

S. T. Hooton Team Leader Environmental Remediation Management

BP Exploration & Oil Inc. 295 SW 41* Street, Bldg., 13, STE N Renton, WA 98055-4931

Phone: 425-251-0689 Fax: 425-251-0736 ST10 1108

February 29, 2000

DH

BP OIL

Alameda County Health Care Services Agency Attention Ms. Juliet Shin - Hazardous Materials Specialist 1131 Harbor Bay Parkway, STE 250 Alameda, CA 94502-6577

RE:

Former BP Oil Site No. 11102

100 McArthur Boulevard (at Oakland)

Oakland, CA

Dear Ms. Shin:

This transmits the *Historical Review*, *Utility Survey and Recovery Testing Report* prepared by Cambria Environmental Technology, Inc. on behalf of BP.

Please give me a call at (425) 251-0689 if you have any questions or comments.

Sincefely,

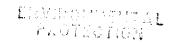
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David Camille - Tosco (w/attachment)



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HISTORICAL REVIEW, UTILITY SURVEY AND RECOVERY TESTING REPORT

BP Oil Site No. 11102 100 MacArthur Boulevard Oakland, California Cambria Project No. 852-1511-3

February 24, 2000

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ENVIRONMENTAL (*) WEST COAST REGION (



Prepared for:

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

Prepared by:

Cambria Environmental Technology, Inc. 1144 65th Street, Suite B Oakland, California 94608

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1144 65th Street Suite B Oakland, CA 94608 Tel (510) 420-0700 Fax (510) 420-9170 Jacquelyn L. Jones Staff Geologist Khaled B. Rahman, R.G., C.H.G

Senior Geologist

HISTORICAL REVIEW, UTILITY SURVEY AND RECOVERY TESTING REPORT

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February 24, 2000



INTRODUCTION

Cambria Environmental Technology, Inc. (Cambria) has prepared this *Historical Review, Utility Survey, and Recovery Testing Report* for the above-referenced BP Oil Company (BP) site. The following presents summaries of the site background, historical review, utility survey and recovery testing.

SITE BACKGROUND

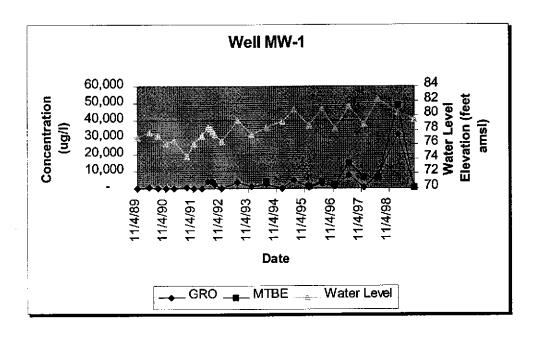
Site Description: The site is an active 76-branded gasoline retail outlet located at the intersection of MacArthur Boulevard and Oakland Avenue in Oakland, California (see Figure 1). The site is located in a mixed commercial and residential area. Another 76-branded station is located northwest of the site at the intersection of Harrison Street and MacArthur Boulevard. The MacArthur Freeway (Interstate 580), an elevated freeway, is located immediately south of the site.

BP acquired the property from Mobil Oil Corporation (Mobil) in 1989. In 1994, BP transferred the property to TOSCO Marketing Company (TOSCO) and has not operated the facility since that time.

Site Conditions: There are currently three monitoring wells at the site, MW-1, MW-2 and MW-3 (see Figure 2). Groundwater is typically encountered between 10 to 15 feet below ground surface (bgs) and the wells are screened from 11 to 32 feet bgs. The screened soils are clayey sands, clayey gravels and clays in well MW-1, silty clays, silts and clays in well MW-2, and clays in well MW-3. Groundwater has been monitored since 1989. On June 18, 1998, groundwater flowed toward the west with an estimated gradient of 0.05 foot/foot.



Hydrocarbon and MTBE Distribution: The primary compound of concern at this site is methyl tert-butyl ether (MTBE), which has been reported at concentrations of more than 10,000 micrograms per liter (μg/l) in well MW-1, located adjacent to the eastern corner of the station building near the vent lines and former used oil tank, and in MW-2, located immediately adjacent to the underground storage tanks (see Figure 3). During the 1999 monitoring events, benzene, toluene, ethylbenzene, and xylenes (BTEX) constituents were detected in wells MW-1, and well MW-2, but at concentrations that are much lower than the MTBE. Well MW-1 is located adjacent to the vent lines and northeast of the tanks and dispensers at the site.



HISTORICAL REVIEW

Historical Map Review: Sanborn fire insurance maps covering the subject site and the surrounding area were obtained from Environmental Data Resources, Inc. These maps were obtained to identify land-use in the area of the subject site. Nine maps were obtained that covered the years 1903, 1911, 1950, 1952, 1954, 1959, 1962, 1967 and 1970, and included limited coverage of the subject site and surrounding area. The maps are included in Appendix A.



1903 - The Sanborn map shows the site vicinity prior to construction of MacArthur Boulevard or the MacArthur Freeway. The site is located at the intersection of Santa Clara Avenue and Oakland Avenue. The site appears to be residential. A "windmill" is located on the western corner of East Moss Avenue and Walsworth Avenue (currently Harrison Street), approximately 200 feet north of the site. There is also a "pumphouse" located on the northern corner of Pearl and Oakland Avenue, approximately 675 feet west-southwest of the site. The remainder of the area appears to be either undeveloped or residential.

1911 – The Sanborn map includes only the immediate surrounding area of the subject site; however, nothing northwest of Walsworth (currently Harrison Street), nor southwest of Perry is included, therefore neither of the sites where the "windmill" nor the "pumphouse" are included on the map. The site appears to be residential, as does the surrounding area. The Oakland Fire Department is located on the southwest side of Santa Clara Avenue, approximately 200 feet southwest of the intersection of Santa Clara Avenue and Oakland Avenue. No other municipal facilities or wells or other potential receptors were identified.

1950 – The Sanborn map shows approximately the same area and configuration as the 1911 map of the subject area. MacArthur Boulevard is shown on this map. The site remains residential. The Oakland Fire Department has moved to the northeastern side of Santa Clara Avenue. There are facilities utilizing gas and oil and grease southeast of the site on the western corner of Oakland and MacArthur Boulevard, northeast of the site on the southern corner of Harrison Street (formerly Walsworth) and MacArthur Boulevard, and on the northern half of the site. The other surrounding areas appear to be residential. No other municipal facilities or wells or other potential receptors were identified.

1952 – No significant changes between this Sanborn map and the map for 1950 were noted.

1954 – No significant changes between this Sanborn map and the map for 1950 were noted.

1959 - The site appears to be in its current configuration, with a building in the central portion of the site and an open area on the northern portion of the site. The area north of the Oakland Fire Department, along the northeastern side of Santa Clara Avenue, has been converted from residential to office use and parking. Residences along MacArthur Boulevard are not shown and may have been razed. No other significant changes between this Sanborn map and the map for

1950 were noted.

1962 - The Sanborn map shows the MacArthur Freeway. No changes in site configuration were noted. The gas and oil and grease facilities formerly located on the western corner of Oakland Avenue and MacArthur Boulevard and on the southern corner of Harrison Street and MacArthur Boulevard no longer in exist. The other areas of the map show no significant changes from the map for 1959. No other municipal facilities or wells or other potential receptors were identified.

1967 - There is no significant change between this Sanborn map and the map for 1962.

1970 - There is no significant change between this Sanborn map and the map for 1962.

Aerial Photograph Review: Representative aerial photographs for the site vicinity were reviewed at Pacific Aerial Survey in Oakland, California. Photographs for the years of 1930, 1947, 1953, 1957, 1959, 1968, 1971, 1979, 1985 and 1996 were reviewed. The scale of the photograph from 1930 was too small to distinguish area land-use. General land-use in the site vicinity is generally consistent with the findings of the Sanborn Map review and is noted in the following sections.

3/24/47 - A house appears to be located at the subject site on the northern corner of MacArthur Boulevard and Oakland Avenue. There appears to be a service station west of the site on the southern corner of Harrison Street and MacArthur Boulevard. Residential property exists in the remainder of the area. Due to the poor resolution of the photograph, a more detailed description of the property cannot be provided.



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8/14/53 – There are no significant changes to the site and surrounding area, except that a possible service station is located to the west of the subject site on the western corner of Oakland Avenue and MacArthur Boulevard.

5/4/57 – A service station appears to be located at the site. There is also a commercial establishment, possibly a service station, on the northern corner of Harrison Street and MacArthur Boulevard. No other significant changes to surrounding area were noted.

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7/7/59 – The area west of MacArthur Boulevard and behind the apparent service stations at the western corner of Oakland Avenue and MacArthur Boulevard and at the southern corner of Harrison Street and MacArthur Boulevard, is now cleared of buildings. The area surrounding the service station at the site is still apparently residential. No further changes to the site and surrounding area were noted.

7/2/68 – The two apparent service stations at the western corner of Oakland Avenue and MacArthur Boulevard and at the southern corner of Harrison Street and MacArthur Boulevard are no longer observed. The MacArthur Freeway (I-580) has been built. No further changes to the site and surrounding area were noted.

5/19/71 – No significant changes to the site and surrounding area were noted.

9/14/79 – No significant changes to the site and surrounding area were noted.

5/15/85 - No significant changes to the site and surrounding area were noted.

8/16/96 - No significant changes to the site and surrounding area were noted.

Parcel Map Review: Parcel maps and property owner information were acquired from the Alameda County Assessor's office. Included in Appendix B is a table summarizing the assessor's parcel number, parcel use code, parcel address information, parcel owner name and parcel owner's mailing address for the parcels near the site. Also included is a summary of use codes and the assessor's parcel maps.

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UTILITY SURVEY

A subsurface utility survey was conducted to determine the location of potential preferential pathways and subsurface obstructions beneath the site vicinity. The utility survey consisted of

reviewing maps and plans acquired from TOSCO, requesting Underground Service Alert to mark

utilities, and contracting CU Surveys of San Ramon, California to conduct a geophysical survey.

The identified and inferred locations of sanitary sewer, storm drain, electrical, water, natural gas,

and telephone utility lines, and tank vent lines are shown on Figure 3.

The information reviewed indicates that MacArthur Boulevard is underlain by a sanitary sewer

and a storm drain (see Figure 3 and Appendix C). A water main is located beneath the east side of MacArthur and connects to a water main under the south side of Harrison Street. Onsite

electrical lines were identified between the station building, the underground storage tanks, the

dispenser islands, several light poles and the station sign. There is an electrical line beneath the

eastern sidewalk of MacArthur Boulevard. The tank vent lines are located between the tanks and

the eastern corner of the station building, adjacent to well MW-1. Specific depths for utilities

were not determined based on the available information. The storm drain located beneath

MacArthur Boulevard is believed to encounter groundwater at least seasonally.

RECOVERY TESTING

Personnel Present: Jacquelyn Jones, Cambria Geologist, working under the supervision of

Khaled Rahman, California Registered Geologist.

Testing Date: May 6, 1999.

Wells Tested: Wells MW-1, MW-2 and MW-3.

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(3)

Recovery Testing Method: Recovery tests were performed to estimate the hydraulic conductivity of the water-bearing zone beneath the site. The test on well MW-3 consisted of extracting groundwater from the well to an equilibrium water level using a submersible pump, measuring the depth to water as the pump was turned off, and measuring the depth to water as the well recovered. The tests on wells MW-1 and MW-2 consisted of extracting groundwater from the well to an equilibrium water level with the submersible pump, measuring the depth to water as the pump was turned off, removing the pump equipment from the well, and measuring the depth to water as the well recovered. In all three cases, measurements continued until water level recovered to approximately 80% of the initial water level.

Data Analysis: The recovery test data was analyzed by the Bouwer and Rice Method and Horslev Method for slug tests, and the Theis-Jacob Method for recovery tests using Aquifer Test for Windows, Version 2.56. The calculations assume that the wells are fully penetrating and consist of a 4-inch diameter casing installed in a 10-inch diameter borehole. Well boring logs, measurements and data plots are presented in Appendix D.

Recovery Testing Results: The static water levels were above the sandpack and screened interval in wells MW-1 and MW-2 and within the screened interval in well MW-3. During the recovery tests, approximately 3 to 4 minutes of pumping at a flow rate of approximately 5 gallons per minute resulted in 10.5 to 11 feet of drawdown in the wells.

Based on the baildown test measurements, the hydraulic conductivity values calculated for well MW-1 ranged from 9.9 x 10⁻⁵ cm/sec to 1.5 x 10⁻⁴ cm/sec, and in wells MW-2 and MW-3 ranged from 6.5 x 10⁻⁶ cm/sec to 1.7 x 10⁻⁵ cm/sec (see Table 1). The geometric mean of these values is 2.5 x 10⁻⁵ cm/sec. The calculated hydraulic conductivity values are consistent with published values for the soil types described on the boring logs for the screened depths. The calculated values are an order of magnitude higher in well MW-1, which screens across clayey sands and clayey gravels than in wells MW-2 and MW-3, which screen across silts and clays. Measurements and data plots are presented in Appendix D.

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Based on this range of hydraulic conductivity values, a typical hydraulic gradient of 0.05, an effective porosity of 0.3, and using the appropriate unit conversions, groundwater flow velocities of 1.1 to 25 feet per year are calculated using the relationship shown below.

v = ki/n

where: v = groundwater flow velocity

k = hydraulic conductivity

i = hydraulic gradient

n = effective porosity



ATTACHMENTS

Figure 1 – Vicinity Map

Figure 2 – Site Plan

Figure 3 - Conduit Study Map

Table 1 – Recovery Test Summary

Appendix A – Historical Maps

Appendix B – Assessor's Parcel Data

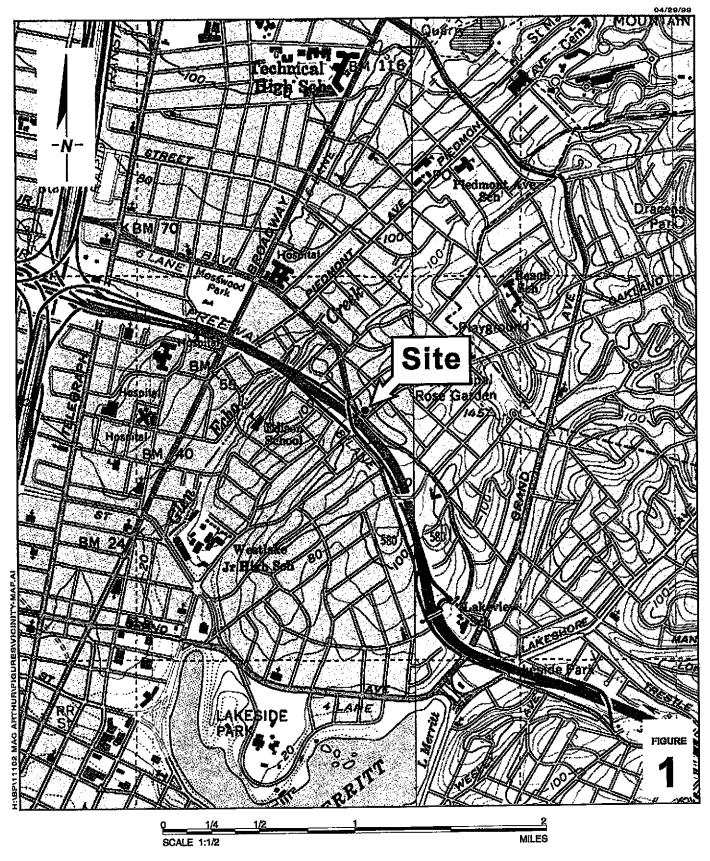
Appendix C – Utility Maps

Appendix D - Recovery Test Data and Plots

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Figures



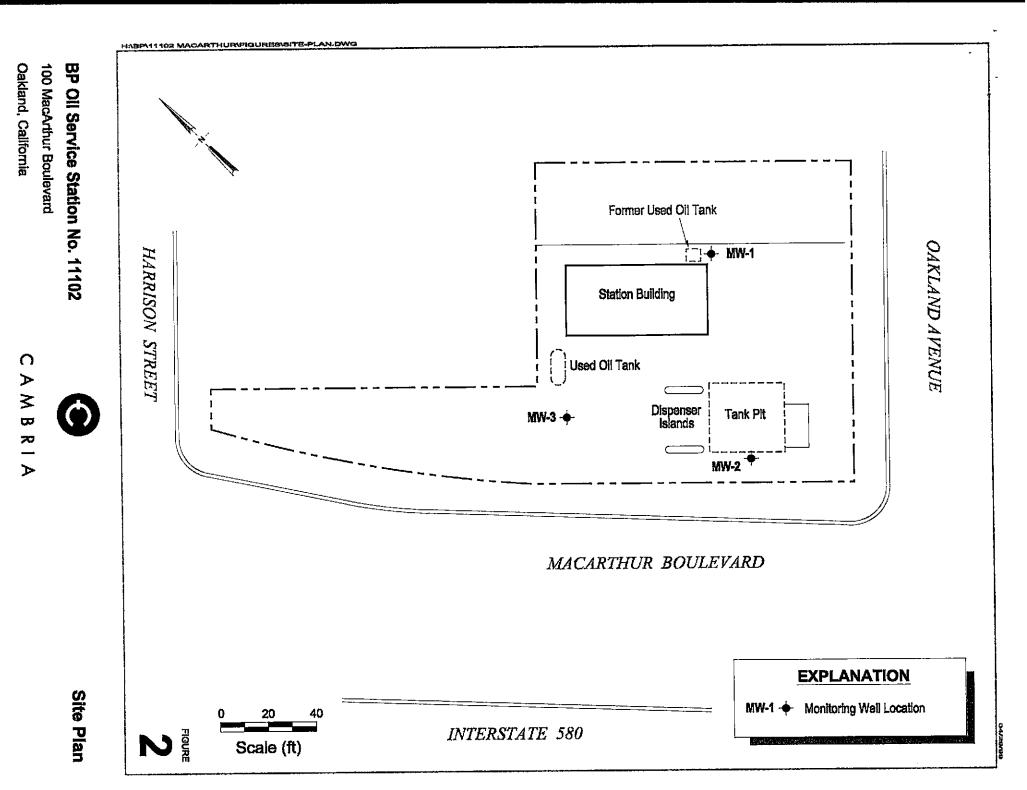
BP Oil Service Station No. 11102



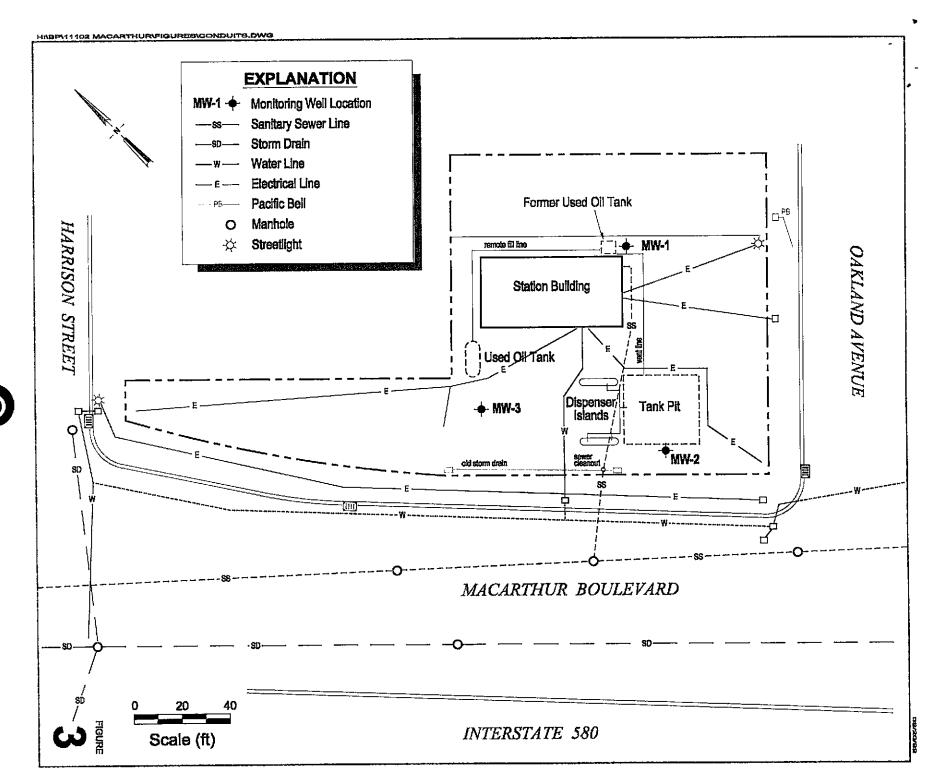
Vicinity Map

100 MacArthur Boulevard Oakland, California

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Tables

Table 1. Recovery Test Summary - BP Oil Site No. 11102 100 MacArthur Boulevard, Oakland, California

Well ID	Screened Interval (feet BGS)	Screened Soil Types	Drawdown (feet)	Calculated Water Volume (gallons)	Pumping Duration (minutes)	Approximate Flowrate (gpm)	Approximate Purge Volume (gallons)	Analytical Method	Hydraulic Conductivity (cm/sec)	Hydraulic Conductivity (ft/min)		Hydraulic Gradient	
MW-1	12-32	Clayey Sand (9-19')	10.50	17.6	4.0	5.0	20	Bouwer-Rice	9.86E-05	1.94E-04	0.3	0.05	17
		Clayey Gravel (19-29')						Horslev	1.16E-04	2.28E-04	0.3	0.05	20
		Clay (29-32')						Theis-Jacob	1.45E-04	2.85E-04	0.3	0.05	25
MW-2	12-32	Silty Clay (10-15')	11.00	18.5	3.0	5.0	15	Bouwer-Rice	6.45E-06	1.27E-05	0.3	0.05	1.1
		Clayey Silt (15-25')						Horslev	8.53E-06	1.68E-05	0.3	0.05	1.5
		Clay (25-32')						Theis-Jacob	1.60E-05	3.15E-05	0.3	0.05	2.8
MW-3	12-32	Silty Clay (12-18')	10.79	18.1	4.0	5.0	20	Bouwer-Rice	1.73E-05	3.40E-05	0.3	0.05	3.0
		Sandy Clay (18-23')						Horslev	8.69E-06	1.71E-05	0.3	0.05	1.5
		Clay (23-32')						Theis-Jacob	1.72E-05	3.38E-05	0.3	0.05	2.2
							GEOMET	TRIC MEAN	2.5E-05	4.9E-05			4.2

Abbreviations and Notes:

 $BGS = below\ ground\ surface$

cm/sec = centimeters per second

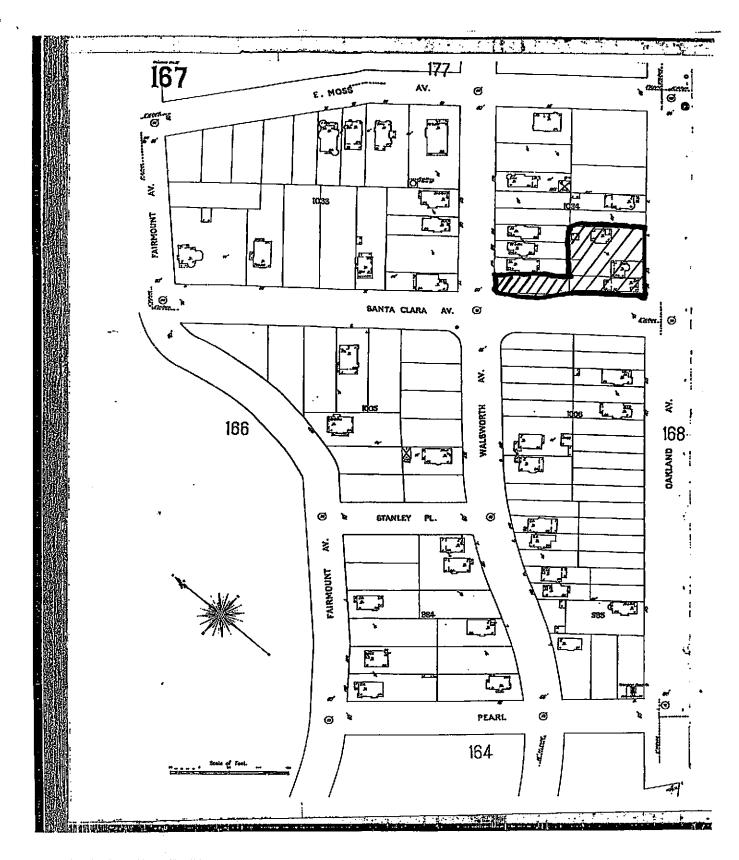
ft/min = feet per minute

ft/year = feet per year

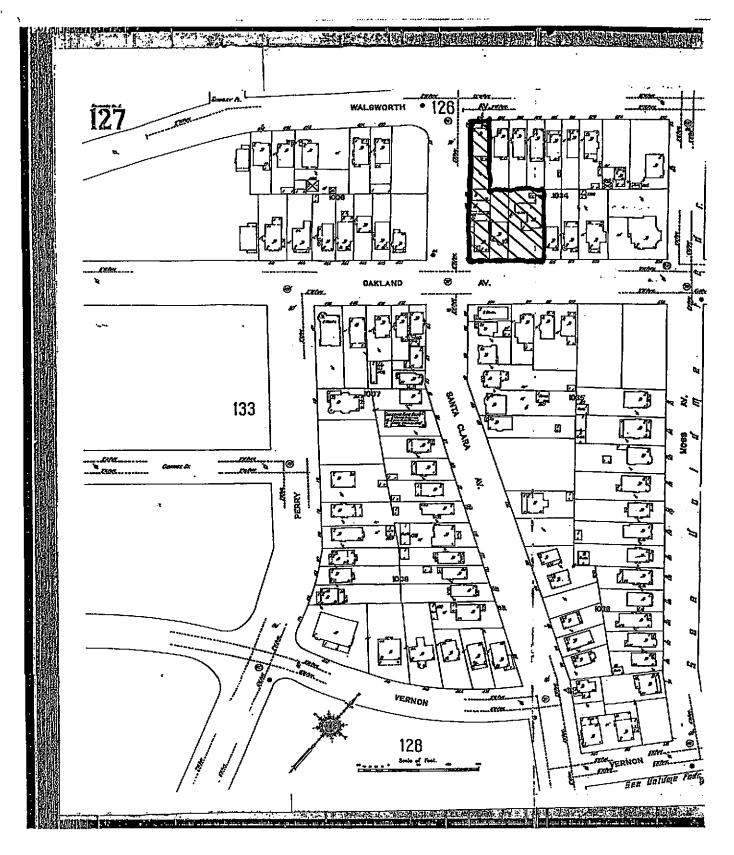


Appendix A

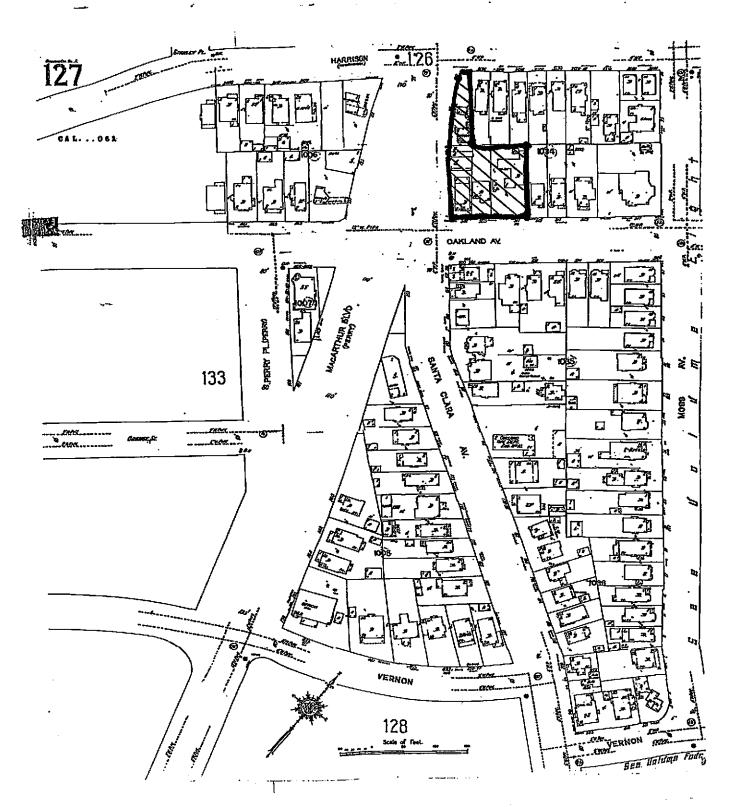
Historical Maps



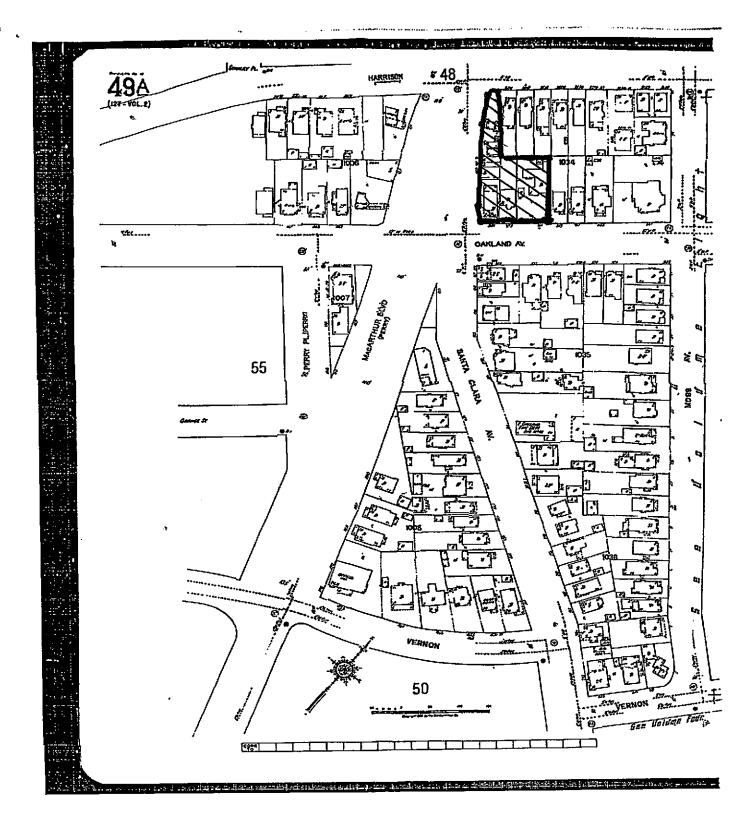




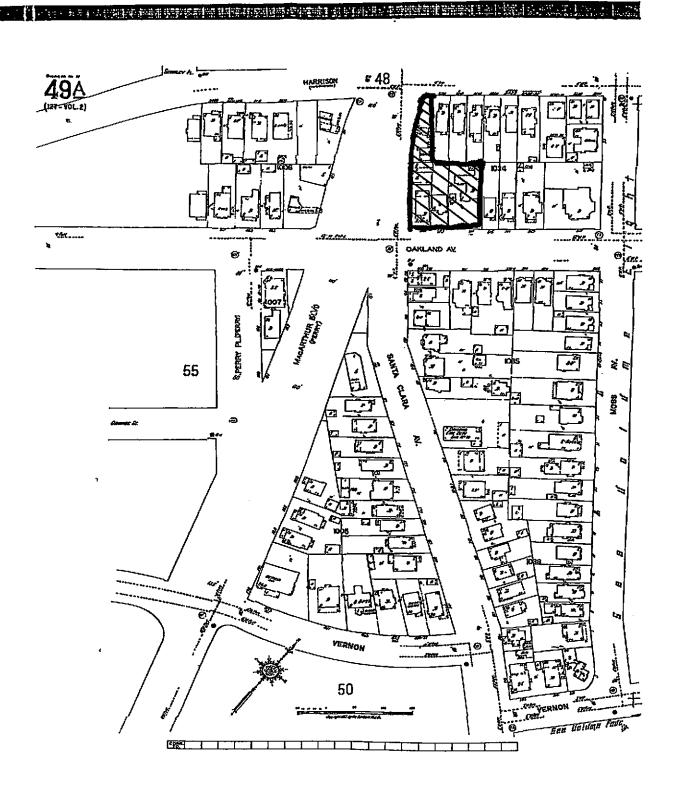




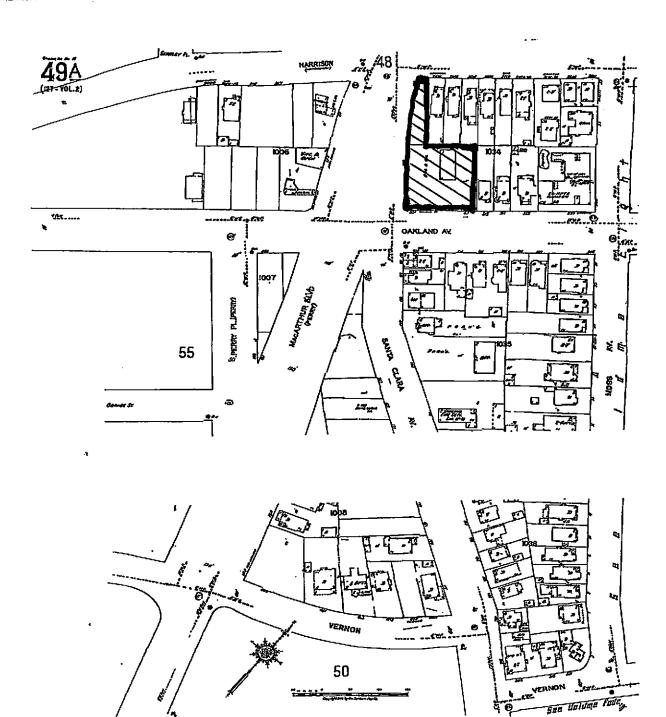






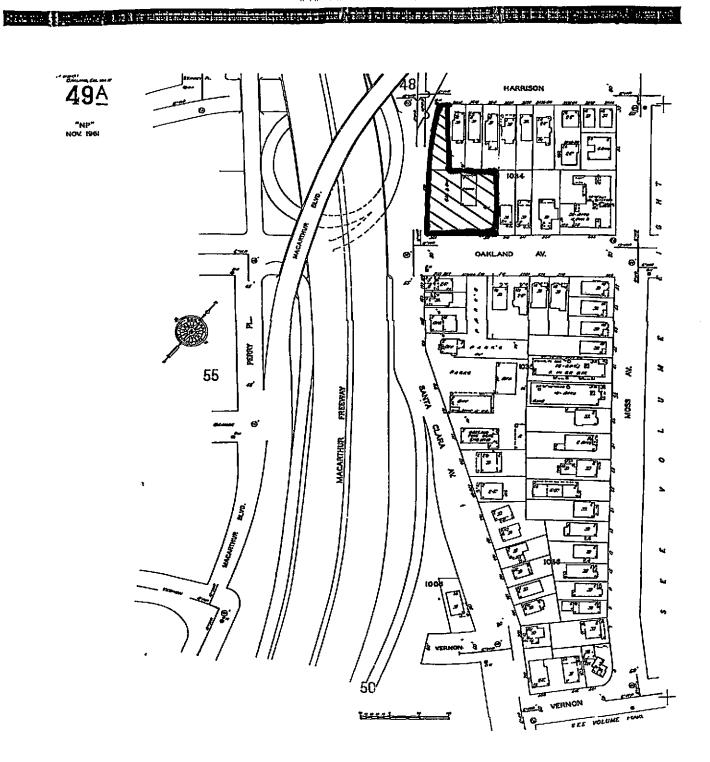




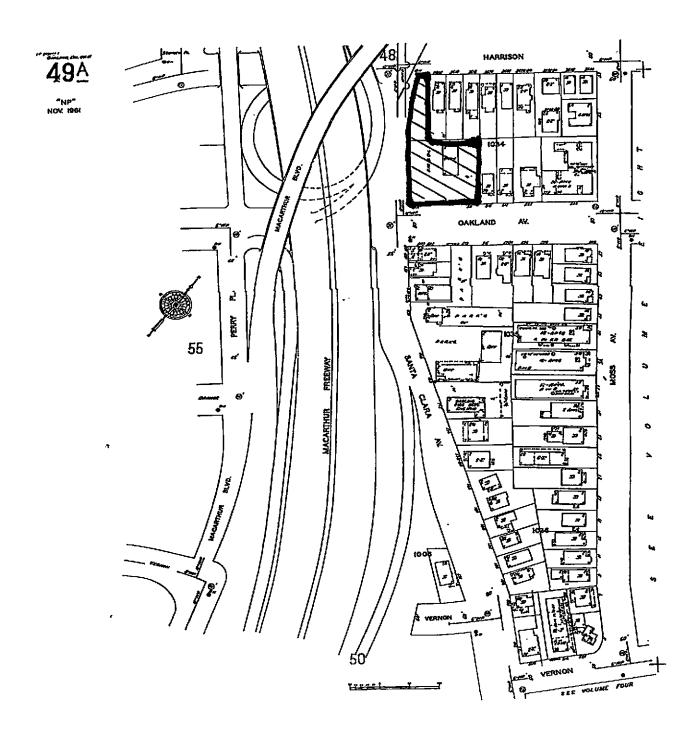




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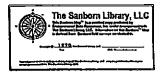








55 SEE VOLUME FOUR





Appendix B

Assessor's Parcel Data

1		A PNESS	Use Code	Situs Address	Situs City	Situs Zio	Covaetileine	Malling/Articles
Tell					OAKLAND	94611	MA SANFORD K & GLORIA F	441 MERRITT AVE, OAKLAND CA 94610
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27 010 -0813-004-01 31 66 MACARTHUR BL OAKLAND 94810 JELINEK BARBARA B TR 4567 ENTERPRISE ST, FREMONT CA 94538-7605C/O LARRY KR 28 010 -0813-013-00 77 115 MOSS AV OAKLAND 84611 YEN CHIANG C & MAY H TRS 1486 RANCHO VW DR, LAFAYETTE CA 94549-2230 29 010 -0818-017-00 94 158 SANTA CLARA AV OAKLAND 94610 FIRST BARBARA CX 499 EMBARCADERO, OAKLAND CA 94508-5131 30 010 -0818-019-01 33 154 SANTA CLARA AV OAKLAND 94610 WARREN RICHARD P ETAL 168 SANTA CLAR AVE, OAKLAND CA 94610-1323 31 010 -0818-020-00 83 512 OAKLAND AV OAKLAND 94611 WARREN RICHARD P ETAL 168 SANTA CLAR AVE, OAKLAND CA 94610-1323 32 010 -0818-021-00 32 516 OAKLAND AV OAKLAND 94611 WARREN RICHARD P ETAL 168 SANTA CLAR AVE, OAKLAND CA 94610-1323		010 -0813-003-00	85	96 MACARTHUR BL	OAKLAND	94611	JELINEK BARBARA B TR	
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FIRST and SECOND DIGIT CODES

oxxx - Series - Exempt, Not Assessed by County, Mobile Homes and Tracts

UU,U1,U2	Use code not assigned at this time
03	Exempt public agencies
04	Property leased by a public utility
05	Property owned by a public utility
06	Use code not assigned at this time
07	Mobile home in mobile home park
08	Vacant residential tract lot
09	Partially complete residential tract home

1xxx Series - Single Family Residential

10).	Vacant residential land z	oned for	four units	or less
----	----	---------------------------	----------	------------	---------

- 11 Single family residential homes used as such
- 12 Single family res home with a non-economic 2nd living unit
- 13 Single family residential home with a slight com'l use
- 14 Single family residential home with a slight indus, use
- 15 Planned development (townhouse type)
- 159 Planned development (townhouse type) Common area
- 16 Single family residential land with or subject to communal improvements
- 17 Single family residential home converted to boarding or rooming house use with shared kitchens and/or baths
- 18 Planned development (tract type) with commonly owned area
- 189 Planned development (tract type) Common area
- 19 Mobile home on single family residential land

2xxx Series · Multiple Residential, 2-4 Units and Mobile Homes

- 20 Use code not assigned at this time
- 21 Two, three or four single family homes
- 22 Double or duplex
- 23 Triplex; double or duplex together with a single family home
- 24 Four living units, eg. fourplex or triplex together with a single family residential home; two doubles or duplexes.
- 25 Residential property of two living units either or both of which are lesser quality than code 22
- 26 Residential property of three living units either or both of which are lesser quality than code 23
- 27 Residential property of four living units either or both of which are lesser quality than code 24
- 28 Residential property with two, three or four identifiable living units together with rooming or boarding use
- More than one mobile home, or one mobile home in addition to other residential living units, on res. land

3xxx Series - Commercial (See also 8X & 9X Series)

- 30 Vacant commercial land (may include misc. imps)
- 31 One-story store
- 32 Store on 1st floor with offices or apts/lofts on 2nd or 3rd
- 33 Miscellaneous commercial (improved)
- 34 Department store
- 35 Discount store
- 36 Restaurant
- 37 Shopping Center
- 38 Supermarket
- 39 Commercial or industrial condominium prior to sale of one unit. Regular use code used on all but common area after sale of one unit

4xxx Series - Industrial

- 40 Vacant industrial land (may include misc. imps)
- 41 Warehouse
- 42 Light industrial
- 43 Heavy industrial
- 44 Misc. industrial (improved), not qualifying for any other industrial code
- 45 Nurseries
- 46 Quarries, sand & gravel
- 47 Salt nonds
- 48 Terminals, trucking and distribution
- 49 Wrecking yards

5xxx Series - Rural

- 50 Vacant rural-residential homesites (may include misc. imps)
- 51 Rural-residential homesites (improved)
- 52 One or more mobile homes on rural home sites
- 53 Rural property with significant com'l use
- 54 Rural property with significant indust. use
- 55 Rural property used for agriculture (more than 10 acres)
- 56 Rural property in transition to a higher use
- 57 Vac. rural land not usable for even agricultural
- 585 Improved rural land under non-renewal of Williamson Act contract
- 595 Vacant rural land under non-renewal of Williamson Act contract

ISDODUJUSDI - SUDBE XXX

- O That vacant land which is a necessary part of an institutional property
- I Improved government-owned property
- 2 Use code not assigned at this time
- 3. Golf courses
- 4 Schools
- 5 Cemeteries
- 6 Churches
- 7 Other institutional properties
- il Lodgehalls and clubhouses
- i9 Use code not assigned at this time

'xxx Series - Multiple Residential, 5 or more units

- 70 Vacant apt land capable of supporting 5 or more units
- 71 Five or more single family residential homes
- 72 Residential property converted to 5 or more units
- 73 Condominiums
- 74 Cooperatives
- 75 Restricted income properties
- 76 Fraternities and sororities
- 77. Multiple residential (5 or more units)
- 18 Residential high-rise (7 or more stories)
- 79 Church homes

oxxx series - improved commercial

- 30 Car washes
- 81 Commercial garages (repair)
- 82 Automobile dealerships
- 83 Parking lots
- 84 Parking garages
- 85 Service stations
- 86 Funeral homes
- 87 Nursing or boarding homes
- 88 Hospital (convalescent or general)
- 89 Hotels

9xxx Series - Improved Commercial

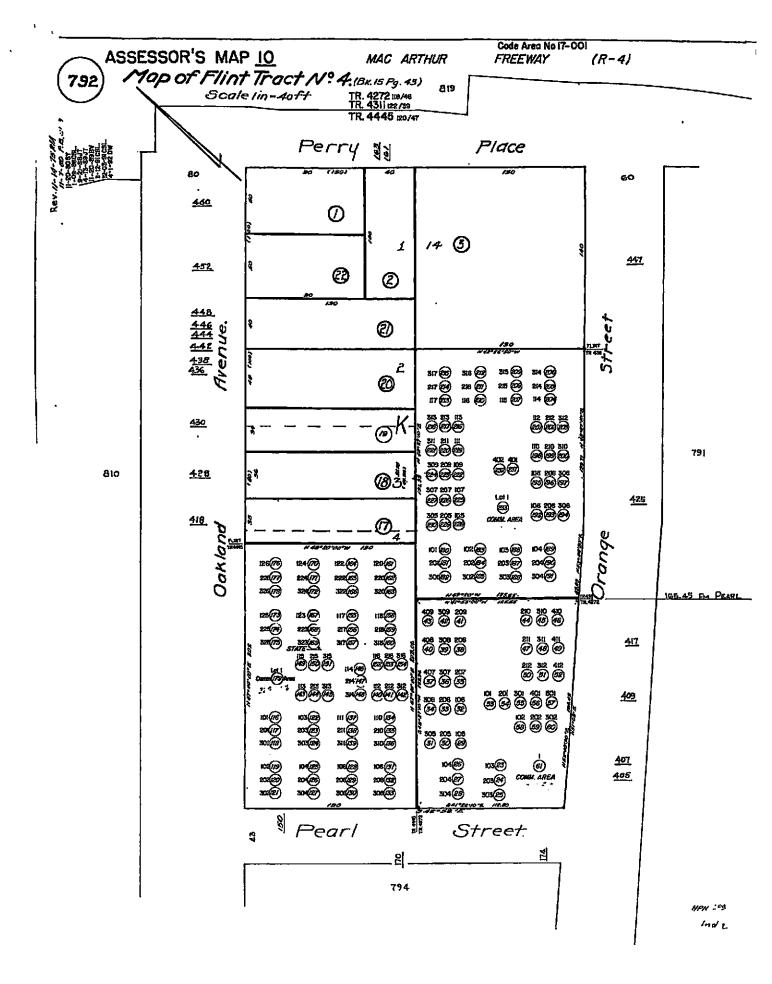
- 90 Motel
- 91 Mobile home parks
- 92 Banks
- 93 Medical-dental
- 94 1 to 5 story office buildings
- 95 Over 5 story office buildings
- 96 Bowling alleys
- 97 Theaters (walk-in)
- 98 Theaters (drive-in)
- 99 Other recreational activity, ie, rinks, stadiums, race tracks

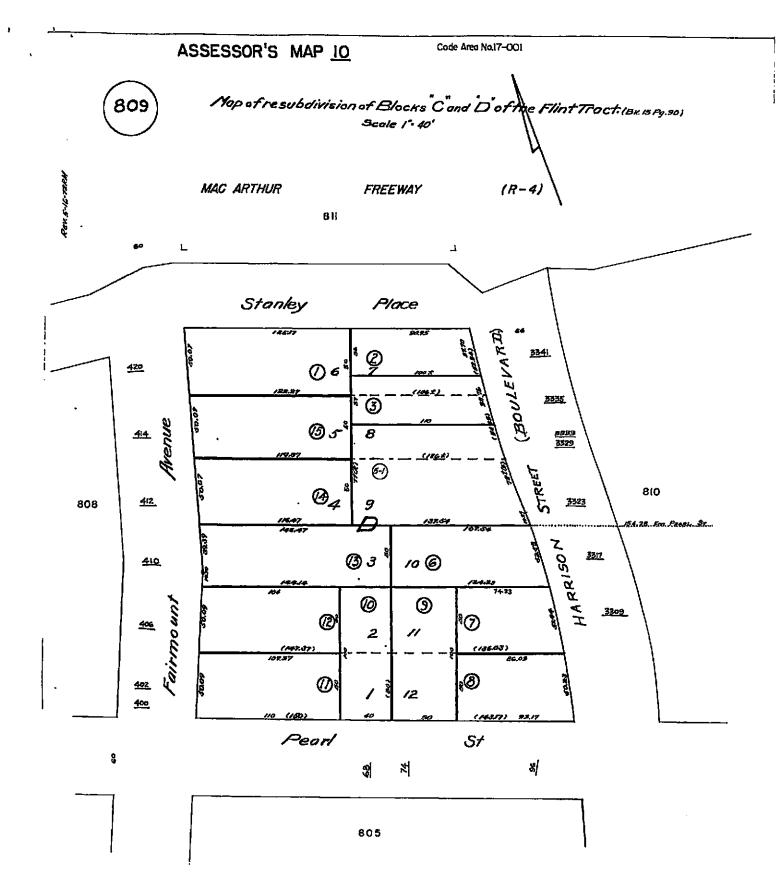
THIRD DIGIT CODES Third digit codes with the exception of xx2 and xx9 are assigned for administrative use, to denote types of property under special appraisal restrictions and should not be removed, added or changed by field personnel unless specifically instructed.

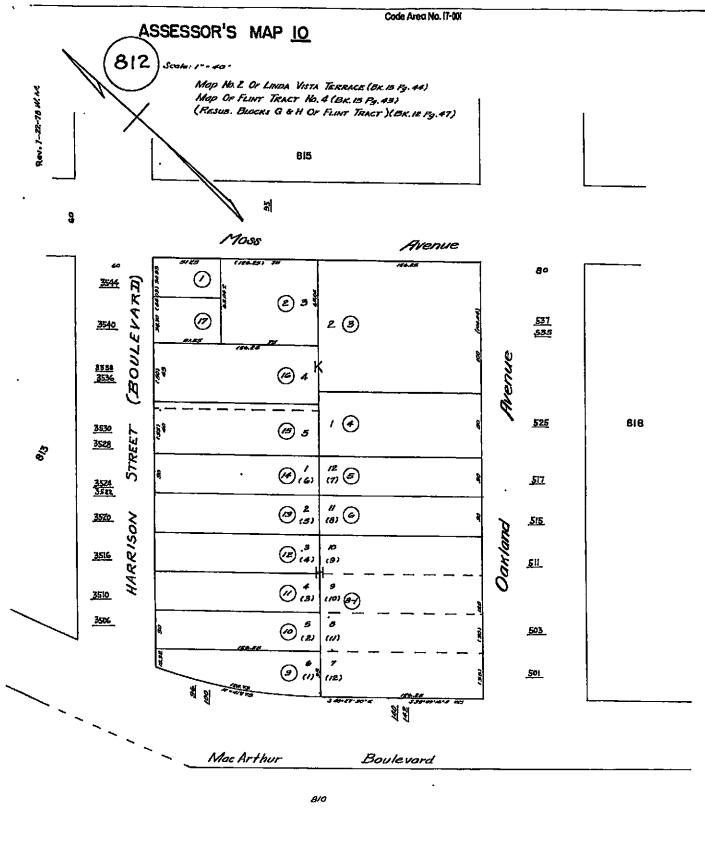
- Parcels which cannot be independently appraised, but must be separately assessed. When this code is used, all parcels which comprise a single property are coded with the same basic (first two digits) use code, This code is used for:
 - 1. Parcels created by tax rate area lines dividing property into two or more parcels
 - 2. Adjoining parcels which comprise a single property (single economic unit) which for some reason cannot be combined
- NOTE: This code is not to be used for condominiums, or planned developments (formerly code xx8)
- xx3 For use with cooperative housing projects which have not been separated into individual units, i.e., one parcel number covers multiple units and the surrendered roll value of this parcel Revised represents the total value of these units.

- xx5 Property enrolled under a land conservation contract
- xx6 Property owned by a unit of government outside the boundaries of that unit of government
- xx9 Common area of condominium or planned development

4/17/97



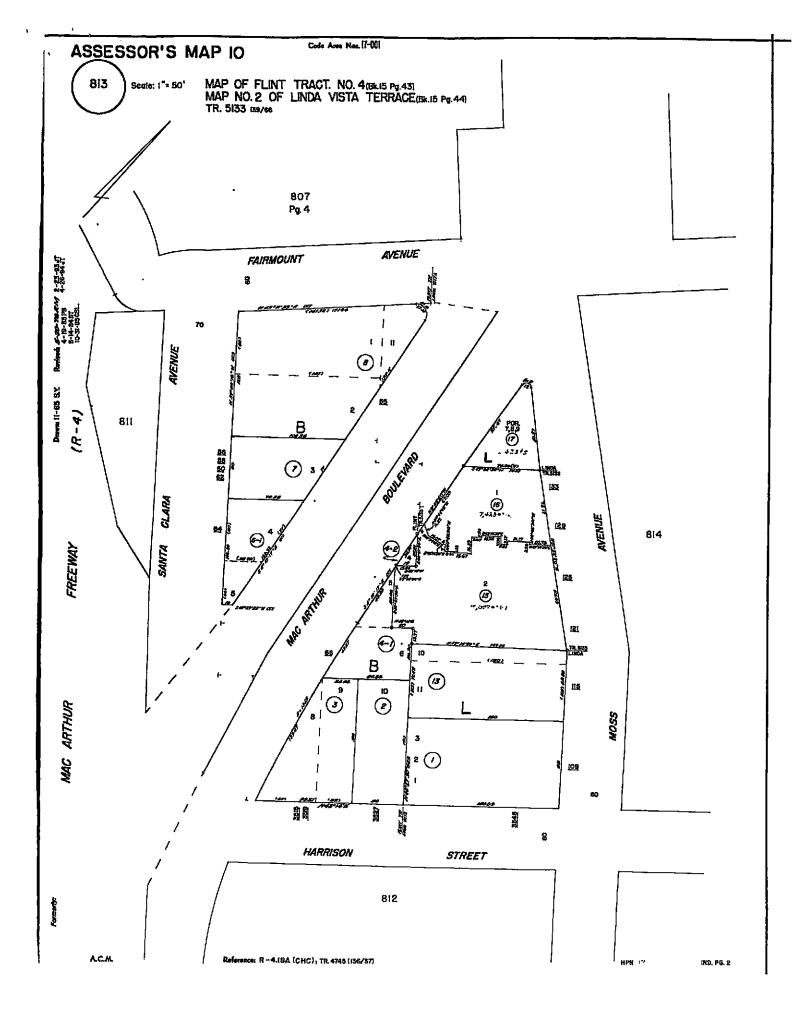


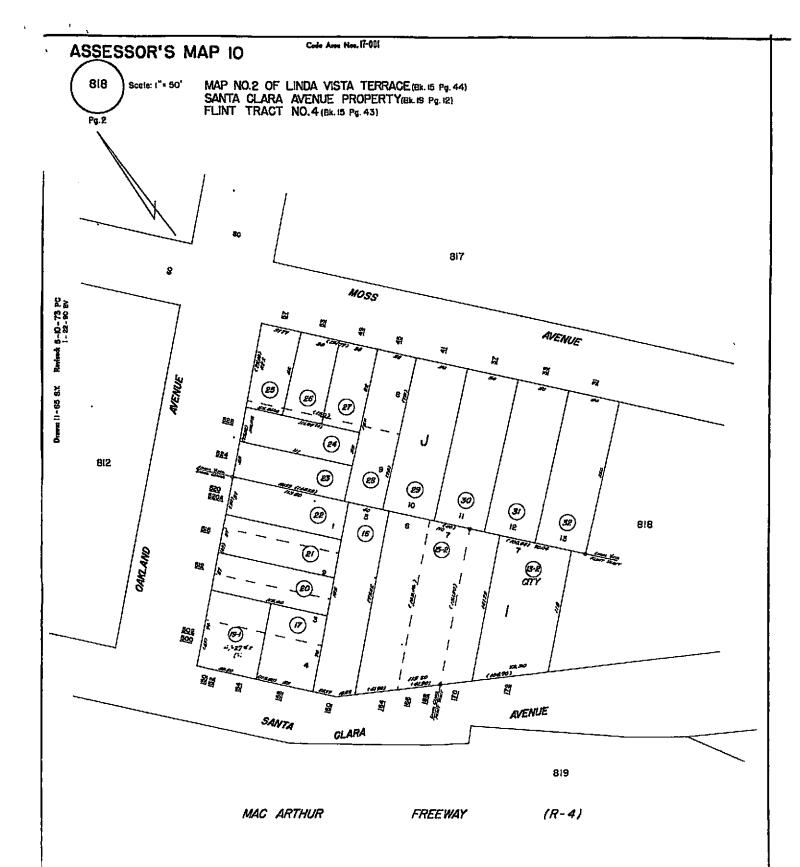


MAC ARTHUR

FREEWAY

(R-4)





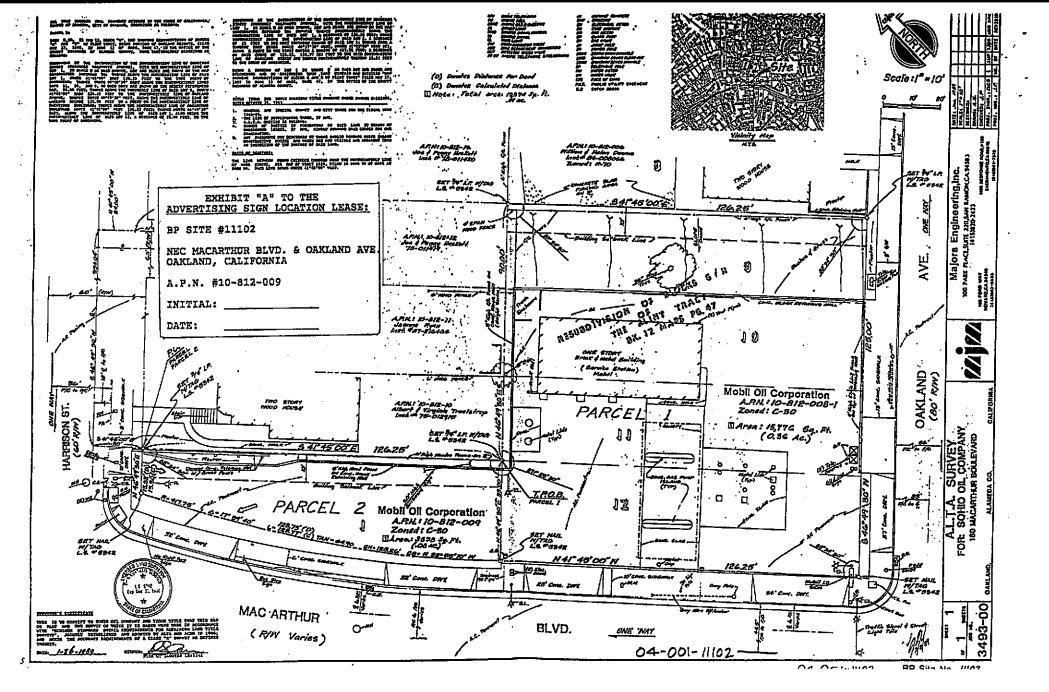
Formwitz.

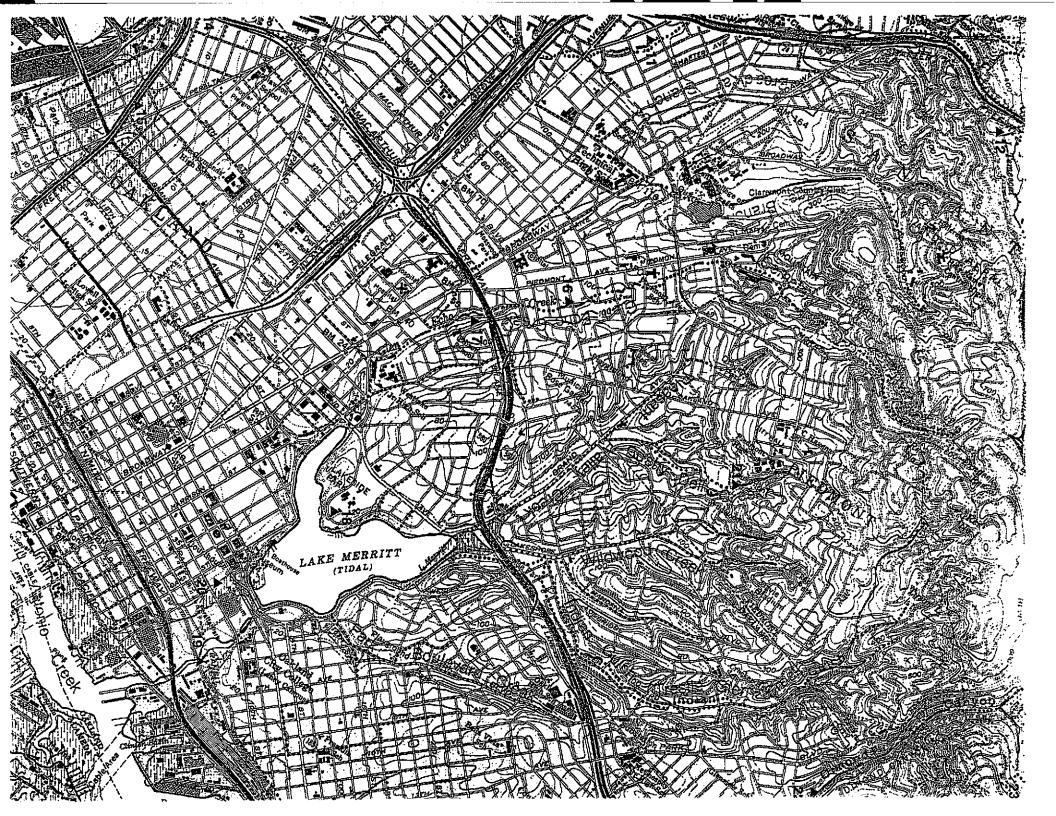
CAMBRIA

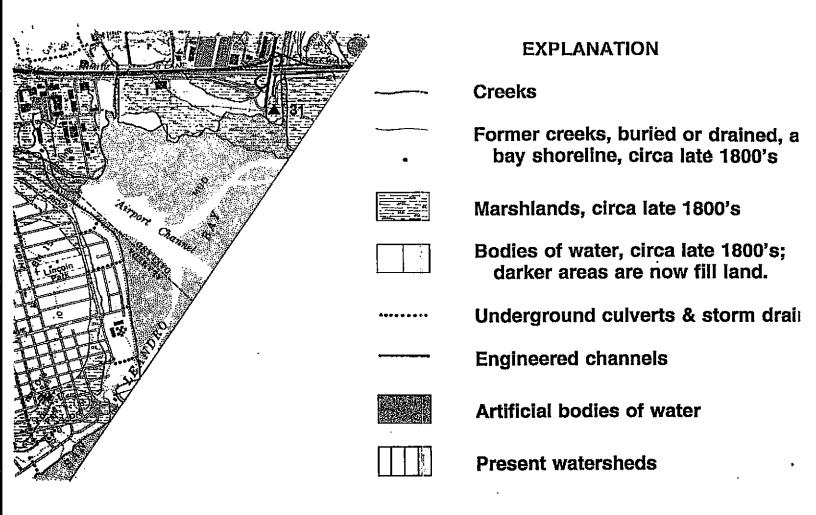


Appendix C

Utility Maps







WATERSHED MAP of the OAKLAND-BERKELEY AREA

by Janet M. Sowers

NOTES

Creeks shown are those having a minimum of 0.2 square kilometers of watershed. Storm drains shown are those 24 inches or greater in diameter. Where an underground culvert was laid in a creek bed, only the culvert, not a former creek, is shown.

This map was prepared using city and county maps of the storm water runoff system and flood control facilities, historic maps (1850-1900) showing original routes of creeks and extent of marshes, and field notes and maps prepared by the author and other individuals. Complete documentation and a list of sources can be



Appendix D

Recovery Test Data and Plots

BORING LOG

PROJECT:	30-063	BORING DATE: 10-26-89
LOCATION	. 100 MacArthur Boulevard, Oakland	GEOLOGIST: M. Hopwood
TYPE:	10" HSA	BORING NO. : MW-1

DRILLING COMPANY: Bay Area Exploration

DEPTH (FEET)	ı	BLOW CTS	MATERIAL ENCOUNTERED	USCS
			Asphalt Over Road Base Loose, dry, tan to orange, gravelly SAND.	GP
5 		5,14,16	Loose, damp, tan to orange, gravelly SAND; wood fragments. CGI = ND.	GP
_ 10 		6,10,13	Loose, damp, tan to light brown, clayey SAND; poorly sorted. OGI = ND.	sc
- - 15 - -		8,8,25	Loose, very moist, tan to light brown, clayey SAND; some iron staining.	sc
20 		9,9,12	Loose, saturated, tan to brown, gravelly SAND, with clay. CGI = ND.	GC
- - - -30			Medium stiff, moist, tan CLAY.	CL
 35 			Total Depth = 32 Feet	
— 40 —			B = Benzens	

TPH =Total Petroleum Hydrocarbons

TRPH = Total Recoverable Petroleum Hydrocarbons

▼ = Ground Water Piezometric Surface

ND = Not Detected

CGI = Combustible Gas Indicator

++ = Sample Analyzed for Hydrocerbon

Concentration

La Sampling Interval ppm = Parts per Million

LEL = Lower Explosive Limit

B = Benzene

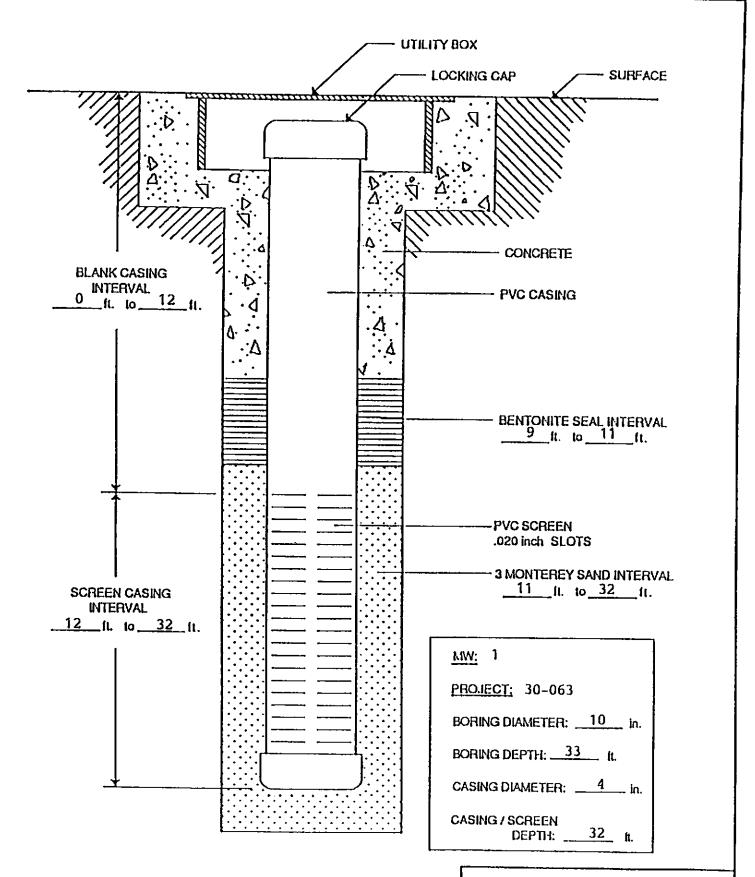
T = Toluena

E = Ethylbenzene

X = Xylone

Total Depth = 32 Feet

MONI DRING WELL CONSTRUCTI A DETAIL

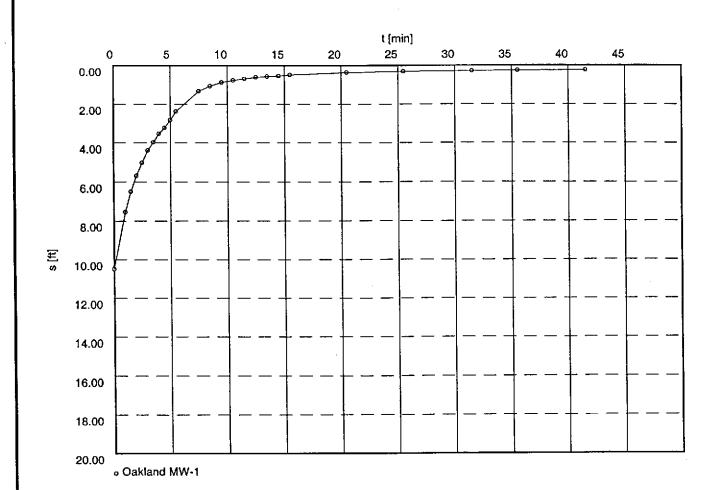




ALTON GEOSCIENCE

1170 BURNETT AVE., STE S CONCORD, CA 94520

Oakland, California 94608	Time-Drawdown plot	Project: BP - 11102 - Oakland		
ph.(510) 420-0700		Evaluated by: KBR		
Pumping Test No.	Test cond	conducted on: 05/06/99		
MW-1				



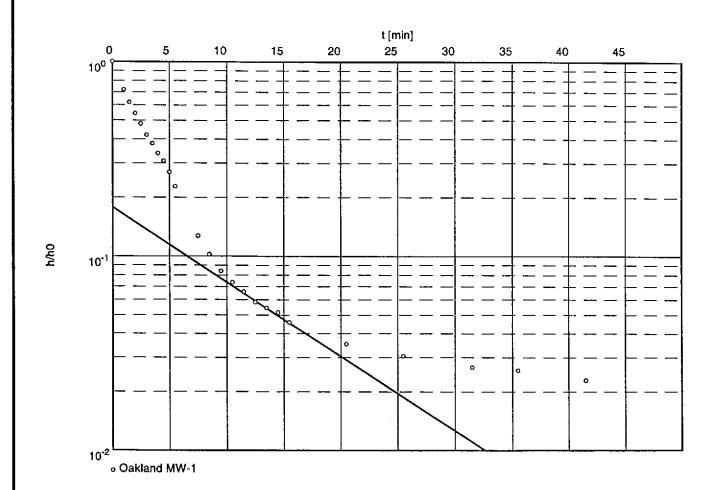
Cambria Environmental 1144 65th Street, Suite B
Oakland, California 94608
ph.(510) 420-0700

Pumping test analysis Time-Drawdown plot Date: 06.05.1999 Page 2
Project: BP - 11102 - Oakland
Evaluated by: KBR

Pumping Test No.	Test conducted on: 05/06/99
MW-1	Oakland MW-1
	- · · · · · · · · · · · · · · · · · · ·

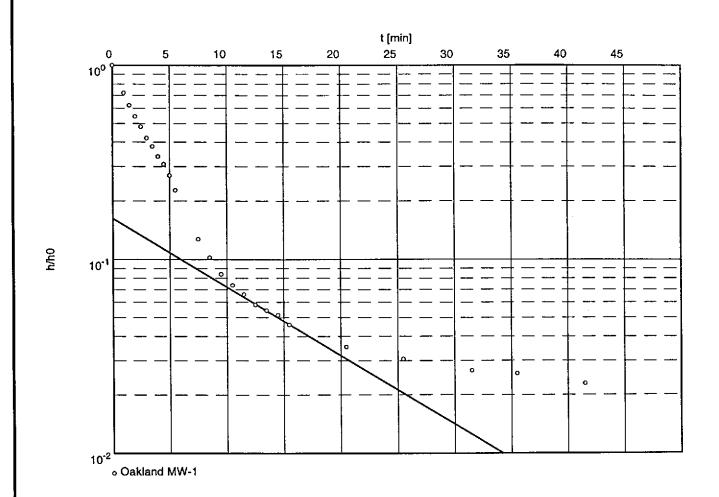
	Pumping test duration	Water level	Drawdown	
	[min]	[ft]	[ft]	
1	0.00	19.71	10.50	
2	1.00	16.75	7.54	
3	1.50	15.71	6.50	
4	2.00	14.90	5.69	
5	2.50	14.24	5.03	
6	3.00	13.61	4.40	
7	3.50	13.19	3.98	
8	4.00	12.75	3.54	
9	4.50	12.44	3.23	
10	5.00	12.04	2.83	
11	5.50	11.59	2.38	
12	7.50	10.54	1.33	
13	8.50	10.28	1.07	
14	9.50	10.09	0.88	
15	10.50	9.98	0.77	
16	11.50	9.90	0.69	
17	12.50	9.82	0.61	
18	13.50	9.78	0.57	
19	14.50	9.75	0.54	
20	15.50	9.69	0.48	
21	20.50	9.58	0.37	<u> </u>
22	25.50	9.53	0.32	
23	31.50	9.49	0.28	
24	35.50	9.48	0.27	
25	41.50	9.45	0.24	
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Cambria Environmental 1144 65th Street, Suite B Oakland, California 94608 ph.(510) 420-0700 Slug Test No. Slug/bail test analysis BOUWER-RICE's method Test conducted		<i>'</i>					
				•			
				n			**************************************
		Test conducted of	Evaluated by: KBR				



Hydraulic conductivity [ft/min]: 1.94 x 10⁻⁴

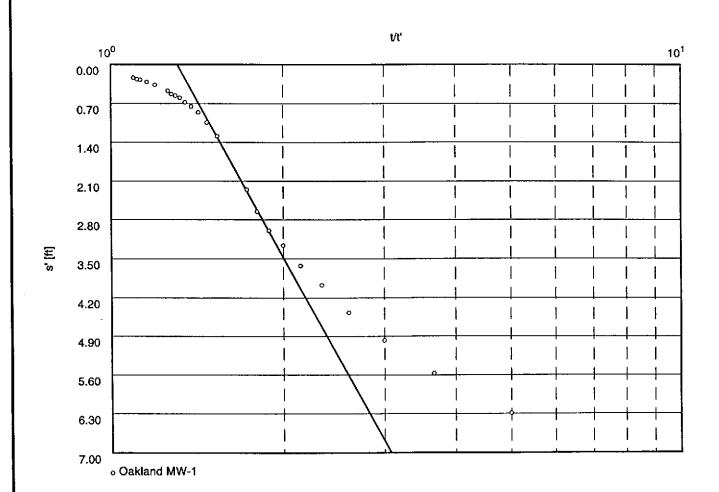
Cambria Environmental 1144 65th Street, Suite B Oakland, California 94608 ph.(510) 420-0700	sług/bail test analysis HVORSLEV's method	Date: 06.05.1999	
		Evaluated by: KBR	
Slug Test No.	Test condu	Test conducted on: 05/06/99	
MW-1			



Hydraulic conductivity [ft/min]: 2.28 x 10⁻⁴

Cambria Environmental 1144 65th Street, Suite B Oakland, California 94608	Recovery method after THEIS & JACOB		Project: BP - 11102 - Oakland Evaluated by: KBR	
ph.(510) 420-0700				
Pumping Test No.		Test conducted on: 05/06/99		
MW-1				
Discharge 5.00 U.S.gal/min				

Pumping test duration: 4.00 min



Transmissivity [ft²/min]: 6.50 x 10⁻³

Hydraulic conductivity [ft/min]: 2.85 x 10⁻⁴

Aquifer thickness [ft]: 22.79

Cambria Environmental 1144 65th Street, Suite B Oakland, California 94608 ph.(510) 420-0700 Pumping test analysis Recovery method after THEIS & JACOB Unconfined aquifer Date: 06.05.1999 Page 2
Project: BP - 11102 - Oakland

Evaluated by: KBR

Pumping Test No.

Test conducted on: 05/06/99

MW-1

Oakland MW-1

Discharge 5.00 U.S.gal/min

Static water level: 9.21 ft below datum		Pumping test duration: 4.00 min		
	Time from end of pumping [min]	Water level	Residual drawdown [ft]	Corrected drawdown [ft]
2	1.00	16.75	7.54	6.29
3	1.50	15.71	0.50	5.57
4	2.00	14.90	5.69	4.98
5 6	2.50	14.24	5.03	4.47
7	3.00	13.61	4.40	3.98
8	3.50	13.19	3.98	3.63
9	4.00	12.75	3.54	3.27
	4.50	12.44	3.23	3.00
10	5.00	12.04	2.83	2.65
11	5.50	11.59	2.38	2.26
12	7.50	10.54	1.33	1.29
13	8.50	10.28	1.07	1.04
14	9.50	10.09	0.88	0.86
15	10.50	9.98	0.77	0.76
16	11.50	9.90	0.69	0.68
17	12.50	9.82	0.61	0.60
18	13.50	9.78	0.57	0.56
19	14.50	9.75	0.54	0.50
20	15.50	9.69	0.48	0.47
21	20.50	9.58	0.37	0.37
22	25.50	9.53	0.32	0.32
23	31.50	9.49	0.28	0.28
24	35.50	9.48	0.27	0.27
25	41.50	9.45	0.24	0.24

BORING LOG

PROJECT:_	30-063	BORING DATE: 10-25-89
LOCATION:	100 MacArthur Boulevard, Oakland	
TVDE		

BORING NO. : MY-2

DRILLING COMPANY: Bay Area Exploration

TYPE:

DEPTH (FEET)	1	BLOW CTS	MATERIAL ENCOUNTERED	uscs
_ _ _			Asphalt Over Road Base Very loose, damp, dark brown, silty CLAY.	
		3,4,7	Loose, damp, greenish gray, silty CLAY with some coarse sand; very slight odor. CGI = 75 ppm.	CL
— 10 — — —		2,4,6	Medium stiff, damp, tan, sandy SILTY/CLAY. CGI = ND.	CL
- 15 - 20 		5,7,12	Moderately stiff, damp, tan, clayey SIIT.	MIL
— 25 - - - - - - 30			Stiff, damp, gray, silty CLAY; iron stains; calcite stringers.	CIT
			Total Depth - 32 Feet	

TPH =Total Petroleum Hydrocarbons

TRPH = Total Recoverable Petroleum Hydrocarbons

▼ = Ground Water Piezometric Surface

ND = Not Detected

CGI = Combustible Gas Indicator

++ = Sample Analyzed for Hydrocarbon

Concentration

I = Sampling Interval

ppm = Parts per Million LEL = Lower Explosive Limit B = Benzene

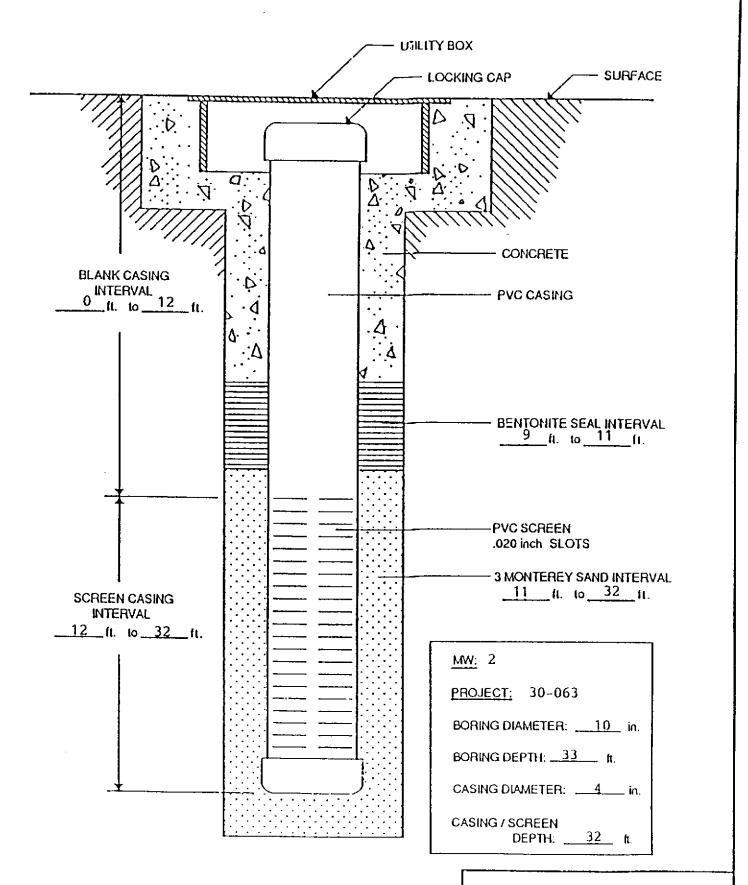
T = Toluena

E = Ethylbenzene

X = Xylona

Total Depth # 32 Feet

MON' DRING WELL CONSTRUCTIV I DETAIL

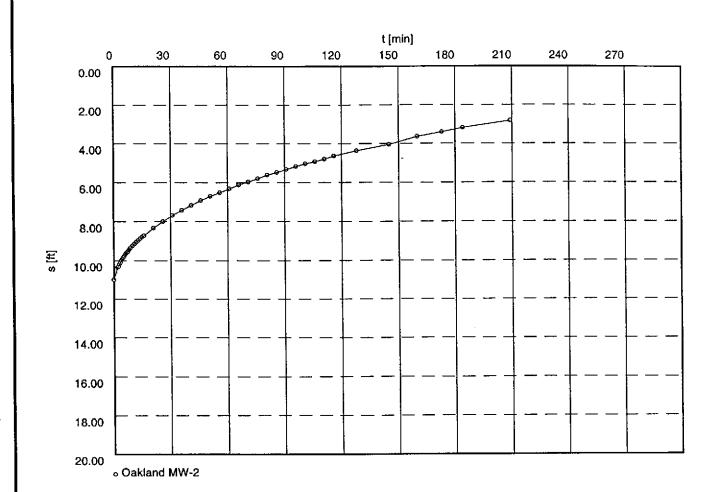




ALTON GEOSCIENCE 16510 ASTON ST.

IRVINE, CA 92714

Cambria Environmental 1144 65th Street, Suite B Oakland, California 94608	Pumping test analysis Time-Drawdown plot	Date: 05/06/99 Page 1 Project: BP 11102 - Oakland		
ph.(510) 420-0700		Evaluated by:		
Pumping Test No.	Test condu	Test conducted on: 05/06/99		
Oakland MW-2				



Cambria Environmental 1144 65th Street, Suite B
Oakland, California 94608
ph.(510) 420-0700

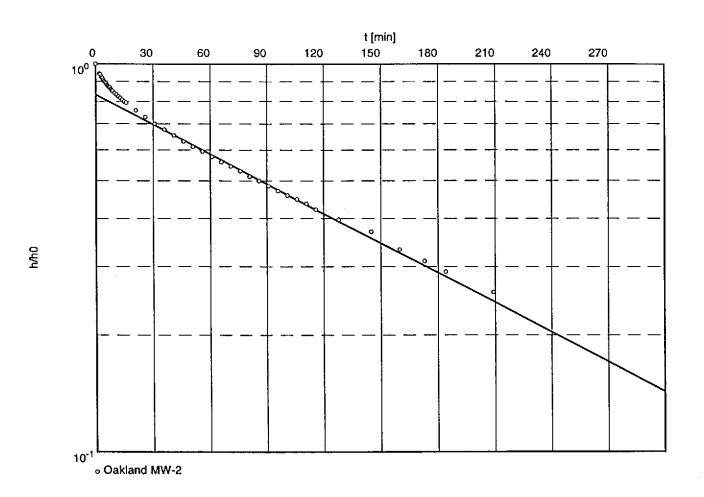
Pumping test analysis Time-Drawdown plot

Date: 05/06/99	Page 2
Project: BP 11102 -	Oakland
Evaluated by:	

Pumping Test No.	Test conducted on: 05/06/99
Oakland MW-2	Oakland MW-2

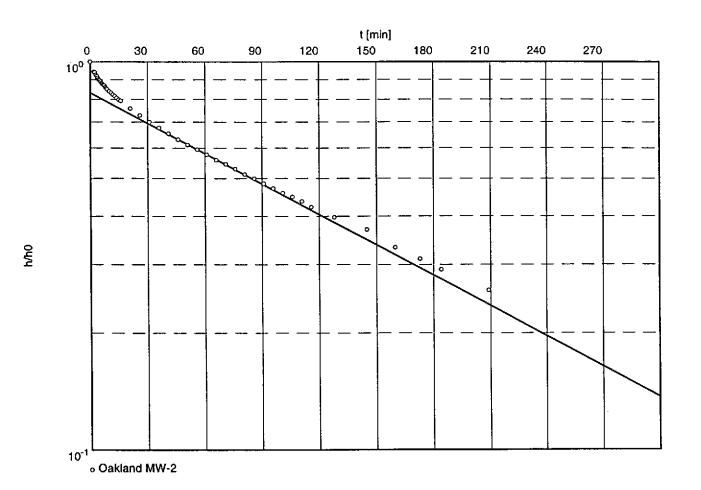
	Pumping test duration	Water level	Drawdown	
	[min]	[ft]	[ft]	
1	0.00	21.92	11.00	•
2	2.00	21.28	10.36	
3	2.50	21.24	10.32	
4	3.00	21.10	10.18	
5	3.50	21.02	10.10	
6	4.00	20.91	9.99	
7	4.50	20.83	9.91	
В	5.00	20.77	9.85	
9	5.50	20.70	9.78	
0	6.00	20.61	9.69	
1	6.50	20.55	9.63	
2	7.00	20.50	9.58	
3	7.50	20.46	9.54	
4	8.00	20.37	9.45	
5	8.50	20.31	9.39	
6	9.00	20.25	9.33	
7	10.00	20.15	9.23	
8	11.00	20.06	9.14	
9	12.00	19.96	9.04	
0	13.00	19.88	8.96	
1	14.00	19.79	8.87	
2	15.00	19.70	8.78	
3	16.00	19.64	8.72	
4	21.00	19.25	8.33	
5	26.00	18.92	8.00	
6	31.00	18.61	7.69	
7	36.00	18.35	7.43	
8	41.00	18.10	7.18	
9	46.00	17.85	6.93	
10	51.00	17.63	6.71	
31	56.00	17.45	6.53	
2	61.00	17.25	6.33	
33	66.00	17.05	6.13	
34	71.00	16.90	5.98 5.81	
35 36	76.00 81.00	16.73 16.55	5.63	
10 17	81.00	16.55	5.49	
18	91.00	16.25	5.33	
39	96.00	16.10	5.33	
10	101.00	15.96	5.04	
11	106.00	15.85	4.93	
12	111.00	15.72	4.80	
13	116.00	15.72	4.64	
14	128.00	15.29	4.37	
15	145.00	14.98	4.06	
16	160.00	14.57	3.65	
17	173.00	14.33	3.41	
18	184.00	14.12	3.20	

Cambria Environmental 1144 65th Street, Suite B	slug/bail test analysi: BOUWER-RICE's m	slug/bail test analysis BOUWER-RICE's method		Page 1 2 - Oakland
Oakland, California 94608 ph.(510) 420-0700			Evaluated by:	
Slug Test No.		Test conducted on: 05/06/99		
Oakland MW-2		· - · · · · · · · · · · · · · · · · · ·		
	· ·			



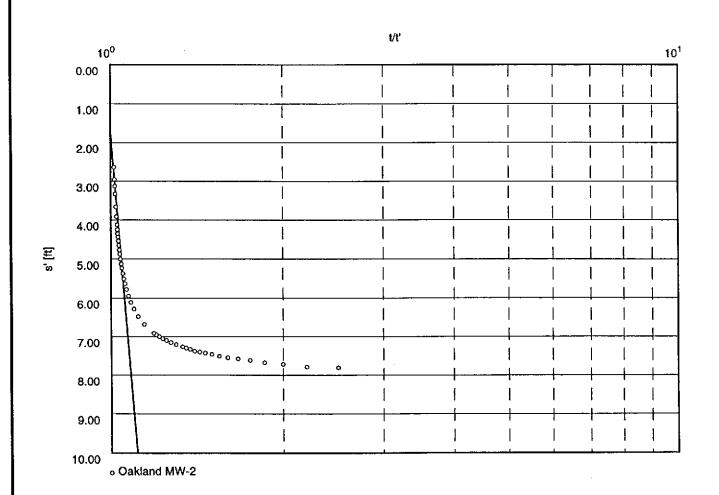
Hydraulic conductivity [ft/min]: 1.27 x 10⁻⁵

Cambria Environmental 1144 65th Street, Suite B Oakland, California 94608	slug/bail test analysis HVORSLEV's method	,		Page 1 2 - Oakland
ph.(510) 420-0700				
Slug Test No.		Test conducted on: 05/06/99		
Oakland MW-2				
			* 38	



Hydraulic conductivity [ft/min]: 1.68×10^{-5}

Cambria Environmental 1144 65th Street, Suite B Oakland, California 94608	Pumping test analysis Recovery method after THEIS & JACOB Unconfined aquifer		Date: 05/06/99 Project: BP 11102	Page 1 2 - Oakland
ph.(510) 420-0700			Evaluated by:	
Pumping Test No.		Test conducted on: 05/06/99		
Oakland MW-2			***	
Discharge 5.00 U.S.gal/min				
		Pumping test du	ration: 3.00 min	



Transmissivity [ft²/min]: 6.64 x 10⁻⁴

Hydraulic conductivity [ft/min]: 3.15 x 10⁻⁵

Aquifer thickness [ft]: 21.08

Cambria Environmental 1144 65th Street, Suite B Oakland, California 94608 ph.(510) 420-0700 Pumping test analysis Recovery method after THEIS & JACOB Unconfined aquifer Date: 05/06/99 Page 2

Project: BP 11102 - Oakland

Evaluated by:

Pumping Test No.

Test conducted on: 05/06/99

Oakland MW-2

Oakland MW-2

Discharge 5.00 U.S.gal/min

JIGHT WA	water level: 10.92 ft below datum Pumping test duration: 3.00 min			
	Time from	Water level	Residual	Corrected
	end of pumping		drawdown	drawdown
	[min]	[ft]	[ft]	[ft]
	2.00	01.09	10.36	7.8
2	2.00	21.28	10.32	7.7
3	2.50	21.24	10.18	7.7
5	3.00	21.10	10.10	7.6
6	3.50 4.00	21.02	9.99	7.6
7	4.50	20.83	9.91	7.0
8	5.00	20.77	9.85	7.5
9	5.50	20.70	9.78	7.9
10	6.00	20.61	9.69	7.4
11	6.50	20.55	9.63	7.4
12	7.00	20.50	9.58	7.4
13	7.50	20.46	9.54	7.:
14	8.00	20.37	9.45	7.
15	8.50	20.31	9.39	7.3
16	9.00	20.25	9.33	7.3
17	10.00	20.15	9.23	7.:
18	11.00	20.06	9.14	7.
19	12.00	19.96	9.04	7.
20	13.00	19.88	8.96	7.
21	14.00	19.79	8.87	7.
22	15.00	19.70	8.78	6.
23	16.00	19.64	8.72	6.
24	21.00	19.25	8.33	6.
25	26.00	18.92	8.00	6.
26	31.00	18.61	7.69	6.
27	36.00	18.35	7.43	6.
28	41.00	18.10	7.18	5.
29	46.00	17.85	6.93	5.
30	51.00	17.63	6.71	5.
31	56.00	17.45	6.53	5.
32	61.00	17.25	6.33	5.
33	66.00	17.05	6.13	5.
34	71.00	16.90	5.98	5.
35	76.00	16.73	5.81	5.
36	81.00	16.55	5.63	4.
37	86.00	16.41	5.49	4.
38	91.00	16.25	5.33	4.
39	96.00	16.10	5.18	4.
40	101.00	15.96	5.04	4
41	106.00	15.85	4.93	4
42	111.00	15.72	4.80	4
43	116.00	15.56	4.64	4
44	128.00	15.29	4.37	3
45	145.00	14.98	4.06	3
46	160.00	14.57	3.65	3
47	173.00	14.33	3.41	3
48	184.00	14.12	3.20	2
49	209.00	13.75	2.83	2

BORING LOG

PROJECT:_	30-063	BORING DATE:	10-26-89
LOCATION	100 MacArthur Boulevard, Oakland	GEOLOGIST:	M. Hopwood
	10" HSA		MW-3
TYPE:		BORING NO.	

DRILLING COMPANY: Bay Area Explored

DEPTH (FEET)	i	BLOW CTS	MATERIAL ENCOUNTERED	USCS
- - - - - 5			Asphalt Over Road Base Loose, dry, tan to orange, gravelly SAND.	G₽
- 5 - - - - - 10		7,11,14	Moderately stiff, damp, tan to gray/green, silty CLAY, with gravel; some iron staining.	СL
	Ц_	3,5,6	·	
- - - 15 - -		6,8,13	Moderately soft, damp, brown, silty CLAY.	CT
			Moderately loose, damp, tan to brown, sandy CLAY.	CL
- 25 -			Soft, moist, tan CLAY.	CL
- - - 30 - -			Becomes silty.	
 35 40			Total Depth - 32 Feet	

TPH =Total Petroleum Hydrocarbons

TRPH = Total Recoverable Petroleum Hydrocarbons

▼ -- Ground Water Piezometric Surface

ND - Not Detected

CGI = Combustible Gas Indicator

++ = Sample Analyzed for Hydrocarbon

Concentration

La Sampling Interval

ppm = Parts per Million

LEL = Lower Explosive Limit

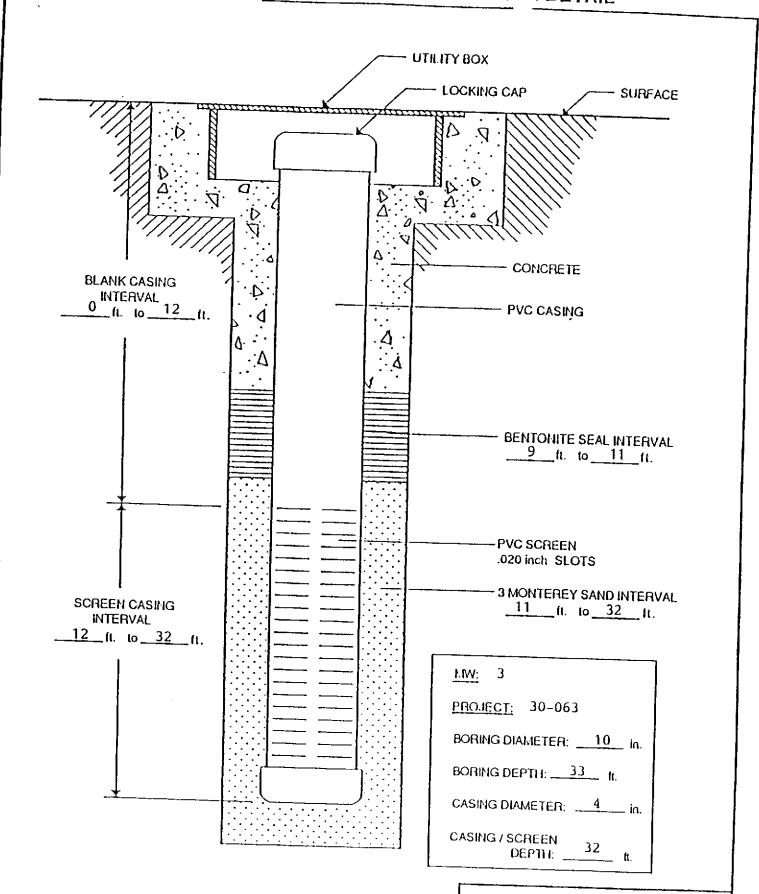
B = Banzene

T = Toluena

E = Ethylbenzene

X = Xylene

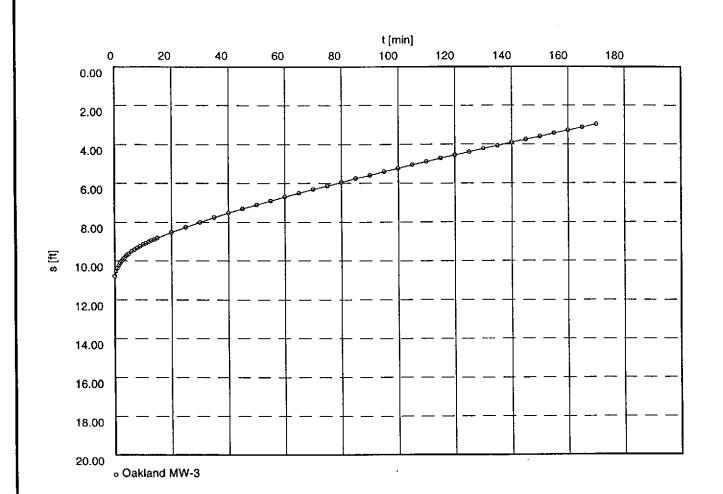
Total Depth = 32 Feet





ALTON GEOSCIENCE 1170 BURNETT AVE., STE S CONCORD, CA 94520

Cambria Environmental 1144 65th Street, Suite B Oakland, California 94608 ph.(510) 420-0700	Pumping test analysis Time-Drawdown plot	Date: 05/06/99 Project: BP 11102 Evaluated by: KBP	
Pumping Test No.	Test conducted	Test conducted on: 05/06/99	
MW-3			



Cambria Environmental 1144 65th Street, Suite B
Oakland, California 94608
ph.(510) 420-0700

Pumping test analysis Time-Drawdown plot

Date: 05/06/99	Page 2
Project: BP 11102 -	Oakland

ph.(510) 420-0700	Evaluated by: KBR
Pumping Test No.	Test conducted on: 05/06/99
MW-3	Oakland MW-3

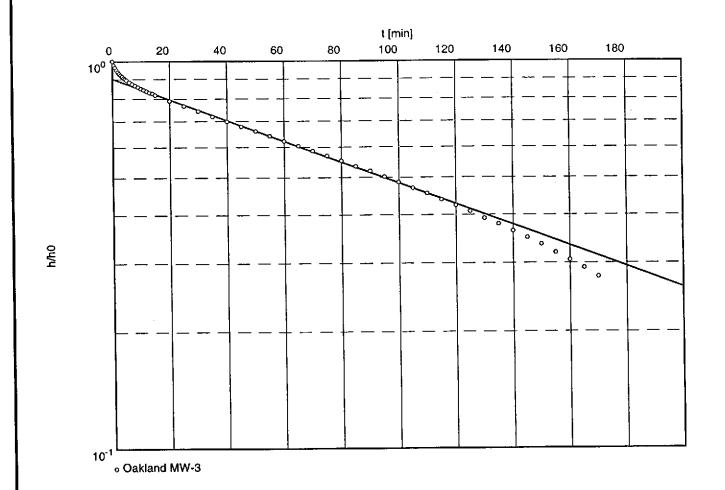
Static water level: 14.89 ft below datum

Static	water level: 14.89 ft below datum			
	Pumping test duration	Water level	Drawdown	
	[min]	[ft]	[ft]	
1	0.00	25.68	10.79	
2	0.50	25.43	10.54	······································
3	1.00	25.28	10.39	
4	1.50	25.12	10.23	
5	2.00	25.00	10.11	
6	2.50	24.90	10.01	
7	3.00	24.81	9.92	
8	3.50	24.74	9.85	
9	4.00	24.65	9.76	
10	4.50	24.59	9.70	
11	5.00	24.53	9.64	
12	6.00	24.41	9.52	
13	7.00	24.31	9.42	
14	8.00	24.22	9.33	
15	9.00	24.14	9.25	
16	10.00	24.05	9.16	
17	11.00	23.99	9.10	
18	12.00	23.91	9.02	
19	13.00	23.84	8.95	
20	14.00	23.79	8.90	<u> </u>
21	15.00	23.71	8.82	
22	20.00	23.41	8.52	
23	25.00	23.15	8.26	
24	30.00	22.90	8.01	
25	35.00	22.65	7.76	
26	40.00	22.42	7.53	
27	45.00	22.20	7.31	
28	50.00	22.00	7.11	
29	55.00	21.80	6.91	
30	60.00	21.59	6.70	
31	65.00	21.40	6.51	
32	70.00	21.21	6.32	
33	75.00	21.03	6.14	
34	80.00	20.85	5.96	
35	85.00	20.65	5.76	
36	90.00	20.49	5.60	
37	95.00	20.30	5.41	
38	100.00	20.13	5.24	
39	105.00	19.95	5.06	
40	110.00	19.79	4.90	
41	115.00	19.61	4.72	
42	120.00	19.45	4.56	
43	125.00	19.29	4.40	
44	130.00	19.11	4.22	
45	135.00	18.97	4.08	
46	140.00	18.80	3.91	
47	145.00	18.65	3.76	
48	150.00	18.50	3.61	
49	155.00	18.33	3.44	
, AN (160.00	1010		

Cambria	Environmental Street, Suite B	Pumping test analysis		Date: 05/06/99	Page 3	
	Street, Suite B idomia 94608	Time-Drawdown plot		Project: BP 11102 - Oakland		
ph.(510) 420-0700				Evaluated by: KBR		
Pumping 1	Test No.	Test conducted on: 05/06/99				
MW-3			Oakland MW-3			
Static wat	er level: 14.89 ft below datum					
<u> </u>	Pumping test duration	Water level	Drawd	own	· · · · · ·	
51	[min] 165.00	[ft] 18.03	[ft]	3.14	,	
52	170.00	17.87		2.98		
						
		· · ·				
		, <u>.</u>				

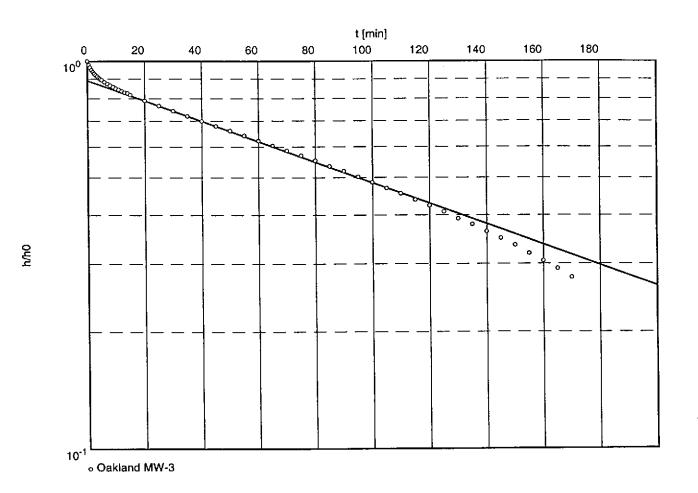
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, ,	slug/bail test analysis BOUWER-RICE's method		Page 1
	Test conducte	d on: 05/06/99	
	, ,	BOUWER-RICE's method	· · · · · · · · · · · · · · · · · · ·



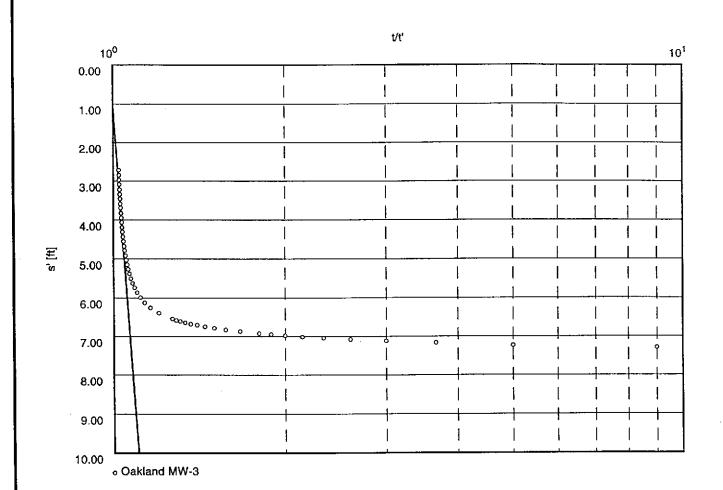
Hydraulic conductivity [ft/min]: 3.40 x 10⁻⁵

Cambria Environmental 1144 65th Street, Suite B Oakland, California 94608 ph.(510) 420-0700	slug/bail test analysis HVORSLEV's method	Date: 05/06/99 Page 1 Project: BP 11102 - Oakland Evaluated by: KBR
Slug Test No.	Test con	ducted on: 05/06/99
MW-3		



Hydraulic conductivity [ft/min]: 1.71 x 10⁻⁵

Cambria Environmental Pumping test 1144 65th Street, Suite B Recovery me Oakland, California 94508 THEIS & JAC			Date: 05/06/99	
ph.(510) 420-0700	Unconfined aquifer		Evaluated by: KB	R
Pumping Test No.		Test conducted on: 05/06/99		
MW-3				
Discharge 5.00 U.S.gal/min				
		Pumping test dura	tion: 4.00 min	<u> </u>



Transmissivity [ft²/min]: 5.79 x 10⁻⁴

Hydraulic conductivity [ft/min]: 3.38 x 10⁻⁵

Aquifer thickness [ft]: 17.11

Cambria Environmental 1144 65th Street, Suite B Oakland, California 94608 ph.(510) 420-0700 Pumping test analysis Recovery method after THEIS & JACOB Unconfined aquifer
 Date: 05/06/99
 Page 2

 Project: BP 11102 - Oakland

Evaluated by: KBR

Pumping Test No.

Test conducted on: 05/06/99

MW-3

Oakland MW-3

Discharge 5.00 U.S.gal/min

Static water level: 14.89 ft below datum Pumping test duration: 4.00 min				
	Time from	Water level	Residual	Corrected
	end of pumping		drawdown	drawdown
	[min]	[ft]	[ft]	[ft]
2	0.50	25.43	10.54	7.2
3	1.00	25.28	10.39	7.2
4	1.50	25.12	10.23	7.1
5	2.00	25.00	10.11	7.1
6	2.50	24.90	10.01	7.0
7	3.00	24.81	9.92	7.0
8	3.50	24.74	9.85	7.0
9	4.00	24.65	9.76	6.9
10	4.50	24.59	9.70	6.9
11	5.00	24.53	9.64	6.9
12	6.00	24.41	9.52	6.8
13	7.00	24.31	9.42	
14				6.8
15	8.00 9.00	24.22 24.14	9.33 9.25	6.7
16		L P		6.7
17	10.00	24.05	9.16	6.7
	11.00	23.99	9.10	6.6
18	12.00	23.91	9.02	6.6
19	13.00	23.84	8.95	6.6
20	14.00	23.79	8.90	6.5
21	15.00	23.71	8.82	6.5
22	20.00	23.41	8.52	6.4
23	25.00	23.15	8.26	6.2
24	30.00	22.90	8.01	6.1
25	35.00	22.65	7.76	6.0
26	40.00	22.42	7.53	5.8
27	45.00	22.20	7.31	5.7
28	50.00	22.00	7.11	5.6
29	55.00	21.80	6.91	5.0
30	60.00	21.59	6.70	5.3
31	65.00	21.40	6.51	5.1
32	70.00	21.21	6.32	5.
33	75.00	21.03	6.14	5.0
34	80.00	20.85	5.96	4.5
35	85.00	20.65	5.76	4.
36	90.00	20.49	5.60	4.6
37	95.00	20.30	5.41	4.9
38	100.00	20.13	5.24	4,
39	105.00	19.95	5.06	4.:
40	110.00	19.79	4.90	4.:
41	115.00	19.61	4.72	4.
42	120.00	19.45	4.56	3.
43	125.00	19.29	4.40	3.
44	130.00	19.11	4.22	3.
45	135.00	18.97	4.08	3.
46	140.00	18.80	3.91	3.
47	145.00	18.65	3.76	3.
48	150.00	18.50	3.61	3.
49	155.00	18.33	3.44	3.
50 1	160.00	18 18	3.20	2

Date: 05/06/99 Page 3 Cambria Environmental Pumping test analysis 1144 65th Street, Suite B Recovery method after Project: BP 11102 - Oakland Oakland, California 94608 THEIS & JACOB Unconfined aquifer ph.(510) 420-0700 Evaluated by: KBR Pumping Test No. Test conducted on: 05/06/99 MW-3 Oakland MW-3 Discharge 5.00 U.S.gal/min Static water level: 14.89 ft below datum Pumping test duration: 4.00 min Time from Water level Residual Corrected end of pumping drawdown drawdown [min] [ft] [ft] [ft] 51 165.00 18.03 3.14 2.85 52 170.00 17.87 2.98 2.72