RUST ENVIRONMENT & INFRASTRUCTURE

ALCO
HAZMAT

94 FEB 28 PM 12:30

RUST Environment & Infrastructure Inc.
12 Metro Park Road
Albany, NY 12205
Tel. (518) 458-1313 • FAX (518) 458-2472

February 21, 1994

Mr. Barney M. Chan
Hazardous Materials Specialist
Department of Environmental Health
80 Swan Way
Oakland, California 94621

Reviewed 2/28/94

Subject: American National Can Company
Oakland, California Facility

Dear Mr. Chan:

Rust Environment & Infrastructure, Inc. (RUST) has completed an eleventh round of quarterly groundwater monitoring for the subject site, the seventh round following the revised groundwater monitoring plan (dated April 27, 1992). This round of monitoring was conducted between December 20 and 22, 1993.

While completing this round of sampling, monitoring wells GW-2 in Area 3 and TW-1 in Area 2 had thin layers of floating free product. Due to the presence of free product in these wells, representative groundwater samples could not be collected. In complying with requests outlined in your February 5, 1993 letter, free product identified during monitoring was removed from each well and stored in DOT-approved 55-gallon drums for future off-site disposal.

Since the presence of product precluded the collection of a sample from GW-2 for analysis, the sample from MW-6 was analyzed for semi-volatile organic compounds. Groundwater samples from all other monitoring wells were collected and analyzed in accordance with the revised monitoring plan.

A trace estimated concentration (2 ppb) of xylenes was detected in MW-14, where it was not previously detected. This monitoring well will continue to be monitored to evaluate the significance of the presence of contamination. Another notable difference in this round of monitoring is that TPHd was not detected in well MW-21, the downgradient monitoring well for Area 2. Otherwise, analytical results obtained from this round of groundwater monitoring do not reveal any remarkable changes from previous sampling events.

With this letter, RUST is forwarding the results obtained during this quarterly monitoring event. Table 1 is a summary of groundwater levels and product thickness measurements recorded December 20, 1993. Plate 16 is a map of these groundwater elevation measurements. Table 2 provides a summary of the results from analyses of groundwater samples collected. A detailed laboratory analytical report is included with this letter.

If you have any questions, please call me.

Very truly yours,

Edward W. Alusow

Edward W. Alusow
Senior Project Manager

EWA/mhh

cc: J. Moran, Esq., ANC
L. Feldman, SFBRWQCB

D:CHANJAN.DOC

TABLE 1
AMERICAN NATIONAL CAN COMPANY
OAKLAND, CALIFORNIA, FACILITY

Summary of Water Level Measurements

WELL NO.	M.P. EL.	3/1/93 DEPTH TO PRODUCT	3/1/93 DEPTH TO WATER	3/1/93 W.T. EL.	6/2/93 DEPTH TO PRODUCT	6/2/93 DEPTH TO WATER	6/2/93 W.T. EL.	9/27/93 DEPTH TO PRODUCT	9/27/93 DEPTH TO WATER	9/27/93 W.T. EL.	12/20/93 DEPTH TO PRODUCT	12/20/93 DEPTH TO WATER	12/20/93 W.T. EL.
MW-1	15.47		10.12	5.35		11.15	4.32		12.90	2.57		12.52	2.95
MW-2	14.86	8.81	8.79	6.05		9.23	5.63	10.83	10.86	4.02	10.85	10.87	4.01
MW-3	14.56		7.96	6.60		8.55	6.01	10.05	10.06	4.51	9.58	9.59	4.98
MW-4	15.27		10.38	4.89		11.35	3.92		12.15	3.12		11.92	3.35
MW-5	14.73	9.97	10.08	4.74	10.85	11.18	3.82	11.56	11.95	3.10	11.23	11.39	3.47
MW-6	13.24		8.74	4.50		9.73	3.51		10.37	2.87		10.01	3.23
MW-7	16.20		11.48	4.72		12.37	3.83		13.05	3.15		12.74	3.46
MW-8	12.90		8.58	4.32		9.42	3.48		10.06	2.84		9.70	3.20
MW-9	11.69		7.98	3.71		8.86	2.83		9.41	2.28		9.05	2.64
MW-10	13.03		8.38	4.65		9.34	3.69		10.02	3.01		9.63	3.40
MW-11	14.49		9.28	5.21		10.21	4.28		10.94	3.55		10.57	3.92
MW-12	16.81		7.66	9.15		7.12	9.69		7.77	9.04		7.47	9.34
MW-13	18.31		8.34	9.97		9.05	9.26		9.30	9.01		9.25	9.06
MW-14	12.00		8.16	3.84		9.04	2.96		9.92	2.08		9.26	2.74
MW-15	17.88		10.42	7.46		11.53	6.35		12.22	5.66		11.65	6.23
MW-16	12.26		7.87	4.39		8.73	3.53		9.45	2.81		9.09	3.17
MW-17	9.09		3.66	5.43		4.94	4.15		5.67	3.42		5.34	3.75
MW-18	13.10		8.38	4.72	not accessible				10.03	3.07		9.66	3.44
MW-19	13.12		8.44	4.68		9.42	3.70		10.10	3.02		9.72	3.40
MW-20	13.14		8.32	4.82		9.27	3.87		9.95	3.19		9.60	3.54
MW-21	12.86		8.08	4.78		9.00	3.86		9.64	3.22		9.31	3.55
TW-1	17.76	10.11	10.14	7.62	11.15	11.18	6.60	12.02	12.03	5.74	* 11.72	11.72	6.04
GW-1	15.35	9.94	9.97	5.40	10.68	10.69	4.67	* 12.67	12.67	2.68	12.62	12.63	2.73
GW-2	13.10	8.80	8.86	4.29	9.71	9.72	3.39	* 10.36	10.36	2.74	* 9.98	9.98	3.12
GW-3	11.55		7.34	4.21		8.25	3.30		8.82	2.73		8.53	3.02
GW-4	11.70		8.30	3.40		8.98	2.72		9.45	2.25		9.19	2.51
GW-5	17.72		7.08	10.64		7.69	10.03		8.45	9.27		8.52	9.20
GW-6	19.78	11.59	11.78	8.16	13.00	13.05	6.77		14.40	5.38		13.12	6.66

* Indicates a thin film (,0.01-feet thick) of product was detected on the water surface with an oil/water interface probe.
All elevations (EL.) are expressed in feet above mean sea level.
Depths are measured in feet below the well measuring point (M.P.).
Estimated product specific gravity of 0.83 was used to calculate an adjusted depth to water in wells containing product.

TABLE 2
AMERICAN NATIONAL CAN COMPANY
OAKLAND, CALIFORNIA, FACILITY

Summary of Quarterly Ground Water Analytical Results - December, 1993

ANALYSIS	AREA - 2		AREA - 3							AREA - 4		
	MW-21	TW-1	MW-1	MW-6	DUP X-1	MW-7	MW-18	MW-19	MW-20	MW-8	MW-9	MW-14
Volatile Organics (EPA Methods 624)(ug/l)												
Dilution Factor	--	--	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	--	--
Vinyl Chloride	--	--	3 J	nd	nd	nd	nd	nd	nd	nd	--	--
Trans-1,2-Dichloroethene	--	--	3 J	nd	nd	nd	nd	nd	nd	nd	--	--
1,1-Dichloroethane	--	--	nd	28	27	nd	nd	nd	nd	nd	--	--
Cis-1,2-Dichloroethene	--	--	3 J	nd	nd	nd	nd	nd	nd	nd	--	--
1,1,1-Trichloroethane	--	--	nd	3 J	3 J	nd	nd	nd	nd	nd	--	--
Benzene	--	--	nd	nd	nd	nd	nd	11	nd	nd	--	--
Tetrachloroethene	--	--	nd	nd	nd	nd	nd	nd	3 J	nd	--	--
Chlorobenzene	--	--	7	nd	nd	nd	nd	58	nd	nd	--	--
Ethylbenzene	--	--	nd	nd	nd	nd	nd	nd	nd	nd	--	--
Total Xylenes	--	--	2 J	nd	nd	nd	nd	4 J	nd	nd	--	--
1,3-Dichlorobenzene	--	--	3 J	nd	nd	nd	nd	3 J	nd	nd	--	--
1,4-Dichlorobenzene	--	--	17	nd	nd	nd	nd	23	nd	nd	--	--
1,2-Dichlorobenzene	--	--	15	nd	nd	nd	nd	29	nd	nd	--	--
Total	--	--	53 J	31 J	30 J	nd	nd	128 J	3 J	nd	--	--
TICS Total	--	--	60 J	0	0	0	0	130 J	0	0	--	--
Semi-Volatile Organics (EPA Methods 625)(ug/l)												
Dilution Factor	--	--	1.0	1.0	1.0	--	--	1.0	--	--	--	--
1,4-Dichlorobenzene			13	nd	nd	--	--	17	--			
1,2-Dichlorobenzene			11	nd	nd	--	--	19	--			
2-Methylnaphthalene	--	--	nd	nd	nd	--	--	36	--	--	--	--
Phenanthrene			nd	nd	nd	--	--	4 J	--			
Bis (2-Ethylhexyl) Phthalate	--	--	5 J	7 J	nd	--	--	5 J	--	--	--	--
Total	--	--	29 J	7 J	0	--	--	81 J	--	--	--	--
TPH as Gasoline (EPA Methods 5030/8015)(ug/l)	--	--	--	--	--	--	--	--	--	nd	nd	nd
BTEX (EPA Methods 5030/8020)(ug/l)												
Benzene	--	--	--	--	--	--	--	--	--	--	nd	nd
Toluene	--	--	--	--	--	--	--	--	--	--	nd	nd
Ethylbenzene	--	--	--	--	--	--	--	--	--	--	nd	nd
Total Xylenes	--	--	--	--	--	--	--	--	--	--	nd	2.0
TPH as Diesel (EPA Method 3510)(ug/l)	nd	--	15000	79	69	110	67	15000	74	nd	--	--
PCBs (EPA Method 8080)(ug/l)												
Aroclor-1260	--	--	23	nd	nd	nd	nd	2.7	nd	nd	--	--
Metals												
Nickel (filtered)	nd	--	--	--	--	--	--	--	--	--	--	--
Zinc (filtered)	nd	--	--	--	--	--	--	--	--	--	--	--

- - indicates compound was not analyzed for.
nd indicates compound was not detected.
J indicates compound was detected at an amount below the specified reporting limit. Consequently, the amount should be considered an approximate value.
Dup X-1 is a field duplicate of sample MW - 6.

Inchcape Testing Services
Anametrix Laboratories

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

MR. ED ALUSOW
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9312275
Date Received : 12/22/93
Project ID : 02345-01983
Purchase Order: 29518

The following samples were received at Anametrix, Inc. for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9312275- 1	2:MW-21

This report consists of 10 pages not including the cover letter, and is organized in sections according to the specific Anametrix laboratory group or section which performed the analysis(es) and generated the data. The Report Summary that precedes each section will help you determine which Anametrix group is responsible for those test results, and will bear the signatures of the department supervisor and the chemist who have reviewed the analytical data. Please refer all questions to the department supervisor who signed the form.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234. A detailed list of the approved fields of testing can be obtained by calling our office, or the DHS Environmental Laboratory Accreditation Program at (415)540-2800.

If you have any further questions or comments on this report, please give us a call as soon as possible. Thank you for using Anametrix.

Sarah Schoen, Ph.D.
Laboratory Director

12-29-93
Date

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. ED ALUSOW
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9312275
Date Received : 12/22/93
Project ID : 02345-01983
Purchase Order: 29518
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9312275- 1	2:MW-21	WATER	12/22/93	TPHd

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. ED ALUSOW
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9312275
Date Received : 12/22/93
Project ID : 02345-01983
Purchase Order: 29518
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- No QA/QC problems encountered for this sample.

Department Supervisor — Date: 12/29/93

Chemist — Date: 12/29/93

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS AS DIESEL
ANAMETRIX, INC. (408) 432-8192

Anametrix W.O.: 9312275
Matrix : WATER
Date Sampled : 12/22/93
Date Extracted: 12/23/93

Project Number : 02345-01983
Date Released : 12/29/93
Instrument I.D.: HP9

Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (ug/L)	Amount Found (ug/L)	Surrogate %Rec
9312275-01	2:MW-21	12/24/93	50	ND	43%
BD2311F1	METHOD BLANK	12/24/93	50	ND	65%

Note : Reporting limit is obtained by multiplying the dilution factor times 50 ug/L.
The surrogate recovery limits for C25 are 30-130%.

ND - Not detected at or above the practical quantitation limit for the method.
TPHd - Total Petroleum Hydrocarbons as C10-C28 is determined by GCFID following sample extraction by EPA Method 3510.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

fcSh 12/29/93
Analyst Date

Teresa Shaw 12/29/93
Supervisor Date

TOTAL EXTRACTABLE HYDROCARBON LABORATORY CONTROL SAMPLE REPORT
EPA METHOD 3510 WITH GC/FID
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : LAB CONTROL SAMPLE
Matrix : WATER
Date Sampled : N/A
Date Extracted: 12/23/93
Date Analyzed : 12/24/93

Anametrix I.D. : MD2311F1
Analyst :
Supervisor :
Date Released : 12/29/93
Instrument I.D.: HP9

COMPOUND	SPIKE AMT (ug/L)	LCS REC (ug/L)	% REC LCS	LCSD REC (ug/L)	% REC LCSD	RPD	% REC LIMITS
DIESEL	1250	760	61%	850	68%	11%	47-130
SURROGATE			73%		77%		30-130

* Quality control limits established by Anametrix, Inc.

ANAMETRIX REPORT DESCRIPTION
INORGANICS

Analytical Data Report (ADR)

The ADR contains tabulated results for inorganic analytes. All field samples, QC samples and blanks were prepared and analyzed according to procedures in the following references:

- "Test Methods for Evaluating Solid Waste," SW-846, EPA, 3rd Edition, November 1986.
- "Methods for Chemical Analysis of Water and Wastes," EPA, 3rd Edition, 1983.
- CCR Title 22, Section 66261, Appendix II, California Waste Extraction Test.
- CCR Title 22, Section 66261, Appendix XI, Organic Lead.
- "Standard Methods for the Examination of Water and Wastewater," APHA, AWWA, WEF, 18th Edition, 1992.
- USEPA Contract Laboratory Program Statement of Work for Inorganic Analyses, ILM02.1, 1991.

Matrix Spike Report (MSR)

The MSR summarizes percent recovery and relative percent difference information for matrix spikes and matrix spike duplicates. This information is a statement of both accuracy and precision. MSRs may not be provided with all analytical reports. Anametrix control limit for MSR is 75-125% with 25% for RPD limits.

Laboratory Control Sample Report (LCSR)

The LCSR summarizes percent recovery information for laboratory control spikes on reagent water or soil. This information is a statement of performance for the method, i.e., the samples are properly prepared and analyzed according to the applicable methods. Anametrix control limit for LCSR is 80-120%.

Method Blank Report (MBR)

The MBR summarizes quality control information for reagents used in preparing samples. The absolute value of each analyte measured in the method blank should be below the method reporting limit for that analyte.

Post Digestion Spike Report (PDSR)

The PDSR summarizes percent recovery information for post digestion spikes. A post digestion spike is performed for a particular analyte if the matrix spike recovery is outside of established control limits. Any percent recovery for a post digestion spike outside of established limits for an analyte indicates probable matrix effects and interferences for that analyte. Anametrix control limit for PDSR is 85-115%.

Qualifiers (Q)

Anametrix uses several data qualifiers in inorganic reports. These qualifiers give additional information on the analytes reported. The following is a list of qualifiers and their meanings:

I - Sample was analyzed at the stated dilution due to spectral interferences.
U - Analyte concentration was below the method reporting limit. For matrix and post digestion spike reports, a value of "0.0" is entered for calculation of the percent recovery.
B - Sample concentration was below the reporting limit but above the instrument detection limit. Result is entered for calculation of the percent recovery only.
H - Spike percent recovery was outside of Anametrix control limits due to interferences from relatively high concentration level of the analyte in the unspiked sample.
L - Reporting limit was increased to compensate for background absorbances or matrix interferences.

Comment Codes

In addition to qualifiers, the following codes are used in the comment section of all reports to give additional information about sample preparation methods:

A - Sample was prepared for silver based on the silver digestion method developed by the Southern California Laboratory, Department of Health Services, "Acid Digestion for Sediments, Sludges, Soils and Solid Wastes. A Proposed Alternative to EPA SW846, Method 3050." Environmental Science and Technology, 1989, 23, 898-900.
T - Spikes were prepared after extraction by the Toxicity Characteristic Leaching Procedure (TCLP).
C - Spikes were prepared after extraction by the California Waste Extraction Test (CWET) method.
D - Reported results are dissolved, not total, metals.

Reporting Conventions

Analytical values reported are gross values, i.e., not corrected for method blank contamination. Solid matrices are reported on a wet weight basis, unless specifically requested otherwise. Unless noted, all samples were prepared according to procedures in the EPA Contract Laboratory Program Statement of Work, ILM02.1, 1991.

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. ED ALUSOW
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9312275
Date Received : 12/22/93
Project ID : 02345-01983
Purchase Order: 29518
Department : METALS
Sub-Department: METALS

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9312275- 1	2:MW-21	WATER	12/22/93	6010

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. ED ALUSOW
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9312275
Date Received : 12/22/93
Project ID : 02345-01983
Purchase Order: 29518
Department : METALS
Sub-Department: METALS

QA/QC SUMMARY :

- No QA/QC problems encountered for sample.

Department Supervisor 12/29/93 Date

Chemist 12/24/93 Date

INORGANIC ANALYSIS DATA SHEET
ANAMETRIX, INC. (408) 432-8192

Anametrix I.D.: 9312275-01
Client I.D. : 2:MW-21
Project I.D. : 02345-01983
Matrix : WATER
Reporting Unit: ug/L

Date Sampled : 12/22/93
Analyst : JO
Supervisor : MN
Date Released : 12/29/93
Instrument I.D. : ICP1

ANALYTE-METHOD	DATE PREPARED	DATE ANALYZED	REPORT LIMIT	DIL. FACTOR	RESULT	Q
Nickel-6010	12/27/93	12/28/93	40.0	1	ND	
Zinc-6010	12/27/93	12/28/93	20.0	1	ND	

COMMENT:

METHOD BLANK REPORT
ANAMETRIX, INC. (408) 432-8192

Anametrix W.O.# : 9312275
Method Blank I.D.: MB1227WA
Project I.D. : 02345-01983
Matrix : WATER
Reporting Unit : ug/L

Analyst : LD
Supervisor : [illegible]
Date Released : 12/29/93
Instrument I.D. : ICP1

ANALYTE-METHOD	DATE PREPARED	DATE ANALYZED	REPORTING LIMIT	RESULT	Q
Nickel-6010	12/27/93	12/28/93	40.0	ND	
Zinc-6010	12/27/93	12/28/93	20.0	ND	

COMMENT:

LABORATORY CONTROL SAMPLE REPORT
ANAMETRIX, INC. (408) 432-8192

Anametrix W.O.# : 9312275
Spike I.D. : LCS1227WA
Project I.D. : 02345-01983
Matrix : WATER
Reporting Unit : ug/L

Analyst :
Supervisor :
Date Released : 12/29/93
Instrument I.D.: ICP1

ANALYTE-METHOD	DATE PREPARED	DATE ANALYZED	SPIKE AMT.	METHOD SPIKE	% REC.	Q
Nickel-6010	12/27/93	12/27/93	500	579	116	
Zinc-6010	12/27/93	12/27/93	500	555	111	

COMMENT:

ANAMETRIX INC
Environmental & Analytical Chemistry
1961 Concourse Drive, Suite E, San Jose, CA 95131
(408) 432-8192 • Fax (408) 432 8198

AREA 2 SAMPLES

CHAIN-OF-CUSTODY RECORD

PROJECT NUMBER	PROJECT NAME
02345-01983	American National Can (ANC)

Send Report Attention of:	Report Due	Verbal Due
Ed Alvsow	/ /	/ /

	Sample Number	Date	Time	Comp	Matrix	Station Location	Number of Cntnrs	Type of Containers	Type of Analysis: TPH-d (3510)	Type of Analysis: Filtered Metal (Zn, Ni)	Condition of Samples	Initial
(1)	MW-21	12/22/93	1040			AREA 2	2	litre ambers	X			
(1)	MW-21	12/22/93	1040			AREA 2	1	500mL Plastic		X	Preserved w/ HNO3	

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	12/23/93/1300		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Date/Time	Received by Lab: [signature] Pamela Falcon	Date/Time

Remarks: Standard Turnaround Time (2 weeks)
Use DHS LUFT detection limits for TPH-d.

COMPANY: RUST E&I
ADDRESS: 12 Metro Park Rd. Albany, N.Y.
PHONE: (518) 458-1313 FAX:

Inchcape Testing Services
Anametrix Laboratories

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

MR. ED ALUSOW
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9312250
Date Received : 12/21/93
Project ID : 02345-01983
Purchase Order: 29518

The following samples were received at Anametrix, Inc. for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9312250- 1	3:MW-1
9312250- 2	3:MW-7
9312250- 3	3:MW-6
9312250- 4	3:DUPX-1
9312250- 5	3:MW-18
9312250- 6	3:MW-19
9312250- 7	3:MW-20
9312250- 8	T.BLANK

This report consists of 44 pages not including the cover letter, and is organized in sections according to the specific Anametrix laboratory group or section which performed the analysis(es) and generated the data. The Report Summary that precedes each section will help you determine which Anametrix group is responsible for those test results, and will bear the signatures of the department supervisor and the chemist who have reviewed the analytical data. Please refer all questions to the department supervisor who signed the form.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234. A detailed list of the approved fields of testing can be obtained by calling our office, or the DHS Environmental Laboratory Accreditation Program at (415)540-2800.

If you have any further questions or comments on this report, please give us a call as soon as possible. Thank you for using Anametrix.

Sarah Schoen, Ph.D.
Laboratory Director

12-30-93
Date

ANAMETRIX REPORT DESCRIPTION
GCMS

Organic Analysis Data Sheets (OADS)

OADS forms contain tabulated results for target compounds. The OADS are grouped by method and, within each method, organized sequentially in order of increasing Anametrix ID number.

Tentatively Identified Compounds (TICs)

TIC forms contain tabulated results for non-target compounds detected in GC/MS analyses. TICs must be requested at the time samples are submitted at Anametrix. TIC forms immediately follow the OADS form for each sample. If TICs are requested but not found, then TIC forms will not be included with the report.

Surrogate Recovery Summary (SRS)

SRS forms contain quality assurance data. An SRS form will be printed for each method, if the method requires surrogate compounds. They will list surrogate percent recoveries for all samples and any method blanks. Any surrogate recovery outside the established limits will be flagged with an "*", and the total number of surrogates outside the limits will be listed in the column labelled "Total Out".

Matrix Spike Recovery Form (MSR)

MSR forms contain quality assurance data. They summarize percent recovery and relative percent difference information for matrix spikes and matrix spike duplicates. This information is a statement of both accuracy and precision. Any percent recovery or relative percent difference outside established limits will be flagged with an "*", and the total number outside the limits will be listed at the bottom of the page. Not all reports will contain an MSR form.

Qualifiers

Anametrix uses several data qualifiers (Q) in it's report forms. These qualifiers give additional information on the compounds reported. They should help a data reviewer to verify the integrity of the analytical results The following is a list of qualifiers and their meanings:

- U - Indicates that the compound was analyzed for, but was not detected at or above the specified reporting limit.
- B - Indicates that the compound was detected in the associated method blank.
- J - Indicates that the compound was detected at an amount below the specified reporting limit. Consequently, the amount should be considered an approximate value. Tentatively identified compounds will always have a "J" qualifier because they are not included in the instrument calibration.
- E - Indicates that the amount reported exceeded the linear range of the instrument calibration.
- D - Indicates that the compound was detected in an analysis performed at a secondary dilution.
- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. This is common in EPA Method 8270 soil analyses.

Absence of a qualifier indicates that the compound was detected at a concentration at or above the specified reporting limit.

REPORTING CONVENTIONS

- Due to a size limitation in our data processing step, only the first eight (8) characters of your project ID and sample ID will be printed on the report forms. However, the report cover letter and report summary pages display up to twenty (20) characters of your project and sample IDs.
- Amounts reported are gross values, i.e., not corrected for method blank contamination.

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. ED ALUSOW
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9312250
Date Received : 12/21/93
Project ID : 02345-01983
Purchase Order: 29518
Department : GCMS
Sub-Department: GCMS

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9312250- 1	3:MW-1	WATER	12/21/93	624
9312250- 2	3:MW-7	WATER	12/21/93	624
9312250- 3	3:MW-6	WATER	12/21/93	624
9312250- 4	3:DUPX-1	WATER	12/21/93	624
9312250- 5	3:MW-18	WATER	12/21/93	624
9312250- 6	3:MW-19	WATER	12/21/93	624
9312250- 7	3:MW-20	WATER	12/21/93	624
9312250- 8	T.BLANK	WATER	12/21/93	624
9312250- 1	3:MW-1	WATER	12/21/93	625
9312250- 3	3:MW-6	WATER	12/21/93	625
9312250- 4	3:DUPX-1	WATER	12/21/93	625
9312250- 6	3:MW-19	WATER	12/21/93	625

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. ED ALUSOW
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9312250
Date Received : 12/21/93
Project ID : 02345-01983
Purchase Order: 29518
Department : GCMS
Sub-Department: GCMS

QA/QC SUMMARY :

- No QA/QC problems.

Paul Sowar 12-30-93
Department Supervisor Date

Denise Powell 12-30 93
Chemist Date

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 624
ANAMETRIX, INC. (408)432-8192

Project ID : 02345-01
Sample ID : 3:MW-1
Matrix : WATER
Date Sampled :12/21/93
Date Analyzed :12/27/93
Instrument ID : MSD1

Anametrix ID : 9312250-01
Analyst : DF
Supervisor : PG

Dilution Factor : 1.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	10.	ND	U
75-01-4	Vinyl chloride	10.	3.	J
74-83-9	Bromomethane	10.	ND	U
75-00-3	Chloroethane	10.	ND	U
75-69-4	Trichlorofluoromethane	5.	ND	U
75-35-4	1,1-Dichloroethene	5.	ND	U
76-13-1	Trichlorotrifluoroethane	5.	ND	U
67-64-1	Acetone	20.	ND	U
75-15-0	Carbon disulfide	5.	ND	U
75-09-2	Methylene chloride	5.	ND	U
156-60-5	Trans-1,2-dichloroethene	5.	3.	J
75-34-3	1,1-Dichloroethane	5.	ND	U
156-59-2	Cis-1,2-dichloroethene	5.	3.	J
78-93-3	2-Butanone	20.	ND	U
67-66-3	Chloroform	5.	ND	U
71-55-6	1,1,1-Trichloroethane	5.	ND	U
56-23-5	Carbon tetrachloride	5.	ND	U
108-05-4	Vinyl acetate	10.	ND	U
71-43-2	Benzene	5.	ND	U
107-06-2	1,2-Dichloroethane	5.	ND	U
79-01-6	Trichloroethene	5.	ND	U
78-87-5	1,2-Dichloropropane	5.	ND	U
75-27-4	Bromodichloromethane	5.	ND	U
10061-01-5	Cis-1,3-dichloropropene	5.	ND	U
108-10-1	4-Methyl-2-pentanone	10.	ND	U
108-88-3	Toluene	5.	ND	U
10061-02-6	Trans-1,3-dichloropropene	5.	ND	U
79-00-5	1,1,2-Trichloroethane	5.	ND	U
127-18-4	Tetrachloroethene	5.	ND	U
591-78-6	2-Hexanone	10.	ND	U
124-48-1	Dibromochloromethane	5.	ND	U
108-90-7	Chlorobenzene	5.	7.	
100-41-4	Ethylbenzene	5.	ND	U
1330-20-7	Xylene (Total)	5.	2.	J
100-42-5	Styrene	5.	ND	U
75-25-2	Bromoform	5.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	ND	U
541-73-1	1,3-Dichlorobenzene	5.	3.	J
106-46-7	1,4-Dichlorobenzene	5.	17.	
95-50-1	1,2-Dichlorobenzene	5.	15.	

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 624
ANAMETRIX, INC. (408)432-8192

TENTATIVELY IDENTIFIED COMPOUNDS

Project ID : 02345-01
Sample ID : 3:MW-1
Matrix : WATER
Date Sampled :12/21/93
Date Analyzed :12/27/93
Instrument ID : MSD1

Anametrix ID : 9312250-01
Analyst : DF
Supervisor : FG

Dilution Factor : 1.0
Conc. Units : ug/L

	CAS NUMBER	COMPOUND NAME	REPORTING LIMIT	ESTIMATED CONC.	Q
1.	108-87-2	Cyclohexane, methyl-	0.	10.	J
2.	611-14-3	Benzene, 1-ethyl-2-methyl-	0.	10.	J
3.	135-98-8	Benzene, (1-methylpropyl)-	0.	10.	J
4.	27133-93-3	2,3-DIHYDRO-1-METHYLINDENE	0.	20.	J
5.	95-93-2	Benzene, 1,2,4,5-tetramethyl	0.	10.	J
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ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 624
ANAMETRIX, INC. (408)432-8192

Project ID : 02345-01
Sample ID : 3:MW-7
Matrix : WATER
Date Sampled :12/21/93
Date Analyzed :12/27/93
Instrument ID : MSD1

Anametrix ID : 9312250-02
Analyst : DP
Supervisor : PT

Dilution Factor : 1.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	10.	ND	U
75-01-4	Vinyl chloride	10.	ND	U
74-83-9	Bromomethane	10.	ND	U
75-00-3	Chloroethane	10.	ND	U
75-69-4	Trichlorofluoromethane	5.	ND	U
75-35-4	1,1-Dichloroethene	5.	ND	U
76-13-1	Trichlorotrifluoroethane	5.	ND	U
67-64-1	Acetone	20.	ND	U
75-15-0	Carbon disulfide	5.	ND	U
75-09-2	Methylene chloride	5.	ND	U
156-60-5	Trans-1,2-dichloroethene	5.	ND	U
75-34-3	1,1-Dichloroethane	5.	ND	U
156-59-2	Cis-1,2-dichloroethene	5.	ND	U
78-93-3	2-Butanone	20.	ND	U
67-66-3	Chloroform	5.	ND	U
71-55-6	1,1,1-Trichloroethane	5.	ND	U
56-23-5	Carbon tetrachloride	5.	ND	U
108-05-4	Vinyl acetate	10.	ND	U
71-43-2	Benzene	5.	ND	U
107-06-2	1,2-Dichloroethane	5.	ND	U
79-01-6	Trichloroethene	5.	ND	U
78-87-5	1,2-Dichloropropane	5.	ND	U
75-27-4	Bromodichloromethane	5.	ND	U
10061-01-5	Cis-1,3-dichloropropene	5.	ND	U
108-10-1	4-Methyl-2-pentanone	10.	ND	U
108-88-3	Toluene	5.	ND	U
10061-02-6	Trans-1,3-dichloropropene	5.	ND	U
79-00-5	1,1,2-Trichloroethane	5.	ND	U
127-18-4	Tetrachloroethene	5.	ND	U
591-78-6	2-Hexanone	10.	ND	U
124-48-1	Dibromochloromethane	5.	ND	U
108-90-7	Chlorobenzene	5.	ND	U
100-41-4	Ethylbenzene	5.	ND	U
1330-20-7	Xylene (Total)	5.	ND	U
100-42-5	Styrene	5.	ND	U
75-25-2	Bromoform	5.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	ND	U
541-73-1	1,3-Dichlorobenzene	5.	ND	U
106-46-7	1,4-Dichlorobenzene	5.	ND	U
95-50-1	1,2-Dichlorobenzene	5.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 624
ANAMETRIX, INC. (408)432-8192

Project ID	: 02345-01	Anametrix ID	: 9312250-03
Sample ID	: 3:MW-6	Analyst	: DF
Matrix	: WATER	Supervisor	:
Date Sampled	:12/21/93		
Date Analyzed	:12/27/93	Dilution Factor	: 1.0
Instrument ID	: MSD1	Conc. Units	: ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	10.	ND	U
75-01-4	Vinyl chloride	10.	ND	U
74-83-9	Bromomethane	10.	ND	U
75-00-3	Chloroethane	10.	ND	U
75-69-4	Trichlorofluoromethane	5.	ND	U
75-35-4	1,1-Dichloroethene	5.	ND	U
76-13-1	Trichlorotrifluoroethane	5.	ND	U
67-64-1	Acetone	20.	ND	U
75-15-0	Carbon disulfide	5.	ND	U
75-09-2	Methylene chloride	5.	ND	U
156-60-5	Trans-1,2-dichloroethene	5.	ND	U
75-34-3	1,1-Dichloroethane	5.	28.	
156-59-2	Cis-1,2-dichloroethene	5.	ND	U
78-93-3	2-Butanone	20.	ND	U
67-66-3	Chloroform	5.	ND	U
71-55-6	1,1,1-Trichloroethane	5.	3.	J
56-23-5	Carbon tetrachloride	5.	ND	U
108-05-4	Vinyl acetate	10.	ND	U
71-43-2	Benzene	5.	ND	U
107-06-2	1,2-Dichloroethane	5.	ND	U
79-01-6	Trichloroethene	5.	ND	U
78-87-5	1,2-Dichloropropane	5.	ND	U
75-27-4	Bromodichloromethane	5.	ND	U
10061-01-5	Cis-1,3-dichloropropene	5.	ND	U
108-10-1	4-Methyl-2-pentanone	10.	ND	U
108-88-3	Toluene	5.	ND	U
10061-02-6	Trans-1,3-dichloropropene	5.	ND	U
79-00-5	1,1,2-Trichloroethane	5.	ND	U
127-18-4	Tetrachloroethene	5.	ND	U
591-78-6	2-Hexanone	10.	ND	U
124-48-1	Dibromochloromethane	5.	ND	U
108-90-7	Chlorobenzene	5.	ND	U
100-41-4	Ethylbenzene	5.	ND	U
1330-20-7	Xylene (Total)	5.	ND	U
100-42-5	Styrene	5.	ND	U
75-25-2	Bromoform	5.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	ND	U
541-73-1	1,3-Dichlorobenzene	5.	ND	U
106-46-7	1,4-Dichlorobenzene	5.	ND	U
95-50-1	1,2-Dichlorobenzene	5.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 624
ANAMETRIX, INC. (408)432-8192

Project ID : 02345-01
Sample ID : 3:DUPX-1
Matrix : WATER
Date Sampled :12/21/93
Date Analyzed :12/27/93
Instrument ID : MSD1

Anametrix ID : 9312250-04
Analyst :
Supervisor :

Dilution Factor : 1.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	10.	ND	U
75-01-4	Vinyl chloride	10.	ND	U
74-83-9	Bromomethane	10.	ND	U
75-00-3	Chloroethane	10.	ND	U
75-69-4	Trichlorofluoromethane	5.	ND	U
75-35-4	1,1-Dichloroethene	5.	ND	U
76-13-1	Trichlorotrifluoroethane	5.	ND	U
67-64-1	Acetone	20.	ND	U
75-15-0	Carbon disulfide	5.	ND	U
75-09-2	Methylene chloride	5.	ND	U
156-60-5	Trans-1,2-dichloroethene	5.	ND	U
75-34-3	1,1-Dichloroethane	5.	27.	
156-59-2	Cis-1,2-dichloroethene	5.	ND	U
78-93-3	2-Butanone	20.	ND	U
67-66-3	Chloroform	5.	ND	U
71-55-6	1,1,1-Trichloroethane	5.	3.	J
56-23-5	Carbon tetrachloride	5.	ND	U
108-05-4	Vinyl acetate	10.	ND	U
71-43-2	Benzene	5.	ND	U
107-06-2	1,2-Dichloroethane	5.	ND	U
79-01-6	Trichloroethene	5.	ND	U
78-87-5	1,2-Dichloropropane	5.	ND	U
75-27-4	Bromodichloromethane	5.	ND	U
10061-01-5	Cis-1,3-dichloropropene	5.	ND	U
108-10-1	4-Methyl-2-pentanone	10.	ND	U
108-88-3	Toluene	5.	ND	U
10061-02-6	Trans-1,3-dichloropropene	5.	ND	U
79-00-5	1,1,2-Trichloroethane	5.	ND	U
127-18-4	Tetrachloroethene	5.	ND	U
591-78-6	2-Hexanone	10.	ND	U
124-48-1	Dibromochloromethane	5.	ND	U
108-90-7	Chlorobenzene	5.	ND	U
100-41-4	Ethylbenzene	5.	ND	U
1330-20-7	Xylene (Total)	5.	ND	U
100-42-5	Styrene	5.	ND	U
75-25-2	Bromoform	5.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	ND	U
541-73-1	1,3-Dichlorobenzene	5.	ND	U
106-46-7	1,4-Dichlorobenzene	5.	ND	U
95-50-1	1,2-Dichlorobenzene	5.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 624
ANAMETRIX, INC. (408)432-8192

Project ID : 02345-01
Sample ID : 3:MW-18
Matrix : WATER
Date Sampled :12/21/93
Date Analyzed :12/27/93
Instrument ID : MSD1

Anametrix ID : 9312250-05
Analyst : DP
Supervisor : [illegible]

Dilution Factor : 1.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	10.	ND	U
75-01-4	Vinyl chloride	10.	ND	U
74-83-9	Bromomethane	10.	ND	U
75-00-3	Chloroethane	10.	ND	U
75-69-4	Trichlorofluoromethane	5.	ND	U
75-35-4	1,1-Dichloroethene	5.	ND	U
76-13-1	Trichlorotrifluoroethane	5.	ND	U
67-64-1	Acetone	20.	ND	U
75-15-0	Carbon disulfide	5.	ND	U
75-09-2	Methylene chloride	5.	ND	U
156-60-5	Trans-1,2-dichloroethene	5.	ND	U
75-34-3	1,1-Dichloroethane	5.	ND	U
156-59-2	Cis-1,2-dichloroethene	5.	ND	U
78-93-3	2-Butanone	20.	ND	U
67-66-3	Chloroform	5.	ND	U
71-55-6	1,1,1-Trichloroethane	5.	ND	U
56-23-5	Carbon tetrachloride	5.	ND	U
108-05-4	Vinyl acetate	10.	ND	U
71-43-2	Benzene	5.	ND	U
107-06-2	1,2-Dichloroethane	5.	ND	U
79-01-6	Trichloroethene	5.	ND	U
78-87-5	1,2-Dichloropropane	5.	ND	U
75-27-4	Bromodichloromethane	5.	ND	U
10061-01-5	Cis-1,3-dichloropropene	5.	ND	U
108-10-1	4-Methyl-2-pentanone	10.	ND	U
108-88-3	Toluene	5.	ND	U
10061-02-6	Trans-1,3-dichloropropene	5.	ND	U
79-00-5	1,1,2-Trichloroethane	5.	ND	U
127-18-4	Tetrachloroethene	5.	ND	U
591-78-6	2-Hexanone	10.	ND	U
124-48-1	Dibromochloromethane	5.	ND	U
108-90-7	Chlorobenzene	5.	ND	U
100-41-4	Ethylbenzene	5.	ND	U
1330-20-7	Xylene (Total)	5.	ND	U
100-42-5	Styrene	5.	ND	U
75-25-2	Bromoform	5.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	ND	U
541-73-1	1,3-Dichlorobenzene	5.	ND	U
106-46-7	1,4-Dichlorobenzene	5.	ND	U
95-50-1	1,2-Dichlorobenzene	5.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 624
ANAMETRIX, INC. (408)432-8192

Project ID : 02345-01
Sample ID : 3:MW-19
Matrix : WATER
Date Sampled :12/21/93
Date Analyzed :12/27/93
Instrument ID : MSD1

Anametrix ID : 9312250-06
Analyst : M
Supervisor : [illegible]

Dilution Factor : 1.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	10.	ND	U
75-01-4	Vinyl chloride	10.	ND	U
74-83-9	Bromomethane	10.	ND	U
75-00-3	Chloroethane	10.	ND	U
75-69-4	Trichlorofluoromethane	5.	ND	U
75-35-4	1,1-Dichloroethene	5.	ND	U
76-13-1	Trichlorotrifluoroethane	5.	ND	U
67-64-1	Acetone	20.	ND	U
75-15-0	Carbon disulfide	5.	ND	U
75-09-2	Methylene chloride	5.	ND	U
156-60-5	Trans-1,2-dichloroethene	5.	ND	U
75-34-3	1,1-Dichloroethane	5.	ND	U
156-59-2	Cis-1,2-dichloroethene	5.	ND	U
78-93-3	2-Butanone	20.	ND	U
67-66-3	Chloroform	5.	ND	U
71-55-6	1,1,1-Trichloroethane	5.	ND	U
56-23-5	Carbon tetrachloride	5.	ND	U
108-05-4	Vinyl acetate	10.	ND	U
71-43-2	Benzene	5.	11.	
107-06-2	1,2-Dichloroethane	5.	ND	U
79-01-6	Trichloroethene	5.	ND	U
78-87-5	1,2-Dichloropropane	5.	ND	U
75-27-4	Bromodichloromethane	5.	ND	U
10061-01-5	Cis-1,3-dichloropropene	5.	ND	U
108-10-1	4-Methyl-2-pentanone	10.	ND	U
108-88-3	Toluene	5.	ND	U
10061-02-6	Trans-1,3-dichloropropene	5.	ND	U
79-00-5	1,1,2-Trichloroethane	5.	ND	U
127-18-4	Tetrachloroethene	5.	ND	U
591-78-6	2-Hexanone	10.	ND	U
124-48-1	Dibromochloromethane	5.	ND	U
108-90-7	Chlorobenzene	5.	58.	
100-41-4	Ethylbenzene	5.	ND	U
1330-20-7	Xylene (Total)	5.	4.	J
100-42-5	Styrene	5.	ND	U
75-25-2	Bromoform	5.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	ND	U
541-73-1	1,3-Dichlorobenzene	5.	3.	J
106-46-7	1,4-Dichlorobenzene	5.	23.	
95-50-1	1,2-Dichlorobenzene	5.	29.	

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 624
ANAMETRIX, INC. (408)432-8192

TENTATIVELY IDENTIFIED COMPOUNDS

Project ID : 02345-01
Sample ID : 3:MW-19
Matrix : WATER
Date Sampled :12/21/93
Date Analyzed :12/27/93
Instrument ID : MSD1

Anametrix ID : 9312250-06
Analyst : DP
Supervisor : [illegible]

Dilution Factor : 1.0
Conc. Units : ug/L

	CAS NUMBER	COMPOUND NAME	REPORTING LIMIT	ESTIMATED CONC.	Q
1.	625-27-4	2-Pentene, 2-methyl-	0.	20.	J
2.	108-87-2	Cyclohexane, methyl-	0.	30.	J
3.	611-15-4	Benzene, 1-ethenyl-2-methyl-	0.	30.	J
4.	2870-04-4	Benzene, 2-ethyl-1,3-dimethy	0.	20.	J
5.	1587-04-8	Benzene, 1-methyl-2-(2-prope	0.	30.	J
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ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 624
ANAMETRIX, INC. (408)432-8192

Project ID : 02345-01
Sample ID : 3:MW-20
Matrix : WATER
Date Sampled :12/21/93
Date Analyzed :12/27/93
Instrument ID : MSD1

Anametrix ID : 9312250-07
Analyst : DF
Supervisor : [illegible]
Dilution Factor : 1.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	10.	ND	U
75-01-4	Vinyl chloride	10.	ND	U
74-83-9	Bromomethane	10.	ND	U
75-00-3	Chloroethane	10.	ND	U
75-69-4	Trichlorofluoromethane	5.	ND	U
75-35-4	1,1-Dichloroethene	5.	ND	U
76-13-1	Trichlorotrifluoroethane	5.	ND	U
67-64-1	Acetone	20.	ND	U
75-15-0	Carbon disulfide	5.	ND	U
75-09-2	Methylene chloride	5.	ND	U
156-60-5	Trans-1,2-dichloroethene	5.	ND	U
75-34-3	1,1-Dichloroethane	5.	ND	U
156-59-2	Cis-1,2-dichloroethene	5.	ND	U
78-93-3	2-Butanone	20.	ND	U
67-66-3	Chloroform	5.	ND	U
71-55-6	1,1,1-Trichloroethane	5.	ND	U
56-23-5	Carbon tetrachloride	5.	ND	U
108-05-4	Vinyl acetate	10.	ND	U
71-43-2	Benzene	5.	ND	U
107-06-2	1,2-Dichloroethane	5.	ND	U
79-01-6	Trichloroethene	5.	ND	U
78-87-5	1,2-Dichloropropane	5.	ND	U
75-27-4	Bromodichloromethane	5.	ND	U
10061-01-5	Cis-1,3-dichloropropene	5.	ND	U
108-10-1	4-Methyl-2-pentanone	10.	ND	U
108-88-3	Toluene	5.	ND	U
10061-02-6	Trans-1,3-dichloropropene	5.	ND	U
79-00-5	1,1,2-Trichloroethane	5.	ND	U
127-18-4	Tetrachloroethene	5.	3.	J
591-78-6	2-Hexanone	10.	ND	U
124-48-1	Dibromochloromethane	5.	ND	U
108-90-7	Chlorobenzene	5.	ND	U
100-41-4	Ethylbenzene	5.	ND	U
1330-20-7	Xylene (Total)	5.	ND	U
100-42-5	Styrene	5.	ND	U
75-25-2	Bromoform	5.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	ND	U
541-73-1	1,3-Dichlorobenzene	5.	ND	U
106-46-7	1,4-Dichlorobenzene	5.	ND	U
95-50-1	1,2-Dichlorobenzene	5.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 624
ANAMETRIX, INC. (408)432-8192

Project ID : 02345-01
Sample ID : T.BLANK
Matrix : WATER
Date Sampled :12/21/93
Date Analyzed :12/27/93
Instrument ID : MSD1

Anametrix ID : 9312250-08
Analyst : DT
Supervisor : [illegible]

Dilution Factor : 1.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	10.	ND	U
75-01-4	Vinyl chloride	10.	ND	U
74-83-9	Bromomethane	10.	ND	U
75-00-3	Chloroethane	10.	ND	U
75-69-4	Trichlorofluoromethane	5.	ND	U
75-35-4	1,1-Dichloroethene	5.	ND	U
76-13-1	Trichlorotrifluoroethane	5.	ND	U
67-64-1	Acetone	20.	ND	U
75-15-0	Carbon disulfide	5.	ND	U
75-09-2	Methylene chloride	5.	ND	U
156-60-5	Trans-1,2-dichloroethene	5.	ND	U
75-34-3	1,1-Dichloroethane	5.	ND	U
156-59-2	Cis-1,2-dichloroethene	5.	ND	U
78-93-3	2-Butanone	20.	ND	U
67-66-3	Chloroform	5.	ND	U
71-55-6	1,1,1-Trichloroethane	5.	ND	U
56-23-5	Carbon tetrachloride	5.	ND	U
108-05-4	Vinyl acetate	10.	ND	U
71-43-2	Benzene	5.	ND	U
107-06-2	1,2-Dichloroethane	5.	ND	U
79-01-6	Trichloroethene	5.	ND	U
78-87-5	1,2-Dichloropropane	5.	ND	U
75-27-4	Bromodichloromethane	5.	ND	U
10061-01-5	Cis-1,3-dichloropropene	5.	ND	U
108-10-1	4-Methyl-2-pentanone	10.	ND	U
108-88-3	Toluene	5.	ND	U
10061-02-6	Trans-1,3-dichloropropene	5.	ND	U
79-00-5	1,1,2-Trichloroethane	5.	ND	U
127-18-4	Tetrachloroethene	5.	ND	U
591-78-6	2-Hexanone	10.	ND	U
124-48-1	Dibromochloromethane	5.	ND	U
108-90-7	Chlorobenzene	5.	ND	U
100-41-4	Ethylbenzene	5.	ND	U
1330-20-7	Xylene (Total)	5.	ND	U
100-42-5	Styrene	5.	ND	U
75-25-2	Bromoform	5.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	ND	U
541-73-1	1,3-Dichlorobenzene	5.	ND	U
106-46-7	1,4-Dichlorobenzene	5.	ND	U
95-50-1	1,2-Dichlorobenzene	5.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 624
ANAMETRIX, INC. (408)432-8192

Project ID :
Sample ID : VBLK1K
Matrix : WATER
Date Sampled : 0/ 0/ 0
Date Analyzed :12/27/93
Instrument ID : MSD1

Anametrix ID : BD2702A2
Analyst :
Supervisor :

Dilution Factor : 1.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	10.	ND	U
75-01-4	Vinyl chloride	10.	ND	U
74-83-9	Bromomethane	10.	ND	U
75-00-3	Chloroethane	10.	ND	U
75-69-4	Trichlorofluoromethane	5.	ND	U
75-35-4	1,1-Dichloroethene	5.	ND	U
76-13-1	Trichlorotrifluoroethane	5.	ND	U
67-64-1	Acetone	20.	ND	U
75-15-0	Carbon disulfide	5.	ND	U
75-09-2	Methylene chloride	5.	ND	U
156-60-5	Trans-1,2-dichloroethene	5.	ND	U
75-34-3	1,1-Dichloroethane	5.	ND	U
156-59-2	Cis-1,2-dichloroethene	5.	ND	U
78-93-3	2-Butanone	20.	ND	U
67-66-3	Chloroform	5.	ND	U
71-55-6	1,1,1-Trichloroethane	5.	ND	U
56-23-5	Carbon tetrachloride	5.	ND	U
108-05-4	Vinyl acetate	10.	ND	U
71-43-2	Benzene	5.	ND	U
107-06-2	1,2-Dichloroethane	5.	ND	U
79-01-6	Trichloroethene	5.	ND	U
78-87-5	1,2-Dichloropropane	5.	ND	U
75-27-4	Bromodichloromethane	5.	ND	U
10061-01-5	Cis-1,3-dichloropropene	5.	ND	U
108-10-1	4-Methyl-2-pentanone	10.	ND	U
108-88-3	Toluene	5.	ND	U
10061-02-6	Trans-1,3-dichloropropene	5.	ND	U
79-00-5	1,1,2-Trichloroethane	5.	ND	U
127-18-4	Tetrachloroethene	5.	ND	U
591-78-6	2-Hexanone	10.	ND	U
124-48-1	Dibromochloromethane	5.	ND	U
108-90-7	Chlorobenzene	5.	ND	U
100-41-4	Ethylbenzene	5.	ND	U
1330-20-7	Xylene (Total)	5.	ND	U
100-42-5	Styrene	5.	ND	U
75-25-2	Bromoform	5.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	ND	U
541-73-1	1,3-Dichlorobenzene	5.	ND	U
106-46-7	1,4-Dichlorobenzene	5.	ND	U
95-50-1	1,2-Dichlorobenzene	5.	ND	U

SURROGATE RECOVERY SUMMARY -- EPA METHOD 624
ANAMETRIX, INC. (408)432-8192

Project ID : 02345-01
Matrix : LIQUID

Anametrix ID : 9312250
Analyst : [illegible]
Supervisor :

	SAMPLE ID	SU1	SU2	SU3
1	VBLK1K	99	100	98
2	LCS1K	96	101	97
3	3:MW-7	95	102	96
4	3:MW-6	98	102	96
5	3:DUPX-1	97	102	96
6	3:MW-18	96	100	96
7	3:MW-20	99	101	97
8	T.BLANK	99	101	97
9	3:MW-1	99	101	99
10	3:MW-19	96	100	98
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

	QC LIMITS
SU1 = 1,2-Dichloroethane-d4	(75-113)
SU2 = Toluene-d8	(83-110)
SU3 = 1,4-Bromofluorobenzene	(82-114)

* Values outside of Anametrix QC limits

LABORATORY CONTROL SPIKE RECOVERY FORM --- EPA METHOD 624/8240
ANAMETRIX, INC. (408)432-8192

Project/Case	:	Anametrix ID	: MD2701A2
Matrix	: WATER	Analyst	: bf
Date Sampled	: 0/ 0/ 0	Supervisor	:
Date Analyzed	: 12/27/93	SDG/Batch	:
Instrument ID	: MSD1		

LCS1K

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	%REC LIMITS
1,1-Dichloroethene	50	0	50	100	72-145
Benzene	50	0	52	104	83-125
Trichloroethene	50	0	53	106	61-140
Toluene	50	0	51	102	82-123
Chlorobenzene	50	0	53	106	82-125

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 625
ANAMETRIX, INC. (408)432-8192

Project ID : 02345-01
Sample ID : 3:MW-1
Matrix : WATER
Date Sampled :12/21/93
Date Extracted :12/22/93
Amount Extracted : 1000.0 mL
Date Analyzed :12/28/93
Instrument ID : MSD4

Anametrix ID : 9312250-01
Analyst : [illegible]
Supervisor : [illegible]

Dilution Factor : 1.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
62-75-9	N-Nitrosodimethylamine	10.	ND	U
108-95-2	Phenol	10.	ND	U
4165-61-1	Aniline	10.	ND	U
111-44-4	bis(2-Chloroethyl)ether	10.	ND	U
95-57-8	2-Chlorophenol	10.	ND	U
541-73-1	1,3-Dichlorobenzene	10.	ND	U
106-46-7	1,4-Dichlorobenzene	10.	13.	
100-51-6	Benzyl Alcohol	10.	ND	U
95-48-7	2-Methylphenol	10.	ND	U
95-50-1	1,2-Dichlorobenzene	10.	11.	
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	ND	U
106-44-5	4-Methylphenol	10.	ND	U
621-64-7	N-Nitroso-di-n-propylamine	10.	ND	U
67-72-1	Hexachloroethane	10.	ND	U
98-95-3	Nitrobenzene	10.	ND	U
78-59-1	Isophorone	10.	ND	U
105-67-9	2,4-Dimethylphenol	10.	ND	U
88-75-5	2-Nitrophenol	10.	ND	U
65-85-0	Benzoic Acid	50.	ND	U
111-91-1	bis(2-Chloroethoxy)methane	10.	ND	U
120-83-2	2,4-Dichlorophenol	10.	ND	U
120-82-1	1,2,4-Trichlorobenzene	10.	ND	U
91-20-3	Naphthalene	10.	ND	U
106-47-8	4-Chloroaniline	10.	ND	U
87-68-3	Hexachlorobutadiene	10.	ND	U
59-50-7	4-Chloro-3-methylphenol	10.	ND	U
91-57-6	2-Methylnaphthalene	10.	ND	U
77-47-4	Hexachlorocyclopentadiene	10.	ND	U
88-06-2	2,4,6-Trichlorophenol	10.	ND	U
95-95-4	2,4,5-Trichlorophenol	50.	ND	U
91-58-7	2-Chloronaphthalene	10.	ND	U
88-74-4	2-Nitroaniline	50.	ND	U
131-11-3	Dimethylphthalate	10.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 625
ANAMETRIX, INC. (408)432-8192

Project ID : 02345-01
Sample ID : 3:MW-1
Matrix : WATER
Date Sampled :12/21/93
Date Extracted :12/22/93
Amount Extracted : 1000.0 mL
Date Analyzed :12/28/93
Instrument ID : MSD4

Anametrix ID : 9312250-01
Analyst : LA
Supervisor : [illegible]

Dilution Factor : 1.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
606-20-2	2,6-Dinitrotoluene	10.	ND	U
208-96-8	Acenaphthylene	10.	ND	U
99-09-2	3-Nitroaniline	50.	ND	U
83-32-9	Acenaphthene	10.	ND	U
51-28-5	2,4-Dinitrophenol	50.	ND	U
100-02-7	4-Nitrophenol	50.	ND	U
132-64-9	Dibenzofuran	10.	ND	U
121-14-2	2,4-Dinitrotoluene	10.	ND	U
84-66-2	Diethylphthalate	10.	ND	U
7005-72-3	4-Chlorophenyl-phenylether	10.	ND	U
86-73-7	Fluorene	10.	ND	U
100-01-6	4-Nitroaniline	50.	ND	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	ND	U
86-30-6	N-Nitrosodiphenylamine (1)	10.	ND	U
103-33-3	Azobenzene	10.	ND	U
101-55-3	4-Bromophenyl-phenylether	10.	ND	U
118-74-1	Hexachlorobenzene	10.	ND	U
87-86-5	Pentachlorophenol	50.	ND	U
85-01-8	Phenanthrene	10.	ND	U
120-12-7	Anthracene	10.	ND	U
84-74-2	Di-n-butylphthalate	10.	ND	U
206-44-0	Fluoranthene	10.	ND	U
92-87-5	Benzidine	10.	ND	U
129-00-0	Pyrene	10.	ND	U
85-68-7	Butylbenzylphthalate	10.	ND	U
117-81-7	bis(2-Ethylhexyl)phthalate	10.	5.	J
91-94-1	3,3'-Dichlorobenzidine	20.	ND	U
56-55-3	Benzo(a)anthracene	10.	ND	U
218-01-9	Chrysene	10.	ND	U
117-84-0	Di-n-octylphthalate	10.	ND	U
205-99-2	Benzo(b)fluoranthene	10.	ND	U
207-08-9	Benzo(k)fluoranthene	10.	ND	U
50-32-8	Benzo(a)pyrene	10.	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	ND	U
53-70-3	Dibenz(a,h)anthracene	10.	ND	U
191-24-2	Benzo(g,h,i)perylene	10.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 625
ANAMETRIX, INC. (408)432-8192

Project ID : 02345-01
Sample ID : 3:MW-6
Matrix : WATER
Date Sampled :12/21/93
Date Extracted :12/22/93
Amount Extracted : 1000.0 mL
Date Analyzed :12/28/93
Instrument ID : MSD4

Anametrix ID : 9312250-03
Analyst : LA
Supervisor : PG

Dilution Factor : 1.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
62-75-9	N-Nitrosodimethylamine	10.	ND	U
108-95-2	Phenol	10.	ND	U
4165-61-1	Aniline	10.	ND	U
111-44-4	bis(2-Chloroethyl)ether	10.	ND	U
95-57-8	2-Chlorophenol	10.	ND	U
541-73-1	1,3-Dichlorobenzene	10.	ND	U
106-46-7	1,4-Dichlorobenzene	10.	ND	U
100-51-6	Benzyl Alcohol	10.	ND	U
95-48-7	2-Methylphenol	10.	ND	U
95-50-1	1,2-Dichlorobenzene	10.	ND	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	ND	U
106-44-5	4-Methylphenol	10.	ND	U
621-64-7	N-Nitroso-di-n-propylamine	10.	ND	U
67-72-1	Hexachloroethane	10.	ND	U
98-95-3	Nitrobenzene	10.	ND	U
78-59-1	Isophorone	10.	ND	U
105-67-9	2,4-Dimethylphenol	10.	ND	U
88-75-5	2-Nitrophenol	10.	ND	U
65-85-0	Benzoic Acid	50.	ND	U
111-91-1	bis(2-Chloroethoxy)methane	10.	ND	U
120-83-2	2,4-Dichlorophenol	10.	ND	U
120-82-1	1,2,4-Trichlorobenzene	10.	ND	U
91-20-3	Naphthalene	10.	ND	U
106-47-8	4-Chloroaniline	10.	ND	U
87-68-3	Hexachlorobutadiene	10.	ND	U
59-50-7	4-Chloro-3-methylphenol	10.	ND	U
91-57-6	2-Methylnaphthalene	10.	ND	U
77-47-4	Hexachlorocyclopentadiene	10.	ND	U
88-06-2	2,4,6-Trichlorophenol	10.	ND	U
95-95-4	2,4,5-Trichlorophenol	50.	ND	U
91-58-7	2-Chloronaphthalene	10.	ND	U
88-74-4	2-Nitroaniline	50.	ND	U
131-11-3	Dimethylphthalate	10.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 625
ANAMETRIX, INC. (408)432-8192

Project ID : 02345-01
Sample ID : 3:MW-6
Matrix : WATER
Date Sampled :12/21/93
Date Extracted :12/22/93
Amount Extracted : 1000.0 mL
Date Analyzed :12/28/93
Instrument ID : MSD4

Anametrix ID : 9312250-03
Analyst :
Supervisor :

Dilution Factor : 1.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
606-20-2	2,6-Dinitrotoluene	10.	ND	U
208-96-8	Acenaphthylene	10.	ND	U
99-09-2	3-Nitroaniline	50.	ND	U
83-32-9	Acenaphthene	10.	ND	U
51-28-5	2,4-Dinitrophenol	50.	ND	U
100-02-7	4-Nitrophenol	50.	ND	U
132-64-9	Dibenzofuran	10.	ND	U
121-14-2	2,4-Dinitrotoluene	10.	ND	U
84-66-2	Diethylphthalate	10.	ND	U
7005-72-3	4-Chlorophenyl-phenylether	10.	ND	U
86-73-7	Fluorene	10.	ND	U
100-01-6	4-Nitroaniline	50.	ND	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	ND	U
86-30-6	N-Nitrosodiphenylamine (1)	10.	ND	U
103-33-3	Azobenzene	10.	ND	U
101-55-3	4-Bromophenyl-phenylether	10.	ND	U
118-74-1	Hexachlorobenzene	10.	ND	U
87-86-5	Pentachlorophenol	50.	ND	U
85-01-8	Phenanthrene	10.	ND	U
120-12-7	Anthracene	10.	ND	U
84-74-2	Di-n-butylphthalate	10.	ND	U
206-44-0	Fluoranthene	10.	ND	U
92-87-5	Benzidine	10.	ND	U
129-00-0	Pyrene	10.	ND	U
85-68-7	Butylbenzylphthalate	10.	ND	U
117-81-7	bis(2-Ethylhexyl)phthalate	10.	7.	J
91-94-1	3,3'-Dichlorobenzidine	20.	ND	U
56-55-3	Benzo(a)anthracene	10.	ND	U
218-01-9	Chrysene	10.	ND	U
117-84-0	Di-n-octylphthalate	10.	ND	U
205-99-2	Benzo(b)fluoranthene	10.	ND	U
207-08-9	Benzo(k)fluoranthene	10.	ND	U
50-32-8	Benzo(a)pyrene	10.	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	ND	U
53-70-3	Dibenz(a,h)anthracene	10.	ND	U
191-24-2	Benzo(g,h,i)perylene	10.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 625
ANAMETRIX, INC. (408)432-8192

Project ID : 02345-01
Sample ID : 3:DUPX-1
Matrix : WATER
Date Sampled :12/21/93
Date Extracted :12/22/93
Amount Extracted : 1000.0 mL
Date Analyzed :12/29/93
Instrument ID : MSD3

Anametrix ID : 9312250-04
Analyst :
Supervisor :

Dilution Factor : 1.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
62-75-9	N-Nitrosodimethylamine	10.	ND	U
108-95-2	Phenol	10.	ND	U
4165-61-1	Aniline	10.	ND	U
111-44-4	bis(2-Chloroethyl)ether	10.	ND	U
95-57-8	2-Chlorophenol	10.	ND	U
541-73-1	1,3-Dichlorobenzene	10.	ND	U
106-46-7	1,4-Dichlorobenzene	10.	ND	U
100-51-6	Benzyl Alcohol	10.	ND	U
95-48-7	2-Methylphenol	10.	ND	U
95-50-1	1,2-Dichlorobenzene	10.	ND	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	ND	U
106-44-5	4-Methylphenol	10.	ND	U
621-64-7	N-Nitroso-di-n-propylamine	10.	ND	U
67-72-1	Hexachloroethane	10.	ND	U
98-95-3	Nitrobenzene	10.	ND	U
78-59-1	Isophorone	10.	ND	U
105-67-9	2,4-Dimethylphenol	10.	ND	U
88-75-5	2-Nitrophenol	10.	ND	U
65-85-0	Benzoic Acid	50.	ND	U
111-91-1	bis(2-Chloroethoxy)methane	10.	ND	U
120-83-2	2,4-Dichlorophenol	10.	ND	U
120-82-1	1,2,4-Trichlorobenzene	10.	ND	U
91-20-3	Naphthalene	10.	ND	U
106-47-8	4-Chloroaniline	10.	ND	U
87-68-3	Hexachlorobutadiene	10.	ND	U
59-50-7	4-Chloro-3-methylphenol	10.	ND	U
91-57-6	2-Methylnaphthalene	10.	ND	U
77-47-4	Hexachlorocyclopentadiene	10.	ND	U
88-06-2	2,4,6-Trichlorophenol	10.	ND	U
95-95-4	2,4,5-Trichlorophenol	50.	ND	U
91-58-7	2-Chloronaphthalene	10.	ND	U
88-74-4	2-Nitroaniline	50.	ND	U
131-11-3	Dimethylphthalate	10.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 625
ANAMETRIX, INC. (408)432-8192

Project ID : 02345-01
Sample ID : 3:DUPX-1
Matrix : WATER
Date Sampled :12/21/93
Date Extracted :12/22/93
Amount Extracted : 1000.0 mL
Date Analyzed :12/29/93
Instrument ID : MSD3

Anametrix ID : 9312250-04
Analyst :
Supervisor :

Dilution Factor : 1.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
606-20-2	2,6-Dinitrotoluene	10.	ND	U
208-96-8	Acenaphthylene	10.	ND	U
99-09-2	3-Nitroaniline	50.	ND	U
83-32-9	Acenaphthene	10.	ND	U
51-28-5	2,4-Dinitrophenol	50.	ND	U
100-02-7	4-Nitrophenol	50.	ND	U
132-64-9	Dibenzofuran	10.	ND	U
121-14-2	2,4-Dinitrotoluene	10.	ND	U
84-66-2	Diethylphthalate	10.	ND	U
7005-72-3	4-Chlorophenyl-phenylether	10.	ND	U
86-73-7	Fluorene	10.	ND	U
100-01-6	4-Nitroaniline	50.	ND	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	ND	U
86-30-6	N-Nitrosodiphenylamine (1)	10.	ND	U
103-33-3	Azobenzene	10.	ND	U
101-55-3	4-Bromophenyl-phenylether	10.	ND	U
118-74-1	Hexachlorobenzene	10.	ND	U
87-86-5	Pentachlorophenol	50.	ND	U
85-01-8	Phenanthrene	10.	ND	U
120-12-7	Anthracene	10.	ND	U
84-74-2	Di-n-butylphthalate	10.	ND	U
206-44-0	Fluoranthene	10.	ND	U
92-87-5	Benzidine	10.	ND	U
129-00-0	Pyrene	10.	ND	U
85-68-7	Butylbenzylphthalate	10.	ND	U
117-81-7	bis(2-Ethylhexyl)phthalate	10.	ND	U
91-94-1	3,3'-Dichlorobenzidine	20.	ND	U
56-55-3	Benzo(a)anthracene	10.	ND	U
218-01-9	Chrysene	10.	ND	U
117-84-0	Di-n-octylphthalate	10.	ND	U
205-99-2	Benzo(b)fluoranthene	10.	ND	U
207-08-9	Benzo(k)fluoranthene	10.	ND	U
50-32-8	Benzo(a)pyrene	10.	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	ND	U
53-70-3	Dibenz(a,h)anthracene	10.	ND	U
191-24-2	Benzo(g,h,i)perylene	10.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 625
ANAMETRIX, INC. (408)432-8192

Project ID : 02345-01
Sample ID : 3:MW-19
Matrix : WATER
Date Sampled :12/21/93
Date Extracted :12/22/93
Amount Extracted : 1000.0 mL
Date Analyzed :12/30/93
Instrument ID : MSD3

Anametrix ID : 9312250-06
Analyst : [illegible]
Supervisor : [illegible]

Dilution Factor : 1.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
62-75-9	N-Nitrosodimethylamine	10.	ND	U
108-95-2	Phenol	10.	ND	U
4165-61-1	Aniline	10.	ND	U
111-44-4	bis(2-Chloroethyl)ether	10.	ND	U
95-57-8	2-Chlorophenol	10.	ND	U
541-73-1	1,3-Dichlorobenzene	10.	ND	U
106-46-7	1,4-Dichlorobenzene	10.	17.	
100-51-6	Benzyl Alcohol	10.	ND	U
95-48-7	2-Methylphenol	10.	ND	U
95-50-1	1,2-Dichlorobenzene	10.	19.	
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	ND	U
106-44-5	4-Methylphenol	10.	ND	U
621-64-7	N-Nitroso-di-n-propylamine	10.	ND	U
67-72-1	Hexachloroethane	10.	ND	U
98-95-3	Nitrobenzene	10.	ND	U
78-59-1	Isophorone	10.	ND	U
105-67-9	2,4-Dimethylphenol	10.	ND	U
88-75-5	2-Nitrophenol	10.	ND	U
65-85-0	Benzoic Acid	50.	ND	U
111-91-1	bis(2-Chloroethoxy)methane	10.	ND	U
120-83-2	2,4-Dichlorophenol	10.	ND	U
120-82-1	1,2,4-Trichlorobenzene	10.	ND	U
91-20-3	Naphthalene	10.	ND	U
106-47-8	4-Chloroaniline	10.	ND	U
87-68-3	Hexachlorobutadiene	10.	ND	U
59-50-7	4-Chloro-3-methylphenol	10.	ND	U
91-57-6	2-Methylnaphthalene	10.	36.	
77-47-4	Hexachlorocyclopentadiene	10.	ND	U
88-06-2	2,4,6-Trichlorophenol	10.	ND	U
95-95-4	2,4,5-Trichlorophenol	50.	ND	U
91-58-7	2-Chloronaphthalene	10.	ND	U
88-74-4	2-Nitroaniline	50.	ND	U
131-11-3	Dimethylphthalate	10.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 625
ANAMETRIX, INC. (408)432-8192

Project ID : 02345-01
Sample ID : 3:MW-19
Matrix : WATER
Date Sampled :12/21/93
Date Extracted :12/22/93
Amount Extracted : 1000.0 mL
Date Analyzed :12/30/93
Instrument ID : MSD3

Anametrix ID : 9312250-06
Analyst : [illegible]
Supervisor : [illegible]

Dilution Factor : 1.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
606-20-2	2,6-Dinitrotoluene	10.	ND	U
208-96-8	Acenaphthylene	10.	ND	U
99-09-2	3-Nitroaniline	50.	ND	U
83-32-9	Acenaphthene	10.	ND	U
51-28-5	2,4-Dinitrophenol	50.	ND	U
100-02-7	4-Nitrophenol	50.	ND	U
132-64-9	Dibenzofuran	10.	ND	U
121-14-2	2,4-Dinitrotoluene	10.	ND	U
84-66-2	Diethylphthalate	10.	ND	U
7005-72-3	4-Chlorophenyl-phenylether	10.	ND	U
86-73-7	Fluorene	10.	ND	U
100-01-6	4-Nitroaniline	50.	ND	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	ND	U
86-30-6	N-Nitrosodiphenylamine (1)	10.	ND	U
103-33-3	Azobenzene	10.	ND	U
101-55-3	4-Bromophenyl-phenylether	10.	ND	U
118-74-1	Hexachlorobenzene	10.	ND	U
87-86-5	Pentachlorophenol	50.	ND	U
85-01-8	Phenanthrene	10.	4.	J
120-12-7	Anthracene	10.	ND	U
84-74-2	Di-n-butylphthalate	10.	ND	U
206-44-0	Fluoranthene	10.	ND	U
92-87-5	Benzidine	10.	ND	U
129-00-0	Pyrene	10.	ND	U
85-68-7	Butylbenzylphthalate	10.	ND	U
117-81-7	bis(2-Ethylhexyl)phthalate	10.	5.	J
91-94-1	3,3'-Dichlorobenzidine	20.	ND	U
56-55-3	Benzo(a)anthracene	10.	ND	U
218-01-9	Chrysene	10.	ND	U
117-84-0	Di-n-octylphthalate	10.	ND	U
205-99-2	Benzo(b)fluoranthene	10.	ND	U
207-08-9	Benzo(k)fluoranthene	10.	ND	U
50-32-8	Benzo(a)pyrene	10.	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	ND	U
53-70-3	Dibenz(a,h)anthracene	10.	ND	U
191-24-2	Benzo(g,h,i)perylene	10.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 625
ANAMETRIX, INC. (408)432-8192

Project ID :
Sample ID : SBLK4Z
Matrix : WATER
Date Sampled : 0/ 0/ 0
Date Extracted :12/22/93
Amount Extracted : 1000.0 mL
Date Analyzed :12/27/93
Instrument ID : MSD4

Anametrix ID : BD2212B1
Analyst :
Supervisor :

Dilution Factor : 1.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
62-75-9	N-Nitrosodimethylamine	10.	ND	U
108-95-2	Phenol	10.	ND	U
4165-61-1	Aniline	10.	ND	U
111-44-4	bis(2-Chloroethyl)ether	10.	ND	U
95-57-8	2-Chlorophenol	10.	ND	U
541-73-1	1,3-Dichlorobenzene	10.	ND	U
106-46-7	1,4-Dichlorobenzene	10.	ND	U
100-51-6	Benzyl Alcohol	10.	ND	U
95-48-7	2-Methylphenol	10.	ND	U
95-50-1	1,2-Dichlorobenzene	10.	ND	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	ND	U
106-44-5	4-Methylphenol	10.	ND	U
621-64-7	N-Nitroso-di-n-propylamine	10.	ND	U
67-72-1	Hexachloroethane	10.	ND	U
98-95-3	Nitrobenzene	10.	ND	U
78-59-1	Isophorone	10.	ND	U
105-67-9	2,4-Dimethylphenol	10.	ND	U
88-75-5	2-Nitrophenol	10.	ND	U
65-85-0	Benzoic Acid	50.	ND	U
111-91-1	bis(2-Chloroethoxy)methane	10.	ND	U
120-83-2	2,4-Dichlorophenol	10.	ND	U
120-82-1	1,2,4-Trichlorobenzene	10.	ND	U
91-20-3	Naphthalene	10.	ND	U
106-47-8	4-Chloroaniline	10.	ND	U
87-68-3	Hexachlorobutadiene	10.	ND	U
59-50-7	4-Chloro-3-methylphenol	10.	ND	U
91-57-6	2-Methylnaphthalene	10.	ND	U
77-47-4	Hexachlorocyclopentadiene	10.	ND	U
88-06-2	2,4,6-Trichlorophenol	10.	ND	U
95-95-4	2,4,5-Trichlorophenol	50.	ND	U
91-58-7	2-Chloronaphthalene	10.	ND	U
88-74-4	2-Nitroaniline	50.	ND	U
131-11-3	Dimethylphthalate	10.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 625
ANAMETRIX, INC. (408)432-8192

Project ID :
Sample ID : SBLK4Z
Matrix : WATER
Date Sampled : 0/ 0/ 0
Date Extracted :12/22/93
Amount Extracted : 1000.0 mL
Date Analyzed :12/27/93
Instrument ID : MSD4

Anametrix ID : BD2212B1
Analyst :
Supervisor :

Dilution Factor : 1.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
606-20-2	2,6-Dinitrotoluene	10.	ND	U
208-96-8	Acenaphthylene	10.	ND	U
99-09-2	3-Nitroaniline	50.	ND	U
83-32-9	Acenaphthene	10.	ND	U
51-28-5	2,4-Dinitrophenol	50.	ND	U
100-02-7	4-Nitrophenol	50.	ND	U
132-64-9	Dibenzofuran	10.	ND	U
121-14-2	2,4-Dinitrotoluene	10.	ND	U
84-66-2	Diethylphthalate	10.	ND	U
7005-72-3	4-Chlorophenyl-phenylether	10.	ND	U
86-73-7	Fluorene	10.	ND	U
100-01-6	4-Nitroaniline	50.	ND	U
534-52-1	4,6-Dinitro-2-methylphenol	50.	ND	U
86-30-6	N-Nitrosodiphenylamine (1)	10.	ND	U
103-33-3	Azobenzene	10.	ND	U
101-55-3	4-Bromophenyl-phenylether	10.	ND	U
118-74-1	Hexachlorobenzene	10.	ND	U
87-86-5	Pentachlorophenol	50.	ND	U
85-01-8	Phenanthrene	10.	ND	U
120-12-7	Anthracene	10.	ND	U
84-74-2	Di-n-butylphthalate	10.	ND	U
206-44-0	Fluoranthene	10.	ND	U
92-87-5	Benzidine	10.	ND	U
129-00-0	Pyrene	10.	ND	U
85-68-7	Butylbenzylphthalate	10.	ND	U
117-81-7	bis(2-Ethylhexyl)phthalate	10.	ND	U
91-94-1	3,3'-Dichlorobenzidine	20.	ND	U
56-55-3	Benzo(a)anthracene	10.	ND	U
218-01-9	Chrysene	10.	ND	U
117-84-0	Di-n-octylphthalate	10.	ND	U
205-99-2	Benzo(b)fluoranthene	10.	ND	U
207-08-9	Benzo(k)fluoranthene	10.	ND	U
50-32-8	Benzo(a)pyrene	10.	ND	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	ND	U
53-70-3	Dibenz(a,h)anthracene	10.	ND	U
191-24-2	Benzo(g,h,i)perylene	10.	ND	U

SURROGATE RECOVERY SUMMARY -- EPA METHOD 625
ANAMETRIX, INC. (408)432-8192

Project ID : 02345-01
Matrix : LIQUID

Anametrix ID : 9312250
Analyst : [illegible]
Supervisor : [illegible]

	SAMPLE ID	SU1	SU2	SU3	SU4	SU5	SU6
1	SBLK4Z	52	56	53	53	55	64
2	LCS4Z	44	50	48	49	59	70
3	LCSD4Z	55	59	57	54	58	64
4	3:MW-1	60	73	81	80	73	61
5	3:MW-6	71	81	79	83	90	90
6							
7							
8							
9							
10							
11							
12							
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14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

	QC LIMITS
SU1 = 2-Fluorophenol	(21-100)
SU2 = Phenol-d5	(10- 94)
SU3 = Nitrobenzene-d5	(35-114)
SU4 = 2-Fluorobiphenyl	(43-116)
SU5 = 2,4,6-Tribromophenol	(10-123)
SU6 = Terphenyl-d14	(33-141)

* Values outside of Anametrix QC limits

SURROGATE RECOVERY SUMMARY -- EPA METHOD 625
ANAMETRIX, INC. (408)432-8192

Project ID : 02345-01
Matrix : LIQUID

Anametrix ID : 9312250
Analyst :
Supervisor :

	SAMPLE ID	SU1	SU2	SU3	SU4	SU5	SU6
1	3:DUPX-1	55	63	63	63	83	80
2	3:MW-19	70	77	82	73	82	51
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
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14							
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19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

	QC LIMITS
SU1 = 2-Fluorophenol	(21-100)
SU2 = Phenol-d5	(10- 94)
SU3 = Nitrobenzene-d5	(35-114)
SU4 = 2-Fluorobiphenyl	(43-116)
SU5 = 2,4,6-Tribromophenol	(10-123)
SU6 = Terphenyl-d14	(33-141)

* Values outside of Anametrix QC limits

LABORATORY CONTROL SPIKE RECOVERY FORM --- EPA METHOD 625
ANAMETRIX, INC. (408)432-8192

Project/Case	:	Anametrix ID	: MD2212B1 & ND2212B1
Matrix	: WATER	Analyst	:
Date Sampled	: 00/00/00	Supervisor	:
Date Extracted	: 12/22/93	SDG/Batch	:
Date Analyzed	: 12/27/93		
Instrument ID	: MSD4	Sample I.D.	: LCS4Z & LCSD4Z

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	%REC LIMITS
Phenol	75	0	36	48	12-110
2-Chlorophenol	75	0	35	47	27-123
1,4-Dichlorobenzene	50	0	22	44	36-97
N-nitroso-di-n-propylamine	50	0	25	50	41-116
1,2,4-Trichlorobenzene	50	0	22	44	39-98
4-Chloro-3-methylphenol	75	0	38	51	23-97
Acenaphthene	50	0	24	48	46-118
4-Nitrophenol	75	0	46	61	10-80
2,4-Dinitrotoluene	50	0	30	60	24-96
Pentachlorophenol	75	0	40	53	10-103
Pyrene	50	0	32	64	26-127

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD PERCENT RECOVERY	% RPD	%RPD LIMITS
Phenol	75	45	60	-22	25
2-Chlorophenol	75	44	59	-23	25
1,4-Dichlorobenzene	50	27	54	-15	25
N-nitroso-di-n-propylamine	50	28	56	-12	25
1,2,4-Trichlorobenzene	50	27	54	-20	25
4-Chloro-3-methylphenol	75	45	60	-22	25
Acenaphthene	50	29	58	-14	25
4-Nitrophenol	75	46	61	0	25
2,4-Dinitroluene	50	29	58	3	25
Pentachlorophenol	75	46	61	-17	25
Pyrene	50	32	64	0	25

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. ED ALUSOW
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9312250
Date Received : 12/21/93
Project ID : 02345-01983
Purchase Order: 29518
Department : GC
Sub-Department: PEST

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9312250- 1	3:MW-1	WATER	12/21/93	608 PCB
9312250- 2	3:MW-7	WATER	12/21/93	608 PCB
9312250- 3	3:MW-6	WATER	12/21/93	608 PCB
9312250- 4	3:DUPX-1	WATER	12/21/93	608 PCB
9312250- 5	3:MW-18	WATER	12/21/93	608 PCB
9312250- 6	3:MW-19	WATER	12/21/93	608 PCB
9312250- 7	3:MW-20	WATER	12/21/93	608 PCB

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. ED ALUSOW
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9312250
Date Received : 12/21/93
Project ID : 02345-01983
Purchase Order: 29518
Department : GC
Sub-Department: PEST

QA/QC SUMMARY :

- No QA/QC problems.

Department Supervisor 12/30/93 Date

Chemist 12-30-93 Date

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 608PCB
ANAMETRIX, INC. (408) 432-8192

Project ID	: 02345-01983	Anametrix ID	: 9312250-01
Sample ID	: 3:MW-1	Analyst	: D.H.
Matrix	: WATER	Supervisor	: STR
Date Sampled	: 12/21/93	Volume ext.	: 1000 mL
Date Extracted	: 12/23/93	pH	: N/A
Date Analyzed	: 12/30/93	Final Vol.	: 10000 uL
Instrument ID	: HP22	Inj. Vol.	: 1 ul
Dilution	: 10		

CAS No.	COMPOUND NAME	REPORTING LIMIT (ug/L)	AMOUNT FOUND (ug/L)
12674-11-2	Aroclor 1016	10	ND
11104-28-2	Aroclor 1221	20	ND
11141-16-5	Aroclor 1232	10	ND
53469-21-9	Aroclor 1242	10	ND
12672-29-6	Aroclor 1248	10	ND
11097-69-1	Aroclor 1254	10	ND
11096-82-5	Aroclor 1260	10	23
	SURROGATE	PERCENT RECOVERY	PERCENT RECOVERY LIMITS
877-09-8	Tetrachloro-m-xylene	77	30-130
2051-24-3	Decachlorobiphenyl	72	50-118

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 608PCB
ANAMETRIX, INC. (408) 432-8192

Project ID	: 02345-01983	Anametrix ID	: 9312250-02
Sample ID	: 3:MW-7	Analyst	: B.H.
Matrix	: WATER	Supervisor	:
Date Sampled	: 12/21/93	Volume ext.	: 1000 mL
Date Extracted	: 12/23/93	pH	: N/A
Date Analyzed	: 12/29/93	Final Vol.	: 10000 uL
Instrument ID	: HP22	Inj. Vol.	: 1 ul
Dilution	: NONE		

CAS No.	COMPOUND NAME	REPORTING LIMIT (ug/L)	AMOUNT FOUND (ug/L)
12674-11-2	Aroclor 1016	1.0	ND
11104-28-2	Aroclor 1221	2.0	ND
11141-16-5	Aroclor 1232	1.0	ND
53469-21-9	Aroclor 1242	1.0	ND
12672-29-6	Aroclor 1248	1.0	ND
11097-69-1	Aroclor 1254	1.0	ND
11096-82-5	Aroclor 1260	1.0	ND
	SURROGATE	PERCENT RECOVERY	PERCENT RECOVERY LIMITS
877-09-8	Tetrachloro-m-xylene	88	30-130
2051-24-3	Decachlorobiphenyl	63	50-118

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 608PCB
ANAMETRIX, INC. (408) 432-8192

Project ID	: 02345-01983	Anametrix ID	: 9312250-03
Sample ID	: 3:MW-6	Analyst	: D.H.
Matrix	: WATER	Supervisor	: SM
Date Sampled	: 12/21/93	Volume ext.	: 1000 mL
Date Extracted	: 12/23/93	pH	: N/A
Date Analyzed	: 12/29/93	Final Vol.	: 10000 uL
Instrument ID	: HP22	Inj. Vol.	: 1 ul
Dilution	: NONE		

CAS No.	COMPOUND NAME	REPORTING LIMIT (ug/L)	AMOUNT FOUND (ug/L)
12674-11-2	Aroclor 1016	1.0	ND
11104-28-2	Aroclor 1221	2.0	ND
11141-16-5	Aroclor 1232	1.0	ND
53469-21-9	Aroclor 1242	1.0	ND
12672-29-6	Aroclor 1248	1.0	ND
11097-69-1	Aroclor 1254	1.0	ND
11096-82-5	Aroclor 1260	1.0	ND
	SURROGATE	PERCENT RECOVERY	PERCENT RECOVERY LIMITS
877-09-8	Tetrachloro-m-xylene	80	30-130
2051-24-3	Decachlorobiphenyl	81	50-118

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 608PCB
ANAMETRIX, INC. (408) 432-8192

Project ID	: 02345-01983	Anametrix ID	: 9312250-04
Sample ID	: 3:DUP X-1	Analyst	: D.H.
Matrix	: WATER	Supervisor	: SPR
Date Sampled	: 12/21/93	Volume ext.	: 1000 mL
Date Extracted	: 12/23/93	pH	: N/A
Date Analyzed	: 12/29/93	Final Vol.	: 10000 uL
Instrument ID	: HP22	Inj. Vol.	: 1 ul
Dilution	: NONE		

CAS No.	COMPOUND NAME	REPORTING LIMIT (ug/L)	AMOUNT FOUND (ug/L)
12674-11-2	Aroclor 1016	1.0	ND
11104-28-2	Aroclor 1221	2.0	ND
11141-16-5	Aroclor 1232	1.0	ND
53469-21-9	Aroclor 1242	1.0	ND
12672-29-6	Aroclor 1248	1.0	ND
11097-69-1	Aroclor 1254	1.0	ND
11096-82-5	Aroclor 1260	1.0	ND
	SURROGATE	PERCENT RECOVERY	PERCENT RECOVERY LIMITS
877-09-8	Tetrachloro-m-xylene	88	30-130
2051-24-3	Decachlorobiphenyl	91	50-118

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 608PCB
ANAMETRIX, INC. (408) 432-8192

Project ID	: 02345-01983	Anametrix ID	: 9312250-05
Sample ID	: 3:MW-18	Analyst	: D.H.
Matrix	: WATER	Supervisor	: SK
Date Sampled	: 12/21/93	Volume ext.	: 1000 mL
Date Extracted	: 12/23/93	pH	: N/A
Date Analyzed	: 12/29/93	Final Vol.	: 10000 uL
Instrument ID	: HP22	Inj. Vol.	: 1 ul
Dilution	: NONE		

CAS No.	COMPOUND NAME	REPORTING LIMIT (ug/L)	AMOUNT FOUND (ug/L)
12674-11-2	Aroclor 1016	1.0	ND
11104-28-2	Aroclor 1221	2.0	ND
11141-16-5	Aroclor 1232	1.0	ND
53469-21-9	Aroclor 1242	1.0	ND
12672-29-6	Aroclor 1248	1.0	ND
11097-69-1	Aroclor 1254	1.0	ND
11096-82-5	Aroclor 1260	1.0	ND
	SURROGATE	PERCENT RECOVERY	PERCENT RECOVERY LIMITS
877-09-8	Tetrachloro-m-xylene	87	30-130
2051-24-3	Decachlorobiphenyl	60	50-118

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 608PCB
ANAMETRIX, INC. (408) 432-8192

Project ID	: 02345-01983	Anametrix ID	: 9312250-06
Sample ID	: 3:MW-19	Analyst	: D.H.
Matrix	: WATER	Supervisor	: SPK
Date Sampled	: 12/21/93	Volume ext.	: 1000 mL
Date Extracted	: 12/23/93	pH	: N/A
Date Analyzed	: 12/29/93	Final Vol.	: 10000 uL
Instrument ID	: HP22	Inj. Vol.	: 1 ul
Dilution	: NONE		

CAS No.	COMPOUND NAME	REPORTING LIMIT (ug/L)	AMOUNT FOUND (ug/L)
12674-11-2	Aroclor 1016	1.0	ND
11104-28-2	Aroclor 1221	2.0	ND
11141-16-5	Aroclor 1232	1.0	ND
53469-21-9	Aroclor 1242	1.0	ND
12672-29-6	Aroclor 1248	1.0	ND
11097-69-1	Aroclor 1254	1.0	ND
11096-82-5	Aroclor 1260	1.0	2.7
	SURROGATE	PERCENT RECOVERY	PERCENT RECOVERY LIMITS
877-09-8	Tetrachloro-m-xylene	75	30-130
2051-24-3	Decachlorobiphenyl	56	50-118

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 608PCB
ANAMETRIX, INC. (408) 432-8192

Project ID	: 02345-01983	Anametrix ID	: 9312250-07
Sample ID	: 3:MW-20	Analyst	: D.A.
Matrix	: WATER	Supervisor	: SR
Date Sampled	: 12/21/93	Volume ext.	: 1000 mL
Date Extracted	: 12/23/93	pH	: N/A
Date Analyzed	: 12/29/93	Final Vol.	: 10000 uL
Instrument ID	: HP22	Inj. Vol.	: 1 ul
Dilution	: NONE		

CAS No.	COMPOUND NAME	REPORTING LIMIT (ug/L)	AMOUNT FOUND (ug/L)
12674-11-2	Aroclor 1016	1.0	ND
11104-28-2	Aroclor 1221	2.0	ND
11141-16-5	Aroclor 1232	1.0	ND
53469-21-9	Aroclor 1242	1.0	ND
12672-29-6	Aroclor 1248	1.0	ND
11097-69-1	Aroclor 1254	1.0	ND
11096-82-5	Aroclor 1260	1.0	ND
	SURROGATE	PERCENT RECOVERY	PERCENT RECOVERY LIMITS
877-09-8	Tetrachloro-m-xylene	75	30-130
2051-24-3	Decachlorobiphenyl	98	50-118

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 608PCB
ANAMETRIX, INC. (408) 432-8192

Project ID	: N/A	Anametrix ID	: BD2311PE
Sample ID	: BLANK	Analyst	: D.H.
Matrix	: WATER	Supervisor	: SR
Date Sampled	: N/A	Volume ext.	: 1000 mL
Date Extracted	: 12/23/93	pH	: N/A
Date Analyzed	: 12/29/93	Final Vol.	: 10000 uL
Instrument ID	: HP22	Inj. Vol.	: 1 ul
Dilution	: NONE		

CAS No.	COMPOUND NAME	REPORTING LIMIT (ug/L)	AMOUNT FOUND (ug/L)
12674-11-2	Aroclor 1016	1.0	ND
11104-28-2	Aroclor 1221	2.0	ND
11141-16-5	Aroclor 1232	1.0	ND
53469-21-9	Aroclor 1242	1.0	ND
12672-29-6	Aroclor 1248	1.0	ND
11097-69-1	Aroclor 1254	1.0	ND
11096-82-5	Aroclor 1260	1.0	ND
	SURROGATE	PERCENT RECOVERY	PERCENT RECOVERY LIMITS
877-09-8	Tetrachloro-m-xylene	85	30-130
2051-24-3	Decachlorobiphenyl	94	50-118

LABORATORY CONTROL SPIKE RECOVERY FORM -- EPA METHOD 608PCB
ANAMETRIX, INC. (408) 432-8192

Project ID	: N/A	Anametrix ID	: MD2311PE
Sample ID	: LCS/LCSD	Analyst	: D.H.
Matrix	: WATER	Supervisor	: SR
Date Sampled	: N/A	Volume ext.	: 1000 mL
Date Extracted	: 12/23/93	pH	: N/A
Date Analyzed	: 12/29/93	Final Vol.	: 10000 uL
Instrument ID	: HP22	Inj. Vol.	: 1 ul
Dilution	: NONE		

LCS COMPOUND NAME	AMOUNT ADDED (ug/L)	AMOUNT FOUND (ug/L)	PERCENT RECOVERY	PERCENT LIMITS
Aroclor 1248	15	14	93	60-122
LCSD COMPOUND NAME	**AMOUNT ADDED (ug/L)**	**AMOUNT FOUND (ug/L)**	**PERCENT RECOVERY**	**PERCENT LIMITS**
Aroclor 1248	15	14	93	60-122
COMPOUND NAME	**%RPD**	**RPD LIMITS**	**RECOVERY LIMITS**	
Aroclor 1248	0	0-30	60-122	
SURROGATE	**LCS-PERCENT RECOVERY**	**LCSD-PERCENT RECOVERY**	**RECOVERY LIMITS**	
TCX	88	90	30-130	
DCB	95	96	50-118	

*TCX=Tetrachloro-m-xylene

*DCB=Decachlorobiphenyl

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. ED ALUSOW
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9312250
Date Received : 12/21/93
Project ID : 02345-01983
Purchase Order: 29518
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9312250- 1	3:MW-1	WATER	12/21/93	TPHd
9312250- 2	3:MW-7	WATER	12/21/93	TPHd
9312250- 3	3:MW-6	WATER	12/21/93	TPHd
9312250- 4	3:DUPX-1	WATER	12/21/93	TPHd
9312250- 5	3:MW-18	WATER	12/21/93	TPHd
9312250- 6	3:MW-19	WATER	12/21/93	TPHd
9312250- 7	3:MW-20	WATER	12/21/93	TPHd

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. ED ALUSOW
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9312250
Date Received : 12/21/93
Project ID : 02345-01983
Purchase Order: 29518
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- No QA/QC problems encountered for these samples.

Department Supervisor — Date: 12/30/93

Chemist — Date: 12/30/93

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS AS DIESEL
ANAMETRIX, INC. (408) 432-8192

Anametrix W.O.: 9312250
Matrix : WATER
Date Sampled : 12/21/93
Date Extracted: 12/21/93

Project Number : 02345-01983
Date Released : 12/30/93
Instrument I.D.: HP9

Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (ug/L)	Amount Found (ug/L)	Surrogate %Rec
9312250-01	3:MW-1	12/30/93	500	15000	92%
9312250-02	3:MW-7	12/24/93	50	110	53%
9312250-03	3:MW-6	12/24/93	50	79	44%
9312250-04	3:DUPX-1	12/24/93	50	69	60%
9312250-05	3:MW-18	12/24/93	50	67	54%
9312250-06	3:MW-19	12/24/93	500	15000	58%
9312250-07	3:MW-20	12/24/93	50	74	41%
BD2112F1	METHOD BLANK	12/24/93	50	ND	61%

Note : Reporting limit is obtained by multiplying the dilution factor times 50 ug/L.
The surrogate recovery limits for C25 are 30-130%.

ND - Not detected at or above the practical quantitation limit for the method.
TPHd - Total Petroleum Hydrocarbons as C10-C28 is determined by GCFID following sample extraction by EPA Method 3510.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

C R Patel 12/30/93
Analyst Date

Denise Shaw 12/30/93
Supervisor Date

TOTAL EXTRACTABLE HYDROCARBON LABORATORY CONTROL SAMPLE REPORT
EPA METHOD 3510 WITH GC/FID
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : LAB CONTROL SAMPLE
Matrix : WATER
Date Sampled : N/A
Date Extracted: 12/21/93
Date Analyzed : 12/23/93

Anametrix I.D. : MD2112F1
Analyst : AR
Supervisor : [illegible]
Date Released : 12/30/93
Instrument I.D.: HP9

COMPOUND	SPIKE AMT (ug/L)	LCS REC (ug/L)	% REC LCS	LCSD REC (ug/L)	% REC LCSD	RPD	% REC LIMITS
DIESEL	1250	940	75%	990	79%	5%	47-130
SURROGATE			84%		81%		30-130

* Quality control limits established by Anametrix, Inc.

ANAMETRIX INC AREA 3 SAMPLES (page 1 of 3)

Environmental & Analytical Chemistry
1961 Concourse Drive, Suite E, San Jose, CA 95131
(408) 432-8192 • Fax (408) 432-8198

9312250 (15) 10/34 16:55

CHAIN-OF-CUSTODY RECORD

PROJECT NUMBER	PROJECT NAME
02345-01983	American National Can (ANC)

Send Report Attention of: Ed Alison

Report Due: / /

Verbal Due: / /

Sample Number	Date	Time	Comp	Matrix	Station Location	Number of Cntnrs	Type of Containers	Type of Analysis: VOC's (8240) (624)	Semi VOC's (8270) (625)	PCB's (8080)	TPH-d (DHS-LUFT)	Condition of Samples	Initial
MW-1	12/21/93	0950			AREA 3	2	40mL VOA's	X					
MW-1	12/21/93	0950			AREA 3	2	litre amber		X			Preserved w/HCl	
MW-1	12/21/93	0950			AREA 3	2	litre amber			X			
MW-1	12/21/93	0950			AREA 3	2	liter amber				X		
MW-7	12/21/93	1010			AREA 3	2	40mL VOA's	X					
MW-7	12/21/93	1010			AREA 3	2	litre amber		X			Preserved w/HCl	
MW-7	12/21/93	1010			AREA 3	2	litre amber			X			
MW-6	12/21/93	1130			AREA 3	2	40mL VOA's	X					
MW-6	12/21/93	1130			AREA 3	2	litre amber		X			Preserved w/HCl	
MW-6	12/21/93	1130			AREA 3	2	litre amber			X			
MW-6	12/21/93	1130			AREA 3	2	litre amber				X		

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	12/21/93 1640		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Date/Time	Received by Lab: [signature]	Date/Time 12/22/93

Remarks: Standard Turnaround Time (2 weeks)

COMPANY: RUST E&I
ADDRESS: 12 Metro Park Rd Albany NY

Inchcape Testing Services
Anametrix Laboratories

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

MR. ED ALUSOW
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9312273
Date Received : 12/22/93
Project ID : 02345-01983
Purchase Order: 29518

The following samples were received at Anametrix, Inc. for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9312273- 1	4:MW-9
9312273- 2	4:MW-8
9312273- 3	4:MW-14
9312273- 4	T. BLANK

This report consists of 20 pages not including the cover letter, and is organized in sections according to the specific Anametrix laboratory group or section which performed the analysis(es) and generated the data. The Report Summary that precedes each section will help you determine which Anametrix group is responsible for those test results, and will bear the signatures of the department supervisor and the chemist who have reviewed the analytical data. Please refer all questions to the department supervisor who signed the form.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234. A detailed list of the approved fields of testing can be obtained by calling our office, or the DHS Environmental Laboratory Accreditation Program at (415)540-2800.

If you have any further questions or comments on this report, please give us a call as soon as possible. Thank you for using Anametrix.

Sarah Schoen, Ph.D.
Laboratory Director

12-30-93
Date

ANAMETRIX REPORT DESCRIPTION
GCMS

Organic Analysis Data Sheets (OADS)

OADS forms contain tabulated results for target compounds. The OADS are grouped by method and, within each method, organized sequentially in order of increasing Anametrix ID number.

Tentatively Identified Compounds (TICs)

TIC forms contain tabulated results for non-target compounds detected in GC/MS analyses. TICs must be requested at the time samples are submitted at Anametrix. TIC forms immediately follow the OADS form for each sample. If TICs are requested but not found, then TIC forms will not be included with the report.

Surrogate Recovery Summary (SRS)

SRS forms contain quality assurance data. An SRS form will be printed for each method, if the method requires surrogate compounds. They will list surrogate percent recoveries for all samples and any method blanks. Any surrogate recovery outside the established limits will be flagged with an "*", and the total number of surrogates outside the limits will be listed in the column labelled "Total Out".

Matrix Spike Recovery Form (MSR)

MSR forms contain quality assurance data. They summarize percent recovery and relative percent difference information for matrix spikes and matrix spike duplicates. This information is a statement of both accuracy and precision. Any percent recovery or relative percent difference outside established limits will be flagged with an "*", and the total number outside the limits will be listed at the bottom of the page. Not all reports will contain an MSR form

Qualifiers

Anametrix uses several data qualifiers (Q) in it's report forms. These qualifiers give additional information on the compounds reported. They should help a data reviewer to verify the integrity of the analytical results. The following is a list of qualifiers and their meanings:

- U - Indicates that the compound was analyzed for, but was not detected at or above the specified reporting limit.
- B - Indicates that the compound was detected in the associated method blank.
- J - Indicates that the compound was detected at an amount below the specified reporting limit. Consequently, the amount should be considered an approximate value. Tentatively identified compounds will always have a "J" qualifier because they are not included in the instrument calibration.
- E - Indicates that the amount reported exceeded the linear range of the instrument calibration.
- D - Indicates that the compound was detected in an analysis performed at a secondary dilution.
- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. This is common in EPA Method 8270 soil analyses.

Absence of a qualifier indicates that the compound was detected at a concentration at or above the specified reporting limit.

REPORTING CONVENTIONS

- Due to a size limitation in our data processing step, only the first eight (8) characters of your project ID and sample ID will be printed on the report forms. However, the report cover letter and report summary pages display up to twenty (20) characters of your project and sample IDs.
- Amounts reported are gross values, i.e., not corrected for method blank contamination.

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. ED ALUSOW
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9312273
Date Received : 12/22/93
Project ID : 02345-01983
Purchase Order: 29518
Department : GCMS
Sub-Department: GCMS

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9312273- 2	4:MW-8	WATER	12/22/93	624
9312273- 4	T. BLANK	WATER	12/22/93	624

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. ED ALUSOW
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9312273
Date Received : 12/22/93
Project ID : 02345-01983
Purchase Order: 29518
Department : GCMS
Sub-Department: GCMS

QA/QC SUMMARY :

- Tentatively Identified Compounds (TIC's) were scanned for, but were not detected in the EPA Method 624 analysis of these samples.

Department Supervisor 12-30-93 Date

Chemist 12-30-93 Date

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 624
ANAMETRIX, INC. (408)432-8192

Project ID : 02345-01
Sample ID : 4:MW-8
Matrix : WATER
Date Sampled :12/22/93
Date Analyzed :12/29/93
Instrument ID : MSD1

Anametrix ID : 9312273-02
Analyst : [illegible]
Supervisor : [illegible]

Dilution Factor : 1.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	10.	ND	U
75-01-4	Vinyl chloride	10.	ND	U
74-83-9	Bromomethane	10.	ND	U
75-00-3	Chloroethane	10.	ND	U
75-69-4	Trichlorofluoromethane	5.	ND	U
75-35-4	1,1-Dichloroethene	5.	ND	U
76-13-1	Trichlorotrifluoroethane	5.	ND	U
67-64-1	Acetone	20.	ND	U
75-15-0	Carbon disulfide	5.	ND	U
75-09-2	Methylene chloride	5.	ND	U
156-60-5	Trans-1,2-dichloroethene	5.	ND	U
75-34-3	1,1-Dichloroethane	5.	ND	U
156-59-2	Cis-1,2-dichloroethene	5.	ND	U
78-93-3	2-Butanone	20.	ND	U
67-66-3	Chloroform	5.	ND	U
71-55-6	1,1,1-Trichloroethane	5.	ND	U
56-23-5	Carbon tetrachloride	5.	ND	U
108-05-4	Vinyl acetate	10.	ND	U
71-43-2	Benzene	5.	ND	U
107-06-2	1,2-Dichloroethane	5.	ND	U
79-01-6	Trichloroethene	5.	ND	U
78-87-5	1,2-Dichloropropane	5.	ND	U
75-27-4	Bromodichloromethane	5.	ND	U
10061-01-5	Cis-1,3-dichloropropene	5.	ND	U
108-10-1	4-Methyl-2-pentanone	10.	ND	U
108-88-3	Toluene	5.	ND	U
10061-02-6	Trans-1,3-dichloropropene	5.	ND	U
79-00-5	1,1,2-Trichloroethane	5.	ND	U
127-18-4	Tetrachloroethene	5.	ND	U
591-78-6	2-Hexanone	10.	ND	U
124-48-1	Dibromochloromethane	5.	ND	U
108-90-7	Chlorobenzene	5.	ND	U
100-41-4	Ethylbenzene	5.	ND	U
1330-20-7	Xylene (Total)	5.	ND	U
100-42-5	Styrene	5.	ND	U
75-25-2	Bromoform	5.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	ND	U
541-73-1	1,3-Dichlorobenzene	5.	ND	U
106-46-7	1,4-Dichlorobenzene	5.	ND	U
95-50-1	1,2-Dichlorobenzene	5.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 624
ANAMETRIX, INC. (408)432-8192

Project ID : 02345-01
Sample ID : T.BLANK
Matrix : WATER
Date Sampled :12/22/93
Date Analyzed :12/29/93
Instrument ID : MSD1

Anametrix ID : 9312273-04
Analyst : D
Supervisor : J

Dilution Factor : 1.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	10.	ND	U
75-01-4	Vinyl chloride	10.	ND	U
74-83-9	Bromomethane	10.	ND	U
75-00-3	Chloroethane	10.	ND	U
75-69-4	Trichlorofluoromethane	5.	ND	U
75-35-4	1,1-Dichloroethene	5.	ND	U
76-13-1	Trichlorotrifluoroethane	5.	ND	U
67-64-1	Acetone	20.	ND	U
75-15-0	Carbon disulfide	5.	ND	U
75-09-2	Methylene chloride	5.	ND	U
156-60-5	Trans-1,2-dichloroethene	5.	ND	U
75-34-3	1,1-Dichloroethane	5.	ND	U
156-59-2	Cis-1,2-dichloroethene	5.	ND	U
78-93-3	2-Butanone	20.	ND	U
67-66-3	Chloroform	5.	ND	U
71-55-6	1,1,1-Trichloroethane	5.	ND	U
56-23-5	Carbon tetrachloride	5.	ND	U
108-05-4	Vinyl acetate	10.	ND	U
71-43-2	Benzene	5.	ND	U
107-06-2	1,2-Dichloroethane	5.	ND	U
79-01-6	Trichloroethene	5.	ND	U
78-87-5	1,2-Dichloropropane	5.	ND	U
75-27-4	Bromodichloromethane	5.	ND	U
10061-01-5	Cis-1,3-dichloropropene	5.	ND	U
108-10-1	4-Methyl-2-pentanone	10.	ND	U
108-88-3	Toluene	5.	ND	U
10061-02-6	Trans-1,3-dichloropropene	5.	ND	U
79-00-5	1,1,2-Trichloroethane	5.	ND	U
127-18-4	Tetrachloroethene	5.	ND	U
591-78-6	2-Hexanone	10.	ND	U
124-48-1	Dibromochloromethane	5.	ND	U
108-90-7	Chlorobenzene	5.	ND	U
100-41-4	Ethylbenzene	5.	ND	U
1330-20-7	Xylene (Total)	5.	ND	U
100-42-5	Styrene	5.	ND	U
75-25-2	Bromoform	5.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	ND	U
541-73-1	1,3-Dichlorobenzene	5.	ND	U
106-46-7	1,4-Dichlorobenzene	5.	ND	U
95-50-1	1,2-Dichlorobenzene	5.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 624
ANAMETRIX, INC. (408)432-8192

Project ID :
Sample ID : VBLK1N
Matrix : WATER
Date Sampled : 0/ 0/ 0
Date Analyzed :12/29/93
Instrument ID : MSD1

Anametrix ID : BD2902A2
Analyst :
Supervisor :

Dilution Factor : 1.0
Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	10.	ND	U
75-01-4	Vinyl chloride	10.	ND	U
74-83-9	Bromomethane	10.	ND	U
75-00-3	Chloroethane	10.	ND	U
75-69-4	Trichlorofluoromethane	5.	ND	U
75-35-4	1,1-Dichloroethene	5.	ND	U
76-13-1	Trichlorotrifluoroethane	5.	ND	U
67-64-1	Acetone	20.	ND	U
75-15-0	Carbon disulfide	5.	ND	U
75-09-2	Methylene chloride	5.	ND	U
156-60-5	Trans-1,2-dichloroethene	5.	ND	U
75-34-3	1,1-Dichloroethane	5.	ND	U
156-59-2	Cis-1,2-dichloroethene	5.	ND	U
78-93-3	2-Butanone	20.	ND	U
67-66-3	Chloroform	5.	ND	U
71-55-6	1,1,1-Trichloroethane	5.	ND	U
56-23-5	Carbon tetrachloride	5.	ND	U
108-05-4	Vinyl acetate	10.	ND	U
71-43-2	Benzene	5.	ND	U
107-06-2	1,2-Dichloroethane	5.	ND	U
79-01-6	Trichloroethene	5.	ND	U
78-87-5	1,2-Dichloropropane	5.	ND	U
75-27-4	Bromodichloromethane	5.	ND	U
10061-01-5	Cis-1,3-dichloropropene	5.	ND	U
108-10-1	4-Methyl-2-pentanone	10.	ND	U
108-88-3	Toluene	5.	ND	U
10061-02-6	Trans-1,3-dichloropropene	5.	ND	U
79-00-5	1,1,2-Trichloroethane	5.	ND	U
127-18-4	Tetrachloroethene	5.	ND	U
591-78-6	2-Hexanone	10.	ND	U
124-48-1	Dibromochloromethane	5.	ND	U
108-90-7	Chlorobenzene	5.	ND	U
100-41-4	Ethylbenzene	5.	ND	U
1330-20-7	Xylene (Total)	5.	ND	U
100-42-5	Styrene	5.	ND	U
75-25-2	Bromoform	5.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	ND	U
541-73-1	1,3-Dichlorobenzene	5.	ND	U
106-46-7	1,4-Dichlorobenzene	5.	ND	U
95-50-1	1,2-Dichlorobenzene	5.	ND	U

SURROGATE RECOVERY SUMMARY -- EPA METHOD 624
ANAMETRIX, INC. (408)432-8192

Project ID : 02345-01
Matrix : LIQUID

Anametrix ID : 9312273
Analyst : DP
Supervisor : .

	SAMPLE ID	SU1	SU2	SU3
1	VBLK1N	98	99	100
2	LCS1M	100	101	99
3	4:MW-8	100	99	100
4	T.BLANK	99	102	100
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

	QC LIMITS
SU1 = 1,2-Dichloroethane-d4	(75-113)
SU2 = Toluene-d8	(83-110)
SU3 = 1,4-Bromofluorobenzene	(82-114)

* Values outside of Anametrix QC limits

LABORATORY CONTROL SPIKE RECOVERY FORM --- EPA METHOD 624/8240

ANAMETRIX, INC. (408)432-8192

Project/Case	:	Anametrix ID	: MD2901A2
Matrix	: WATER	Analyst	:
Date Sampled	: 0/ 0/ 0	Supervisor	:
Date Analyzed	: 12/29/93	SDG/Batch	:
Instrument ID	: MSD1		

LCS1M

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	%REC LIMITS
1,1-Dichloroethene	50	0	48	96	72-145
Benzene	50	0	49	98	83-125
Trichloroethene	50	0	50	100	61-140
Toluene	50	0	49	98	82-123
Chlorobenzene	50	0	51	102	82-125

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. ED ALUSOW
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9312273
Date Received : 12/22/93
Project ID : 02345-01983
Purchase Order: 29518
Department : GC
Sub-Department: PEST

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9312273- 2	4:MW-8	WATER	12/22/93	608 PCB

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. ED ALUSOW
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9312273
Date Received : 12/22/93
Project ID : 02345-01983
Purchase Order: 29518
Department : GC
Sub-Department: PEST

QA/QC SUMMARY :

- No QA/QC problems encountered for samples.

Department Supervisor 12/30/93 Date

Chemist 12-30-93 Date

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8080PCB
ANAMETRIX, INC. (408) 432-8192

Project ID	: 02345-01983	Anametrix ID	: 9312273-02
Sample ID	: 4:MW-8	Analyst	: D.H.
Matrix	: WATER	Supervisor	: SR
Date Sampled	: 12/22/93	Volume ext.	: 1000 mL
Date Extracted	: 12/23/93	pH	: N/A
Date Analyzed	: 12/29/93	Final Vol.	: 10000 uL
Instrument ID	: HP22	Inj. Vol.	: 1 ul
Dilution	: NONE		

CAS No.	COMPOUND NAME	REPORTING LIMIT (ug/L)	AMOUNT FOUND (ug/L)
12674-11-2	Aroclor 1016	1.0	ND
11104-28-2	Aroclor 1221	2.0	ND
11141-16-5	Aroclor 1232	1.0	ND
53469-21-9	Aroclor 1242	1.0	ND
12672-29-6	Aroclor 1248	1.0	ND
11097-69-1	Aroclor 1254	1.0	ND
11096-82-5	Aroclor 1260	1.0	ND
	SURROGATE	PERCENT RECOVERY	PERCENT RECOVERY LIMITS
877-09-8	Tetrachloro-m-xylene	87	30-130
2051-24-3	Decachlorobiphenyl	99	34-135

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 608PCB
ANAMETRIX, INC. (408) 432-8192

Project ID	: N/A	Anametrix ID	: BD2311PE
Sample ID	: BLANK	Analyst	:
Matrix	: WATER	Supervisor	:
Date Sampled	: N/A	Volume ext.	: 1000 mL
Date Extracted	: 12/23/93	pH	: N/A
Date Analyzed	: 12/29/93	Final Vol.	: 10000 uL
Instrument ID	: HP22	Inj. Vol.	: 1 ul
Dilution	: NONE		

CAS No.	COMPOUND NAME	REPORTING LIMIT (ug/L)	AMOUNT FOUND (ug/L)
12674-11-2	Aroclor 1016	1.0	ND
11104-28-2	Aroclor 1221	2.0	ND
11141-16-5	Aroclor 1232	1.0	ND
53469-21-9	Aroclor 1242	1.0	ND
12672-29-6	Aroclor 1248	1.0	ND
11097-69-1	Aroclor 1254	1.0	ND
11096-82-5	Aroclor 1260	1.0	ND
	SURROGATE	PERCENT RECOVERY	PERCENT RECOVERY LIMITS
877-09-8	Tetrachloro-m-xylene	85	30-130
2051-24-3	Decachlorobiphenyl	94	34-135

LABORATORY CONTROL SPIKE RECOVERY FORM -- EPA METHOD 608PCB
ANAMETRIX, INC. (408) 432-8192

Project ID : N/A
Sample ID : LCS/LCSD
Matrix : WATER
Date Sampled : N/A
Date Extracted : 12/23/93
Date Analyzed : 12/29/93
Instrument ID : HP22
Dilution : NONE

Anametrix ID : MD2311PE
Analyst : E M.
Supervisor : STR
Volume ext. : 1000 mL
pH : N/A
Final Vol. : 10000 uL
Inj. Vol. : 1 ul

LCS COMPOUND NAME	AMOUNT ADDED (ug/L)	AMOUNT FOUND (ug/L)	PERCENT RECOVERY	PERCENT LIMITS
Aroclor 1248	15	14	93	60-122
LCSD COMPOUND NAME	AMOUNT ADDED (ug/L)	AMOUNT FOUND (ug/L)	PERCENT RECOVERY	PERCENT LIMITS
Aroclor 1248	15	14	93	60-122
COMPOUND NAME	%RPD	RPD LIMITS	RECOVERY LIMITS	
Aroclor 1248	0	0-30	60-122	
SURROGATE - LCS	LCS-PERCENT RECOVERY	LCSD-PERCENT RECOVERY	RECOVERY LIMITS	
TCX	88	90	30-130	
DCB	95	96	34-135	

*TCX=Tetrachloro-m-xylene

*DCB=Decachlorobiphenyl

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. ED ALUSOW
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9312273
Date Received : 12/22/93
Project ID : 02345-01983
Purchase Order: 29518
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9312273- 2	4:MW-8	WATER	12/22/93	TPHd
9312273- 2	4:MW-8	WATER	12/22/93	TPHg
9312273- 1	4:MW-9	WATER	12/22/93	TPHgBTEX
9312273- 3	4:MW-14	WATER	12/22/93	TPHgBTEX
9312273- 4	T. BLANK	WATER	12/22/93	TPHgBTEX

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. ED ALUSOW
RUST ENVIRONMENT AND INFRASTRUCTURE
12 METRO PARK ROAD
ALBANY, NY 12205

Workorder # : 9312273
Date Received : 12/22/93
Project ID : 02345-01983
Purchase Order: 29518
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- No QA/QC problems encountered for these samples.

Department Supervisor 12/29/93 Date

Chemist 12/29/93 Date

Organic Analysis Data Sheet
Total Petroleum Hydrocarbons as Gasoline with BTEX
ITS - Anametrix Laboratories - (408)432-8192

Lab Workorder : 9312273 Client Project ID : 02345-01983

Matrix : WATER Units : ug/L

Compound Name	Method Reporting Limit*	Client ID 4:MW-9 Lab ID 9312273-01	Client ID 4:MW-8 Lab ID 9312273-02	Client ID 4:MW-14 Lab ID 9312273-03	Client ID T. BLANK Lab ID 9312273-04	Client ID Lab ID METHOD BLANK
Benzene	0.50	ND	-	ND	ND	ND
Toluene	0.50	ND	-	ND	ND	ND
Ethylbenzene	0.50	ND	-	ND	ND	ND
Total Xylenes	0.50	ND	-	2.0	ND	ND
TPH as Gasoline	50	ND	ND	ND	ND	ND
Surrogate Recovery		101%	115%	99%	104%	98%
Instrument ID		HP12	HP12	HP12	HP12	HP12
Date Sampled		12/22/93	12/22/93	12/22/93	12/22/93	N/A
Date Analyzed		12/27/93	12/27/93	12/27/93	12/27/93	12/27/93
RLMF		1	1	1	1	1
Filename Reference		FPD27301.D	FPD27302.D	FPD27303.D	FPD27304.D	BD2701E1.D

* The Method Reporting Limit must be multiplied by the Reporting Limit Multiplication Factor (RLMF) to achieve the compound's reporting limit in the analysis.

ND : Not detected at or above the reporting limit for the analysis as performed.
TPHg : Determined by GC/FID following sample purge & trap by EPA Method 5030.
BTEX : Determined by modified EPA Method 8020 following sample purge & trap by EPA Method 5030.

Lab Control Limits for surrogate compound p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

-jucks 12/29/93

Analyst Date

Supervisor Date

Issued on 12/29/93 @ 11:23 AM

Matrix Spike Report
Total Petroleum Hydrocarbons as Gasoline
ITS - Anametrix Laboratories - (408)432-8192

Project ID : 02345-01983
Sample ID : 4:MW-14
Matrix : WATER
Date Sampled : 12/22/93

Laboratory ID : 9312273-03
Analyst : [illegible]
Supervisor : [illegible]
Instrument ID : HP12
Units : ug/L

COMPOUND NAME	SPIKE AMOUNT	SAMPLE RESULTS	MS RECOVERY	MSD RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS
Gasoline	500	ND	70%	72%	50-139	-3%	30
Surrogate Recovery		99%	79%	85%			
Date Analyzed		12/27/93	12/27/93	12/27/93			
Multiplier		1	1	1			
Filename Reference		FPD27303.D	FMD27303.D	FDD27303.D			

* Limits established by Inchcape Testing Services, Anametrix Laboratories.

Laboratory Control Spike Report
Total Petroleum Hydrocarbons as Gasoline
ITS - Anametrix Laboratories - (408)432-8192

Instrument ID : HP12
Matrix : LIQUID

Analyst : FL
Supervisor : JS
Units : ug/L

COMPOUND NAME	SPIKE AMOUNT	LCS RECOVERY	RECOVERY LIMITS
Gasoline	500	78%	56-141
Surrogate Recovery		83%	61-139
Date Analyzed		12/27/93	
Multiplier		1	
Filename Reference		MD2702E1.D	

* Limits established by Inchcape Testing Services, Anametrix Laboratories.

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS AS DIESEL
ANAMETRIX, INC. (408) 432-8192

Anametrix W.O.: 9312273
Matrix : WATER
Date Sampled : 12/22/93
Date Extracted: 12/23/93

Project Number : 02345-01983
Date Released : 12/29/93
Instrument I.D.: HP9

Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (ug/L)	Amount Found (ug/L)	Surrogate %Rec
9312273-02	4:MW-8	12/23/93	50	ND	49%
BD2311F1	METHOD BLANK	12/24/93	50	ND	65%

Note : Reporting limit is obtained by multiplying the dilution factor times 50 ug/L.
The surrogate recovery limits for C25 are 30-130%.

ND - Not detected at or above the practical quantitation limit for the method.
TPHd - Total Petroleum Hydrocarbons as C10-C28 is determined by GCFID following sample extraction by EPA Method 3510.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

FCSh 12/29/93
Analyst Date

Supervisor 12/29/93
Supervisor Date

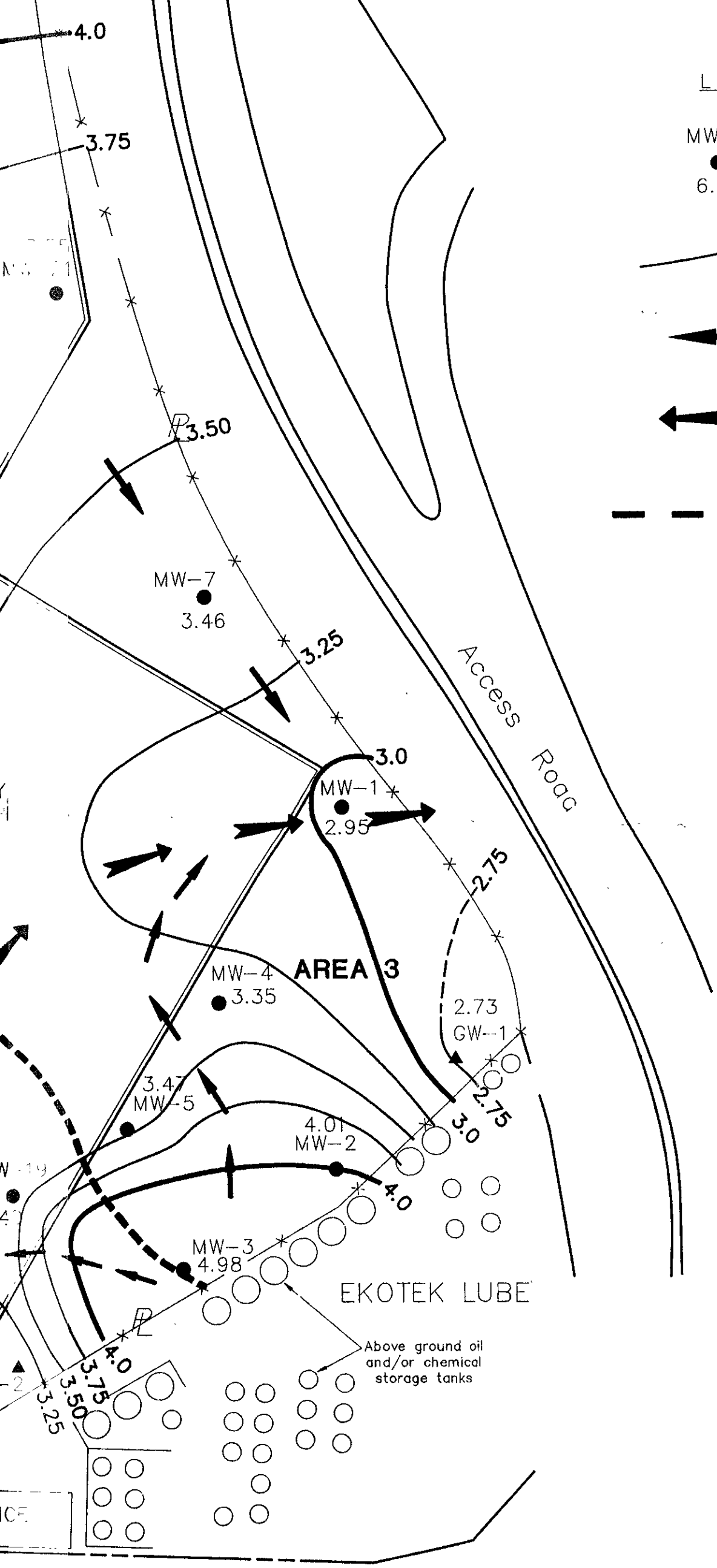
TOTAL EXTRACTABLE HYDROCARBON LABORATORY CONTROL SAMPLE REPORT
EPA METHOD 3510 WITH GC/FID
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : LAB CONTROL SAMPLE
Matrix : WATER
Date Sampled : N/A
Date Extracted: 12/23/93
Date Analyzed : 12/24/93

Anametrix I.D. : MD2311F1
Analyst : [illegible]
Supervisor : [illegible]
Date Released : 12/29/93
Instrument I.D.: HP9

COMPOUND	SPIKE AMT (ug/L)	LCS REC (ug/L)	% REC LCS	LCSD REC (ug/L)	% REC LCSD	RPD	% REC LIMITS
DIESEL	1250	760	61%	850	68%	11%	47-130
SURROGATE			73%		77%		30-130

* Quality control limits established by Anametrix, Inc.



LEGEND

MW-3	WELL IDENTIFICATION NUMBER
●	MONITORING WELL LOCATION
6.29	GROUNDWATER ELEVATION
4.0	GROUNDWATER CONTOUR (dashed where inferred)
	DIRECTION OF GROUNDWATER FLOW
	INFERRED AXIS OF GROUNDWATER TROUGH SHOWING FLOW DIRECTION
	INFERRED LOCATION OF GROUNDWATER DIVIDE

PLATE 16

MES		RUST ENVIRONMENT & INFRASTRUCTURE
S. C. Galloway	DATUM: MSL	
Walter O. Howard	CONTOUR INTERVAL: 0.25'/1.0'	CLIENT DWG. NO.
.: Edward W. Alusow	U.S.G.S. QUAD.: OAKLAND EAST	RUST DWG. NO. 2M8985_16
.:		PROJECT NUMBER 39195.101
		DATE DRAWN: 1/94
1"=50'	SCALE IN FEET 0 25' 50'	REVISION NUMBER 0 SHEET NUMBER 1 OF 1

GROUNDWATER CONTOUR MAP 12/20/93
AMERICAN NATIONAL CAN
OAKLAND PLANT

CITY OF OAKLAND — ALAMEDA COUNTY, CA

Nimitz Freeway

East 8TH Street

REA 1

AREA 2

FORMER UST

OFFICES

Smokestack

FACTORY NO. 1

MW-13
9.06

9.0

8.0

7.0

6.0

UST

MW-15
6.23

GW-6
6.66

TW-1
6.04

5.0

4.0

3.75

3.55
MW-21

MW-17
3.75

3.50

MW-7
3.46

3.25

WATER TANK

NO. 15
COIL CUTTING

MW-20
3.54

3.0

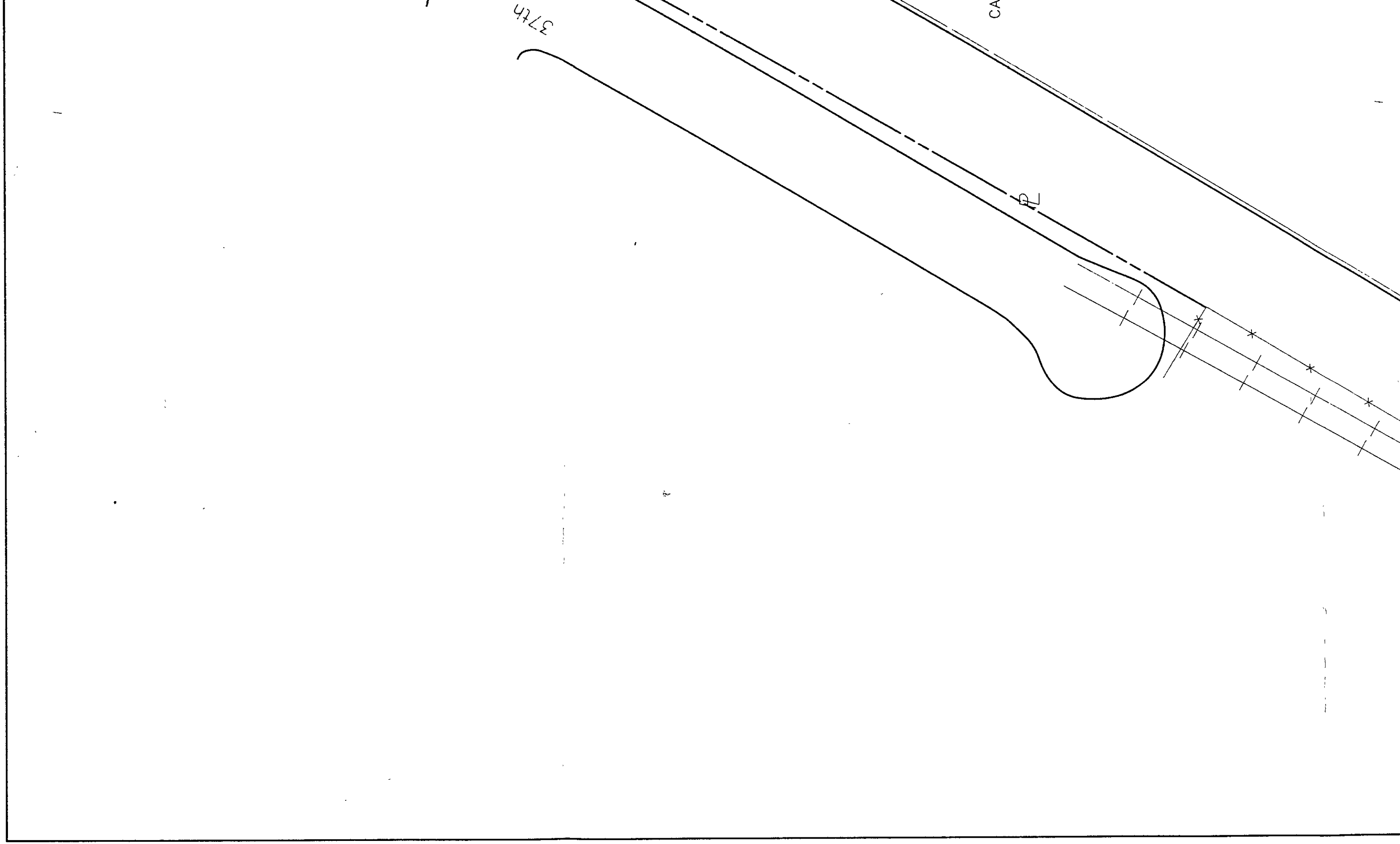
LITHOGRAPHY
NO. 12

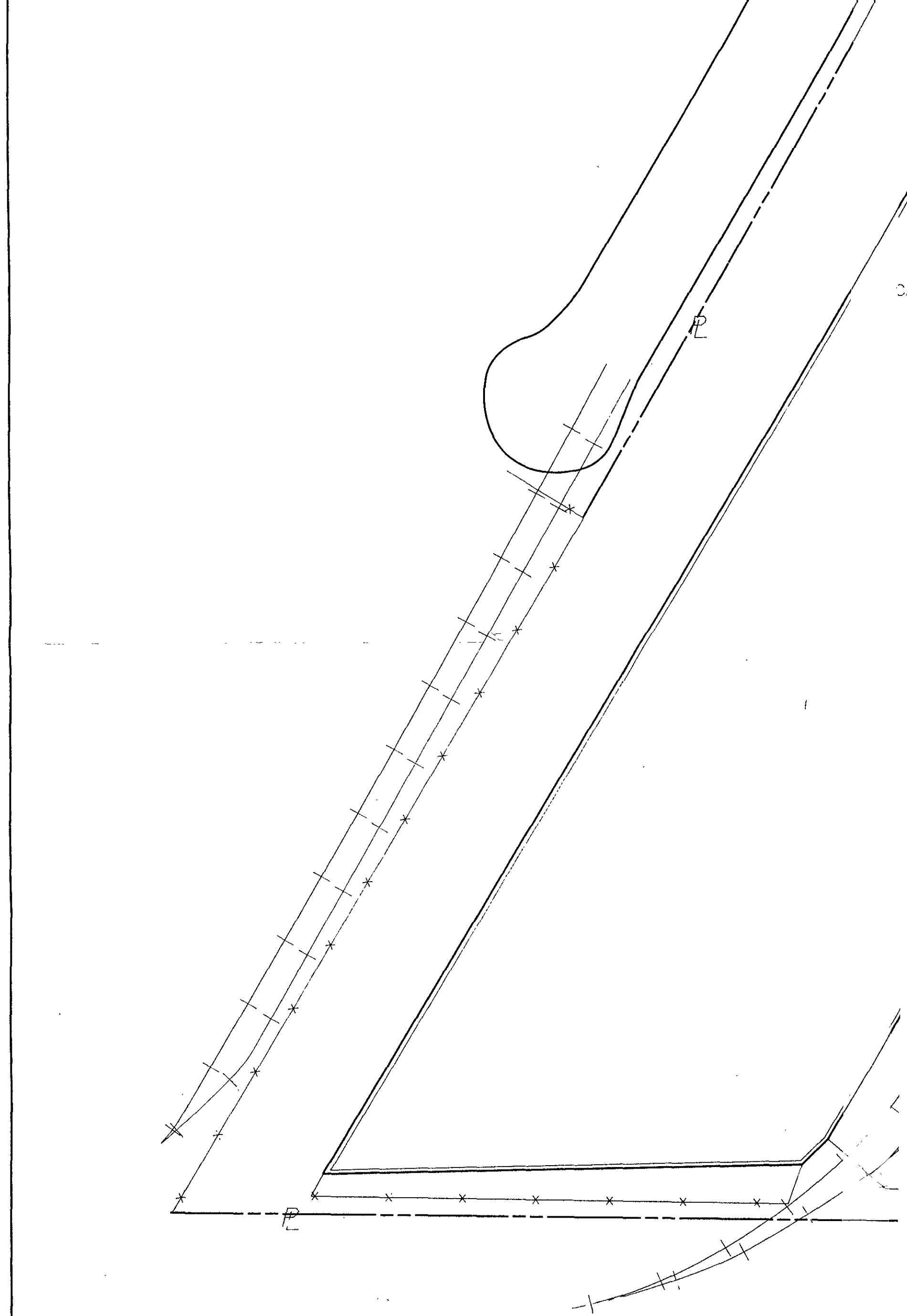
MW-1
2.95

5

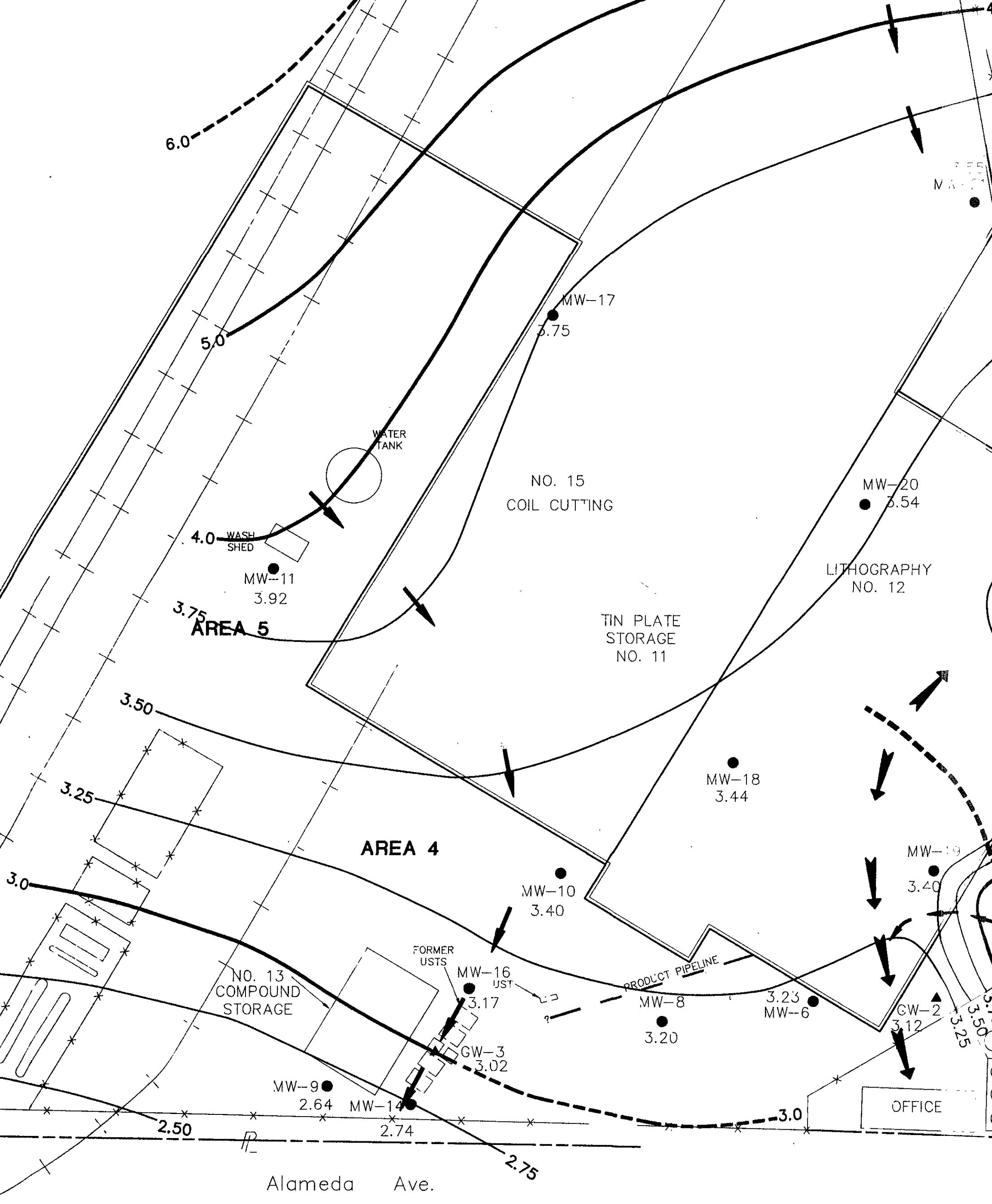
TIN PLATE
STORAGE
NO. 11

GW-5
9.20
FORMER UST
MW-12
9.34
9.0
AREA 1
8.0
7.0
6.0
37th Ave.
CAN WAREHOUSE
NO. 3
℄
5.0
4.0
WASH SHED
MW-11
3.92
3.75
AREA 5


37th
CA
℄

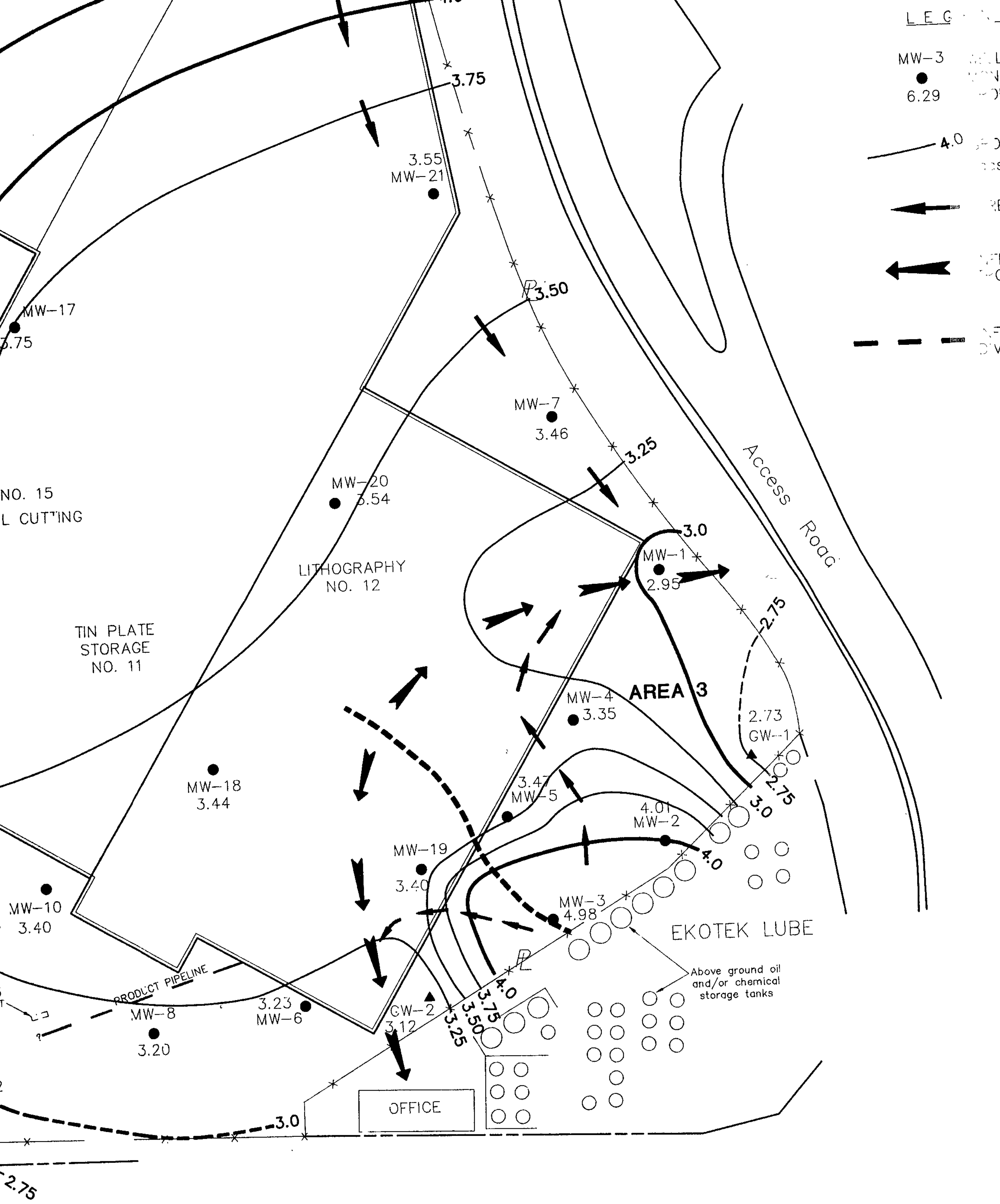


NO.	REVISIONS	MADE	CHK	DATE	NO.	REVISIONS



CHK	DATE	NO.	REVISIONS	MADE	CHK	DATE

NAMES	
DRAWN:	S. C. Ga
DESIGN:	Wa ter C
PROJ. MGR.:	Edward W.
PROJ. ENG.:	
CHECKED:	
SCALE:	1"=5



MADE	CHK	DATE	

NAMES			
DRAWN:	S. C. Galloway	DATUM:	MSL
DESIGN:	Walter O. Howard	CONTOUR INTERVAL:	0.25'/1.0'
PROJ. MGR.:	Edward W. Alusow	U.S.G.S. QUAD.:	OAKLAND EAST
PROJ. ENG.:			
CHECKED:			
SCALE:	1"=50'	SCALE IN FEET 0 25' 50'	

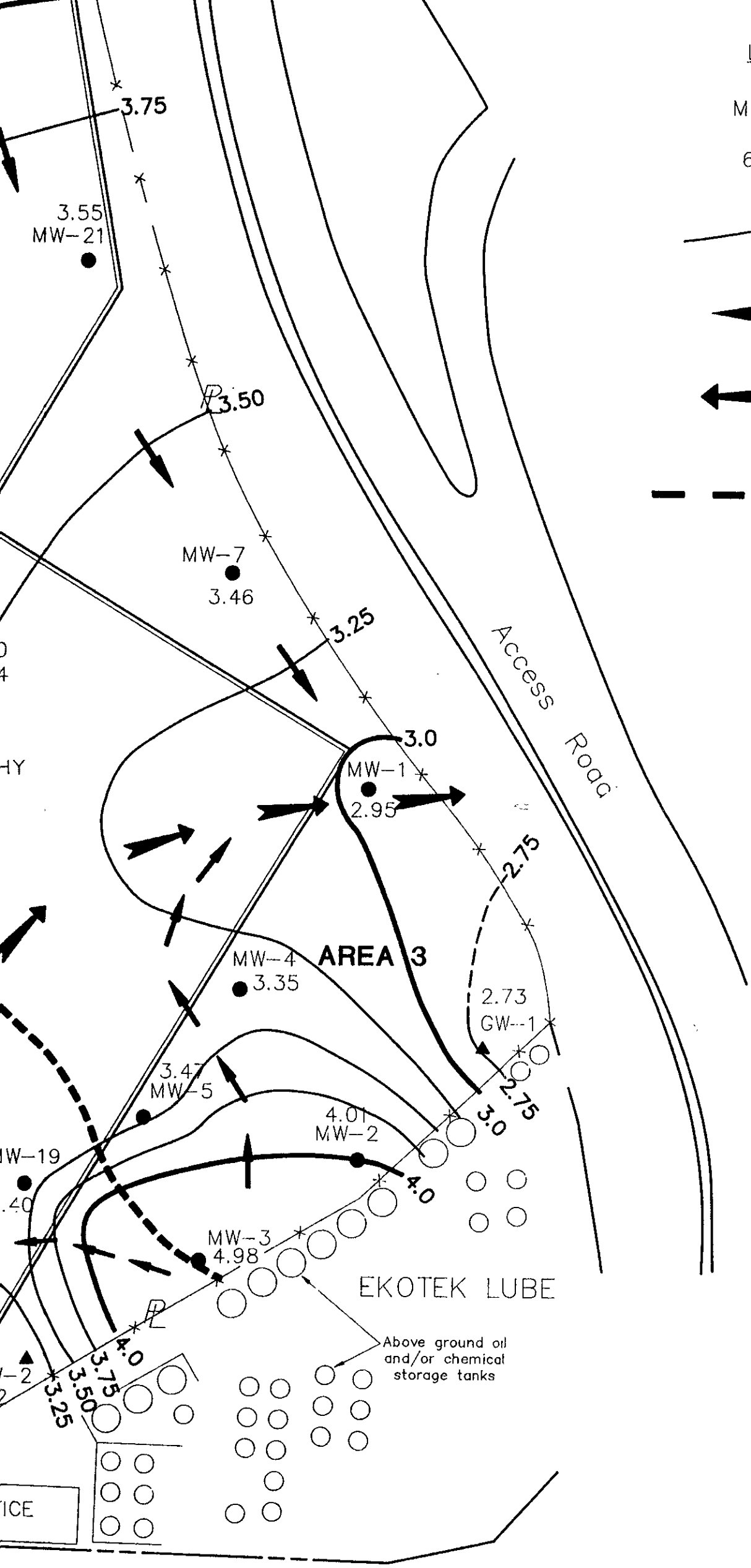
CLIENT DWG. NO.

RUST DWG. NO. **2M8985_16**

PROJECT NUMBER 391

DATE DRAWN: 1/94

REVISION NUMBER 0 SHEET NUMBER 1 OF



LEGEND

MW-3 WELL IDENTIFICATION NUMBER
● MONITORING WELL LOCATION
6.29 GROUNDWATER ELEVATION

4.0 GROUNDWATER CONTOUR (dashed where inferred)

DIRECTION OF GROUNDWATER FLOW

INFERRED AXIS OF GROUNDWATER TROUGH SHOWING FLOW DIRECTION

INFERRED LOCATION OF GROUNDWATER DIVIDE

PLATE 16

MES		RUST ENVIRONMENT & INFRASTRUCTURE
S. C. Galloway	DATUM: MSL	
Walter O. Howard	CONTOUR INTERVAL: 0.25'/1.0'	CLIENT DWG. NO.
.: Edward W. Alusow	U.S.G.S. QUAD.: OAKLAND EAST	RUST DWG. NO. 2M8985_16
:		PROJECT NUMBER 39195.101
		DATE DRAWN: 1/94
1"=50'	SCALE IN FEET 0 25' 50'	REVISION NUMBER 0 SHEET NUMBER 1 OF 1

GROUNDWATER CONTOUR MAP 12/20/93
AMERICAN NATIONAL CAN
OAKLAND PLANT

CITY OF OAKLAND ALAMEDA COUNTY, CA