N00296.000049
MOFFETT FIELD
SSIC NO. 5090.3

ASSESSMENT OF POTENTIAL FOR PUBLIC/PRIVATE WELLS AT MOFFETT FIELD NAS TO ACT AS CONDUITS FOR INTER-AQUIFER CROSS-CONTAMINATION

for

Department of the Navy
Western Division
Naval Facilities Engineering Command
San Bruno, California

by

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ESA Project 3110D

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ASSESSMENT OF POTENTIAL FOR PUBLIC/PRIVATE WELLS AT MOFFETT FIELD NAS TO ACT AS CONDUITS FOR INTER-AQUIFER CROSS-CONTAMINATION

INTRODUCTION

This technical report presents the results of an evaluation of the public/private wells located within, and in the immediate vicinity of the Moffett Field NAS, to act as potential conduits which might provide preferential pathways for the migration of contaminants between aquifers. This report was prepared by Earth Sciences Associates as part of the Confirmation (Verification Step) Study which they are conducting for the U.S. Navy at the Moffett Field NAS.

The potential conduits evaluation presented here only considers public/private wells located within, and in the immediate vicinity of the Moffett Field NAS, and focuses on those wells which were identified as part of the well survey conducted for the Verification Step study report (see Appendix G of Verification report). These include wells used for irrigation, and drinking water supply wells. It does not include any of the monitoring wells which have been installed at Moffett Field NAS by EMCON, ESA or Canonie Engineers as part of the ongoing studies. A review of available information indicates that all monitoring wells have been installed under the supervision of professional geotechnical consultants following SCVWD guidelines for well installation and construction. These wells are generally screened over comparatively short, well-defined intervals in any given aquifer zone. Because of these considerations, monitoring wells are not judged to be significant as potential conduits.

For evaluation of those wells which could act a potential conduits, all public/private wells located within and in the immediate vicinity of the Moffett Field NAS were considered irregardless of whether or not the wells are located in an area where contaminants have been identified in the ground water. The evaluation presented herein consists of the following items:

- The identification of all public/private wells located within the study area.

- Obtaining and reviewing available well logs and other information on the construction of the wells.

- Obtaining and reviewing information on pumping rates, water levels, well usage, etc.

- Sampling of wells to obtain ground water samples for chemical analyses and water level measurements, where possible.

- Evaluation of results of chemical analyses.

- Gamma logging of all wells.

- Performing downhole TV camera in all wells.

- Recommendations for future studies.

A discussion of the above work items is presented in subsequent sections of this report.

PUBLIC/PRIVATE WELLS

A survey of all public and private wells located within and in the immediate vicinity of the Moffett Field NAS was conducted as part of the Verification Step study. The results of this survey are presented in Appendix G of the Verification Step study report (ESA, 1985).

A listing of all the wells identified during the survey is presented in Table 1 and the location of the wells is shown on Figure 1. A total of 14 wells were identified. These wells can be classified as follows:

- 5 active wells
- 2 inactive wells
- 7 wells known to be covered or for which no evidence exists

Table 1

SUMMARY OF PRIVATE WELL SURVEY
MOFFETT FIELD NAS

Well No.	Total Depth (ft)	Source of Information	Log Availability	Present Condition	Owner	Comments
I.	Wells that are currently active					
24D1	655	SCVWD & Navy	no	used for agriculture	U.S. Navy	Active pumping well
24D3	722	SCVWD	yes	used for agriculture	Lockheed	Active pumping well; outside of Moffett
10G1(?)	≈200	SCWD & Mr. Navarro	no	used for agriculture	SCVWD	Active pumping well; outside of Moffett
10Q03	≈400	Mr. Navarro	no	used for agriculture	PG&E	Active pumping well; outside of Moffett
10Q*	1423	SCVWD	E-Log	used for agriculture	NASA	Active pumping well; outside of Moffett
II.	Wells that are either known to be covered or for which no evidence exists					
14A	unknown	HLA (85)	no	no evidence	U.S. Navy	Most of the records regarding wells on the Naval Air Station Moffett Field were reportedly destroyed in a fire several years ago
14C	unknown	HLA (85)	no	no evidence	U.S. Navy	
14F	unknown	HLA (85)	no	no evidence	U.S. Navy	
13D	unknown	HLA (85)	no	no evidence	U.S. Navy	
12N1	unknown	HLA (85)	no	no evidence	U.S. Navy	Old irrigation well, reportedly destroyed years ago
23A1	783	HLA (85)	no	covered	U.S. Navy	Adjacent to Moffett Field south perimeter, under roadway
14M*	unknown	U.S. Navy	no	covered		Steel well casing if filled with concrete and exposed
III.	Wells that are inactive					
14M1	1000	SCVWD/ U.S. Navy	yes	inactive	U.S. Navy	Located in Bldg. 532; plugged at a depth 33 feet
14M2	1020	SCVWD/ U.S. Navy	yes	inactive	U.S. Navy	Located in Bldg. 530

Available information on these wells was obtained from the files and personnel of:

- Moffett Field NAS
- Santa Clara Valley Water District
- Mr. Navarro - farmer at Moffett
- USGS Water Resources Division
- Mr. Bradford - Western Well Drilling Co.
- Canonie Engineers

Most of the wells were constructed in the 1930's (the NASA well 10Q* was installed in 1973) and little or no information exists. Little or no information on well construction procedures (drilling techniques, lithology logs, sand pack interval, screen intervals, type of casing, etc.) could be obtained. All of the active and inactive wells range from about 10 to 12 inches in diameter. Boring logs were only available for the two inactive wells, 14M1 and 14M2. These are included in Appendix A. Well 14M1 is gravel-packed from a depth of about 145 feet to the bottom of the well at a depth of 1000 feet. Within this depth interval it is screened at approximately 32 locations with the greatest screen interval of 69 feet extending from a depth of 892 to 961 feet (clay and gravel zone). Well 14M2 is gravel packed from a depth of about 150 feet to the bottom at a depth of 1020 feet. It is screened at approximately 30 locations with the maximum screen interval of 63 feet extending from a depth of 942 to 1005 feet (gravel and clay and gravel zone).

Estimates of pumping rates for all of the active wells (with the exception of the Lockheed well 24D3) are given in Table 2. This information is based on discussions with Mr. Navarro who operates these wells on Moffett. Also shown on this table are estimates of the pumping rates for wells 14M1 and 14M2 when they were used as production wells.

Wells 14M1 and 14M2

Wells 14M1 is located in Bldg. 532 across from the Public Works office at the Moffett Field NAS. Well 14M2 is in Bldg. 530 approximately 500 feet from Bldg. 532 (see Figure 1). Discussions with Moffett Field personnel has indicated that in

Table 2

APPROXIMATE PUMPING RATES
FOR PUBLIC/PRIVATE WELLS

Well No.	Status	Total Depth (ft)	Estimated Pumping Rate (gpm)	Lithologic Log	Availability of Geophysical/ Gamma Log
24D1	Active	655	?	no	no
24D3	Active	722	?	no	no
10G1	Active	≈200	15	no	no
10Q03	Active	≈400	400-680	no	no
10Q*	Active	1423	400-680	no	yes
14M1	Inactive	1000	1000[3]	yes	yes[1]
14M2	Inactive	1020	1000[3]	yes	yes[2]

Notes:

1 - only to a depth of 33 feet.

2 - only to a depth of 96 feet.

3 - based on information provided on lithologic logs.

the past the water level in both of these wells has risen to the ground floor of the buildings and that flooding of Bldg. 532 has frequently occurred. Therefore, a 6 inch diameter overflow pipe was connected from well M1 to the storm drain at a depth of approximately 1.75 feet below the top of the casing to prevent flooding. Nothing was done at well M2. Water levels in these two wells recorded at various times are tabulated in Table 3.

Table 3

WATER LEVEL MEASUREMENTS
IN WELLS M1 AND M2

	Water Level (inches) - depth from floor of building		
Well	10/23/85	2/26/86	3/7/86
14M1	30.5	16.1	11.4
14M2	51.5	28.3	18.6

During the most recent inspection of these two wells (March 7, 1986) water was flowing from well M1 to the storm drain at a rate of approximately 1 gpm.

Careful examination of these two wells by various organizations has indicated that wells M1 and M2 are blocked at depths of 33.5 feet and 96 feet, respectively. This blockage may extend all the way to the bottom of the wells and may be due to silting up of the wells. However, it may also be a partial blockage which only extends to a limited depth.

It is clear that these two wells can act as potential conduits for inter-aquifer cross-contamination. However, the extend of the blockage needs to be determined prior to closure of the wells. We would therefore recommend that drilling of the two wells be carried out in the near future to determine the extend of the blockage. If drilling to a depth of 50 to 75 feet below the present blockage levels indicates that the blockage still is present and that the wells are silted up, then further drilling can be discontinued, since it can be safely assumed that the entire well is silted up. In this case the wells should be filled with concrete and sealed to the ground surface.

If it is found that the wells are only partially blocked they should be cleaned out. After cleaning, gamma logging and downhole TV camera of both wells should be conducted. It may also be desirable to obtain ground water samples at discrete depths within the wells for chemical analyses. After these operations have been conducted closure of the wells by filling with concrete should be carried out.

GAMMA LOGGING AND DOWNHOLE TV CAMERA

Gamma logging and downhole TV camera of all active and inactive wells for which this information was not available was planned as part of the Verification Step study. Copies of geophysical logs for the NASA well (well 10Q*) were obtained from the SCVWD. In addition, copies of gamma logs performed in wells 14M1 and 14M2 by Canonie Engineers in November, 1985 were provided to ESA by Moffett Field personnel. The gamma logs for wells M1 and M2 only extend down to the depths at which the wells are blocked. Copies of these gammag logs are included in Appendix B.

Due to problems associated with obtaining owners permission and scheduling pulling of the pumps from the private active wells to allow access to the wells, it was not possible to perform these field investigations prior to submittal of this report. These activities will be conducted in the near future and the results submitted as an addendum to this report (with the exception of the Lockheed well 24D3).

CHEMICAL ANALYSES OF WELL GROUND WATER SAMPLES

Ground water samples for chemical analyses were obtained in four of the active wells (Lockheed well 24D3 was excluded), and the two inactive wells. Wells 14M1 and 14M2 do not contain an operating pump system. These wells were sampled using a single point source bottom draw stainless steel bailer. In well 14M1, ground water samples were taken at a depth of approximately 20 feet. In well 14M2 water samples were taken at the ground surface and at a depth of 50 feet. Neither well was purged of the water contained within the well casing prior to sampling.

All active wells containing an operating pump system were sampled by first turning on the pump for approximately 10 minutes and then taking a sample at the well head. The PG&E well (10Q03) was an active well but at the time of sampling it did not have an operating pump system. This well was sealed but contained a flowing overflow outlet from which the water sample was taken. At the time of sampling the pH, temperature and conductivity of the ground water were measured. The measured values for these parameters are tabulated in Table 4 together with the chemical analyses conducted for each well.

Table 4

FIELD MEASURED PARAMETERS AND CHEMICAL ANALYSES CONDUCTED FOR PUBLIC/PRIVATE WELLS

Well #	Date Sampled	Temperature (°C)	pH	Conductivity (umhos/cm)	Analyses Conducted VOC	BNA's
14M1	10/23/85	19.9	11.9	391	X	X
14M2	10/23/85	19.4	7.5	740	X	X
24D1	10/23/85	19.7	7.5	590	X	X
10G1	2/26/86	21.4	8.2	510	X	
10Q03	2/26/86	21.3	7.7	737	X	
10Q*	2/26/86	22.0	7.9	683	X	

Base/Neutral/Acids (BNA's) were not detected in any of the three wells which were analyzed for these compounds (14M1, 14M2 and 24D1). All of the active wells (including PGE's) which were analyzed for volatile organics (VO's) were clean. Several VO's were detected in wells 14M1 and 14M2. Volatile concentrations in both wells were low. All compounds were detected below 3 μg/l and most were below 1 μg/l.

Wells 14M1 and 14M2 were sampled by ESA on November 23, 1985. These two wells were also sampled for VO's by Canonie Engineers on November 11, 1985. The results of the chemical analyse performed by Canonie Engineers on these two wells

did not indicate the presence of volatile organics in well 14M1. For 14M2, the only volatile organic detected was TCE at a concentration of 3.5 μg/l.

Results of the chemical analyses are presented in Appendix C.

CONCLUSIONS AND RECOMMENDATIONS

Based on the evaluation which has been made of the public and private wells located within the study area, which could act as potential conduits for inter-aquifer cross-contamination, the following conclusions and recommendations are provided:

- All active wells are clean and at the present time are not considered to pose a significant problem as potential conduits.

- Gamma logging and downhole TV camera should be carried out in all active wells in the near future.

- Sampling of all active wells for VO's should be continued on a regular basis to insure that they have not been contaminated.

- Every effort should be made to obtain lithologic logs and well construction information for all active wells.

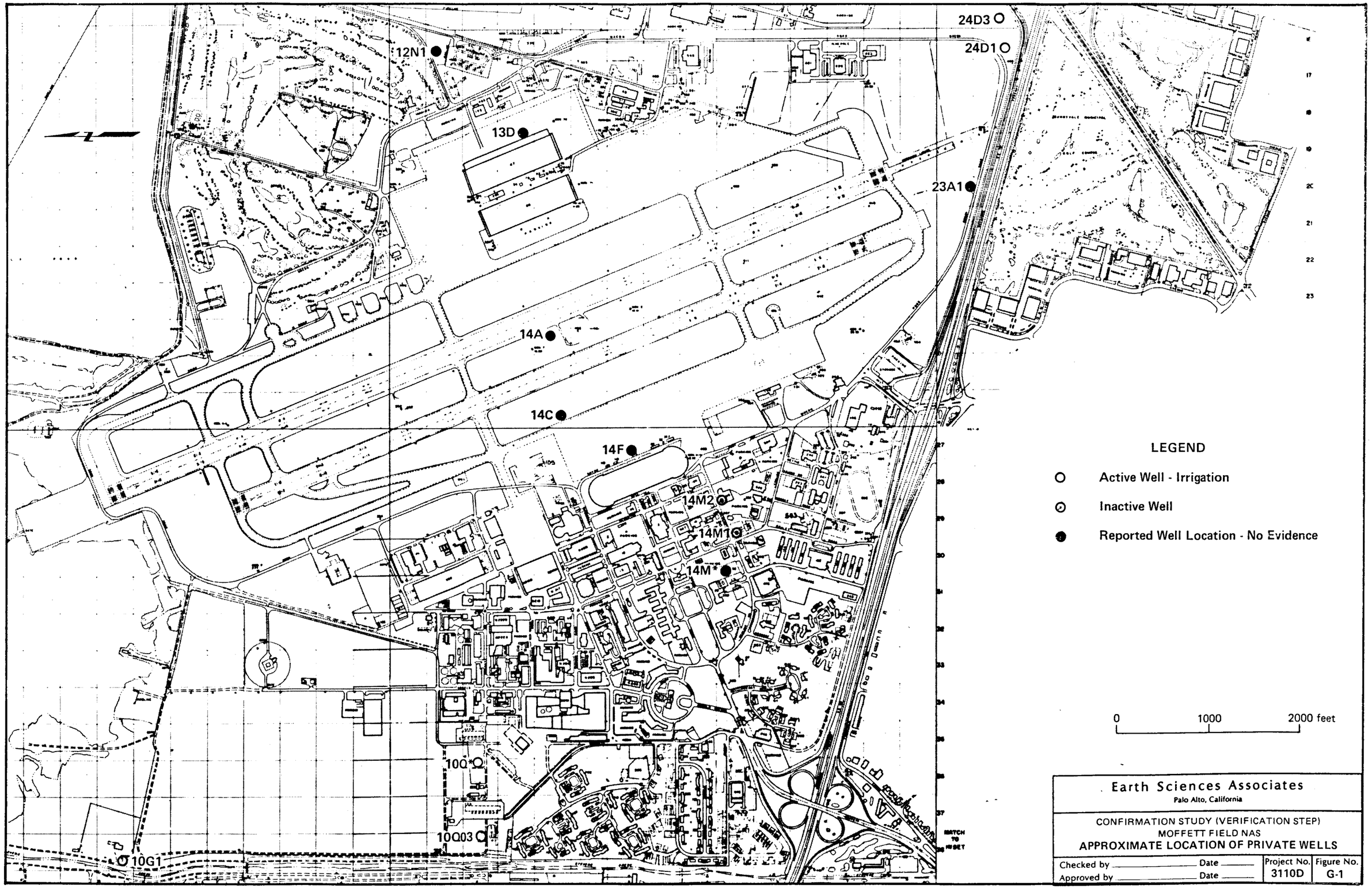
- Very low concentration of certain volatile compounds were detected in inactive wells 14M1 and 14M2.

- Because of the well construction procedures used for wells 14M1 and 14M2 they could pose a problem as potential conduits for inter-aquifer cross-contamination.

- The extend of the blockage presently existing in wells 14M1 and 14M2 should be determined by drilling of the two wells.

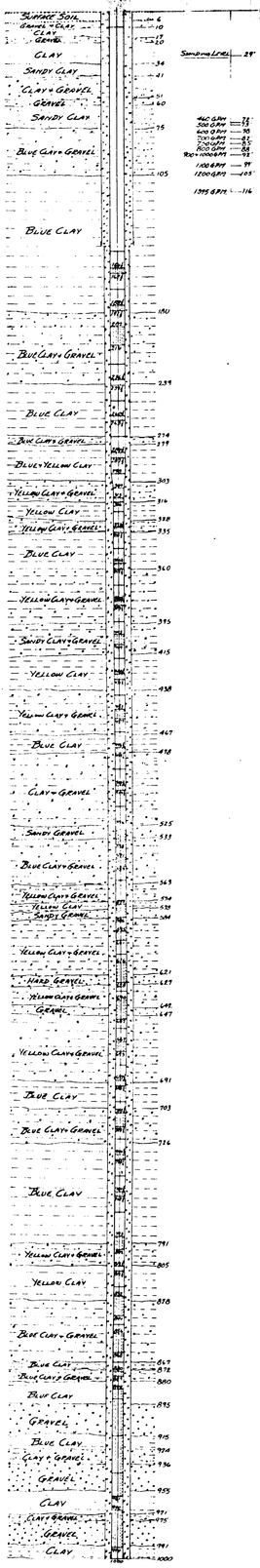
- If the blockage presently existing in wells 14M1 and 14M2 is established to extend for the entire length of the wells, the wells should be filled with concrete and sealed to the ground surface.

- If only a partial blockage exists in wells 14M1 and 14M2, gamma logging, downhole TV camera and additional sampling should be carried out in these two wells prior to sealing them with concrete.


24D3
24D1
12N1
13D
23A1
14A
14C
14F
14M2
14M1
14M*
10Q*
10Q03
10G1
MATCH TO INSET
LEGEND
Active Well - Irrigation
Inactive Well
Reported Well Location - No Evidence
0
1000
2000 feet
Earth Sciences Associates
Palo Alto, California
CONFIRMATION STUDY (VERIFICATION STEP)
MOFFETT FIELD NAS
APPROXIMATE LOCATION OF PRIVATE WELLS
Checked by
Date
Approved by
Date
Project No.
3110D
Figure No.
G-1

Appendix A

WELL LOGS

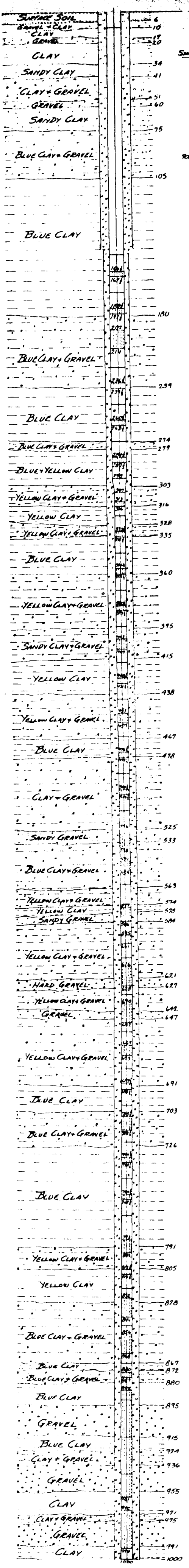


LOG AND TEST DATA
GRAVEL ENVELOPE WELL
SUNNYVALE NAVAL AIR STATION - WELL "B"
CONSTRUCTED BY
WESTERN PUMP COMPANY LTD
SAN JOSE, CALIFORNIA

(M1)

WELL 14M1

Log of Well 14M1
Figure G-2

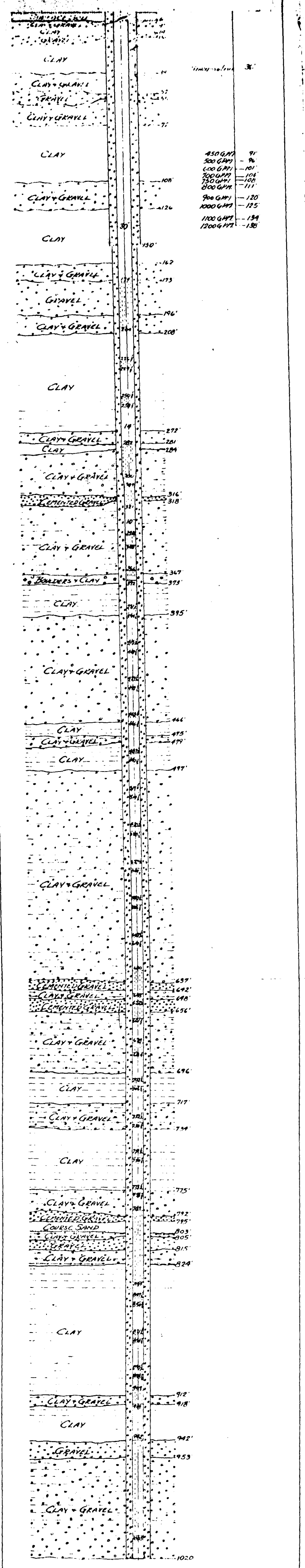


LOG AND TEST DATA
GRAVEL ENVELOPE WELL
SUNNYVALE NAVAL AIR STATION - WELL "B"
CONSTRUCTED BY
WESTERN PUMP COMPANY LTD.
SAN JOSE, CALIFORNIA

(M1)

WELL 14M1

Log of Well 14M1
Figure G-2



— LOG AND TEST DATA —
GRAVEL ENVELOPE WELL
SUNNYVALE AIR STATION WELL A"
CONSTRUCTED BY
WESTERN PUMP COMPANY, LTD.
SAN JOSE, CALIFORNIA.

WELL 14M2

(M2)

Log of Well 14M2
Figure G-3

Appendix B

GEOPHYSICAL LOGS

Dresser Atlas

Induction Electrology

FILE NO.

COMPANY N A S A

WELL AMES RESEARCH CENTER #10

FIELD MOFFETT FIELD

COUNTY SANTA CLARA STATE CALIFORNIA

LOCATION: 3300' S & 460' W FROM N/E CORNER OF

SEC 18 TWP 6 S RGE 2 W

Other Services: BHC

Permanent Datum	GL			Elev. 8 0	K.B.
Log Measured from	GL		0	Ft. Above Permanent Datum	D.F.
Drilling Measured from	GL				G.L.
Date	3-23-73				
Run No.	ONE				
Depth—Driller	1415				
Depth—Logger	1427				
Bottom Logged Interval	1423				
Top Logged Interval	195				
Casing—Driller	16 @ 200		@		@
Casing—Logger	195				
Bit Size	10"				
Type Fluid in Hole	GEL WATER				
Density and Viscosity	NR	NR	@		@
pH and Fluid Loss	NR	NR	NR		
Source of Sample	FLOWLINE				
Rm @ Meas. Temp.	9.70 @ 65 °F	@ °F		@ °F	@ °F
Rmf @ Meas. Temp.	8.50 @ 65 °F	@ °F		@ °F	@ °F
Rmc @ Meas. Temp.	10.0 @ 65 °F	@ °F		@ °F	@ °F
Source of Rmf and Rmc	M	M			
Rm @ BHT	6.50 @ 93 °F	@ °F		@ °F	@ °F
Time Since Circ.	2 HRS.				
Max. Rec. Temp. Deg. F	93		°F		°F
Equip. No. and Location	HL61DB BAK				
Recorded By	SHEED				
Witnessed By	MR. GUARDINO				

Equipment Used: Run No. ONE; Serial No. 12212; Type No. 10061; Elec. No. 10051; Panel No. 591

Equipment Data: Other; Pad Type: Type Position: S.D.

Borehole Changes: Size Up Hole; Size Down Hole

Depth: Type Log: Run No.: Test Type: ONE; Date: 3-23-73

Changes in Mud Type or Chemical Samples: Date; Sample No.; Depth; Type Fluid in Hole

Date; Time; pH; Fluid Loss; Source of Sample; Rm @ Meas. Temp.; Rmf @ Meas. Temp.; Rmc @ Meas. Temp.; Source of Rmf and Rmc; Rm @ BHT; Time Since Circ.; Max. Rec. Temp.

REMARKS

welenco

WELL ENGINEERING SURVEYS

Gamma-Ray Log

COMPANY CANONIE ENGINEERS

WELL M-1

FIELD MOFFETT

STATE CALIF. COUNTY ST. CLARA

LOCATION: Building #532

SEC. ____ TWP. ____ RGE. ____

OTHER SERVICES: NONE

PERMANENT DATUM ____ ELEV. ____

LOG MEASURED FROM TOP OF 14" CASING FT. ABOVE PERM. DATUM

DRILLING MEASURED FROM ____

ELEV.: K.B. ____ D.F. ____ G.L. ____

DATE	11-20-85		
RUN NO.	ONE		
TYPE LOG	GAMMA RAY		
DEPTH-DRILLER	~~N/A~~	1,000'+	
DEPTH-LOGGER	33'		
BOTTOM LOGGED INTERVAL	33'		
TOP LOGGED INTERVAL	Surface		
TYPE FLUID IN HOLE	WATER		
MAX. REC. TEMP., DEG. F.	N/A		
RECORDED BY	C. NEWMAN		
WITNESSED BY	DENNIS		

FIELD PRINT

RUN	BORE-HOLE RECORD			CASING RECORD			
NO.	BIT	FROM	TO	SIZE	WGT.	FROM	TO
1	30"	33'	Surface	14"	-	33'	Surface

EQUIPMENT DATA

Gamma Ray				Neutron			
Run No.	ONE			Run No.			
Tool Model No.	G274XLD			Log Type			
Diameter	2"			Tool Model No.			
Detector Model No.	-			Diameter			
Type	SCINT.			Detector Model No.			
Length	4"			Type			
Distance to N. Source	-			Length			
				Source Model No.			
General				Serial No.			
Hoist Truck No.	DV-1			Spacing			
Instrument Truck No.	DV-1			Type			
Tool Serial No.	153			Strength			

LOGGING DATA

General				Gamma Ray				Neutron			
Run No.	Depths From	Depths To	Speed Ft/Min	T.C. Sec.	Sens. Settings	Zero Div. L or R	API G.R. Units per Log Div.	T.C. Sec.	Sens. Settings	Zero Div. L or R	API N. Units per Log Div.
1	33'	SURFACE	20	4	100/580	-0	2				

Reference Literature:

Remarks:

welenco

WELL ENGINEERING SURVEYS

Gamma-Ray Log

COMPANY CANONIE ENGINEERS

WELL M-2

FIELD MOFFETT

STATE CALIF COUNTY ST. CLARA

LOCATION: Building #530

SEC. TWP. RGE.

OTHER SERVICES: NONE

PERMANENT DATUM: G.L. ELEV.

LOG MEASURED FROM ~~G.L.~~ TOP OF 14" CASING FT. ABOVE PERM. DATUM

DRILLING MEASURED FROM G.L.

ELEV.: K.B. D.F. G.L.

DATE	11-20-85		
RUN NO.	ONE		
TYPE LOG	GAMMA RAY		
DEPTH-DRILLER	~~N/A~~	1,000'	
DEPTH-LOGGER	96'		
BOTTOM LOGGED INTERVAL	96'		
TOP LOGGED INTERVAL	Surface		
TYPE FLUID IN HOLE	WATER		
MAX. REC. TEMP., DEG. F.	N/A		
RECORDED BY	C. NEWMAN		
WITNESSED BY	DENNIS		

FIELD PRINT

RUN NO.	BORE-HOLE RECORD BIT	FROM	TO	CASING RECORD SIZE	WGT.	FROM	TO
1	30"	96'	Surface	14"	-	96'	Surface

EQUIPMENT DATA

Gamma Ray				Neutron			
Run No.	ONE			Run No.			
Tool Model No.	G274XLD			Log Type			
Diameter	2"			Tool Model No.			
Detector Model No.	–			Diameter			
Type	SCINT			Detector Model No.			
Length	4"			Type			
Distance to N. Source	–			Length			
				Source Model No.			
General				Serial No.			
Hoist Truck No.	DV-1			Spacing			
Instrument Truck No.	DV-1			Type			
Tool Serial No.	153			Strength			

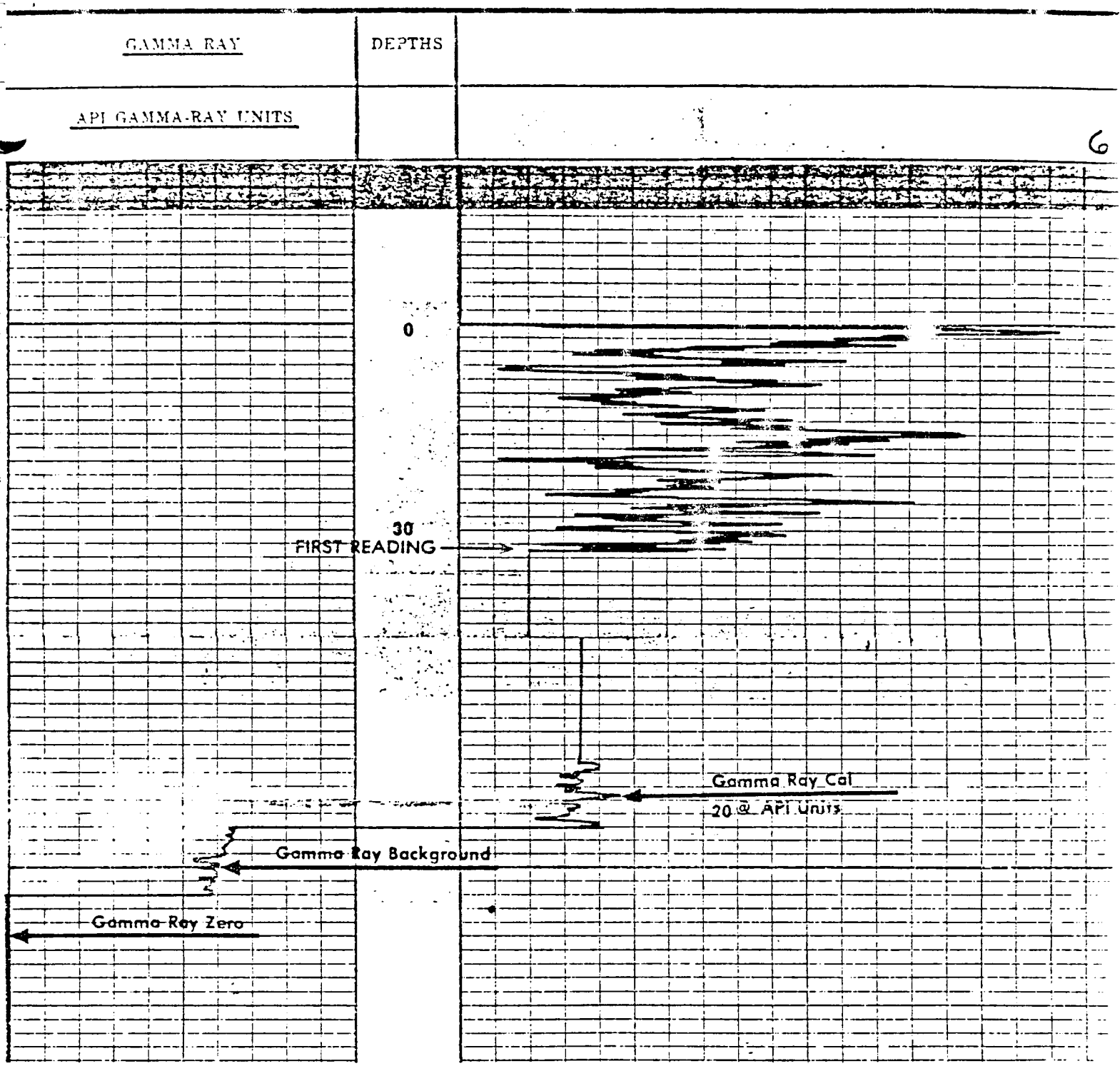
LOGGING DATA

General				Gamma Ray				Neutron			
Run No.	Depths From	Depths To	Speed Ft/Min.	T.C. Sec.	Sens. Settings	Zero Div. L or R	API G.R. Units per Log Div.	T.C. Sec.	Sens. Settings	Zero Div. L or R	API N. Units per Log Div.
1	96'	SURFACE	20	4	100/500	0	2				

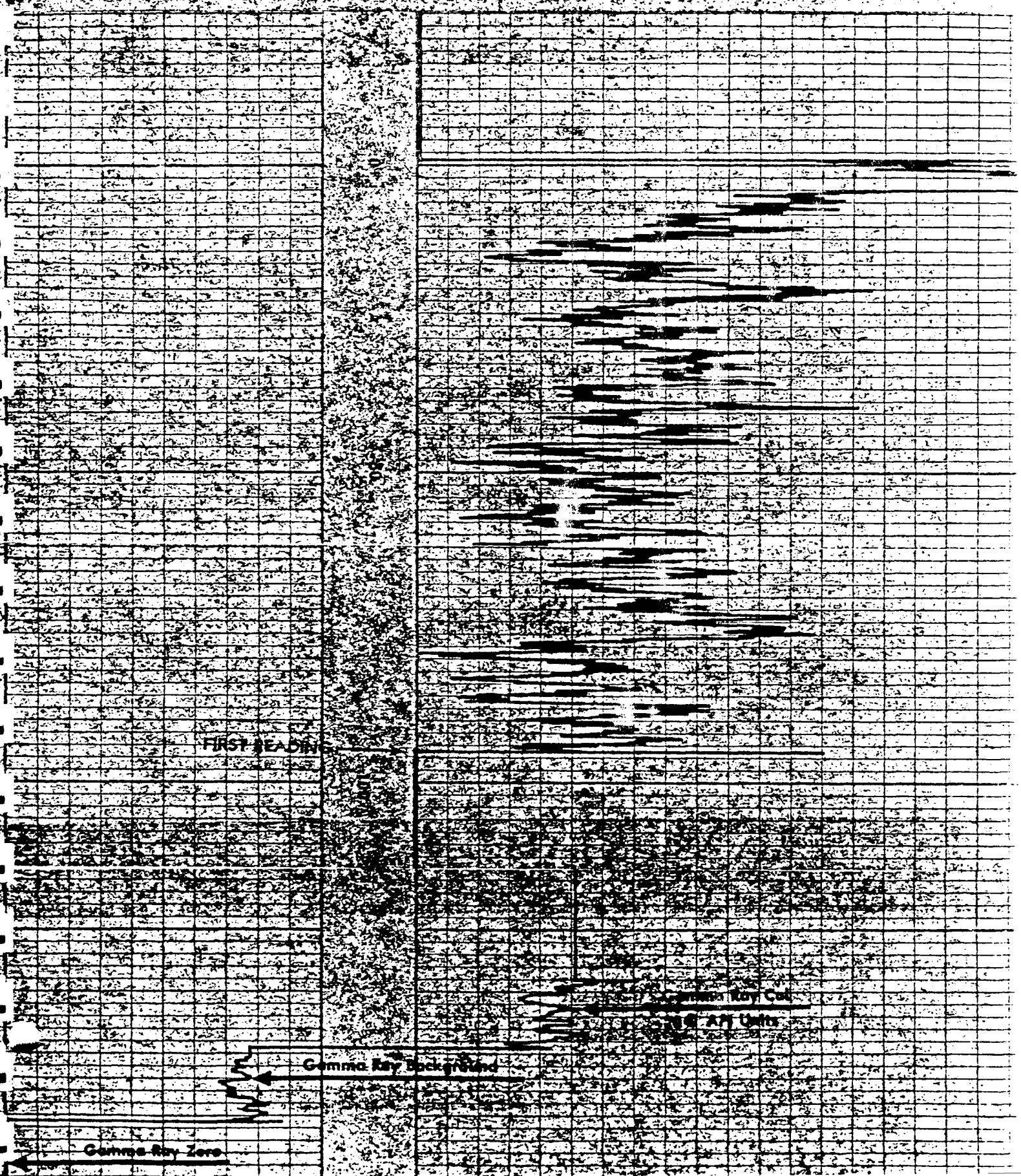
Reference Literature:

Remarks:

Fold Here


GAMMA RAY
DEPTHS
API GAMMA-RAY UNITS
6
0
30
FIRST READING
Gamma Ray Cal
20 @ API Units
Gamma Ray Background
Gamma Ray Zero

GAMMA RAY	DEPTHS	
API GAMMA-RAY UNITS		



Appendix C

RESULTS OF CHEMICAL ANALYSES

MONTGOMERY LABORATORIES
a division of James M. Montgomery, Consulting Engineers, Inc.
555 East Walnut Street, Pasadena, California 91101
(818) 796-9141 / (213) 681-4255 Telex 67-5420

Report of GC/MS Analysis for BASE/NEUTRAL/ACID EXTRACTABLE ORGANICS in Water

U.S. Navy-Moffett Field/JMM-WCK
501 Lennon Lane
Suite 200
Walnut Creek, CA 94598
Attn: Bob Cooley

Job#/PO#: 1621.0021
Workorder#: W05190
Report#: R19933
Phone #: 415-933-2250

Date Sampled: 10/23/85
Date Extracted: 10/30/85
Date Received: 10/24/85
Date Analyzed: 11/4/85

Lab Number: FA4633
Sample I.D.: M-1 (BLD. 532)

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
BASE/NEUTRAL EXTRACTABLE-PRIORITY POLLUTANTS:		
Acenaphthene	ND	5.0
Acenaphthylene	ND	5.0
Anthracene	ND	5.0
Benzidine	ND	50
Benzo(a)anthracene	ND	5.0
Benzo(a)pyrene	ND	5.0
3,4-Benzofluoranthene	ND	5.0
Benzo(g,h,i)perylene	ND	10
Benzo(k)fluoranthene	ND	5.0
bis(2-Chloroethoxy)methane	ND	10
bis(2-Choroethyl)ether	ND	10
bis(2-Chloroisopropyl)ether	ND	10
bis(2-Ethylhexyl)phthalate	ND	20
4-Bromophenylphenylether	ND	5.0
Butylbenzylphthalate	ND	5.0
2-Chloronaphthalene	ND	5.0
4-Chlorophenylphenylether	ND	5.0
Chrysene	ND	5.0

ND: Not Detected
NA: Not Analyzed
NQ: Not Quantified; detected below minimum detection limit
(): Tentative value only

Approved by R Eaton

NOV 11 1985

APPROVED
QC OFFICER

Report of GC/MS Analysis for BASE/NEUTRAL/ACID EXTRACTABLE ORGANICS in Water

Lab Number: FA4633
Sample I.D.: M-1 (BLD. 532)

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
BASE/NEUTRAL EXTRACTABLE-PRIORITY POLLUTANTS (continued):		
Dibenzo(a,h)anthracene	ND	10
1,2-Dichlorobenzene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
3,3'-Dichlorobenzidine	ND	50
Diethylphthalate	ND	5.0
Dimethylphthalate	ND	5.0
Di-n-butylphthalate	ND	10
2,4-Dinitrotoluene	ND	5.0
2,6-Dinitrotoluene	ND	5.0
Di-n-octylphthalate	ND	10
1,2-Diphenylhydrazine	ND	10
Fluoranthene	ND	5.0
Fluorene	ND	5.0
Hexachlorobenzene	ND	5.0
Hexachlorobutadiene	ND	10
Hexachlorocyclopentadiene	ND	10
Hexachloroethane	ND	5.0
Indeno(1,2,3-c,d)pyrene	ND	10
Isophorone	ND	5.0
Naphthalene	NQ	5.0
Nitrobenzene	ND	5.0
N-Nitrosodimethylamine	ND	5.0
N-Nitrosodi-N-propylamine	ND	5.0
N-Nitrosodiphenylamine	ND	5.0
Phenanthrene	NQ	5.0
Pyrene	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
ACID EXTRACTABLE PRIORITY POLLUTANTS:		
2-Chlorophenol	ND	5.0
2,4-Dichlorophenol	ND	5.0
2,4-Dimethylphenol	ND	5.0

ND: Not Detected
NA: Not Analyzed
NQ: Not Quantified; detected below minimum detection limit
(): Tentative value only

Report of GC/MS Analysis for BASE/NEUTRAL/ACID EXTRACTABLE ORGANICS in Water

Lab Number: FA4633
Sample I.D.: M-1 (BLD. 532)

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
ACID EXTRACTABLE PRIORITY POLLUTANTS (continued):		
4,6-Dinitro-o-cresol	ND	50
2,4-Dinitrophenol	ND	50
2-Nitrophenol	ND	5.0
4-Nitrophenol	ND	10
p-Chloro-m-cresol	ND	5.0
Pentachlorophenol	ND	10
Phenol	ND	5.0
2,4,6-Trichlorophenol	ND	5.0

ND: Not Detected
NA: Not Analyzed
NQ: Not Quantified; detected below minimum detection limit
(): Tentative value only

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555 East Walnut Street, Pasadena, California 91101
(818) 796-9141 / (213) 681-4255 Telex 67-5120

Report of GC/MS Analysis for BASE/NEUTRAL/ACID EXTRACTABLE ORGANICS in Water

U.S. Navy-Moffett Field/JMM-WCK
501 Lennon Lane
Suite 200
Walnut Creek, CA 94598
Attn: Bob Cooley

Job#/PO#: 1621.0021
Workorder#: W05190
Report#: R19934
Phone #: 415-933-2250

Date Sampled: 10/23/85
Date Extracted: 10/30/85
Date Received: 10/24/85
Date Analyzed: 11/6/85

Lab Number: FA4634
Sample I.D.: M-2 (BLD.530 @ SURF.WAT.TABLE

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
BASE/NEUTRAL EXTRACTABLE-PRIORITY POLLUTANTS:		
Acenaphthene	ND	5.0
Acenaphthylene	ND	5.0
Anthracene	ND	5.0
Benzidine	ND	50
Benzo(a)anthracene	ND	5.0
Benzo(a)pyrene	ND	5.0
3,4-Benzofluoranthene	ND	5.0
Benzo(g,h,i)perylene	ND	10
Benzo(k)fluoranthene	ND	5.0
bis(2-Chloroethoxy)methane	ND	10
bis(2-Choroethyl)ether	ND	10
bis(2-Chloroisopropyl)ether	ND	10
bis(2-Ethylhexyl)phthalate	ND	20
4-Bromophenylphenylether	ND	5.0
Butylbenzylphthalate	ND	5.0
2-Chloronaphthalene	ND	5.0
4-Chlorophenylphenylether	ND	5.0
Chrysene	ND	5.0

ND: Not Detected
NA: Not Analyzed
NQ: Not Quantified; detected below minimum detection limit
(): Tentative value only

Approved by A Eaton

Report of GC/MS Analysis for BASE/NEUTRAL/ACID EXTRACTABLE ORGANICS in Water

Lab Number: FA4634
Sample I.D.: M-2 (BLD.530 @ SURF.WAT.TABLE

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
BASE/NEUTRAL EXTRACTABLE-PRIORITY POLLUTANTS (continued):		
Dibenzo(a,h)anthracene	ND	10
1,2-Dichlorobenzene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
3,3'-Dichlorobenzidine	ND	50
Diethylphthalate	ND	5.0
Dimethylphthalate	ND	5.0
Di-n-butylphthalate	ND	10
2,4-Dinitrotoluene	ND	5.0
2,6-Dinitrotoluene	ND	5.0
Di-n-octylphthalate	ND	10
1,2-Diphenylhydrazine	ND	10
Fluoranthene	ND	5.0
Fluorene	ND	5.0
Hexachlorobenzene	ND	5.0
Hexachlorobutadiene	ND	10
Hexachlorocyclopentadiene	ND	10
Hexachloroethane	ND	5.0
Indeno(1,2,3-c,d)pyrene	ND	10
Isophorone	ND	5.0
Naphthalene	ND	5.0
Nitrobenzene	ND	5.0
N-Nitrosodimethylamine	ND	5.0
N-Nitrosodi-N-propylamine	ND	5.0
N-Nitrosodiphenylamine	ND	5.0
Phenanthrene	ND	5.0
Pyrene	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
ACID EXTRACTABLE PRIORITY POLLUTANTS:		
2-Chlorophenol	ND	5.0
2,4-Dichlorophenol	ND	5.0
2,4-Dimethylphenol	ND	5.0

ND: Not Detected
NA: Not Analyzed
NQ: Not Quantified; detected below minimum detection limit
(): Tentative value only

Report of GC/MS Analysis for BASE/NEUTRAL/ACID EXTRACTABLE ORGANICS in Water

Lab Number: FA4634
Sample I.D.: M-2 (BLD.530 @ SURF.WAT.TABLE

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
ACID EXTRACTABLE PRIORITY POLLUTANTS (continued):		
4,6-Dinitro-o-cresol	ND	50
2,4-Dinitrophenol	ND	50
2-Nitrophenol	ND	5.0
4-Nitrophenol	ND	10
p-Chloro-m-cresol	ND	5.0
Pentachlorophenol	ND	10
Phenol	ND	5.0
2,4,6-Trichlorophenol	ND	5.0

ND: Not Detected
NA: Not Analyzed
NQ: Not Quantified; detected below minimum detection limit
(): Tentative value only

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Report of GC/MS Analysis for BASE/NEUTRAL/ACID EXTRACTABLE ORGANICS in Water

U.s. Navy-Moffett Field/JMM-WCK
501 Lennon Lane
Suite 200
Walnut Creek, CA 94598
Attn: Bob Cooley

Job#/PO#: 1621.0021
Workorder#: W05190
Report#: R19940
Phone #: 415-933-2250

Date Sampled: 10/23/85
Date Extracted: 10/30/85
Date Received: 10/24/85
Date Analyzed: 11/4/85

Lab Number: FA4635
Sample I.D.: M-2 BLD.530 @ 52'BELOW W.TABLE

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
Acenaphthene	ND	5.0
Acenaphthylene	ND	5.0
Anthracene	ND	5.0
Benzidine	ND	50
Benzo(a)anthracene	ND	5.0
Benzo(a)pyrene	ND	5.0
3,4-Benzofluoranthene	ND	5.0
Benzo(g,h,i)perylene	ND	10
Benzo(k)fluoranthene	ND	5.0
bis(2-Chloroethoxy)methane	ND	10
bis(2-Choroethyl)ether	ND	10
bis(2-Chloroisopropyl)ether	ND	10
bis(2-Ethylhexyl)phthalate	ND	20
4-Bromophenylphenylether	ND	5.0
Butylbenzylphthalate	ND	5.0
2-Chloronaphthalene	ND	5.0
4-Chlorophenylphenylether	ND	5.0
Chrysene	ND	5.0
Dibenzo(a,h)anthracene	ND	10
1,2-Dichlorobenzene	ND	5.0
1,3-Dichlorobenzene	ND	5.0

ND: Not Detected
NA: Not Analyzed
NQ: Not Quantified; detected below minimum detection limit
(): Tentative value only

Approved by A. Eaton

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QC OFFICER

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Report of GC/MS Analysis for BASE/NEUTRAL/ACID EXTRACTABLE ORGANICS in Water

Lab Number: FA4635
Sample I.D.: M-2 BLD.530 @ 52'BELOW W.TABLE

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
1,4-Dichlorobenzene	ND	5.0
3,3'-Dichlorobenzidine	ND	50
Diethylphthalate	ND	5.0
Dimethylphthalate	ND	5.0
Di-n-butylphthalate	ND	10
2,4-Dinitrotoluene	ND	5.0
2,6-Dinitrotoluene	ND	5.0
Di-n-octylphthalate	ND	10
1,2-Diphenylhydrazine	ND	10
Fluoranthene	ND	5.0
Fluorene	ND	5.0
Hexachlorobenzene	ND	5.0
Hexachlorobutadiene	ND	10
Hexachlorocyclopentadiene	ND	10
Hexachloroethane	ND	5.0
Indeno(1,2,3-c,d)pyrene	ND	10
Isophorone	ND	5.0
Naphthalene	ND	5.0
Nitrobenzene	ND	5.0
N-Nitrosodimethylamine	ND	5.0
N-Nitrosodi-N-propylamine	ND	5.0
N-Nitrosodiphenylamine	ND	5.0
Phenanthrene	ND	5.0
Pyrene	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
2-Chlorophenol	ND	5.0
2,4-Dichlorophenol	ND	5.0
2,4-Dimethylphenol	ND	5.0
4,6-Dinitro-o-cresol	ND	50
2,4-Dinitrophenol	ND	50
2-Nitrophenol	ND	5.0
4-Nitrophenol	ND	10
p-Chloro-m-cresol	ND	5.0
Pentachlorophenol	ND	10
Phenol	ND	5.0
2,4,6-Trichlorophenol	ND	5.0

ND: Not Detected
NA: Not Analyzed
NQ: Not Quantified; detected below minimum detection limit
(): Tentative value only

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Report of GC/MS Analysis for BASE/NEUTRAL/ACID EXTRACTABLE ORGANICS in Water

U.s. Navy-Moffett Field/JMM-WCK
501 Lennon Lane
Suite 200
Walnut Creek, CA 94598
Attn: Bob Cooley

Job#/PO#: 1621.0021
Workorder#: W05190
Report#: R19932
Phone #: 415-933-2250

Date Sampled: 10/23/85
Date Extracted: 10/30/85
Date Received: 10/24/85
Date Analyzed: 11/4/85

Lab Number: FA4632
Sample I.D.: D-1

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
Acenaphthene	ND	5.0
Acenaphthylene	ND	5.0
Anthracene	ND	10
Benzidine	ND	5.0
Benzo(a)anthracene	ND	10
Benzo(a)pyrene	ND	5.0
3,4-Benzofluoranthene	ND	50
Benzo(g,h,i)perylene	ND	50
Benzo(k)fluoranthene	ND	5.0
bis(2-Chloroethoxy)methane	ND	5.0
bis(2-Choroethyl)ether	ND	5.0
bis(2-Chloroisopropyl)ether	ND	5.0
bis(2-Ethylhexyl)phthalate	ND	5.0
4-Bromophenylphenylether	ND	5.0
Butylbenzylphthalate	ND	5.0
2-Chloronaphthalene	ND	5.0
4-Chlorophenylphenylether	ND	5.0
Chrysene	ND	5.0
Dibenzo(a,h)anthracene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,3-Dichlorobenzene	ND	10

ND: Not Detected
NA: Not Analyzed
NQ: Not Quantified; detected below minimum detection limit
(): Tentative value only

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Report of GC/MS Analysis for BASE/NEUTRAL/ACID EXTRACTABLE ORGANICS in Water

Lab Number: FA4632
Sample I.D.: D-1

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
1,4-Dichlorobenzene	ND	5.0
3,3'-Dichlorobenzidine	ND	10
Diethylphthalate	ND	10
Dimethylphthalate	ND	5.0
Di-n-butylphthalate	ND	5.0
2,4-Dinitrotoluene	ND	5.0
2,6-Dinitrotoluene	ND	10
Di-n-octylphthalate	ND	10
1,2-Diphenylhydrazine	ND	5.0
Fluoranthene	ND	5.0
Fluorene	ND	10
Hexachlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Hexachlorocyclopentadiene	ND	50
Hexachloroethane	ND	5.0
Indeno(1,2,3-c,d)pyrene	ND	5.0
Isophorone	ND	5.0
Naphthalene	ND	10
Nitrobenzene	ND	5.0
N-Nitrosodimethylamine	ND	5.0
N-Nitrosodi-N-propylamine	ND	5.0
N-Nitrosodiphenylamine	ND	5.0
Phenanthrene	ND	5.0
Pyrene	ND	20
1,2,4-Trichlorobenzene	ND	10
2-Chlorophenol	ND	10
2,4-Dichlorophenol	ND	10
2,4-Dimethylphenol	ND	5.0
4,6-Dinitro-o-cresol	ND	10
2,4-Dinitrophenol	ND	5.0
2-Nitrophenol	ND	5.0
4-Nitrophenol	ND	5.0
p-Chloro-m-cresol	ND	50
Pentachlorophenol	ND	5.0
Phenol	ND	5.0
2,4,6-Trichlorophenol	ND	5.0

ND: Not Detected
NA: Not Analyzed
NQ: Not Quantified; detected below minimum detection limit
(): Tentative value only

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Report of GC/MS Analysis for
VOLATILE ORGANICS
in Water

U.S. Navy-Moffett Field/JMM-WCX
501 Lennon Lane
Suite 200
Walnut Creek, CA 94598
Attn: Bob Cooley

Job#/PO#: 1621.0021
Workorder#: W05190
Report#: R19936
Phone #: 415-933-2250

Date Sampled: 10/23/85
Date Analyzed: 10/31/85
Date Received: 10/24/85

Lab Number: FA4633
Sample I.D.: M-1 (BLD. 532)

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
VOLATILE PRIORITY POLLUTANTS:		
Acrolein	ND	5.0
Acrylonitrile	ND	5.0
Benzene	(0.4)	0.5
Bromoform	ND	0.5
Carbon Tetrachloride	ND	0.5
Chlorobenzene	ND	0.5
Dibromochloromethane	ND	0.5
Chloroethane	ND	0.5
2-Chloroethylvinylether	ND	0.5
Chloroform	ND	0.5
Dichlorobromomethane	ND	0.5
1,1-Dichloroethane	ND	0.5
1,2-Dichloroethane	ND	0.5
1,1-Dichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Ethylbenzene	0.7	0.5
Methyl Bromide	ND	0.5
Methyl Chloride	ND	0.5
Methylene Chloride	ND	0.5

ND: Not Detected
NA: Not Analyzed
NQ: Not Quantified; detected below minimum detection limit
(): Tentative value only

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Report of GC/MS Analysis for VOLATILE ORGANICS in Water

Lab Number: FA4633
Sample I.D.: M-1 (BLD. 532)

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
VOLATILE PRIORITY POLLUTANTS (continued):		
1,1,2,2-Tetrachloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Toluene	1.1	0.5
1,1,1-Trichloroethane	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Trichloroethene	(0.4)	0.5
Vinyl Chloride	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Trichlorofluoromethane	ND	0.5
VOLATILE NON-PRIORITY POLLUTANTS:		
Acetone	ND	0.5
Methylethylketone	ND	0.5
Tetrahydrofuran	ND	0.5
m,p-Xylenes	2.9	0.5
o-Xylene	1.5	0.5
cis-1,2-Dichloroethene	ND	0.5

ND: Not Detected
NA: Not Analyzed
NQ: Not Quantified; detected below minimum detection limit
(): Tentative value only

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555 East Walnut Street, Pasadena, California 91101
(818) 796-9141 / (213) 681-4255 Telex 67-5420

Report of GC/MS Analysis for VOLATILE ORGANICS in Water

U.s. Navy-Moffett Field/JMM-WCK
501 Lennon Lane
Suite 200
Walnut Creek, CA 94598
Attn: Bob Cooley

Job#/PO#: 1621.0021
Workorder#: W05190
Report#: R19944
Phone #: 415-933-2250

Date Sampled: 10/23/85
Date Analyzed: 10/31/85
Date Received: 10/24/85

Lab Number: FA4637
Sample I.D.: T.B.-M-1 BLD.532 (9/30)

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
VOLATILE PRIORITY POLLUTANTS:		
Acrolein	ND	5.0
Acrylonitrile	ND	5.0
Benzene	ND	0.5
Bromoform	ND	0.5
Carbon Tetrachloride	ND	0.5
Chlorobenzene	ND	0.5
Dibromochloromethane	ND	0.5
Chloroethane	ND	0.5
2-Chloroethylvinylether	ND	0.5
Chloroform	ND	0.5
Dichlorobromomethane	ND	0.5
1,1-Dichloroethane	ND	0.5
1,2-Dichloroethane	ND	0.5
1,1-Dichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Ethylbenzene	ND	0.5
Methyl Bromide	ND	0.5
Methyl Chloride	ND	0.5
Methylene Chloride	ND	0.5

ND: Not Detected
NA: Not Analyzed
NQ: Not Quantified; detected below minimum detection limit
(): Tentative value only

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Report of GC/MS Analysis for VOLATILE ORGANICS in Water

Lab Number: FA4637
Sample I.D.: T.B.-M-1 BLD.532 (9/30)

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
VOLATILE PRIORITY POLLUTANTS (continued):		
1,1,2,2-Tetrachloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Toluene	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Trichloroethene	ND	0.5
Vinyl Chloride	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Trichlorofluoromethane	ND	0.5
VOLATILE NON-PRIORITY POLLUTANTS:		
Acetone	ND	0.5
Methylethylketone	ND	0.5
Tetrahydrofuran	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
cis-1,2-Dichloroethene	ND	0.5

ND: Not Detected
NA: Not Analyzed
NQ: Not Quantified; detected below minimum detection limit
(): Tentative value only

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(818) 796-9141 / (213) 681-4255 Telex 67-5420

Report of GC/MS Analysis for VOLATILE ORGANICS in Water

U.s. Navy-Moffett Field/JMM-WCK
501 Lennon Lane
Suite 200
Walnut Creek, CA 94598
Attn: Bob Cooley

Job#/PO#: 1621.0021
Workorder#: W05190
Report#: R19937
Phone #: 415-933-2250

Date Sampled: 10/23/85
Date Analyzed: 10/31/85
Date Received: 10/24/85

Lab Number: FA4634
Sample I.D.: M-2 (BLD.530 @ SURF.WAT.TABLE

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
VOLATILE PRIORITY POLLUTANTS:		
Acrolein	ND	5.0
Acrylonitrile	ND	5.0
Benzene	ND	0.5
Bromoform	ND	0.5
Carbon Tetrachloride	ND	0.5
Chlorobenzene	ND	0.5
Dibromochloromethane	ND	0.5
Chloroethane	ND	0.5
2-Chloroethylvinylether	ND	0.5
Chloroform	ND	0.5
Dichlorobromomethane	ND	0.5
1,1-Dichloroethane	(0.2)	0.5
1,2-Dichloroethane	ND	0.5
1,1-Dichloroethene	(0.1)	0.5
1,2-Dichloropropane	ND	0.5
Ethylbenzene	ND	0.5
Methyl Bromide	ND	0.5
Methyl Chloride	ND	0.5
Methylene Chloride	ND	0.5

ND: Not Detected
NA: Not Analyzed
NQ: Not Quantified; detected below minimum detection limit
(): Tentative value only

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Report of GC/MS Analysis for VOLATILE ORGANICS in Water

Lab Number: FA4634
Sample I.D.: M-2 (BLD.530 @ SURF.WAT.TABLE

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
VOLATILE PRIORITY POLLUTANTS (continued):		
1,1,2,2-Tetrachloroethane	ND	0.5
Tetrachloroethene	(0.3)	0.5
Toluene	ND	0.5
1,1,1-Trichloroethane	(0.2)	0.5
1,1,2-Trichloroethane	ND	0.5
Trichloroethene	1.6	0.5
Vinyl Chloride	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Trichlorofluoromethane	ND	0.5
VOLATILE NON-PRIORITY POLLUTANTS:		
Acetone	ND	0.5
Methylethylketone	ND	0.5
Tetrahydrofuran	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
cis-1,2-Dichloroethene	(0.4)	0.5

ND: Not Detected
NA: Not Analyzed
NQ: Not Quantified; detected below minimum detection limit
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555 East Walnut Street, Pasadena, California 91101
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Report of GC/MS Analysis for VOLATILE ORGANICS in Water

U.s. Navy-Moffett Field/JMM-WCK
501 Lennon Lane
Suite 200
Walnut Creek, CA 94598
Attn: Bob Cooley

Job#/PO#: 1621.0021
Workorder#: W05190
Report#: R19945
Phone #: 415-933-2250

Date Sampled: 10/23/85
Date Analyzed: 10/31/85
Date Received: 10/24/85

Lab Number: FA4638
Sample I.D.: T.B.-M-2 BLD.530 (9/30)

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
VOLATILE PRIORITY POLLUTANTS:		
Acrolein	ND	5.0
Acrylonitrile	ND	5.0
Benzene	ND	0.5
Bromoform	ND	0.5
Carbon Tetrachloride	ND	0.5
Chlorobenzene	ND	0.5
Dibromochloromethane	ND	0.5
Chloroethane	ND	0.5
2-Chloroethylvinylether	ND	0.5
Chloroform	ND	0.5
Dichlorobromomethane	ND	0.5
1,1-Dichloroethane	ND	0.5
1,2-Dichloroethane	ND	0.5
1,1-Dichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Ethylbenzene	ND	0.5
Methyl Bromide	ND	0.5
Methyl Chloride	ND	0.5
Methylene Chloride	ND	0.5

ND: Not Detected
NA: Not Analyzed
NQ: Not Quantified; detected below minimum detection limit
(): Tentative value only

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Report of GC/MS Analysis for VOLATILE ORGANICS in Water

Lab Number: FA4 38
Sample I.D.: T.B.-M-2 BLD.530 (9/30)

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
VOLATILE PRIORITY POLLUTANTS (continued):		
1,1,2,2-Tetrachloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Toluene	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Trichloroethene	ND	0.5
Vinyl Chloride	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Trichlorofluoromethane	ND	0.5
VOLATILE NON-PRIORITY POLLUTANTS:		
Acetone	ND	0.5
Methylethylketone	ND	0.5
Tetrahydrofuran	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
cis-1,2-Dichloroethene	ND	0.5

ND: Not Detected
NA: Not Analyzed
NQ: Not Quantified; detected below minimum detection limit
(): Tentative value only

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Report of GC/MS Analysis for VOLATILE ORGANICS in Water

U.s. Navy-Moffett Field/JMM-WCK
501 Lennon Lane
Suite 200
Walnut Creek, CA 94598
Attn: Bob Cooley

Job#/PO#: 1621.0021
Workorder#: W05190
Report#: R19935
Phone #: 415-933-2250

Date Sampled: 10/23/85
Date Analyzed: 10/31/85
Date Received: 10/24/85

Lab Number: FA4632
Sample I.D.: D-1

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
VOLATILE PRIORITY POLLUTANTS:		
Acrolein	ND	5.0
Acrylonitrile	ND	5.0
Benzene	ND	0.5
Bromoform	ND	0.5
Carbon Tetrachloride	ND	0.5
Chlorobenzene	ND	0.5
Dibromochloromethane	ND	0.5
Chloroethane	ND	0.5
2-Chloroethylvinylether	ND	0.5
Chloroform	ND	0.5
Dichlorobromomethane	ND	0.5
1,1-Dichloroethane	ND	0.5
1,2-Dichloroethane	ND	0.5
1,1-Dichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Ethylbenzene	ND	0.5
Methyl Bromide	ND	0.5
Methyl Chloride	ND	0.5
Methylene Chloride	ND	0.5

ND: Not Detected
NA: Not Analyzed
NQ: Not Quantified; detected below minimum detection limit
(): Tentative value only

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Report of GC/MS Analysis for VOLATILE ORGANICS in Water

Lab Number: FA4632
Sample I.D.: D-1

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
VOLATILE PRIORITY POLLUTANTS (continued):		
1,1,2,2-Tetrachloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Toluene	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Trichloroethene	ND	0.5
Vinyl Chloride	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Trichlorofluoromethane	ND	0.5
VOLATILE NON-PRIORITY POLLUTANTS:		
Acetone	ND	0.5
Methylethylketone	ND	0.5
Tetrahydrofuran	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
cis-1,2-Dichloroethene	ND	0.5

ND: Not Detected
NA: Not Analyzed
NQ: Not Quantified; detected below minimum detection limit
(): Tentative value only

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Report of GC/MS Analysis for VOLATILE ORGANICS in Water

U.s. Navy-Moffett Field/JMM-WCK
501 Lennon Lane
Suite 200
Walnut Creek, CA 94598
Attn: Bob Cooley

Job#/PO#: 1621.0021
Workorder#: W05190
Report#: R19943
Phone #: 415-933-2250

Date Sampled: 10/23/85
Date Analyzed: NA
Date Received: 10/24/85

Lab Number: FA4636
Sample I.D.: T.B.-D-1 (9/30)

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
VOLATILE PRIORITY POLLUTANTS:		
Acrolein	NA	5.0
Acrylonitrile	NA	5.0
Benzene	NA	0.5
Bromoform	NA	0.5
Carbon Tetrachloride	NA	0.5
Chlorobenzene	NA	0.5
Dibromochloromethane	NA	0.5
Chloroethane	NA	0.5
2-Chloroethylvinylether	NA	0.5
Chloroform	NA	0.5
Dichlorobromomethane	NA	0.5
1,1-Dichloroethane	NA	0.5
1,2-Dichloroethane	NA	0.5
1,1-Dichloroethene	NA	0.5
1,2-Dichloropropane	NA	0.5
Ethylbenzene	NA	0.5
Methyl Bromide	NA	0.5
Methyl Chloride	NA	0.5
Methylene Chloride	NA	0.5

ND: Not Detected
NA: Not Analyzed
NQ: Not Quantified; detected below minimum detection limit
(): Tentative value only

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Report of GC/MS Analysis for
VOLATILE ORGANICS
in Water

Lab Number: FA4636
Sample I.D.: T.B.-D-1 (9/30)

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
VOLATILE PRIORITY POLLUTANTS (continued):		
1,1,2,2-Tetrachloroethane	NA	0.5
Tetrachloroethene	NA	0.5
Toluene	NA	0.5
1,1,1-Trichloroethane	NA	0.5
1,1,2-Trichloroethane	NA	0.5
Trichloroethene	NA	0.5
Vinyl Chloride	NA	0.5
trans-1,3-Dichloropropene	NA	0.5
cis-1,3-Dichloropropene	NA	0.5
trans-1,2-Dichloroethene	NA	0.5
Trichlorofluoromethane	NA	0.5
VOLATILE NON-PRIORITY POLLUTANTS:		
Acetone	NA	0.5
Methylethylketone	NA	0.5
Tetrahydrofuran	NA	0.5
m,p-Xylenes	NA	0.5
o-Xylene	NA	0.5
cis-1,2-Dichloroethene	NA	0.5

Note: Travel blank not analyzed because sample was clean.

ND: Not Detected
NA: Not Analyzed
NQ: Not Quantified; detected below minimum detection limit
(): Tentative value only

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Report of GC/MS Analysis for
VOLATILE ORGANICS
in Water

U.S. Navy-Moffett Field/JMM-WCK
501 Lennon Lane
Suite 200
Walnut Creek, CA 94598
Attn: Bob Cooley

Job#/PO#: 1621.0021
Workorder#: W06531
Report#: R25201
Phone #: 415-933-2250

Date Sampled: 2/26/86
Date Analyzed: 2/28/86
Date Received: 2/27/86

Lab Number: G23732
Sample I.D.: FARMERS WELL (2/26)
10 G 1

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
VOLATILE PRIORITY POLLUTANTS:		
Acrolein	ND	1.0
Acrylonitrile	ND	1.0
Benzene	ND	0.1
Bromoform	ND	0.1
Carbon Tetrachloride	ND	0.1
Chlorobenzene	ND	0.1
Dibromochloromethane	ND	0.1
Chloroethane	ND	0.1
2-Chloroethylvinylether	ND	0.1
Chloroform	ND	0.1
Dichlorobromomethane	ND	0.1
1,1-Dichloroethane	ND	0.1
1,2-Dichloroethane	ND	0.1
1,1-Dichloroethene	ND	0.1
1,2-Dichloropropane	ND	0.1
Ethylbenzene	ND	0.1
Methyl Bromide	ND	0.1
Methyl Chloride	ND	0.1
Methylene Chloride	ND	0.1

ND: Not Detected
NA: Not Analyzed
NQ: Not Quantified; detected below minimum detection limit
(): Tentative value only

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Report of GC/MS Analysis for VOLATILE ORGANICS in Water

Lab Number: G23732
Sample I.D.: FARMERS WELL (2/26)

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
VOLATILE PRIORITY POLLUTANTS (continued):		
1,1,2,2-Tetrachloroethane	ND	0.1
Tetrachloroethene	ND	0.1
Toluene	ND	0.1
1,1,1-Trichloroethane	ND	0.1
1,1,2-Trichloroethane	ND	0.1
Trichloroethene	ND	0.1
Vinyl Chloride	ND	0.1
trans-1,3-Dichloropropene	ND	0.1
cis-1,3-Dichloropropene	ND	0.1
trans-1,2-Dichloroethene	ND	0.1
Trichlorofluoromethane	ND	0.1
VOLATILE NON-PRIORITY POLLUTANTS:		
m,p-Xylenes	ND	0.1
o-Xylene	ND	0.1
cis-1,2-Dichloroethene	ND	0.1

ND: Not Detected
NA: Not Analyzed
NQ: Not Quantified; detected below minimum detection limit
(): Tentative value only

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Report of GC/MS Analysis for
VOLATILE ORGANICS
in Water

U.S. Navy-Moffett Field/JMM-WCK
501 Lennon Lane
Suite 200
Walnut Creek, CA 94598
Attn: Bob Cooley

Job#/PO#: 1621.0021
Workorder#: W06531
Report#: R25202
Phone #: 415-933-2250

Date Sampled: 2/26/86
Date Analyzed: 2/28/86
Date Received: 2/27/86

Lab Number: G23733
Sample I.D.: PG & E WELL (2/26)
10 Q03

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
VOLATILE PRIORITY POLLUTANTS:		
Acrolein	ND	1.0
Acrylonitrile	ND	1.0
Benzene	ND	0.1
Bromoform	ND	0.1
Carbon Tetrachloride	ND	0.1
Chlorobenzene	ND	0.1
Dibromochloromethane	ND	0.1
Chloroethane	ND	0.1
2-Chloroethylvinylether	ND	0.1
Chloroform	ND	0.1
Dichlorobromomethane	ND	0.1
1,1-Dichloroethane	ND	0.1
1,2-Dichloroethane	ND	0.1
1,1-Dichloroethene	ND	0.1
1,2-Dichloropropane	ND	0.1
Ethylbenzene	ND	0.1
Methyl Bromide	ND	0.1
Methyl Chloride	ND	0.1
Methylene Chloride	ND	0.1

ND: Not Detected
NA: Not Analyzed
NQ: Not Quantified; detected below minimum detection limit
(): Tentative value only

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Report of GC/MS Analysis for VOLATILE ORGANICS in Water

Lab Number: G23733
Sample I.D.: PG & E WELL (2/26)

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
VOLATILE PRIORITY POLLUTANTS (continued):		
1,1,2,2-Tetrachloroethane	ND	0.1
Tetrachloroethene	ND	0.1
Toluene	ND	0.1
1,1,1-Trichloroethane	ND	0.1
1,1,2-Trichloroethane	ND	0.1
Trichloroethene	ND	0.1
Vinyl Chloride	ND	0.1
trans-1,3-Dichloropropene	ND	0.1
cis-1,3-Dichloropropene	ND	0.1
trans-1,2-Dichloroethene	ND	0.1
Trichlorofluoromethane	ND	0.1
VOLATILE NON-PRIORITY POLLUTANTS:		
m,p-Xylenes	ND	0.1
o-Xylene	ND	0.1
cis-1,2-Dichloroethene	ND	0.1

ND: Not Detected
NA: Not Analyzed
NQ: Not Quantified; detected below minimum detection limit
(): Tentative value only

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Report of GC/MS Analysis for VOLATILE ORGANICS in Water

U.s. Navy-Moffett Field/JMM-WCK
501 Lennon Lane
Suite 200
Walnut Creek, CA 94598
Attn: Bob Cooley

Job#/PO#: 1621.0021
Workorder#: W06531
Report#: R25203
Phone #: 415-933-2250

Date Sampled: 2/26/86
Date Analyzed: 2/28/86
Date Received: 2/27/86

Lab Number: G23734
Sample I.D.: NASA WELL (2/26)
10 Q*

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
VOLATILE PRIORITY POLLUTANTS:		
Acrolein	ND	1.0
Acrylonitrile	ND	1.0
Benzene	ND	0.1
Bromoform	ND	0.1
Carbon Tetrachloride	ND	0.1
Chlorobenzene	ND	0.1
Dibromochloromethane	ND	0.1
Chloroethane	ND	0.1
2-Chloroethylvinylether	ND	0.1
Chloroform	ND	0.1
Dichlorobromomethane	ND	0.1
1,1-Dichloroethane	ND	0.1
1,2-Dichloroethane	ND	0.1
1,1-Dichloroethene	ND	0.1
1,2-Dichloropropane	ND	0.1
Ethylbenzene	ND	0.1
Methyl Bromide	ND	0.1
Methyl Chloride	ND	0.1
Methylene Chloride	ND	0.1

ND: Not Detected
NA: Not Analyzed
NQ: Not Quantified; detected below minimum detection limit
(): Tentative value only

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Report of GC/MS Analysis for VOLATILE ORGANICS in Water

Lab Number: G23734
Sample I.D.: NASA WELL (2/26)

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
VOLATILE PRIORITY POLLUTANTS (continued):		
1,1,2,2-Tetrachloroethane	ND	0.1
Tetrachloroethene	ND	0.1
Toluene	ND	0.1
1,1,1-Trichloroethane	ND	0.1
1,1,2-Trichloroethane	ND	0.1
Trichloroethene	ND	0.1
Vinyl Chloride	ND	0.1
trans-1,3-Dichloropropene	ND	0.1
cis-1,3-Dichloropropene	ND	0.1
trans-1,2-Dichloroethene	ND	0.1
Trichlorofluoromethane	ND	0.1
VOLATILE NON-PRIORITY POLLUTANTS:		
m,p-Xylenes	ND	0.1
o-Xylene	ND	0.1
cis-1,2-Dichloroethene	ND	0.1

ND: Not Detected
NA: Not Analyzed
NQ: Not Quantified; detected below minimum detection limit
(): Tentative value only

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Report of GC/MS Analysis for VOLATILE ORGANICS in Water

U.s. Navy-Moffett Field/JMM-WCK
501 Lennon Lane
Suite 200
Walnut Creek, CA 94598
Attn: Bob Cooley

Job#/PO#: 1621.0021
Workorder#: W06531
Report#: R25204
Phone #: 415-933-2250

Date Sampled: 2/26/86
Date Analyzed: 2/28/86
Date Received: 2/27/86

Lab Number: G23735
Sample I.D.: T.B.-2/7/86

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
VOLATILE PRIORITY POLLUTANTS:		
Acrolein	ND	1.0
Acrylonitrile	ND	1.0
Benzene	ND	0.1
Bromoform	ND	0.1
Carbon Tetrachloride	ND	0.1
Chlorobenzene	ND	0.1
Dibromochloromethane	ND	0.1
Chloroethane	ND	0.1
2-Chloroethylvinylether	ND	0.1
Chloroform	ND	0.1
Dichlorobromomethane	ND	0.1
1,1-Dichloroethane	ND	0.1
1,2-Dichloroethane	ND	0.1
1,1-Dichloroethene	ND	0.1
1,2-Dichloropropane	ND	0.1
Ethylbenzene	ND	0.1
Methyl Bromide	ND	0.1
Methyl Chloride	ND	0.1
Methylene Chloride	ND	0.1

ND: Not Detected
NA: Not Analyzed
NQ: Not Quantified; detected below minimum detection limit
(): Tentative value only

Approved by _____

MAR 5 1986

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Report of GC/MS Analysis for VOLATILE ORGANICS in Water

Lab Number: G23735
Sample I.D.: T.B.-2/7/86

Compound	Concentration (micrograms/liter)	Detection Limit (micrograms/liter)
VOLATILE PRIORITY POLLUTANTS (continued):		
1,1,2,2-Tetrachloroethane	ND	0.1
Tetrachloroethene	ND	0.1
Toluene	ND	0.1
1,1,1-Trichloroethane	ND	0.1
1,1,2-Trichloroethane	ND	0.1
Trichloroethene	ND	0.1
Vinyl Chloride	ND	0.1
trans-1,3-Dichloropropene	ND	0.1
cis-1,3-Dichloropropene	ND	0.1
trans-1,2-Dichloroethene	ND	0.1
Trichlorofluoromethane	ND	0.1
VOLATILE NON-PRIORITY POLLUTANTS:		
m,p-Xylenes	ND	0.1
o-Xylene	ND	0.1
cis-1,2-Dichloroethene	ND	0.1

ND: Not Detected
NA: Not Analyzed
NQ: Not Quantified; detected below minimum detection limit
(): Tentative value only

Laboratory Report for

Mr. Steve Sharp
Canonie Engineers, Inc.
P. O. Drawer 7281
Mountain view 94039

December 2, 1985

by

Canonie Engineers, Inc.
83 West March Lane, Suite 12
Stockton, California 95209
(209) 952-0353

83-148-01-491

CanonieEngineers

Table 1
Codes of Samples Received
From RI/FS Group
Project: 83-148-01

Sampler ID	Date Sampled	Date Received	Lab ID#	Sample Type	Container
Analysis: Purgeable Aromatics					
M-1	11-20-85	11-21-85	515047	Water	40 ml vial
			515048	Water	40 ml vial
			515049	Water	40 ml vial
M-2	11-20-85	11-21-85	515050	Water	40 ml vial
			515051	Water	40 ml vial
			515052	Water	40 ml vial
Analysis: Purgeable Halocarbons					
M-1	11-20-85	11-21-85	515047	Water	40 ml vial
			515048	Water	40 ml vial
			515049	Water	40 ml vial
M-2	11-20-85	11-21-85	515050	Water	40 ml vial
			515051	Water	40 ml vial
			515052	Water	40 ml vial

Table 2
Results of Purgeable Aromatics Analysis on Water
Samples Received From RI/FS Group
Results in mg/l

Sampler ID:	M-1	M-2
Lab ID#:	515047	515050
Analyte(s)		
Benzene	ND 0.01	ND 0.01
Chlorobenzene	ND 0.0005	ND 0.0005
1,2-Dichlorobenzene	ND 0.0005	ND 0.0005
1,3-Dichlorobenzene	ND 0.0005	ND 0.0005
1,4-Dichlorobenzene	ND 0.0005	ND 0.0005
Ethylbenzene	ND 0.01	ND 0.01
Toluene	ND 0.01	ND 0.01
Date Prepared	11-21-85	11-21-85
Date Analyzed	11-21-85	11-21-85

Note:
ND X denotes none detected to a level of X.
#ND X denotes none detected to a level of X due to an interfering peak.

Results of Purgeable Halocarbons Analysis on Water
Samples Received From RI/FS Group
Results in mg/l

Sampler ID:	M-1	M-2
Lab ID#:	515047	515050
Analyte(s)		
Bromodichloromethane	ND 0.0005	ND 0.0005
Bromoform	ND 0.0005	ND 0.0005
Bromomethane	ND 0.0005	ND 0.0005
Carbon tetrachloride	ND 0.0005	ND 0.0005
Chlorobenzene	ND 0.0005	ND 0.0005
Chloroethane	ND 0.0005	ND 0.0005
2-Chloroethylvinyl ether	ND 0.0005	ND 0.0005
Chloroform	ND 0.0005	ND 0.0005
Chloromethane	ND 0.0005	ND 0.0005
Dibromochloromethane	ND 0.0005	ND 0.0005
1,2-Dichlorobenzene	ND 0.0005	ND 0.0005
1,3-Dichlorobenzene	ND 0.0005	ND 0.0005
1,4-Dichlorobenzene	ND 0.0005	ND 0.0005
Dichlorodifluoromethane	ND 0.0005	ND 0.0005
1,1-Dichloroethane	ND 0.0005	ND 0.0005
1,2-Dichloroethane	ND 0.0005	ND 0.0005
1,1-Dichloroethene	ND 0.0005	ND 0.0005
trans-1,2-Dichloroethene	ND 0.0005	ND 0.0005
1,2-Dichloropropane	ND 0.0005	ND 0.0005
cis-1,3-Dichloropropene	ND 0.0005	ND 0.0005
trans-1,3-Dichloropropene	ND 0.0005	ND 0.0005
1,1,2,2-Tetrachloroethane	ND 0.0005	ND 0.0005
Tetrachloroethene	ND 0.0005	ND 0.0005
1,1,1-Trichloroethane	ND 0.0005	ND 0.0005
1,1,2-Trichloroethane	ND 0.0005	ND 0.0005
Trichloroethene	ND 0.0005	0.0035
Trichlorofluoromethane	ND 0.0005	ND 0.0005
Vinyl chloride	ND 0.0005	ND 0.0005
Methylene Chloride	ND 0.0005	ND 0.0005
Date Prepared	11-21-85	11-21-85
Date Analyzed	11-21-85	11-21-85

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