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QC DATA ASSOCIATION SUMMARY

G9D300227

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 7470A		9137270	9137104
	WATER	SW846 6010B		9125322	9125136
002	WATER	SW846 7470A		9137270	9137104
	WATER	SW846 6010B		9125322	9125136
004	WATER	SW846 7470A		9137270	9137104
	WATER	SW846 6010B		9125322	9125136

Quanterra

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: G9D300227

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
MB Lot-Sample #: G9E050000-322 **Prep Batch #...:** 9125322						
Arsenic	ND	0.010	mg/L	SW846 6010B	05/05/99	CVF911
Cadmium	ND	0.0050	mg/L	SW846 6010B	05/05/99	CVF911
Copper	ND	0.025	mg/L	SW846 6010B	05/05/99	CVF911
Lead	ND	0.0050	mg/L	SW846 6010B	05/05/99	CVF911
Thallium	ND	0.010	mg/L	SW846 6010B	05/05/99	CVF911
Zinc	ND	0.020	mg/L	SW846 6010B	05/05/99	CVF911
MB Lot-Sample #: G9E170000-270 **Prep Batch #...:** 9137270						
Mercury	ND	0.00020	mg/L	SW846 7470A	05/16-05/17/99	CVVG01

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra

LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: G9D300227 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: G9E050000-322 **Prep Batch #...:** 9125322							
Lead	0.500	0.500	mg/L	100	SW846 6010B	05/05/99	CVF9110A
Thallium	2.00	2.07	mg/L	103	SW846 6010B	05/05/99	CVF9110C
Zinc	0.500	0.521	mg/L	104	SW846 6010B	05/05/99	CVF9110D
Arsenic	2.00	2.00	mg/L	100	SW846 6010B	05/05/99	CVF91107
Cadmium	0.0500	0.0515	mg/L	103	SW846 6010B	05/05/99	CVF91108
Copper	0.250	0.245	mg/L	98	SW846 6010B	05/05/99	CVF91109
LCS Lot-Sample#: G9E170000-270 **Prep Batch #...:** 9137270							
Mercury	0.00100	0.00102	mg/L	102	SW846 7470A	05/16-05/17/99	CVVG0108

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: G9D300227

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: G9E050000-322	**Prep Batch #...:** 9125322				
Lead	100	(79 - 115)	SW846 6010B	05/05/99	CVF9110A
Thallium	103	(76 - 128)	SW846 6010B	05/05/99	CVF9110C
Zinc	104	(71 - 121)	SW846 6010B	05/05/99	CVF9110D
Arsenic	100	(80 - 118)	SW846 6010B	05/05/99	CVF91107
Cadmium	103	(76 - 118)	SW846 6010B	05/05/99	CVF91108
Copper	98	(87 - 107)	SW846 6010B	05/05/99	CVF91109
LCS Lot-Sample#: G9E170000-270	**Prep Batch #...:** 9137270				
Mercury	102	(76 - 117)	SW846 7470A	05/16-05/17/99	CVVG0108

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: G9D300227
Date Sampled...: 04/27/99 **Date Received..:** 04/28/99 **Matrix.....:** WATER

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDE
MS Lot-Sample #: G9D280241-001 **Prep Batch #...:** 9137270									
Mercury									
	ND	0.001	0.000939	mg/L	81		SW846 7470A	05/16-05/17/99	CV6TI
	ND	0.001	0.000953	mg/L	83	1.5	SW846 7470A	05/16-05/17/99	CV6TI

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: G9D300227
Date Sampled...: 04/29/99 **Date Received..:** 04/30/99 **Matrix.....:** WATER

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
MS Lot-Sample #: G9D300227-001 **Prep Batch #...:** 9125322									
Arsenic									
	ND	2.00	2.04	mg/L	102		SW846 6010B	05/05/99	CV9XQ
	ND	2.00	2.03	mg/L	101	0.43	SW846 6010B	05/05/99	CV9XQ
Cadmium									
	ND	0.050	0.0515	mg/L	103		SW846 6010B	05/05/99	CV9XQ
	ND	0.050	0.0511	mg/L	102	0.89	SW846 6010B	05/05/99	CV9XQ
Copper									
	ND	0.250	0.264	mg/L	101		SW846 6010B	05/05/99	CV9XQ
	ND	0.250	0.266	mg/L	102	0.50	SW846 6010B	05/05/99	CV9XQ
Lead									
	ND	0.500	0.502	mg/L	100		SW846 6010B	05/05/99	CV9XQ
	ND	0.500	0.499	mg/L	99	0.43	SW846 6010B	05/05/99	CV9XQ
Thallium									
	ND	2.00	2.06	mg/L	103		SW846 6010B	05/05/99	CV9XQ
	ND	2.00	2.06	mg/L	103	0.10	SW846 6010B	05/05/99	CV9XQ
Zinc									
	0.042	0.500	0.569	mg/L	105		SW846 6010B	05/05/99	C[illegible]Q1
	0.042	0.500	0.566	mg/L	105	0.50	SW846 6010B	05/05/99	C[illegible]Q1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: G9D300227
Date Sampled...: 04/27/99 **Date Received..:** 04/28/99 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: G9D280241-001 **Prep Batch #...:** 9137270							
Mercury	81	(79 - 119)			SW846 7470A	05/16-05/17/99	CV6TR141
	83	(79 - 119)	1.5	(0-20)	SW846 7470A	05/16-05/17/99	CV6TR142

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: G9D300227
Date Sampled...: 04/29/99 **Date Received..:** 04/30/99
Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: G9D300227-001 **Prep Batch #...:** 9125322							
Arsenic	102	(80 - 118)			SW846 6010B	05/05/99	CV9XQ10C
	101	(80 - 118)	0.43	(0-20)	SW846 6010B	05/05/99	CV9XQ10D
Cadmium	103	(76 - 118)			SW846 6010B	05/05/99	CV9XQ10E
	102	(76 - 118)	0.89	(0-20)	SW846 6010B	05/05/99	CV9XQ10F
Copper	101	(87 - 107)			SW846 6010B	05/05/99	CV9XQ10G
	102	(87 - 107)	0.50	(0-20)	SW846 6010B	05/05/99	CV9XQ10H
Lead	100	(79 - 115)			SW846 6010B	05/05/99	CV9XQ10J
	99	(79 - 115)	0.43	(0-20)	SW846 6010B	05/05/99	CV9XQ10K
Thallium	103	(76 - 128)			SW846 6010B	05/05/99	CV9XQ10L
	103	(76 - 128)	0.10	(0-20)	SW846 6010B	05/05/99	CV9XQ10M
Zinc	105	(71 - 121)			SW846 6010B	05/05/99	CV9XQ10N
	105	(71 - 121)	0.50	(0-20)	SW846 6010B	05/05/99	CV9XQ10P

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Chain of Custody Record

Quanterra

QUA-4124

Client: SCS Engineers	Project Manager: Steve Clements	Date: 4/29/99	Chain Of Custody Number: 41214
Address: 3711 Long Beach Blvd, 9th Floor	Telephone Number (Area Code)/Fax Number: (562) 426-9544 FAX (562) 427-0805	Lab Number	Page 1 of 2
City: Long Beach; State: CA; Zip Code: 90807	Site Contact: 0193171.01		
Project Name: LACDAC	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: Nilo Ligi / SCSU42899			

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers Type	Containers No.	Preservative	Condition on Receipt	8150	8140	8080	Archive	Metals *						
MW1-1	4/29/99	8:10am	water	500ml	Plastic	1	HNO_3						X		*				
MW1-3				1 liter	Glass Amber	1	None		X										
MW1-4						1						X							
MW1-5						1					X								
MW1-6						1				X									
MW1-7						1						X							
MW2-1		9:40am		500ml	Plastic	1	HNO_3						X		*				
MW2-3				1 liter	Glass Amber	1	None		X										
MW2-4						1						X							
MW2-5						1				X									
MW2-6						1					X				*	used broken			
MW2-7						1									*				
MW2-8						1			X										
MW2-9						1						X			*				
MW3-1		11:15am		500ml	Plastic	1	HNO_3						X						
MW3-3						1			X										

Analysis

Special Instructions

* Metals = arsenic, cadmium, copper, lead, mercury, Thallium, zinc

* ink on labels appeared to be unledgeable

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal: ☐ Return To Client ☑ Disposal By Lab ☐ Archive For ____ Months

Turn Around Time Required: ☑ Normal ☐ Rush

QC Level: ☐ I. ☐ II. ☐ III.

Project Specific (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	4/29/99	2:30	1. Received By: [signature]	4-30-99	1200
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with Sample; CANARY - Returned to Client

Chain of Custody Record

Quanterra

QUA-4124

Client: SCS Engineers	Project Manager: Steve Clements	Date: 4/29/99	Chain Of Custody Number: 4121
Address: 3711 Long Beach Blvd. 9th Fl.	Telephone Number (Area Code)/Fax Number	Lab Number	Page 2 of 2
City: Long Beach; State: CA; Zip Code: 90807	Site Contact: 0193171.01		
Project Name: LACDAC	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.: N.I. Ligi / SCS042899			

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers Type	Containers No.	Preservative	Condition on Receipt	8150	8140	8080	Arsenic
MW 3-4	4/29/99	11:13am	water	1 liter	Glass Amber	1	None	good				X
MW 3-5										X		
MW 3-6												X
MW 3-7											X	
Rinsate 1		1:00pm							X			
Rinsate 2												X
Tripblank 1									X			
Tripblank 2												X
								04-30-99				

Special Instructions

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal: ☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Turn Around Time Required: ☑ Normal ☐ Rush

QC Level: ☐ I. ☐ II. ☐ III.

Project Specific (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	4/29/99	2:30	1. Received By: [signature]	4-30-99	1200
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

TRUESDAIL LABORATORIES, INC.
INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES
Established 1
14201 FRANKLIN AVENUE • TUSTIN, CALIFORNIA 9[illegible]-7
PHONE (714) 730-6239 • FAX (71[illegible]-6

REPORT

CLIENT: SCS Engineers
Attn: Steve Clements
3711 Long Beach Blvd., Suite 131
Long Beach, CA 90807

DATE: May 19, 1999

RECEIVED: April 30, 1999

LAB. NO.: 415165-1

SAMPLE: Water MW1-2

INVESTIGATION: Analysis as requested

RESULTS

Parameter	Method	Detection Limit	Concentration	Unit
Turbidity	EPA 180.1	-	0.18	NTU
Chloride	EPA 325.3	2.0	76.0	mg/L
Sulfate	EPA 375.4	20	206	mg/L
Nitrate	EPA 300.0	0.5	9.17	mg/L
Bicarbonate	SM 2320B	5.0	227	mg/L
Carbonate	SM 2320B	5.0	ND	mg/L
Calcium	EPA 6010B	0.67	118	mg/L
Magnesium	EPA 6010B	0.28	23.5	mg/L
Sodium	EPA 6010B	0.28	67.8	mg/L
Potassium	EPA 6010B	0.61	4.84	mg/L
Iron	EPA 6010B	0.08	0.08	mg/L
Manganese	EPA 6010B	0.01	ND	mg/L
Ammonium	EPA 350.3	0.20	ND	mg/L
Flouride	EPA 340.2	0.10	0.48	mg/L

ND: Not detected or below limit of detection.

TRUESDAIL LABORATORIES INCORPORATED
MAY 11, 1992
CALIFORNIA

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Michael T.T. Chuah, Project Manager
Water and Waste Laboratory

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from these laboratories.

TRUESDAIL LABORATORIES, INC.
INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES
Established 19
14201 FRANKLIN AVENUE • TUSTIN, CALIFORNIA 92780-70
PHONE (714) 730-6239 • FAX (714) 730-64

REPORT

CLIENT: SCS Engineers
Attn: Steve Clements
3711 Long Beach Blvd., Suite 131
Long Beach, CA 90807

DATE: May 19, 1999

RECEIVED: April 30, 1999

LAB. NO.: 415165-2

SAMPLE: Water MW2-2

INVESTIGATION: Analysis as requested

RESULTS

Parameter	Method	Detection Limit	Concentration	Unit
Turbidity	EPA 180.1	-	0.21	NTU
Chloride	EPA 325.3	2.0	57.0	mg/L
Sulfate	EPA 375.4	20	124	mg/L
Nitrate	EPA 300.0	0.5	18.4	mg/L
Bicarbonate	SM 2320B	5.0	203	mg/L
Carbonate	SM 2320B	5.0	ND	mg/L
Calcium	EPA 6010B	0.67	78.5	mg/L
Magnesium	EPA 6010B	0.28	19.3	mg/L
Sodium	EPA 6010B	0.28	58.3	mg/L
Potassium	EPA 6010B	0.61	4.64	mg/L
Iron	EPA 6010B	0.08	ND	mg/L
Manganese	EPA 6010B	0.01	ND	mg/L
Ammonium	EPA 350.3	0.20	ND	mg/L
Flouride	EPA 340.2	0.10	0.41	mg/L

ND: Not detected or below limit of detection.

TRUESDAIL LABORATORIES, INC. INCORPORATED MAY 11, 1982 CALIFORNIA

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Michael T.T. Chuah, Project Manager
Water and Waste Laboratory

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TRUESDAIL LABORATORIES, INC.
INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES
Established 19
14201 FRANKLIN AVENUE • TUSTIN, CALIFORNIA 92[illegible]70
PHONE (714) 730-6239 • FAX (714[illegible]54

REPORT

CLIENT: SCS Engineers
Attn: Steve Clements
3711 Long Beach Blvd., Suite 131
Long Beach, CA 90807

DATE: May 19, 1999

RECEIVED: April 30, 1999

LAB. NO.: 415165-3

SAMPLE: Water MW3-2

INVESTIGATION: Analysis as requested

RESULTS

Parameter	Method	Detection Limit	Concentration	Unit
Turbidity	EPA 180.1	-	1.22	NTU
Chloride	EPA 325.3	2.0	67.0	mg/L
Sulfate	EPA 375.4	20	175	mg/L
Nitrate	EPA 300.0	0.5	20.0	mg/L
Bicarbonate	SM 2320B	5.0	216	mg/L
Carbonate	SM 2320B	5.0	ND	mg/L
Calcium	EPA 6010B	0.67	89.2	mg/L
Magnesium	EPA 6010B	0.28	15.9	mg/L
Sodium	EPA 6010B	0.28	44.5	mg/L
Potassium	EPA 6010B	0.61	3.78	mg/L
Iron	EPA 6010B	0.08	0.12	mg/L
Manganese	EPA 6010B	0.01	ND	mg/L
Ammonium	EPA 350.3	0.20	ND	mg/L
Flouride	EPA 340.2	0.10	0.40	mg/L

ND: Not detected or below limit of detection.

TRUESDAIL LABORATORIES, INC. MAY 19, 1999 CALIFORNIA

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Michael T.T. Chuah, Project Manager
Water and Waste Laboratory

This report applies only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from these laboratories.

CHAIN OF CUSTODY RECORD

SCS ENGINEERS Environmental Consultants
3711 Long Beach Boulevard, 9th Floor
Long Beach, California 90807-3315
Phone: (562) 426-9544 Fax: (562) 427-0805

TOTAL NUMBER OF SAMPLES: 3
PAGE 1 OF 1
TURNAROUND TIME REQUIRED: ✓ 5-Day ___ 3-Day ___ Immediate ___ Other
PROJECT MANAGER: Steve Clements
P.O. #:

PROJECT NUMBER: 01931.71.01
PROJECT NAME: LACDAC
PROJECT LOCATION: Rio Rico CA
SAMPLER NAME AND SIGNATURE: Lance Weaver

ID NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE(S)	SPECIAL INSTRUCTIONS/COMMENTS	ANALYSES REQUESTED: General Minerals*		Total Nitrate							LAB USE ON
	MW1-2	water	4/29/99	1 liter plastic	—		X		X							
	MW2-2	↓	↓	↓	↓		X		X							
	MW3-2	↓	↓	↓	↓		X		X							

NOTES:
* General Minerals = Ca^{+2}, Mg^{+2}, Na^{+1}, K^{+}, Cl^{-}, SO_4^{-2}, CO_3^{-2}, HCO_3^{-}, NO_3^{-}, Fe, and Mn

SAMPLE CONDITION UPON RECEIPT:

RELINQUISHED BY:	DATE:	RELINQUISHED BY:	DATE:	RELINQUISHED BY:	DATE:
[illegible]	4/29/99				
COMPANY:	TIME:	COMPANY:	TIME:	COMPANY:	TIME:

Quanterra
880 Riverside Parkway
West Sacramento, California 95605-1500

916 373-5600 Telephone
916 372-1059 Fax
www.quanterra.com

April 27, 2000

QUANTERRA INCORPORATED PROJECT NUMBER: G0C250164
PO/CONTRACT:

Steve Clements
SCS Engineers
3711 Long Beach Boulevard
Ninth Floor
Long Beach, CA 90807-3315

Dear Mr. Clements,

This report contains the analytical results for the samples received under chain of custody by Quanterra Incorporated on 3/25/00. These samples are associated with your LACDAC project.

The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916)374-4427.

Sincerely,

Nilo Ligi
Project Manager

Quanterra

TABLE OF CONTENTS

QUANTERRA INCORPORATED PROJECT NUMBER G0C250164

Case Narrative

Quanterra's Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

Method 8151A, Chlorinated Herbicides
Samples: 13, 15, 22, 24
- Sample Data Sheets
- Method Blank Reports
- Laboratory QC Reports

Method 8081A, Chlorinated Pesticides
Samples: 2, 9, 18
- Sample Data Sheets
- Method Blank Reports
- Laboratory QC Reports

Metals - Various Methods
Samples: 1, 8, 17
- Sample Data Sheets
- Method Blank Reports
- Laboratory QC Reports

Method 8141A, Organophosphorus Pesticide
Performed at Quanterra - North Canton
Samples: 4, 6, 11, 20
- Sample Data Sheets
- Method Blank Reports
- Laboratory QC Reports

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CASE NARRATIVE

QUANTERRA INCORPORATED PROJECT NUMBER G0C250164

General Comments

Sample temperatures were 17 and 18 degrees C. Two blue ice packs per cooler were used.

Received TB for 8151 not listed on COC.

Method 8081A, Chlorinated Pesticides

The LCS and LCSD were evaluated and found to have consistent recoveries for all analytes, however, the historical control limit for dieldrin is higher than that of the other analytes so recoveries fell outside criteria. All associated samples were ND.

There were no other anomalies associated with this project.

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Quanterra - Western Region

Quality Control Definitions

QC Parameter	Definition
QC Batch	A set of up to 20 field samples plus associated laboratory QC samples that are similar in composition (matrix) and that are processed within the same time period with the same reagent and standard lots.
Duplicate Control Sample (DCS)	Consist of a pair of LCSs analyzed within the same QC batch to monitor precision and accuracy independent of sample matrix effects. This QC is performed only if required by client or when insufficient sample is available to perform MS/MSD.
Duplicate Sample (DU)	A second aliquot of an environmental sample, taken from the same sample container when possible, that is processed independently with the first sample aliquot. The results are used to assess the effect of the sample matrix on the precision of the analytical process. The precision estimated using this sample is not necessarily representative of the precision for other samples in the batch.
Laboratory Control Sample (LCS)	A volume of reagent water for aqueous samples or a contaminant-free solid matrix (Ottawa sand) for soil and sediment samples which is spiked with known amounts of representative target analytes and required surrogates. An LCS is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects.
Matrix Spike and Matrix Spike Duplicate (MS/MSD)	A field sample fortified with known quantities of target analytes that are also added to the LCS. Matrix spike duplicate is a second matrix spike sample. MSs/MSDs are carried through the entire analytical process and are used to determine sample matrix effect on accuracy of the measurement system. The accuracy and precision estimated using MS/MSD is only representative of the precision of the sample that was spiked.
Method Blank (MB)	A sample composed of all the reagents (in the same quantities) in reagent water carried through the entire analytical process. The method blank is used to monitor the level of contamination introduced during sample preparation steps.
Surrogate Spike	Organic constituents not expected to be detected in environmental media and are added to every sample and QC at a known concentration. Surrogates are used to determine the efficiency of the sample preparation and the analytical process.

Source: Quanterra® Quality Control Program, Policy QA-003, Rev. 0, 8/19/96.

Quanterra

Sample Summary
G0C250164

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
DA3VJ	1	MW1-1	3/24/00 11:15 AM	3/25/00 08:50 AM
DA3VK	2	MW1-2	3/24/00 11:15 AM	3/25/00 08:50 AM
DA3VM	4	MW1-4	3/24/00 11:15 AM	3/25/00 08:50 AM
DA3VP	6	MW1-6	3/24/00 11:15 AM	3/25/00 08:50 AM
DA3VR	8	MW2-1	3/24/00 11:55 AM	3/25/00 08:50 AM
DA3VT	9	MW2-2	3/24/00 11:55 AM	3/25/00 08:50 AM
DA3VX	11	MW2-4	3/24/00 11:55 AM	3/25/00 08:50 AM
DA3W1	13	MW2-6	3/24/00 11:55 AM	3/25/00 08:50 AM
DA3W4	15	MW2-8	3/24/00 11:55 AM	3/25/00 08:50 AM
DA3W7	17	MW3-1	3/24/00 01:00 PM	3/25/00 08:50 AM
DA3W8	18	MW3-2	3/24/00 01:00 PM	3/25/00 08:50 AM
DA3WA	20	MW3-4	3/24/00 01:00 PM	3/25/00 08:50 AM
DA3WD	22	MW3-6	3/24/00 01:00 PM	3/25/00 08:50 AM
DA3WH	24	TRIP BLANK	3/24/00 01:00 PM	3/25/00 08:50 AM

Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must no be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weigh

Chain of Custody Record

Quanterra

QUA 4124 0797

Client: SCS ENGINEERS	Project Manager: Ken Lister	Date: 3/24/00	Chain of Custody Number: 27349
Address: 3711 Long Beach Blvd 9th Floor	Telephone Number (Area Code)/Fax Number: 562-426-9544 / 562-426-9175	Lab Number	Page 1 of 2
City: Long Beach; State: CA; Zip Code: 90807	Site Contact	Lab Contact	
Project Name: LACDAC	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNOS	HCl	NaOH	ZnAc/NaOH	Analysis: METALS	8081A	8141A	8151A	ARCHIVE
MW1-1	3/24/00	11:15	X			X						X				
MW1-2													X			
MW1-3																X
MW1-4														X		
MW1-5																X
MW1-6														X		
MW1-7																X
MW2-1		1155										X				
MW2-2													X			
MW2-3																X
MW2-4														X		

Special Instructions/ Conditions of Receipt

Metals consist of: arsenic, cadmium copper, lead, thallium zinc.

RECEIVED IN GOOD CONDITION UNDER COC

MAR 25 2000

INI: [illegible]

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☒ Archive For 3 Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☒ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other

QC Requirements (Specify)

1. Relinquished By: [signature]	Date: 3/24/00	Time: 2:45	1. Received By: [signature]	Date: 3-25-00	Time: 1330
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

Chain of Custody Record

Quanterra

QUA 4124 0797

Client: SCS ENGINEERS	Project Manager: Ken Lister	Date: 3/24/00	Chain of Custody Number: 27350
Address: 3711 Long Beach Blvd 9th Floor	Telephone Number (Area Code)/Fax Number: 562-426-9544 / 562-426-9175	Lab Number	Page 2 of 2
City: Long Beach; State: CA; Zip Code: 90807	Site Contact	Lab Contact	
Project Name: LACDAC	Carrier/Waybill Number		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNOS	HCl	NaOH	ZnAc/NaOH	Analysis: Archive	8151A	METALS	8081A	8141A	Special Instructions/ Conditions of Receipt
MW2-5	3/24/00	11:55	X				X						X					Metals Consist of arsenic, cadmium, copper, lead, thallium zinc
MW2-6														X				
MW2-7													X					
MW2-8														X				
MW2-9													X					
MW3-1		1:00													X			
MW3-2																X		
MW3-3													X					
MW3-4																	X	
MW3-5													X					
MW3-6														X				
MW3-7													X					

RECEIVED IN GOOD CONDITION UNDER COC
MAR 25 2000
INI: [illegible]

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☒ Archive For 3 Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☒ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	3/24/00	2:45	1. Received By: [signature]	3-25-00	1330
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments: rec'd TriPBlank @ 1700 [illegible]

Quanterra

Method 8151A, Chlorinated Herbicides

Quanterra

SCS ENGINEERS

Client Sample ID: MW2-6

GC Semivolatiles

Lot-Sample #...: G0C250164-013 **Work Order #...:** DA3W1101 **Matrix.....:** WATER
Date Sampled...: 03/24/00 **Date Received..:** 03/25/00
Prep Date.....: 03/28/00 **Analysis Date..:** 04/26/00
Prep Batch #...: 0088417
Dilution Factor: 1 **Method.....:** SW846 8151A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-D	ND	4.0	ug/L
Dalapon	ND	2.0	ug/L
2,4-DB	ND	4.0	ug/L
Dicamba	ND	2.0	ug/L
Dichlorprop	ND	4.0	ug/L
Dinoseb	ND	0.60	ug/L
MCPA	ND	400	ug/L
MCPP	ND	400	ug/L
2,4,5-TP (Silvex)	ND	1.0	ug/L
2,4,5-T	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	84	(52 - 92)

Quanterra

SCS ENGINEERS

Client Sample ID: MW2-8

GC Semivolatiles

Lot-Sample #...: G0C250164-015 **Work Order #...:** DA3W4101 **Matrix.....:** WATER
Date Sampled...: 03/24/00 **Date Received..:** 03/25/00
Prep Date.....: 03/28/00 **Analysis Date..:** 04/26/00
Prep Batch #...: 0088417
Dilution Factor: 1 **Method.....:** SW846 8151A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-D	ND	4.0	ug/L
Dalapon	ND	2.0	ug/L
2,4-DB	ND	4.0	ug/L
Dicamba	ND	2.0	ug/L
Dichlorprop	ND	4.0	ug/L
Dinoseb	ND	0.60	ug/L
MCPA	ND	400	ug/L
MCPP	ND	400	ug/L
2,4,5-TP (Silvex)	ND	1.0	ug/L
2,4,5-T	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	84	(52 - 92)

Quanterra

SCS ENGINEERS

Client Sample ID: MW3-6

GC Semivolatiles

Lot-Sample #...: G0C250164-022 **Work Order #...:** DA3WD101 **Matrix.....:** WATER
Date Sampled...: 03/24/00 **Date Received..:** 03/25/00
Prep Date.....: 03/28/00 **Analysis Date..:** 04/26/00
Prep Batch #...: 0088417
Dilution Factor: 1 **Method.....:** SW846 8151A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-D	ND	4.0	ug/L
Dalapon	ND	2.0	ug/L
2,4-DB	ND	4.0	ug/L
Dicamba	ND	2.0	ug/L
Dichlorprop	ND	4.0	ug/L
Dinoseb	ND	0.60	ug/L
MCPA	ND	400	ug/L
MCPP	ND	400	ug/L
2,4,5-TP (Silvex)	ND	1.0	ug/L
2,4,5-T	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	86	(52 - 92)

Quanterra

SCS ENGINEERS

Client Sample ID: TRIP BLANK

GC Semivolatiles

Lot-Sample #...: G0C250164-024 **Work Order #...:** DA3WH101 **Matrix.....:** WATER
Date Sampled...: 03/24/00 **Date Received..:** 03/25/00
Prep Date.....: 03/28/00 **Analysis Date..:** 04/26/00
Prep Batch #...: 0088417
Dilution Factor: 1 **Method.....:** SW846 8151A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
2,4-D	ND	4.0	ug/L
Dalapon	ND	2.0	ug/L
2,4-DB	ND	4.0	ug/L
Dicamba	ND	2.0	ug/L
Dichlorprop	ND	4.0	ug/L
Dinoseb	ND	0.60	ug/L
MCPA	ND	400	ug/L
MCPP	ND	400	ug/L
2,4,5-TP (Silvex)	ND	1.0	ug/L
2,4,5-T	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	87	(52 - 92)

Quanterra

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: G0C250164 **Work Order #...:** DA62T101 **Matrix.....:** WATER
MB Lot-Sample #: G0C280000-417

Prep Date.....: 03/28/00
Analysis Date..: 04/26/00 **Prep Batch #...:** 0088417
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4-D	ND	4.0	ug/L	SW846 8151A
Dalapon	ND	2.0	ug/L	SW846 8151A
2,4-DB	ND	4.0	ug/L	SW846 8151A
Dicamba	ND	2.0	ug/L	SW846 8151A
Dichlorprop	ND	4.0	ug/L	SW846 8151A
Dinoseb	ND	0.60	ug/L	SW846 8151A
MCPA	ND	400	ug/L	SW846 8151A
MCPP	ND	400	ug/L	SW846 8151A
2,4,5-TP (Silvex)	ND	1.0	ug/L	SW846 8151A
2,4,5-T	ND	1.0	ug/L	SW846 8151A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	87	(52 - 92)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: G0C250164 **Work Order #...:** DA62T102-LCS **Matrix.....:** WATER
LCS Lot-Sample#: G0C280000-417 DA62T103-LCSD
Prep Date.....: 03/28/00 **Analysis Date..:** 04/26/00
Prep Batch #...: 0088417
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
2,4-D	16.0	12.8	ug/L	80		SW846 8151A
	16.0	12.1	ug/L	75	5.7	SW846 8151A
Dalapon	8.00	6.93	ug/L	87		SW846 8151A
	8.00	6.47	ug/L	81	6.9	SW846 8151A
2,4-DB	16.0	17.5	ug/L	110		SW846 8151A
	16.0	17.6	ug/L	110	0.60	SW846 8151A
2,4,5-TP (Silvex)	4.00	3.17	ug/L	79		SW846 8151A
	4.00	3.08	ug/L	77	2.8	SW846 8151A
2,4,5-T	4.00	3.93	ug/L	98		SW846 8151A
	4.00	3.78	ug/L	94	4.0	SW846 8151A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	91	(52 - 92)
	89	(52 - 92)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: G0C250164 **Work Order #...:** DA62T102-LCS **Matrix.....:** WATER
LCS Lot-Sample#: G0C280000-417 DA62T103-LCSD
Prep Date.....: 03/28/00 **Analysis Date..:** 04/26/00
Prep Batch #...: 0088417
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2,4-D	**80**	**(54 - 104)**			**SW846 8151A**
	75	**(54 - 104)**	**5.7**	**(0-50)**	**SW846 8151A**
Dalapon	**87**	**(50 - 150)**			**SW846 8151A**
	81	**(50 - 150)**	**6.9**	**(0-50)**	**SW846 8151A**
2,4-DB	**110**	**(50 - 150)**			**SW846 8151A**
	110	**(50 - 150)**	**0.60**	**(0-50)**	**SW846 8151A**
2,4,5-TP (Silvex)	**79**	**(58 - 106)**			**SW846 8151A**
	77	**(58 - 106)**	**2.8**	**(0-50)**	**SW846 8151A**
2,4,5-T	**98**	**(58 - 106)**			**SW846 8151A**
	94	**(58 - 106)**	**4.0**	**(0-50)**	**SW846 8151A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
DCAA	91	(52 - 92)
	89	(52 - 92)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra

Method 8081A, Chlorinated Pesticides

Quanterra

SCS ENGINEERS

Client Sample ID: MW1-2

GC Semivolatiles

Lot-Sample #...: G0C250164-002 **Work Order #...:** DA3VK101 **Matrix.....:** WATER
Date Sampled...: 03/24/00 **Date Received..:** 03/25/00
Prep Date.....: 03/28/00 **Analysis Date..:** 04/05/00
Prep Batch #...: 0088366
Dilution Factor: 1 **Method.....:** SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
alpha-BHC	ND	0.050	ug/L
gamma-BHC (Lindane)	ND	0.050	ug/L
Heptachlor	ND	0.050	ug/L
Aldrin	ND	0.050	ug/L
beta-BHC	ND	0.050	ug/L
delta-BHC	ND	0.050	ug/L
Heptachlor epoxide	ND	0.050	ug/L
Endosulfan I	ND	0.050	ug/L
gamma-Chlordane	ND	0.050	ug/L
alpha-Chlordane	ND	0.050	ug/L
4,4'-DDE	ND	0.10	ug/L
Dieldrin	ND	0.10	ug/L
Endrin	ND	0.10	ug/L
4,4'-DDD	ND	0.10	ug/L
Endosulfan II	ND	0.10	ug/L
4,4'-DDT	ND	0.10	ug/L
Endrin aldehyde	ND	0.10	ug/L
Methoxychlor	ND	0.50	ug/L
Endosulfan sulfate	ND	0.10	ug/L
Endrin ketone	ND	0.10	ug/L
Toxaphene	ND	2.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	47	(10 - 146)
Tetrachloro-m-xylene	71	(43 - 110)

Quanterra

SCS ENGINEERS

Client Sample ID: MW2-2

GC Semivolatiles

Lot-Sample #...: G0C250164-009 **Work Order #...:** DA3VT101 **Matrix.....:** WATER
Date Sampled...: 03/24/00 **Date Received..:** 03/25/00
Prep Date.....: 03/28/00 **Analysis Date..:** 04/05/00
Prep Batch #...: 0088366
Dilution Factor: 1 **Method.....:** SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
alpha-BHC	ND	0.050	ug/L
gamma-BHC (Lindane)	ND	0.050	ug/L
Heptachlor	ND	0.050	ug/L
Aldrin	ND	0.050	ug/L
beta-BHC	ND	0.050	ug/L
delta-BHC	ND	0.050	ug/L
Heptachlor epoxide	ND	0.050	ug/L
Endosulfan I	ND	0.050	ug/L
gamma-Chlordane	ND	0.050	ug/L
alpha-Chlordane	ND	0.050	ug/L
4,4'-DDE	ND	0.10	ug/L
Dieldrin	ND	0.10	ug/L
Endrin	ND	0.10	ug/L
4,4'-DDD	ND	0.10	ug/L
Endosulfan II	ND	0.10	ug/L
4,4'-DDT	ND	0.10	ug/L
Endrin aldehyde	ND	0.10	ug/L
Methoxychlor	ND	0.50	ug/L
Endosulfan sulfate	ND	0.10	ug/L
Endrin ketone	ND	0.10	ug/L
Toxaphene	ND	2.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	50	(10 - 146)
Tetrachloro-m-xylene	74	(43 - 110)

Quanterra

SCS ENGINEERS

Client Sample ID: MW3-2

GC Semivolatiles

Lot-Sample #...: G0C250164-018 **Work Order #...:** DA3W8101 **Matrix.....:** WATER
Date Sampled...: 03/24/00 **Date Received..:** 03/25/00
Prep Date.....: 03/28/00 **Analysis Date..:** 04/05/00
Prep Batch #...: 0088366
Dilution Factor: 1 **Method.....:** SW846 8081A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
alpha-BHC	ND	0.050	ug/L
gamma-BHC (Lindane)	ND	0.050	ug/L
Heptachlor	ND	0.050	ug/L
Aldrin	ND	0.050	ug/L
beta-BHC	ND	0.050	ug/L
delta-BHC	ND	0.050	ug/L
Heptachlor epoxide	ND	0.050	ug/L
Endosulfan I	ND	0.050	ug/L
gamma-Chlordane	ND	0.050	ug/L
alpha-Chlordane	ND	0.050	ug/L
4,4'-DDE	ND	0.10	ug/L
Dieldrin	ND	0.10	ug/L
Endrin	ND	0.10	ug/L
4,4'-DDD	ND	0.10	ug/L
Endosulfan II	ND	0.10	ug/L
4,4'-DDT	ND	0.10	ug/L
Endrin aldehyde	ND	0.10	ug/L
Methoxychlor	ND	0.50	ug/L
Endosulfan sulfate	ND	0.10	ug/L
Endrin ketone	ND	0.10	ug/L
Toxaphene	ND	2.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	51	(10 - 146)
Tetrachloro-m-xylene	75	(43 - 110)

Quanterra

QC DATA ASSOCIATION SUMMARY

G0C250164

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
002	WATER	SW846 8081A		0088366	
004	WATER	SW846 8141A		0089205	
006	WATER	SW846 8141A		0089205	
009	WATER	SW846 8081A		0088366	
011	WATER	SW846 8141A		0089205	
013	WATER	SW846 8151A		0088417	
015	WATER	SW846 8151A		0088417	
018	WATER	SW846 8081A		0088366	
020	WATER	SW846 8141A		0089205	
022	WATER	SW846 8151A		0088417	
024	WATER	SW846 8151A		0088417	

Quanterra

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: G0C250164 **Work Order #...:** DA5V9101 **Matrix.....:** WATER
MB Lot-Sample #: G0C280000-366

Prep Date.....: 03/28/00
Analysis Date..: 04/05/00 **Prep Batch #...:** 0088366
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
alpha-BHC	ND	0.050	ug/L	SW846 8081A
gamma-BHC (Lindane)	ND	0.050	ug/L	SW846 8081A
Heptachlor	ND	0.050	ug/L	SW846 8081A
Aldrin	ND	0.050	ug/L	SW846 8081A
beta-BHC	ND	0.050	ug/L	SW846 8081A
delta-BHC	ND	0.050	ug/L	SW846 8081A
Heptachlor epoxide	ND	0.050	ug/L	SW846 8081A
Endosulfan I	ND	0.050	ug/L	SW846 8081A
gamma-Chlordane	ND	0.050	ug/L	SW846 8081A
alpha-Chlordane	ND	0.050	ug/L	SW846 8081A
4,4'-DDE	ND	0.10	ug/L	SW846 8081A
Dieldrin	ND	0.10	ug/L	SW846 8081A
Endrin	ND	0.10	ug/L	SW846 8081A
4,4'-DDD	ND	0.10	ug/L	SW846 8081A
Endosulfan II	ND	0.10	ug/L	SW846 8081A
4,4'-DDT	ND	0.10	ug/L	SW846 8081A
Endrin aldehyde	ND	0.10	ug/L	SW846 8081A
Methoxychlor	ND	0.50	ug/L	SW846 8081A
Endosulfan sulfate	ND	0.10	ug/L	SW846 8081A
Endrin ketone	ND	0.10	ug/L	SW846 8081A
Toxaphene	ND	2.0	ug/L	SW846 8081A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	90	(10 - 146)
Tetrachloro-m-xylene	75	(43 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: G0C250164 **Work Order #...:** DA5V9102-LCS **Matrix.....:** WATER
LCS Lot-Sample#: G0C280000-366 DA5V9103-LCSD
Prep Date.....: 03/28/00 **Analysis Date..:** 04/05/00
Prep Batch #...: 0088366
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
gamma-BHC (Lindane)	**0.500**	**0.307**	**ug/L**	**61**		**SW846 8081A**
	0.500	**0.302**	**ug/L**	**60**	**1.5**	**SW846 8081A**
Heptachlor	**0.500**	**0.339**	**ug/L**	**68**		**SW846 8081A**
	0.500	**0.334**	**ug/L**	**67**	**1.4**	**SW846 8081A**
Aldrin	**0.500**	**0.356**	**ug/L**	**71**		**SW846 8081A**
	0.500	**0.349**	**ug/L**	**70**	**2.0**	**SW846 8081A**
Dieldrin	**1.00**	**0.754 a**	**ug/L**	**75**		**SW846 8081A**
	1.00	**0.750 a**	**ug/L**	**75**	**0.50**	**SW846 8081A**
Endrin	**1.00**	**0.783**	**ug/L**	**78**		**SW846 8081A**
	1.00	**0.782**	**ug/L**	**78**	**0.14**	**SW846 8081A**
4,4'-DDT	**1.00**	**0.727**	**ug/L**	**73**		**SW846 8081A**
	1.00	**0.719**	**ug/L**	**72**	**1.1**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	87	(10 - 146)
	85	(10 - 146)
Tetrachloro-m-xylene	68	(43 - 110)
	68	(43 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

Quanterra

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: G0C250164 **Work Order #...:** DA5V9102-LCS **Matrix.....:** WATER
LCS Lot-Sample#: G0C280000-366 DA5V9103-LCSD
Prep Date.....: 03/28/00 **Analysis Date..:** 04/05/00
Prep Batch #...: 0088366
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
gamma-BHC (Lindane)	**61**	**(33 - 99)**			**SW846 8081A**
	60	**(33 - 99)**	**1.5**	**(0-35)**	**SW846 8081A**
Heptachlor	**68**	**(60 - 101)**			**SW846 8081A**
	67	**(60 - 101)**	**1.4**	**(0-35)**	**SW846 8081A**
Aldrin	**71**	**(55 - 108)**			**SW846 8081A**
	70	**(55 - 108)**	**2.0**	**(0-35)**	**SW846 8081A**
Dieldrin	**75 a**	**(83 - 121)**			**SW846 8081A**
	75 a	**(83 - 121)**	**0.50**	**(0-35)**	**SW846 8081A**
Endrin	**78**	**(76 - 135)**			**SW846 8081A**
	78	**(76 - 135)**	**0.14**	**(0-35)**	**SW846 8081A**
4,4'-DDT	**73**	**(65 - 110)**			**SW846 8081A**
	72	**(65 - 110)**	**1.1**	**(0-35)**	**SW846 8081A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Decachlorobiphenyl	87	(10 - 146)
	85	(10 - 146)
Tetrachloro-m-xylene	68	(43 - 110)
	68	(43 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

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Metals - Various Methods

Quanterra

SCS ENGINEERS

Client Sample ID: MW1-1

DISSOLVED Metals

Lot-Sample #...: G0C250164-001
Date Sampled...: 03/24/00 **Date Received..:** 03/25/00 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
Prep Batch #...: 0091350						
Arsenic	**0.012**	**0.010**	**mg/L**	**SW846 6010B**	**03/31-04/03/00**	**DA3VJ1**
Cadmium	ND	0.0050	mg/L	SW846 6010B	03/31-04/03/00	DA3VJ1
Copper	ND	0.025	mg/L	SW846 6010B	03/31-04/03/00	DA3VJ1
Lead	**0.0056**	**0.0050**	**mg/L**	**SW846 6010B**	**03/31-04/03/00**	**DA3VJ1**
Thallium	ND	0.010	mg/L	SW846 6010B	03/31-04/03/00	DA3VJ1
Zinc	**0.034**	**0.020**	**mg/L**	**SW846 6010B**	**03/31-04/03/00**	**DA3VJ1**

Quanterra

SCS ENGINEERS

Client Sample ID: MW2-1

DISSOLVED Metals

Lot-Sample #...: G0C250164-008 **Matrix.....:** WATER
Date Sampled...: 03/24/00 **Date Received..:** 03/25/00

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
Prep Batch #...: 0091350						
Arsenic	**0.043**	**0.010**	**mg/L**	**SW846 6010B**	**03/31-04/03/00**	**DA3VR1**
Cadmium	ND	0.0050	mg/L	SW846 6010B	03/31-04/03/00	DA3VR1
Copper	**0.093**	**0.025**	**mg/L**	**SW846 6010B**	**03/31-04/03/00**	**DA3VR1**
Lead	**0.039**	**0.0050**	**mg/L**	**SW846 6010B**	**03/31-04/03/00**	**DA3VR1**
Thallium	ND	0.010	mg/L	SW846 6010B	03/31-04/03/00	DA3VR1
Zinc	**0.18**	**0.020**	**mg/L**	**SW846 6010B**	**03/31-04/03/00**	**DA3VR1**

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SCS ENGINEERS

Client Sample ID: MW3-1

DISSOLVED Metals

Lot-Sample #...: G0C250164-017
Date Sampled...: 03/24/00 **Date Received..:** 03/25/00 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
Prep Batch #...: 0091350						
Arsenic	**0.028**	**0.010**	**mg/L**	**SW846 6010B**	**03/31-04/03/00**	**DA3W71**
Cadmium	ND	0.0050	mg/L	SW846 6010B	03/31-04/03/00	DA3W71
Copper	**0.055**	**0.025**	**mg/L**	**SW846 6010B**	**03/31-04/03/00**	**DA3W71**
Lead	**0.014**	**0.0050**	**mg/L**	**SW846 6010B**	**03/31-04/03/00**	**DA3W71**
Thallium	ND	0.010	mg/L	SW846 6010B	03/31-04/03/00	DA3W71
Zinc	**0.12**	**0.020**	**mg/L**	**SW846 6010B**	**03/31-04/03/00**	**DA3W71**

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QC DATA ASSOCIATION SUMMARY

G0C250164

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 6010B		0091350	0091143
008	WATER	SW846 6010B		0091350	0091143
017	WATER	SW846 6010B		0091350	0091143

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METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: G0C250164

Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
MB Lot-Sample #: G0C310000-350	**Prep Batch #...:** 0091350					
Arsenic	ND	0.010	mg/L	SW846 6010B	03/31-04/03/00	DAC4F
Cadmium	ND	0.0050	mg/L	SW846 6010B	03/31-04/03/00	DAC4F
Copper	ND	0.025	mg/L	SW846 6010B	03/31-04/03/00	DAC4F
Lead	ND	0.0050	mg/L	SW846 6010B	03/31-04/03/00	DAC4F
Thallium	ND	0.010	mg/L	SW846 6010B	03/31-04/03/00	DAC4F
Zinc	ND	0.020	mg/L	SW846 6010B	03/31-04/03/00	DAC4F

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

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LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: G0C250164 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: G0C310000-350 **Prep Batch #...:** 0091350							
Arsenic	2.00	1.96	mg/L	98	SW846 6010B	03/31-04/03/00	DAC4F107
Cadmium	0.0500	0.0492	mg/L	98	SW846 6010B	03/31-04/03/00	DAC4F109
Copper	0.250	0.236	mg/L	94	SW846 6010B	03/31-04/03/00	DAC4F10C
Lead	0.500	0.483	mg/L	97	SW846 6010B	03/31-04/03/00	DAC4F10E
Thallium	2.00	1.99	mg/L	100	SW846 6010B	03/31-04/03/00	DAC4F10G
Zinc	0.500	0.510	mg/L	102	SW846 6010B	03/31-04/03/00	DAC4F10J

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: G0C250164

Matrix.....: WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#:	G0C310000-350	**Prep Batch #...:** 0091350			
Arsenic	98	(80 - 118)	SW846 6010B	03/31-04/03/00	DAC4F107
Cadmium	98	(76 - 118)	SW846 6010B	03/31-04/03/00	DAC4F109
Copper	94	(87 - 107)	SW846 6010B	03/31-04/03/00	DAC4F10C
Lead	97	(79 - 115)	SW846 6010B	03/31-04/03/00	DAC4F10E
Thallium	100	(76 - 128)	SW846 6010B	03/31-04/03/00	DAC4F10G
Zinc	102	(71 - 121)	SW846 6010B	03/31-04/03/00	DAC4F10J

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: G0C250164 **Matrix.....:** WATER
Date Sampled...: 03/24/00 **Date Received..:** 03/25/00

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER
MS Lot-Sample #: G0C250164-001 **Prep Batch #...:** 0091350									
Arsenic									
	0.012	2.00	2.03	mg/L	101		SW846 6010B	03/31-04/03/00	DA3VJ
	0.012	2.00	2.04	mg/L	102	0.77	SW846 6010B	03/31-04/03/00	DA3VJ
Cadmium									
	ND	0.050	0.0496	mg/L	99		SW846 6010B	03/31-04/03/00	DA3VJ
	ND	0.050	0.0500	mg/L	100	0.82	SW846 6010B	03/31-04/03/00	DA3VJ
Copper									
	ND	0.250	0.269	mg/L	101		SW846 6010B	03/31-04/03/00	DA3VJ
	ND	0.250	0.272	mg/L	102	0.88	SW846 6010B	03/31-04/03/00	DA3VJ
Lead									
	0.0056	0.500	0.499	mg/L	99		SW846 6010B	03/31-04/03/00	DA3VJ
	0.0056	0.500	0.499	mg/L	99	0.10	SW846 6010B	03/31-04/03/00	DA3VJ
Thallium									
	ND	2.00	2.04	mg/L	102		SW846 6010B	03/31-04/03/00	DA3VJ
	ND	2.00	2.06	mg/L	103	0.69	SW846 6010B	03/31-04/03/00	DA3VJ
Zinc									
	0.034	0.500	0.557	mg/L	105		SW846 6010B	03/31-04/03/00	DA3VJ
	0.034	0.500	0.560	mg/L	105	0.54	SW846 6010B	03/31-04/03/00	DA3VJ

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

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MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: G0C250164 **Matrix.....:** WATER
Date Sampled...: 03/24/00 **Date Received..:** 03/25/00

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: G0C250164-001 **Prep Batch #...:** 0091350							
Arsenic	101	(80 - 118)			SW846 6010B	03/31-04/03/00	DA3VJ107
	102	(80 - 118)	0.77	(0-20)	SW846 6010B	03/31-04/03/00	DA3VJ108
Cadmium	99	(76 - 118)			SW846 6010B	03/31-04/03/00	DA3VJ109
	100	(76 - 118)	0.82	(0-20)	SW846 6010B	03/31-04/03/00	DA3VJ10A
Copper	101	(87 - 107)			SW846 6010B	03/31-04/03/00	DA3VJ10C
	102	(87 - 107)	0.88	(0-20)	SW846 6010B	03/31-04/03/00	DA3VJ10D
Lead	99	(79 - 115)			SW846 6010B	03/31-04/03/00	DA3VJ10E
	99	(79 - 115)	0.10	(0-20)	SW846 6010B	03/31-04/03/00	DA3VJ10F
Thallium	102	(76 - 128)			SW846 6010B	03/31-04/03/00	DA3VJ10G
	103	(76 - 128)	0.69	(0-20)	SW846 6010B	03/31-04/03/00	DA3VJ10H
Zinc	105	(71 - 121)			SW846 6010B	03/31-04/03/00	DA3VJ10J
	105	(71 - 121)	0.54	(0-20)	SW846 6010B	03/31-04/03/00	DA3VJ10K

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

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Method 8141A, Organophosphorus Pesticide

Quanterra

SCS ENGINEERS

Client Sample ID: MW1-4

GC Semivolatiles

Lot-Sample #...: G0C250164-004
Date Sampled...: 03/24/00
Prep Date.....: 03/29/00
Prep Batch #...: 0089205
Dilution Factor: 1

Work Order #...: DA3VM101
Date Received..: 03/25/00
Analysis Date..: 04/06/00

Matrix.....: WATER

Method.....: SW846 8141A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Bolstar	ND	1.0	ug/L
Chlorpyrifos	ND	1.0	ug/L
Dichlorvos	ND	1.0	ug/L
Disulfoton	ND	1.0	ug/L
Ethoprop	ND	1.0	ug/L
Azinphos-methyl	ND	1.0	ug/L
Coumaphos	ND	1.0	ug/L
Demeton (total)	ND	1.0	ug/L
Diazinon	ND	1.0	ug/L
Fensulfothion	ND	1.0	ug/L
Fenthion	ND	1.0	ug/L
Merphos	ND	1.0	ug/L
Methyl parathion	ND	1.0	ug/L
Mevinphos	ND	1.0	ug/L
Naled	ND	1.0	ug/L
Phorate	ND	1.0	ug/L
Ronnel	ND	1.0	ug/L
Stirophos	ND	1.0	ug/L
Tokuthion	ND	1.0	ug/L
Trichloronate	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Triphenyl phosphate	91	(38 - 146)

Quanterra

SCS ENGINEERS

Client Sample ID: MW1-6

GC Semivolatiles

Lot-Sample #...: G0C250164-006
Date Sampled...: 03/24/00
Prep Date.....: 03/29/00
Prep Batch #...: 0089205
Dilution Factor: 1

Work Order #...: DA3VP101
Date Received..: 03/25/00
Analysis Date..: 04/06/00

Matrix.....: WATER

Method.....: SW846 8141A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Azinphos-methyl	ND	1.0	ug/L
Bolstar	ND	1.0	ug/L
Chlorpyrifos	ND	1.0	ug/L
Coumaphos	ND	1.0	ug/L
Demeton (total)	ND	1.0	ug/L
Diazinon	ND	1.0	ug/L
Dichlorvos	ND	1.0	ug/L
Disulfoton	ND	1.0	ug/L
Ethoprop	ND	1.0	ug/L
Fensulfothion	ND	1.0	ug/L
Fenthion	ND	1.0	ug/L
Merphos	ND	1.0	ug/L
Methyl parathion	ND	1.0	ug/L
Mevinphos	ND	1.0	ug/L
Naled	ND	1.0	ug/L
Phorate	ND	1.0	ug/L
Ronnel	ND	1.0	ug/L
Stirophos	ND	1.0	ug/L
Tokuthion	ND	1.0	ug/L
Trichloronate	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Triphenyl phosphate	96	(38 - 146)

Quanterra

SCS ENGINEERS

Client Sample ID: MW2-4

GC Semivolatiles

Lot-Sample #...: G0C250164-011
Date Sampled...: 03/24/00
Prep Date.....: 03/29/00
Prep Batch #...: 0089205
Dilution Factor: 1

Work Order #...: DA3VX101
Date Received..: 03/25/00
Analysis Date..: 04/06/00

Matrix.....: WATER

Method.....: SW846 8141A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Azinphos-methyl	ND	1.0	ug/L
Bolstar	ND	1.0	ug/L
Chlorpyrifos	ND	1.0	ug/L
Coumaphos	ND	1.0	ug/L
Demeton (total)	ND	1.0	ug/L
Diazinon	ND	1.0	ug/L
Dichlorvos	ND	1.0	ug/L
Disulfoton	ND	1.0	ug/L
Ethoprop	ND	1.0	ug/L
Fensulfothion	ND	1.0	ug/L
Fenthion	ND	1.0	ug/L
Merphos	ND	1.0	ug/L
Methyl parathion	ND	1.0	ug/L
Mevinphos	ND	1.0	ug/L
Naled	ND	1.0	ug/L
Phorate	ND	1.0	ug/L
Ronnel	ND	1.0	ug/L
Stirophos	ND	1.0	ug/L
Tokuthion	ND	1.0	ug/L
Trichloronate	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Triphenyl phosphate	89	(38 - 146)

Quanterra

SCS ENGINEERS

Client Sample ID: MW3-4

GC Semivolatiles

Lot-Sample #...: G0C250164-020 **Work Order #...:** DA3WA101 **Matrix.....:** WATER
Date Sampled...: 03/24/00 **Date Received..:** 03/25/00
Prep Date.....: 03/29/00 **Analysis Date..:** 04/06/00
Prep Batch #...: 0089205
Dilution Factor: 1 **Method.....:** SW846 8141A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Azinphos-methyl	ND	1.0	ug/L
Bolstar	ND	1.0	ug/L
Chlorpyrifos	ND	1.0	ug/L
Coumaphos	ND	1.0	ug/L
Demeton (total)	ND	1.0	ug/L
Diazinon	ND	1.0	ug/L
Dichlorvos	ND	1.0	ug/L
Disulfoton	ND	1.0	ug/L
Ethoprop	ND	1.0	ug/L
Fensulfothion	ND	1.0	ug/L
Fenthion	ND	1.0	ug/L
Merphos	ND	1.0	ug/L
Methyl parathion	ND	1.0	ug/L
Mevinphos	ND	1.0	ug/L
Naled	ND	1.0	ug/L
Phorate	ND	1.0	ug/L
Ronnel	ND	1.0	ug/L
Stirophos	ND	1.0	ug/L
Tokuthion	ND	1.0	ug/L
Trichloronate	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Triphenyl phosphate	89	(38 - 146)

Quanterra

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: G0C250164
MB Lot-Sample #: A0C290000-205
Work Order #...: DA6J7101
Matrix.....: WATER

Prep Date.....: 03/29/00
Prep Batch #...: 0089205

Analysis Date..: 04/07/00
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Azinphos-methyl	ND	1.0	ug/L	SW846 8141A
Bolstar	ND	1.0	ug/L	SW846 8141A
Chlorpyrifos	ND	1.0	ug/L	SW846 8141A
Coumaphos	ND	1.0	ug/L	SW846 8141A
Demeton (total)	ND	1.0	ug/L	SW846 8141A
Diazinon	ND	1.0	ug/L	SW846 8141A
Dichlorvos	ND	1.0	ug/L	SW846 8141A
Disulfoton	ND	1.0	ug/L	SW846 8141A
Ethoprop	ND	1.0	ug/L	SW846 8141A
Fensulfothion	ND	1.0	ug/L	SW846 8141A
Fenthion	ND	1.0	ug/L	SW846 8141A
Merphos	ND	1.0	ug/L	SW846 8141A
Methyl parathion	ND	1.0	ug/L	SW846 8141A
Mevinphos	ND	1.0	ug/L	SW846 8141A
Naled	ND	1.0	ug/L	SW846 8141A
Phorate	ND	1.0	ug/L	SW846 8141A
Ronnel	ND	1.0	ug/L	SW846 8141A
Stirophos	ND	1.0	ug/L	SW846 8141A
Tokuthion	ND	1.0	ug/L	SW846 8141A
Trichloronate	ND	1.0	ug/L	SW846 8141A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Triphenyl phosphate	94	(38 - 146)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quanterra

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: G0C250164
LCS Lot-Sample#: A0C290000-205
Prep Date.....: 03/29/00
Prep Batch #...: 0089205
Dilution Factor: 1

Work Order #...: DA6J7102-LCS
DA6J7103-LCSD
Analysis Date..: 04/07/00

Matrix.....: WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Thionazin	**20.0**	**17.8**	**ug/L**	**89**		**SW846 8141A**
	20.0	**19.0**	**ug/L**	**95**	**6.4**	**SW846 8141A**
Tetraethyldithiopyro-phosphate	**20.0**	**17.0**	**ug/L**	**85**		**SW846 8141A**
	20.0	**17.9**	**ug/L**	**89**	**5.2**	**SW846 8141A**
Parathion	**20.0**	**17.7**	**ug/L**	**88**		**SW846 8141A**
	20.0	**18.4**	**ug/L**	**92**	**4.1**	**SW846 8141A**
Famphur	**20.0**	**15.6**	**ug/L**	**78**		**SW846 8141A**
	20.0	**16.4**	**ug/L**	**82**	**5.1**	**SW846 8141A**
O,O,O-Triethylphosphoro-thioate	**20.0**	**17.8**	**ug/L**	**89**		**SW846 8141A**
	20.0	**18.9**	**ug/L**	**94**	**5.6**	**SW846 8141A**
Dimethoate	**20.0**	**17.6**	**ug/L**	**88**		**SW846 8141A**
	20.0	**18.3**	**ug/L**	**92**	**4.2**	**SW846 8141A**
Phorate	**20.0**	**14.2**	**ug/L**	**71**		**SW846 8141A**
	20.0	**15.3**	**ug/L**	**76**	**7.4**	**SW846 8141A**
Disulfoton	**20.0**	**16.4**	**ug/L**	**82**		**SW846 8141A**
	20.0	**17.5**	**ug/L**	**87**	**6.4**	**SW846 8141A**
Methyl parathion	**20.0**	**16.7**	**ug/L**	**83**		**SW846 8141A**
	20.0	**17.6**	**ug/L**	**88**	**5.4**	**SW846 8141A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Triphenyl phosphate	95	(38 - 146)
	99	(38 - 146)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Quanterra

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: G0C250164 Work Order #...: DA6J7102-LCS Matrix.....: WATER
LCS Lot-Sample#: A0C290000-205 DA6J7103-LCSD
Prep Date.....: 03/29/00 Analysis Date..: 04/07/00
Prep Batch #...: 0089205
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Thionazin	89	(53 - 125)			SW846 8141A
	95	(53 - 125)	6.4	(0-14)	SW846 8141A
Tetraethyldithiopyro-phosphate	85	(53 - 123)			SW846 8141A
	89	(53 - 123)	5.2	(0-30)	SW846 8141A
Parathion	88	(28 - 122)			SW846 8141A
	92	(28 - 122)	4.1	(0-54)	SW846 8141A
Famphur	78	(46 - 133)			SW846 8141A
	82	(46 - 133)	5.1	(0-42)	SW846 8141A
O,O,O-Triethylphosphoro-thioate	89	(42 - 120)			SW846 8141A
	94	(42 - 120)	5.6	(0-24)	SW846 8141A
Dimethoate	88	(32 - 137)			SW846 8141A
	92	(32 - 137)	4.2	(0-34)	SW846 8141A
Phorate	71	(29 - 110)			SW846 8141A
	76	(29 - 110)	7.4	(0-36)	SW846 8141A
Disulfoton	82	(18 - 113)			SW846 8141A
	87	(18 - 113)	6.4	(0-43)	SW846 8141A
Methyl parathion	83	(25 - 117)			SW846 8141A
	88	(25 - 117)	5.4	(0-28)	SW846 8141A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Triphenyl phosphate	95	(38 - 146)
	99	(38 - 146)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

TRUESDAIL LABORATORIES, INC.

INDEPENDENT TESTING, FORENSIC SCIENCE, AND ENVIRONMENTAL ANALYSES

Established 1931

14201 FRANKLIN AVENUE
TUSTIN, CALIFORNIA 92780-7008
(714) 730-6239 · FAX (714) 730-6462
www.truesdail.com

REPORT

CLIENT: SCS Engineers
3711 Long Beach Blvd., Suite 131
Long Beach, CA 90807
Attention: Ken Lister

REPORT DATE: April 19, 2000

RECEIVED: March 24, 2000

LABORATORY NUMBER: 421386-1

SAMPLE I.D.: MW 1
DATE SAMPLED: 3/24/00
Project No.: 01193171.00
Project Name: LACDAC
INVESTIGATION: **As requested**

RESULTS

PARAMETER	EPA METHOD	MILLIGRAMS PER LITER DETECTION LIMIT	CONCENTRATION
Total Alkalinity	SM2320-B	1.00	216
Calcium	200.7	0.07	112
Magnesium	200.7	0.28	23.7
Sodium	200.7	0.28	70.9
Potassium	200.7	0.62	5.64
Sulfate	300.0	4.00	154
Chloride	300.0	2.00	65.4
Iron	200.7	1.00	26.3
Manganese	200.7	0.25	1.24
Electrical Conductivity, umhos/cm	SM2510-B	---	970
Turbidity, NTU	180.1	0.10	1.02
pH, Units	150.1	---	6.87
Total Dissolved Solids	160.1	10.0	672
Nitrate as NO3	300.0	0.20	17.8

ND = Not detected, below detection limit.

Respectfully Submitted,
TRUESDAIL LABORATORIES, INC.

Divina B. Pascual

Divina B. Pascual, Project Manager
Water and Waste Laboratory

This report applied only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from these laboratories.

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REPORT

CLIENT: SCS Engineers
3711 Long Beach Blvd., Suite 131
Long Beach, CA 90807
Attention: Ken Lister

REPORT DATE: April 19, 2000

RECEIVED: March 24, 2000

LABORATORY NUMBER: 421386-2

SAMPLE I.D.: MW 2
DATE SAMPLED: 3/24/00
Project No.: 01193171.00
Project Name: LACDAC
INVESTIGATION: **As requested**

RESULTS

PARAMETER	EPA METHOD	MILLIGRAMS PER LITER DETECTION LIMIT	CONCENTRATION
Total Alkalinity	SM2320-B	1.00	186
Calcium	200.7	0.07	92.3
Magnesium	200.7	0.28	22.2
Sodium	200.7	0.28	52.6
Potassium	200.7	0.62	5.16
Sulfate	300.0	4.00	143
Chloride	300.0	2.00	65.2
Iron	200.7	1.00	86.4
Manganese	200.7	0.25	2.55
Electrical Conductivity, umhos/cm	SM2510-B	---	930
Turbidity, NTU	180.1	0.10	1.58
pH, Units	150.1	---	6.84
Total Dissolved Solids	160.1	10.0	642
Nitrate as NO3	300.0	0.20	23.8

ND = Not detected, below detection limit.

Respectfully Submitted,
TRUESDAIL LABORATORIES, INC.

Divina B. Pascual

Divina B. Pascual, Project Manager
Water and Waste Laboratory

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TUSTIN, CALIFORNIA 92780-
(714) 730-6239 · FAX (714) 730-6462
www.truesdail.com

REPORT

CLIENT: SCS Engineers
3711 Long Beach Blvd., Suite 131
Long Beach, CA 90807
Attention: Ken Lister

REPORT DATE: April 19, 2000

RECEIVED: March 24, 2000

LABORATORY NUMBER: 421386-3

SAMPLE I.D.: MW 3
DATE SAMPLED: 3/24/00
Project No.: 01193171.00
Project Name: LACDAC
INVESTIGATION: **As requested**

RESULTS

PARAMETER	EPA METHOD	MILLIGRAMS PER LITER DETECTION LIMIT	CONCENTRATION
Total Alkalinity	SM2320-B	1.00	228
Calcium	200.7	0.07	123
Magnesium	200.7	0.28	24.2
Sodium	200.7	0.28	95.4
Potassium	200.7	0.62	5.27
Sulfate	300.0	4.00	192
Chloride	300.0	2.00	81.2
Iron	200.7	1.00	74.9
Manganese	200.7	0.25	1.30
Electrical Conductivity, umhos/cm	SM2510-B	---	1277
Turbidity, NTU	180.1	0.10	1.72
pH, Units	150.1	---	7.16
Total Dissolved Solids	160.1	10.0	837
Nitrate as NO3	300.0	0.20	75.5

ND = Not detected, below detection limit.

Respectfully Submitted,
TRUESDAIL LABORATORIES, INC.

Divina B. Pascual

Divina B. Pascual, Project Manager
Water and Waste Laboratory

This report applied only to the sample, or samples, investigated and is not necessarily indicative of the quality or condition of apparently identical or similar products. As a mutual protection to clients, the public, and these laboratories, this report is submitted and accepted for the exclusive use of the client to whom it is addressed and upon the condition that it is not to be used, in whole or in part, in any advertising or publicity matter without prior written authorization from these laboratories.

CHAIN OF CUSTODY RECORD

SCS ENGINEERS Environmental Consultants
3711 Long Beach Boulevard, 9th Floor
Long Beach, California 90807-3315
Phone: (562) 426-9544 Fax: (562) 427-0805

TOTAL NUMBER OF SAMPLES:
PAGE 1 OF 2
TURNAROUND TIME REQUIRED: Normal
___5-Day ___3-Day ___Immediate Y Other

PROJECT NUMBER: 01193171.00
PROJECT MANAGER: Ken Lister
PROJECT NAME: LACDAC
P.O. #:
PROJECT LOCATION: Pico Rivera
SAMPLER NAME AND SIGNATURE: Lance Weaver [signature]

I.D. NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE(S)	SPECIAL INSTRUCTIONS/COMMENTS	General Minerals	ALKALINITY	CHLORIDE	TDS	TURBIDITY	pH	SPECIFIC CONDUCTANCE			LAB USE ONLY
	MW1-A	WATER	3/24/00 11:15	1L	-		X									
	MW1-B	"	"	500mL	-			X								
	MW1-C	"	"	"	-				X							
	MW1-D	"	"	"	-					X						
	MW1-E	"	"	"	-						X					
	MW1-F	"	"	"	-							X				
	MW1-G	"	"	"	-								X			
	MW2-A	WATER	3/24/00 11:55	1L	-		X									
	MW2-B	"	"	500 m	-			X								
	MW2-C	"	"	"	-				X							
	MW2-D	"	"	"	-					X						
	MW2-E	"	"	"	-						X					
	MW2-F	"	"	"	-							X				
	MW2-G	"	"	"	-								X			

NOTES: General Minerals include: Sulfate, Nitrate, Calcium, Magnesium, Sodium, Potassium, Iron, Manganese.

SAMPLE CONDITION UPON RECEIPT:

RELINQUISHED BY:	DATE:	RELINQUISHED BY:	DATE:	RELINQUISHED BY:	DATE:
[signature]	3/24/00	Rafael Davila	3-24-00		
COMPANY:	TIME:	COMPANY:	TIME:	COMPANY:	TIME:
SCS ENGINEERS	2:25	TRUESDAIL	3:20		

CHAIN OF CUSTODY RECORD

SCS ENGINEERS Environmental Consultants
3711 Long Beach Boulevard, 9th Floor
Long Beach, California 90807-3315
Phone: (562) 426-9544 Fax: (562) 427-0805

TOTAL NUMBER OF SAMPLES:
PAGE 2 OF 2
TURNAROUND TIME REQUIRED: Normal
___5-Day ___3-Day ___Immediate ✓ Other
PROJECT MANAGER: Ken Lister
P.O. #:

PROJECT NUMBER: 01193171.00
PROJECT NAME: LACOAC
PROJECT LOCATION: Pico Rivera
SAMPLER NAME AND SIGNATURE: Lance Weaver

I.D. NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	DATE/TIME COLLECTED	CONTAINER SIZE/TYPE	SAMPLE PRESERVATIVE(S)	SPECIAL INSTRUCTIONS/COMMENTS	General Minerals	ALKALinity	CHLoride	TDS	pH	Specific Conductance	Turbidity			LAB USE ONLY
	MW3-A	WATER	3/24/00 1:00	1L	NONE		X									
	MW3-B	↓	↓	500 ML	↓			X								
	MW3-C	↓	↓	↓	↓				X							
	MW3-D	↓	↓	↓	↓					X						
	MW3-E	↓	↓	↓	↓						X					
	MW3-F	↓	↓	↓	↓							X				
	MW3-G	↓	↓	↓	↓								X			

NOTES: General Minerals include: Sulfate, Nitrate, Calcium, Magnesium, Sodium, Potassium, Iron, Manganese

SAMPLE CONDITION UPON RECEIPT:

RELINQUISHED BY:	DATE:	RELINQUISHED BY:	DATE:	RELINQUISHED BY:	DATE:
	3/24/00	Rafael Davila	3-[illegible]-00		
COMPANY: SCS ENGINEERS	TIME: 2:28	COMPANY: TRUEDAIL	TIME: 3:[illegible]0	COMPANY:	TIME:

Quanterra
880 Riverside Parkway
West Sacramento, California 95605-1500

916 373-5600 Telephone
916 372-1059 Fax
www.quanterra.com

June 27, 2000

QUANTERRA INCORPORATED PROJECT NUMBER: G0E300171
PO/CONTRACT:

Ken Lister
SCS Engineers
3711 Long Beach Boulevard
Ninth Floor
Long Beach, CA 90807-3315

Dear Mr. Lister,

This report contains the analytical results for the samples received under chain of custody by Quanterra Incorporated on 5/30/00. These samples are associated with your LACDAC project.

The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916)374-4427.

Sincerely,

Nilo Ligi
Project Manager

TABLE OF CONTENTS

QUANTERRA INCORPORATED PROJECT NUMBER G0E300171

Case Narrative

Quanterra's Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

Method 8081A, Chlorinated Pesticides
Samples: 1, 2, 3
- Sample Data Sheets
- Method Blank Reports
- Laboratory QC Reports

Metals - Various Methods
Samples: 1
- Sample Data Sheets
- Method Blank Reports
- Laboratory QC Reports

Method 8141A, Organophosphorus Pesticides
Samples: 1, 2, 3
- Sample Data Sheets
- Method Blank Reports
- Laboratory QC Reports

Method 8151A, Herbicides
Samples: 1, 2, 3
- Sample Data Sheets
- Method Blank Reports
- Laboratory QC Reports