DEPARTMENT OF THE NAVY
ENGINEERING FIELD ACTIVITY, WEST
NAVAL FACILITIES ENGINEERING COMMAND
900 COMMODORE DRIVE
SAN BRUNO, CALIFORNIA 94066-5006

N00296.002249
MOFFETT FIELD
SSIC NO. 5090.3

IN REPLY REFER TO:

5090
Ser 1843.2/5029
May 9, 1995

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

SUBJ: MOFFETT FEDERAL AIRFIELD (MFA) SITE 9 SOURCE CONTROL MEASURES (SCM) SELF-MONITORING REPORT FOR MARCH 6, 1995 TO APRIL 9, 1995

Dear Ms. Gladstone:

The U.S. Navy is submitting this self-monitoring report for the three Site 9 SCMs at MFA. This self-monitoring report covers operations from March 6, 1995, to April 9, 1995. 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 system was off line during this period and will not operate until a chemical addition system can be installed to minimize a precipitate problem. Operation of the Building 45 treatment system is expected to resume in late May 1995.

Discharge limits for organic constituents were met by both of the operating systems for this reporting period. The Building 12 system met discharge limits for inorganic constituents. The Building 6 system samples exceeded the discharge limit for selenium and zinc in both the dissolved and total metals analyses. The selenium levels in the effluent were consistent with influent levels and only slightly exceeded the discharge limit. The effluent zinc levels were 114 micrograms per liter (µg/L) in the dissolved sample and 174 µg/L in the total sample. These zinc levels were higher than influent zinc levels and exceeded the zinc discharge limit, which is 110 µg/L. All fish toxicity tests showed the treatment systems' effluent to be nontoxic to the three spined stickleback. Also, there is no apparent relationship between inorganic constituent concentrations in the National Aeronautics and Space Administration (NASA) settling basin and concentrations in the treatment system effluents. Details of all treatment system discharge limit exceedences and all sample data are attached.

5090
Ser 1843.2/5029

SUBJ: MOFFETT FEDERAL AIRFIELD (MFA) SITE 9 SOURCE CONTROL MEASURES (SCM) SELF-MONITORING REPORT FOR MARCH 6, 1995 TO APRIL 9, 1995

The two inorganic constituents at Building 6 that exceeded discharge limits during this operating period are naturally occurring in groundwater. These constituents are at levels consistent with those found in background data, historical extraction well data, basewide groundwater data, and receiving water data. The inorganic constituents will continue to be monitored to evaluate whether any trends are apparent or if the fluctuating effluent concentrations are due to changing natural levels.

I certify that the information contained in this document and all attachments is, to the best of my knowledge, accurate and complete. Please call Su Don Tu of my staff at (415) 244-2524 or Mark Kadnuck at (303) 295-1101 if you have any questions or comments.

Sincerely,

Hubert H. S. Chao
for STEPHEN CHAO
BRAC Environmental Coordinator

Encl:
(1) Self-Monitoring Report for March 6,1995 to April 9, 1995

N00296.002249
MOFFETT FIELD
SSIC NO. 5090.3

MOFFETT FEDERAL AIRFIELD SITE 9 SOURCE CONTROL MEASURES SELF-MONITORING REPORT FOR MARCH 6, 1995 TO APRIL 9, 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: March 6, 1995 - April 9, 1995

System Data*	Bldg 45 System	Bldg 12 System	Bldg 6 System
Total Flow for Period (gal)	NA	64000	58700
Influent pH	NA	7.3	7.6
Effluent pH	NA	7.59	7.84
Influent Temperature (C)	NA	21.3	20.9
Effluent Temperature (C)	NA	19.6	18.1

* Analytical data is attached

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

Treatment System Maintenance for Period
Building 45: System not operating.
Building 12: Changed out bagfilter on 3/21/95.
Building 6: None.

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

Reporting Period: March 6, 1995 - April 9, 1995

TREATMENT SYSTEM
DISCHARGE LIMIT EXCEEDENCE SUMMARY

Sample ID	Analyte	Concentration (ug/L)	Discharge Limit (ug/L)
TS-S9-SP4-06	Se (diss.)	7.8	5
TS-S9-SP4-06	Zn (diss.)	114	110
TS-S9-SP4-06	Se (tot.)	7.8	5
TS-S9-SP4-06	Zn (tot.)	172	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

Mark A. Kadnuck 5-22-95

3-6-95 to 4-9-95

Inchcape Testing Services
Anametrix Laboratories

1961 Concourse Drive
Suite E
San Jose, CA 95131
Tel: 408-432-8192
Fax: 408-432-8188

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Name: Richard Jacobs

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8010 - 01,02,03,04,05,06, 08

9504090

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ITS NDRC Laboratories, Dallas, TX (214)238-5591 ITS Aquatec Laboratories, MA (508)990-3400
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ITS Environmental Laboratories, St. Helens, UK (44) 0744-611553

CVL-Mo96

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S9106

Lab Name: Anametrix, Inc. Contract:

Lab Code: M Case No.: MF003 SAS No.: SDG No.: 0235

Matrix: (soil/water) WATER Lab Sample ID: 9504090-01

Sample wt/vol: .100 (g/mL) ML Lab File ID: HPA09001

Level: (low/med) Date Received: 04/06/95

% Moisture: not dec._____ Date Analyzed: 04/11/95

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	25.	U
75-35-4	1,1-Dichloroethene	25.	U
75-09-2	Methylene chloride	39.	
156-60-5	trans-1,2-Dichloroethene	25.	U
75-34-3	1,1-Dichloroethane	25.	U
156-59-2	cis-1,2-Dichloroethene	280.	
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	1100.	
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	130.	
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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S9306

Lab Name: Anametrix, Inc. Contract:

Lab Code: M Case No.: MF003 SAS No.: SDG No.: 0235

Matrix: (soil/water) WATER Lab Sample ID: 9504090-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: HPA09002

Level: (low/med) Date Received: 04/06/95

% Moisture: not dec._____ Date Analyzed: 04/11/95

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S9406

Lab Name: Anametrix, Inc. Contract:

Lab Code: M Case No.: MF003 SAS No.: SDG No.: 0235

Matrix: (soil/water) WATER Lab Sample ID: 9504090-03

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: HPA09003

Level: (low/med) Date Received: 04/06/95

% Moisture: not dec._____ Date Analyzed: 04/11/95

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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S9112

Lab Name: Anametrix, Inc. Contract:

Lab Code: M Case No.: MF003 SAS No.: SDG No.: 0235

Matrix: (soil/water) WATER Lab Sample ID: 9504090-04

Sample wt/vol: .500 (g/mL) ML Lab File ID: HPA09004

Level: (low/med) Date Received: 04/06/95

% Moisture: not dec._____ Date Analyzed: 04/11/95

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	68.	
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	8.	
156-60-5	trans-1,2-Dichloroethene	23.	
75-34-3	1,1-Dichloroethane	25.	
156-59-2	cis-1,2-Dichloroethene	140.	
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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S9312

Lab Name: Anametrix, Inc. Contract:

Lab Code: M Case No.: MF003 SAS No.: SDG No.: 0235

Matrix: (soil/water) WATER Lab Sample ID: 9504090-05

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: HPA09005

Level: (low/med) Date Received: 04/06/95

% Moisture: not dec._____ Date Analyzed: 04/11/95

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	1.	
74-83-9	Bromomethane	.5	U
75-00-3	Chloroethane	2.	
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

6

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S9412

Lab Name: Anametrix, Inc. Contract:

Lab Code: M Case No.: MF003 SAS No.: SDG No.: 0235

Matrix: (soil/water) WATER Lab Sample ID: 9504090-06

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: HPA09006

Level: (low/med) Date Received: 04/06/95

% Moisture: not dec._____ Date Analyzed: 04/11/95

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

7

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TB-01

Lab Name: Anametrix, Inc. Contract:

Lab Code: M Case No.: MF003 SAS No.: SDG No.: 0235

Matrix: (soil/water) WATER Lab Sample ID: 9504090-08

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: HPA09008

Level: (low/med) Date Received: 04/06/95

% Moisture: not dec._____ Date Analyzed: 04/11/95

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF003P1

Lab Name: Anametrix, Inc. Contract:

Lab Code: M Case No.: MF003 SAS No.: SDG No.: 0235

Matrix: (soil/water) WATER Lab Sample ID: BA1102I1

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: BA1102I1

Level: (low/med) Date Received: 00/00/00

% Moisture: not dec._____ Date Analyzed: 04/11/95

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MF003P2

Lab Name: Anametrix, Inc. Contract:

Lab Code: M Case No.: MF003 SAS No.: SDG No.: 0235

Matrix: (soil/water) WATER Lab Sample ID: BA1103I1

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: BA1103I1

Level: (low/med) Date Received: 00/00/00

% Moisture: not dec._____ Date Analyzed: 04/11/95

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S9306MS

Lab Name: Anametrix, Inc. Contract:

Lab Code: M Case No.: MF003 SAS No.: SDG No.: 0235

Matrix: (soil/water) WATER Lab Sample ID: 9504090-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: HMA09002

Level: (low/med) Date Received: 04/06/95

% Moisture: not dec._____ Date Analyzed: 04/11/95

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	10.	
75-35-4	1,1-Dichloroethene	10.	
75-09-2	Methylene chloride	.5	U
156-60-5	trans-1,2-Dichloroethene	10.	
75-34-3	1,1-Dichloroethane	11.	
156-59-2	cis-1,2-Dichloroethene	11.	
67-66-3	Chloroform	.5	U
71-55-6	1,1,1-Trichloroethane	11.	
56-23-5	Carbon tetrachloride	.5	U
107-06-2	1,2-Dichloroethane	.5	U
79-01-6	Trichloroethene	10.	
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	10.	
124-48-1	Dibromochloromethane	.5	U
108-90-7	Chlorobenzene	9.	
75-25-2	Bromoform	.5	U
79-34-5	1,1,2,2-Tetrachloroethane	.5	U
541-73-1	1,3-Dichlorobenzene	10.	
106-46-7	1,4-Dichlorobenzene	10.	
95-50-1	1,2-Dichlorobenzene	10.	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S9306MSD

Lab Name: Anametrix, Inc. Contract:

Lab Code: M Case No.: MF003 SAS No.: SDG No.: 0235

Matrix: (soil/water) WATER Lab Sample ID: 9504090-02

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: HDA09002

Level: (low/med) Date Received: 04/06/95

% Moisture: not dec._____ Date Analyzed: 04/11/95

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	9.	
75-35-4	1,1-Dichloroethene	9.	
75-09-2	Methylene chloride	.5	U
156-60-5	trans-1,2-Dichloroethene	10.	
75-34-3	1,1-Dichloroethane	10.	
156-59-2	cis-1,2-Dichloroethene	11.	
67-66-3	Chloroform	.5	U
71-55-6	1,1,1-Trichloroethane	10.	
56-23-5	Carbon tetrachloride	.5	U
107-06-2	1,2-Dichloroethane	.5	U
79-01-6	Trichloroethene	9.	
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	9.	
124-48-1	Dibromochloromethane	.5	U
108-90-7	Chlorobenzene	9.	
75-25-2	Bromoform	.5	U
79-34-5	1,1,2,2-Tetrachloroethane	.5	U
541-73-1	1,3-Dichlorobenzene	9.	
106-46-7	1,4-Dichlorobenzene	9.	
95-50-1	1,2-Dichlorobenzene	10.	

PRC ENVIRONMENTAL MANAGEMENT INC.

9504090 (1921) (10) (16) DATE: _____

CHAIN-OF-CUSTODY RECORD

DESTINATION

PROJECT NAME: MOFFETT SITE 9 SCM

PROJECT JOB #: 044-0235/RSC90

SAMPLER(S): PRINTED NAME AND SIGNATURE: Steven Bidering

SAMPLING TEAM #: NA

SAMPLE I.D.	DATE OF COLLECTION	TIME OF COLLECTION	SAMPLE MEDIUM (MATRIX)	GRAB	COMP	SAMPLE LOCATION	NUMBER/SIZE OF CONTAINERS	VOCs	TPH Gas 8015	TPH Diesel 8015	Total Metals	Diss Metals						REMARKS
								ANALYSES REQUIRED										
								FIELD SAMPLE PREPARATION										
TB-59-SP1-06	4-6-95	1215	WATER	X		BUILDING 6 SP1	6x40ml, 2x1-liter Amber, 4x5-liter Poly	P	P	U	P	B						5 DAY TAT
TB-59-SP3-06		1225	WATER	X		BUILDING 6 SP3	6x40ml, 2x1-liter Amber	P	P	U								
TB-59-SP4-06		1235	WATER	X		BUILDING 6 SP4	6x40ml, 2x1-liter Amber, 4x5-liter Poly	P	P	U	P	B						
TB-59-SP1-12		1250	WATER	X		BUILDING 12 SP1	6x40ml, 2x1-liter Amber, 4x5-liter Poly	P	P	U	P	B						
TB-59-SP3-12		1305	WATER	X		BUILDING 12 SP3	6x40ml, 2x1-liter Amber	P	P	U								
TB-59-SP4-12		1325	WATER	X		BUILDING 12 SP4	6x40ml, 2x1-liter Amber, 4x5-liter Poly	P	P	U	P	B						
RW-59-NSB-01		1400	WATER	X		NASA SETTLING BASIN EFFLUENT	2x5-liter Poly				P							
TB-01		1215	WATER	X		TRIP BLANK	2x40ml	P										

SIGNATURE	NAME (print)	COMPANY/TITLE	DATE	TIME
RELINQUISHED BY: Steven B	Steve Bidering	PRC/SMI ENVR. SCI	4/7/95	1600
RECEIVED BY: Benny S. Carrizosa	BENNY S. CARRIZOSA	ITS ANAMETRIX	4/7/95	1600
RELINQUISHED BY: Benny S. Carrizosa	BENNY S. CARRIZOSA	ITS ANAMETRIX	4/7/95	1700
RECEIVED BY: [illegible]	[illegible]	Anametrix	[illegible]	[illegible]
RELINQUISHED BY:				
RECEIVED BY:				

REMARKS: [illegible]

INSTRUCTIONS: Enter only one of the following four codes for each analysis required & for each sample listed. This codes should be entered under the column labeled "ANALYSES REQUIRED".

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

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: 4-14-95

Name: Jean Barranco

Company: PRC - Moffett field.

Fax #: 1-303-295-2818

FROM:

Name: Richard Jacobs

Total Number of Pages (INCLUDING COVER): 4
If all pages are not received, please notify sender at (408) 432-8192.

DID YOU KNOW THAT:

INCHCAPE TESTING SERVICES ENVIRONMENTAL LABORATORIES is a group of six laboratories in the United States and one in the United Kingdom.

COMMENTS: CTO 235 SDG: MF003
PRC — Site 9
TPHg - 01, 02, 03, 04, 05, 06

9504090

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ITS Anametrix Laboratories, CA (408)432-8192 ITS Aquatec Laboratories, VT (802)655-1203
ITS NDRC Laboratories, Dallas, TX (214)238-5591 ITS Aquatec Laboratories, MA (508)990-3400
ITS NDRC Laboratories, Houston, TX (713) 661-8150 ITS West-Paine Laboratories, LA (504)769-4900
ITS Environmental Laboratories, St. Helens, UK (44) 0744-611553

CVL-Mar94

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

TOTAL FUEL HYDROCARBON REPORT

TPHg with BTEX

Workorder # 9504090 Client Project # 0235

ANAMETRIX ID #	1	2	3	4	5
CLIENT ID #	S9106	S9306	S9406	S9112	S9312
CONCENTRATION UNITS	µg/L				
BENZENE					
TOLUENE					
ETHYLBENZENE					
XYLENES					
GASOLINE	800 (2)	<50	<50	23000	<50
% SURROGATE RECOVERY	98%	90%	100%	97%	105%
INSTRUMENT #	HP-4				
DATE ANALYZED	4/13/95	4/12/95	4/12/95	4/12/95	4/12/95
RLMF *	2	1	1	100	1

Date: 4/14/95 Date: 4/14/95

Analyst: RD Reviewer: CS

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

* RLMF - Reporting Limit Multiplication Factor

/1330(/2913)

2

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

TOTAL FUEL HYDROCARBON REPORT

TPHg with BTEX

Workorder # 9504090 Client Project # 0235

ANAMETRIX ID #	6				
CLIENT ID #	59412				
CONCENTRATION UNITS	µg/L				
BENZENE					
TOLUENE					
ETHYLBENZENE					
XYLENES					
GASOLINE	<50				
% SURROGATE RECOVERY	96%				
INSTRUMENT #					
DATE ANALYZED	4/12/95				
RLMF *	1				

Date: 4/14/95 Date: 4/14/95

Analyst: RD Reviewer: KO

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

* RLMF - Reporting Limit Multiplication Factor

/1330(/2913)

3

PRC ENVIRONMENTAL MANAGEMENT INC.

9504090 (19/21) (18) (16) UNIL:

CHAIN-OF-CUSTODY RECORD

DESTINATION

PROJECT NAME: MOFFETT SITE 9 SCM

PROJECT JOB #: 044-0235/RSC90

SAMPLER(S): PRINTED NAME AND SIGNATURE: Steven Biering

SAMPLING TEAM #: NA

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 Diesel	Total Metals	Diss Metals						REMARKS
								ANALYSES REQUIRED										
								FIELD SAMPLE PREPARATION										
TB-59-SP1-06	4-6-95	1215	WATER	X		BUILDING 6 SP1	6x40ml, 2x1-liter Amber, 2x5-liter Poly	P	P	U	P	B						5 DAY TAT
TB-59-SP3-06		1225	WATER	X		BUILDING 6 SP3	6x40ml, 2x1-liter Amber	P	P	U								
TB-59-SP4-06		1235	WATER	X		BUILDING 6 SP4	6x40ml, 2x1-liter Amber, 2x5-liter Poly	P	P	U	P	B						
TB-59-SP1-12		1250	WATER	X		BUILDING 12 SP1	6x40ml, 2x1-liter Amber, 2x5-liter Poly	P	P	U	P	B						
TB-59-SP3-12		1305	WATER	X		BUILDING 12 SP3	6x40ml, 2x1-liter Amber	P	P	U								
TB-59-SP4-12		1325	WATER	X		BUILDING 12 SP4	6x40ml, 2x1-liter Amber, 2x5-liter Poly	P	P	U	P	B						
RW-59-NSB-01		1400	WATER	X		NASA SETTLING BASIN EFFLUENT	2x5-liter Poly				P							
TB-01		1215	WATER	X		TRIP BLANK	2x40 ml	P										

	SIGNATURE	NAME (print)	COMPANY/TITLE	DATE	TIME
RELINQUISHED BY:	Steven Biering	Steve Biering	PRC/EMI ENVR. SCI.	4/7/95	1600
RECEIVED BY:	Benny S. Carrozza	BENNY S. CARROZZA	ITS ANAMETRIX	4/7/95	1600
RELINQUISHED BY:	Benny S. Carrozza	BENNY S. CARROZZA	ITS ANAMETRIX	4/7/95	1700
RECEIVED BY:	[illegible]	Jose Pere	Anametrix	[illegible]	[illegible]
RELINQUISHED BY:					
RECEIVED BY:					

REMARKS:

INSTRUCTIONS: Enter only one of the following four codes for each analysis required & for each sample listed. This code should be entered under the column labeled ANALYSES REQUIRED.

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

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: 4-12-95

Name: Jean Barranco

Company: PRC

Fax #:

FROM:

Name: Richard Jacobs

Total Number of Pages (INCLUDING COVER): 2
If all pages are not received, please notify sender at (408) 432-8192.

DID YOU KNOW THAT:

INCHCAPE TESTING SERVICES ENVIRONMENTAL LABORATORIES is a group of six laboratories in the United States and one in the United Kingdom.

COMMENTS: CTO: 235 SDG: MF003
PRC: Moffett Field - 5 day TAT
TPHd: 01, 02, 03, 04, 05, 06

95 04090

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ITS NDRC Laboratories, Houston, TX (713) 661-8150 ITS West-Paine Laboratories, LA (504)769-4900
ITS Environmental Laboratories, St. Helens, UK (44) 0744-611553

CVE-Mar94

ITS-ANAMETRIX LABORATORIES
1961 Concourse Drive, San Jose, CA 95131, (408) 432-8192 FX (408) 432-8188

TOTAL FUEL HYDROCARBON REPORT

TPH as Diesel / Motor Oil

Priliminary Results.

Workorder # 9504090 Client PRC

Date Extracted 4/10/95 Project # 0235

Matrix WATER / SOIL Instrument ID # HP9 / HP19 / HP23 / HP27

ANAMETRIX ID #	CLIENT ID #	DATE ANALYZED	REPORTING LIMIT ppb	REPORTING LIMIT ppm	AMOUNT FOUND ppb	AMOUNT FOUND ppm	% SURROGATE RECOVERY
1	59106	4/11/95	100	100	ND	ND	91 %
2	59306	↓	100	100	ND	ND	89 %
3	59406	↓	100	100	ND	ND	89 %
4	59112	↓	100	100	1500 *	ND	88 %
5	59312	↓	100	100	ND	ND	85 %
6	59412	↓	100	100	ND	ND	87 %
BA1011F1	M. Blank	4/11/95	100	100	ND	ND	92 %
	* Results quantitated as diesel are due						
	to lighter hydrocarbons, possibly gasoline						

Date: 4/12/95 Date:

Analyst: Reviewer:

METHODS PERFORMED ARE THOSE SPECIFIED BY TRIREGIONAL GUIDELINES.

PRC ENVIRONMENTAL MANAGEMENT INC.

9504090 (19/27) (18) (16) UNIT:

CHAIN-OF-CUSTODY RECORD

DESTINATION

PROJECT NAME: MOFFETT SITE 9 SCM

PROJECT JOB #: 044-0235/RSC9C

SAMPLERS: PRINTED NAME AND SIGNATURE: Steven Bidering

SAMPLING TEAM #: JA

SAMPLE I.D.	DATE OF COLLECTION	TIME OF COLLECTION	SAMPLE MEDIUM (MATRIX)	GRAB	COMP	SAMPLE LOCATION	NUMBER/SIZE OF CONTAINERS	VOC 8010	TPH 8015	TPH 418.1	Total Metals	Diss. Metals						REMARKS
								ANALYSIS REQUIRED / FIELD SAMPLE PREPARATION										
TB-S9-SP1-06	4-6-95	1215	WATER	X		BUILDING 6 SP1	6x40ml, 2x1-liter Amber, 4x.5-liter Poly	P	P	U	P	B						5 DAY TAT
TB-S9-SP3-06		1225	WATER	X		BUILDING 6 SP3	6x40ml, 2x1-liter Amber	P	P	U								
TB-S9-SP4-06		1235	WATER	X		BUILDING 6 SP4	6x40ml, 2x1-liter Amber, 4x.5-liter Poly	P	P	U	P	B						
TB-S9-SP1-12		1250	WATER	X		BUILDING 12 SP1	6x40ml, 2x1-liter Amber, 4x.5-liter Poly	P	P	U	P	B						
TB-S9-SP3-12		1305	WATER	X		BUILDING 12 SP3	6x40ml, 2x1-liter Amber	P	P	U								
TB-S9-SP4-12		1325	WATER	X		BUILDING 12 SP4	6x40ml, 2x1-liter Amber, 4x.5-liter Poly	P	P	U	P	B						
RW-S9-NSB-01		1400	WATER	X		NASA SETTLING BASIN EFFLUENT	2x.5-liter Poly				P							
TB-01		1205	WATER	X		TRIP BLANK	2x40 ml	P										

	SIGNATURE	NAME (print)	COMPANY/TITLE	DATE	TIME
RELINQUISHED BY:	[signature]	Steve Bidering	PRC/SMI ENVR. SCI.	4/7/95	1400
RECEIVED BY:	[signature]	BENNY S. CARRASCO	ITS ANAMETRIX	4/7/95	1600
RELINQUISHED BY:	[signature]	BENNY S. CARRASCO	ITS ANAMETRIX	4/7/95	1700
RECEIVED BY:	[signature]	Jose Perez	Anametrix	[illegible]	[illegible]
RELINQUISHED BY:					
RECEIVED BY:					

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 REQUIRED".

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

Inchcape Testing Services
Anametrix Laboratories

1961 Concourse Drive
Suite E
San Jose, CA 95131
Tel: 408-432-8192
Fax: 408-453-8198

FACSIMILE TRANSMITTAL COVER SHEET

TO: **DATE:** 4/14/95

Name: Jean Barranco

Company: PRC

cc: Fax #: 1-303-295-2818

FROM:

Name: Tracey Pham

Total Number of Pages (INCLUDING COVER): 16
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DID YOU KNOW THAT:

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COMMENTS: CTO: 235 SDG#: MF003
PRC - Moffett Site 9 - 5 days TAT
CLP Metals: 9504090-01, -03, -04, -06 (I and D)
-07 (T only)

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CVR-Nov94

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S9106D

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: MF003

Matrix (soil/water): WATER Lab Sample ID: 04090-01D

Level (low/med): LOW Date Received: 04/06/95

% 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	28.2	B		P
7440-36-0	Antimony	2.6	B		P
7440-38-2	Arsenic	1.4	U		P
7440-39-3	Barium	24.5	B		P
7440-41-7	Beryllium	0.22	B		P
7440-43-9	Cadmium	0.10	U		P
7440-70-2	Calcium	190000			P
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt	0.40	U		P
7440-50-8	Copper	24.5	B		P
7439-89-6	Iron	10.1	U		P
7439-92-1	Lead	3.1			P
7439-95-4	Magnesium	63400			P
7439-96-5	Manganese	22.7			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	1.2	B		P
7440-02-0	Nickel	1.3	U		P
7440-09-7	Potassium	1690	B		P
7782-49-2	Selenium	8.6			P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	36800		E	P
7440-28-0	Thallium	3.7		*	P
7440-62-2	Vanadium	2.4	B		P
7440-66-6	Zinc	4.1	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S9106T

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: MF003

Matrix (soil/water): WATER Lab Sample ID: 04090-01T

Level (low/med): LOW Date Received: 04/06/95

% 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	36.8	B		P
7440-36-0	Antimony	1.9	U		P
7440-38-2	Arsenic	1.6	B		P
7440-39-3	Barium	24.3	B		P
7440-41-7	Beryllium	0.20	B		P
7440-43-9	Cadmium	0.10	U		P
7440-70-2	Calcium	192000			P
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt	0.40	U		P
7440-50-8	Copper	1.0	B		P
7439-89-6	Iron	29.6	B		P
7439-92-1	Lead	2.1	B		P
7439-95-4	Magnesium	63700			P
7439-96-5	Manganese	24.0			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	4.9	B		P
7440-02-0	Nickel	4.9	B		P
7440-09-7	Potassium	1730	B		P
7782-49-2	Selenium	7.4			P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	37000		E	P
7440-28-0	Thallium	1.5	U	*	P
7440-62-2	Vanadium	2.7	B		P
7440-66-6	Zinc	62.4			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S9112D

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: MF003

Matrix (soil/water): WATER Lab Sample ID: 04090-04D

Level (low/med): LOW Date Received: 04/06/95

% 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	24.4	B		P
7440-36-0	Antimony	2.2	B		P
7440-38-2	Arsenic	9.0	B		P
7440-39-3	Barium	434			P
7440-41-7	Beryllium	0.18	B		P
7440-43-9	Cadmium	0.10	U		P
7440-70-2	Calcium	162000			P
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt	0.40	U		P
7440-50-8	Copper	0.50	U		P
7439-89-6	Iron	2150			P
7439-92-1	Lead	1.3	U		P
7439-95-4	Magnesium	68700			P
7439-96-5	Manganese	586			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	0.80	U		P
7440-02-0	Nickel	1.3	U		P
7440-09-7	Potassium	2580	B		P
7782-49-2	Selenium	3.5	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	48000		E	P
7440-28-0	Thallium	1.6	B	*	P
7440-62-2	Vanadium	0.70	U		P
7440-66-6	Zinc	27.7			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S9112T

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: MF003

Matrix (soil/water): WATER Lab Sample ID: 04090-04T

Level (low/med): LOW Date Received: 04/06/95

% 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	27.3	B		P
7440-36-0	Antimony	1.9	U		P
7440-38-2	Arsenic	9.8	B		P
7440-39-3	Barium	455			P
7440-41-7	Beryllium	0.17	B		P
7440-43-9	Cadmium	0.10	U		P
7440-70-2	Calcium	159000			P
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt	0.40	U		P
7440-50-8	Copper	7.3	B		P
7439-89-6	Iron	2560			P
7439-92-1	Lead	2.9	B		P
7439-95-4	Magnesium	68500			P
7439-96-5	Manganese	613			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	0.80	U		P
7440-02-0	Nickel	1.3	U		P
7440-09-7	Potassium	2530	B		P
7782-49-2	Selenium	3.5	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	47500		E	P
7440-28-0	Thallium	1.9	B	*	P
7440-62-2	Vanadium	0.70	U		P
7440-66-6	Zinc	66.4			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S9406D

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: MF003

Matrix (soil/water): WATER Lab Sample ID: 04090-03D

Level (low/med): LOW Date Received: 04/06/95

% 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	27.7	B		P
7440-36-0	Antimony	1.9	U		P
7440-38-2	Arsenic	1.7	B		P
7440-39-3	Barium	27.4	B		P
7440-41-7	Beryllium	0.23	B		P
7440-43-9	Cadmium	0.10	U		P
7440-70-2	Calcium	191000			P
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt	0.40	U		P
7440-50-8	Copper	1.2	B		P
7439-89-6	Iron	86.7	B		P
7439-92-1	Lead	2.0	B		P
7439-95-4	Magnesium	64400			P
7439-96-5	Manganese	9.2	B		P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	2.5	B		P
7440-02-0	Nickel	4.0	B		P
7440-09-7	Potassium	1700	B		P
7782-49-2	Selenium	7.8			P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	37600		E	P
7440-28-0	Thallium	1.5	U	*	P
7440-62-2	Vanadium	0.88	B		P
7440-66-6	Zinc	114			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S9406T

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: MF003

Matrix (soil/water): WATER Lab Sample ID: 04090-03T

Level (low/med): LOW Date Received: 04/06/95

% 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	38.4	B		P
7440-36-0	Antimony	1.9	U		P
7440-38-2	Arsenic	1.4	B		P
7440-39-3	Barium	26.9	B		P
7440-41-7	Beryllium	0.22	B		P
7440-43-9	Cadmium	0.10	U		P
7440-70-2	Calcium	192000			P
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt	0.40	U		P
7440-50-8	Copper	2.3	B		P
7439-89-6	Iron	112			P
7439-92-1	Lead	1.3	U		P
7439-95-4	Magnesium	64500			P
7439-96-5	Manganese	8.2	B		P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	2.2	B		P
7440-02-0	Nickel	4.5	B		P
7440-09-7	Potassium	1690	B		P
7782-49-2	Selenium	7.8			P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	37500		E	P
7440-28-0	Thallium	3.6		*	P
7440-62-2	Vanadium	0.97	B		P
7440-66-6	Zinc	172			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S9412D

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: MF003

Matrix (soil/water): WATER Lab Sample ID: 04090-06D

Level (low/med): LOW Date Received: 04/06/95

% 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	30.5	B		P
7440-36-0	Antimony	3.6	B		P
7440-38-2	Arsenic	4.7	B		P
7440-39-3	Barium	421			P
7440-41-7	Beryllium	0.18	B		P
7440-43-9	Cadmium	0.10	U		P
7440-70-2	Calcium	154000			P
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt	0.40	U		P
7440-50-8	Copper	0.51	B		P
7439-89-6	Iron	194			P
7439-92-1	Lead	1.3	U		P
7439-95-4	Magnesium	67500			P
7439-96-5	Manganese	512			P
7439-97-6	Mercury	0.10	B		CV
7439-98-7	Molybdenum	0.80	U		P
7440-02-0	Nickel	3.8	B		P
7440-09-7	Potassium	2510	B		P
7782-49-2	Selenium	3.5	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	47700		E	P
7440-28-0	Thallium	1.5	U	*	P
7440-62-2	Vanadium	0.77	B		P
7440-66-6	Zinc	27.8			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S9412T

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: MF003

Matrix (soil/water): WATER Lab Sample ID: 04090-06T

Level (low/med): LOW Date Received: 04/06/95

% 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	32.9	B		P
7440-36-0	Antimony	1.9	U		P
7440-38-2	Arsenic	4.8	B		P
7440-39-3	Barium	431			P
7440-41-7	Beryllium	0.20	B		P
7440-43-9	Cadmium	0.10	U		P
7440-70-2	Calcium	157000			P
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt	0.40	U		P
7440-50-8	Copper	4.5	B		P
7439-89-6	Iron	253			P
7439-92-1	Lead	1.3	U		P
7439-95-4	Magnesium	68700			P
7439-96-5	Manganese	522			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	0.80	U		P
7440-02-0	Nickel	3.5	B		P
7440-09-7	Potassium	2610	B		P
7782-49-2	Selenium	3.5	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	54000		E	P
7440-28-0	Thallium	1.5	U	*	P
7440-62-2	Vanadium	0.70	U		P
7440-66-6	Zinc	52.5			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

ENVIROFORMS/INORGANIC CLP

1

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

S9B01T

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: MF003

Matrix (soil/water): WATER Lab Sample ID: 04090-07T

Level (low/med): LOW Date Received: 04/06/95

% 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	1.9	U		P
7440-38-2	Arsenic	1.8	B		P
7440-39-3	Barium	51.6	B		P
7440-41-7	Beryllium	0.17	B		P
7440-43-9	Cadmium	0.10	U		P
7440-70-2	Calcium	184000			P
7440-47-3	Chromium	1.0	U		P
7440-48-4	Cobalt	0.40	U		P
7440-50-8	Copper	7.4	B		P
7439-89-6	Iron	145			P
7439-92-1	Lead	3.4			P
7439-95-4	Magnesium	78300			P
7439-96-5	Manganese	57.5			P
7439-97-6	Mercury	0.10	U		CV
7439-98-7	Molybdenum	9.2			P
7440-02-0	Nickel	2.7	B		P
7440-09-7	Potassium	3400	B		P
7782-49-2	Selenium	10.4			P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	50100		E	P
7440-28-0	Thallium	1.5	U	*	P
7440-62-2	Vanadium	3.2	B		P
7440-66-6	Zinc	26.8			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

ENVIROFORMS/INORGANIC CLP

5A
SPIKE SAMPLE RECOVERY

SAMPLE NO.

S9106DS

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: MF003

Matrix (soil/water): WATER Level (low/med): LOW
% Solids for Sample: 0.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	1903.6373		28.1653	B	2000.00	93.8		P
Antimony	75-125	472.8633		2.6483	B	500.00	94.0		P
Arsenic	75-125	97.0471		1.4000	U	100.00	97.0		P
Barium	75-125	1914.5570		24.4782	B	2000.00	94.5		P
Beryllium	75-125	44.3255		0.2195	B	50.00	88.2		P
Cadmium	75-125	45.6824		0.1000	U	50.00	91.4		P
Calcium									NR
Chromium	75-125	182.7090		1.0000	U	200.00	91.4		P
Cobalt	75-125	448.9850		0.4000	U	500.00	89.8		P
Copper	75-125	268.3590		24.5129	B	250.00	97.5		P
Iron	75-125	833.3181		10.1000	U	1000.00	83.3		P
Lead	75-125	46.7171		3.0801		50.00	87.3		P
Magnesium									NR
Manganese	75-125	466.9810		22.7101		500.00	88.9		P
Mercury	75-125	1.0930		0.1000	U	1.00	109.3		CV
Molybdenum	75-125	1960.8186		1.1557	B	2000.00	98.0		P
Nickel	75-125	434.6364		1.3000	U	500.00	86.9		P
Potassium									NR
Selenium	75-125	55.0238		8.6416		50.00	92.8		P
Silver	75-125	43.0151		0.5000	U	50.00	86.0		P
Sodium									NR
Thallium	75-125	96.7736		3.7372		100.00	93.0		P
Vanadium	75-125	461.7375		2.4455	B	500.00	91.9		P
Zinc	75-125	464.6536		4.0632	B	500.00	92.1		P

Comments:

ENVIROFORMS/INORGANIC CLP

6
DUPLICATES

SAMPLE NO.

S9106DD

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: MF003

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		28.1653	B	29.8862	B	5.9		P
Antimony		2.6483	B	4.6037	B	53.9		P
Arsenic		1.4000	U	1.4000	U			P
Barium		24.4782	B	24.6688	B	0.8		P
Beryllium		0.2195	B	0.2332	B	6.1		P
Cadmium		0.1000	U	0.1000	U			P
Calcium		189529.4300		191656.1400		1.1		P
Chromium		1.0000	U	1.0000	U			P
Cobalt		0.4000	U	0.4000	U			P
Copper		24.5129	B	24.4342	B	0.3		P
Iron		10.1000	U	10.1000	U			P
Lead	3.0	3.0801		2.4756	B	21.8		P
Magnesium		63392.4880		63865.6620		0.7		P
Manganese	15.0	22.7101		22.8566		0.6		P
Mercury		0.1000	U	0.1000	U			CV
Molybdenum		1.1557	B	1.8674	B	47.1		P
Nickel		1.3000	U	1.3000	U			P
Potassium		1689.0683	B	1750.1922	B	3.6		P
Selenium	5.0	8.6416		5.7346		40.4		P
Silver		0.5000	U	0.5000	U			P
Sodium		36795.0430		37239.3610		1.2		P
Thallium	2.0	3.7372		1.5000	U	200.0	*	P
Vanadium		2.4455	B	2.5433	B	3.9		P
Zinc		4.0632	B	6.7680	B	49.9		P

FORM VI - IN (ILM02.1)

ENVIROFORMS/INORGANIC CLP

9

ICP SERIAL DILUTIONS

SAMPLE NO.

S9106DL

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: MF003

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	28.17	B	123.91	B	339.9		P
Antimony	2.65	B	9.50	U	100.0		P
Arsenic	1.40	U	7.00	U			P
Barium	24.48	B	25.78	B	5.3		P
Beryllium	0.22	B	1.49	B	577.3		P
Cadmium	0.10	U	0.50	U			P
Calcium	189529.44		184930.35		2.4		P
Chromium	1.00	U	5.00	U			P
Cobalt	0.40	U	2.00	U			P
Copper	24.51	B	22.59	B	7.8		P
Iron	10.10	U	50.50	U			P
Lead	3.08		6.50	U	100.0		P
Magnesium	63392.49		66190.05		4.4		P
Manganese	22.71		23.84	B	5.0		P
Mercury							
Molybdenum	1.16	B	4.00	U	100.0		P
Nickel	1.30	U	6.50	U			P
Potassium	1689.07	B	1328.88	B	21.3		P
Selenium	8.64		17.50	U	100.0		P
Silver	0.50	U	2.50	U			P
Sodium	36795.04		32993.24		10.3	E	P
Thallium	3.74		7.50	U	100.0		P
Vanadium	2.45	B	3.50	U	100.0		P
Zinc	4.06	B	7.20	B	77.3		P

ENVIROFORMS/INORGANIC CLP

3
BLANKS

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: MF003

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	14.6	B	22.0	B	19.1	B	8.7	B	24.205	B	P
Antimony	1.9	U	1.9	U	1.9	U	1.9	U	1.900	U	P
Arsenic	1.4	U	1.4	U	1.6	B	1.4	U	1.400	U	P
Barium	0.4	U	0.4	U	0.4	U	0.4	U	0.400	U	P
Beryllium	0.2	B	0.3	B	0.3	B	0.1	B	0.244	B	P
Cadmium	0.1	U	-0.1	B	0.1	B	0.2	B	0.100	U	P
Calcium	11.9	U	11.9	U	11.9	U	11.9	U	34.462	B	P
Chromium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Cobalt	0.4	U	-0.5	B	0.4	U	0.4	U	-0.517	B	P
Copper	-1.0	B	-1.2	B	-0.6	B	0.5	U	-0.788	B	P
Iron	10.1	U	10.1	U	10.1	U	10.1	U	10.100	U	P
Lead	1.3	U	1.3	U	1.3	U	1.3	U	1.300	U	P
Magnesium	5.1	U	5.1	U	5.1	U	5.1	U	6.633	B	P
Manganese	0.2	U	0.2	U	0.2	U	0.2	U	0.200	U	P
Mercury	-0.1	B	-0.1	B	-0.1	B			0.100	U	CV
Molybdenum	0.9	B	0.8	U	0.8	U	1.1	B	0.800	U	P
Nickel	1.3	U	1.3	U	1.3	U	1.3	U	1.300	U	P
Potassium	43.9	U	43.9	U	43.9	U	43.9	U	43.900	U	P
Selenium	3.5	U	3.5	U	3.5	U	3.5	U	3.500	U	P
Silver	0.5	U	0.5	U	0.5	U	0.5	U	0.500	U	P
Sodium	128.6	U	128.6	U	128.6	U	128.6	U	128.600	U	P
Thallium	1.5	U	1.8	B	1.5	U	1.6	B	1.594	B	P
Vanadium	0.7	U	0.7	U	0.7	U	0.7	U	0.700	U	P
Zinc	0.3	U	0.3	U	0.3	B	0.3	U	5.536	B	P

ENVIROFORMS/INORGANIC CLP

7

LABORATORY CONTROL SAMPLE

Lab Name: ANAMETRIX INC Contract: 000000

Lab Code: ANAMET Case No.: 0235 SAS No.: 000000 SDG No.: MF003

Solid LCS Source: RICCA

Aqueous LCS Source: RICCA

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	2000.0	2038.39	101.9						
Antimony	500.0	480.38	96.1						
Arsenic	100.0	97.46	97.5						
Barium	2000.0	1927.01	96.4						
Beryllium	50.0	46.68	93.4						
Cadmium	50.0	49.24	98.5						
Calcium	10000.0	10465.60	104.7						
Chromium	200.0	192.81	96.4						
Cobalt	500.0	484.87	97.0						
Copper	250.0	241.76	96.7						
Iron	1000.0	965.82	96.6						
Lead	50.0	47.83	95.7						
Magnesium	2000.0	2075.27	103.8						
Manganese	500.0	470.17	94.0						
Mercury	1.0	1.05	105.0						
Molybdenum	2000.0	2035.50	101.8						
Nickel	500.0	470.58	94.1						
Potassium	10000.0	11243.44	112.4						
Selenium	50.0	50.09	100.2						
Silver	50.0	44.13	88.3						
Sodium	10000.0	10227.73	102.3						
Thallium	100.0	102.07	102.1						
Vanadium	500.0	475.04	95.0						
Zinc	500.0	483.10	96.6						

FORM VII - IN (ILM02.1)

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

14 April, 1995

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-12048. 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:	7 April, 1995
Date Started:	11 April, 1995
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	95
TS-S9-SP4-12	95
Control	100

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 Markel/DJ

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

FISH WEIGHT AND LENGTH ANALYSIS SHEET

TEST SPECIFICATIONS:

Date Started:	7 April 1995
Date Completed:	11 April 1995
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 GAS022895

Fish No.	Weight (g)	Length (mm)
1	0.4979	31
2	0.4151	33
3	0.6200	34
4	0.4397	31
5	0.5403	33
6	0.5490	34
7	0.4178	31
8	0.4086	31
9	0.4127	32
10	0.4130	32
Total	4.7141	322
Mean	0.4714	32.2

96 h Acute Toxicity Test Data Sheet

Lab #	T-12048	Start Date	7 April 1995
Client	PRC Environmental Management, Inc.	End Date	11 April 1995
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	10	10	pH	8.4	7.9	8.2	8.2	8.2
						DO	8.6	7.2	7.7	7.9	8.4
						Temp	19.0	18.1	21.6	20.9	19.7
Control	10	10	10	10	10	pH	8.4	7.9	8.1	8.1	8.2
						DO	8.6	6.9	7.5	7.8	8.4
						Temp	19.0	18.1	21.6	20.9	19.3
-06	10	10	10	9	9	pH	7.6	7.9	8.4	8.7	8.6
						DO	7.0	6.4	7.7	7.6	8.4
						Temp	19.0	18.2	21.4	20.7	19.2
-06	10	10	10	10	10	pH	7.6	7.9	8.3	8.5	8.6
						DO	6.9	6.4	6.8	7.3	8.4
						Temp	19.0	18.1	21.3	20.9	19.1
-12	10	10	10	10	10	pH	7.5	8.0	8.0	8.2	8.4
						DO	6.7	7.1	7.4	7.6	8.4
						Temp	19.1	18.2	21.1	21.0	19.1
-12	10	10	10	10	9	pH	7.5	7.9	8.3	8.4	8.5
						DO	6.7	6.6	7.8	8.0	8.4
						Temp	19.2	18.1	20.7	20.9	19.3

Hardness

Control-initial	236	Sample -06-initial	677	Sample -12-initial	638
Control-final	270	Sample -06-final	665	Sample -12-final	380

Alkalinity

Control-initial	122	Sample -06-initial	322	Sample -12-initial	619
Control-final	124	Sample -06-final	330	Sample -12-final	340

Conductivity

Control-initial	1100	Sample -06-initial	1150	Sample -12-initial	1100
Control-final	1100	Sample -06-final	1100	Sample -12-final	800