

Pacific Gas and Electric Company

Technical and Ecological Services
3400 Crow Canyon Road
San Ramon, CA 94583
415/820-2000



May 9, 1989

Mr. Ariu Levy
Alameda County Health Department
Hazardous Materials Section
80 Swan Way, Room 200
Oakland, CA 94621

Dear Mr. Levy:

SUBJECT: Underground Tank Site Investigation
Groundwater Monitoring Analytical Results
4930 Coliseum Way, Oakland

On 23 March 1988, groundwater samples were collected by the Pacific Gas and Electric Company's Water Resources Unit from four monitor wells located at PG&E's Oakland General Construction Gas Yard. The gas yard is located at 4930 Coliseum Way in Oakland.

This sampling effort was performed to continue evaluating the impact of an underground storage tank cluster formerly located near the northeast corner of the site and an underground diesel storage tank formerly located near the northwest corner of the site. The attached site map shows the monitor well locations relative to the former tank locations.

The groundwater samples were analyzed by Brown and Caldwell Laboratories (Emeryville, California) for oil and grease (EPA method 413.1), total fuel hydrocarbons (modified EPA method 8015), and purgeable priority pollutants (EPA method 624) within allowable holding times. Copies of the laboratory data sheets are attached.

Results were below detectable limits for all analyses performed, except for one extractable priority pollutant. In this analysis, 1,1-Dichloroethane was detected at concentrations of 3 micrograms per liter (ppb) in well OW-1 and 14 ppb in well OW-3. There is no maximum contamination limit (MCL) or action level set for this constituent by state or federal regulations at this time. An MCL of 20 ppb was recommended by the California Department of Health Services in 1986.

We propose to sample the wells again in July 1989 for laboratory analysis. Results of the analysis will be provided to your department in a timely manner.

ALAMEDA COUNTY
DEPT. OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS
5/11/89

Ariu Levy

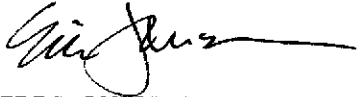
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May 9, 1989

A feasibility study/corrective action plan is currently being prepared to address remedial alternatives for the site, and will be provided to you upon completion.

Please call me if you have questions or comments about the laboratory results or the site.

Sincerely,

A handwritten signature in cursive script, appearing to read "Eric Johnson", with a long horizontal flourish extending to the right.

ERIC JOHNSON
Environmental Specialist

Attachment



LOG NO: E89-03-589

Received: 23 MAR 89

Reported: 07 APR 89

Mr. Eric Kenzler
PG&E Technical & Eco. Services
3400 Crow Canyon Road
San Ramon, California 94583

Purchase Order: LO 866645

REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES				DATE SAMPLED
03-589-1	OW-1				23 MAR 89
03-589-2	OW-2				23 MAR 89
03-589-3	OW-3				23 MAR 89
03-589-4	OW-4				23 MAR 89
PARAMETER	03-589-1	03-589-2	03-589-3	03-589-4	
Oil & Grease, gravimetric, mg/L	<5	<5	<5	<5	
Fuel Hydrocarbons					
Date Analyzed	03.29.89	03.30.89	03.30.89	03.30.89	
Total Fuel Hydrocarbons, mg/L	<1.0	<1.0	<1.0	<1.0	
Other Fuel Hydrocarbons	---	---	---	---	

OAKLAND SC

GAS YARD



LOG NO: B89-03-589

Received: 23 MAR 89

Reported: 07 APR 89

Mr. Eric Kenzler
 PG&E Technical & Eco. Services
 3400 Crow Canyon Road
 San Ramon, California 94583

Purchase Order: L0 866645

REPORT OF ANALYTICAL RESULTS

Page 2

LOG NO	SAMPLE DESCRIPTION, AQUEOUS SAMPLES	DATE SAMPLED			
03-589-1	OW-1	23 MAR 89			
03-589-2	OW-2	23 MAR 89			
03-589-3	OW-3	23 MAR 89			
03-589-4	OW-4	23 MAR 89			
PARAMETER	03-589-1	03-589-2	03-589-3	03-589-4	
Purgeable Priority Pollutants	03.31.89	03.31.89	03.31.89	03.31.89	
Date Extracted	<1	<1	<1	<1	
1,1,2-Trichloroethane, ug/L	3	<1	14	<1	
1,1-Dichloroethane, ug/L	<1	<1	<1	<1	
1,1-Dichloroethylene, ug/L	<1	<1	<1	<1	
1,2-Dichloroethane, ug/L	<1	<1	<1	<1	
1,2-Dichloropropane, ug/L	<1	<1	<1	<1	
1,3-Dichloropropene, ug/L	<1	<1	<1	<1	
2-Chloroethylvinylether, ug/L	<1	<1	<1	<1	
Acrolein, ug/L	<10	<10	<10	<10	
Acrylonitrile, ug/L	<10	<10	<10	<10	
Bromodichloromethane, ug/L	<1	<1	<1	<1	
Bromomethane, ug/L	<1	<1	<1	<1	
Benzene, ug/L	<1	<1	<1	<1	
Chlorobenzene, ug/L	<1	<1	<1	<1	
Carbon Tetrachloride, ug/L	<1	<1	<1	<1	
Chloroethane, ug/L	<1	<1	<1	<1	
Bromoform, ug/L	<1	<1	<1	<1	
Chloroform, ug/L	<1	<1	<1	<1	
Chloromethane, ug/L	<1	<1	<1	<1	
Dibromochloromethane, ug/L	<1	<1	<1	<1	
Ethylbenzene, ug/L	<1	<1	<1	<1	
Methylene chloride, ug/L	<1	<1	<1	<1	
Tetrachloroethylene, ug/L	<1	<1	<1	<1	



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03-589-1	OW-1	23 MAR 89			
03-589-2	OW-2	23 MAR 89			
03-589-3	OW-3	23 MAR 89			
03-589-4	OW-4	23 MAR 89			
PARAMETER		03-589-1	03-589-2	03-589-3	03-589-4
Trichloroethylene, ug/L		<1	<1	<1	<1
Trichlorofluoromethane, ug/L		<1	<1	<1	<1
Toluene, ug/L		<1	<1	<1	<1
Vinyl chloride, ug/L		<1	<1	<1	<1
1,2-Dichloroethene (Total), ug/L		<1	<1	<1	<1
trans-1,3-Dichloropropene, ug/L		<1	<1	<1	<1
1,1,1-Trichloroethane, ug/L		<1	<1	<1	<1
1,1,2,2-Tetrachloroethane, ug/L		<1	<1	<1	<1
2-Hexanone, ug/L		<1	<1	<1	<1
Acetone, ug/L		<10	<10	<10	<10
Carbon Disulfide, ug/L		<1	<1	<1	<1
Freon 113, ug/L		<1	<1	<1	<1
Methyl ethyl ketone, ug/L		<20	<20	<20	<20
Methyl isobutyl ketone, ug/L		<1	<1	<1	<1
Styrene, ug/L		<1	<1	<1	<1
Vinyl acetate, ug/L		<1	<1	<1	<1
Total Xylene Isomers, ug/L		<1	<1	<1	<1
Semi-Quantified Results **					
Diisopropyl Ether, ug/L		10	---	10	---
M - Dichlorobenzene, ug/L		2	---	1	---
P - Dichlorobenzene, ug/L		5	---	---	---

** Quantification based upon comparison of total ion count of the compound with that of the nearest internal standard.

Sim D. Lessley, Ph.D., Laboratory Director

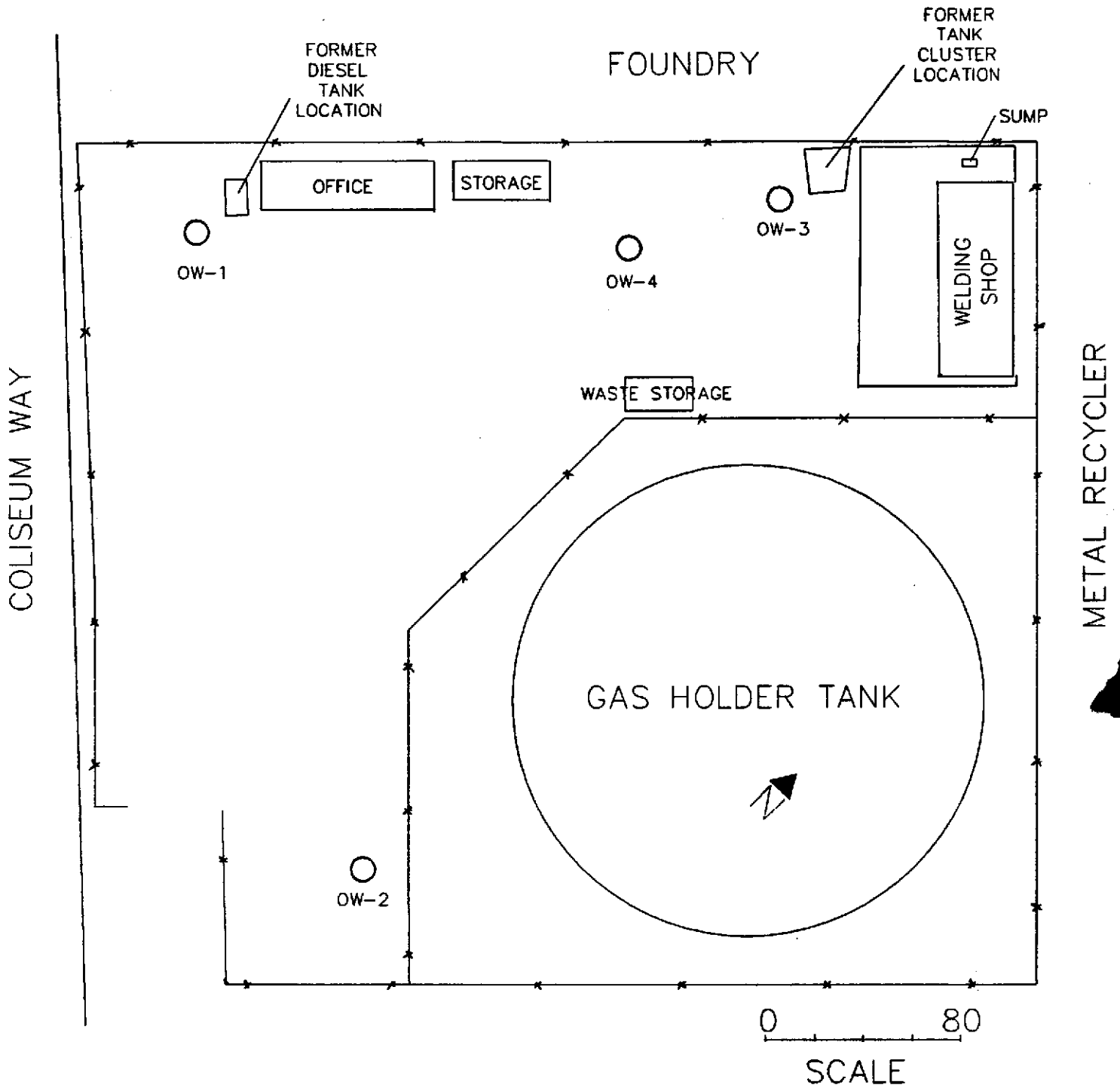


FIGURE 2. SITE PLAN AND MONITOR WELL LOCATIONS

PG&E WATER PURGING & SAMPLING LOG

SITE OAK GC Yard JOB ID 21A7
 SAMPLING DATE 1-26-90, by RWS
 PURGE DATE 1-26-90, by RWS

WELL NO GW-2
 WEATHER: clear

WATER ELEVATION/VOLUME CALCULATIONS

Description of Measuring Point (MP): TOC @ Blackmark

Total depth of well: 19.05 ft
 Depth (from MP) to Water: 3.24 ft Screen interval from ft to ft.
 Total water depth: 15.81 ft Hydrocarbons present: Yes No X
 Measurement method: solinst Hydrocarbons thickness:

PURGE VOLUME CALCULATION

15.81 ft water * casing factor = 2.7 gal/casing vol. * 3 volumes = 8.1 Total gals purged.
 Casing Factor: For 2" dia = 0.17 gal/ft
 (circle one) For 3" dia = 0.38 gal/ft
 For 4" dia = 0.66 gal/ft

DRAWDOWN DETERMINATION

Water level begin time: time pump on
 Water level end time: time pump off

PURGING

Time		Cumulative Discharge (gal)	pH	Conductivity μ mho/cm	Turbidity	°C Temp	Comments
Start	End						
1220	1230	5	7.16	1150	clear	22	pump heat
	1235	7	7.20	1140	"	22	" "
	1240	9	7.21	1190	"	22	" "

Method of discharge disposal ground
 Method of purging/sampling Honda pump/tellon bailer
 Method of cleaning bailer/pump: Alexox/DJ H^o
 Pump lines/bailer ropes new, cleaned or dedicated? (circle one)

pH meter MyronL calibrated YES conductivity meter MyronL calibrated YES
 temp corrected? YES

SAMPLES

Lab analyses to be performed TPH-D, TOT. FUELS, EPA 624, O&G
 Laboratory BAC

Remarks clear H₂O good recharge

PG&E WATER PURGING & SAMPLING LOG

SITE BAK GCYARD JOB ID 3647
 SAMPLING DATE 1-26-90, by RMG
 PURGE DATE 1-26-90, by RMG

WELL NO OW-3
 WEATHER: clear

WATER ELEVATION/VOLUME CALCULATIONS

Description of Measuring Point (MP): DC @ Black mark

Total depth of well: 18.50 ft
 Depth (from MP) to Water: 4.90 ft Screen interval from ft to ft.
 Total water depth: 13.60 ft Hydrocarbons present: Yes No
 Measurement method: solinst Hydrocarbons thickness:

PURGE VOLUME CALCULATION

13.6 ft water * casing factor 2.25 gal/casing vol. * 3 volumes = 7 Total gals purged.
 Casing Factor: For 2" dia = 0.17 gal/ft
 (circle one) For 3" dia = 0.38 gal/ft
 For 4" dia = 0.66 gal/ft

DRAWDOWN DETERMINATION

Water level begin time: time pump on
 Water level end time: time pump off

PURGING

Time		Cumulative Discharge (gal)	pH	Conductivity μ mho/cm	Turbidity	°C Temp	Comments
Start	End						
1045	1055	5	7.63	1870	clear	17.0	
	1057	6	7.64	1420	"	17.0	
	1059	7	7.57	1350	"	17.0	

Method of discharge disposal ground
 Method of purging/sampling Honda pump / yellow bailer
 Method of cleaning bailer/pump: Alconox / D.I. H₂O
 Pump lines/bailer ropes new, cleaned or dedicated? (circle one)

pH meter myron L calibrated yes conductivity meter myron L calibrated yes
 temp corrected? yes

SAMPLES

Lab analyses to be performed TPH-G, TPH-D, BTEX, DTG, EPA 624
 Laboratory B+C

Remarks clear purge H₂O, DUPE OF OW-3 labeled OW-5