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

February 13, 1995

Mr. Barney Chan
Hazardous Materials Specialist
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Room 250
Alameda, California 94502

Subject:

Area 4

Former American National Can Company Facility

Oakland, California

Dear Mr. Chan:

Enclosed please find a copy of our Area 4 Remediation Activities Report for the referenced site.

If based on the information provided in this document, you agree that the impacted soil in this area has been remediated to the satisfaction of the Alameda County Department of Environmental Health, please indicate your agency's approved closure in a letter to my attention.

If you have any questions regarding this report, please contact me at 518-458-1313.

Very truly yours,

Edward W. Alusow Senior Project Manager

ESA/ajl

Enclosure

cc:

- J. Moran (ANC)
- J. Peters (ANC)
- E. Rawlings (ANC)
- J. Kessler (HSA)
- D. Bruegel (Dickinson Wright)

Edward W. aluson

- R. Creps (PES)
- R. Arulananthum (SFBRWQCB)
- R. Williams (KMART)
- S. Arigala (SFBRWQCB)
- S. Krival (DTSC)

Quality through teamwork

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Remediation Activities Report Former ANC Facility - Area 4 Oakland, California

> Prepared for: American National Can Company Chicago, Illinois

Prepared by: Rust Environment & Infrastructure Albany, New York

February 1995

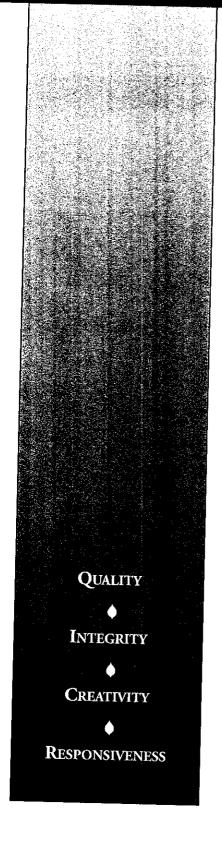




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1.0 INTRODUCTION

American National Can (ANC) retained Rust Environment & Infrastructure (RUST) to oversee soil remedial activities at the former ANC facility located at 3801 East 8th Street, Oakland, California (see Figure 1). RUST provided technical assistance and directed the excavation of impacted soils from Areas 4A and 4B within Area 4 of the site. Area 4 was previously defined in a 1991 subsurface investigation by DUNN Geoscience Corporation (DUNN). Initial remedial activities in Area 4 included the removal of underground storage tanks (USTs) and soil. Additional Area 4 remedial activities were carried out by DUNN during October and November, 1992 to remove a 500 gallon gasoline UST and a series of underground pipelines. Results from this remedial effort were reported in the March, 1993 Area 4 Remedial Activities Report by DUNN. The presence of underground utilities limited remedial efforts within Areas 4A and 4B during those previous remedial efforts. Recent site development, including the demolition of existing facility structures and the removal of all inactive/abandoned underground utilities, facilitated this additional soil remediation.

ANC retained Hazardous Remedial Services, Inc. (HRS) of San Jose, California to provide soil excavation services. The remedial activities were carried out in accordance with the Remedial Work Plan for Areas 2 and 4 (RUST; December, 1993) approved by the Alameda County Department of Environmental Health Care Services Agency (ACDEH). The remedial activities included the following:

- excavation and temporary on-site storage of impacted soil remaining after previous remediation efforts;
- management of groundwater encountered during excavation activities;
- post-excavation confirmatory sampling and analyses; and,
- sampling and analyses of stockpiled soil for subsequent off-site disposal.

2.0 PURPOSE, OBJECTIVES AND SCOPE OF REMEDIATION

Remedial measures were implemented to improve the environmental quality of the site so it can be redeveloped into a retail shopping center. The primary objectives of the remediation were to:

- eliminate or minimize potential health and environmental risks posed by impacted soils and groundwater;
- control or prevent the release of contaminants during remedial activities; and,
- provide the public with a beneficial use of the property.

To achieve these objectives, RUST excavated soil materials in Areas 4A and 4B.

Extensive soil and groundwater sampling and analysis has previously defined contaminant source areas and has adequately identified the contaminants of concern. In October and November, 1992, a gasoline UST and a portion of the impacted soils were removed during Area 4 remediation efforts. The limits of the 1992 excavation areas were restricted due to the proximity of underground utilities and building structures located within and adjacent to the former source areas. Since 1992, site development has included demolition of plant facility structures and removal of on-site utilities, thus allowing for complete removal of impacted soils within Areas 4A and 4B. Area 4A extends along the southern perimeter of the site in the vicinity of the former compound storage building. Area 4B is located adjacent to the former product pipeline, south of the former location of Building 12 (Figure 2).

3.0 DESCRIPTION OF REMEDIAL ACTIVITIES

HRS mobilized to the site on November 2, 1994. Excavation of impacted soils took place from November 3, 1994 through November 8, 1994 in Area 4A, and on November 7, 1994 in Area 4B.

As each excavation proceeded, the RUST representative monitored the soils with an HNU model PI-101 photoionization detector (PID). All soils exhibiting a PID response of greater than 10 ppm were temporarily stockpiled on-site on polyethylene sheeting. Excavation activities continued until PID readings below 10 ppm were obtained. Approximately 3000 cubic yards of impacted soil were excavated and staged (Area 4A-2550yd³; Area 4B-450yd³). Treatment and/or disposal options are currently being evaluated.

The lateral and vertical extent of both excavations is shown in Figure 2. Excavation depth was approximately 14 feet in Area 4A, extending approximately 4 feet below the water table. Six fractionation tanks were mobilized to the site and used to store groundwater and precipitation that infiltrated the open excavation. Water was pumped from the excavation via vac truck into the tanks. The water is currently being stored on-site pending disposal options. Area 4B was excavated to a total depth of approximately 6 feet. Groundwater was not encountered within the excavation.

4.0 POST EXCAVATION CONFIRMATION SAMPLING AND ANALYSIS

RUST collected 11 post excavation samples at an interval of no more than 20 feet along the excavation walls to confirm that the impacted soil had been removed to the extent necessary to reach the remedial objectives.

Fourteen post excavation soil samples (samples A4A-1 through A4A-14) were collected from the sidewalls of the Area 4A excavation (Figure 2). All samples were collected from the base of the olive-gray, silty clayey gravel unit at a depth of 8.5 feet below original surface grade. The sampling zone was within the capillary fringe which is presumed to be the zone exhibiting the highest potential for the migration of contaminants. Samples A4A-1 through A4A-10 and samples A4A-12 through A4A-14 were taken 1 foot into the sidewall. Sample A4A-11 was taken approximately 0.7 feet into the sidewall. The excavation extended to a final depth of 14 feet, approximately 4 feet below the water table surface. As a result, RUST did not collect post excavation floor samples in Area 4A. Groundwater monitoring in Area 4A will be used to demonstrate the effectiveness of the below-water table soil excavation.

In area 4B, five post excavation soil samples were collected from the sidewalls and three samples (samples A4B-3, A4B-6 and A4B-7) were collected from the excavation floor. Sample A4B-7 was collected as a floor sample since the sidewall at this location consisted of gravel back fill material from previous (October, 1992) excavation activity. The locations of the post excavation samples are shown on Figure 2.

Each sample was labeled, placed in an ice-filled cooler and transported with an accompanying chain-of-custody to Anametrix Laboratories of San Jose, California, for analysis. The samples were analyzed for BTEX (benzene, toluene, ethylbenzene, and xylene) and total petroleum hydrocarbons as gasoline (TPHg) by California Department of Health Services approved methods. The results are presented in Appendix A.

5.0 POST EXCAVATION ANALYTICAL RESULTS

The results of post excavation sample analyses are summarized on Table 1 and the laboratory reports are provided as Appendix A. For all samples analyzed, concentrations of all BTEX compounds were either not detected at the laboratory reporting limit or were detected at very low concentrations. Benzene or toluene were not detected in any of the twenty-two samples tested, at a detection limit of 5 parts per billion (ppb). Ethylbenzene was detected in only one sample (A4A-2) at a concentration of 5 ppb. Total xylenes were detected in four of the twenty-two samples tested at concentrations ranging from 6 to 20 ppb. TPH as gasoline was not detected in any sample at a laboratory reporting limit of 0.5 ppm. The data demonstrate that the excavation activities were sufficient to effectively remediate the impacted soil to the maximum extent feasible. Excavations 4A and 4B were backfilled and compacted with clean fill material from an off-site source during the period November 17, 1994 through November 23, 1994.

6.0 SAMPLING AND ANALYSIS OF STOCKPILED SOIL

Approximately 3000 cubic yards of impacted soil from Areas 4A and 4B was stockpiled on plastic sheeting. On November 14, 1994, RUST personnel collected a composite sample of the stockpiled soil to characterize the material for disposal. The sample (sample A4SS) was analyzed for volatile organics by EPA Method 8240, BTEX by EPA Method 8020, TPHg by EPA Method 8015, Total Recoverable Petroleum Hydrocarbons by Cal-DHS Standard Method 5520EF, and for Cadmium, Chromium, Lead, Nickel and Zinc by EPA Method 6010A, and for Organic Lead. The stockpiled soil from excavation activities in Area 4 was tentatively accepted for disposal in the BFI Vasco landfill facility based on the analyses described here and the analytical results presented in Appendix B.

A soil sample also was collected from the imported clean fill sand which was used to backfill the Area 4 excavations. The sample (A4A-SAND) was analyzed for BTEX and total petroleum hydrocarbons as gasoline (TPHg) by California Department of Health Services approved methods. In sample A4A-SAND, concentrations of BTEX compounds and TPHg were reported as not detected at or above the practical quantitation limit for the respective analytical method. The laboratory analytical report for this sample is included in Appendix A.

7.0 SAMPLING AND ANALYSIS OF EXCAVATION WATER

On November 10, 1994, RUST personnel collected a water sample from the excavation pit prior to excavation de-watering. The sample (A4A-PW) was analyzed for EPA Method 8240 volatile organic compounds and for 17 CAM metals by EPA method 6010. Analytical results are included in Appendix C. Total Xylene was reported at 310 ug/L. Consequently, approximately 120,000 gallons of excavation water were pumped into six fractionation tanks to de-water the excavation so that proper compaction of excavation backfill could be performed. On November 22, 1994, RUST personnel collected a water sample from each fractionation tank for waste characterization purposes. Each sample was analyzed for volatile organic compounds and for the 17 CAM metals by EPA Method 6010. Analytical results for the six tank samples, labelled A4A-BKTK1 through A4A-BKTK6, are presented in Appendix D.

8.0 CONCLUSIONS

The November, 1994 Area 4 soil excavation activities included the removal of approximately 3000 cubic yards of impacted soil. In addition, approximately 120,000 gallons of water were pumped from the excavation into portable storage tanks. The soil and water are temporarily staged and stored on-site as RUST evaluates off-site disposal options.

The laboratory analytical results from the post excavation samples collected revealed only very low ppb level concentrations of petroleum-related constituents in four of the twenty-two samples tested. These results demonstrate that the measures undertaken were successful in remediating Area 4 soils to the maximum extent feasible in accordance with the approved Remedial Work Plan for Areas 2 and 4.

TABLES

TABLE 1 AMERICAN NATIONAL CAN COMPANY OAKLAND, CALIFORNIA, FACILITY

Summary of Post Excavation Soil Sampling Analytical Results AREA 4 REMEDIAL ACTIVITIES

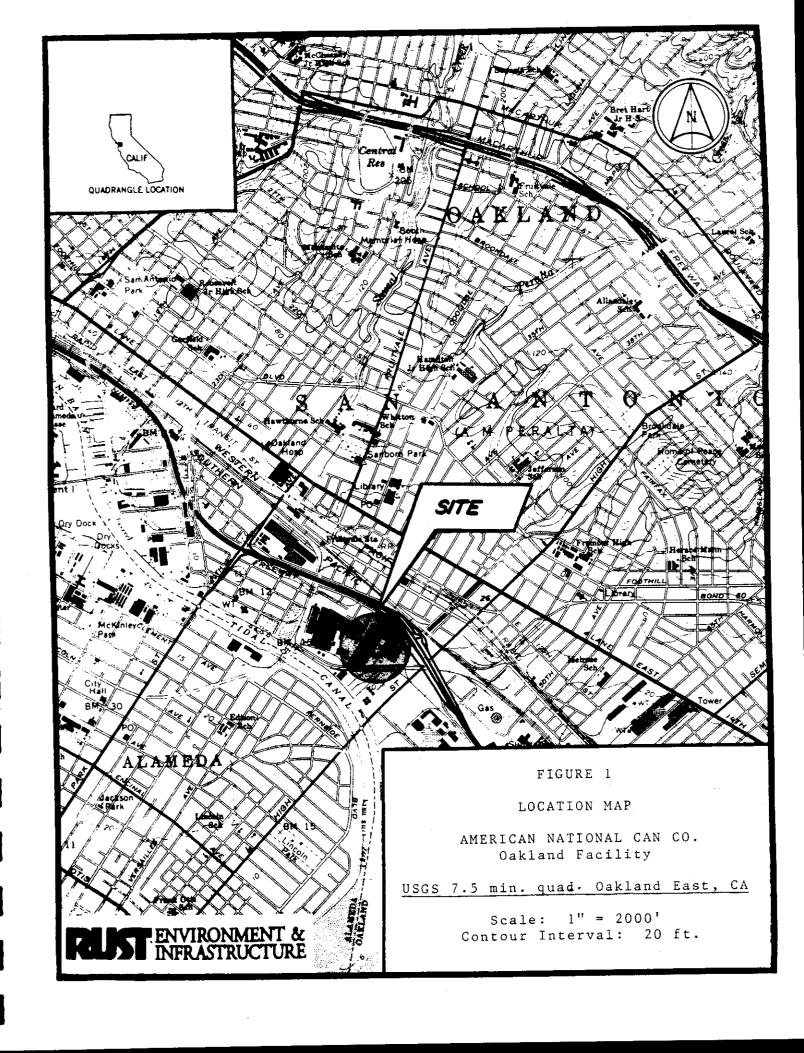
(November, 1994)

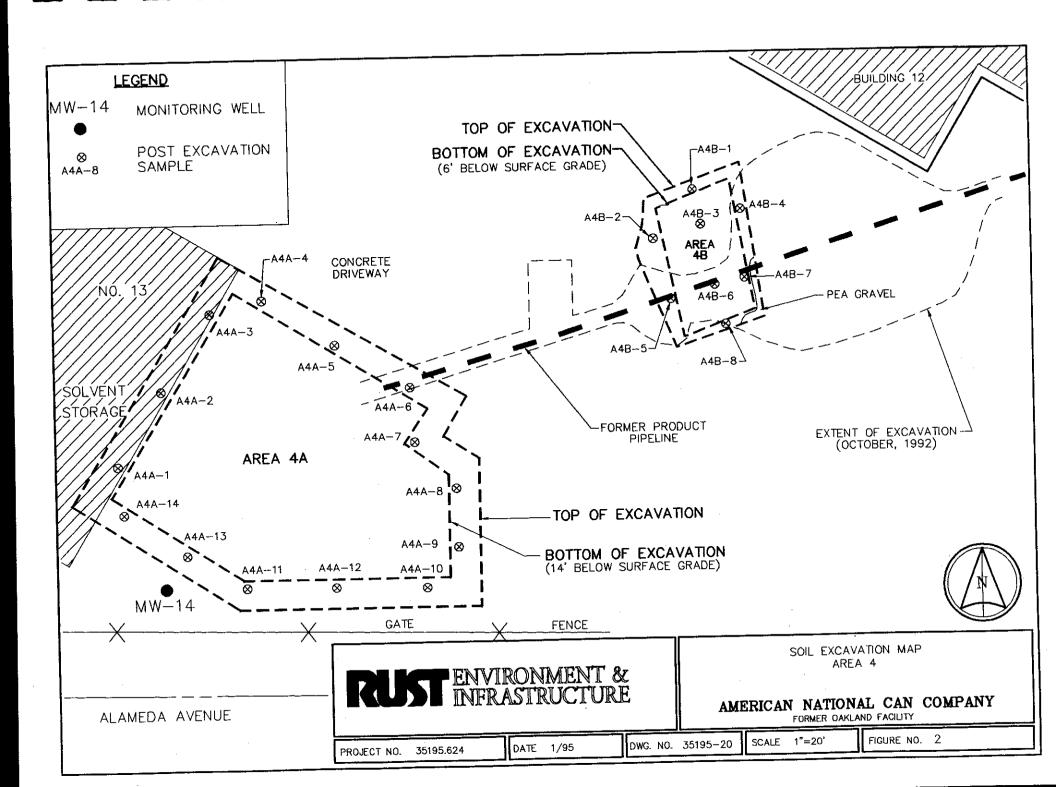
SAMPLE NUMBER	ANALYTICAL RESULTS							
SAMPLE NUMBER	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH as Gasoline			
A4A-1	ND	ND	ND	0.006	ND			
A4A-2	ND	ND	0.006	0.020	ND			
A4A-3	ND	ND	ND	0.008	ND			
A4A-4	ND	ND	ND	ND	ND			
A4A-5	ND	ND	ND	ND	ND			
A4A-6	ND	ND	ND	ND	ND			
A4A-7	ND	ND	ND	ND	ND			
A4A-8	ND	ND	ND	ND	ND			
A4A-9	ND	ND	ND	ND	ND			
A4A-10	ND	ND	ND	ND	ND			
A4A-11	ND	ND	ND	ND	ND			
A4A-12	ND	ND	ND	ND	ND			
A4A-13	ND	ND	ND	ND	ND			
A4A-14	ND	ND	ND	ND	ND			
A4B-1	ND	ND	ND	ND	ND			
A4B-2	ND	ND	ND	ND	ND			
A4B-3	ND	ND	ND	ND	ND			
A4B-4	ND	ND	ND	ND	ND			
A4B-5	ND	ND	ND	ND	ND			
A4B-6	ND	ND	ND	0.009	ND			
A4B-7	ND	ND	ND	ND	ND			
A4B-8	ND	ND	ND	ND	ND			

NOTES: All analytical results are expressed in mg/kg (parts per million).

Method detection limit (MDL) for benzene, toluene, ethylbenzene and total xylenes = 0.005 mg/kgMethod detection limit (MDL) for TPH as gasoline = 0.5 mg/kg

FIGURES





APPENDIX A

Laboratory Analytical Report-Area 4 Post-Excavation Samples and Clean Fill Sand Sample

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

MR. WALTER HOWARD

RUST ENVIRONMENT AND INFRASTRUCTURE

12 METRO PARK ROAD ALBANY, NY 12205

Workorder # Date Received: 11/08/94

: 9411099

Project ID

: 35195.624 Purchase Order: N/A

The following samples were received at Anametrix for analysis:

ANAMETRIX ID	CLIENT SAMPLE ID
9411099- 1	A4A-1
9411099- 2	A4A-2
9411099- 3	A4A-3
9411099- 4	A4A-4
9411099- 5	A4A-5
9411099- 6	A4A-6
9411099- 7	A4A-7
9411099- 8	A4A-8
9411099- 9	A4A-9
9411099-10	A4A-10
9411099-11	A4A-11
9411099-12	A4A-12

This report is organized in sections according to the specific Anametrix laboratory group which performed the analysis(es) and generated the data.

The results contained within this report relate to only the sample(s) tested. Additionally, these data should be considered in their entirety and Anametrix cannot be responsible for the detachment, separation, or otherwise partial use of this report.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234.

If you have any further questions or comments on this report, please call your project manager as soon as possible. Thank you for using Incape Testing Services.

Susan Kraska Yeager

Laboratory Director

This report consists of /

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

MR. WALTER HOWARD

RUST ENVIRONMENT AND INFRASTRUCTURE

12 METRO PARK ROAD

ALBANY, NY 12205

Workorder # : 9411099
Date Received : 11/08/94
Project ID : 35195.624
Purchase Order: N/A
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9411099- 1	A4A-1	SOIL	11/08/94	TPHgBTEX
9411099- 2	A4A-2	SOIL	11/08/94	TPHgBTEX
9411099- 3	A4A-3	SOIL	11/08/94	TPHgBTEX
9411099- 4	A4A-4	SOIL	11/08/94	TPHgBTEX
9411099- 5	A4A-5	SOIL	11/08/94	TPHgBTEX
9411099- 6	A4A-6	SOIL	11/08/94	TPHgBTEX
9411099- 7	A4A-7	SOIL	11/08/94	TPHgBTEX
9411099- 8	A4A-8	SOIL	11/08/94	TPHgBTEX
9411099- 9	A4A-9	SOIL	11/08/94	TPHgBTEX
9411099-10	A4A-10	SOIL	11/08/94	TPHgBTEX
9411099-11	A4A-11	SOIL	11/08/94	TPHgBTEX
9411099-12	A4A-12	SOIL	11/08/94	ТРНЭВТЕХ

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

MR. WALTER HOWARD RUST ENVIRONMENT AND INFRASTRUCTURE

12 METRO PARK ROAD ALBANY, NY 12205

Workorder # : 9411099
Date Received : 11/08/94
Project ID : 35195.624
Purchase Order: N/A

Purchase Order: N/A
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- All holding times have been met for the analyses reported in this section.

Department Supervisor

11/1/2 Date

Reggie Tauson 11/14/94
Chemist Date

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

Lab Workorder : 9411099

Client Project ID: 35195.624

Matrix : SOIL

Units : mg/Kg

		Client ID				
	Method	A4A-1	A4A-2	A4A-3	A4A-4	A4A-5
	Reporting	Lab ID				
Compound Name	Limit*	9411099-01	9411099~02	9411099-03	9411099-04	9411099-05
Benzene	0.0050	ND	ND	ND	ND	ND
Toluene	0.0050	ND	ND	ND .	ND	ND
Ethylbenzene	0.0050	ND	0.006	ND	ND	ND
Total Xylenes	0.0050	0.006	0.020	0.008	ND	ND
TPH as Gasoline	0.50	ND	ND	ND	ND	ND
Surrogate Recovery		73%	68%	84%	86%	90%
Instrument ID		HP4	HP4	HP4	HP4	HP4
Date Sampled		11/08/94	11/08/94	11/08/94	11/08/94	11/08/94
Date Analyzed		11/09/94	11/09/94	11/09/94	11/09/94	11/09/94
RLMF		1	1	1	1	1
Filename Reference		FPN09901.D	FPN09902.D	FPN09903.D	FPN09904.D	FPN09905.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 53-147%.

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

nalyst Dueson 1/14/94
Date

Supervisor

Date

Organic Analysis Data Sheet

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

Lab Workorder : 9411099

Client Project ID: 35195.624

Matrix : SOIL

Units : mg/Kg

		Client ID				
	Method	A4A-6	A4A-7	A4A-8	A4A-9	A4A-10
	Reporting	Lab ID				
Compound Name	Limit*	9411099-06	9411099-07	9411099-08	9411099-09	9411099-10
Benzene	0.0050	ND	ND	ND	ND	ND
Toluene	0.0050	ND	ND	ND	ND	ND
Ethylbenzene	0.0050	ND	ND	ND	ND	ND
Total Xylenes	0.0050	ND	ND	ND	ND	ND
TPH as Gasoline	0.50	ND	ND	ND	ND	ND
Surrogate Recovery		97%	106%	101%	105%	108%
Instrument ID		HP4	HP4	HP12	HP12	HP12
Date Sampled		11/08/94	11/08/94	11/08/94	11/08/94	11/08/94
Date Analyzed		11/09/94	11/09/94	11/10/94	11/10/94	11/10/94
RLMF		1	1	1	1	1
Filename Reference		FPN09906.D	FPN09907.D	FPN09908.D	FPN09909.D	FPN09910.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 53-147%.

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

Reggie Dawson 11/14/94

Analyst Date

Supervisor

14/54

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

Lab Workorder : 9411099 Client Project ID: 35195.624

Matrix : SOIL Units : mq/Kq

		Client ID	Client ID	Client ID	Client ID	Client ID
	Method	A4A-11	A4A-12			
	Reporting	Lab ID	Lab ID	Lab ID	Lab ID	Lab ID
Compound Name	Limit*	9411099-11	9411099-12	Method Blank	Method Blank	
Benzene	0.0050	ND	ND	ND	ND	
Toluene	0.0050	ND	. ND	ND	ND	
Ethylbenzene	0.0050	ND	ND	ND	ND	
Total Xylenes	0.0050	ND	ND	ND	ND	
TPH as Gasoline	0.50	ND	ND	ND	ND	
Surrogate Recovery		97%	103%	100%	107%	
Instrument ID		HP12	HP12	HP4	HP12	
Date Sampled		11/08/94	11/08/94	N/A	N/A	
Date Analyzed		11/10/94	11/10/94	11/09/94	11/10/94	
RLMF		1	1	1	1	
Filename Reference		FPN09911.D	FPN09912.D	BN0901E1.D	BN1001E1.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.

: 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 53-147%.

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

Reggie Dawson 11/14/94
Analyst

Matrix Spike Report

Total Petroleum Hydrocarbons as BTEX ITS - Anametrix Laboratories - (408)432-8192

Project ID : 35195.62 Laboratory ID : 9411099-01

Sample ID

: A4A-1

Analyst : ANS

Matrix

Supervisor :

: SOIL

Instrument ID: HP4

Date Sampled

: 11/08/94

COMPOUND NAME	SPIKE	SAMPLE	MS	MSD	RECOVERY	RPD	RPD
	AMOUNT	RESULTS	RECOVERY	RECOVERY	LIMITS		LIMITS
Benzene	0.040	ND	83%	68%	45-139	20%	30
Toluene	0.040	ND	115%	68%	51-138	52%	30
Ethylbenzene	0.040	ND	88%	70%	48-146	22%	30
Total Xylenes	0.040	0.006	79%	61%	50-139	25%	30
Surrogate Recovery		73%	84%	64%			
Date Analyzed		11/09/94	11/09/94	11/09/94			
Multiplier		1	1	1			
Filename Reference		FPN09901.D	FMN09901.D	FNN09901.D			

^{*} Limits established by Inchcape Testing Services, Anametrix Laboratories.

Matrix Spike Report

Total Petroleum Hydrocarbons as BTEX ITS - Anametrix Laboratories - (408)432-8192

Project ID

: 35195.62

Laboratory ID : 9411099-12

Sample ID

: A4A-12

Analyst : RD

Matrix

: SOIL

Supervisor : 3

Date Sampled : 11/08/94

Instrument ID : HP12

COMPOUND NAME	SPIKE AMOUNT	SAMPLE RESULTS	MS RECOVERY	MSD RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS
Dongono	0.040	ND	103%	103%	45-139	0%	30
Benzene Toluene	0.040	ND	103%	103%	51-138	0%	30
Ethylbenzene	0.040	ND	100%	100%	48-146	0%	30
Total Xylenes	0.040	ND	103%	100%	50 - 139	2%	30
Surrogate Recovery		103%	90%	90%			
Date Analyzed		11/10/94	11/10/94	11/10/94			
Multiplier		1	1	1			
Filename Reference		FPN09912.D	FMN09912.D	FDN09912.D			

^{*} Limits established by Inchcape Testing Services, Anametrix Laboratories.

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

Instrument ID : HP4

Analyst : N

Matrix

: SOLID

Supervisor : 0

COMPOUND NAME	SPIKE	LCS	RECOVERY
COMPOUND NAME	AMOUNT	RECOVERY	LIMITS
	AMOUNT	RECOVERT	111111111111111111111111111111111111111
Benzene	0.020	100%	52-133
Toluene	0.020	95%	57-136
Ethylbenzene	0.020	100%	56-139
Total Xylenes	0.020	95%	56-141
			1
Surrogate Recovery		102%	53-147
Date Analyzed		11/09/94	
Multiplier		1	
Filename Reference		MN0901E1.D	

^{*} Limits established by Inchcape Testing Services, Anametrix Laboratories.

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

Instrument ID : HP12

Analyst : 20

Matrix

: SOLID

Supervisor : #

COMPOUND NAME	SPIKE	LCS	RECOVERY
	AMOUNT	RECOVERY	LIMITS
Benzene	0.020	70%	52-133
Toluene	0.020	65%	57-136
Ethylbenzene	0.020	75%	56-139
Total Xylenes	0.020	95%	56-141
Surrogate Recovery		32%	53-147
Date Analyzed		11/10/94	
Multiplier		1	
Filename Reference		MN1001E1.D	

^{*} Limits established by Inchcape Testing Services, Anametrix Laboratories.

SAMPLE RECEIVING CHECKLIST

WORKORDER NUMBER:	9411099	CLIENT PROJECT ID: _	35195,62	4	
COOLER					
Shipping slip (airbill, etc.) present	?		YES	NO	N/A
If YES, enter carrier name and a		•			
Custody Seal on the outside of co			YES	NO	(N/A)
Condition: INTACT	BROKEN				
Temperature of sample (s) within	range?		YES) NO	N/A
List temperature of cooler (s):	1100				
<u> </u>					
SAMPLES					
Chain of custody seal present for			YES	NO	N/A
Condition: INTACT	BROKEN			*	
Samples arrived within holding time			YES	NO	N/A
Samples in proper containers for			YES) NO	
Condition of containers: INTA		KEN			
If NO, were samples transferred					
Were VOA containers received w			YES	NO	N/A
If NO, was it noted on the chain				<u> </u>	
Were container labels complete?		tive, etc.)	YES		A
Were samples preserved with the		:	YES	NO	(N/A)
If NO, was the proper preservat		eipt?	· · · · · · · · · · · · · · · · · · ·	<u> </u>	· .
pH check of samples required at			YES	NO	,
If YES, pH checked and record		. 10		210	
Sufficient amount of sample rece			YES	NO	
If NO, has the client or lab proje		d'?			75.
Field blanks received with sample			YES		N/A
Trip blanks received with sample	batch? # of Sets:	· · · · · · · · · · · · · · · · · · ·	YES	NO	(N/A)
CHAIN OF CUSTODY					
Chain of custody received with s	amples?		YES) NO	
Has it been filled out completely	and in ink?		YES	ン NO	
Sample ID's on chain of custody	agree with container lab	els?	YES		
Number of containers indicated of	on chain of custody agre	e with number received?	YES		<u></u>
Analysis methods clearly specifie	d?		YES	-	
Sampling date and time indicated			YES	-	
Proper signatures of sampler, con	urier, sample custodian i	n appropriate place? with time	and date? YES	NO	
Turnaround time? REGULAR	RUSH				
Any NO response and/or ar	y "BROKEN" that was	checked must be detailed in the	e Corrective Acti	on For	m.
Sample Custodian:	Date: 11/8/94	Project Manager:	(A) Date:	11/9	7/94

RUST ENVIRONMENT & INFRASTRUCTURE

48 per Kilman, s. 11/8/74 24 Hour RUSH T.A.T.

9411099 (2) 16.158

Chain of Custody Record

WAHLER LABLES

												C	ustody	Seal	#		RI	JST	E&I	Coole	r #			
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1961 Concourse Drive Suite E San Jose, CA 95131 Tel: 408-432-8192 Fax: 408-432-8198

MR. WALTER HOWARD

RUST ENVIRONMENT AND INFRASTRUCTURE

12 METRO PARK ROAD ALBANY, NY 12205

Workorder # Date Received: 11/18/94 Project ID: 35195.624

: 9411215

Purchase Order: N/A

The following samples were received at Anametrix for analysis:

ANAMETRIX ID	CLIENT SAMPLE ID
9411215- 1	A4A-13
9411215- 2	A4A-14
9411215- 3	A4A-SAND

This report is organized in sections according to the specific Anametrix laboratory group which performed the analysis(es) and generated the data.

The results contained within this report relate to only the sample(s) tested. Additionally, these data should be considered in their entirety and Anametrix cannot be responsible for the detachment, separation, or otherwise partial use of this report.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234.

If you have any further questions or comments on this report, please call your project manager as soon as possible. Thank you for using Inchcape Testing Services.

Susan Kraska Yeager

Laboratory Director

Date

This report consists of $\underline{\bigcirc}$ pages.

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

MR. WALTER HOWARD

RUST ENVIRONMENT AND INFRASTRUCTURE

12 METRO PARK ROAD ALBANY, NY 12205

Workorder # : 9411215 Date Received : 11/18/94 Project ID : 35195.624

Purchase Order: N/A
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9411215- 1	A4A-13	SOIL	11/18/94	TPHgBTEX
9411215- 2	A4A-14	SOIL	11/18/94	TPHgBTEX
9411215- 3	A4A-SAND	SOIL	11/18/94	TPHgBTEX

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

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE

12 METRO PARK ROAD ALBANY, NY 12205

Workorder # : 9411215 Date Received : 11/18/94 Project ID : 35195.624

Purchase Order: N/A
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- All holding times have been met for the analyses reported in this section.

- The xylene recoveries for the matrix spike and spike duplicate on sample A4A-SAND are oustside of quality control limits due to a soil matrix effect.

Cheugh Balmen Department Supervisor /*|/30/84* Date

Chemist

ua Sher 11/30/94 Date

<u>\$</u>

GC/TPH- PAGE 2

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS (GASOLINE WITH BTEX) ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9411215
Matrix : SOIL

Date Sampled: 11/18/94

Project Number: 35195.624 Date Released: 11/29/94

	Reporting Limit	Sample I.D.# A4A-13	Sample I.D.# A4A-14	Sample I.D.# A4A-SAND	Sample I.D.# BN2101E1	Sample I.D.# BN2202E1
COMPOUNDS	(mg/Kg)	-01	-02	-03	BLANK	BLANK
Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline % Surrogate Rec Instrument I.I Date Analyzed RLMF		ND ND ND ND ND 94% HP21 11/21/94	ND ND ND ND ND 105% HP21 11/22/94	ND ND ND ND ND 140% HP21 11/22/94	ND ND ND ND ND 104% HP21 11/21/94	ND ND ND ND ND 108% HP21 11/22/94

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.

RLMF - Reporting Limit Multiplication Factor.

Anametrix control limits for surrogate p-Bromofluorobenzene recovery are 53-147%.

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

Analyst Date

Cheyl Balms 12/, 19-1 Supervisor Date

TOTAL VOLATILE HYDROCARBON MATRIX SPIKE REPORT EPA METHOD 5030 WITH GC/FID ANAMETRIX, INC. (408) 432-8192

: 35195.624 A4A-13 Sample I.D.

Anametrix I.D.: 9411215-01

Matrix

: SOIL

Date Sampled: 11/18/94 Date Analyzed: 11/21/94

: 3,5 Analyst Supervisor : 50
Date Released : 11/29/94
Instrument ID : HP21

COMPOUND	SPIKE AMT (mg/Kg)	SAMPLE CONC (mg/Kg)	REC % MS (mg/Kg)	REC MS	REC MD (mg/Kg)	% REC MD	RPD	% REC LIMITS *	
GASOLINE	1.00	0	0.90	90%	0.87	87%	-3%	48-149	
P-BFB				91% 		103%		53-147	

^{*} Quality control limits established by Anametrix, Inc.

TOTAL VOLATILE HYDROCARBON MATRIX SPIKE REPORT EPA METHOD 5030 WITH GC/PID ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 35195.624 A4A-SAND Anametrix I.D.: 9411215-03

: 73 Analyst Matrix : SOIL Date Sampled : 11/18/94

Supervisor : ∞ Date Released : 11/29/94 Date Analyzed: 11/22/94

Instrument I.D.: HP21

COMPOUND	SPIKE AMT (mg/Kg)	SAMPLE CONC (mg/Kg)	REC MS (mg/Kg)	% REC MS	REC MD (mg/Kg)	% REC MD	RPD	% REC LIMITS *
BENZENE TOLUENE ETHYLBENZENE TOTAL XYLENES	0.040 0.040 0.040 0.040	0.000 0.000 0.000 0.000	0.047 0.038 0.034 0.017	118% 95% 85% 43%	0.048 0.038 0.032 0.018	120% 95% 80% 45%	2% 0% -6% 6%	45-139 51-138 48-146 50-139
p-BFB				132%		140%		53-147

^{*} Quality control limits established by Anametrix, Inc.

TOTAL VOLATILE HYDROCARBON LABORATORY CONTROL SAMPLE REPORT EPA METHOD 5030 WITH GC/FID ANAMETRIX, INC. (408) 432-8192

Sample I.D. : LAB CONTROL SAMPLE

Anametrix I.D.: MN2103E1

Matrix : SOIL

Analyst : Is Supervisor : Co

Date Sampled : N/A
Date Analyzed : 11/21/94

Date Released : 11/29/94 Instrument I.D.: HP21

COMPOUND	SPIKE AMT. (mg/Kg)	REC LCS (mg/Kg)	%REC LCS	% REC LIMITS *
GASOLINE	0.50	0.44	88%	58-130
p-BFB			105%	53-147
	 liwita oatablic	hed by Anametri	x. Inc.	\$

^{*} Quality control limits established by Anametrix, Inc.

TOTAL VOLATILE HYDROCARBON LABORATORY CONTROL SAMPLE REPORT EPA METHOD 5030 WITH GC/PID ANAMETRIX, INC. (408) 432-8192

Sample I.D. : LAB CONTROL SAMPLE Anametrix I.D.: MN2203E1

Matrix : SOIL
Date Sampled : N/A
Date Analyzed : 11/22/94 Analyst : \widehat{I}^{S} Supervisor : \mathcal{O}^{S}

Date Released : 11/29/94

Instrument ID : HP21

COMPOUND	SPIKE AMT (mg/Kg)	LCS (mg/Kg)	%REC LCS	%REC LIMITS *	
BENZENE TOLUENE ETHYLBENZENE TOTAL-XYLENES	0.020 0.020 0.020 0.020	0.019 0.019 0.021 0.020	95% 95% 105% 100%	52-133 57-136 56-139 56-141	
SURROGATE			114%	53-147	\$

^{*} Quality control limits established by Anametrix, Inc.

SAMPLE RECEIVING CHECKLIST

WORKORDER NUMBER: 9411315 CLIENT PROJECT ID: 35195.L	,24		
	•		
COOLER Still view alie (sighill etc.) present?	YES	NO	N/A)
Shipping slip (airbill, etc.) present?			
If YES, enter carrier name and airbill #: Custody Seal on the outside of cooler?	YES	NO	(N/A)
Condition. 11411161	(YES)	NO	N/A
Temperature of sample (s) within range? List temperature of cooler (s): 5°C			
List temperature of cooler (s): 5°C			
SAMPLES	3750	NO	(N/A)
Chain of custody seal present for each container?	YES	NO	(N/A)
Condition: INTACT BROKEN			
Samples arrived within holding time?	YES)	NO	N/A
Samples in proper containers for methods requested?	(YES)	МО	
Condition of containers: INTACT BROKEN			
If NO, were samples transferred to proper container?			
Were VOA containers received with zero headspace?	YES	NO	(N/A)
If NO, was it noted on the chain of custody?			
Were container labels complete? (ID, date, time preservative, etc.)	YES	NO	
Were samples preserved with the proper preservative?	YES	NO	N/A
If NO, was the proper preservative added at time of receipt?		(VIO	
pH check of samples required at time of receipt?	YES	(NO)	·
If YES, pH checked and recorded by:		NIO	
Sufficient amount of sample received for methods requested?	YES	NO	
If NO, has the client or lab project manager been notified?			(N/A)
Field blanks received with sample batch? # of Sets:	YES	NO	
Trip blanks received with sample batch? # of Sets:	YES	NO	(N/A)
CHAIN OF CUSTODY			
Chain of custody received with samples?	YES	NO	
Has it been filled out completely and in ink?	(YES) NO	
Sample ID's on chain of custody agree with container labels?	(YES)	NO	<u></u>
Number of containers indicated on chain of custody agree with number received?	YES) NO	
Analysis methods clearly specified?	(YES)	NO	
Sampling date and time indicated?	· (YES)	NO	
Proper signatures of sampler, courier, sample custodian in appropriate place? with time and date?	YES	NO	
P Live DECLI AP RUSH			
Any NO response and/or any "BROKEN" that was checked must be detailed in the Correction	ve Actio	n For	m.
Sample Custodian: 78/ Date: 11/18/94 Project Manager: 4w			

EUST ENVIRONMENT & INFRASTRUCTURE

STANDARD TURN AROUND TIME



Chain of Custody Record

WAHLER LABLES

													Cust	ody S	Seal #			RU	ST E	&I Co	oler#	!			
Projec	t Number	Project Name/C	Client									Anal	ysis	Requ	iired							M	аціх		
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1961 Concourse Drive Suite E San Jose, CA 95131 Tel: 408-432-8192 Fax: 408-432-8198

MR. WALTER HOWARD RUST ENVIRONMENT AND INFRASTRUCTURE

12 METRO PARK ROAD ALBANY, NY 12205

Workorder # : 9411079
Date Received : 11/07/94
Project ID : 35195.624
Purchase Order: E-25237

The following samples were received at Anametrix for analysis:

ANAMETRIX ID	CLIENT SAMPLE ID
9411079- 1	A4B-1
9411079- 2	A4B-2
9411079- 3	A4B-3
9411079- 4	A4B-4
9411079- 5	A4B-5
9411079- 6	A4B-6
9411079- 7	A4B-7
9411079- 8	A4B-8

This report is organized in sections according to the specific Anametrix laboratory group which performed the analysis(es) and generated the data.

The results contained within this report relate to only the sample(s) tested. Additionally, these data should be considered in their entirety and Anametrix cannot be responsible for the detachment, separation, or otherwise partial use of this report.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234.

If you have any further questions or comments on this report, please call your project manager as soon as possible. Thank you for using Incape Testing Services.

Susan Kraska Yeager

Project Manager

Laboratory Director

7/ /@ Date

This report consists of \(\frac{1}{2}\) pages.

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

MR. WALTER HOWARD

RUST ENVIRONMENT AND INFRASTRUCTURE

12 METRO PARK ROAD ALBANY, NY 12205

Workorder # : 9411079
Date Received : 11/07/94
Project ID : 35195.624
Purchase Order: E-25237

Department: GC Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9411079- 1	A4B-1	SOIL	11/07/94	TPHgBTEX
9411079- 2	A4B-2	SOIL	11/07/94	ТРНЭВТЕХ
9411079- 3	A4B-3	SOIL	11/07/94	TPHgBTEX
9411079- 4	A4B-4	SOIL	11/07/94	трндвтех
9411079- 5	A4B-5	SOIL	11/07/94	ТРНЭВТЕХ
9411079- 6	A4B-6	SOIL	11/07/94	TPHgBTEX
9411079- 7	A4B-7	SOIL	11/07/94	TPHgBTEX
9411079- 8	A4B-8	SOIL	11/07/94	TPHgBTEX

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

MR. WALTER HOWARD RUST ENVIRONMENT AND INFRASTRUCTURE 12 METRO PARK ROAD

Workorder # : 9411079 Date Received: 11/07/94 Project ID: 35195.624 Purchase Order: E-25237

Department : GC Sub-Department: TPH

QA/QC SUMMARY :

ALBANY, NY 12205

- All holding times have been met for the analyses reported in this section.

Department Supervisor

Chemist Taison 1/14/94

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS (GASOLINE WITH BTEX) ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9411079 Matrix : SOIL Date Sampled : 11/07/94 Project Number: 35195.624 Date Released: 11/14/94

	Reporting Limit	Sample I.D.# A4B-1	Sample I.D.# A4B-2	Sample I.D.# A4B-3	Sample I.D.# A4B-4	Sample I.D.# A4B-5
COMPOUNDS	(mg/Kg)	-01	-02	-03	-04	- 05
Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline % Surrogate Rec Instrument I. Date Analyzed RLMF	D	ND ND ND ND ND 109% HP21 11/09/94	ND ND ND ND ND 11/09/94	ND ND ND ND ND 106% HP21 11/09/94	ND ND ND ND ND 97% HP21 11/09/94	ND ND ND ND ND ND 11/09/94

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.

RLMF - Reporting Limit Multiplication Factor.

Anametrix control limits for surrogate p-Bromofluorobenzene recovery are 53-147%.

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

Regge Dauson 11/14/94
Analyst Date

Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS (GASOLINE WITH BTEX) ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9411079
Matrix : SOIL

Date Sampled: 11/07/94

Project Number: 35195.624
Date Released: 11/14/94

	Reporting Limit	Sample I.D.# A4B-6	Sample I.D.# A4B-7	Sample I.D.# A4B-8	Sample I.D.# BN0901E1	
COMPOUNDS	(mg/Kg)	-06	-07 	-08	BLANK	
Benzene Toluene Ethylbenzene Total Xylenes TPH as Gasoline	0.005 0.005 0.005 0.005 0.5	ND ND ND 0.009 ND	ND ND ND ND	ND ND ND ND	ND ND ND ND ND	
<pre>% Surrogate Rec Instrument I. Date Analyzed RLMF</pre>	D.	109% HP21 11/09/94 1	110% HP21 11/09/94	87% HP21 11/09/94	97% HP21 11/09/94 1	*

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.

RLMF - Reporting Limit Multiplication Factor.

Anametrix control limits for surrogate p-Bromofluorobenzene recovery are 53-147%.

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

Reggie Dawson 11/16/94
Analyst Date

Supervisor Date

TOTAL VOLATILE HYDROCARBON LABORATORY CONTROL SAMPLE REPORT EPA METHOD 5030 WITH GC/FID ANAMETRIX, INC. (408) 432-8192

Sample I.D. : LAB CONTROL SAMPLE

Anametrix I.D.: MN0901E1

Matrix : SOIL

Date Sampled : N/A Date Analyzed: 11/09/94 Analyst : RD
Supervisor : c+
Date Released : 11/16/94
Instrument I.D.: HP21

COMPOUND	SPIKE AMT. (mg/Kg)	REC LCS (mg/Kg)	%REC LCS	% REC LIMITS *
GASOLINE	0.50	0.52	104%	58-130
Surrogate Reco	very		116%	53-147

^{*} Quality control limits established by Anametrix, Inc.

SAMPLE RECEIVING CHECKLIST

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		VES	NO	NIA
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APPENDIX B

Laboratory Analytical Report-Area 4 Stockpiled Soil Samples

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

MR. WALTER HOWARD RUST ENVIRONMENT AND INFRASTRUCTURE

12 METRO PARK ROAD ALBANY, NY 12205

: 9411161 Workorder # Date Received: 11/14/94 Project ID 35195.624

Purchase Order: N/A

The following samples were received at Anametrix for analysis:

ANAMETRIX ID	CLIENT SAMPLE ID
9411161- 1	A4SS
9411161- 2	B12SS

This report is organized in sections according to the specific Anametrix laboratory group which performed the analysis(es) and generated the data.

The results contained within this report relate to only the sample(s) tested. Additionally, these data should be considered in their entirety and Anametrix cannot be responsible for the detachment, separation, or otherwise partial use of this report.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234.

If you have any further questions or comments on this report, please call your project manager as soon as possible. Thank you for using Inchcape Testing Services.

Laboratory Director

This report consists of

ANAMETRIX REPORT DESCRIPTION GCMS

Organic Analysis Data Sheets (OADS)

DADS forms contain tabulated results for target compounds. The DADS 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 SC/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, <u>if</u> 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 "e", 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

Anametriz 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:

- ty 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.

PC/3374

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

MR. WALTER HOWARD

RUST ENVIRONMENT AND INFRASTRUCTURE

12 METRO PARK ROAD ALBANY, NY 12205

Workorder # : 9411161 Date Received: 11/14/94
Project ID: 35195.624
Purchase Order: N/A

Department : GCMS Sub-Department: GCMS

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9411161- 1	A4SS	SOIL	11/14/94	8240
9411161- 2	B12SS	SOIL	11/14/94	8240

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

MR. WALTER HOWARD
RUST ENVIRONMENT AND INFRASTRUCTURE

12 METRO PARK ROAD ALBANY, NY 12205

Workorder # : 9411161 Date Received : 11/14/94 Project ID : 35195.624

Purchase Order: N/A
Department : GCMS
Sub-Department: GCMS

QA/QC SUMMARY :

- All holding times have been met for the analyses reported in this section.

- The value reported for acetone in sample B12SS for EPA Method 8240 is near the laboratory background level when the dilution is taken into

- Samples B12SS and A4SS could not be analyzed at a lower dilution by EPA Method 8240 due to the high abundance of late eluting compounds.

Simil Swell 11-21-9
epartment Supervisor De

Chemist 11-21-54

Date

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8240 ANAMETRIX, INC. (408)432-8192

Project ID : 35195.62 : A4SS

Sample ID Matrix : SOIL

Date Sampled Date Analyzed :11/14/94 :11/19/94 Instrument ID : MSD1

Stodyna

Anametrix ID Analyst

: 9411161-01 : 57

Supervisor : M

Dilution Factor :

50.0 Conc. Units : ug/Kg

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	500.	ND	U
75-01-4	Vinyl chloride	500.	ND	lü
74-83-9	Bromomethane	500.	ND	ü
75 -00- 3	Chloroethane	500.	ND	Ü
75-69-4	Trichlorofluoromethane	- 250.	ND ND	ŭ
75-35-4	1,1-Dichloroethene	250.	ND	υ
76-13-1	Trichlorotrifluoroethane	7 250.	ND	ŭ
67-64-1	Acetone	1000.	ND	Ü
75 - 15-0	Carbon disulfide	250.	ND	Ü
75-09-2	Methylene chloride	250.	ND ND	บ็
156-60-5	Trans-1,2-dichloroethene	250.	ND	υ
75-34-3	1,1-Dichloroethane	250.	ND ND	י ט
156-59 - 2	Cis-1,2-dichloroethene	250.	ND	บั
78 - 93-3	2-Butanone	1000.	ND ND	Ü
67-66-3	Chloroform	250.	ND ND	Ü
71-55-6	1,1,1-Trichloroethane	250.	ND ND	Ü
56 - 23-5	Carbon tetrachloride	250.	ND ND	Ü
108-05-4	Vinyl acetate	500.	ND	Ü
71-43-2	Benzene	250.	ND ND	บ
107-06-2	1,2-Dichloroethane	250.	ND ND	
79-01 - 6	Trichloroethene	250.	ND ND	U
78 - 87-5	1,2-Dichloropropane	250.	ND	Ü
75-27-4	Bromodichloromethane	250.	ND ND	Ü
0061-01-5	Cis-1,3-dichloropropene	250.	ND ND	I II
108-10-1	4-Methyl-2-pentanone	500.	ND ND	n Lu
108-88-3	Toluene	250.	ND	1 -
0061-02-6	Trans-1,3-dichloropropene	250.		U
79-00-5	1,1,2-Trichloroethane	250.	ND	Ü
127-18-4	Tetrachloroethene	250.	ND	Ü
591-78-6	2-Hexanone	500.	ND	ប្រ
124-48-1	Dibromochloromethane	250.	ND	Ū
108-90-7	Chlorobenzene	250.	ND	Ū
100-41-4	Ethylbenzene		ND	Ù
1330-20-7	Xylene (Total)	250.	420.	/
100-42-5	Styrene (10tal)	250.	6600.	
75-25-2	Bromoform	250.	ND	U
79-34 - 5	1,1,2,2-Tetrachloroethane	250.	ND	U
541-73 - 1	1,1,2,2-retrachioroethane 1,3-Dichlorobenzene	250.	ND	U
106-46-7	1,3-Dichlorobenzene	250.	ND	U
95-50-1	1,4-Dichlorobenzene	250.	ND	U
22-20-1	1,2-Dichlorobenzene	250.	ND	U

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8240 ANAMETRIX, INC. (408)432-8192

Project ID : 35195.62 Sample ID : B12SS Matrix : SOIL Date Sampled :11/14/94

Date Sampled :11/14/94
Date Analyzed :11/21/94
Instrument ID : MSD2

Anametrix ID : 9411161-02

Analyst : Supervisor : M

Dilution Factor: 5.0

Conc. Units : ug/Kg

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	50.	ND	U
75-01-4	Vinyl chloride	- 50. 50.	ND	υ
74-83-9	Bromomethane	- 50.	ND	lΰ
75-00-3	Chloroethane	50.	ND	Ŭ
75-69-4	Trichlorofluoromethane	25.	ND	Ü
75-35-4	1,1-Dichloroethene	25.	ND	ี <u>บ</u>
76-13-1	Trichlorotrifluoroethane	25.	ND	Ŭ .
67-64-1	Acetone	100.	170.	
75-15-0	Carbon disulfide	25.	ND I	โบ
75-09-2	Methylene chloride	7 25.	ND	Ŭ
156-60-5	Trans-1,2-dichloroethene	25.	ND	Ŭ !
75-34-3	1,1-Dichloroethane	i 25. l	ND	ี้ บั
156-59-2	Cis-1,2-dichloroethene	25.	ND	บั
78-93-3	2-Butanone	100.	ND	ϋ
67-66-3	Chloroform	7 25	ND	บั
71-55-6	1,1,1-Trichloroethane	⁻ 25	ND	Ŭ
56-23-5	Carbon tetrachloride	25.	ND	Ŭ
108-05-4	Vinyl acetate	50.	ND	Ŭ
71-43-2	Benzene	25.	ND	Ŭ
107-06-2	1,2-Dichloroethane	25.	ND	Ü
79-01-6	Trichloroethene	25.	ND	υ
78-87-5	1,2-Dichloropropane	25.	ND	Ū
75-27-4	Dagmodiahlasamakhasa	25.	ND	Ū
10061-01-5	Cis-1,3-dichloropropene	25.	ND	Ŭ
108-10-1	4-Methyl-2-pentanone	50.	ND	Ŭ .
108-88-3	Toluene	75	ND	บั
10061-02-6	Trans-1.3-dichloropropene	25.	ND	บ็
79-00-5	1,1,2-Trichloroethane	25.	ND	Ū
127-18-4	Tetrachloroethene	25.	ND	Ŭ
591-78-6	2-Hevanone	-	ND	Ü
124-48-1	Dibromochloromethane	25.	ND	ΰ
108-90-7	Chlorobenzene	25.	ND	Ŭ
100-41-4	l Ethylhenzene	25.	ND	บ็
1330-20-7	Xylene (Total)	25.	ND	Ŭ
100-42-5	Styrene	25.	ND	ϋ
75-25-2	Bromoform	25.	ND	Ŭ
79-34-5	1,1,2,2-Tetrachloroethane		ND	Ü.
541-73-1	1,3-Dichlorobenzene	25.	ND	Ŭ
106-46-7	1,4-Dichlorobenzene	25.	ND	Ŭ
95-50-1	1,2-Dichlorobenzene	25.	ND	tī .

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8240 ANAMETRIX, INC. (408)432-8192

Project ID Sample ID : VBLKND : SOIL : 0/ 0/ 0 :11/19/94 : MSD1 Matrix Date Sampled Date Analyzed Instrument ID

: BN1903A2 Anametrix ID : A Analyst Supervisor

Dilution Factor: 5
Conc. Units: ug/Kg 50.0

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
		500.	ND	U.
74-87-3	Chloromethane	500.	ND	U
75-01-4	Vinyl chloride	500.	ND	U
74-83-9	Bromomethane	500.	ND	U
75-00-3	Chloroethane	250.	ND	Ū
75-69-4	Trichlorofluoromethane	250.	ND	Ū
75-35-4	1,1-Dichloroethene	250.	ND	Ū
76-13-1	Trichlorotrifluoroethane	1000.	ND	Ū
67-64-1	Acetone	250.	ND	Ŭ
75-15-0	Carbon disulfide	250.	ND	Ŭ
75-09-2	Methylene chloride	1	ND	lŭ
156-60-5	Trans-1,2-dichloroethene	250.	ND	Ŭ :
75-34-3	1,1-Dichloroethane Cis-1,2-dichloroethene	250.	ND	ŭ .
156-59-2	Cis-1,2-dichloroethene	250.	ND ND	Ü
78-93-3	2-Butanone	1000.		ŭ
67-66-3	Chloroform	250.	ИD	Ü
71-55-6	Chloroform 1,1,1-Trichloroethane Carbon tetrachloride Vinyl acetate	250.	ND	Ü
56-23-5	Carbon tetrachloride	250.	ND	ซ
108-05-4	Vinvl acetate	500.	ND	Ü
	Benzene	250.	ND	1 -
71-43-2	Benzene 1,2-Dichloroethane Trichloroethene 1,2-Dichloropropane Bromodichloromethane	250.	ND	U
107-06-2	Trichloroethene	250.	ND	ū
79-01-6	1 2-Dichloropropane	250.	ND	U
78-87-5	Promodichloromethane	250.	ND	U
75-27-4	Cis-1,3-dichloropropene		ND	U
10061-01-5	4-Methyl-2-pentanone	300.	ND	U
108-10-1	Toluene	250.	ND	ŲŪ
108-88-3	Toldene 3-dichloropropene	250.	ND	U
10061-02-6	Trans-1,3-dichloropropene 1,1,2-Trichloroethane	250.	ND	U
79-00-5	Tetrachloroethene	250.	ND	U
127-18-4		500.	ND	U
591-78-6	2-Hexanone Dibromochloromethane	_1	ND	U
124-48-1	Dipromocnioromechane	250.	ND	ប
108-90-7	Chlorobenzene Ethylbenzene Xylene (Total) Styrene	250.	ND	U
100-41-4	Ethylbenzene	250.	ND	lυ
1330-20-7	Xylene (Total)	- 250.	ND	U
100-42-5	Styrene	- 250.	ND	U
75-25-2	1 Bromoform	2,50.	ND	ĺΰ
79-34-5	1,1,2,2-Tetrachloroethane	_1	ND	Ŭ
541-73-1	1,3-Dichlorobenzene	_	ND	Ŭ
106-46-7	1,4-Dichlorobenzene		ND	Ŭ
95-50-1	1,2-Dichlorobenzene	250.	מא	١

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8240 ANAMETRIX, INC. (408)432-8192

Anametrix ID : BN2103A1

Project ID Sample ID : 51 : VBLKNS Analyst : SOIL : 0/ 0/ 0 :11/21/94 : MSD2 Supervisor Matrix

Date Sampled Date Analyzed 1.0

Dilution Factor : Conc. Units : : ug/Kg Instrument ID

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

SURROGATE RECOVERY SUMMARY -- EPA METHOD 8240 ANAMETRIX, INC. (408)432-8192

Project ID: 35195.62

Matrix : SOLID

Anametrix ID : 9411161

Analyst : 50 Supervisor : W

	SAMPLE ID	SU1	SU2	SU3
1 2	VBLKND VLCSO2	100 102	101 102	104 103
3 4	A4SS	103	103	103
123456789				
8 9 0				
2				
3 4 5				
.6 7				
.8 .9				
1				
23 24 25 26				
26 27 28				
29				

			QC	LIMITS
				= .101\
SU1	=	1,2-Dichloroethane-d4 Toluene-d8		5-121) 3-117)
SUZ	=	1.4-Bromofluorobenzene		

* Values outside of Anametrix QC limits

SURROGATE RECOVERY SUMMARY -- EPA METHOD 8240 ANAMETRIX, INC. (408)432-8192

Project ID : 35195.62 Matrix : SOLID

Anametrix ID: 9411161

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Analyst : 5 Supervisor : M

	SAMPLE ID	SU1	SU2	SU3
1 2 3 4	VBLKNS VLCSO6 B12SS	106 108 109	105 108 108	104 104 103
1 2 3 4 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 (85-121)SU2 = Toluene-d8 (83-117) SU3 = 1,4-Bromofluorobenzene (82-116)

* Values outside of Anametrix QC limits

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

Project/Case

Anametrix ID

: MN1901A2

: SOIL

Analyst

Matrix

Date Sampled

Supervisor

: 5C : *K*

Date Analyzed

: 11/19/94

SDG/Batch

:

Instrument ID

: MSD1

Sample ID

: VLCSO2

COMPOUND	SPIKE	SAMPLE	LCS	LCS	%REC
	ADDED	CONCENTRATION	CONCENTRATION	8	LIMITS
	(ug/Kg)	(ug/Kg)	(ug/Kg)	REC	
1,1-Dichloroethene	50	0	43	86	78-150
Benzene	50	0	49	98	85-120
Trichloroethene	. 50	0	47	94	64-135
Toluene	50	0	48	96	88-119
Chlorobenzene	50	0	47	94	86-116
		<u> </u>	<u> </u>		<u> </u>

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

Project/Case

Anametrix ID

: MN2101A1

Matrix

: SOIL

Analyst

: 51

Date Sampled

Supervisor

: K

Date Analyzed

: 11/21/94

SDG/Batch

Instrument ID

: MSD2

Sample ID

: VLCSO6

	(ug/Kg)	(ug/Kg)	REC	LIMITS
(ug/Kg)			100	78-150
· ·	-			85-120
50	0			1
50	0	47	94	64-135
50	0	50	100	88-119
50	0	47	94	86-116
	50	50 0 50 0 50 0	50 0 53 50 0 47 50 0 50	50 0 53 106 50 0 47 94 50 0 50 100

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

MR. WALTER HOWARD

RUST ENVIRONMENT AND INFRASTRUCTURE

12 METRO PARK ROAD ALBANY, NY 12205

Workorder # : 9411161 Date Received : 11/14/94 Project ID : 35195.624

Purchase Order: N/A
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9411161- 2	B12SS	SOIL	11/14/94	TPHg
9411161- 1	A4SS	SOIL	11/14/94	TPHgBTEX

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

MR. WALTER HOWARD RUST ENVIRONMENT AND INFRASTRUCTURE 12 METRO PARK ROAD

ALBANY, NY 12205

Workorder # : 9411161 Date Received : 11/14/94 Project ID : 35195.624

Purchase Order: N/A
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- All holding times have been met for the analyses reported in this section.

- The surrogate recoveries for the mineral spirits laboratory control sample and laboratory control sample duplicate are outside of quality control limits due to the presence of interfering peaks.
- The concentration reported as gasoline for sample A4SS is primarily

- The concentration reported as gasoline for sample A4SS is primarily due to the presence of a petroleum product of narrow hydrocarbon range C8-C10, possibly mineral spirits.

Chenyl Basemen Department Supervisor

Date

Luca Shor 11/22/94 Chemist

Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS (GASOLINE WITH BTEX) ANAMETRIX, INC. - (408) 432-8192

Anametrix W.O.: 9411161

Matrix : SOIL

Date Sampled : 11/14/94

Project Number: 35195.624
Date Released: 11/21/94

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		V			
	Reporting Limit	Sample I.D.# A4SS	Sample I.D.# B12SS	Sample I.D.# BN1701E1	
COMPOUNDS	(mg/Kg)	-01	-02	BLANK	
Benzene	0.005	ND		ND	
Toluene	0.005	ND	-	ND	
Ethylbenzene	0.005	0.29	-	ND	
Totāl Xylenes	0.005	75.7	_	ND	
TPH as Gasoline	0.5	(80)	_	ND	
Mineral Spirits	0.5	<u>_</u>	3.4	ND	
<pre>% Surrogate Rece Instrument I.I Date Analyzed RLMF</pre>		112% HP21 11/17/94 25	119% HP21 11/17/94 2.5	104% HP21 11/17/94	.

ND - Not detected at or above the practical quantitation limit for the method.

TPHg - Total Petroleum Hydrocarbons as mineral spirits and gasoline is determined by GCFID using modified EPA Method 8015 following sample purge and trap by EPA Method 5030.

BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA Method 8020 following sample purge and trap by EPA Method 5030.

RLMF - Reporting Limit Multiplication Factor.

Anametrix control limits for surrogate p-Bromofluorobenzene recovery are 53-147%.

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

Analyst Shor "/22/97 Date

Chengl Balma 11/22/44
Supervisor Date

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

Sample I.D. : LAB CONTROL SAMPLE

Anametrix I.D.: MN1701E1
Analyst : 15

Matrix : SOIL Date Sampled : N/A

Date Analyzed: 11/17/94

Supervisor : 5 Date Released : 11/21/94 Instrument I.D.: HP21

ğ.

COMPOUND	SPIKE AMT (mg/Kg)	LCS REC (mg/Kg)	% REC LCS	LCSD REC (mg/Kg)	% REC LCSD	RPD	% REC LIMITS
MINERAL SPIRITS	0.5	0.46	92%	0.45	90%	-2%	58-130
SURROGATE			159%		157%		61-139

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

MR. WALTER HOWARD

RUST ENVIRONMENT AND INFRASTRUCTURE

12 METRO PARK ROAD ALBANY, NY 12205

Workorder # : 9411161 Date Received: 11/14/94

Project ID : 35195.624
Purchase Order: N/A
Department : PREP
Sub-Department: PREP

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9411161- 1	A4SS	SOIL	11/14/94	5520EF

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

MR. WALTER HOWARD RUST ENVIRONMENT AND INFRASTRUCTURE

12 METRO PARK ROAD ALBANY, NY 12205 Workorder # : 9411161 Date Received : 11/14/94 Project ID : 35195.624

Purchase Order: N/A Department : PREP Sub-Department: PREP

QA/QC SUMMARY :

- All holding times have been met for the analyses reported in this section.

Oct 11/15/94
Department Supervisor Date

743. ()-tt 11/15/94 Chemist

Date

ANALYSIS DATA SHEET - TOTAL RECOVERABLE PETROLEUM HYDROCARBONS INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES (408) 432-8192

PROJECT #

: 35195.624

ANAMETRIX I.D. : 9411161

MATRIX

: SOIL

ANALYST

· BL)

DATE SAMPLED

: 11/14/94

SUPERVISOR

: Ch

DATE EXTRACTED

: 11/14/94

DATE RELEASED: 11/15/94

DATE ANALYZED

: 11/15/94

WORKORDER#	SAMPLE I.D.	REPORTING LIMIT (mg/Kg)	AMOUNT FOUND (mg/Kg)	
9411161-01	A4SS	30	100	
BN14H1W9	METHOD BLANK	30	ND	

ND - Not detected above the reporting limit for the method.

TRPH - Total Recoverable Petroleum Hydrocarbons are determined by Standard Method 5520EF, 18th edition.

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

MATRIX SPIKE REPORT - TOTAL RECOVERABLE PETROLEUM HYDROCARBONS INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES (408) 432-8192

SAMPLE I.D.

: A4SSMS, MD

ANAMETRIX I.D.

: 9411161-01

MATRIX

: SOIL

ANALYST

: 40

DATE SAMPLED

: 11/14/94

SUPERVISOR

: Oh-

DATE EXTRACTED : 11/14/94

DATE RELEASED : 11/16/94

DATE ANALYZED : 11/15/94

COMPOUND	SPIKE AMT (mg/Kg)	SAMPLE CONC. (mg/Kg)	MS AMT	%REC MS	MD AMT	%REC MD	%RPD	% REC LIMITS
MOTOR OIL	300	100	430	110	380	93	12	48-114

^{*} Quality control limits established by Anametrix Laboratories.

TRPH - Total Recoverable Petroleum Hydrocarbons are determined by Standard Method 5520EF, 18th edition.

LAB CONTROL SAMPLE REPORT - TOTAL RECOVERABLE PETROLEUM HYDROCARBONS INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES (408) 432-8192

SAMPLE ID

: LAB CONTROL SAMPLE

ANAMETRIX I.D.

: MN14H1W9

MATRIX

: SOIL

ANALYST

: BU

DATE EXTRACTED : 11/14/94

SUPERVISOR

: cm

DATE ANALYZED : 11/15/94

DATE RELEASED : 11/15/94

COMPOUND	SPIKE AMT. (mg/Kg)	LCS (mg/Kg)	%REC LCS	REC LIMITS
MOTOR OIL	300	300	100	44-128

^{*} Quality control limits established by Anametrix Laboratories.

TRPH - Total Recoverable Petroleum Hydrocarbons are determined by Standard Method 5520EF, 18th edition.

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, except for Method 6010A, which is 80-120% with 25% 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 75-125%.

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.

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

MR. WALTER HOWARD

RUST ENVIRONMENT AND INFRASTRUCTURE

12 METRO PARK ROAD ALBANY, NY 12205

Workorder # : 9411161 Date Received : 11/14/94 Project ID : 35195.624 Purchase Order: N/A

Department : METALS Sub-Department: METALS

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9411161- 1	A4SS	SOIL	11/14/94	6010
9411161- 1	A4SS	SOIL	11/14/94	ORG Pb

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

MR. WALTER HOWARD RUST ENVIRONMENT AND INFRASTRUCTURE 12 METRO PARK ROAD ALBANY, NY 12205 Workorder # : 9411161 Date Received : 11/14/94 Project ID : 35195.624 Purchase Order: N/A

Department : METALS
Sub-Department: METALS

QA/QC SUMMARY :

- All holding times have been met for the analyses reported in this section.

- The matrix spike recoveries for sample A4SS for chromium, nickel and zinc were outside of Anametrix control limits, possibly due to the heterogenous nature of the sample. A post digestion spike was performed and results were within Anametrix control limits, indicating no spectral interferences.

The relative percent difference for sample A4SS and its duplicate for chromium, lead and zinc were outside of Anametrix control limits,

possibly due to the heterogenous nature of the sample.

Muld A. (4) 6 1/23/24
Department Supervisor Date

Suph Carroll 11/23/54
Chemist Date

INORGANICS - PAGE 2

INCHCAPE TESTING SERVICES ANAMETRIX LABORATORIES (408) 432-8192 DATA REPORT

Anametrix Sample ID: 9411161-01

Client Sample ID: A4SS

Client Project Number: 35195.624

Matrix: SOIL

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Date Sampled: 11/14/94

Analyst:50

Supervisor: 14

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Analyte	Prep. Method	Analytical Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Reporting Limit	Results	Q
Cadmium	3050A	6010A	ICP1	11/14/94	11/15/94	1	mg/Kg	0.50	ND	
Chromium	3050A	6010A	ICP1	11/14/94	11/15/94	1	mg/Kg	1.0	55.2	· ·
Lead	3050A	6010A	ICP2	11/14/94	11/15/94	1	mg/Kg	4.0	10.9	
Nickel	3050A	6010A	ICP1	11/14/94	11/15/94	1	mg/Kg	4.0	143	/
Zinc	3050A	6010A	ICP1	11/14/94	11/15/94	1	mg/Kg	2.0	41.8	~
Organic Lead	*	*	AA1	11/14/94	11/15/94	1	mg/Kg	0.75	ND	/

COMMENTS: * Organic lead Test Method, Appendix XI, Title 22 Code of Regulations, Register 91, No. 22, page 689.

INCHCAPE TESTING SERVICES ANAMETRIX LABORATORIES (408) 432-8192 METHOD BLANK REPORT

Anametrix Sample ID: BN144SB, BN144SA

Analyst: 50 Supervisor: w**

Anametrix WO #: 9411161

Client Project Number: 35195.624

Matrix: SOIL

Analyte	Prep. Method	Analytical Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Reporting Limit	Results	Q
Cadmium	3050A	6010A	ICP1	11/14/94	11/15/94	1	mg/Kg	0.50	ND	
Chromium	3050A	6010A	ICP1	11/14/94	11/15/94	1	mg/Kg	1.0	ND	
Lead	3050A	6010A	ICP2	11/14/94	11/15/94	1	mg/Kg	4.0	ND	
Nickel	3050A	6010A	ICP1	11/14/94	11/15/94	1	mg/Kg	4.0	ND	
Zinc	3050A	6010A	ICP1	11/14/94	11/15/94	1	mg/Kg	2.0	ND	
Organic Lead	*	*	AA1	11/14/94	11/15/94	1	mg/Kg	0.75	ND	

* Organic lead Test Method, Appendix XI, Title 22 Code of Regulations, Register 91, No. 22, page 689. COMMENTS:

INCHCAPE TESTING SERVICES ANAMETRIX LABORATORIES (408) 432-8192 SAMPLE DUPLICATE REPORT

Anametrix Sample ID: 9411161-01D

Client Sample ID: A4SS

Client Project Number: 35195.624

Matrix: SOIL

Analyst: 52

Supervisor: w

Analyte	Prep. Method	Analyt. Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Sample Conc.	Sample Duplicate Conc.	RPD	Q
Cadmium	3050A	6010A	ICP1	11/14/94	11/15/94	1	mg/Kg	ND	ND	N/A	
Chromium	3050A	6010A	ICP1	11/14/94	11/15/94	1	mg/Kg	55.2	90.8	48.8	
Lead	3050A	6010A	ICP2	11/14/94	11/15/94	1	mg/Kg	10.9	6.6	49.1	
Nickel	3050A	6010A	ICP1	11/14/94	11/15/94	1	mg/Kg	143	149	4.1	
Zinc	3050A	6010A	ICP1	11/14/94	11/15/94	1	mg/Kg	41.8	33.9	20.9	

INCHCAPE TESTING SERVICES ANAMETRIX LABORATORIES (408) 432-8192 MATRIX SPIKE REPORT

Anametrix. Sample ID: 9411161-01MS,MD

Client Sample ID: A4SS

Client Proj. Number: 35195.624

Matrix: SOIL

Analyst: 50 Supervisor: 2004

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Analyte	Analyt. Method	Instr.	Date Prepared	Date Analyzed	Units	Spike Amount	Sample Conc.	Matrix Spike Conc.	% Rec.	Matrix Sp. Dup. Conc.	% Rec.	RPD	Q
Cadmium	6010A	ICP1	11/14/94	11/15/94	mg/Kg	5.0	0.0	4.0	80.0	4.2	84.0	4.9	U
Chromium	6010A	ICP1	11/14/94	11/15/94	mg/Kg	20.0	55.2	101	229	98.1	215	2.9	
Lead	6010A	ICP2	11/14/94	11/15/94	mg/Kg	50.0	10.9	48.7	75.6	50.3	78.8	3.2	
Nickel	6010A	ICP1	11/14/94	11/15/94	mg/Kg	50.0	143	218	150	233	180	6.7	
Zinc	6010A	ICP1	11/14/94	11/15/94	mg/Kg	50.0	41.8	80.4	77.2	84.7	85.8	5.2	
Organic Lead	*	AA1	11/14/94	11/15/94	mg/Kg	11.0	0.0	11.0	100	10.6	96.4	3.7	U

COMMENTS: * Organic lead Test Method, Appendix XI, Title 22 Code of Regulations, Register 91, No. 22, page 689.

INCHCAPE TESTING SERVICES ANAMETRIX LABORATORIES (408) 432-8192

POST DIGESTION SPIKE REPORT

Anametrix Sample ID: 9411161PDS

Client Sample ID: A4SS

Client Project Number: 35195.624

Matrix: SOIL

Analyst: ≤ ⊆ Supervisor:

Analyte	Analyt. Method	Instr. ID	Date Prepared	Date Analyzed	D.F.	Units	Spike Amount	Sample Conc.	PDS Conc.	% Rec.	Q
Chromium	6010A	ICP1	11/15/94	11/15/94	1	mg/Kg	110	55.1	150	86.3	
Nickel	6010A	ICP1	11/15/94	11/15/94	1	mg/Kg	300	143	394	83.7	
Zinc	6010A	ICP1	11/15/94	11/15/94	1	mg/Kg	80.0	41.8	105	79.0	

INCHCAPE TESTING SERVICES ANAMETRIX LABORATORIES (408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

Lab. Control Sample ID: LN144SB, LN144SA

Anametrix WO #: 9411161

Client Project Number: 35195.624

Matrix: SOIL

Analyst: 5 C

Supervisor:

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Analyte	Prep. Method	Analytical Method	instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Spike Amount	LCS Results	% Recovery	Q
Cadmium	3050A	6010A	ICP1	11/14/94	11/15/94	1	mg/Kg	5.0	4.1	82.0	
Chromium	3050A	6010A	ICP1	11/14/94	11/15/94	1	mg/Kg	20.0	16.4	82.0	
Lead	3050A	6010A	ICP2	11/14/94	11/15/94	1	mg/Kg	50.0	45.4	90.8	
Nickel	3050A	6010A	ICP1	11/14/94	11/15/94	1	mg/Kg	50.0	41.9	83.8	
Zinc	3050A	6010A	ICP1	11/14/94	11/15/94	1	mg/Kg	50.0	40.0	80.0	
Organic Lead	*	*	AA1	11/14/94	11/15/94	1	mg/Kg	11.0	11.2	102	

COMMENTS: * Organic lead Test Method, Appendix XI, Title 22 Code of Regulations, Register 91, No. 22, page 689.

SAMPLE RECEIVING CHECKLIST

WORKORDER NUMBER: 94/1/6/	CLIENT PROJECT ID:	35195.624		
COOLER		•	·	
Shipping slip (airbill, etc.) present?	, in the second	YES	NO (N/A
If YES, enter carrier name and airbill #:				
Custody Seal on the outside of cooler?		YES	NO	N/A
Condition: INTACT BROKEN				
Temperature of sample (s) within range?		YES	NO	N/A
List temperature of cooler (s): 5°C				
	-			
SAMPLES				<u> </u>
Chain of custody seal present for each container?		YES	NO (N/A
Condition: INTACT BROKEN				
Samples arrived within holding time?		(YES)	NO	N/A
Samples in proper containers for methods requested?		YES	NO	100
Condition of Contamers.	KEN	*		
If NO, were samples transferred to proper container?				
Were VOA containers received with zero headspace?		YES	NO	N/A
If NO, was it noted on the chain of custody?				
Were container labels complete? (ID, date, time preservat	ive, etc.)	(YES)	NO	
Were samples preserved with the proper preservative?		YES	NO	N/A
If NO, was the proper preservative added at time of rece	eipt?			
pH check of samples required at time of receipt?		YES	(NO)	ļ
If YES, pH checked and recorded by:				
Sufficient amount of sample received for methods request	ed?	YES	NO	
If NO, has the client or lab project manager been notified	d?			
Field blanks received with sample batch? # of Sets:		YES	МО	N/A
Trip blanks received with sample batch? # of Sets:		YES	NO	(N/A)
CHAIN OF CUSTODY				
Chain of custody received with samples?		(YES)	NO	
Has it been filled out completely and in ink?		YES	NO	
Sample ID's on chain of custody agree with container lab	els?	YES	NO	
Number of containers indicated on chain of custody agree	e with number received?	YES	NO	
Analysis methods clearly specified?		YES	NO	
Sampling date and time indicated?		YES) NO	
Proper signatures of sampler, courier, sample custodian i	n appropriate place? with tin	ne and date? YES	NO	
Turneround time? REGULAR RUSH				<u></u>
Any NO response and/or any "BROKEN" that was	checked must be detailed in	the Corrective Action	n For	m.
•				
Sample Custodian: Date: 11/14/94	Project Manager:	Date:	11/15	194

BENCHSHEET - TOTAL RECOVERABLE PETROLEUM HYDROCARBONS INCHCAPE TESTING SERVICES - ANAMETRIX LABORATORIES (408) 432-8192

Date Extracted: 11/14/94
Date Analyzed: 11/15/94

Analyst: JK/BJ Batch No HSN14W91

Workorder #	Sample I.D. #	Amount Extracted (grams)	Final Weight (grams)	Initial Weight (grams)	Weight of Residue (grams)	Total Oil & Grease (ppm)
9411161-01	A4SS	30	10.8736	10.8706	0.0030	100
BN14H1W9	METHOD BLANK	30	10.7712	10.7708	0.0004	ND
MN14H1W9	LCS	30	10.9898	10.9807	0.0091	300
9411161-01	A4SSMS	30	10.9350	10.9222	0.0128	430
9411161-01	A4SSMD	30	10.8544	10.8431	0.0113	380

amount recovered

amount recovered - amount in original sample

% REC OF MS = ----* 100 110

amount spiked

amount recovered - amount in original sample

% REC OF MD = _____* 100 93

amount spiked

RPD OF MS & MD = 12

APPROVED BY: 31) 11/15/95

HSY14W91 METHOD 5520EF Modified(Cil and Grease as Hydrocarbons in Soil) BATCH: 11/14/94 **DATE STARTED:** Inchcape Testing Services, Anametrix (408)432-8192 conc. to ~2ml (circle 1) 3.0g silica gel clean-up conc. to dryness w/N2 RE-EXTRACT? .D match with chain filter w/#50 filter paper n K-D or Erlenmeyer 100 ml 1:1 Acetone Ch2CI2 lot #11212 1.0ml motor oil spk sonicate 3 x 3 min. lot # (-3 53+0 add 60g Na2SO4 pre-weighed tubes ransfer extract to ot#17071410 30g soil +/- 0.1g 9.0 mg/ml # ANAMETRIX I.D.: **CLIENT I.D.:** notes/comments 9411161-0 A 455 Z AV 11 2) 94445BIA 9411061-01 AŁ 702 10 55 4 445 1455 -msD-01 AK $\Delta \kappa$ AL BN14HIW9 RLANK 30 Δĸ MN/4HIW9 30 NK Yellow o'l AL AIL AL AL DATE: 11/4 11/14 Date/Time Completed: APPROVAL:

11/14/94

1243/24 Wister

METHOD 5520EF Modified(Oil and Grease as Hydrocarbons in Soil)

<u>M</u>	Inches	cape Testing Se	rvices, Anametri	x (408) 432-8192	-	
DATE EXTRACTED:					1PWP(UZH	
DATE ANALYZED:	11/15/94			ANALYST:	AK/82]
		Weight	Final Weight: (g)	Initial Weight: (g)	Weight of Residue (g)	Oil & Grease (mg/Kg)
ANAMETRIX I.D.:	CLIENT I.D.:	Extracted (g):	10.7712	10.7708	0.0004	<30
BUILHIMA	BLANK	300		10.9807	0.0091	300
MULHIMA	205	 	10.6898	10.8706	0.0030	100
9411161-01	AUSS		10.8736		0.0045	150
9411065-01	9444881A		10.9085	10,9640	,	47
-02	V SBIB		10.8703	10.8689	0.00014	430
-03	↓ 5×5		10.8937	10.8937		430
9411161-01ms	DUSS		10.9350		0.0128	320
- Olmsid	AYST	\ \	10.8544	10,8431	00113	1 340
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			<u> </u>			
					 	
					 	
	 					
						
		 				
						
						
			 		-	
CALCULATION	<u>IS:</u>		<u>LC</u>	s: 100		
O&Gmg/Kg = wt. of resid						
.03Kg	g x 1g		N	IS: 110		
 	nonveredimelika) v 400	n	MS		R	PD: 12 %
% Rec. LCS = amount re	omg/Kg	-	4000011	\		
	t soon weed malks)	amount in sample/mo	APPROV∕ /Ka) x 100		W.H 1	115/2.1
% Rec. MS/MSD = amo	unt recovered(mg/kg) -	omg/Kg		LK1+3	W.th	1,2/-14



Inchcape Testing Services Anametrix Laboratories

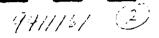
1961 Concourse Drive Suite E San Jose, CA 95151 Tel: 408-452-8192 Fax: 408-432-8198

CORRECTIVE ACTION FORM ORGANIC PREP LAB

METH	OD:5520EF	BATCH: USNI HUSI WORKO	RDERS: 9411161	
	IX: SOIL	ANALYST: AL	9411061	. · · · · · · · · · · · · · · · · · · ·
	11/14/94	SDG:		
		holding time was missed.		
	Samples affe	cted:		
	Corrective Act		te.a.	
		ervices or Project Manager not		
		s extracted out of hold time by	aays.	
		s resampling.		į.
	Other:			
				VERIFICATION:
				VERIFICATION.
		sample was received for the a	inalysis.	
	Samples affe	cted:		
	Corrective Act			
		s extracted as is, volumes are n		
	Client s	ervices or Project Manager not	tified:	
	Other:			
				VERIFICATION:
	Insufficient	sample was received for a M	S/MSD or MS/DUP.	
	Samples affe			
	-			
	Corrective Act	tion		
	Extract	ed a LCS and LCSD.		
	Other:			
	 			VERIFICATION:

Samples affected:	
Corrective Action	
Client services or Project Manager notified:	
Other:	
The order of months of the control o	VERIFICATION
The extract would not concentrate to the standard final volume. Extracts affected:	
EXUACIS Affected:	
Corrective Action	
The adjusted final volumes are noted on the extraction sheet.	
Other:	
	VERIFICATION
Other, explain:	
	
Corrective Action:	
Corrective Action:	· · · · · · · · · · · · · · · · · · ·
V	
	VERIFICATION

48 hr T.A.T.



Chain of Custody Record

	WAHLER LABL				(£ £															<u> </u>					
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Ртојес	t Number Project Name,							रेचे।	Ň		Ť		Ť	1044.	Ť	T	Æ	1		C.	mple	Tune	. ,	ampl	e Co	ntainer
3519	95.624 America	~ Nat	onal	Ca	'n			emole.	¥	ŀ]	Ù	١	1			संगर			34	Imple	T				
Sampl	ers: (Signature)					 	! 	37.3	4-	. \$	` <u>.</u> },	، آڏِب	ا ر	ر ایدر	P	۵.	ર્ચ	lj.	1 1			1 1	21/20	,3 ,4		
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1	12205 Lab:									F311				<u> </u>	L Ca		Cliant								r~.	st 1/Coab 9

ENVIRONMENT & INFRASTRUCTURE

Project Number

Item

No.

Samplers: (Signature)

A4 55 R12.55

Pulsard Bur -

Sample Description

(Field ID Number)

WAHLER LARLES

Project Name/Client

Glay (20) 1/10/14 By 94/1/6/ 2 12:15 2.

Chain of Custody Record Custody Seal # RUST E&I Cooler # Matrix Analysis Required Sample Container 35195.624 American National Can Sample Type Lab Sample Container
Number Number Time 11-14-91 9:10 11-14-94 9:20 Date/Time Date/Time ||||4||94|| ||1:37 Disposed of by: (Signature) Items: Received by: (Signature) Received by: (Signature)
[Laboratory Dephine DeCall Disposed of by: (Signature) Items: Date/Time Date/Time Remarks: fax copy of lyesults to Richard Laboratory Receiving Notes: Check Delivery Method: Burginski - Rust Pols acts 415/968-5365 P-Samples delivered in person Custody Seal Intact? Common carrier

Send Lab Results To: WALTER HOW ALD RUST EXI 12 Metro Park Road Albany, NY. 12205

Relinquished by: (Signature)

Relinquished by: (Signature)

Federal Express Airbill No.:

☐ Mail

Temp. of Shipping Container: 5% Sample Condition:

Lab:

APPENDIX C

Laboratory Analytical Report-Area 4 Excavation Water Sample

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

MR. WALTER HOWARD RUST ENVIRONMENT AND INFRASTRUCTURE 12 METRO PARK ROAD ALBANY, NY 12205

Workorder # : 9411124 Date Received : 11/10/94 Project ID : 35195.624

Purchase Order: N/A

The following samples were received at Anametrix for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9411124- 1	A4A-PW

This report is organized in sections according to the specific Anametrix laboratory group which performed the analysis(es) and generated the data.

The results contained within this report relate to only the sample(s) tested. Additionally, these data should be considered in their entirety and Anametrix cannot be responsible for the detachment, separation, or otherwise partial use of this report.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234.

If you have any further questions or comments on this report, please call your project manager as soon as possible. Thank you for using Incape Testing Services.

This report consists of

ANAMETRIX REPORT DESCRIPTION GCMS

Organic Analysis Data Sheets (OADS)

DADS forms contain tabulated results for target compounds. The DADS 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 SC/MS analyses. TICs must be requested at the time samples are submitted at Anametrix. TIC forms immediately follow the DADS 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, <u>if</u> 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 "e", and the total number outside the limits will be listed at the bottom of the page. Not all reports will contain an MSR form.

Oualifiers

Anametriz 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:

- g 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.
- g Indicates that the amount reported exceeded the linear range of the instrument calibration.
- B 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

- Bue to a size limitation in our data processing step, only the first eight (6) characters of your project 10 and sample 10 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 10s.
- Amounts reported are gross values, i.e., not corrected for method blank contamination.

FL/1574

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

MR. WALTER HOWARD RUST ENVIRONMENT AND INFRASTRUCTURE 12 METRO PARK ROAD Workorder # : 9411124
Date Received : 11/10/94
Project ID : 35195.624
Purchase Order: N/A

Purchase Order: N/A
Department : GCMS
Sub-Department: GCMS

SAMPLE INFORMATION:

ALBANY, NY 12205

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9411124- 1	A4A-PW	WATER	11/10/94	8240

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

MR. WALTER HOWARD RUST ENVIRONMENT AND INFRASTRUCTURE

12 METRO PARK ROAD ALBANY, NY 12205

Workorder # : 9411124 Date Received: 11/10/94 Project ID : 35195.624

Purchase Order: N/A Department : GCMS Sub-Department: GCMS

QA/QC SUMMARY :

- No QA/QC problems for EPA Method 8240.

Department Supervisor

Memarzudeh

Date

GCMS/GCMS- PAGE 2

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8240 ANAMETRIX, INC. (408)432-8192

Project ID : 35195.62
Sample ID : A4A-PW
Matrix : WATER
Date Sampled :11/10/94
Date Analyzed :11/10/94
Instrument ID : MSD1

Anametrix ID : 9411124-01
Analyst : The
Supervisor : p

Dilution Factor: 2.0 Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3 75-01-4	Chloromethane Vinyl chloride	20.	ND ND	U U
74-83-9	Bromomethane	20.	ND	U
75-00-3	chloroethane	20.	ND	U
75-69-4	Trichlorofluoromethane	10.	ND	U
	1,1-Dichloroethene	10.	ND	U
75-35-4	Trichlorotrifluoroethane	10.	ND	U U
76-13-1	Acetone	40.	ND) U
67-64-1	Carbon disulfide	10.	ND	U
75-15-0	Methylene chloride	10.	ND	U
75-09-2	Trans-1,2-dichloroethene		ND	บ
156-60-5	1,1-Dichloroethane	• •	ND	Įΰ
75-34-3	1,1-Dichloroethane Cis-1,2-dichloroethene	10.	ND	יָּ עֹן יְ
156-59-2	C1S-1, 2-d1Ch1of Oethere	40.	ND	U
78-93-3	2-Butanone	1 10	ND	U
67-66-3	Chloroform 1,1,1-Trichloroethane	10.	ND	ប
71-55-6	1,1,1-Trichioroethane	10.	ND	ĺΰ
56-23-5	Carbon tetrachloride	20	ND	Ū
108-05-4	Vinyl acetate		ND	Ū
71-43-2	Benzene 1,2-Dichloroethane	10.	ND	Ū
107-06-2	1,2-Dichloroethane	10.	ND	Ū
79-01-6	Trichloroethene	1	ND	Ŭ
78-87-5	1,2-Dichloropropane	1	ND	Ŭ
75-27-4	Bromodichloromethane		ND	Ιŭ
10061-01-5	Cis-1,3-dichloropropene	20.	ND	Ü
108-10-1	4-Methyl-2-pentanone	10.	ND ND	บั
108-88-3	Toluene	10.		บ
10061-02-6	Trans-1,3-dichloropropene	10.	ND	บ็
79-00-5	Trans-1,3-dichloropropene	10.	ND	Ü
127-18-4	Tetrachloroethene	1 10.	ND	
591-78-6	2-Hexanone	1 20.	ND	U
124-48-1	ni bromoch loromethane	10.	ND	U
108-90-7	Chlorobenzene Ethylbenzene Xylene (Total)	10.	ND	U
100-41-4	Ethylbenzene	10.	ND	, U
1330-20-7	Yylene (Total)	10.	(310.	\
	Styrene	10.	MQ	/ U
100-42-5	Bromoform	10.	ND	U
75-25-2	1,1,2,2-Tetrachloroethane	10.	ND	U
79-34-5	1,3-Dichlorobenzene	10.	ND	ט
541-73-1	1,4-Dichlorobenzene	10.	ND	U
106-46-7	1,2-Dichlorobenzene	- I	ND	U
95-50-1	T'S-DICHTOLONGHSerie	-1	1	1

ORGANIC ANALYSIS DATA SHEET -- EPA METHOD 8240 ANAMETRIX, INC. (408)432-8192

Project ID Sample ID : BN1002A2 Anametrix ID

: VBLKKP Analyst Matrix : WATER Supervisor Date Sampled

: 0/ 0/ 0 :11/10/94 Date Analyzed Dilution Factor: 1.0

Instrument ID : MSD1 Conc. Units : ug/L

CAS No. COMPOUND NAME REPORTING LIMIT DETECTED Q			-	<u> </u>	
75-01-4	CAS No.	COMPOUND NAME			Q
75-01-4	74-87-3	Chloromethane	10	ND	II
74-83-9				_	
75-00-3	1	Bromomethane		1	
75-69-4	75-00-3	Chloroethane			
75-35-4	75-69-4			F .	
76-13-1	75-35-4				
67-64-1	76-13-1	Trichlorotrifluoroethane		1	
75-15-0	67-64-1				
75-09-2	75-15-0	Carbon disulfide			
156-60-5	75-09-2				
75-34-3					
156-59-2					
78-93-3		Cis-1,2-dichloroethene			, ,
67-66-3					-
71-55-6					
S6-23-5					
108-05-4					
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 108-88-3 Toluene 10. 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 108-90-7 Chlorobenzene 5. ND U 100-41-4 Ethylbenzene 5. ND U 1330-20-7 Xylene (Total) 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 <					_
107-06-2					
79-01-6		1.2-Dichloroethane			
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 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 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	f I	Trichloroethene			
75-27-4	1	1.2-Dichloropropage			_
10061-01-5		Bromodichloromethane			1 -
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 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		Cis-1.3-dichloropropene			
108-88-3		4-Methyl-2-nentanone			
10061-02-6	1				
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 (TotaI) 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		Trans-1 3-dichloropropopo			-
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		1 1 2-Trichloroethane			
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 100-46-7 1,4-Dichlorobenzene 5. ND U		Tetrachloroethene			
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100-41-4 Ethylbenzene 5. ND U 1330-20-7 Xylene (TotaI) 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					
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79-34-5					
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106-46-7 1,4-Dichlorobenzene 5 ND II		1,1,2,2-recraching			
		1,3-Dichlorchergere			
22-20-1 1'7-Dicurorobeuseue 7. ND Ω		1,4-Dichlonehanene			
	30-00-1	1,2-Dichioropenzene	5.	ND	U

SURROGATE RECOVERY SUMMARY -- EPA METHOD 8240 ANAMETRIX, INC. (408)432-8192

Project ID : 35195.62 Matrix : LIQUID Anametrix ID : 9411124 Analyst : 7 M Supervisor : M

	SAMPLE ID	SU1	SU2	SU3
1 2 3	VBLKKP VLCSOF A4A-PW	95 100 101	100 102 100	98 104 101
4 5 6 7				
1 2 3 4 5 6 7 8 9 10 11				
13				
14 15 16 17 18				
19 20 21 22 23 24 25 26 27				
23 24 25 26				
27 28 29 30				
50	l	l	I	l

		QC LIMITS
	1,2-Dichloroethane-d4 Toluene-d8	(75 - 113) (83 - 110)
	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

: MN1002A2.D

Matrix

: WATER

Analyst

:TM

Date Sampled

Supervisor

Date Analyzed

: 10 Nov 94 3:56 pm

SDG/Batch

: W :

Instrument ID

: MSD1

Sample ID

: VLCSOF @ 50ug/

COMPOUND	SPIKE	SAMPLE	LCS	LCS	%REC
	ADDED	CONCENTRATION	CONCENTRATION	%	LIMITS
	(ug/L)	(ug/L)	(ug/L)	REC	}
1,1-Dichloroethene	50	0	53	105	72-145
Benzene	50	0	56	113	83-125
Trichloroethene	50	0	55	110	61-140
Toluene	50	0	55	110	82-123
Chlorobenzene	50	0	55	111	82-125

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, except for Method 6010A, which is 80-120% with 25% 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 75-125%.

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.

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

MR. WALTER HOWARD

RUST ENVIRONMENT AND INFRASTRUCTURE

12 METRO PARK ROAD

ALBANY, NY 12205

Workorder # : 9411124 Date Received: 11/10/94
Project ID: 35195.624
Purchase Order: N/A

Department : METALS Sub-Department: METALS

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9411124- 1	A4A-PW	WATER	11/10/94	Т 22-МЕТ

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

MR. WALTER HOWARD RUST ENVIRONMENT AND INFRASTRUCTURE

12 METRO PARK ROAD ALBANY, NY 12205

Workorder # : 9411124
Date Received : 11/10/94
Project ID : 35195.624
Purchase Order: N/A

Department : METALS Sub-Department: METALS

QA/QC SUMMARY :

- All holding times have been met for the analyses reported in this section.

INORGANICS - PAGE

INCHCAPE TESTING SERVICES ANAMETRIX LABORATORIES (408) 432-8192 DATA REPORT

Anametrix Sample ID: 9411124-01 Client Sample ID: A4A-PW Client Project Number: 35195.624

Matrix: WATER

Date Sampled: 11/10/94

Analyst: C Supervisor: MN

Analyte	Prep. Method	Analytical Method	instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Reporting Limit	Results	Q
Antimony	3010A	6010A	ICP1	11/10/94	11/11/94	1	ug/L	60.0	ND	╆
Arsenic	3010A	6010A	ICP2	11/10/94	11/10/94	1	ug/L	10.0		<u> </u>
Barium	3010A	6010A	ICP1	11/10/94	11/11/94		ug/L		ND ND	├
Beryllium	3010A	6010A	ICP1	11/10/94	11/11/94	- 1		100	ND_	<u> </u>
Cadmium	3010A	6010A	ICP1	11/10/94	11/11/94	4	ug/L	5.0	ND	ļ
Chromium	3010A	6010A	ICP1	11/10/94	11/11/94	1	ug/L	5.0	ND	<u> </u>
Cobalt	3010A	6010A	ICP1	11/10/94	11/11/94	- 1	ug/L	10.0	19.5	
Copper	3010A	6010A	ICP1	11/10/94	11/11/94	1	ug/L	50.0	ND	<u> </u>
Lead	3010A	6010A	ICP2	11/10/94	11/10/94	1	ug/L	25.0	58.3	
Mercury	7470	7470	HGA1	11/10/94	11/11/94		ug/L	3.0	19.6	
Molybdenum	3010A	6010A	ICP1	11/10/94		1	ug/L	0.20	NĎ	
Nickel	3010A	6010A	ICP1		11/11/94	1	ug/L	10.0	ND	
Selenium	3010A	6010A		11/10/94	11/11/94	1	ug/L	40.0	27.6	
Silver	3010A	_ 	ICP2	11/10/94	11/10/94	1	ug/L	5.0	ND	
Thallium		6010A	ICP1	11/10/94	11/11/94	1	ug/L	10.0	ND	
	3010A	6010A	ICP2	11/10/94	11/10/94	_ 1	ug/L	10.0	ND	
Vanadium	3010A	6010A	ICP1	11/10/94	11/11/94	1	ug/L	50.0	ND	
Zinc	3010A	6010A	ICP1	11/10/94	11/11/94	1	ug/L	20.0	104	

INCHCAPE TESTING SERVICES ANAMETRIX LABORATORIES (408) 432-8192 METHOD BLANK REPORT

Anametrix Sample ID: BN104WA, BN104WB, BN104WF

Anametrix WO #: 9411124

Client Project Number: 35195.624

Matrix: WATER

Analyst: 5' Supervisor: WW

Analyte	Prep. Method	Analytical Method	instr.	Date Prepared	Date Analyzed	Dil. Factor	Units	Reporting Limit	Results	Q
Antimony	3010A	6010A	ICP1	11/10/94	11/11/94	1	ug/L	60.0	ND	
Arsenic	3010A	6010A	ICP2	11/10/94	11/10/94	1	ug/L	10.0	ND	
Barium .	3010A	6010A	ICP1	11/10/94	11/11/94	1	ug/L	100	ND	
Beryllium	3010A	6010A	ICP1	11/10/94	11/11/94	1	ug/L	5.0	ND	
Cadmium	3010A	6010A	ICP1	11/10/94	11/11/94	1	ug/L	5.0	NĐ	
Chromium	3010A	6010A	ICP1	11/10/94	11/11/94	1	ug/L	10.0	ND	
Cobalt	3010A	6010A	ICP1	11/10/94	11/11/94	1	ug/L	50.0	ND	
Copper	3010A	6010A	ICP1	11/10/94	11/11/94	1	ug/L	25.0	ND	
Lead	3010A	6010A	ICP2	11/10/94	11/10/94	1	ug/L	3.0	ND	
Mercury	7470	7470	HGA1	11/10/94	11/11/94	1	ug/L	0.20	ND [‡]	
Molybdenum	3010A	6010A	ICP1	11/10/94	11/11/94	1	ug/L	10.0	ND	
Nickel	3010A	6010A	ICP1	11/10/94	11/11/94	1	ug/L	40.0	ND	
Selenium	3010A	6010A	ICP2	11/10/94	11/10/94	1	ug/L	5.0	ND	
Silver	3010A	6010A	ICP1	11/10/94	11/11/94	1	ug/L	10.0	ND	
Thallium	3010A	6010A	ICP2	11/10/94	11/10/94	1	ug/L	10.0	ND	
Vanadium	3010A	6010A	ICP1	11/10/94	11/11/94	1	ug/L	50.0	ND	
Zinc	3010A	6010A	ICP1	11/10/94	11/11/94	1	ug/L	20.0	ND	

INCHCAPE TESTING SERVICES ANAMETRIX LABORATORIES (408) 432-8192 SAMPLE DUPLICATE REPORT

Anametrix Sample ID: 9411124-01D

Client Sample ID: A4A-PW

Client Project Number: 35195.624

Matrix: WATER

Analyst: Sc

Supervisor: W

Analyte	Prep. Method	Analyt. Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Sample Conc.	Sample Duplicate	RPD	Q
Silver	3010A	6010A	ICP1	11/10/94	11/11/94	1	ug/L	ND	Conc. ND	N/A	

INCHCAPE TESTING SERVICES ANAMETRIX LABORATORIES (408) 432-8192 MATRIX SPIKE REPORT

Anametrix. Sample ID: 9411124-01MS,MD

Client Sample ID: A4A-PW Client Proj. Number: 35195.624 Matrix: WATER

Analyst: (C Supervisor: (W)

Analyte	Analyt. Method	Instr. I.D.	Date Prepared	Date Analyzed	Units	Spike Amount	Sample Conc.	Matrix Spike Conc.	% Rec.	Matrix Sp. Dup. Conc.	% Rec.	RPD	Q
Silver	6010A	ICP1	11/10/94	11/11/94	ug/L	50.0	0.0	49.4	98.8				-
GO1 (1							3.0	70.4	30.0	48.7	97.4	1.4	U

INCHCAPE TESTING SERVICES ANAMETRIX LABORATORIES (408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

Lab. Control Sample ID: LN104WA, LN104WB, LN104WF

Anametrix WO #: 9411124 Client Project Number: 35195.624

Matrix: WATER

Analyst: Supervisor: Mic

Analyte	Prep. Method	Analytical Method	instr. Date		Date Analyzed	Dil. Factor	Units	Spike Amount	LCS Results	% Recovery	Q
Antimony	3010A	6010A	ICP1	11/10/94	11/11/94	1	ug/L	500	452	90.4	
Arsenic	3010A	6010A	ICP2	11/10/94	11/10/94	1	ug/L	100	102	102	
Barium	3010A	6010A	ICP1	11/10/94	11/11/94	1	ug/L	2000	2070	104	
Beryllium	3010A	6010A	ICP1	11/10/94	11/11/94	1	ug/L	50.0	50.0	100	
Cadmium	3010A	6010A	ICP1	11/10/94	11/11/94	1	ug/L	50.0	47.3	94.6	
Chromlum	3010A	6010A	ICP1	11/10/94	11/11/94	1	ug/L	200	190	95.0	
	3010A	6010A	ICP1	11/10/94	11/11/94	1	ug/L	500	489	97.8	
Cobalt	3010A	6010A	ICP1	11/10/94	11/11/94	1	ug/L	250	236	94.4	
Copper	3010A	6010A	ICP2	11/10/94	11/10/94	1	ug/L	500	495	99.0	
Lead		7470	HGA1	11/10/94	11/11/94	1	ug/L	1.0	0.96	96.0	
Mercury	7470				11/11/94	1 1	ug/L	2000	2010	101	
Molybdenum	3010A	6010A	ICP1	11/10/94			 	 	+	96.2	+
Nickel	3010A	6010A	ICP1	11/10/94	11/11/94	1	ug/L	500	481	 	
Selenium	3010A	6010A	ICP2	11/10/94	11/10/94	11	ug/L	50.0	46.8	93.6	
Silver	3010A	6010A	ICP1	11/10/94	11/11/94	1	ug/L	50.0	47.4	94.8	<u> </u>
Thallium	3010A	6010A	ICP2	11/10/94	11/10/94	1	ug/L	100	101	101	
Vanadium	3010A	6010A	ICP1	11/10/94	11/11/94	1	ug/L	500	460	92.0	
Zinc	3010A	6010A	ICP1	11/10/94	11/11/94	1	ug/L	500	480	96.0	<u></u>



SAMPLE RECEIVING CHECKLIST

WORKORDER NUMBER: 9411124 CLIEN	NT PROJECT ID:3	5195,672		
COOLER				
Shipping slip (airbill, etc.) present?		YES	NO	NVA
If YES, enter carrier name and airbill #:		1LS	NO	(N/A)
Custody Seal on the outside of cooler?		YES	NO	(N/A)
Condition: INTACT BROKEN		ILG	140	(IVA)
Temperature of sample (s) within range?		YES	NO	N/A
List temperature of cooler (s):) IVIA
SAMPLES	•			
Chain of custody seal present for each container?		YES	NO	NIA
Condition: INTACT BROKEN		*20	140	(IVA)
Samples arrived within holding time?		(YES)	NO	N/A
Samples in proper containers for methods requested?		(YES)	NO	IVA
Condition of containers: INTACT BROKEN			***	
If NO, were samples transferred to proper container?				
Were VOA containers received with zero headspace?		(YES)	NO	N/A
If NO, was it noted on the chain of custody?			110	MA
Were container labels complete? (ID, date, time preservative, etc.)	· · · · · · · · · · · · · · · · · · ·	(YES)	NO	
Were samples preserved with the proper preservative?		(YES)	NO	N/A
If NO, was the proper preservative added at time of receipt?		125	110	14/24
pH check of samples required at time of receipt?		(YES)	NO	
If YES, pH checked and recorded by: PCI				
Sufficient amount of sample received for methods requested?		(YES)	NO	
If NO, has the client or lab project manager been notified?				
Field blanks received with sample batch? # of Sets:		YES	NO	(N/A)
Trip blanks received with sample batch? # of Sets:		YES	NO	(N/A)
CHAIN OF CUSTODY			****	
Chain of custody received with samples?		YES	NO	-
Has it been filled out completely and in ink?		YES	NO	
Sample ID's on chain of custody agree with container labels?		(YEŞ)	NO	
Number of containers indicated on chain of custody agree with numb	er received?		NO	
Analysis methods clearly specified?		YES	NO	
Sampling date and time indicated?	\		NO	
Proper signatures of sampler, courier, sample custodian in appropriat	e place? with time and	date? (YES)	NO	
Turnaround time? REGULAR RUSH				
Any NO response and/or any "BROKEN" that was checked must	st be detailed in the Cor	rective Action	Form	

Sample Custodian: Poly Date: 11/10/94 Project Manager: WR Date: 11/10/94

RUST ENVIRONMENT & INFRASTRUCTURE

24 hour T.A.T.

9411124



Chain of Custody Record

WAHLER LABOR

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	my INY.			Fede Lab:	ral É	xpress	Airbill No	Airbill No.: 24 hvs.						☐ Mail					Temp. of Shipping Container: 10°C Sample Condition: York							
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Rev. 4/93

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APPENDIX D

Laboratory Analytical Report-Fractionation Tank Water Samples

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

MR. WALTER HOWARD RUST ENVIRONMENT AND INFRASTRUCTURE 12 METRO PARK ROAD ALBANY, NY 12205

Workorder # : 9411239 Date Received: 11/22/94 : 35195.624 Project ID

Purchase Order: N/A

The following samples were received at Anametrix for analysis:

ANAMETRIX ID	CLIENT SAMPLE ID
9411239- 1	A4A-BKT1
9411239- 2	A4A-BKT2
9411239- 3	A4A-BKT3
9411239- 4	A4A-BKT4
9411239- 5	A4A-BKT5
9411239- 6	A4A-BKT6
9411239- 7	T. BLANK

This report is organized in sections according to the specific Anametrix laboratory group which performed the analysis(es) and generated the data.

The results contained within this report relate to only the sample(s) tested. Additionally, these data should be considered in their entirety and Anametrix cannot be responsible for the detachment, separation, or otherwise partial use of this report.

Anametrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234.

If you have any further questions or comments on this report, please call your project manager as soon as possible. Thank you for using Inchcape Testing Services.

Susan Kraska Yeager Eaboratory Director

This report consists of 49 pages.

Cristina V. Rayburn Project Manager

ANAMETRIX REPORT DESCRIPTION GCMS

Organic Analysis Data Sheets (OADS)

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

Tentatively Identified Compounds (TICs)

TIC forms contain tabulated results for non-target compounds detected in &C/MS analyses. TICs must be requested at the time samples are submitted at Anametrix. TIC forms immediately follow the DADS 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, \underline{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 "a", 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:

- y Indicates that the compound was analyzed for, but was not detected at or above the specified reporting limit.
- § 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.

8E/3374

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

MR. WALTER HOWARD RUST ENVIRONMENT AND INFRASTRUCTURE

12 METRO PARK ROAD ALBANY, NY 12205

Workorder # : 9411239
Date Received : 11/22/94
Project ID : 35195.624
Purchase Order: N/A
Department : GCMS
Sub-Department: GCMS

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9411239- 1	A4A-BKT1	WATER	11/22/94	8240
9411239- 2	A4A-BKT2	WATER	11/22/94	8240
9411239- 3	A4A-BKT3	WATER	11/22/94	8240
9411239- 4	A4A-BKT4	WATER	11/22/94	8240
9411239- 5	A4A-BKT5	WATER	11/22/94	8240
9411239- 6	A4A-BKT6	WATER	11/22/94	8240
9411239- 7	T. BLANK	WATER	11/22/94	8240

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

MR. WALTER HOWARD RUST ENVIRONMENT AND INFRASTRUCTURE 12 METRO PARK ROAD ALBANY, NY 12205

Workorder # : 9411239 Date Received : 11/22/94 Project ID : 35195.624

Purchase Order: N/A
Department : GCMS
Sub-Department: GCMS

QA/QC SUMMARY :

- All holding times have been met for the analyses reported in this section.

- No QA/QC problems for EPA Method 8240 analysis.

Department Supervisor

11/28/94 Date Lewis Povell

11-28-94 Date

GCMS/GCMS- PAGE 2

Project ID : 35195.62 Sample ID : A4A-BKT1 Matrix : WATER Date Sampled Date Analyzed :11/22/94 :11/25/94 : MSD1

Instrument ID

Anametrix ID 9411239-01 : M Analyst

Supervisor : 06)

Dilution Factor: 20.0 Conc. Units : ug/L

		· · · · · · · · · · · · · · · · · · ·		
CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	200.	ND	-
75-01-4	Vinyl chloride	200.		U
74-83-9	Bromomethane	200.	ND	U
75-00-3	Chloroethane		ND	U
75-69-4	Trichlorofluoromethane	200.	ND	U
75-35-4	1,1-Dichloroethene	100.	ND	U
76-13-1	Trichlorotrifluoroethane	100.	ND	ַט
67-64-1	Acetone	100.	ND	U
75-15-0	Carbon disulfide	400.	ND	Ū
75-09-2	Methylene chloride	100.	ND	U
156-60-5	Trans-1 2-dighter-	100.	ND	U
75-34-3	Trans-1,2-dichloroethene	100.	ND	U
156-59-2	1,1-Dichloroethane	100.	ND	U,
78-93 - 3	Cis-1,2-dichloroethene	100.	ND	U
	2-Butanone	400.	ND	U 1
67-66-3	Chloroform	100.	ND	Ū.
71-55-6	1,1,1-Trichloroethane	100.	ND	Ι υ ΄
56-23-5	Carbon tetrachloride	100.	ND	Ŭ
108-05-4	Vinyl acetate	200.	ND	Ü
71-43-2	Benzene	100.	ND	Ŭ
107-06-2	1,2-Dichloroethane	100.	ND	Ŭ
79-01-6	Trichloroethene	100.	ND	υ
78 - 87-5	1,2-Dichloropropane	100.	ND	Ü
75-27-4	Bromodichloromethane	100.	ND	-
10061-01-5	Cis-1,3-dichloropropene	100.	ND	Ü
108-10-1	4-Methyl-2-pentanone	200.		U
108-88-3	Toluene	100.	ND	U
10061-02-6	Trans-1,3-dichloropropene		ND	U
79-00-5	1,1,2-Trichloroethane —	100.	ND	U
127-18-4	Tetrachloroethene	100.	ND	U
591-78-6	2-Hexanone	100.	ND	U
124-48-1	Dibromochloromethane	200.	ND.	Ŭ
108-90-7	Chlorobenzene	100.	ND	ប
100-41-4		100.	ND /	[บ
1330-20-7	Ethylbenzene	100.	/730.	l i
100-42-5	Xylene (Total)	100.	(6100.)
· · · · · ·	Styrene	100.	ND	ប
75-25-2	Bromoform	100.	ND	ប
79-34-5	1,1,2,2-Tetrachloroethane	100.	ND	Ŭ
541-73-1	1,3-Dichlorobenzene	100.	ND	Ŭ
106-46-7	1,4-Dichlorobenzene	100.	ND	บั
95-50-1	1,2-Dichlorobenzene	100.	ND	υ
				1

Project ID Sample ID Anametrix ID Analyst : 35195.62 : 9411239-02 : M : A4A-BKT2

Matrix : WATER
Date Sampled :11/22/94
Date Analyzed :11/25/94
Instrument ID : MSD1 : pcs Supervisor

20.0

Dilution Factor : Conc. Units : : ug/L

	CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
75-01-4	74-97-2	Chloromethano			
74-83-9					1 -
75-00-3		Vinyi Chioride			1
75-69-4		Chloroothano			1 -
75-35-4			1		1 -
Trichlorotrifluoroethane					1 ~
Acetone		mrichleretrifluereathere			-
75-15-0					1 -
75-09-2				-:-	_
156-60-5					1
75-34-3		methylene chioride			-
156-59-2					
78-93-3 2-Butanone 400. ND U 67-66-3 Chloroform 100. ND U 71-55-6 1,1,1-Trichloroethane 100. ND U 56-23-5 Carbon tetrachloride 100. ND U 108-05-4 Vinyl acetate 200. ND U 71-43-2 Benzene 100. ND U 107-06-2 1,2-Dichloroethane 100. ND U 79-01-6 Trichloroethane 100. ND U 78-87-5 1,2-Dichloropropane 100. ND U 10661-01-5 Cis-1,3-dichloropropene 100. ND U 108-80-3 Toluene 100. ND U 108-88-3 Toluene 100. ND U 107-18-4 Tetras-1,3-dichloropropene 100. ND U 79-00-5 1,1,2-Trichloroethane 100. ND U 127-18-4 Tetrachloroethane 100. ND U 100-41-4 Ethylbenzene 100. ND <td></td> <td></td> <td></td> <td>1</td> <td></td>				1	
67-66-3 Chloroform 100. ND U 71-55-6 1,1,1-TrichIoroethane 100. ND U 56-23-5 Carbon tetrachloride 100. ND U 108-05-4 Vinyl acetate 200. ND U 71-43-2 Benzene 100. ND U 107-06-2 1,2-Dichloroethane 100. ND U 79-01-6 Trichloroethane 100. ND U 78-87-5 1,2-Dichloropropane 100. ND U 75-27-4 Bromodichloromethane 100. ND U 108-10-1 4-Methyl-2-pentanone 100. ND U 108-88-3 Toluene 100. ND U 108-88-3 Toluene 100. ND U 127-18-4 Tetrachloroethane 100. ND U 127-18-4 Tetrachloroethane 100. ND U 100-41-4 Ethylbenzene 100. ND U 100-42-5 Styrene 100. ND U <td></td> <td></td> <td></td> <td>l</td> <td></td>				l	
71-55-6 1,1,1-Trichloroethane 100. ND U 56-23-5 Carbon tetrachloride 100. ND U 108-05-4 Vinyl acetate 200. ND U 71-43-2 Benzene 100. ND U 107-06-2 1,2-Dichloroethane 100. ND U 79-01-6 Trichloroethene 100. ND U 78-87-5 1,2-Dichloropropane 100. ND U 75-27-4 Bromodichloromethane 100. ND U 10061-01-5 Cis-1,3-dichloropropene 100. ND U 108-83-3 Toluene 100. ND U 108-88-3 Toluene 100. ND U 1061-02-6 Trans-1,3-dichloropropene 100. ND U 127-18-4 Tetrachloroethane 100. ND U 127-18-4 Tetrachloroethane 100. ND U 100-41-4 Ethylbenzene 100.<					
S6-23-5					, -
108-05-4		1,1,1-Trichloroethane			
T1-43-2		Carbon tetrachloride			_
107-06-2 1,2-Dichloroethane 100. ND U 79-01-6 Trichloroethene 100. ND U 78-87-5 1,2-Dichloropropane 100. ND U 75-27-4 Bromodichloromethane 100. ND U 108-10-1 4-Methyl-2-pentanone 100. ND U 108-88-3 Toluene 100. ND U 1061-02-6 Trans-1,3-dichloropropene 100. ND U 79-00-5 1,1,2-Trichloroethane 100. ND U 127-18-4 Tetrachloroethene 100. ND U 591-78-6 2-Hexanone 200. ND U 108-90-7 Chlorobenzene 100. ND U 100-41-4 Ethylbenzene 100. ND U 100-42-5 Styrene 100. ND U 79-34-5 1,1,2,2-Tetrachloroethane 100. ND U 541-73-1 1,3-Dichlorobenzene 100. ND U					
79-01-6 Trichloroethene 100. ND U 78-87-5 1,2-Dichloropropane 100. ND U 75-27-4 Bromodichloromethane 100. ND U 10061-01-5 Cis-1,3-dichloropropene 100. ND U 108-10-1 4-Methyl-2-pentanone 200. ND U 108-88-3 Toluene 100. ND U 1061-02-6 Trans-1,3-dichloropropene 100. ND U 79-00-5 1,1,2-Trichloroethane 100. ND U 127-18-4 Tetrachloroethene 100. ND U 591-78-6 2-Hexanone 200. ND U 108-90-7 Chlorobenzene 100. ND U 100-41-4 Ethylbenzene 100. ND U 100-42-5 Styrene 100. ND U 79-34-5 1,1,2,2-Tetrachloroethane 100. ND U 541-73-1 1,3-Dichlorobenzene				ND	U
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10061-01-5 Cis-1,3-dichloropropene 100. ND U 108-10-1 4-Methyl-2-pentanone 200. ND U 108-88-3 Toluene 100. ND U 10061-02-6 Trans-1,3-dichloropropene 100. ND U 79-00-5 1,1,2-Trichloroethane 100. ND U 127-18-4 Tetrachloroethene 100. ND U 591-78-6 2-Hexanone 200. ND U 108-90-7 Chlorobenzene 100. ND U 100-41-4 Ethylbenzene 100. ND U 1330-20-7 Xylene (Total) 100. ND U 100-42-5 Styrene 100. ND U 75-25-2 Bromoform 100. ND U 79-34-5 1,1,2,2-Tetrachloroethane 100. ND U 541-73-1 1,3-Dichlorobenzene 100. ND U		1,2-Dichloropropane			
108-10-1 4-Methyl-2-pentanone 200. ND U 108-88-3 Toluene 100. ND U 10061-02-6 Trans-1,3-dichloropropene 100. ND U 79-00-5 1,1,2-Trichloroethane 100. ND U 127-18-4 Tetrachloroethane 100. ND U 591-78-6 2-Hexanone 200. ND U 124-48-1 Dibromochloromethane 100. ND U 108-90-7 Chlorobenzene 100. ND U 1330-20-7 Xylene (Total) 100. 6700. U 100-42-5 Styrene 100. ND U 75-25-2 Bromoform 100. ND U 79-34-5 1,1,2,2-Tetrachloroethane 100. ND U 541-73-1 1,3-Dichlorobenzene 100. ND U		Bromodichloromethane		ND	
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127-18-4 Tetrachloroethene 100. ND U 591-78-6 2-Hexanone 200. ND U 124-48-1 Dibromochloromethane 100. ND U 108-90-7 Chlorobenzene 100. ND U 100-41-4 Ethylbenzene 100. 100. 0 1330-20-7 Xylene (Total) 100. ND U 100-42-5 Styrene 100. ND U 75-25-2 Bromoform 100. ND U 79-34-5 1,1,2,2-Tetrachloroethane 100. ND U 541-73-1 1,3-Dichlorobenzene 100. ND U	10061-02-6	Trans-1,3-dichloropropene	100.	ND	U
127-18-4 Tetrachloroethene 100. ND U 591-78-6 2-Hexanone 200. ND U 124-48-1 Dibromochloromethane 100. ND U 108-90-7 Chlorobenzene 100. ND U 100-41-4 Ethylbenzene 100. 100. 0 1330-20-7 Xylene (Total) 100. ND U 100-42-5 Styrene 100. ND U 75-25-2 Bromoform 100. ND U 79-34-5 1,1,2,2-Tetrachloroethane 100. ND U 541-73-1 1,3-Dichlorobenzene 100. ND U		1,1,2-Trichloroethane	100.	ND	U
591-78-6 2-Hexanone 200. ND U 124-48-1 Dibromochloromethane 100. ND U 108-90-7 Chlorobenzene 100. ND U 100-41-4 Ethylbenzene 100. 1100. 6700. 1330-20-7 Xylene (Total) 100. ND U 100-42-5 Styrene 100. ND U 75-25-2 Bromoform 100. ND U 79-34-5 1,1,2,2-Tetrachloroethane 100. ND U 541-73-1 1,3-Dichlorobenzene 100. ND U	127-18-4	Tetrachloroethene	100.	ND	
124-48-1 Dibromochloromethane 100. ND U 108-90-7 Chlorobenzene 100. ND U 100-41-4 Ethylbenzene 100. 1100. 6700. 1330-20-7 Xylene (Total) 100. ND U 100-42-5 Styrene 100. ND U 75-25-2 Bromoform 100. ND U 79-34-5 1,1,2,2-Tetrachloroethane 100. ND U 541-73-1 1,3-Dichlorobenzene 100. ND U	591-78-6	2-Hexanone		ND	
108-90-7	124-48-1	Dibromochloromethane	100.	ND	
100-41-4 Ethylbenzene 100. 1100. 6700. 1330-20-7 Xylene (TotaI) 100. 6700. 100-42-5 Styrene 100. ND U 75-25-2 Bromoform 100. ND U 79-34-5 1,1,2,2-Tetrachloroethane 100. ND U 541-73-1 1,3-Dichlorobenzene 100. ND U	108-90-7			ND	,
1330-20-7 Xylene (TotaI) 100. 6700. 100-42-5 Styrene 100. ND 75-25-2 Bromoform 100. ND U 79-34-5 1,1,2,2-Tetrachloroethane 100. ND U 541-73-1 1,3-Dichlorobenzene 100. ND U	100-41-4	Ethylbenzene			Ň
100-42-5 Styrene 100. ND. U 75-25-2 Bromoform 100. ND. U 79-34-5 1,1,2,2-Tetrachloroethane 100. ND. U 541-73-1 1,3-Dichlorobenzene 100. ND. U	1330-20-7	Xvlene (TotaI)	1)
75-25-2 Bromoform 100. ND U 79-34-5 1,1,2,2-Tetrachloroethane 100. ND U 541-73-1 1,3-Dichlorobenzene 100. ND U	100-42-5	Styrene	1	, , , , , ,	Y _{TT}
79-34-5	75-25-2				
541-73-1 1,3-Dichlorobenzene 100. ND U					
,,				· ·	
95-50-1 1,2-Dichlorobenzene 100. ND U					

Project ID
Sample ID
Matrix
Date Sampled
Date Analyzed
Instrument ID : 35195.62 : A4A-BKT3

: WATER :11/22/94 :11/25/94 : MSD1

Anametrix ID : 9411239-03

Analyst : M Supervisor : DIS

Dilution Factor : 100.0 Conc. Units : ug/L

		 	· · · · · · · · · · · · · · · · · · ·	
CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	1000.	MD	TT
75-01-4	Vinyl chloride	1000.	ND	n
74-83-9	Bromomethane	1000.	ND ND	Ü
75-00-3	Chloroethane	1000.	ND ND	U U
75-69-4	Trichlorofluoromethane	500.	ND	l ü
75-35-4	1,1-Dichloroethene	500.	ND	ָ ט
76-13-1	Trichlorotrifluoroethane	500.	ND ND	บี
67-64-1	Acetone	2000.	ND	Ü
75-15-0	Carbon disulfide	500.	ND	Ü
75-09-2	Methylene chloride	500.	ND	Ü.
156-60-5	Trans-1,2-dichloroethene	500.	ND	บ
75-34-3	1,1-Dichloroethane	500.	ND	
156-59-2	Cis-1,2-dichloroethene	500.	ND	U
78 - 93-3	2-Butanone	2000.	ND	บั
67 - 66-3	Chloroform	500.	ND	Ü
71-55-6	1,1,1-Trichloroethane	500.	ND	Ü
56-23-5	Carbon tetrachloride	500.	ND	บ็
108-05-4	Vinyl acetate	1000.	ND	Ü
71-43-2	Benzene	500.	ND	υ
107-06-2	1,2-Dichloroethane	500.	ND	บ็
79-01-6	Trichloroethene	500.	ND	Ü
78-87 - 5	1,2-Dichloropropane	500.	ND	lΰ
75-27-4	Bromodichloromethane	500.	ND	บี
10061-01-5	Cis-1,3-dichloropropene	500.	ND ND	Ŭ
108-10-1	4-Methyl-2-pentanone	1000.	ND	Ü
108-88-3	Toluene	500.	ND	บ็
10061-02-6	Trans-1, 3-dichloropropene	500.	ND	Ü
79-00 - 5	1,1,2-Trichloroethane	500.	ND ND	บ็
127-18-4	Tetrachloroethene	500.	ND	Ŭ
591 - 78-6	2-Hexanone	1000.	ND	Ü
124-48-1	Dibromochloromethane	500.	ND	Ū
108-90-7	Chlorobenzene	500.	ND	บ
100-41-4	Ethylbenzene	500.	3900.	١,0
1330-20-7	Xylene (Total)	500.	17000.) .
100-42-5	Styrene` '	500.	ND .	U
75-25 - 2	Bromoform	500.	ND	Ü
79-34-5	1,1,2,2-Tetrachloroethane	500.	ND	Ū
541-73-1	1,3-Dichlorobenzene	500.	ND I	Ü
106-46-7	1,4-Dichlorobenzene	500.	ND ND	บ
95-50-1	1,2-Dichlorobenzene	500.	ND	Ū
		500.	ן איז	Ų

: 35195.62 : A4A-BKT4 : WATER :11/22/94 :11/25/94 : MSD1 Project ID Sample ID Matrix

Date Sampled Date Analyzed Instrument ID

Anametrix ID : 9411239-04

: 20 Analyst Supervisor :065

Dilution Factor: 100.0 Conc. Units : ug/L

CAS No. COMPOUND NAME REPORTING LIMIT AMOUNT DETECTED Q 74-87-3 75-01-4 74-83-9 8000000000000000000000000000000000000	I				
75-01-4	CAS No.	COMPOUND NAME			Q
75-01-4	74-87-3	Chloromethane	1000	ND	
T4-83-9	75-01-4			1	
75-00-3	74-83-9				
Trichlorofluoromethane					1 -
75-35-4				I	_
Trichlorotrifluoroethane		1 1-Dichloroethene		·	1 -
Acetone		Trichlorotrifluoroethane			_
75-15-0					1 -
ND	· · · · · · · · · · · · · · · · · · ·				1 -
156-60-5					1 -
75-34-3	·				
156-59-2					
Table Tabl		1,1-Dichioroethane			U
78-93-3 2-Butanone 2000. ND U 71-55-6 1,1,1-Trichloroethane 500. ND U 108-05-4 Vinyl acetate 500. ND U 107-06-2 1,2-Dichloroethane 500. ND U 107-06-2 1,2-Dichloroethane 500. ND U 108-05-4 Vinyl acetate 500. ND U 107-06-2 1,2-Dichloroethane 500. ND U 108-05-27-4 Bromodichloromethane 500. ND U 108-10-1 4-Methyl-2-pentanone 500. ND U 108-10-		Cis-1,2-dichioroethene		ND	
71-55-6			2000.	ND	ʊ ``
S6-23-5			500.	ND	U
108-05-4		1,1,1-Trichloroethane	500.	ND	4 -
108-05-4	56-23 - 5	Carbon tetrachloride	500.	ND	ĪĪ
T1-43-2	108-05-4	Vinyl acetate	1000.		1 '
107-06-2	71-43-2	Benzene			
79-01-6 Trichloroethene 500. ND U 78-87-5 1,2-Dichloropropane 500. ND U 75-27-4 Bromodichloromethane 500. ND U 10061-01-5 Cis-1,3-dichloropropene 500. ND U 108-10-1 4-Methyl-2-pentanone 1000. ND U 108-88-3 Toluene 500. ND U 79-00-5 1,1,2-Trichloropropene 500. ND U 79-00-5 1,1,2-Trichloroethane 500. ND U 127-18-4 Tetrachloroethene 500. ND U 591-78-6 2-Hexanone 1000. ND U 108-90-7 Chlorobenzene 500. ND U 100-41-4 Ethylbenzene 500. ND U 100-42-5 Styrene 500. ND U 79-34-5 1,1,2,2-Tetrachloroethane 500. ND U 541-73-1 1,3-Dichlorobenzene	107-06-2	1,2-Dichloroethane			
78-87-5 1,2-Dichloropropane 500. ND U 75-27-4 Bromodichloromethane 500. ND U 10061-01-5 4-Methyl-2-pentanone 500. ND U 108-10-1 4-Methyl-2-pentanone 1000. ND U 108-88-3 Toluene 500. ND U 79-00-5 1,1,2-Trichloropropene 500. ND U 127-18-4 Tetrachloroethane 500. ND U 591-78-6 2-Hexanone 1000. ND U 108-90-7 Chlorobenzene 500. ND U 100-41-4 Ethylbenzene 500. ND U 100-42-5 Styrene 500. ND U 79-34-5 1,1,2,2-Tetrachloroethane 500. ND U 541-73-1 1,3-Dichlorobenzene 500. ND U 106-46-7 1,4-Dichlorobenzene 500. ND U	79-01-6				
Toluene	78-87-5				
10061-01-5	75-27-4	Bromodichloromethane			
108-10-1		Cis-1 3-dichloropropene			
Toluene		4-Methyl-2-nentanone	1 ' ' ' 1		
10061-02-6 Trans-1,3-dichloropropene 500. ND U 79-00-5 1,1,2-Trichloroethane 500. ND U 127-18-4 Tetrachloroethene 500. ND U 591-78-6 2-Hexanone 1000. ND U 124-48-1 Dibromochloromethane 500. ND U 100-41-4 Ethylbenzene 500. ND U 1330-20-7 Xylene (Total) 500. ND U 100-42-5 Styrene 500. ND U 75-25-2 Bromoform 500. ND U 79-34-5 1,1,2,2-Tetrachloroethane 500. ND U 541-73-1 1,3-Dichlorobenzene 500. ND U 106-46-7 1,4-Dichlorobenzene 500. ND U			1		
79-00-5 1,1,2-Trichloroethane 500. ND U 127-18-4 Tetrachloroethane 500. ND U 591-78-6 2-Hexanone 1000. ND U 124-48-1 Dibromochloromethane 500. ND U 108-90-7 Chlorobenzene 500. ND U 130-41-4 Ethylbenzene 500. ND U 130-42-5 Styrene 500. ND U 75-25-2 Bromoform 500. ND U 79-34-5 1,1,2,2-Tetrachloroethane 500. ND U 541-73-1 1,3-Dichlorobenzene 500. ND U 106-46-7 1,4-Dichlorobenzene 500. ND U			1 1	. –	
127-18-4 Tetrachloroethene 500. ND U 591-78-6 2-Hexanone 1000. ND U 124-48-1 Dibromochloromethane 500. ND U 108-90-7 Chlorobenzene 500. ND U 130-20-7 Xylene (Total) 500. 18000. ND 100-42-5 Styrene 500. ND U 75-25-2 Bromoform 500. ND U 79-34-5 1,1,2,2-Tetrachloroethane 500. ND U 541-73-1 1,3-Dichlorobenzene 500. ND U 106-46-7 1,4-Dichlorobenzene 500. ND U		1 1 2-maighlementhans			
591-78-6 2-Hexanone 1000. ND U 124-48-1 Dibromochloromethane 500. ND U 108-90-7 Chlorobenzene 500. ND U 100-41-4 Ethylbenzene 500. 3900. 18000. 1330-20-7 Xylene (Total) 500. ND U 100-42-5 Styrene 500. ND U 75-25-2 Bromoform 500. ND U 79-34-5 1,1,2,2-Tetrachloroethane 500. ND U 541-73-1 1,3-Dichlorobenzene 500. ND U 106-46-7 1,4-Dichlorobenzene 500. ND U		motrochloroethane	1		
124-48-1 Dibromochloromethane 500. ND U 108-90-7 Chlorobenzene 500. ND U 100-41-4 Ethylbenzene 500. 3900. 3900. 1330-20-7 Xylene (Total) 500. ND U 100-42-5 Styrene 500. ND U 75-25-2 Bromoform 500. ND U 79-34-5 1,1,2,2-Tetrachloroethane 500. ND U 541-73-1 1,3-Dichlorobenzene 500. ND U 106-46-7 1,4-Dichlorobenzene 500. ND U	·				1
108-90-7 Chlorobenzene 500. ND U 100-41-4 Ethylbenzene 500. 3900. 3900. 1330-20-7 Xylene (TotaI) 500. 18000. U 100-42-5 Styrene 500. ND U 75-25-2 Bromoform 500. ND U 79-34-5 1,1,2,2-Tetrachloroethane 500. ND U 541-73-1 1,3-Dichlorobenzene 500. ND U 106-46-7 1,4-Dichlorobenzene 500. ND U		2-nexanone		ND	
100-41-4 Ethylbenzene 500. 3900. 1330-20-7 Xylene (TotaI) 500. 18000. 100-42-5 Styrene 500. ND 75-25-2 Bromoform 500. ND U 79-34-5 1,1,2,2-Tetrachloroethane 500. ND U 541-73-1 1,3-Dichlorobenzene 500. ND U 106-46-7 1,4-Dichlorobenzene 500. ND U		Dipromocnioromethane		ND	
1330-20-7 Xylene (TotaI) 500. 18000. 100-42-5 Styrene 500. ND 75-25-2 Bromoform 500. ND U 79-34-5 1,1,2,2-Tetrachloroethane 500. ND U 541-73-1 1,3-Dichlorobenzene 500. ND U 106-46-7 1,4-Dichlorobenzene 500. ND U			500.		Ü
100-42-5		Ethylbenzene)
100-42-5	– – .	Xylene (Total)	500.	(18000.	,
75-25-2 Bromoform 79-34-5 1,1,2,2-Tetrachloroethane 500. ND U 541-73-1 1,3-Dichlorobenzene 106-46-7 1,4-Dichlorobenzene 500. ND U 1,4-Dichlorobenzene 500. ND U		Styrene	500.		ן ט
79-34-5			l i		
541-73-1 1,3-Dichlorobenzene 500. ND U U U		1,1,2,2-Tetrachloroethane			
106-46-7 1,4-Dichlorobenzene 500. ND U		1,3-Dichlorobenzene —	1	_	_
OF FO 1 1,0 P. 1.1.	106-46-7	1,4-Dichlorobenzene	1		
		1,2-Dichlorobenzene	l l		
	· · · -]	מא	U

Project ID Sample ID : 35195.62 : A4A-BKT5 Matrix : WATER

:11/22/94 :11/25/94 : MSD1 Date Sampled Date Analyzed

Instrument ID

: 9411239-05 : DP Anametrix ID

Analyst Supervisor : 005

Dilution Factor : Conc. Units : 20.0

: ug/L

		···		
CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	200.	ND	U
75-01-4	Vinyl chloride	200.	ND	
74-83-9	Bromomethane	200.	ND	U
75-00-3	Chloroethano	-	ND	U
75-69-4	Trichlorofluoromethane	100.	ND	ชื่
75-35-4	l.l=DlCnloroetnene	1 100	ND	Ü
76-13-1	Trichlorotrifluoroethane	100.	ND	
67-64-1	Acetone	400.	ND	U
75-15-0	Carbon disulfide	100.		U
75-09-2	Methylene chloride	100.	ND	U
156-60-5	Trans-1,2-dichloroethene	100.	ND	U
75-34-3	1,1-Dichloroethane		ND	Ü
156-59-2	Cis-1,2-dichloroethene	100.	ND	U
78-93-3	2-Butanone	100.	ND	10
67-66-3		400.	ND	10
71-55-6	Chloroform 1,1,1-Trichloroethane	100.	ND	U :
56 - 23-5	Carbon totrockleride	100.	ND	U
108-05-4	Carbon tetrachloride	100.	ND	U
71-43-2	Vinyl acetate	200.	ND	U
107-06-2	Benzene	100.	ND	U
79-01-6	1,2-Dichloroethane	100.	ND	U
	Trichloroethene	100.	ND	U
78-87-5	1,2-Dichloropropane	100.	ND	U
75-27-4	Bromodichloromethane	100.	ND	U
10061-01-5	Cis-1,3-dichloropropene	100.	ND	U
108-10-1	4-Methyl-2-pentanone_	200.	ND	U ,
108-88-3	Toluene	100.	ND	U
10061-02-6	Trans-1,3-dichloropropene 1,1,2-Trichloroethane	100.	ND	U
79-00-5	1,1,2-Trichloroethane	100.	ND	บ
127-18-4	Tetrachloroethene	100.	ND	Ū
591-78-6	2-Hexanone	200.	ND	lŬ
124-48-1	Dibromochloromethane	100.	ND	Ŭ
108-90-7	Chioropenzene	100.	ND	Ŭ
100-41-4	ECHVIDENZENE	100.	ND	ן ט
1330-20-7	Xylene (Total)	100.	(2500.)	١٥
100-42-5	Styrene	100.	ND 2300.	[บ
75-25-2	Bromoform	100.	ND ND	ŭ
79-34-5	1,1,2,2-Tetrachloroethane	100.	ND	ן ט
541-73-1	1,3-Dichlorobenzene	100.	ND	บ
106-46-7	1,4-Dichlorobenzene	100.	ND ND	បី
95-50-1	1,2-Dichlorobenzene			
	-/- Promioropembene	100.	ND	ט
l				! !

Project ID Sample ID : 35195.62 : A4A-BKT6 Matrix : WATER

Date Sampled Date Analyzed :11/22/94

:11/25/94 : MSD1 Instrument ID

Anametrix ID : 9411239-06

Analyst : W Supervisor :065

Dilution Factor :

Conc. Units : ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	200.	ND	U U
75-01-4	Vinyl chloride	200.	ND	Ü
74-83-9	Bromomethane	200.	ND	บั
75-00-3	Chloroethane	200.	ND	บั
75-69-4	Trichlorofluoromethane	100.	ND	υ
75-35-4	1,1-Dichloroethene	100.	ND	lμ
76-13-1	Trichlorotrifluoroethane	100.	ND	Ü
67-64-1	Acetone	400.	ND	Ü
75-15-0	Carbon disulfide	100.	ND	ט
75-09-2	Methylene chloride	100	ND	Ü
156-60-5	Trans-1,2-dichloroethene	100.	ND	บ็
75-34-3	1,1-Dichloroethane	100.	ND	
156-59-2	Cis-1,2-dichloroethene	100.	ND ND	U
78-93-3	2-Butanone	400.		, –
67-66-3	Chloroform	100.	ND	10
71-55-6	1,1,1-Trichloroethane		ND	Ū :
56-23-5	Carbon tetrachloride	100.	ND	U
108-05-4	Vinyl acetate		ND	U
71-43-2	Benzene	200.	ND	Ū
107-06-2	1,2-Dichloroethane	100.	ND	U
79-01-6	Trichloroethene	100.	ND	ū
78-87-5	1,2-Dichloropropane	100.	ND	U
75-27-4	Bromodichloromethane	100.	ND	U
10061-01-5	Cis-1,3-dichloropropene	100.	ND	U
108-10-1	4-Methyl-2-pentanone	100.	ND	U
108-88-3	Toluene Toluene	200.	ND	U
100-00-3	Totuene	100.	ND	U
· ·	Trans-1,3-dichloropropene	100.	ND	U
79-00-5	1,1,2-Trichloroethane	100.	ND	U
127-18-4	Tetrachloroethene	100.	ND	U
591-78-6	2-Hexanone	200.	ND	U
124-48-1	Dibromochloromethane	100.	ND	U
108-90-7	Chlorobenzene	100.	ND	U
100-41-4	Ethylbenzene	100.	ND	U
1330-20-7	Xylene (Total)	100.	(2500.)	
100-42-5	Styrene	100.	ND	U
75-25-2	Bromoform	100.	ND	U
79-34-5	1,1,2,2-Tetrachloroethane	100.	ND	U
541-73-1	1,3-Dichlorobenzene	100.	ИD	Ū
106-46-7	1,4-Dichlorobenzene	100.	ND	Ū
95-50-1	1,2-Dichlorobenzene	100.	ND	Ū

Project ID : 35195.62 Sample ID Matrix Date Sampled : T. BLANK : WATER

:11/22/94 :11/25/94 : MSD1

Date Analyzed Instrument ID

Anametrix ID : 9411239-07 : H

Analyst Supervisor : DCS

Dilution Factor : Conc. Units : 1.0

: ug/L

CAS No. COMPOUND NAME 74-87-3 Chloromethane 75-01-4 Vinyl chloride	REPORTING LIMIT	AMOUNT DETECTED	Q
75-01-4 Vinyl chloride	_ 1		4
75-01-4 Vinyl chloride	_ 1	3775	
		ND	U
74-83-9 Bromomethane	10.	ND	U
75-00-3 Chloroethane	10.	ND	Ü
75-69-4 Trichlorofluoromethane		ND	U
75-35-4 1,1-Dichloroethene	5.	ND	U
76-13-1 Trichlorotrifluoroethane	5. 5.	ND	ū
67-64-1 Acetone		ND	U
75-15-0 Carbon disulfide	20.	ND	<u>U</u> .
75-09-2 Methylene chloride	5.	ND	<u>u</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	5.	ND	U
67-66-3 Chloroform	20.	ND	<u>u</u> '
	5.	ND	U
	5.	ND	U
	5.	ND	U
	10.	ND	U
	5.	ND	U
	5.	ND	U
	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	ប
10061-02-6 Trans-1,3-dichloropropene	5.	ND	Ū
79-00-5 1,1,2-Trichloroethane	5.	ND	U
127-18-4 Tetrachloroethene	5.	ND	l ซ
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	Ū
1330-20-7	5.	ND	Ū
100-42-5 Styrene	5.	ND	Ū
75-25-2 Bromoform	5.	ND	Ŭ
79-34-5 1,1,2,2-Tetrachloroethane	5.	ND	Ü
541-73-1 1,3-Dichlorobenzene	5.	ND	Ü
106-46-7 1,4-Dichlorobenzene	5.	ND	Ü
95-50-1 1,2-Dichlorobenzene	5.	ND	Ü
] , ,	.,,,	

Project ID
Sample ID
Matrix
Date Sampled
Date Analyzed
Instrument ID

VBLKOL WATER 0/ 0/ 0 :11/25/94 : MSD1 Anametrix ID : BN2502A2 Analyst : M

Supervisor : وي

Dilution Factor: 1.0 Conc. Units: ug/L

CAS No.	COMPOUND NAME	REPORTING LIMIT	AMOUNT DETECTED	Q
74-87-3	Chloromethane	10.	ND	
75-01-4	Vinyl chloride	- 10:	ND ND	U
74-83-9	Bromomethane	- 10.	ND	ט
75-00-3	Chloroethane	- 10.	ND	บ็
75-69-4	Trichlorofluoromethane	- 5.	ND ND	Ü
75-35-4	1,1-Dichloroethene	- 5.	ND ND	บ
76-13-1	Trichlorotrifluoroethane	- 5.	ND ND	Ü
67-64-1	Acetone	- 20:	ND	Ü
75-15-0	Carbon disulfide	5.	ND.	υ
75-09-2	Methylene chloride	- 5.	ND	lΰ
156-60-5	Trans-1,2-dichloroethene	5.	ND	77
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	Ü
71-55-6	1,1,1-Trichloroethane	5.	ND	บั
56-23-5	Carbon tetrachloride	- 5.	ND	Ü
108-05-4	Vinyl acetate	10.	ND	Ü
71-43-2	Benzene	-	ND ·	บ
107-06-2	1,2-Dichloroethane	5.	ND ND	Ü
79-01-6	Trichloroethene	- 5.	ND	Ü
78-87-5	1,2-Dichloropropane	5.	ND ND	ט
75-27-4	Bromodichloromethane	5.	ND ND	
10061-01-5	Cis-1,3-dichloropropene	- 5. 5.	ND ND	U
108-10-1	4-Methyl-2-pentanone	10.	ND	ט
108-88-3	Toluene	- 5.		
10061-02-6	Trans-1,3-dichloropropene	5.	ND	U
79-00-5	1,1,2-Trichloroethane		ND	U
127-18-4	Tetrachloroethene	5. 5.	ND	Ü
591-78-6	2-Hexanone	_	ND	ŭ
124-48-1	Dibromochloromethane	10.	ND	U
108-90-7	Chlorobenzene	5. 5.	ND	U
100-41-4	Ethylbenzene		ND	ū
1330-20-7	Xylene (Total)	5. 5.	ND	Ū
100-42-5	Styrene	5.	ND	U
75-25-2	Bromoform		ND	Ŭ
79-34-5	1,1,2,2-Tetrachloroethane	5.	ND	U
541-73-1		5.	ND	Ū
106-46-7	1,3-Dichlorobenzene	5.	ND	Ŭ
95-50-1	1,4-Dichlorobenzene	5.	ND	Ū
90-00 - 1	1,2-Dichlorobenzene	5.	ND.	U

SURROGATE RECOVERY SUMMARY -- EPA METHOD 8240 ANAMETRIX, INC. (408)432-8192

Project ID : 35195.62 Matrix : LIQUID

Anametrix ID: 9411239 Analyst: M

Supervisor :05

	ı 			
	SAMPLE ID	SU1	SU2	SU3
12345678901123145167890123	VBLKOL VLCSPC A4A-BKT3 T. BLANK A4A-BKT1 A4A-BKT2 A4A-BKT4 A4A-BKT6 A4A-BKT5	95 95 96 95 95 96 96 95	SU2 103 103 102 102 103 104 102 101 103	SU3 101 100 98 100 99 97 100 98 98
22 23 24 25				
26 27				
28 29 30				
20				

			QC	LIMITS
SII1	==	1,2-Dichloroethane-d4	176	 112\
GIIO	_	Toluene-d8		5-113)
				3-110)
503	=	1,4-Bromofluorobenzene	(82	2-114)

^{*} Values outside of Anametrix QC limits

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

Project/Case

Anametrix ID

: MN2501A2.D

Matrix

: WATER

Analyst

: W

Date Sampled

Supervisor

Date Analyzed

: 25 Nov 94 1:09 pm

SDG/Batch

: 00 :

Instrument ID

: MSD1

Sample ID

: VLCSPC @ 50ug/

1			LCS	%REC
ADDED	CONCENTRATION	CONCENTRATION	8	LIMITS
(ug/L)	(ug/L)	(ug/L)	REC	
50	0	45	91	72-14
50	0	51	101	83-12
50	0	48		61-14
50	o			82-12
50	0	48	95	82-12
	(ug/L) 50 50 50 50	(ug/L) (ug/L) 50 0 50 0 50 0 50 0 50 0	(ug/L) (ug/L) (ug/L) 50 0 45 50 0 51 50 0 48 50 0 49	(ug/L) (ug/L) (ug/L) REC 50 0 45 91 50 0 51 101 50 0 48 96 50 0 49 98

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, except for Method 6010A, which is 80-120% with 25% 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 75-125%.

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.

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

MR. WALTER HOWARD

RUST ENVIRONMENT AND INFRASTRUCTURE

12 METRO PARK ROAD ALBANY, NY 12205

Project ID : 35195.624

Workorder # : 9411239 Date Received : 11/22/94

Purchase Order: N/A

Department : METALS Sub-Department: METALS

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9411239- 1	A4A-BKT1	WATER	11/22/94	T 22-MET
9411239- 2	A4A-BKT2	WATER	11/22/94	T 22-MET
9411239- 3	A4A-BKT3	WATER	11/22/94	T 22-MET
9411239- 4	A4A-BKT4	WATER	11/22/94	T 22-MET
9411239- 5	A4A-BKT5	WATER	11/22/94	T 22-MET
9411239- 6	A4A-BKT6	WATER	11/22/94	Т 22-МЕТ

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

MR. WALTER HOWARD RUST ENVIRONMENT AND INFRASTRUCTURE 12 METRO PARK ROAD ALBANY, NY 12205

Workorder # : 9411239 Date Received : 11/22/94 Project ID : 35195.624

Purchase Order: N/A
Department : METALS
Sub-Department: METALS

QA/QC SUMMARY :

- All holding times have been met for the analyses reported in this section.

Walley Court 1/29/94
Department Supervisor Dat

Chemist

Date

Anametrix Sample ID: 9411239-01 Client Sample ID: A4A-BKT1 Client Project Number: 35195.624

Matrix: WATER

Date Sampled: 11/22/94

Analyst: 50

Supervisor: W

Analyte	Prep. Method	Analytical Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Reporting Limit	Results	Q
Antimony	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	60.0	ND	+-
Arsenic	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.0	ND	-
Barium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	100	ND	
Beryllium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	5.0	ND	
Cadmium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	5.0	ND	-
Chromium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.0	ND	-
Cobalt	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	50.0	ND	\vdash
Copper	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	25.0	29.9	-
Lead	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	3.0	7.8	
Mercury	7470	7470	HGA1	11/23/94	11/29/94	1	ug/L	0.20	ND	
Molybdenum	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.0	ND	
Nickel	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	40.0	ND ND	
Selenium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	5.0	ND	
Silver	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.0	ND	· ·
Thallium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.0	ND	-
Vanadium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	50.0	ND	-
Zinc	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	20.0	125	

Anametrix Sample ID: 9411239-02 Client Sample ID: A4A-BKT2 Client Project Number: 35195.624

Matrix: WATER

Date Sampled: 11/22/94

Analyst:

Analyte	Prep. Method	Analytical Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Reporting Limit	Results	Q
Antimony	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	60.0	ND	+
Arsenic	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.0	ND	
Barium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	100	159	-
Beryllium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	5.0	ND	
Cadmium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	5.0	ND	
Chromium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.0	ND	
Cobalt	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	50.0	ND	-
Copper	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	25.0	35.8	_
Lead	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	3.0	16.4	
Mercury	7470	7470	HGA1	11/23/94	11/29/94	1	ug/L	0.20	ND	<u> </u>
Molybdenum	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.0	10.4	
Nickel	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	40.0	ND	
Selenium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	5.0	ND	
Silver	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.0	ND	
Thallium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.0	ND	_
Vanadium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	50.0	ND	
Zinc	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	20.0	116	

Anametrix Sample ID: 9411239-03 Client Sample ID: A4A-BKT3 Client Project Number: 35195.624

Matrix: WATER

Date Sampled: 11/22/94

Analyst: JC

Supervisor: WN

Analyte	Prep. Method	Analytical Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Reporting Limit	Results	Q
Antimony	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	60.0	ND	+
Arsenic	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.0	ND	+
Barium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	100	ND	-
Beryllium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	5.0	ND	
Cadmium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	5.0	ND	
Chromium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.0	ND	
Cobalt	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	50.0	ND	+
Copper	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	25.0	ND	
Lead	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	3.0	4.0	├
Mercury	7470	7470	HGA1	11/23/94	11/29/94	1	ug/L	0.20	ND ND	-
Molybdenum	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.0	ND	
Nickel	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	40.0	ND	<u> </u>
Selenium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	5.0	ND	
Silver	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.0	ND	 -
Thallium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.0	ND	
Vanadium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	50.0	ND	
Zinc	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	20.0	63.9	

Anametrix Sample ID: 9411239-04 Client Sample ID: A4A-BKT4 Client Project Number: 35195.624

Matrix: WATER

Date Sampled: 11/22/94

Analyst:

Supervisor: W

Analyte	Prep. Method	Analytical Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Reporting Limit	Results	Q
Antimony	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	60.0	ND	
Arsenic	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.0	ND	†
Barium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	100	ND	
Beryllium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	5.0	ND	
Cadmium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	5.0	ND	
Chromium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.0	ND	1
Cobalt	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	50.0	ND	
Copper	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	25.0	ND	<u> </u>
Lead	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	3.0	6.8	+
Mercury	7470	7470	HGA1	11/23/94	11/29/94	1	ug/L	0.20	ND	T
Molybdenum	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.0	ND	
Nickel	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	40.0	ND	
Selenium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	5.0	ND	
Silver	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.0	ND	
Thallium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.0	ND	
Vanadium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	50.0	ND	
Zinc	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	20.0	82.9	

Anametrix Sample ID: 9411239-05 Client Sample ID: A4A-BKT5

Client Project Number: 35195.624

Matrix: WATER

Date Sampled: 11/22/94

Analyst: 🗸 🤇

Supervisor: W

Analyte	Prep. Method	Analytical Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Reporting Limit	Results	Q
Antimony	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	60.0	ND	
Arsenic	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.0	ND	+
Barium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	100	ND	+
Beryllium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	5.0	ND	+
Cadmium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	5.0	ND	
Chromium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.0	11.2	
Cobalt	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	50.0	ND	
Copper	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	25.0	32.7	
Lead	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	3.0	12,9	
Mercury	7470	7470	HGA1	11/23/94	11/29/94	1	ug/L	0.20	NED	-
Molybdenum	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.0	ND ND	
Nickel	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	40.0	ND	
Selenium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	5.0	ND	
Silver	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.0	ND	
Thallium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.0	ND	<u> </u>
Vanadium	3010A	6010A	ICP2	11/23/94	11/23/94	1 +	ug/L	50.0	ND	
Zinc	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	20.0	108	

Anametrix Sample ID: 9411239-06 Client Sample ID: A4A-BKT6 Client Project Number: 35195.624

Matrix: WATER

Date Sampled: 11/22/94

Analyst: 5 C

Supervisor: WA

Analyte	Prep. Method	Analytical Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Reporting Limit	Results	Q
Antimony	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	60.0	ND	+
Arsenic	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.0	ND	
Barium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	100	ND	+
Beryllium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	5.0	ND	
Cadmium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	5.0	ND	+
Chromium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.0	ND	┼─
Cobalt	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	50.0	ND	
Соррег	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	25.0	27.8	
Lead	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	3.0	10.9	_
Mercury	7470	7470	HGA1	11/23/94	11/29/94	1	ug/L	0.20	ND	<u> </u>
Molybdenum	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.0	ND	-
Nickel	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	40.0	ND	┢
Selenium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	5.0	ND	
Silver	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.0	ND	
Thallium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.0	ND	-
Vanadium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	50.0	ND	├
Zinc	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	20.0	73.4	-

Anametrix Sample ID: BN234WB, BN234WC, BN234WA

Anametrix WO #: 9411239 Client Project Number: 35195.624

Matrix: WATER

Analyst: 50 Supervisor: W

Analyte	Prep. Method	Analytical Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Reporting Limit	Results	Q
Antimony	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	60.0	ND	
Arsenic	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.0	ND	
Barium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	100	ND	
Beryllium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	5.0	ND	
Cadmium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	5.0	ND	
Chromium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.0	ND	
Cobalt	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	50.0	ND	:
Copper	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	25.0	ND	
Lead	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	3.0	ND	
Mercury	7470	7470	HGA1	11/23/94	11/29/94	1	ug/L	0.20	ND.	
Molybdenum	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.0	ND	
Nickel	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	40.0	ND:	·
Selenium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	5.0	ND	
Silver	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.0	ND	
Thailium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.0	ND	
Vanadium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	50.0	ND	
Zinc	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	20.0	ND	

Anametrix Sample ID: 9411239-02D Client Sample ID: A4A-BKT2

Client Project Number: 35195.624

Matrix: WATER

Analyst: JC Supervisor: MV

Analyte	Prep. Method	Analyt. Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Sample Conc.	Sample Duplicate Conc.	RPD	Q
Antimony	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	ND	ND	N/A	1
Arsenic	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	ND	ND	N/A	+
Barium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	159	ND	N/A	†
Beryllium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	ND	ND	N/A	+
Cadmium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	ND	ND	N/A	-
Chromium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	ND	ND	N/A	1
Cobalt	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	ND	ND	N/A	╁
Copper	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	35.8	ND	N/A	
Lead	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	16.4	10.0	8.5	+
Mercury	7470	7470	HGA1	11/23/94	11/29/94	1	ug/L	ND	ND	N/A	-
Molybdenum	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	10.4	ND	N/A	†
Nickel	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	ND	ND	N/A	
Selenium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	ND	ND	N/A	\vdash
Silver	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	ND	ND	N/A	-
Thallium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	ND	ND	N/A	
Vanadium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	ND	ND	N/A	 -
Zinc	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	116	123	5.9	

Anametrix. Sample ID: 9411239-01MS,MD

Client Sample ID: A4A-BKT1 Client Proj. Number: 35195.624 Matrix: WATER Analyster Supervisor: W

Analyte	Analyt. Method	Instr. I.D.	Date Prepared	Date Analyzed	Units	Spike Amount	Sample Conc.	Matrix Spike Conc.	% Rec.	Matrix Sp. Dup. Conc.	% Rec.	RPD	Q
Antimony	6010A	ICP2	11/23/94	11/23/94	ug/L	500	0.0	444	88.8	451	90.2	1.6	U
Arsenic	6010A	ICP2	11/23/94	11/23/94	ug/L	100	0.0	93.6	93.6	92.0	92.0	1.7	IJ
Barium	6010A	ICP2	11/23/94	11/23/94	ug/L	2000	0.0	1790	89.5	1760	88.0	1.7	U
Beryllium	6010A	ICP2	11/23/94	11/23/94	ug/L	50.0	0.0	48.7	97.4	47.8	95.6	1.9	U
Cadmium	6010A	ICP2	11/23/94	11/23/94	ug/L	50.0	0.0	51.3	103	50.1	100	2.4	U
Chromium	6010A	ICP2	11/23/94	11/23/94	ug/L	200	0.0	194	97.0	191	95.5	1.6	U
Cobalt	6010A	ICP2	11/23/94	11/23/94	ug/L	500	0.0	473	94.6	464	92.8	1.9	U
Copper	6010A	ICP2	11/23/94	11/23/94	ug/L	250	29.9	258	91.2	263	93.2	1.9	
Lead	6010A	ICP2	11/23/94	11/23/94	ug/L	50.0	7.8	52.8	90.0	52.6	89.6	0.4	
Mercury	7470	HGA1	11/23/94	11/29/94	ug/L	1.0	0.0	1.0	100	1,0	100	0.0	IJ
Molybdenum	6010A	ICP2	11/23/94	11/23/94	ug/L	2000	0.0	1830	91.5	1800	90.0	1.7	U
Nickel	6010A	ICP2	11/23/94	11/23/94	ug/L	500	0.0	483	96.6	473	94.6	2.1	U
Selenium	6010A	ICP2	11/23/94	11/23/94	ug/L	50.0	0.0	48.1	96.2	46.8	93.6	2.7	
Silver	6010A	ICP2	11/23/94	11/23/94	ug/L	50.0	0.0	53.5	107	52.6	105	1.7	U
Thallium	6010A	ICP2	11/23/94	11/23/94	ug/L	100	0.0	92.1	92.1	90.4	90.4	1.9	U
Vanadium	6010A	ICP2	11/23/94	11/23/94	ug/L	500	0.0	469	93.8	461	92.2	1.7	U
Zinc	6010A	ICP2	11/23/94	11/23/94	ug/L	500	125	566	88.2	570	89.0	0.7	

INCHCAPE TESTING SERVICES ANAMETRIX LABORATORIES (408) 432-8192

LABORATORY CONTROL SAMPLE REPORT

Lab. Control Sample ID: LN234WB, LN234WC, LN234WA

Anametrix WO #: 9411239 Client Project Number: 35195.624 Matrix: WATER Analyst: Supervisor: MW

Analyte	Prep. Method	Analytical Method	Instr. ID	Date Prepared	Date Analyzed	Dil. Factor	Units	Spike Amount	LCS Results	% Recovery	Q
Antimony	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	500	495	99.0	-
Arsenic	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	100	94.7	94.7	_
Barium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	2000	1850		
Beryllium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	50.0	51.5	92.5 103	┼
Cadmium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	50.0	52.0	103	-
Chromium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	200	207	104	
Cobalt	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	500	517	103	<u> </u>
Copper	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	250	254	103	<u> </u>
Lead	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	50.0	49.9	99.8	
Mercury	7470	7470	HGA1	11/23/94	11/29/94	1	ug/L	1.0	0.92	92.0	
Molybdenum	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	2000	1990		ļ
Nickel	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	500	517	99.5	
Selenium	3010A	6010A	ICP2	11/23/94	11/23/94		ug/L	50.0	48.7	103	
Silver	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L	50.0		97.4	
Thailium	3010A	6010A	ICP2	11/23/94	11/23/94	1		100	52.0	104	
Vanadium	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L		99.9	99.9	
Zinc	3010A	6010A	ICP2	11/23/94	11/23/94	1	ug/L ug/L	500 500	508 532	102 106	



Project Manager: Date: 11/22/94

SAMPLE RECEIVING CHECKLIST

WORKORDER NUMBER: 9411239 CLIENT PROJECT ID: 34	5195.63) <i>i/</i>	
COOLER			
Shipping slip (airbill, etc.) present?			
If YES, enter carrier name and airbill #:	YES	NO	N/A
Custody Seal on the outside of cooler?	177.0		
Condition: INTACT BROKEN	YES	NO	N/A
Temperature of sample (s) within range?	NT:0	(0)	
List temperature of cooler (s): 10°C	YES	NO	N/A
SAMPLES			
Chain of custody seal present for each container?	YES	NO	
Condition: INTACT BROKEN	163	NO	(N/A)
Samples arrived within holding time?	(YES)	NO	27/4
Samples in proper containers for methods requested?	(YES)	NO	N/A
Condition of containers: INTACT BROKEN	(IES)	, ŅO	
If NO, were samples transferred to proper container?		·	
Were VOA containers received with zero headspace?	(YES)	NO	27/4
If NO, was it noted on the chain of custody?	(IES)	NO	N/A
Were container labels complete? (ID, date, time preservative, etc.)	(YES)	NO	
Were samples preserved with the proper preservative?	(YES)	NO	NT/A
If NO, was the proper preservative added at time of receipt?	(ILS	NO	N/A
pH check of samples required at time of receipt?	(YES)	NO	
If YES, pH checked and recorded by: 744	(ILW)	NO	
Sufficient amount of sample received for methods requested?	√F¢	NO	
If NO, has the client or lab project manager been notified?	روان	NO	
Field blanks received with sample batch? # of Sets:	YES	NO (
Trip blanks received with sample batch? # of Sets:		NO	N/A
CHAIN OF CUSTODY	<u> </u>	NO	N/A
Chain of custody received with samples?	(YES)	NO	·
Has it been filled out completely and in ink?		NO	
Sample ID's on chain of custody agree with container labels?			
Number of containers indicated on chain of custody agree with number received?		NO NO	
Analysis methods clearly specified?		NO NO	
Sampling date and time indicated?	(VES)	NO NO	
Proper signatures of sampler, courier, sample custodian in appropriate place? with time and da	te? (YES)	NO NO	
Turnaround time? REGULAR RUSH			
Any NO response and/or any "BROKEN" that was checked must be detailed in the Corre	ctive Action I	Form.	

Date: 11/22/94



48 or 72 hour (which ever you can do) 39 Turn-around-Time for Poults



Chain of Custody Record

WAHLER LABLES

					Custody Seal #							RUST E&I Cooler #						
Project Number Project Name/Cli 35195.624 American	Project Name/Client				<u> </u>			Analys	analysis Required			Matrix						
35195.624 American National Can Samplers: (Signature) Rihard Bug li			Lab	g e	10	ادا							Sample Type Sample Cont				ontain	
						Ae ta								П	T	Earth .	77	
tem Sample Description No. (Field ID Number) Da	te Time	Grab Cemp		Container Number	82	747							14.0			£ ?	17 5 W	
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end Lab Results To: Walter Howard Remarks: fax a			copy of teoplets to Richard					Che	Check Delivery Method:				Laboratory Receiving Notes:					
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