

Hesperian Blvd.

PACIFIC ENVIRONMENTAL GROUP, INC.

WELL / MW-8
BORING NO.
PAGE 1 OF 1

PROJECT NO. 330-06.06
LOGGED BY: DKU/JC
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020"
GRAVEL PACK: 12 X 20 SAND

CLIENT: ARCO
DATE DRILLED: 3-29-90
LOCATION: San Lorenzo
HOLE DIAMETER: 8"
HOLE DEPTH: 21.5'
WELL DEPTH: 21.5'
WELL DIAMETER: 3"

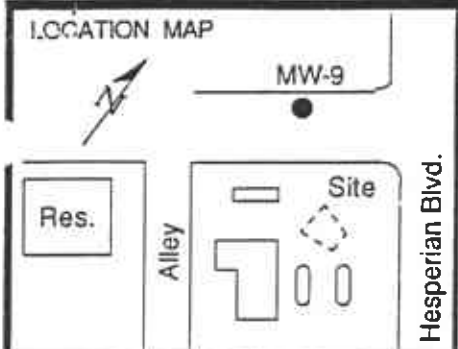
WELL COMPLETION	MOISTURE CONTENT	H-NU READING (PPM)	PENETRATION RESISTANCE (BLOWS/FT)	DEPTH (FEET)	SAMPLE	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
				2			SC	ASPHALT; fill; 4"
				4			CL	CLAYEY SAND; fill; light brown; 30-45% gravel
				4			CH	CLAY; dark brown
				6				CLAY; yellowish brown to very dark brown; concretions; roots; .25" bed clayey sand; @4.5': shell fragments; light gray patches (3-5 mm); stiff; no product odor.
				8				
				10				@10': as above with 1/2" -1" organic layers.
				10			SM	SILTY SAND; medium greenish gray; 40% silt and clay; 50% fine sand; 10% medium sand; loose; no product odor.
				12				
				14				
				16			CL	CLAY; greenish gray with brown clay; moderate plasticity; 30-40% fine sand; plasticity; black specks; iron oxide stains; stiff no product odor.
				18				
				20				@20': clay; yellowish brown; moderate to high plasticity; 10-15% fine sand; black 3-5 mm specks; shell fragments; very stiff; no product odor.
				22				
				24				
				26				
				28				
				30				
				32				
				34				
				36				
				38				
				40				
				42				
				44				

BOTTOM OF BORING AT 21.5'
WELL ELEVATION 32.79' MSL

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED



PACIFIC ENVIRONMENTAL GROUP, INC.

WELL / MW-9
BORING NO.
PAGE 1 OF 1

PROJECT NO. 330-06.06
 LOGGED BY: JC/DKU
 DRILLING METHOD: HSA
 SAMPLING METHOD: CAL MOD
 CASING TYPE: Sch 40 PVC
 SLOT SIZE: 0.020"
 GRAVEL PACK: 12 X 20 SAND

CLIENT: ARCO
 DATE DRILLED: 4-5-90
 LOCATION: San Lorenzo
 HOLE DIAMETER: 8"
 HOLE DEPTH: 22.0'
 WELL DEPTH: 19.5'
 WELL DIAMETER: 3"

WELL COMPLETION	MOISTURE CONTENT	H-NU READING (PPM)	PENETRATION RESISTANCE (BLOWS/FT)	DEPTH (FEET)	SAMPLE	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
CEMENT				2			CL	ASPHALT; fill; very compacted gravel at 6"
				4			CH	CLAY; very dark gray to black; moderate plasticity; 10-15% gravel; 15-30% fine to medium sand; stiff; no product odor.
				6			CH	CLAY; dark yellowish brown; moderate to high plasticity; 20% fine sand; weak platy structure; vertical gray alteration; interbedded with black clay.
				8			SM	SILTY SAND; dark greenish gray; 10-20% clay; loose; faint product odor.
				10			SM	
				12			CL-	CLAY; yellowish brown; low to moderate plasticity; 20-40% fine sand and silt; 0.5-1.5 cm rootholes; wet with gray coating; vertical water migration; black specks; firm; no product odor.
				14			CL-	
				16			CL-	
				18			CL-	
				20			CL-	@19': rootholes smaller; iron and manganese oxide; trace of coarse sand; stiff; no product odor.
				22			SM	SILTY SAND; yellowish brown.
				24				
				26				
				28				
				30				
				32				
				34				
				36				
				38				
				40				
				42				
				44				

BOTTOM OF BORING AT 22'
 WELL ELEVATION 32.11' MSL

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

LOCATION MAP

PACIFIC ENVIRONMENTAL GROUP, INC.

WELL / MW-10
BORING NO.
PAGE 1 OF 1

PROJECT NO. 330-06.06 CLIENT: ARCO
 LOGGED BY: JC DATE DRILLED: 4-5-90
 DRILLING METHOD: HSA LOCATION: San Lorenzo
 SAMPLING METHOD: CAL MOD HOLE DIAMETER: 8"
 CASING TYPE: Sch 40 PVC HOLE DEPTH: 25.5'
 SLOT SIZE: 0.020" WELL DEPTH: 23.0'
 GRAVEL PACK: 12 X 20 SAND WELL DIAMETER: 3"

WELL COMPLETION	MOISTURE CONTENT	H-NU READING (PPM)	PENETRATION RESISTANCE (BLOWS/FT)	DEPTH (FEET)	SAMPLE	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
				2			CL	ASPHALT; fill CLAY; dark brown to brown; moderate plasticity; 10-20% fine sand; trace of coarse sand; weak platy structure; rootholes; firm; no product odor.
	Mst	0.0	PUSH	4				
	Mst	0.0	10	10				@9': as above with fine to medium grained poorly graded sand; 6" sand layer; 10-20% silt; clay in sand layer.
	Wt	8.0	12	14			SM-ML	SILTY SAND; dark greenish gray; extensive iron oxide stain; rootholes. @13': 50-70% silt and clay; 30-40% fine sand; stiff; no product odor.
	Wt	1.0	6	20			CH	CLAY; medium brown to gray; high plasticity; 30-40% fine sand; vertical veins of gray silt - clay; firm; no product odor. @24': firm; black oxidation on sand grains; light brown colored zones.
	Wt	0.0	12	24			SM	SILTY SAND; brown; interbedded with clay; 10-20% silt and clay; iron oxide; medium dense; no product odor.
					26			
					28			
					30			
					32			
				34				
				36				
				38				
				40				
				42				
				44				

BOTTOM OF BORING AT 25.5'
WELL ELEVATION 31.67' MSL

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STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

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LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

WELL / MW-11
BORING NO.
PAGE 1 OF 1

PROJECT NO. 330-06.06
LOGGED BY: JC
DRILLING METHOD: HSA
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020"
GRAVEL PACK: 12 X 20 SAND

CLIENT: ARCO
DATE DRILLED: 4-5-90
LOCATION: San Lorenzo
HOLE DIAMETER: 8"
HOLE DEPTH: 20.5'
WELL DEPTH: 19.5'
WELL DIAMETER: 3"

WELL COMPLETION	MOISTURE CONTENT	H-NU READING (PPM)	PENETRATION RESISTANCE (BLOWS/FT)	DEPTH (FEET)	SAMPLE	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
				2			CL	ASPHALT; fill
				4			CL	CLAY; yellowish brown; moderate plasticity; 10-25% fine sand; roots present; platy structure; trace coarse sand and gravel; scarce iron oxide alteration; firm; no product odor.
				6				
				8				
			7	10			SM	SILTY SAND; yellowish brown; 15-25% clay, silt and fine sand; trace oxidized black coarse sand; loose; no product odor.
				12				
				14			CL	CLAY; very dark grayish brown; 30-40% silt and fine sand; moderate plasticity; very soft; no product odor.
				16			ML	SILT; light brown; 10-25% clay; 20-30% fine sand; very stiff; no product odor.
				18				
			19	20			CL	CLAY; brown; moderate plasticity; 10-15% silt and fine sand; 1-3 millimeter black specks; very stiff; no product odor.
				22				
				24				
				26				
				28				
				30				
				32				
				34				
				36				
				38				
				40				
				42				
				44				

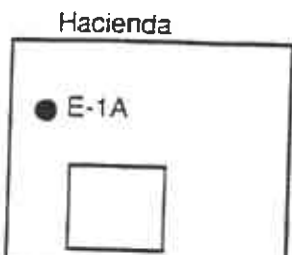
BOTTOM OF BORING AT 20.5'
WELL ELEVATION 32.54' MSL

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(WELL LOGS)

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LOCATION MAP



PACIFIC ENVIRONMENTAL GROUP, INC.

WELL / E-1A
BORING NO.
PAGE 1 OF 1

PROJECT NO. 330-06.08
LOGGED BY: JC
DRILLING METHOD: MS 145A
SAMPLING METHOD: CAL MOD
CASING TYPE: Sch 40 PVC
SLOT SIZE: 0.020"
GRAVEL PACK: 12 X 2 SAND

CLIENT: ARCO
DATE DRILLED: 7-18-90
LOCATION: San Lorenzo
HOLE DIAMETER: 12"
HOLE DEPTH: 27'
WELL DEPTH: 26'
WELL DIAMETER: 6"

WELL COMPLETION

MOISTURE CONTENT

H-NU READING (PPM)

PENETRATION RESISTANCE (BLOWS/FT)

DEPTH (FEET)

SAMPLE

GRAPHIC

SOIL TYPE

LITHOLOGY / REMARKS

WELL COMPLETION	MOISTURE CONTENT	H-NU READING (PPM)	PENETRATION RESISTANCE (BLOWS/FT)	DEPTH (FEET)	SAMPLE	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
				2			CL	CLAY; black; moderate plasticity; 10-15% silt and fine sand; trace coarse sand; very stiff; no product odor. @3': brown. @5': medium brown; 10-20% silt and fine sand; light gray
				4				
				6				
				8				
				10			SM	SILTY SAND; light bluish gray; 15-20% silt; fine sand; trace coarse sand; 5-10% gravel; medium dense; no product odor.
				12				
				14				
				16			CL-CH	CLAY; bluish gray; moderate to high plasticity; 10-15% silt and fine sand; gray mottling; very stiff; faint product odor.
				18				
				20			SM-ML	SILTY SAND; medium brown; some clay; 30-40% silt; very fine sands; medium dense; no product odor.
				22				
				24			CL	CLAY; grayish brown; moderate plasticity; 10-20% silt and fine sand; iron oxide mottling; manganese oxide; stiff; no product odor. @25.5': light grayish brown; moderate plasticity; 20-25% silt and fine sand.
				26				
				28				
				30				
				32				
				34				
				36				
				38				
				40				
				42				
				44				

BOTTOM OF BORING AT 27'

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#88019

35/2W/893

Blows/ Fl.	Sample No.	USCS	DESCRIPTION	WELL CONST.
0			Asphalt (4 inches).	
2		CH	Silty clay, black, damp, high plasticity.	
4				
14	S-5		Black-brown, stiff.	
6				
8				
10	13	SM	Silty sand, some silt, gray-green, damp, no plasticity, medium dense.	
12				
14		ML	Clayey silt, trace of coarse-grained sand, gray-green, very moist, low plasticity, medium stiff.	
16	5	S-15		
18				
20	11	CH	Silty clay, gray-green, very moist, high plasticity, stiff.	
22				
24				
26	13	S-25		
28		SM	Sand, coarse-grained, trace of fine-grained gravel and silt, no plasticity, medium dense.	
30	16	CL	Silty clay, trace of medium-grained sand, brown, moist, medium to low plasticity, very stiff.	
32			Total Depth = 31 feet. Boring terminated due to sufficient depth below ground water.	Caved



LOG OF BORING B-1/MW-1

PLATE

ARCO Station No. 608

17601 Hesperian Boulevard

San Lorenzo, California

P - 7

PROJECT NO. 87131-1

MAP REFERENCE NO. 1

#88020

35/RW/1997

DEPTH IN FEET	Blows/ Fl.	Sample No.	USCS	DESCRIPTION	WELL CONST.
0					
10	10	S-1	CH	Silty clay, black, damp, high plasticity, stiff.	
2					
4	15	S-4	CL	Silty clay, trace of coarse-grained sand and gravel, brown, damp, low plasticity, stiff.	
6	14	S-6.5		Low to medium plasticity.	
8					
11	11	S-9	SC	Clayey sand, fine- to coarse-grained sand, trace of silt, green-gray, very moist, no plasticity, medium dense.	
12	6	S-12	▼ ≡		
14	15	S-14	CH	Silty clay, green-brown, moist, high plasticity, medium stiff.	
16			CL	Silty clay, trace of medium-grained gravel, green-gray, moist, high plasticity, stiff.	
18			CH	Silty clay, brown, moist, high plasticity, medium stiff.	
20	7	S-20			
22			SP	Sand, medium- to coarse-grained, trace of gravel, brown, wet, no plasticity, medium dense.	
24	13	S-25			
26					
28					
30	9	S-30			
32	Total Depth = 30 feet. Boring terminated at sufficient depth to evaluate contamination above and below water table.				

MAP REFERENCE NO. 1



LOG OF BORING B-2/MW-5
ARCO Station No. 608
 17601 Hesperian Boulevard
 San Lorenzo, California

PLATE
P - 8

PROJECT NO. 87131-1

MW

Caved

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WELL COMPLETION REPORT
(WELL LOGS)

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PACIFIC ENVIRONMENTAL GROUP, INC.

WELL/BORING NO. MW-13
PAGE 1 OF 1

PROJECT NO. 330-06.11
 LOGGED BY: JC
 DRILLER: WHM
 DRILLING METHOD: HSA
 SAMPLING METHOD: CAL MOD
 CASING TYPE: Sch 40 PVC
 SLOT SIZE: 0.020"
 GRAVEL PACK: 2 x 12

CLIENT: ARCO
 DATE DRILLED: 06/25/91
 LOCATION: 17601 Hesperian
 HOLE DIAMETER: 8"
 HOLE DEPTH: 25 1/2'
 WELL DIAMETER: 3"
 WELL DEPTH: 23'
 CASING STICKUP: N/A

NORTHING EASTING ELEVATION

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
GROUT				2				ASPHALT - FILL; road base very dense
	Mst	-	35	4			CL	CLAY; dark brown; low plasticity 10-15% fine to coarse sand; very stiff; no product odor.
	Mst	0	32	8			SC	CLAYEY SAND; medium brown; 35-45% clayey fines; fine sand; dense; no product odor.
	V. Mst	0	26	14			CL	CLAY; grayish brown; moderate plasticity; 10-15% fine sand; trace medium sand; trace coarse sand; very stiff; no product odor.
	V. Mst	0	16	20				@19': clay medium gray; low plasticity; iron oxide; very stiff; no product odor.
	V. Mst	0	26	24				@24': as above; very stiff; no product odor.
				25 1/2				BOTTOM OF BORING AT 25 1/2'

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STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

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PACIFIC ENVIRONMENTAL GROUP, INC.

WELL/BORING NO. MW-14
PAGE 1 OF 1

PROJECT NO. 330-06.11
 LOGGED BY: JC
 DRILLER: WHM
 DRILLING METHOD: HSA
 SAMPLING METHOD: CAL MOD
 CASING TYPE: Sch 40 PVC
 SLOT SIZE: 0.020"
 GRAVEL PACK: 2 x 12

CLIENT: ARCO
 DATE DRILLED: 06/25/91
 LOCATION: Via Arriba San Loreno
 HOLE DIAMETER: 8"
 HOLE DEPTH: 24 1/2'
 WELL DIAMETER: 3"
 WELL DEPTH: 23'
 CASING STICKUP: N/A

NORTHING EASTING ELEVATION

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
				2				ASPHALT - FILL
	V. Mst	0	push	4			CL	CLAY; dark grayish brown; low plasticity; 10-15% fine sand; trace medium to coarse sand; soft; no product odor.
	Mst	0	17	10				@9': as above with organic matter; weak paty; structure stiff; faint product odor.
	V. Mst	10	33	14				@14': as above with maganese oxide.
	V. Mst	0	28	20				@19': medium brown; moderate plasticity; 10-20% silt and very fine sand; very stiff; no product odor.
	V. Mst.	0	22	24				@23': very stiff; no product odor.
				26				BOTTOM OF BORING AT 24 1/2'
				28				
				30				
				32				
				34				
				36				
				38				
				40				
				42				
				44				

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WELL COMPLETION REPORT
(WELL LOGS)

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LOCATION MAP



NORTHING EASTING ELEVATION

PACIFIC ENVIRONMENTAL GROUP, INC.

WELL/BORING NO. MW-15
PAGE 1 OF 1

PROJECT NO. 330-06.11
 LOGGED BY: JC
 DRILLER: WHM
 DRILLING METHOD: HSA
 SAMPLING METHOD: CAL MOD
 CASING TYPE: Sch 40 PVC
 SLOT SIZE: 0.020"
 GRAVEL PACK: 2 x 12

CLIENT: ARCO
 DATE DRILLED: 06/25/91
 LOCATION: Via Magdalena
 HOLE DIAMETER: 8"
 HOLE DEPTH: 24 1/2"
 WELL DIAMETER: 3"
 WELL DEPTH: 23"
 CASING STICKUP: N/A

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
				2			CL	ASPHALT - FILL; road base
				4			CL	CLAY; strong brown; low plasticity; 20-30% silt; very fine sand; weak platy structure; stiff; no product odor.
	Mst	0	push	6			CL	
				8			SM	SILTY SAND; strong brown; 20-25% silty fines; some clay; medium dense; no product odor.
	Mst	0	18	10			SM	
				12			CL	CLAY; medium grayish brown; moderate plasticity; 15-20% silt; very fine sand; blue mottling; very stiff; moderate product odor.
	V. Mst	35	24	14			CL	
				16				@19': as above without blue mottling; very stiff; no product odor.
	V. Mst	0	31	18				
				20				@23': as above; very stiff; no product odor.
	V. Mst	0	21	22				
				24				
				26				
				28				
				30				
				32				
				34				
				36				
				38				
				40				
				42				
				44				

BOTTOM OF BORING AT 24 1/2'

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(WELL LOGS)

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PACIFIC ENVIRONMENTAL GROUP, INC.

WELL/BORING NO. MW-16
PAGE 1 OF 1

PROJECT NO. 330-06.11
 LOGGED BY: JC
 DRILLER: WHM
 DRILLING METHOD: HSA
 SAMPLING METHOD: CAL MOD
 CASING TYPE: Sch 40 PVC
 SLOT SIZE: 0.020"
 GRAVEL PACK: 2 x 12

CLIENT: ARCO
 DATE DRILLED: 06/25/91
 LOCATION: Via Magdalena
 HOLE DIAMETER: 8"
 HOLE DEPTH: 24'
 WELL DIAMETER: 2"
 WELL DEPTH: 23'
 CASING STICKUP: N/A

NORTHING EASTING ELEVATION

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
GROUT SAND BENTONITE				2			SC	ASPHALT - FILL
				4				CLAYEY SAND; 30-35% clayey fines; fine sand.
	Mst	0	push	6				
				8				
	Mst	0	23	10			CL	CLAY; medium brown; moderate plasticity; 10-15% fine to coarse sand.
				12				
	V. Mst	10	29	14				@13.5': moderate product odor; blue mottling; very stiff; faint product odor.
				16				
	V. Mst	0	33	20				@20': as above without blue mottling; very stiff; no product odor.
				22				
V. Mst	0	0	24				@23-24': as above; no product odor.	
			26					
			28					
			30					
			32					
			34					
			36					
			38					
			40					
			42					
			44					

BOTTOM OF BORING AT 24 1/2'

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3082319 25720 2317



PACIFIC ENVIRONMENTAL GROUP, INC.

WELL/BORING NO. MW-17
PAGE 1 OF 1

PROJECT NO. 330-06.11
 LOGGED BY: JC
 DRILLER: WHM
 DRILLING METHOD: HSA
 SAMPLING METHOD: CAL MOD
 CASING TYPE: Sch 40 PVC
 SLOT SIZE: 0.020"
 GRAVEL PACK: 2 x 12

CLIENT: ARCO
 DATE DRILLED: 06/25/91
 LOCATION: Via Magdalena
 HOLE DIAMETER: 8"
 HOLE DEPTH: 24 1/2'
 WELL DIAMETER: 2"
 WELL DEPTH: 23'
 CASING STICKUP: N/A

NORTHING EASTING ELEVATION

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL	GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
				2			CL	ASPHALT - FILL, CLAYEY SAND
				4			CL	CLAY; black; low plasticity; 30-35% silt ; very fine sand; firm; no product odor.
	Mst	0	push	6				
	Mst	0	23	8			SC	CLAYEY SAND; yellowish brown; 20-25% clayey fines; some silt; iron oxide; medium dense; no product odor; odor reported at 13'.
				10				
				12				
	V. Mst	50	19	14			CL	CLAY; yellowish brown (extensive blue discoloration along vertical zones); mederate plasticity; 10-15% fine to coarse sand; very stiff; moderate product odor.
				16				
	V. Mst	0	23	18				@19': clay light yellowish brown; moderate plasticity; 5-10% fine to coarse sand; iron oxide; magnesium oxide; very stiff; no product odor.
				20				
	V. Mst	0	16	22				@23': stiff; no product odor.
				24				BOTTOM OF BORING AT 24 1/2'
				26				
				28				
				30				
				32				
				34				
				36				
				38				
				40				
				42				
				44				

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(WELL LOGS)

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LOCATION MAP

MW-24



Hacienda Avenue

Site

Hesperian Boulevard

NORTHING EASTING ELEVATION



PACIFIC ENVIRONMENTAL GROUP, INC.

WELL NO. MW-24

PAGE 1 OF 1

PROJECT NO. 330-06.20
 LOGGED BY: RH
 DRILLER: WEST HAZMAT
 DRILLING METHOD: HSA
 SAMPLING METHOD: CAL MOD
 CASING TYPE: Sch 40 PVC
 SLOT SIZE: 0.020"
 GRAVEL PACK: 2 X 12 SAND

CLIENT: ARCO
 DATE DRILLED: 3-17-93
 LOCATION: Hacienda Avenue
 HOLE DIAMETER: 10"
 HOLE DEPTH: 21"
 WELL DIAMETER: 2"
 WELL DEPTH: 21"
 CASING STICKUP: NA

WELL COMPLETION	MOISTURE CONTENT	PID	PENETRATION (BLOWS/FT)	DEPTH (FEET)	RECOVERY SAMPLE INTERVAL GRAPHIC	SOIL TYPE	LITHOLOGY / REMARKS
GROUT SAND BENTONITE SAND	Dp			1		SM	SILTY SAND - FILL: 10% clay; 10% silt; fine to coarse sand; subrounded to angular gravel to 3" diameter; dense; no product odor.
				2			
				3		CL	CLAY: black; moderate plasticity; 5% medium sand; stiff; no product odor.
				4			
				5			
	Dp	0		6			@5.5': trace medium sand.
	Sat	0		7			@7': dark yellowish brown; low plasticity; 10% fine sand; stiff; no product odor.
				8			
				9			
	Dp			10			@10-10.5': as above; no product odor.
				11		SC	CLAYEY SAND: dark yellowish brown; 10% clay; fine sand; loose; no product odor.
	Sat	3	8	12		SP	SAND: dark yellowish brown; fine sand; loose; no product odor.
				13			
	Sat	0		14		ML CH	CLAYEY SILT: yellowish brown; low plasticity; trace fine sand; firm; no product odor. CLAY: olive brown; high plasticity; stiff; no product odor.
				15			
			32	16			
				17			
	Sat	0		18			
				19			
			27	20			
				21			
			22				

BOTTOM OF BORING AT 21'

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WELL COMPLETION REPORT
(WELL LOGS)

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REGION _____
 COUNTY _____
 NEAR _____

DEPARTMENT OF WATER RESOURCES
 DEPARTMENT OF PUBLIC WORKS
 STATE OF CALIFORNIA

BASIN _____
 DWR No. 3S/2W-18J2 B A I
 OTHER NOS _____

WELL LOG

LOCATION _____

OWNER T. Minani ADDRESS 21626 Hesperian

DRILLED BY Murphy ADDRESS _____

DRILLING METHOD _____ GRAVEL PACKED _____ DATE COMPLETED _____

SIZE OF CASING DEPTH _____ STRUCK WATER AT _____

PERFORATIONS _____ SIZE _____ No. _____

WATER LEVEL BEFORE PERFORATING _____ AFTER _____

TEST DATA: DISCHARGE G. P. M. _____ DRAWDOWN FT. _____ HOURS RUN _____

OTHER DATA AVAILABLE: WATER LEVEL RECORD _____ ANALYSIS _____

SURFACE ELEV. _____ DATUM _____ SOURCE OF INFORMATION _____

DEPTH	ELEV. OF BOTTOM OF STRATUM	MATERIAL	THICKNESS	SP. YIELD %
0 - 4		top soil		
4 - 16		clay		
16 - 20		sticky sand, water		
20 - 28		clay		
28 - 32		sticky sand, water		
32 - 35		sand		
35 - 45		clay		
45 - 55		coarse gravel		
55 - 78		clay		
78 - 80		sand		
80 - 83		gravel		
83 - 85		clay		
85 - 89		sand and gravel		
89 - 91		clay		

FOR FIELD COPIES USE ALTERNATE LINES

LOG OBTAINED BY _____ DATE _____ SHEET 1 OF _____