N00296.002166
MOFFETT FIELD
SSIC NO. 5090.3

5090
Ser 09ER5SD/5163
February 9, 1995

Ms. Susan Gladstone
California Regional Water Quality Control Board-San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, California 94612

Subject: Moffett Federal Airfield (MFA) Site 9 Source Control Measure Self-Monitoring Report for November 14, 1994 to November 27, 1994

Dear Ms. Gladstone:

The U.S. Navy is submitting this self-monitoring report for the three Site 9 source control measures at MFA. This self-monitoring report covers operations from November 14, 1994, to November 27, 1994. This report contains, in attachments, information on flow volumes, process stream pH and temperature, documentation of any leakage or overflow, system maintenance, discharge limit exceedences, and all sample analytical results.

The Building 6 and Building 12 treatment systems ran continuously during this reporting period. The Building 45 treatment system ran for 7 days but was not sampled due to transfer pump malfunctions. Discharge limits for organic constituents were met by both the Building 6 and Building 12 systems for these 2 weeks of operation. The Building 6 system samples exceeded the discharge limit for selenium and zinc in the dissolved metals analysis and zinc in the total metals analysis. The Building 12 system samples exceeded the discharge limits for total zinc. Details of all discharge limit exceedences are included as an attachment. All fish toxicity tests showed the treatment systems effluent to be nontoxic to the three spined stickleback.

The constituents that exceeded discharge limits during these 2 weeks of operation are both naturally occurring in MFA groundwater. These constituents are at levels consistent with those found in background data, historical extraction well data, basewide aquifer data, and receiving water data. These constituents will continue to be monitored to evaluate if any trends are apparent or if the fluctuating effluent concentrations are due to fluctuating natural levels.

I certify that the information contained in this document and all attachments are, to the best of my knowledge, accurate and complete. Please call me at (415) 244-2563 or Mark Kadnuck at (303) 295-1101 if you have any questions or comments.

Sincerely,

Original signed by:

STEPHEN CHAO
BRAC Installation Coordinator

Encl:
Self- Monitoring Report for November 14, 1994 to November 27, 1994

2166

Subj: Moffett Federal Airfield (MFA) Site 9 Source Control Measure Self-Monitoring Report For Monitoring Report Report for November 14, 1994 to November 27, 1994

Blind copy to:
09ER5, 09ER5ST, 09ER5DC
Mark Kadnuck (PRC)
Admin. record
Chron, blue, pink, green
File:SM112194.doc/7 Feb 95

N00296.002166
MOFFETT FIELD
SSIC NO. 5090.3

MOFFETT FEDERAL AIRFIELD SITE 9 SOURCE CONTROL MEASURES SELF-MONITORING REPORT FOR NOVEMBER 14, 1994 TO NOVEMBER 27, 1995

THE ABOVE IDENTIFIED REPORT IS INCOMPLETE. IT COULD NOT BE DETERMINED WHETHER PAGES ARE MISSING OR THE DOCUMENT WAS ISSUED WITHOUT THESE PAGES.

QUESTIONS MAY BE DIRECTED TO:

DIANE C. SILVA
RECORDS MANAGEMENT SPECIALIST
NAVAL FACILITIES ENGINEERING COMMAND SOUTHWEST
1220 PACIFIC HIGHWAY
SAN DIEGO, CA 92132

TELEPHONE: (619) 532-3676

MOFFETT FEDERAL AIRFIELD
SITE 9 SOURCE CONTROL MEASURES
SELF-MONITORING REPORT

Reporting Period: Nov. 14, 1994 - Nov. 27, 1994

System Data*	Bldg 45 System	Bldg 12 System	Bldg 6 System
Total Flow for Period (gal)	28400	33900	37225
Influent pH	not sampled	7.34	7.63
Effluent pH	not sampled	7.58	7.85
Influent Temperature (C)	not sampled	20.3	20.8
Effluent Temperature (C)	not sampled	16.5	16.7

* Analytical data is attached

Leakage or Overflow Documentation (include date, time, duration, location, and volume)
None

Treatment System Maintenance for Period
Building 45: Reinstalled transfer pump on 11-17-94. Started system and changed out dirty bag filter on 11-21-94.
Building 12: Changed out dirty bag filter on 11-21-94.
Building 6: None

MOFFETT FEDERAL AIRFIELD
SITE 9 SOURCE CONTROL MEASURES
SELF-MONITORING REPORT

Reporting Period: Nov. 14, 1994 - Nov. 27, 1994

TREATMENT SYSTEM
DISCHARGE LIMIT EXCEEDENCE SUMMARY

Sample ID	Analyte	Concentration (ug/L)	Discharge Limit (ug/L)
TS-S9-SP4-06	Zn (tot)	262	110
TS-S9-SP4-06	Se (diss)	5.8	5
TS-S9-SP4-06	Zn (diss)	222	110
TS-S9-SP4-12	Zn (tot)	277	110

SAMPLE ID DESCRIPTION

BUILDING 6:
TS-S9-SP1-06 -- System Influent
TS-S9-SP3-06 -- GAC Bed 1 Effluent
TS-S9-SP4-06 -- System Effluent

BUILDING 12:
TS-S9-SP1-12 -- System Influent
TS-S9-SP3-12 -- GAC Bed 1 Effluent
TS-S9-SP4-12 -- System Effluent

BUILDING 45:
TS-S9-SP1-45 -- W61-1 System Influent
TS-S9-SP2-45 -- FP9-1 System Influent
TS-S9-SP3-45 -- Air Stripper Effluent
TS-S9-SP5-45 -- GAC Bed 1 Effluent
TS-S9-SP6-45 -- System Effluent

NASA SETTLING BASIN:
RW-S9-NSB-01 -- Settling Basin Effluent

CERTIFICATION

I certify that the information contained in this document is, to the best of my knowledge, accurate and complete.

Mark A. Kadnuck

Mark A. Kadnuck, P.E.
Project Engineer

COLORADO REGISTERED PROFESSIONAL ENGINEER
MARK A. KADNUCK
29842

2-17-95

Week of 11/21/94

Inchcape Testing Services
Anametrix Laboratories

FAX TRANSMITTAL COVER SHEET

TO: DATE: 11-30-94

NAME: Jean Barranco

COMPANY: PRC

FAX #: 303-295-2818

TOTAL NUMBER OF PAGES (INCLUDING THIS COVER SHEET): 9

NOTE: Please confirm receipt of the fax and return this coversheet via fax:

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FROM:

NAME: Richard Jacobs

ITS - ANAMETRIX LABORATORIES
FAX : (408) 432 - 8198
PHONE : (408) 432 - 8192

If all pages are not received, please notify the sender at (408) 432 - 8192.

COMMENTS: CTO: 0235 SDG: 95P10
MOFFET SITE 9 — 5 DAY TAT
VOA (8010) — 01-06, -08

9411245

PRELIM RESULTS

1

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9SP10

I Name: Anametrix, Inc. Contract:

Lab Code: ANNEMT Case No.: 0235 SAS No.: SDG No.: 9SP10

Matrix: (soil/water) WATER Lab Sample ID: 9411245-01

Sample wt/vol: .100 (g/mL) ML Lab File ID: HRN24501

Level: (low/med) LOW Date Received: 11/21/94

% Moisture: not dec._____ Date Analyzed: 11/29/94

GC Column: RTX-502. ID: .53 (mm) Dilution Factor: 50.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	25.	U
74-87-3	Chloromethane	25.	U
75-01-4	Vinyl chloride	25.	U
74-83-9	Bromomethane	25.	U
75-00-3	Chloroethane	25.	U
75-69-4	Trichlorofluoromethane	25.	U
76-13-1	Trichlorotrifluoroethane	20.	J
75-35-4	1,1-Dichloroethene	27.	
75-09-2	Methylene chloride	25.	U
156-60-5	trans-1,2-Dichloroethene	25.	U
75-34-3	1,1-Dichloroethane	15.	J
156-59-2	cis-1,2-Dichloroethene	370.	
67-66-3	Chloroform	25.	U
71-55-6	1,1,1-Trichloroethane	25.	U
56-23-5	Carbon tetrachloride	25.	U
107-06-2	1,2-Dichloroethane	25.	U
79-01-6	Trichloroethene	1500.	
78-87-5	1,2-Dichloropropane	25.	U
75-27-4	Bromodichloromethane	25.	U
110-75-8	2-Chloroethylvinylether	25.	U
10061-01-5	cis-1,3-Dichloropropene	25.	U
10061-02-6	trans-1,3-Dichloropropene	25.	U
79-00-5	1,1,2-Trichloroethane	25.	U
127-18-4	Tetrachloroethene	120.	
124-48-1	Dibromochloromethane	25.	U
108-90-7	Chlorobenzene	25.	U
75-25-2	Bromoform	25.	U
79-34-5	1,1,2,2-Tetrachloroethane	25.	U
541-73-1	1,3-Dichlorobenzene	25.	U
106-46-7	1,4-Dichlorobenzene	25.	U
95-50-1	1,2-Dichlorobenzene	25.	U

2

PRELIM RESULTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9SP30

Name: Anametrix, Inc. Contract:

Lab Code: ANNEMT Case No.: 0235 SAS No.: SDG No.: 9SP10

Matrix: (soil/water) WATER Lab Sample ID: 9411245-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: HPN24502

Level: (low/med) LOW Date Received: 11/21/94

% Moisture: not dec._____ Date Analyzed: 11/28/94

GC Column: RTX-502. ID: .53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	.5	U
74-87-3	Chloromethane	.5	U
75-01-4	Vinyl chloride	.5	U
74-83-9	Bromomethane	.5	U
75-00-3	Chloroethane	.5	U
75-69-4	Trichlorofluoromethane	.5	U
76-13-1	Trichlorotrifluoroethane	.5	U
75-35-4	1,1-Dichloroethene	.5	U
75-09-2	Methylene chloride	.5	U
156-60-5	trans-1,2-Dichloroethene	.5	U
75-34-3	1,1-Dichloroethane	.5	U
156-59-2	cis-1,2-Dichloroethene	.5	U
67-66-3	Chloroform	.5	U
71-55-6	1,1,1-Trichloroethane	.5	U
56-23-5	Carbon tetrachloride	.5	U
107-06-2	1,2-Dichloroethane	.5	U
79-01-6	Trichloroethene	.5	U
78-87-5	1,2-Dichloropropane	.5	U
75-27-4	Bromodichloromethane	.5	U
110-75-8	2-Chloroethylvinylether	.5	U
10061-01-5	cis-1,3-Dichloropropene	.5	U
10061-02-6	trans-1,3-Dichloropropene	.5	U
79-00-5	1,1,2-Trichloroethane	.5	U
127-18-4	Tetrachloroethene	.5	U
124-48-1	Dibromochloromethane	.5	U
108-90-7	Chlorobenzene	.5	U
75-25-2	Bromoform	.5	U
79-34-5	1,1,2,2-Tetrachloroethane	.5	U
541-73-1	1,3-Dichlorobenzene	.5	U
106-46-7	1,4-Dichlorobenzene	.5	U
95-50-1	1,2-Dichlorobenzene	.5	U

PRELIM RESULTS

3

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9SP40

Lab Name: Anametrix, Inc. Contract:

Lab Code: ANNEMT Case No.: 0235 SAS No.: SDG No.: 9SP10

Matrix: (soil/water) WATER Lab Sample ID: 9411245-03

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: HPN24503

Level: (low/med) LOW Date Received: 11/21/94

% Moisture: not dec._____ Date Analyzed: 11/28/94

GC Column: RTX-502. ID: .53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	.5	U
74-87-3	Chloromethane	.5	U
75-01-4	Vinyl chloride	.5	U
74-83-9	Bromomethane	.5	U
75-00-3	Chloroethane	.5	U
75-69-4	Trichlorofluoromethane	.5	U
76-13-1	Trichlorotrifluoroethane	.5	U
75-35-4	1,1-Dichloroethene	.5	U
75-09-2	Methylene chloride	.5	U
156-60-5	trans-1,2-Dichloroethene	.5	U
75-34-3	1,1-Dichloroethane	.5	U
156-59-2	cis-1,2-Dichloroethene	.5	U
67-66-3	Chloroform	.5	U
71-55-6	1,1,1-Trichloroethane	.5	U
56-23-5	Carbon tetrachloride	.5	U
107-06-2	1,2-Dichloroethane	.5	U
79-01-6	Trichloroethene	.5	U
78-87-5	1,2-Dichloropropane	.5	U
75-27-4	Bromodichloromethane	.5	U
110-75-8	2-Chloroethylvinylether	.5	U
10061-01-5	cis-1,3-Dichloropropene	.5	U
10061-02-6	trans-1,3-Dichloropropene	.5	U
79-00-5	1,1,2-Trichloroethane	.5	U
127-18-4	Tetrachloroethene	.5	U
124-48-1	Dibromochloromethane	.5	U
108-90-7	Chlorobenzene	.5	U
75-25-2	Bromoform	.5	U
79-34-5	1,1,2,2-Tetrachloroethane	.5	U
541-73-1	1,3-Dichlorobenzene	.5	U
106-46-7	1,4-Dichlorobenzene	.5	U
95-50-1	1,2-Dichlorobenzene	.5	U

4

PRELIM RESULTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9SP11

Lab Name: Anametrix, Inc. Contract:

Lab Code: ANNEMT Case No.: 0235 SAS No.: SDG No.: 9SP10

Matrix: (soil/water) WATER Lab Sample ID: 9411245-04

Sample wt/vol: .500 (g/mL) ML Lab File ID: HPN24504

Level: (low/med) LOW Date Received: 11/21/94

% Moisture: not dec._____ Date Analyzed: 11/28/94

GC Column: RTX-502. ID: .53 (mm) Dilution Factor: 10.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.	U
74-87-3	Chloromethane	5.	U
75-01-4	Vinyl chloride	48.	
74-83-9	Bromomethane	5.	U
75-00-3	Chloroethane	5.	U
75-69-4	Trichlorofluoromethane	5.	U
76-13-1	Trichlorotrifluoroethane	5.	U
75-35-4	1,1-Dichloroethene	6.	
75-09-2	Methylene chloride	4.	J
156-60-5	trans-1,2-Dichloroethene	28.	
75-34-3	1,1-Dichloroethane	22.	
156-59-2	cis-1,2-Dichloroethene	240.	
67-66-3	Chloroform	5.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon tetrachloride	5.	U
107-06-2	1,2-Dichloroethane	5.	U
79-01-6	Trichloroethene	5.	U
78-87-5	1,2-Dichloropropane	5.	U
75-27-4	Bromodichloromethane	5.	U
110-75-8	2-Chloroethylvinylether	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
127-18-4	Tetrachloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
108-90-7	Chlorobenzene	5.	U
75-25-2	Bromoform	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
541-73-1	1,3-Dichlorobenzene	5.	U
106-46-7	1,4-Dichlorobenzene	5.	U
95-50-1	1,2-Dichlorobenzene	5.	U

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PRELIM RESULTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9SP31

Lab Name: Anametrix, Inc. Contract:

Lab Code: ANNEMT Case No.: 0235 SAS No.: SDG No.: 9SP10

Matrix: (soil/water) WATER Lab Sample ID: 9411245-05

Sample wt/vol: .500 (g/mL) ML Lab File ID: HPN24505

Level: (low/med) LOW Date Received: 11/21/94

% Moisture: not dec._____ Date Analyzed: 11/28/94

GC Column: RTX-502. ID: .53 (mm) Dilution Factor: 10.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.	U
74-87-3	Chloromethane	5.	U
75-01-4	Vinyl chloride	26.	
74-83-9	Bromomethane	5.	U
75-00-3	Chloroethane	5.	U
75-69-4	Trichlorofluoromethane	5.	U
76-13-1	Trichlorotrifluoroethane	5.	U
75-35-4	1,1-Dichloroethene	3.	J
75-09-2	Methylene chloride	3.	J
156-60-5	trans-1,2-Dichloroethene	17.	
75-34-3	1,1-Dichloroethane	15.	
156-59-2	cis-1,2-Dichloroethene	180.	
67-66-3	Chloroform	5.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon tetrachloride	5.	U
107-06-2	1,2-Dichloroethane	5.	U
79-01-6	Trichloroethene	3.	J
78-87-5	1,2-Dichloropropane	5.	U
75-27-4	Bromodichloromethane	5.	U
110-75-8	2-Chloroethylvinylether	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
127-18-4	Tetrachloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
108-90-7	Chlorobenzene	5.	U
75-25-2	Bromoform	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
541-73-1	1,3-Dichlorobenzene	5.	U
106-46-7	1,4-Dichlorobenzene	5.	U
95-50-1	1,2-Dichlorobenzene	5.	U

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PRELIM RESULTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

9SP41

Lab Name: Anametrix, Inc. Contract:

Lab Code: ANNEMT Case No.: 0235 SAS No.: SDG No.: 9SP10

Matrix: (soil/water) WATER Lab Sample ID: 9411245-06

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: HPN24506

Level: (low/med) LOW Date Received: 11/21/94

% Moisture: not dec._____ Date Analyzed: 11/28/94

GC Column: RTX-502. ID: .53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	.5	U
74-87-3	Chloromethane	.5	U
75-01-4	Vinyl chloride	.5	U
74-83-9	Bromomethane	.5	U
75-00-3	Chloroethane	.5	U
75-69-4	Trichlorofluoromethane	.5	U
76-13-1	Trichlorotrifluoroethane	.5	U
75-35-4	1,1-Dichloroethene	.5	U
75-09-2	Methylene chloride	.5	U
156-60-5	trans-1,2-Dichloroethene	.5	U
75-34-3	1,1-Dichloroethane	.5	U
156-59-2	cis-1,2-Dichloroethene	.2	J
67-66-3	Chloroform	.5	U
71-55-6	1,1,1-Trichloroethane	.5	U
56-23-5	Carbon tetrachloride	.5	U
107-06-2	1,2-Dichloroethane	.5	U
79-01-6	Trichloroethene	.5	U
78-87-5	1,2-Dichloropropane	.5	U
75-27-4	Bromodichloromethane	.5	U
110-75-8	2-Chloroethylvinylether	.5	U
10061-01-5	cis-1,3-Dichloropropene	.5	U
10061-02-6	trans-1,3-Dichloropropene	.5	U
79-00-5	1,1,2-Trichloroethane	.5	U
127-18-4	Tetrachloroethene	.5	U
124-48-1	Dibromochloromethane	.5	U
108-90-7	Chlorobenzene	.5	U
75-25-2	Bromoform	.5	U
79-34-5	1,1,2,2-Tetrachloroethane	.5	U
541-73-1	1,3-Dichlorobenzene	.5	U
106-46-7	1,4-Dichlorobenzene	.5	U
95-50-1	1,2-Dichlorobenzene	.5	U

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PRELIM RESULTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-01

Lab Name: Anametrix, Inc. Contract:

Lab Code: ANNEMT Case No.: 0235 SAS No.: SDG No.: 9SP10

Matrix: (soil/water) WATER Lab Sample ID: 9411245-08

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: HPN24508

Level: (low/med) LOW Date Received: 11/22/94

% Moisture: not dec._____ Date Analyzed: 11/29/94

GC Column: RTX-502. ID: .53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	.5	U
74-87-3	Chloromethane	.5	U
75-01-4	Vinyl chloride	.5	U
74-83-9	Bromomethane	.5	U
75-00-3	Chloroethane	.5	U
75-69-4	Trichlorofluoromethane	.5	U
76-13-1	Trichlorotrifluoroethane	.5	U
75-35-4	1,1-Dichloroethene	.5	U
75-09-2	Methylene chloride	.5	U
156-60-5	trans-1,2-Dichloroethene	.5	U
75-34-3	1,1-Dichloroethane	.5	U
156-59-2	cis-1,2-Dichloroethene	.5	U
67-66-3	Chloroform	.5	U
71-55-6	1,1,1-Trichloroethane	.5	U
56-23-5	Carbon tetrachloride	.5	U
107-06-2	1,2-Dichloroethane	.5	U
79-01-6	Trichloroethene	.5	U
78-87-5	1,2-Dichloropropane	.5	U
75-27-4	Bromodichloromethane	.5	U
110-75-8	2-Chloroethylvinylether	.5	U
10061-01-5	cis-1,3-Dichloropropene	.5	U
10061-02-6	trans-1,3-Dichloropropene	.5	U
79-00-5	1,1,2-Trichloroethane	.5	U
127-18-4	Tetrachloroethene	.5	U
124-48-1	Dibromochloromethane	.5	U
108-90-7	Chlorobenzene	.5	U
75-25-2	Bromoform	.5	U
79-34-5	1,1,2,2-Tetrachloroethane	.5	U
541-73-1	1,3-Dichlorobenzene	.5	U
106-46-7	1,4-Dichlorobenzene	.5	U
95-50-1	1,2-Dichlorobenzene	.5	U

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PRELIM RESULTS

24542 11240 (16) 11X (10/30)

ENVIRONMENTAL MANAGEMENT INC.

DATE: 11/22/94

CHAIN-OF-CUSTODY RECORD

DESTINATION: ANALYTICAL LAB

PROJECT NAME: NAFFETT SITE 9 SCM

PROJECT JOB #: 044-0235/RSC90

SAMPLER(S) PRINTED NAME AND SIGNATURE: ERIC DeRUYTER Eric DeRuyter

SAMPLING TEAM #:

ANALYSES REQUIRED

SAMPLE I.D.	DATE OF COLLECTION	TIME OF COLLECTION	SAMPLE MEDIUM (MATRIX)	MS/MSD	QC	SAMPLE LOCATION	NUMBER/SIZE OF CONTAINERS	VOC 8010	TPH gas BTEX	TPH diesel	Total Metals	Diss Metals						REMARKS
								FIELD SAMPLE PRESERVATION										
TB-59-SP1-06	11/21/94	1330	WATER	X		BUILDING 6 SP1	6x40ml, 2x1-liter Amber, 2x1-liter Poly	P	P	U	P	B						5 DAY TAT
TB-59-SP3-06	11/21/94	1415	WATER	X		BUILDING 6 SP3	6x40ml, 2x1-liter Amber	P	P	U								
TB-59-SP4-06	11/21/94	1500	WATER	X		BUILDING 6 SP4	6x40ml, 2x1-liter Amber, 2x1-liter Poly	P	P	U	P	B						
TB-59-SP1-12	11/21/94	1545	WATER	X		BUILDING 12 SP1	6x40ml, 2x1-liter Amber, 2x1-liter Poly	P	P	U	P	B						
TB-59-SP3-12	11/21/94	1610	WATER	X		BUILDING 12 SP3	6x40ml, 2x1-liter Amber	P	P	U								
TB-59-SP4-12	11/21/94	1630	WATER	X		BUILDING 12 SP4	6x40ml, 2x1-liter Amber, 2x1-liter Poly	P	P	U	P	B						
RWC-SA-NSB-01	11/22/94	0830	WATER	X		NASA SETTLING BASIN EFFLUENT	1x1-liter Poly				P							
TB-01	11/21/94	0800	WATER	X		TRIP BLANK	2x40 ml	P										

PRELIM RESULTS

RELINQUISHED BY: SIGNATURE	NAME (print)	COMPANY/TITLE	DATE	TIME
Eric DeRuyter	ERIC DeRUYTER	PRC EMI/CIVIL ENGINEER	11/22/94	1600
RECEIVED BY: Jean Berrouar	Jean Berrouar	PRC/Chemist	11-22-94	1605
RELINQUISHED BY: Jean Berrouar	Jean Berrouar	PRC/Chemist	[illegible]	[illegible]
RECEIVED BY: [illegible]	[illegible]	[illegible] TESTING [illegible]	[illegible]	[illegible]

Use Legend only one of the following four codes for each analysis required. A for each sample listed. This codes should be entered under the column LEGEND ANALYSES REQUIRED.

U = UNPRESERVED AND UNFILTERED SAMPLE; P = PRESERVED SAMPLE; F = FILTERED SAMPLE; B = BOTH PRESERVED & FILTERED

TOTAL P.09

Inchcape Testing Services
Anametrix Laboratories

FAX TRANSMITTAL COVER SHEET

TO: DATE: 11-30-94

NAME: Jean Barranco

COMPANY: PRC

FAX #: (303) 295-2818

TOTAL NUMBER OF PAGES (INCLUDING THIS COVER SHEET): 2

NOTE: Please confirm receipt of the fax and return this coversheet via fax:

RECEIVED BY: _____ DATE: _____

FROM:

NAME: Tracey Pham

ITS - ANAMETRIX LABORATORIES
FAX : (408) 432 - 8198
PHONE : (408) 432 - 8192

If all pages are not received, please notify the sender at (408) 432 - 8192.

COMMENTS: CTO : 0235 SDG : 9SP10
Moffet Site 9 - 5 days TAT
TPHd : 01 → 06

9411245

PRELIM RESULTS

ITS-ANAMETRIX LABORATORIES
1961 Concourse Drive, San Jose, CA 95131, (408) 432-8192 FX (408) 432-8198

TOTAL FUEL HYDROCARBON REPORT

TPH as Diesel / Motor Oil

Workorder # 9411245 Client PRC

Date Extracted 11/23/94 Project # 0235

Matrix WATER / SOIL Instrument ID # HP9 / HP19 / HP23

ANAMETRIX ID #	CLIENT ID #	DATE ANALYZED	REPORTING LIMIT	AMOUNT FOUND ppb / ppm Diesel	Mo	Kero	JP-4	% SURROGATE RECOVERY
-1	9SP10	11/23/94	100	ND	100	ND	ND	76%
-2	9SP30	"	100	ND	77	ND	ND	78%
-3	9SP40	"	100	ND	ND	ND	ND	78%
-4	9SP11	11/29/94	~~100~~ 500	ND	ND	ND	3500	63%
-5	9SP31	11/24/94	500	ND	ND	ND	2500	70%
-6	9SP41	"	100	ND	ND	ND	ND	75%
BN2311F9	Method Blank	11/23/94	100	ND	ND	ND	ND	73%

Date: 11/30/94 Date:

Analyst: ARP. Reviewer:

METHODS PERFORMED ARE THOSE SPECIFIED BY TRIREGIONAL GUIDELINES.

PRELIM RESULTS

Inchcape Testing Services
Anametrix Laboratories

1961 Concourse Drive
Suite E
San Jose, CA 95131
Tel: 408-432-8192
Fax: 408-432-8198

FACSIMILE TRANSMITTAL COVER SHEET

TO: DATE: 12/2/94

Name: Jean Barranco

Company: PRC - Denver

Fax #: (303) 295 - 2818

FROM:

Name: SU PATEL
Phone: (408) 432-8192
DOD Fax: (408) 383-7810

Total Number of Pages (INCLUDING COVER): 2

If all pages are not received, please notify the sender.

NOTE: Please confirm receipt of the fax and return this coversheet via fax:

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COMMENTS: The TO2 list for VOCs & unfortunately they ~~do~~ cannot do TPH purgeables...

Thx
Su..

CONFIDENTIALITY NOTICE: The information contained in this facsimile transmittal is privileged and confidential. It is intended only for the use of the addressee. If the reader of this message is not the intended recipient, or person responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this facsimile transmittal is strictly prohibited. If you have received this transmittal in error, please notify us immediately by telephone and please return the original transmittal to Inchcape Testing Services - Anametrix Laboratories via U.S. Postal Service. Thank you.

Inchcape Testing Services
Anametrix Laboratories

FAX TRANSMITTAL COVER SHEET

TO: DATE: 12/01/94

NAME: Jean Barranco

COMPANY: PRC

FAX #: (303) 295-2818

TOTAL NUMBER OF PAGES (INCLUDING THIS COVER SHEET): 11

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FROM:

NAME: Tracey Pham

ITS - ANAMETRIX LABORATORIES
FAX : (408) 432 - 8198
PHONE : (408) 432 - 8192

If all pages are not received, please notify the sender at (408) 432 - 8192.

COMMENTS: CTO : 0235 SDG : 95P10
Moffet Site 9 - 5 days TAT
Metals : -01, -03, -04, -06 (Totals + Dissolved
and -07 (Totals only)

PRELIM RESULTS

#41542 9411245 (16) (18) (10/30)

PRC ENVIRONMENTAL MANAGEMENT INC.

DATE: 11/22/94

CHAIN-OF-CUSTODY RECORD

DESTINATION: ANAMETRIX

PROJECT NAME: MOFFETT SITE 9 SCM

PROJECT JOB #: OH4-0235 RSC90

SAMPLERS: PRINTED NAME AND SIGNATURE: ERIC DeRUYTER Eric DeRuyter

SAMPLING TEAM #:

SAMPLE I.D.	DATE OF COLLECTION	TIME OF COLLECTION	SAMPLE MEDIUM (MATRIX)	GRAB	COMP	SAMPLE LOCATION	NUMBER/SIZE OF CONTAINERS	VOX 8010	TPH 8015	TPH 418.1	Total Metals	Diss Metals							REMARKS
								ANALYSES REQUIRED											
								FIELD SAMPLE PREPARATION											
TB-59-SP1-06	11/21/94	1330	WATER	X		BUILDING 6 SP1	6x40ml, 2x1-liter Amber, 2x1-liter Poly	P	P	U	P	B							5 DAY TAT
TB-59-SP3-06	11/21/94	1415	WATER	X		BUILDING 6 SP3	6x40ml, 2x1-liter Amber	P	P	U									
TB-59-SP4-06	11/21/94	1500	WATER	X		BUILDING 6 SP4	6x40ml, 2x1-liter Amber, 2x1-liter Poly	P	P	U	P	B							
TB-59-SP1-12	11/21/94	1545	WATER	X		BUILDING 12 SP1	6x40ml, 2x1-liter Amber, 2x1-liter Poly	P	P	U	P	B							
TB-59-SP3-12	11/21/94	1610	WATER	X		BUILDING 12 SP3	6x40ml, 2x1-liter Amber	P	P	U									
TB-59-SP4-12	11/21/94	1630	WATER	X		BUILDING 12 SP4	6x40ml, 2x1-liter Amber, 2x1-liter Poly	P	P	U	P	B							
RW-59-NSB-01	11/22/94	0830	WATER	X		NASA SETTLING BASIN EFFLUENT	1x1-liter Poly				P								
TB-01	11/21/94	0800	WATER	X		TRIP BLANK	2x40 ml	P											

PRELIMINARY RESULTS

	SIGNATURE	NAME (print)	COMPANY/TITLE	DATE	TIME
RELINQUISHED BY:	Eric DeRuyter	ERIC DeRUYTER	PRC EMI/CIVIL ENGINEER	11/22/94	1600
RECEIVED BY:	Jean Barranco	Jean Barranco	PRC/Chemist	11-22-94	1605
RELINQUISHED BY:	Jean Barranco	Jean Barranco	PRC/Chemist	11-22-94	[illegible]
RECEIVED BY:	Bruce S. Gonzales	BRUCE S. GONZALES	ANCHOR TESTING ANAMETRIX	[illegible]	[illegible]
RELINQUISHED BY:					
RECEIVED BY:					

REMARKS:

INSTRUCTIONS: Enter only one of the following letter codes for each analysis required & for each sample listed. The codes should be entered under the columns labeled ANALYSES REQUIRED.
U = UNPRESERVED AND UNFILTERED SAMPLE; P = PRESERVED SAMPLE; F = FILTERED SAMPLE; B = BOTH PRESERVED & FILTERED SAMPLE

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

9NSB0T

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: 9SP10

Matrix (soil/water): WATER Lab Sample ID: 11245-07T

Level (low/med): LOW Date Received: 11/22/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	110			P
7440-36-0	Antimony	1.1	U		P
7440-38-2	Arsenic	1.7	U		P
7440-39-3	Barium	56.4	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.31	B		P
7440-70-2	Calcium	122000			P
7440-47-3	Chromium	0.80	U		P
7440-48-4	Cobalt	0.70	U		P
7440-50-8	Copper	10.6	B		P
7439-89-6	Iron	176			P
7439-92-1	Lead	4.5			P
7439-95-4	Magnesium	47400			P
7439-96-5	Manganese	42.5			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	6.6			P
7440-02-0	Nickel	2.9	B		P
7440-09-7	Potassium	2900	B	E	P
7782-49-2	Selenium	6.4			P
7440-22-4	Silver	2.3	B		P
7440-23-5	Sodium	55300			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	2.9	B		P
7440-66-6	Zinc	54.9		E	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

PRELIM RESULTS

FORM I - IN (ILM02.1)

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

9SP10D

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: 9SP10

Matrix (soil/water): WATER Lab Sample ID: 11245-01D

Level (low/med): LOW Date Received: 11/21/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	33.5	B		P
7440-36-0	Antimony	1.8	B		P
7440-38-2	Arsenic	2.2	B		P
7440-39-3	Barium	27.8	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.22	B		P
7440-70-2	Calcium	201000			P
7440-47-3	Chromium	0.80	U		P
7440-48-4	Cobalt	0.70	U		P
7440-50-8	Copper	4.4	B		P
7439-89-6	Iron	14.7	B		P
7439-92-1	Lead	1.5	B		P
7439-95-4	Magnesium	67000			P
7439-96-5	Manganese	32.6			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	1.7	B		P
7440-02-0	Nickel	1.9	B		P
7440-09-7	Potassium	1400	B	E	P
7782-49-2	Selenium	7.6			P
7440-22-4	Silver	2.0	B		P
7440-23-5	Sodium	38800			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	2.4	B		P
7440-66-6	Zinc	44.5		E	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

PRELIM RESULTS

FORM I - IN (ILM02.1)

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

9SP10T

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: 9SP10

Matrix (soil/water): WATER Lab Sample ID: 11245-01T

Level (low/med): LOW Date Received: 11/21/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	68.5			P
7440-36-0	Antimony	1.7	B		P
7440-38-2	Arsenic	1.7	U		P
7440-39-3	Barium	24.4	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium	206000			P
7440-47-3	Chromium	0.80	U		P
7440-48-4	Cobalt	0.70	U		P
7440-50-8	Copper	30.4			P
7439-89-6	Iron	66.1	B		P
7439-92-1	Lead	5.6			P
7439-95-4	Magnesium	69000			P
7439-96-5	Manganese	29.1			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	2.2	B		P
7440-02-0	Nickel	2.3	B		P
7440-09-7	Potassium	1410	B	E	P
7782-49-2	Selenium	6.2			P
7440-22-4	Silver	1.9	B		P
7440-23-5	Sodium	38700			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	2.1	B		P
7440-66-6	Zinc	107		E	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

PRELIM RESULTS

FORM I - IN (ILM02.1)

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

9SP11D

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: 9SP10

Matrix (soil/water): WATER Lab Sample ID: 11245-04D

Level (low/med): LOW Date Received: 11/21/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	33.1	B		P
7440-36-0	Antimony	1.1	U		P
7440-38-2	Arsenic	13.6			P
7440-39-3	Barium	467			P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium	180000			P
7440-47-3	Chromium	0.85	B		P
7440-48-4	Cobalt	0.70	U		P
7440-50-8	Copper	2.9	B		P
7439-89-6	Iron	3100			P
7439-92-1	Lead	0.67	B		P
7439-95-4	Magnesium	75200			P
7439-96-5	Manganese	648			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	1.0	B		P
7440-02-0	Nickel	2.6	B		P
7440-09-7	Potassium	2290	B	E	P
7782-49-2	Selenium	2.3	U		P
7440-22-4	Silver	2.7	B		P
7440-23-5	Sodium	51000			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	0.90	U		P
7440-66-6	Zinc	39.7		E	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

PRELIM RESULTS

FORM I - IN (

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

9SP11T

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: 9SP10

Matrix (soil/water): WATER Lab Sample ID: 11245-04T

Level (low/med): LOW Date Received: 11/21/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	29.3	B		P
7440-36-0	Antimony	1.1	U		P
7440-38-2	Arsenic	12.1			P
7440-39-3	Barium	460			P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium	177000			P
7440-47-3	Chromium	0.80	U		P
7440-48-4	Cobalt	0.70	U		P
7440-50-8	Copper	3.7	B		P
7439-89-6	Iron	3030			P
7439-92-1	Lead	1.2	B		P
7439-95-4	Magnesium	74000			P
7439-96-5	Manganese	636			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	0.70	U		P
7440-02-0	Nickel	2.0	B		P
7440-09-7	Potassium	2320	B	E	P
7782-49-2	Selenium	2.3	U		P
7440-22-4	Silver	0.54	B		P
7440-23-5	Sodium	52600			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	0.90	U		P
7440-66-6	Zinc	104		E	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

PRELIM RESULTS

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

9SP40D

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: 9SP10

Matrix (soil/water): WATER Lab Sample ID: 11245-03D

Level (low/med): LOW Date Received: 11/21/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	45.2	B		P
7440-36-0	Antimony	1.1	U		P
7440-38-2	Arsenic	1.9	B		P
7440-39-3	Barium	31.0	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium	208000			P
7440-47-3	Chromium	0.80	U		P
7440-48-4	Cobalt	1.3	B		P
7440-50-8	Copper	3.0	B		P
7439-89-6	Iron	162			P
7439-92-1	Lead	0.60	U		P
7439-95-4	Magnesium	69700			P
7439-96-5	Manganese	29.4			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	1.9	B		P
7440-02-0	Nickel	12.2	B		P
7440-09-7	Potassium	1400	B	E	P
7782-49-2	Selenium	5.8			P
7440-22-4	Silver	2.2	B		P
7440-23-5	Sodium	38800			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	0.90	U		P
7440-66-6	Zinc	222		E	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

PRELIM RESULTS

FORM I - IN (ILM02.1)

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

9SP40T

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: 9SP10

Matrix (soil/water): WATER Lab Sample ID: 11245-03T

Level (low/med): LOW Date Received: 11/21/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	41.6	B		P
7440-36-0	Antimony	1.1	U		P
7440-38-2	Arsenic	1.8	B		P
7440-39-3	Barium	31.7	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.29	B		P
7440-70-2	Calcium	206000			P
7440-47-3	Chromium	0.80	U		P
7440-48-4	Cobalt	1.4	B		P
7440-50-8	Copper	9.5	B		P
7439-89-6	Iron	289			P
7439-92-1	Lead	0.81	B		P
7439-95-4	Magnesium	68900			P
7439-96-5	Manganese	30.8			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	2.2	B		P
7440-02-0	Nickel	11.9	B		P
7440-09-7	Potassium	1440	B	E	P
7782-49-2	Selenium	4.5	B		P
7440-22-4	Silver	1.8	B		P
7440-23-5	Sodium	38400			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	0.90	U		P
7440-66-6	Zinc	262		E	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN (ILM02.1)

PRELIM RESULTS

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

9SP41D

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: 9SP10

Matrix (soil/water): WATER Lab Sample ID: 11245-06D

Level (low/med): LOW Date Received: 11/21/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	25.4	B		P
7440-36-0	Antimony	1.1	U		P
7440-38-2	Arsenic	4.1	B		P
7440-39-3	Barium	432			P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium	171000			P
7440-47-3	Chromium	0.80	U		P
7440-48-4	Cobalt	1.7	B		P
7440-50-8	Copper	2.2	B		P
7439-89-6	Iron	99.9	B		P
7439-92-1	Lead	0.66	B		P
7439-95-4	Magnesium	73000			P
7439-96-5	Manganese	557			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	1.3	B		P
7440-02-0	Nickel	12.2	B		P
7440-09-7	Potassium	2210	B	E	P
7782-49-2	Selenium	2.3	U		P
7440-22-4	Silver	2.1	B		P
7440-23-5	Sodium	51700			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	1.3	B		P
7440-66-6	Zinc	88.3		E	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN (ILM02.1)

PRELIM RESULTS

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

9SP41T

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: 9SP10

Matrix (soil/water): WATER Lab Sample ID: 11245-06T

Level (low/med): LOW Date Received: 11/21/94

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	25.8	B		P
7440-36-0	Antimony	1.1	U		P
7440-38-2	Arsenic	4.5	B		P
7440-39-3	Barium	436			P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.20	U		P
7440-70-2	Calcium	172000			P
7440-47-3	Chromium	0.80	U		P
7440-48-4	Cobalt	1.8	B		P
7440-50-8	Copper	3.9	B		P
7439-89-6	Iron	111			P
7439-92-1	Lead	1.5	B		P
7439-95-4	Magnesium	73300			P
7439-96-5	Manganese	561			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	1.2	B		P
7440-02-0	Nickel	11.8	B		P
7440-09-7	Potassium	2190	B	E	P
7782-49-2	Selenium	2.3	U		P
7440-22-4	Silver	2.1	B		P
7440-23-5	Sodium	53100			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	0.98	B		P
7440-66-6	Zinc	277		E	P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN (ILM02.1)

PRELIM RESULTS

Inchcape Testing Services
Anametrix Laboratories

FAX TRANSMITTAL COVER SHEET

TO: **DATE:** 12-12-94

NAME: Jean Barranco

COMPANY: PRC

FAX #: (303) 295-2818

TOTAL NUMBER OF PAGES (INCLUDING THIS COVER SHEET): 4

NOTE: Please confirm receipt of the fax and return this coversheet via fax:

RECEIVED BY: _____ **DATE:** _____

FROM:

NAME: Richard Jacobs

ITS - ANAMETRIX LABORATORIES
FAX : (408) 385-7810
PHONE : (408) 432 - 8192

If all pages are not received, please notify the sender at (408) 432 - 8192.

COMMENTS: CTO: 0235 SDG: 9SP10
Moffet Site 9 - 5 DAY TAT
Gas/BTEX : 01, 02, 03, 04, 05, 06

PRELIM RESULTS

ANAMETRIX, INC.
1961 Concourse Drive, San Jose, CA 95131, (408) 432-8192

TOTAL FUEL HYDROCARBON REPORT

TPHg with BTEX

Workorder # 9411245 Client Project # 0235

ANAMETRIX ID #	01	02	03	04	05
CLIENT ID #	9SP10	9SP30	9SP40	9SP11	9SP31
CONCENTRATION UNITS	µg/L	→	→	→	→
BENZENE	<1.0	<0.5	<0.5	510	450
TOLUENE	↓	↓	↓	330	260
ETHYLBENZENE	↓	2.2	↓	720	520
XYLENES	↓	11	↓	740	740
GASOLINE	810 (Z)	<50	<50	13000	8700
% SURROGATE RECOVERY	120%	106%	120%	84%	95%
INSTRUMENT #	HP8	→	→	→	→
DATE ANALYZED	11/29/94	→ 11/28/94	11/28/94	11/29/94	11/29/94
RLMF *	2	1	1	50	50

Date: 12/12/94 Date: _____

Analyst: IS Reviewer: _____

METHODS DONE ARE THOSE SPECIFIED BY CRWQCB.
Anametrix, Inc. QC Department Form 2-1

* RLMF - Reporting Limit Multiplication Factor

/1330(/2913)

PRELIM RESULTS

V

ANAMETRIX, INC.
1961 Concourse Drive, San Jose, CA 95131, (408) 432-8192

TOTAL FUEL HYDROCARBON REPORT

TPHg with BTEX

Workorder # 9411245 Client Project # 0235

ANAMETRIX ID #	06	07	08		
CLIENT ID #	9SP41				
CONCENTRATION UNITS	µg/L	→	→		
BENZENE	<0.5				
TOLUENE	↓				
ETHYLBENZENE	↓				
XYLENES	↓				
GASOLINE	<50				
% SURROGATE RECOVERY	122%				
INSTRUMENT #	HP8				
DATE ANALYZED	11/29/94				
RLMF *	1				

Date: 12/12/94 Date: _____

Analyst: IJ Reviewer: _____

METHODS DONE ARE THOSE SPECIFIED BY CRWQCB.
Anametrix, Inc. SC Department Form 2-1

* RLMF - Reporting Limit Multiplication Factor

PRELIM RESULTS

1330(/2913)

#4542

9411245 (16) (18) (10/30)

PRC ENVIRONMENTAL MANAGEMENT INC.

DATE: 11/22/94

CHAIN-OF-CUSTODY RECORD

DESTINATION: ANAMETRIX

PROJECT NAME: MOFFETT SITE 9 SCM

PROJECT JOB #: 044-0235/RSC9C

SAMPLERS: PRINTED NAME AND SIGNATURE: ERIC DERUYTER Eric DeRuyter

SAMPLING TEAM #:

SAMPLE I.D.	DATE OF COLLECTION	TIME OF COLLECTION	SAMPLE MEDIUM (MATRIX)	GRAB	COMP	SAMPLE LOCATION	NUMBER/SIZE OF CONTAINERS	VOC 8010	TPH purg 8015	TPH [illegible]	Total Metals	Diss Metals						REMARKS
								FIELD SAMPLE PREPARATION										
TB-S9-SP1-06	11/21/94	1330	WATER	X		BUILDING 6 SP1	6x40ml, 2x1-liter Amber, 2x1-liter Poly	P	P	U	P	B						BAY TAT
TB-S9-SP3-06	11/21/94	1415	WATER	X		BUILDING 6 SP3	6x40ml, 2x1-liter Amber	P	P	U								
TB-S9-SP4-06	11/21/94	1500	WATER	X		BUILDING 6 SP4	6x40ml, 2x1-liter Amber, 2x1-liter Poly	P	P	U	P	B						
TB-S9-SP1-12	11/21/94	1545	WATER	X		BUILDING 12 SP1	6x40ml, 2x1-liter Amber, 2x1-liter Poly	P	P	U	P	B						
TB-S9-SP3-12	11/21/94	1610	WATER	X		BUILDING 12 SP3	6x40ml, 2x1-liter Amber	P	P	U								
TB-S9-SP4-12	11/21/94	1630	WATER	X		BUILDING 12 SP4	6x40ml, 2x1-liter Amber, 2x1-liter Poly	P	P	U	P	B						
RW-S9-NSB-01	11/22/94	0830	WATER	X		NASA SETTLING BASIN EFFLUENT	1x1-liter Poly				P							
TB-01	11/21/94	0800	WATER	X		TRIP BLANK	2x40ml	P										

	SIGNATURE	NAME (print)	COMPANY/TITLE	DATE	TIME
RELINQUISHED BY:	Eric DeRuyter	ERIC DERUYTER	PRC EMI / CIVIL ENGINEER	11/22/94	1600
RECEIVED BY:	Jean L Berrone	Jean Berrone	PRC / Chemist	11/22/94	1605
RELINQUISHED BY:	[illegible]	Jean Berrone	PRC / Chemist	[illegible]	[illegible]
RECEIVED BY:	[illegible]	Benny S. Gonzales	INCHAPE TESTING ANAMETRIX	[illegible]	[illegible]
RELINQUISHED BY:	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
RECEIVED BY:	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

REMARKS: [illegible]

REQ. TURNAROUND: [illegible]

INSTRUCTIONS: Enter only one of the following four codes for each analysis required & for each sample listed. The codes should be entered under the columns labeled ANALYSES REQUESTED.

U = UNPRESERVED AND UNFILTERED SAMPLE P = PRESERVED SAMPLE F = FILTERED SAMPLE B = BOTH PRESERVED & FILTERED

PRELIM RESULTS

4

TOTAL P.04

DEC-12-1994 14:58

ToxScan, Inc. 42 Hangar Way • Watsonville, CA 95076-2404 • (408) 724-4522 • FAX (408) 724-3188

December 7, 1994

PRC Environmental Management, Inc.
1099 18th Street, Suite 1960
Denver, CO 80202

ATTN: Jean Barranco

Dear Jean:

Here are the results of the retest on your samples -06 and -12, which was completed yesterday.

Note that the controls survived at only 80%, while both test samples suffered no mortality. The 20% mortality in the control exposures does not meet the protocol criterion for control survival and the test is therefore technically not a valid one. Since the test samples survived without mortality, I would suggest that the data be submitted with a cover letter that contains the following sentence:

"Even though this bioassay did not meet the 90% control survival criterion, survival of all fish in the two test samples clearly demonstrates the absence of significant acute toxicity."

We did not see any evidence of fungus in our animals this time; we are feeling that our control survival problems may be related to low salt content/hardness in the laboratory water. In future tests we will increase conductivity of our control water to more closely match that of the test waters.

Please call if you have questions.

Sincerely,

Raymond P. Markel, Ph.D.
Director, Bioassay Division

RPM/djc

ToxScan, Inc. 42 Hangar Way • Watsonville, CA 95076-2404 • (408) 724-4522 • FAX (408) 724-3188

PRC Environmental Management, Inc.
1099 18th Street, Suite 1960
Denver, CO 80202

7 December, 1994

ATTN: Jean Barranco

Static acute bioassays were performed on two water samples received from PRC using the 3-spined Stickleback (*Gasterosteus aculeatus*). Samples were collected by PRC personnel and delivered to ToxScan's Watsonville laboratory where the sample set was assigned ToxScan number T-11501. The water was tested using 100%, and 0% (control) concentrations of the sample as delivered. The testing method used was: *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms.* EPA/600/4-90/027, 1991.

All fish were held in the laboratory for at least 2 days prior to test initiation, and no mortality was observed in the species before testing was started.

BIOASSAY CONDITIONS

Date Sampled:	1 December, 1994
Date Started:	2 December, 1994
Lighting:	10-20 microE/M^2/s

	Sticklebacks
No. Fish/Tank:	10
Vol. of Test Solution:	9 L
Test Temperature:	20 ± 2°C

SUMMARY TABLE Percent Survival after 96 hours.

Sample ID	Sticklebacks (*G. aculeatus*)
TS-S9-SP4-06	100
TS-S9-SP4-12	100
Control	80

If you have any questions regarding this report or the methods used for this test please give us a call. Thank you for your patronage.

Raymond P. Markel, Ph.D.
Director, Bioassay Division

96 h Acute Toxicity Test Data Sheet

Lab #	T-11501	Start Date	2 December 1994
Client	PRC Environmental Management, Inc.	End Date	6 December 1994
ID	TS-S9-SP4-06 & TS-S9-SP4-12	Species	G. aculeatus

Treat-ment (ID)	Number Alive at Observation Time (h) 0	24	48	72	96	Environmental Monitoring	0	24	48	72	96
Control	10	10	10	8	7	pH	8.5	8.0	7.8	7.8	8.3
						DO	9.0	7.5	7.2	6.9	8.7
						Temp	19.6	19.0	20.0	19.9	19.1
Control	10	10	10	9	9	pH	8.5	8.0	7.8	7.8	8.2
						DO	9.0	7.6	7.3	7.4	8.7
						Temp	19.5	19.0	19.9	19.9	19.0
-06	10	10	10	10	10	pH	7.6	7.9	8.1	8.1	8.4
						DO	7.6	7.3	7.2	7.3	8.9
						Temp	19.6	19.0	19.9	19.8	19.0
-06	10	10	10	10	10	pH	7.6	7.9	8.0	8.0	8.3
						DO	7.6	7.0	6.7	6.6	8.9
						Temp	19.5	19.0	19.9	19.9	19.1
-12	10	10	10	10	10	pH	7.5	7.8	7.9	7.8	8.2
						DO	7.7	6.6	6.0	6.1	8.5
						Temp	19.5	19.0	19.8	19.8	19.2
-12	10	10	10	10	10	pH	7.5	7.9	7.8	7.7	8.2
						DO	7.8	6.8	6.2	5.9	8.7
						Temp	19.6	19.0	19.9	19.8	19.2

Hardness

Control-initial	164	Sample -06-initial	700	Sample -12-initial	650
Control-final	172	Sample -06-final	700	Sample -12-final	520

Alkalinity

Control-initial	120	Sample -06-initial	365	Sample -12-initial	620
Control-final	128	Sample -06-final	360	Sample -12-final	500

Conductivity

Control-initial	500	Sample -06-initial	1170	Sample -12-initial	1150
Control-final	505	Sample -06-final	1090	Sample -12-final	880

FISH WEIGHT AND LENGTH ANALYSIS SHEET

TEST SPECIFICATIONS:

Date Started:	2 December 1994
Date Completed:	6 December 1994
Test Species:	3-spined Stickleback (*Gasterosteus aculeatus*)
# Organisms/Tank:	10
Volume/Tank:	9 Liters
Test Material Concentrations:	0% (control) and 100%
Replicates/Concentration:	2

Fish Weights and Lengths: Lot Number Gas113094

Fish No.	Weight (g)	Length (mm)
1	0.4381	34
2	0.4033	34
3	0.3407	31
4	0.3994	33
5	0.3463	32
6	0.4900	37
7	0.4809	36
8	0.4084	34
9	0.4749	35
10	0.4326	32
Total	4.2146	338
Mean	0.4215	33.8