APPENDIX I

LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION: GROUNDWATER SAMPLES

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Quanterra
Environmental Services

March 18, 1997

SCS ENGINEERS
3711 LONG BEACH BLVD, NINTH FLOOR
LONG BEACH, CA 90807
ATTN: MR. STEVE CLEMENTS

LIMS NO.: 124594-0001/0003
DATE SAMPLED: 14-FEB-1997
DATE SAMPLE REC'D: 14-FEB-1997
PROJECT: LACDAC/0193171.01

Enclosed with this letter is the report containing the analytical results for the project specified above.

The Narrative section included in the following attachment provides a detailed description of all events that occurred during sample processing, analysis, and data review as applicable to the samples and analytical methods requested.

Report data sheets contain a list of the requested constituents measured in each test, the analytical results, and the standard reporting limits (RLs). Reporting limits are adjusted to reflect any dilution or dry weight correction, when applicable. Solid and waste matrix samples are reported on an "as received" basis for this report. Also provided in this report are the LIMS Report Key and the terms and abbreviations commonly used in our reports.

Preliminary data for SW8080, SW8260, and metals were provided on March 6, 1997 at 11:10 A.M. Preliminary data for SW8140 and SW8150 were provided on March 13, 1997 at 2:55 P.M. to Steve Clements.

The 8140 & 8150 analysis were performed by Quanterra - West Sacramento.

The report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding the data provided in this report, please call Sabina Sudoko at (714) 258-8610. Release of this report has been authorized by the Lab Director or the designee as demonstrated by the following signature.

Sincerely,

Project Manager

cc: Project File

LIMS REPORT KEY

Section	Description
Cover letter	Signature page, report narrative as applicable.
Sample Description Information	Tabulated cross-reference between the Lab ID and Client ID, including matrix, date and time sampled and the date received for all samples in the project.
Sample Analysis Results Sheets	Lists sample results, test components, reporting limits, dates prepared and analyzed and any data qualifiers. Pages are organized by test.
QC Lot Assignment Report	Cross-reference between lab IDs and applicable QC batches (DCS, LCS, SCS, Blank, MS/SD, DU)
Duplicate Control Sample Report	Percent recovery and RPD results, with acceptance limits, for the laboratory Duplicate Control Samples for each test are tabulated in this report. These are measures of accuracy and precision for each test.
Laboratory Control Sample Report	Percent recovery results for a single Laboratory Control Sample (if applicable) are tabulated in this report, with the applicable acceptance limits for each test.
Matrix Spike/Matrix Spike Duplicate Report	Percent recovery and RPD results for matrix-specific QC samples and acceptance limits, where applicable. This report can be used to assess matrix effects on an analysis.
Single Control Sample Report	A tabulation of the surrogate recoveries for the blank for organic analyses.
Method Blank Report	A summary of the results of the analysis of the method blank for each test.

List of Abbreviations and Terms

DCS	Duplicate Control Sample	MSD	Matrix Spike Duplicate
DU	Sample Duplicate	QC Run	Preparation batch
EB	Equipment Blank	QC Category	LIMS QC Category
FB	Field Blank	QC Lot	DCS batch
FD	Field Duplicate	ND	Not Detected at the reporting limit expressed
IDL	Instrument Detection Limit	QC Matrix	Matrix of the laboratory control sample (s)
LCS	Laboratory Control Sample	RL	Reporting Limit
MB	Method Blank	QC	Quality Control
MDL	Method Detection Limit	SA	Sample
MS	Matrix Spike	SD	See MSD
RPD	Relative Percent Difference	TB	Trip Blank
ppm (parts-per-million)	mg/L or mg/kg	ppb (parts-per-billion)	µg/L or µg/kg
QUAL	Qualifier flag	DIL	Dilution Factor

Refer to the Quanterra Incorporated Quality Assurance Management Plan for detailed explanations of terms summarized above.

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CASE NARRATIVE

LIMS # 124594

I. CONDITION UPON RECEIPT

Cooler was received intact. The temperature of the cooler was 4.5°C.

Sample containers were received intact. Proper preservation of applicable samples (excluding VOA samples) was verified upon receipt and documented on the Sample Control worksheet. Sample container label did agree with the COC as to sample ID, collection date/time, requested tests and/or preservatives.

Samples were received in time to meet the method holding time specifications.

II. ORGANIC ANALYSES (BY METHOD: SW8080, SW8260, SW8140, SW8150)

The SW8140 and SW8150 analyses were performed at the Quanterra - West Sacramento laboratory. There are o reporting anomalies for these methods.

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria with the exception of the following: SW8080 - Matrix spike duplicate recovery was outside the acceptance limits for endrin. However, the acceptable LCS analysis data indicated that the analytical system was operating within control and this condition is most likely due to matrix interference.

SURROGATE RECOVERIES
All surrogate spike recoveries in samples and in QC samples met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

III. METALS (BY METHOD: SW6010A, SW7470)

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

CASE NARRATIVE

LIMS # 124594

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

SAMPLE RESULTS

Quanterra
Environmental Services

SAMPLE DESCRIPTION INFORMATION
for
SCS Engineers

Lab ID	Client ID	Matrix	Sampled Date	Sampled Time	Received Date
124594-0001-SA	MW1	AQUEOUS	14 FEB 97		14 FEB 97
124594-0001-MS	MW1	AQUEOUS	14 FEB 97		14 FEB 97
124594-0001-SD	MW1	AQUEOUS	14 FEB 97		14 FEB 97
124594-0002-SA	MW2	AQUEOUS	14 FEB 97		14 FEB 97
124594-0002-MS	MW2	AQUEOUS	14 FEB 97		14 FEB 97
124594-0002-SD	MW2	AQUEOUS	14 FEB 97		14 FEB 97
124594-0003-SA	MW3	AQUEOUS	14 FEB 97		14 FEB 97

Quanterra Environmental Services

Organochlorine Pesticides and Polychlorinated Biphenyls
Method 8080

Client Name:	SCS Engineers		
Client ID:	MW1		
LAB ID:	124594-0001-SA		
Matrix:	AQUEOUS	Sampled: 14 FEB 97	Received: 14 FEB 97
Authorized:	14 FEB 97	Prepared: 17 FEB 97	Analyzed: 19 FEB 97
Instrument:	GC/ECD-PVB	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
alpha-BHC	ND		0.050	ug/L
beta-BHC	ND		0.050	ug/L
delta-BHC	ND		0.050	ug/L
gamma-BHC (Lindane)	ND		0.050	ug/L
Aldrin	ND		0.050	ug/L
Heptachlor	ND		0.050	ug/L
Heptachlor epoxide	ND		0.050	ug/L
Endosulfan I	ND		0.050	ug/L
Dieldrin	ND		0.10	ug/L
4,4'-DDE	ND		0.10	ug/L
Endrin	ND		0.10	ug/L
Endosulfan II	ND		0.10	ug/L
4,4'-DDD	ND		0.10	ug/L
Endosulfan sulfate	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
alpha-Chlordane	ND		0.050	ug/L
gamma-Chlordane	ND		0.050	ug/L
Toxaphene	ND		5.0	ug/L

Surrogate	Recovery		Acceptable Range
2,4,5,6-Tetrachloro-m-xylene	94	%	60 - 150
Decachlorobiphenyl	89	%	60 - 150

ND = Not Detected

Quanterra Environmental Services

Organochlorine Pesticides and Polychlorinated Biphenyls
Method 8080

Client Name:	SCS Engineers		
Client ID:	MW2		
LAB ID:	124594-0002-SA		
Matrix:	AQUEOUS	Sampled: 14 FEB 97	Received: 14 FEB 97
Authorized:	14 FEB 97	Prepared: 17 FEB 97	Analyzed: 19 FEB 97
Instrument:	GC/ECD-PVB	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
alpha-BHC	ND		0.050	ug/L
beta-BHC	ND		0.050	ug/L
delta-BHC	ND		0.050	ug/L
gamma-BHC (Lindane)	ND		0.050	ug/L
Aldrin	ND		0.050	ug/L
Heptachlor	ND		0.050	ug/L
Heptachlor epoxide	ND		0.050	ug/L
Endosulfan I	ND		0.050	ug/L
Dieldrin	ND		0.10	ug/L
4,4'-DDE	ND		0.10	ug/L
Endrin	ND		0.10	ug/L
Endosulfan II	ND		0.10	ug/L
4,4'-DDD	ND		0.10	ug/L
Endosulfan sulfate	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
alpha-Chlordane	ND		0.050	ug/L
gamma-Chlordane	ND		0.050	ug/L
Toxaphene	ND		5.0	ug/L

Surrogate	Recovery		Acceptable Range
2,4,5,6-Tetrachloro-m-xylene	93	%	60 - 150
Decachlorobiphenyl	94	%	60 - 150

ND = Not Detected

Quanterra Environmental Services

Organochlorine Pesticides and Polychlorinated Biphenyls
Method 8080

Client Name:	SCS Engineers		
Client ID:	MW3		
LAB ID:	124594-0003-SA		
Matrix:	AQUEOUS	Sampled: 14 FEB 97	Received: 14 FEB 97
Authorized:	14 FEB 97	Prepared: 17 FEB 97	Analyzed: 19 FEB 97
Instrument:	GC/ECD-PVB	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
alpha-BHC	ND		0.050	ug/L
beta-BHC	ND		0.050	ug/L
delta-BHC	ND		0.050	ug/L
gamma-BHC (Lindane)	ND		0.050	ug/L
Aldrin	ND		0.050	ug/L
Heptachlor	ND		0.050	ug/L
Heptachlor epoxide	ND		0.050	ug/L
Endosulfan I	ND		0.050	ug/L
Dieldrin	ND		0.10	ug/L
4,4'-DDE	ND		0.10	ug/L
Endrin	ND		0.10	ug/L
Endosulfan II	ND		0.10	ug/L
4,4'-DDD	ND		0.10	ug/L
Endosulfan sulfate	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
alpha-Chlordane	ND		0.050	ug/L
gamma-Chlordane	ND		0.050	ug/L
Toxaphene	ND		5.0	ug/L

Surrogate	Recovery		Acceptable Range
2,4,5,6-Tetrachloro-m-xylene	103	%	60 - 150
Decachlorobiphenyl	98	%	60 - 150

ND = Not Detected

Quanterra Environmental Services

Organophosphate Pesticides
Method 8140

Client Name:	SCS Engineers		
Client ID:	MW1		
LAB ID:	124594-0001-SA		
Matrix:	AQUEOUS	Sampled: 14 FEB 97	Received: 14 FEB 97
Authorized:	14 FEB 97	Prepared: 19 FEB 97	Analyzed: 22 FEB 97
Instrument:	PHOS-PEST	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
Azinphos-methyl (Guthion)	ND		1.0	ug/L
Bolstar	ND		1.0	ug/L
Dursban (Chlorpyrifos)	ND		1.0	ug/L
Coumaphos	ND		1.0	ug/L
Demeton	ND		1.0	ug/L
Diazinon	ND		1.0	ug/L
Dichlorvos	ND		2.0	ug/L
Disyston (Disulfoton)	ND		1.0	ug/L
Ethoprop	ND		1.0	ug/L
Fensulfothion	ND		1.0	ug/L
Baytex (Fenthion)	ND		1.0	ug/L
Merphos	ND		1.0	ug/L
Phosdrin (Mevinphos)	ND		1.0	ug/L
Naled	ND		2.0	ug/L
Methyl parathion	ND		1.0	ug/L
Phorate (Thimet)	ND		1.0	ug/L
Ronnel	ND		1.0	ug/L
Tetrachlorvinphos	ND		1.0	ug/L
Tokuthion (Prothiophos)	ND		1.0	ug/L
Trichloronate	ND		1.0	ug/L

Surrogate	Recovery		Acceptable Range
Ethion	96	%	67 - 117

ND = Not Detected

Quanterra Environmental Services

Organophosphate Pesticides
Method 8140

Client Name:	SCS Engineers		
Client ID:	MW2		
LAB ID:	124594-0002-SA		
Matrix:	AQUEOUS	Sampled: 14 FEB 97	Received: 14 FEB 97
Authorized:	14 FEB 97	Prepared: 19 FEB 97	Analyzed: 22 FEB 97
Instrument:	PHOS-PEST	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
Azinphos-methyl (Guthion)	ND		1.0	ug/L
Bolstar	ND		1.0	ug/L
Dursban (Chlorpyrifos)	ND		1.0	ug/L
Coumaphos	ND		1.0	ug/L
Demeton	ND		1.0	ug/L
Diazinon	ND		1.0	ug/L
Dichlorvos	ND		2.0	ug/L
Disyston (Disulfoton)	ND		1.0	ug/L
Ethoprop	ND		1.0	ug/L
Fensulfothion	ND		1.0	ug/L
Baytex (Fenthion)	ND		1.0	ug/L
Merphos	ND		1.0	ug/L
Phosdrin (Mevinphos)	ND		1.0	ug/L
Naled	ND		2.0	ug/L
Methyl parathion	ND		1.0	ug/L
Phorate (Thimet)	ND		1.0	ug/L
Ronnel	ND		1.0	ug/L
Tetrachlorvinphos	ND		1.0	ug/L
Tokuthion (Prothiophos)	ND		1.0	ug/L
Trichloronate	ND		1.0	ug/L

Surrogate	Recovery		Acceptable Range
Ethion	96	%	67 - 117

ND = Not Detected

Quanterra
Environmental Services

Organophosphate Pesticides
Method 8140

Client Name:	SCS Engineers		
Client ID:	MW3		
LAB ID:	124594-0003-SA		
Matrix:	AQUEOUS	Sampled: 14 FEB 97	Received: 14 FEB 97
Authorized:	14 FEB 97	Prepared: 19 FEB 97	Analyzed: 22 FEB 97
Instrument:	PHOS-PEST	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
Azinphos-methyl (Guthion)	ND		1.0	ug/L
Bolstar	ND		1.0	ug/L
Dursban (Chlorpyrifos)	ND		1.0	ug/L
Coumaphos	ND		1.0	ug/L
Demeton	ND		1.0	ug/L
Diazinon	ND		1.0	ug/L
Dichlorvos	ND		2.0	ug/L
Disyston (Disulfoton)	ND		1.0	ug/L
Ethoprop	ND		1.0	ug/L
Fensulfothion	ND		1.0	ug/L
Baytex (Fenthion)	ND		1.0	ug/L
Merphos	ND		1.0	ug/L
Phosdrin (Mevinphos)	ND		1.0	ug/L
Naled	ND		2.0	ug/L
Methyl parathion	ND		1.0	ug/L
Phorate (Thimet)	ND		1.0	ug/L
Ronnel	ND		1.0	ug/L
Tetrachlorvinphos	ND		1.0	ug/L
Tokuthion (Prothiophos)	ND		1.0	ug/L
Trichloronate	ND		1.0	ug/L

Surrogate	Recovery		Acceptable Range
Ethion	97	%	67 - 117

ND = Not Detected

Quanterra
Environmental Services

Chlorinated Herbicides
Method 8150

Client Name:	SCS Engineers		
Client ID:	MW1		
LAB ID:	124594-0001-SA		
Matrix:	AQUEOUS	Sampled: 14 FEB 97	Received: 14 FEB 97
Authorized:	14 FEB 97	Prepared: 21 FEB 97	Analyzed: 25 FEB 97
Instrument:	ACID	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
2,4-D	ND		0.25	ug/L
2,4-DB	ND		1.0	ug/L
2,4,5-TP (Silvex)	ND		0.050	ug/L
2,4,5-T	ND		0.050	ug/L
MCPA	ND		50	ug/L
MCPP	ND		50	ug/L
Dinoseb	ND		0.25	ug/L
Dalapon	ND		5.0	ug/L
Dichlorprop	ND		0.25	ug/L
Dicamba	0.51		0.10	ug/L

Surrogate	Recovery		Acceptable Range
2,4-DCAA	60	%	26 - 132

ND = Not Detected

Quanterra
Environmental Services

Chlorinated Herbicides
Method 8150

Client Name:	SCS Engineers		
Client ID:	MW2		
LAB ID:	124594-0002-SA		
Matrix:	AQUEOUS	Sampled: 14 FEB 97	Received: 14 FEB 97
Authorized:	14 FEB 97	Prepared: 21 FEB 97	Analyzed: 25 FEB 97
Instrument:	ACID	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
2,4-D	ND		0.25	ug/L
2,4-DB	ND		1.0	ug/L
2,4,5-TP (Silvex)	ND		0.050	ug/L
2,4,5-T	ND		0.050	ug/L
MCPA	ND		50	ug/L
MCPP	ND		50	ug/L
Dinoseb	1.9	R	1.2	ug/L
Dalapon	ND		5.0	ug/L
Dichlorprop	ND		0.25	ug/L
Dicamba	ND		0.10	ug/L

Surrogate	Recovery		Acceptable Range
2,4-DCAA	64	%	26 - 132

R = Reporting limit elevated due to sample volume limitations.
ND = Not Detected

Quanterra Environmental Services

Chlorinated Herbicides
Method 8150

Client Name:	SCS Engineers		
Client ID:	MW3		
LAB ID:	124594-0003-SA		
Matrix:	AQUEOUS	Sampled: 14 FEB 97	Received: 14 FEB 97
Authorized:	14 FEB 97	Prepared: 21 FEB 97	Analyzed: 25 FEB 97
Instrument:	ACID	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
2,4-D	ND		0.25	ug/L
2,4-DB	ND		1.0	ug/L
2,4,5-TP (Silvex)	ND		0.050	ug/L
2,4,5-T	ND		0.050	ug/L
MCPA	ND		50	ug/L
MCPP	ND		50	ug/L
Dinoseb	ND		0.25	ug/L
Dalapon	ND		5.0	ug/L
Dichlorprop	ND		0.25	ug/L
Dicamba	ND		0.10	ug/L

Surrogate	Recovery		Acceptable Range
2,4-DCAA	59	%	26 - 132

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name:	SCS Engineers		
Client ID:	MW1		
LAB ID:	124594-0001-SA		
Matrix:	AQUEOUS	Sampled: 14 FEB 97	Received: 14 FEB 97
Authorized:	14 FEB 97	Prepared: 18 FEB 97	Analyzed: 18 FEB 97
Instrument:	GC/MS-MF	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
Chloromethane	ND		10	ug/L
Bromomethane	ND		10	ug/L
Vinyl chloride	ND		10	ug/L
Chloroethane	ND		10	ug/L
Methylene chloride	ND		5.0	ug/L
Acetone	ND		10	ug/L
Carbon disulfide	ND		5.0	ug/L
Trichlorofluoromethane	ND		5.0	ug/L
1,1-Dichloroethene	ND		5.0	ug/L
1,1-Dichloroethane	ND		5.0	ug/L
1,2-Dichloroethene (cis/trans)	ND		5.0	ug/L
Chloroform	ND		5.0	ug/L
1,2-Dichloroethane	ND		5.0	ug/L
2-Butanone	13		10	ug/L
1,1,1-Trichloroethane	ND		5.0	ug/L
Carbon tetrachloride	ND		5.0	ug/L
Vinyl acetate	ND		10	ug/L
Bromodichloromethane	ND		5.0	ug/L
1,2-Dichloropropane	ND		5.0	ug/L
cis-1,3-Dichloropropene	ND		5.0	ug/L
Trichloroethene	ND		5.0	ug/L
Dibromochloromethane	ND		5.0	ug/L
1,1,2-Trichloroethane	ND		5.0	ug/L
Benzene	ND		5.0	ug/L
trans-1,3-Dichloropropene	ND		5.0	ug/L
2-Chloroethyl vinyl ether	ND		10	ug/L
Bromoform	ND		5.0	ug/L
4-Methyl-2-pentanone	ND		10	ug/L
2-Hexanone	ND		10	ug/L
Tetrachloroethene	ND		5.0	ug/L
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L
Toluene	ND		5.0	ug/L
Chlorobenzene	ND		5.0	ug/L
Ethylbenzene	ND		5.0	ug/L
Styrene	ND		5.0	ug/L
Xylenes (total)	ND		5.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	89	%	80 - 120
Toluene-d8	99	%	80 - 120
Bromofluorobenzene	97	%	80 - 120

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name:	SCS Engineers		
Client ID:	MW2		
LAB ID:	124594-0002-SA		
Matrix:	AQUEOUS	Sampled: 14 FEB 97	Received: 14 FEB 97
Authorized:	14 FEB 97	Prepared: 18 FEB 97	Analyzed: 18 FEB 97
Instrument:	GC/MS-MF	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
Chloromethane	ND		10	ug/L
Bromomethane	ND		10	ug/L
Vinyl chloride	ND		10	ug/L
Chloroethane	ND		10	ug/L
Methylene chloride	ND		5.0	ug/L
Acetone	ND		10	ug/L
Carbon disulfide	ND		5.0	ug/L
Trichlorofluoromethane	ND		5.0	ug/L
1,1-Dichloroethene	ND		5.0	ug/L
1,1-Dichloroethane	ND		5.0	ug/L
1,2-Dichloroethene (cis/trans)	ND		5.0	ug/L
Chloroform	ND		5.0	ug/L
1,2-Dichloroethane	ND		5.0	ug/L
2-Butanone	ND		10	ug/L
1,1,1-Trichloroethane	ND		5.0	ug/L
Carbon tetrachloride	ND		5.0	ug/L
Vinyl acetate	ND		10	ug/L
Bromodichloromethane	ND		5.0	ug/L
1,2-Dichloropropane	ND		5.0	ug/L
cis-1,3-Dichloropropene	ND		5.0	ug/L
Trichloroethene	ND		5.0	ug/L
Dibromochloromethane	ND		5.0	ug/L
1,1,2-Trichloroethane	ND		5.0	ug/L
Benzene	ND		5.0	ug/L
trans-1,3-Dichloropropene	ND		5.0	ug/L
2-Chloroethyl vinyl ether	ND		10	ug/L
Bromoform	ND		5.0	ug/L
4-Methyl-2-pentanone	ND		10	ug/L
2-Hexanone	ND		10	ug/L
Tetrachloroethene	ND		5.0	ug/L
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L
Toluene	ND		5.0	ug/L
Chlorobenzene	ND		5.0	ug/L
Ethylbenzene	ND		5.0	ug/L
Styrene	ND		5.0	ug/L
Xylenes (total)	ND		5.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	94	%	80 - 120
Toluene-d8	102	%	80 - 120
Bromofluorobenzene	100	%	80 - 120

ND = Not Detected

Quanterra
Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: SCS Engineers
Client ID: MW3
LAB ID: 124594-0003-SA
Matrix: AQUEOUS — Sampled: 14 FEB 97 — Received: 14 FEB 97
Authorized: 14 FEB 97 — Prepared: 18 FEB 97 — Analyzed: 18 FEB 97
Instrument: GC/MS-MF — Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Chloromethane	ND		10	ug/L
Bromomethane	ND		10	ug/L
Vinyl chloride	ND		10	ug/L
Chloroethane	ND		10	ug/L
Methylene chloride	ND		5.0	ug/L
Acetone	ND		10	ug/L
Carbon disulfide	ND		5.0	ug/L
Trichlorofluoromethane	ND		5.0	ug/L
1,1-Dichloroethene	ND		5.0	ug/L
1,1-Dichloroethane	ND		5.0	ug/L
1,2-Dichloroethene (cis/trans)	ND		5.0	ug/L
Chloroform	ND		5.0	ug/L
1,2-Dichloroethane	ND		5.0	ug/L
2-Butanone	ND		10	ug/L
1,1,1-Trichloroethane	ND		5.0	ug/L
Carbon tetrachloride	ND		5.0	ug/L
Vinyl acetate	ND		10	ug/L
Bromodichloromethane	ND		5.0	ug/L
1,2-Dichloropropane	ND		5.0	ug/L
cis-1,3-Dichloropropene	ND		5.0	ug/L
Trichloroethene	ND		5.0	ug/L
Dibromochloromethane	ND		5.0	ug/L
1,1,2-Trichloroethane	ND		5.0	ug/L
Benzene	ND		5.0	ug/L
trans-1,3-Dichloropropene	ND		5.0	ug/L
2-Chloroethyl vinyl ether	ND		10	ug/L
Bromoform	ND		5.0	ug/L
4-Methyl-2-pentanone	ND		10	ug/L
2-Hexanone	ND		10	ug/L
Tetrachloroethene	ND		5.0	ug/L
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L
Toluene	ND		5.0	ug/L
Chlorobenzene	ND		5.0	ug/L
Ethylbenzene	ND		5.0	ug/L
Styrene	ND		5.0	ug/L
Xylenes (total)	ND		5.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	90	%	80 - 120
Toluene-d8	100	%	80 - 120
Bromofluorobenzene	97	%	80 - 120

ND = Not Detected

Quanterra
Environmental Services

METALS
(Water - Total)

Client Name: SCS Engineers
Client ID: MW1
LAB ID: 124594-0001-SA
Matrix: AQUEOUS
Authorized: 14 FEB 97

Sampled: 14 FEB 97
Prepared: See Below

Received: 14 FEB 97
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Arsenic	ND		1.0	0.030	mg/L	6010A	26 FEB 97	27 FEB
Cadmium	ND		1.0	0.0050	mg/L	6010A	26 FEB 97	27 FEB
Copper	ND		1.0	0.025	mg/L	6010A	26 FEB 97	27 FEB
Lead	ND		1.0	0.10	mg/L	6010A	26 FEB 97	27 FEB
Mercury	ND		1.0	0.00020	mg/L	SW7470	21 FEB 97	21 FEB
Thallium	ND		1.0	2.0	mg/L	6010A	26 FEB 97	27 FEB
Zinc	ND		1.0	0.020	mg/L	6010A	26 FEB 97	27 FEB

ND = Not Detected

Quanterra
Environmental Services

METALS
(Water - Total)

Client Name: SCS Engineers
Client ID: MW2
LAB ID: 124594-0002-SA
Matrix: AQUEOUS
Authorized: 14 FEB 97

Sampled: 14 FEB 97
Prepared: See Below

Received: 14 FEB 97
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Arsenic	ND		1.0	0.030	mg/L	6010A	26 FEB 97	27 FEB
Cadmium	ND		1.0	0.0050	mg/L	6010A	26 FEB 97	27 FEB
Copper	ND		1.0	0.025	mg/L	6010A	26 FEB 97	27 FEB
Lead	ND		1.0	0.10	mg/L	6010A	26 FEB 97	27 FEB
Mercury	ND		1.0	0.00020	mg/L	SW7470	21 FEB 97	21 FEB
Thallium	ND		1.0	2.0	mg/L	6010A	26 FEB 97	27 FEB
Zinc	ND		1.0	0.020	mg/L	6010A	26 FEB 97	27 FEB

ND = Not Detected

Quanterra
Environmental Services

METALS
(Water - Total)

Client Name: SCS Engineers
Client ID: MW3
LAB ID: 124594-0003-SA
Matrix: AQUEOUS
Authorized: 14 FEB 97

Sampled: 14 FEB 97
Prepared: See Below

Received: 14 FEB 97
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Arsenic	ND		1.0	0.030	mg/L	6010A	26 FEB 97	27 FEB
Cadmium	ND		1.0	0.0050	mg/L	6010A	26 FEB 97	27 FEB
Copper	ND		1.0	0.025	mg/L	6010A	26 FEB 97	27 FEB
Lead	ND		1.0	0.10	mg/L	6010A	26 FEB 97	27 FEB
Mercury	ND		1.0	0.00020	mg/L	SW7470	21 FEB 97	21 FEB
Thallium	ND		1.0	2.0	mg/L	6010A	26 FEB 97	27 FEB
Zinc	ND		1.0	0.020	mg/L	6010A	26 FEB 97	27 FEB

ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Semivolatile Organics by GC

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
124594-0001-SA	AQUEOUS	8080-A		17 FEB 97-AX	17 FEB 97-AA
124594-0002-MS	AQUEOUS	8080-A		17 FEB 97-AX	17 FEB 97-AA
124594-0002-SA	AQUEOUS	8080-A		17 FEB 97-AX	17 FEB 97-AA
124594-0002-SD	AQUEOUS	8080-A		17 FEB 97-AX	17 FEB 97-AA
124594-0003-SA	AQUEOUS	8080-A		17 FEB 97-AX	17 FEB 97-AA

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Semivolatile Organics by GC
Project: 124594

Category: 8080-A Pesticides
Matrix: AQUEOUS
QC Run: 17 FEB 97-AX
Concentration Units: ug/L

Date Analyzed: 18 FEB 97

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
gamma-BHC (Lindane)	1.00	0.967	97	22-140
Heptachlor	1.00	0.967	97	36-119
Aldrin	1.00	0.933	93	40-112
Dieldrin	1.00	1.02	102	51-130
Endrin	1.00	1.14	114	56-122
4,4'-DDT	1.00	0.984	98	40-111

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

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Semivolatile Organics by GC
Project: 124594

Category: 8080-A Pesticides
Matrix: AQUEOUS
Sample: 124594-0002
MS Run: 17 FEB 97-AA
Units: ug/L

Analyte	Sample Result	Concentration MS Result	Concentration MSD Result		Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RP
gamma-BHC (Lindane)	ND	0.928	0.959		1.00	93	96	3.3	10-159	1
Heptachlor	ND	0.930	0.976		1.00	93	98	4.8	10-142	2
Aldrin	ND	0.898	0.939		1.00	90	94	4.5	15-130	4
Dieldrin	ND	0.938	0.991		1.00	94	99	5.5	23-147	5
Endrin	ND	1.25	1.33	n	1.00	125	133	6.2	49-130	5
4,4'-DDT	ND	0.897	0.962		1.00	90	96	7.0	10-125	5

n = Spiked analyte out of matrix spike acceptance limits; refer to lab control sample results.
ND = Not Detected

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

Quanterra
Environmental Services

METHOD BLANK REPORT
Semivolatile Organics by GC
Project: 124594

Test: 8080-A
Matrix: AQUEOUS
QC Run: 17 FEB 97-AX

Method 8080 - TCL Organochlorine Pesticides/PCBs

Date Analyzed: 18 FEB 97

Analyte	Result	Units	Reporting Limit
alpha-BHC	ND	ug/L	0.050
beta-BHC	ND	ug/L	0.050
delta-BHC	ND	ug/L	0.050
gamma-BHC (Lindane)	ND	ug/L	0.050
Aldrin	ND	ug/L	0.050
Heptachlor	ND	ug/L	0.050
Heptachlor epoxide	ND	ug/L	0.050
Endosulfan I	ND	ug/L	0.050
Dieldrin	ND	ug/L	0.10
4,4'-DDE	ND	ug/L	0.10
Endrin	ND	ug/L	0.10
Endosulfan II	ND	ug/L	0.10
4,4'-DDD	ND	ug/L	0.10
Endosulfan sulfate	ND	ug/L	0.10
4,4'-DDT	ND	ug/L	0.10
Endrin aldehyde	ND	ug/L	0.10
Methoxychlor	ND	ug/L	0.50
alpha-Chlordane	ND	ug/L	0.050
gamma-Chlordane	ND	ug/L	0.050
Toxaphene	ND	ug/L	5.0

Surrogate	Recovery	Acceptable Range
2,4,5,6-Tetrachloro-m-xylene	100	60 -150
Decachlorobiphenyl	79	60 -150

ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Subcontracted to Quanterra Lab

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
124594-0001-MS	AQUEOUS	615-A		21 FEB 97-11A	21 FEB 97-11A
124594-0001-MS	AQUEOUS	8140-SW-A		19 FEB 97-11A	19 FEB 97-11A
124594-0001-SA	AQUEOUS	615-A		21 FEB 97-11A	21 FEB 97-11A
124594-0001-SA	AQUEOUS	8140-SW-A		19 FEB 97-11A	19 FEB 97-11A
124594-0001-SD	AQUEOUS	615-A		21 FEB 97-11A	21 FEB 97-11A
124594-0001-SD	AQUEOUS	8140-SW-A		19 FEB 97-11A	19 FEB 97-11A
124594-0002-SA	AQUEOUS	615-A		21 FEB 97-11A	21 FEB 97-11A
124594-0002-SA	AQUEOUS	8140-SW-A		19 FEB 97-11A	19 FEB 97-11A
124594-0003-SA	AQUEOUS	615-A		21 FEB 97-11A	21 FEB 97-11A
124594-0003-SA	AQUEOUS	8140-SW-A		19 FEB 97-11A	19 FEB 97-11A

Quanterra Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Subcontracted to Quanterra Lab
Project: 124594

Category: 615-A Herbicides
Matrix: AQUEOUS
Date Analyzed: 25 FEB 97
QC Run: 21 FEB 97-11A
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
2,4-D	1.00	0.691	69	34-135
2,4,5-TP (Silvex)	0.200	0.166	83	55-120
2,4,5-T	0.200	0.174	87	51-123
Dinoseb	1.00	0.437	44	1-92

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
2,4-DCAA	1.00	0.615	62	26-132

Category: 8140-SW-A Organophosphate Pesticides
Matrix: AQUEOUS
Date Analyzed: 22 FEB 97
QC Run: 19 FEB 97-11A
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Dursban (Chlorpyrifos)	2.5	2.3	93	60-140
Diazinon	2.5	2.2	87	53-115
Phosdrin (Mevinphos)	2.5	2.6	105	60-140
Phorate (Thimet)	2.5	2.2	88	46-107
Tetrachlorvinphos	2.5	2.3	92	60-140

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Ethion	2.50	2.48	99	67-117

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

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Subcontracted to Quanterra Lab
Project: 124594

Category: 615-A Herbicides
Matrix: AQUEOUS
Sample: 124594-0001
MS Run: 21 FEB 97-11A
Units: ug/L

Analyte	Sample Result	MS Result	MSD Result	Concentration Amount Spiked MS	MSD	%Recovery MS	MSD	%RPD	Acceptance Limit Recov.	RP
2,4-D	ND	0.758	0.731	0.947	0.951	80	77	4.1	34-135	36
2,4,5-TP (Silvex)	ND	0.173	0.174	0.189	0.190	91	91	0.0	55-120	36
2,4,5-T	ND	0.173	0.170	0.189	0.190	91	89	2.1	51-123	33
Dinoseb	ND	0.431	0.425	0.947	0.951	45	45	1.8	45-125	40

Surrogates	Sample %Recovery	%Recovery MS	MSD	Acceptance Limi Recovery
2,4-DCAA	60.0	65.0	64.0	26-132

Category: 8140-SW-A Organophosphate Pesticides
Matrix: AQUEOUS
Sample: 124594-0001
MS Run: 19 FEB 97-11A
Units: ug/L

Analyte	Sample Result	MS Result	MSD Result	Concentration Amount Spiked MS	MSD	%Recovery MS	MSD	%RPD	Acceptance Limit Recov.	RPI
Dursban (Chlorpyrifos)	ND	2.1	2.3	2.4	2.4	91	95	4.4	60-140	40
Diazinon	ND	2.1	2.2	2.4	2.4	89	94	5.4	53-115	18
Phosdrin (Mevinphos)	ND	2.5	2.6	2.4	2.4	107	109	1.3	60-140	40
Phorate (Thimet)	ND	2.1	2.2	2.4	2.4	88	92	4.6	46-107	25
Tetrachlorvinphos	ND	2.1	2.2	2.4	2.4	90	95	5.3	60-140	40

Surrogates	Sample %Recovery	%Recovery MS	MSD	Acceptance Limit Recovery
Ethion	96.0	94.0	97.0	67-117

ND = Not Detected

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

Quanterra Environmental Services

METHOD BLANK REPORT
Subcontracted to Quanterra Lab
Project: 124594

Test: 8150-SW-A — Method 8150 - HSL Chlorinated Phenoxyacid Herbicides
Matrix: AQUEOUS
QC Run: 21 FEB 97-11A — Date Analyzed: 25 FEB 97

Analyte	Result	Units	Reporting Limit
2,4-D	ND	ug/L	0.25
2,4-DB	ND	ug/L	1.0
2,4,5-TP (Silvex)	ND	ug/L	0.050
2,4,5-T	ND	ug/L	0.050
MCPA	ND	ug/L	50
MCPP	ND	ug/L	50
Dinoseb	ND	ug/L	0.25
Dalapon	ND	ug/L	5.0
Dichlorprop	ND	ug/L	0.25
Dicamba	ND	ug/L	0.10

Surrogate	Recovery	Acceptable Range
2,4-DCAA	61	26 -132

Test: 8140-SW-A — Method 8140 - Organophosphorus Pesticides
Matrix: AQUEOUS
QC Run: 19 FEB 97-11A — Date Analyzed: 22 FEB 97

Analyte	Result	Units	Reporting Limit
Azinphos-methyl (Guthion)	ND	ug/L	1.0
Bolstar	ND	ug/L	1.0
Dursban (Chlorpyrifos)	ND	ug/L	1.0
Coumaphos	ND	ug/L	1.0
Demeton	ND	ug/L	1.0
Diazinon	ND	ug/L	1.0
Dichlorvos	ND	ug/L	2.0
Disyston (Disulfoton)	ND	ug/L	1.0
Ethoprop	ND	ug/L	1.0
Fensulfothion	ND	ug/L	1.0
Baytex (Fenthion)	ND	ug/L	1.0
Merphos	ND	ug/L	1.0
Phosdrin (Mevinphos)	ND	ug/L	1.0
Naled	ND	ug/L	2.0
Methyl parathion	ND	ug/L	1.0
Phorate (Thimet)	ND	ug/L	1.0
Ronnel	ND	ug/L	1.0
Tetrachlorvinphos	ND	ug/L	1.0
Tokuthion (Prothiophos)	ND	ug/L	1.0
Trichloronate	ND	ug/L	1.0

ND = Not Detected

METHOD BLANK REPORT (cont.)
Subcontracted to Quanterra Lab
Project: 124594

Quanterra Environmental Services

Test: 8140-SW-A Method 8140 - Organophosphorus Pesticides (cont.)
Matrix: AQUEOUS

Surrogate	Recovery	Acceptable Range
Ethion	93	67 -117

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Volatile Organics by GC/MS

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
124594-0001-MS	AQUEOUS	Q8260-A		18 FEB 97-BFX	18 FEB 97-BF
124594-0001-SA	AQUEOUS	Q8260-A		18 FEB 97-BFX	18 FEB 97-BF
124594-0001-SD	AQUEOUS	Q8260-A		18 FEB 97-BFX	18 FEB 97-BF
124594-0002-SA	AQUEOUS	Q8260-A		18 FEB 97-BFX	18 FEB 97-BF
124594-0003-SA	AQUEOUS	Q8260-A		18 FEB 97-BFX	18 FEB 97-BF

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 124594

Category: Q8260-A Method SW8260A - Volatile Organics
Matrix: AQUEOUS Date Analyzed: 18 FEB 97
QC Run: 18 FEB 97-BFX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	50.0	52.2	104	70-120
Trichloroethene	50.0	51.7	103	80-120
Benzene	50.0	52.9	106	80-120
Toluene	50.0	52.7	105	80-120
Chlorobenzene	50.0	51.5	103	80-120

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	50.0	48.0	96	80-120
Bromofluorobenzene	50.0	49.7	99	80-120
Toluene-d8	50.0	51.7	103	80-120

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

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Volatile Organics by GC/MS
Project: 124594

Category: Q8260-A Method SW8260A - Volatile Organics
Matrix: AQUEOUS
Sample: 124594-0001
MS Run: 18 FEB 97-BF
Units: ug/L

Analyte	Sample Result	Concentration MS Result	Concentration MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPD
1,1-Dichloroethene	ND	54.4	53.3	50.0	109	107	2.0	70-120	25
Trichloroethene	ND	57.0	54.6	50.0	114	109	4.3	80-120	25
Benzene	ND	57.7	55.6	50.0	115	111	3.7	80-120	25
Toluene	ND	56.7	55.2	50.0	113	110	2.7	80-120	25
Chlorobenzene	ND	55.8	53.5	50.0	112	107	4.2	80-120	25

Surrogates	Sample %Recovery	%Recovery MS	%Recovery MSD	Acceptance Limi Recovery
1,2-Dichloroethane-d4	89	100	96	80-120
Bromofluorobenzene	97	105	100	80-120
Toluene-d8	99	103	100	80-120

ND = Not Detected

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

Quanterra Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 124594

Test: 8260-SL-A Method 8260 - Volatile Organics
Matrix: AQUEOUS
QC Run: 18 FEB 97-BFX

Date Analyzed: 18 FEB 97

Analyte	Result	Units	Reporting Limit
Chloromethane	ND	ug/L	10
Bromomethane	ND	ug/L	10
Vinyl chloride	ND	ug/L	10
Chloroethane	ND	ug/L	10
Methylene chloride	ND	ug/L	5.0
Acetone	ND	ug/L	10
Carbon disulfide	ND	ug/L	5.0
Trichlorofluoromethane	ND	ug/L	5.0
1,1-Dichloroethene	ND	ug/L	5.0
1,1-Dichloroethane	ND	ug/L	5.0
1,2-Dichloroethene (cis/trans)	ND	ug/L	5.0
Chloroform	ND	ug/L	5.0
1,2-Dichloroethane	ND	ug/L	5.0
2-Butanone	ND	ug/L	10
1,1,1-Trichloroethane	ND	ug/L	5.0
Carbon tetrachloride	ND	ug/L	5.0
Vinyl acetate	ND	ug/L	10
Bromodichloromethane	ND	ug/L	5.0
1,2-Dichloropropane	ND	ug/L	5.0
cis-1,3-Dichloropropene	ND	ug/L	5.0
Trichloroethene	ND	ug/L	5.0
Dibromochloromethane	ND	ug/L	5.0
1,1,2-Trichloroethane	ND	ug/L	5.0
Benzene	ND	ug/L	5.0
trans-1,3-Dichloropropene	ND	ug/L	5.0
2-Chloroethyl vinyl ether	ND	ug/L	10
Bromoform	ND	ug/L	5.0
4-Methyl-2-pentanone	ND	ug/L	10
2-Hexanone	ND	ug/L	10
Tetrachloroethene	ND	ug/L	5.0
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0
Toluene	ND	ug/L	5.0
Chlorobenzene	ND	ug/L	5.0
Ethylbenzene	ND	ug/L	5.0
Styrene	ND	ug/L	5.0
Xylenes (total)	ND	ug/L	5.0

Surrogate	Recovery	Acceptable Range
1,2-Dichloroethane-d4	90	80 -120
Toluene-d8	101	80 -120
Bromofluorobenzene	96	80 -120

ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Metals Analysis and Preparation

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
124594-0001-MS	AQUEOUS	ICP-AT		26 FEB 97-MX	26 FEB 97-MA
124594-0001-MS	AQUEOUS	HG-CVAA-A		21 FEB 97-HX	21 FEB 97-HB
124594-0001-SA	AQUEOUS	ICP-AT		26 FEB 97-MX	26 FEB 97-MA
124594-0001-SA	AQUEOUS	HG-CVAA-A		21 FEB 97-HX	21 FEB 97-HB
124594-0001-SD	AQUEOUS	ICP-AT		26 FEB 97-MX	26 FEB 97-MA
124594-0001-SD	AQUEOUS	HG-CVAA-A		21 FEB 97-HX	21 FEB 97-HB
124594-0002-SA	AQUEOUS	ICP-AT		26 FEB 97-MX	26 FEB 97-MA
124594-0002-SA	AQUEOUS	HG-CVAA-A		21 FEB 97-HX	21 FEB 97-HB
124594-0003-SA	AQUEOUS	ICP-AT		26 FEB 97-MX	26 FEB 97-MA
124594-0003-SA	AQUEOUS	HG-CVAA-A		21 FEB 97-HX	21 FEB 97-HB

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Metals Analysis and Preparation
Project: 124594

Category: ICP-AT ICP Metals
Matrix: AQUEOUS
Date Analyzed: 27 FEB 97
QC Run: 26 FEB 97-MX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Arsenic	2.00	1.94	97	85-115
Cadmium	0.0500	0.0521	104	80-115
Copper	0.250	0.243	97	85-115
Lead	0.500	0.495	99	80-115
Thallium	2.00	1.99	100	85-115
Zinc	0.500	0.533	107	85-115

Category: HG-CVAA-A Mercury by CVAA
Matrix: AQUEOUS
Date Analyzed: 21 FEB 97
QC Run: 21 FEB 97-HX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Mercury	0.00500	0.00510	102	80-120

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

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Metals Analysis and Preparation
Project: 124594

Category: ICP-AT ICP Metals
Matrix: AQUEOUS
Sample: 124594-0001
MS Run: 26 FEB 97-MA
Units: mg/L

Analyte	Sample Result	Concentration MS Result	Concentration MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	RI
Arsenic	ND	1.94	1.96	2.00	97	98	0.7	85-115	:
Cadmium	ND	0.0482	0.0483	0.0500	96	97	0.2	80-115	:
Copper	ND	0.254	0.263	0.250	102	105	3.5	85-115	:
Lead	ND	0.472	0.478	0.500	94	96	1.2	80-115	:
Thallium	ND	1.90	1.91	2.00	95	96	0.6	80-115	:
Zinc	ND	0.510	0.516	0.500	102	103	1.1	85-115	:

Category: HG-CVAA-A Mercury by CVAA
Matrix: AQUEOUS
Sample: 124594-0001
MS Run: 21 FEB 97-HB
Units: mg/L

Analyte	Sample Result	Concentration MS Result	Concentration MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	RI
Mercury	ND	0.00107	0.00107	0.00100	107	107	0.0	80-120	:

ND = Not Detected

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

Quanterra
Environmental Services

METHOD BLANK REPORT
Metals Analysis and Preparation
Project: 124594

Test: ICPT-AT Method 6010A - ICP Metals (Total)
Matrix: AQUEOUS
QC Run: 26 FEB 97-MX Date Analyzed: 27 FEB 97

Analyte	Result	Units	Reporting Limit
Arsenic	ND	mg/L	0.030
Cadmium	ND	mg/L	0.0050
Copper	ND	mg/L	0.025
Lead	ND	mg/L	0.10
Thallium	ND	mg/L	2.0
Zinc	ND	mg/L	0.020

Test: HG-CVAA-AT Method SW7470 - Mercury, Cold Vapor AA (Total)
Matrix: AQUEOUS
QC Run: 21 FEB 97-HX Date Analyzed: 21 FEB 97

Analyte	Result	Units	Reporting Limit
Mercury	ND	mg/L	0.00020

ND = Not Detected

Quinterra

CHAIN OF CUSTODY RECORD REQUEST FOR ANALYSIS

COMPANY NAME: SCS Engineers
ADDRESS: 3711 Long Beach Blvd 7th Fl. Long Beach CA 90807
PHONE NUMBER: (562) 426 9544
FAX: (562) 427-0805

CARRIER:
SHIPMENT DATE:
SHIPPING NUMBER:
NUMBER OF SAMPLES: 32 PAGE 1 OF 2

TURNAROUND TIME REQUIRED:
- [x] NORMAL
- [ ] 5-DAY
- [ ] 3-DAY
- [ ] 24-HOUR
- [ ] IMMEDIATE ATTENTION

PROJECT NAME: LAC DAC
PROJECT ADDRESS: 8841 E Slauson Ave, Pico Rivera, CA
PROJECT NUMBER: 0193 171.01
SAMPLER NAME AND SIGNATURE: Steve Clements
REPORTS TO BE SENT TO: Ken Lister

LAB ONLY: 124594
4.5°C
SAMPLE CONDITION UPON RECEIPT

SAMPLE I.D. NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	SAMPLE PRESERVATIVE(S)	CONTAINER SIZE / TYPE	DATE / TIME COLLECTED	FIELD TEMP.	FIELD pH	FIELD EC	SPECIAL PROGRAM REQUIREMENTS OR EPA - SOP & QAM REF	8080 (no PCB)	8140	8150	LAB QA/QC use	8260	Metals *				
0413 0414	MW1	water	Ø	1 liter Amber	2/14/97				2 containers	X									
0415 0416	MW1	↓	↓	↓	↓				↓		X								
0417 0418	MW1											X							
0419 0420	MW1												X						
0421 0422 0423	MW1		HCl	Normal VOA					3 containers					X					
0424	MW1		HNO_3	Normal Plastic					1 container						X				

SPECIAL INSTRUCTIONS / COMMENTS: * Metals ⇒ As, Cd, Cr, Pb, Hg, Tl, Zn

RELINQUISHED BY: (Signature)	DATE:	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE:	RECEIVED BY: (Signature)
COMPANY: SCS	TIME: 11:50 am	COMPANY: SCS	COMPANY: SCS	TIME: 1130	COMPANY: QFS-S

...terra

CHAIN OF CUSTODY RECORD REQUEST FOR ANALYSIS

COMPANY NAME: SCS Engineers
ADDRESS:
PHONE NUMBER:
FAX:
PROJECT NAME: See Page #1
PROJECT ADDRESS:
PROJECT NUMBER: 01931701
SAMPLER NAME AND SIGNATURE: Steve Clement
REPORTS TO BE SENT TO: Ron Lister

CARRIER:
SHIPMENT DATE:
SHIPPING NUMBER:
NUMBER OF SAMPLES: 32 PAGE 2 OF 2

TURNAROUND TIME REQUIRED:
- [x] NORMAL
- [ ] 5-DAY
- [ ] 3-DAY
- [ ] 24-HOUR
- [ ] IMMEDIATE ATTENTION

LAB ONLY: 124594

4 °C

SAMPLE CONDITION UPON RECEIPT

SAMPLE I.D. NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	SAMPLE PRESERVATIVE(S)	CONTAINER SIZE / TYPE	DATE / TIME COLLECTED	FIELD TEMP.	FIELD pH	FIELD EC	SPECIAL PROGRAM REQUIREMENTS OR EPA - SOP & QAM REF	8080 (N. PCB)	8170	8150	8260	Metals*						
0425 0426	MW 2	water	Ø	1 liter Amber	2/14/97				2 containers	X										
0427 0428	↓	↓	↓	↓	↓				↓		X									
0429 0430												X								
0431 0432 0433	MW 2		HCl	40 ml VOA					3 containers				X							
0434	MW 2		HNO_3	500 ml Plastic					1 container					X						
0435 0436	MW 3	water	Ø	1 liter Amber	2/14/97				2 containers	X										
0437 0438	MW 3										X									
0439 0440	MW 3											X								
0441 0442 0443	MW 3		HCl	40 ml VOA					3 containers				X							
0444	MW 3		HNO_3	500 ml Plastic					1 container					X						

SPECIAL INSTRUCTIONS / COMMENTS:

* Metals ⇒ See page #1

RELINQUISHED BY: (Signature)	DATE:	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE:	RECEIVED BY: (Signature)
COMPANY: SCS	2/14/97	COMPANY: SCS	COMPANY: SCS	2/14/97	COMPANY: QFS-S.A.
	TIME: 11:50 am			TIME: 1230	

TO: QES - W. Sac

Chain of Custody Record

Quanterra Environmental Services

QUA-4124-1

Client: Quanterra	Project Manager: S. Sudoko	Date: 2/14/97	Chain Of Custody Number: 58254
Address: 1721 So Grand Ave	Telephone Number (Area Code)/Fax Number:	Lab Number: 124594	Page 1 of 1
City: Sta Ana; State: CA; Zip Code: 92705	Site Contact:	Lab Contact: NILO L.	
Project Name: SCS / LACDAC	Carrier Waybill Number:		
Contract/Purchase Order ~~Quote No.~~: 124594			

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	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): 8140	8150			(MS/SD)						Special Instructions/ Conditions of Receipt
MW1	2/14/97		X				6						X	X			(MS/SD)						124594-0001
MW2	↓		X				3						X	X									0002
MW3			X				3						X	X									0003

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

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ 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 3/3/97

QC Requirements (Specify):

1. Relinquished By: [signature]	Date: 2/14/97	Time: 1630	1. Received By: [signature]	Date: 021597	Time: 1230
2. Relinquished By:	Date:	Time:	2. Received By:	Date:	Time:
3. Relinquished By:	Date:	Time:	3. Received By:	Date:	Time:

Comments:

REPORT

TRUESDAIL LABORATORIES, INC.

CHEMISTS · MICROBIOLOGISTS · ENGINEERS
RESEARCH · DEVELOPMENT · TESTING
ESTABLISHED 1931

14201 FRANKLIN AVENUE
TUSTIN, CALIF. 92680
(714) 730-6239
FAX (714) 730-6462

LA County Dept. of Agricultural Commissioners
3400 La Madera Ave.
El Monte, CA 91732
Attn: Richard Wightman

Date: March 7, 1997
Recv'd: February 24, 1997
Lab. No: 600050
P.O. No: Verbal

Sample: Three (3) water samples labelled:

MW 1	2/14/97
MW 2	2/14/97
MW 3	2/14/97

Investigation: Analyze for strychnine in water by high performance liquid chromatography (HPLC)-ultra violet (UV) spectroscopic detection; analyze for general minerals by methods designated below.

RESULTS

The results are tabulated on the following page.

Respectfully submitted,
TRUESDAIL LABORATORIES, INC.

Joe Bramblett, Manager
Instrumental Methods

General Minerals

	Milligrams per Liter (ppm)		
	MW-1	MW-2	MW-3
Cations			
Ammonium	ND	ND	ND
Sodium	63.8	67.1	69.7
Potassium	4.4	5	5.47
Calcium	81.5	103	120
Magnesium	18	22.7	24.4
Anions			
Bicarbonate	186.6	247.7	275.7
Carbonate	ND	ND	ND
Chloride	61	61	74.5
Sulfate	156	152	226
Nitrate	17.8	30	13.8
Fluoride	ND	ND	ND
Iron	0.29	10.1	0.13
Manganese	0.01	0.11	0.02
Alkalinity	153	203	226
Hardness	277.6	350.7	400.1
Total Dissolved Solids	510	598	668
pH	7.6	10.1	11.3

ND-Not detected.

The HPLC-UV analysis was adapted from NIOSH Method 5016. The sample was analyzed by direct injection of the sample.

HPLC-UV	Milligrams per Liter (ppm) Strychnine	Detection Limit
MW-1	ND	0.04
MW-2	ND	0.04
MW-3	ND	0.04

ND-Not detected.

Translate

CHAIN OF CUSTODY RECORD REQUEST FOR ANALYSIS

COMPANY NAME: SCS Engineers
STREET: 3711 Long Beach Blvd. 9th Floor
CITY: Long Beach STATE: CA ZIP: 90807
PHONE: (562) 426-9544 FAX: (562) 427-0505
PROJECT NAME: LACDAC
PROJECT ADDRESS:
PROJECT NUMBER: 01931.71.01
SAMPLER NAME AND SIGNATURE: Steve Clemente
CONTACT PERSON REPORTS TO BE SENT TO: Ken Lister

CARRIER:
SHIPMENT DATE:
SHIPPING NUMBER:
NUMBER OF SAMPLES: 12
PAGE 1 OF 2
QUOTE #/P.O. #
TASK NUMBER:

TURNAROUND TIME REQUIRED:
☒ NORMAL
☐ 5-DAY ☐ 3-DAY
☐ 24-HOUR
☐ IMMEDIATE ATTENTION

ANALYSES REQUIRED

SAMPLE I.D. NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	SAMPLE PRESERVATIVE(S)	CONTAINER SIZE/TYPE	DATE/TIME COLLECTED	FIELD TEMP.	FIELD pH	FIELD EC	SPECIAL PROGRAM REQUIREMENTS OR EPA - SOP & QAM REF	Strychnine	TDS & Gen. Min.*	Arch. VC	LAB ONLY: SAMPLE CONDITION UPON RECEIPT
0401	MW1	Water	Ø	40 ml VOA	2/14/97					X			
0402	MW1	↓	↓	↓	↓							X	
0403	MW1			1 liter Amber Glass							X		
0404	MW1			↓								X	
0405	MW2			40 ml VOA						X			
0406	MW2			↓								X	
0407	MW2			1 liter Amber							X		
0408	MW2			↓								X	
0409	MW3			40 ml VOA						X			
0410	MW3	↓	↓	↓	↓							X	

SPECIAL INSTRUCTIONS / COMMENTS: * General Minerals ⇒ Ca^{+2}, Mg^{+2}, Na^{+}, K^{+}, Cl^{-}, SO_4^{-2}, CO_3^{-2}, HCO_3^{-}, NO_3^{-}, Fe, Mn

RELINQUISHED BY: (Signature)	DATE:	RECEIVED BY: (Signature)	DATE:	RELINQUISHED BY: (Signature)	DATE:	RECEIVED BY: (Signature)	DATE:
COMPANY: SCS	TIME: 11:50am	COMPANY:	TIME:	COMPANY:	TIME:	COMPANY: TCI	TIME:

CHAIN OF CUSTODY RECORD REQUEST FOR ANALYSIS

COMPANY NAME: SCS Engineers
STREET:
CITY: STATE: ZIP:
PHONE: ( ) FAX: ( )
PROJECT NAME: See Page #1
PROJECT ADDRESS:
PROJECT NUMBER: 01931701
SAMPLER NAME AND SIGNATURE: Steve Clements
CONTACT PERSON REPORTS TO BE SENT TO: Ken Lister

CARRIER:
SHIPMENT DATE:
SHIPPING NUMBER:
NUMBER OF SAMPLES: 12
PAGE 2 OF 2
QUOTE #/P.O. #
TASK NUMBER:

TURNAROUND TIME REQUIRED:
- [x] NORMAL
- [ ] 5-DAY
- [ ] 3-DAY
- [ ] 24-HOUR
- [ ] IMMEDIATE ATTENTION

SAMPLE I.D. NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	SAMPLE PRESERVATIVE(S)	CONTAINER SIZE/TYPE	DATE/TIME COLLECTED	FIELD TEMP.	FIELD pH	FIELD EC	SPECIAL PROGRAM REQUIREMENTS OR EPA - SOP & QAM REF	ANALYSES REQUIRED: TDS & Gen Min.	ANALYSES REQUIRED: Arsenic	LAB ONLY: SAMPLE CONDITION UPON RECEIPT
0411	MW 3	water	ø	1L tin Amber	2/14/97					X		
0412	MW 3	↓	↓	↓	↓						X	

SPECIAL INSTRUCTIONS / COMMENTS: * General Minerals => See page #1

RELINQUISHED BY: (Signature)	DATE:	RECEIVED BY: (Signature)	DATE:	RELINQUISHED BY: (Signature)	DATE:	RECEIVED BY: (Signature)	DATE:
	2/14/97		2/14/97				2/14/97
COMPANY: SCS	TIME: 11:50 am	COMPANY:	TIME:	COMPANY:	TIME:	COMPANY: STL	TIME: 1:00

Quanterra Environmental Services

Quanterra Incorporated
1721 South Grand Avenue
Santa Ana, California 92705

714 258-8610 Telephone
714 258-0921 Fax

June 19, 1997

SCS ENGINEERS
3711 LONG BEACH BLVD, NINTH FLOOR
LONG BEACH, CA 90807
ATTN: MR. STEVE CLEMENTS

LIMS NO.: 125951-0001/0004
DATE SAMPLED: 14-MAY-1997
DATE SAMPLE REC'D: 15-MAY-1997
PROJECT: LACDAC/0193171.01

Enclosed with this letter is the report containing the analytical results for the project specified above.

The Narrative section included in the following attachment provides a detailed description of all events that occurred during sample processing, analysis, and data review as applicable to the samples and analytical methods requested.

Report data sheets contain a list of the requested constituents measured in each test, the analytical results, and the standard reporting limits (RLs). Reporting limits are adjusted to reflect any dilution or dry weight correction, when applicable. Also provided in this report are the LIMS Report Key and the terms and abbreviations commonly used in our reports.

Preliminary SW8260 and metals data were provided on May 28, 1997; SW8080 data on May 29, 1997; and SW8140 and SW8150 data on June 9, 1997 to Steve Clements.

The 8140 & 8150 analysis were performed by Quanterra - West Sacramento.

The report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions regarding the data provided in this report, please call Pat Abe at (714) 258-8610. Release of this report has been authorized by the Lab Director or the designee as demonstrated by the following signature.

Sincerely,

Pat Abe
Project Manager

cc: Project File

LIMS REPORT KEY

Section	Description
Cover letter	Signature page, report narrative as applicable.
Sample Description Information	Tabulated cross-reference between the Lab ID and Client ID, including matrix, date and time sampled and the date received for all samples in the project.
Sample Analysis Results Sheets	Lists sample results, test components, reporting limits, dates prepared and analyzed and any data qualifiers. Pages are organized by test.
QC Lot Assignment Report	Cross-reference between lab IDs and applicable QC batches (DCS, LCS, SCS, Blank, MS/SD, DU)
Duplicate Control Sample Report	Percent recovery and RPD results, with acceptance limits, for the laboratory Duplicate Control Samples for each test are tabulated in this report. These are measures of accuracy and precision for each test.
Laboratory Control Sample Report	Percent recovery results for a single Laboratory Control Sample (if applicable) are tabulated in this report, with the applicable acceptance limits for each test.
Matrix Spike/Matrix Spike Duplicate Report	Percent recovery and RPD results for matrix-specific QC samples and acceptance limits, where applicable. This report can be used to assess matrix effects on an analysis.
Single Control Sample Report	A tabulation of the surrogate recoveries for the blank for organic analyses.
Method Blank Report	A summary of the results of the analysis of the method blank for each test.

List of Abbreviations and Terms

DCS	Duplicate Control Sample	MSD	Matrix Spike Duplicate
DU	Sample Duplicate	QC Run	Preparation batch
EB	Equipment Blank	QC Category	LIMS QC Category
FB	Field Blank	QC Lot	DCS batch
FD	Field Duplicate	ND	Not Detected at the reporting limit expressed
IDL	Instrument Detection Limit	QC Matrix	Matrix of the laboratory control sample (s)
LCS	Laboratory Control Sample	RL	Reporting Limit
MB	Method Blank	QC	Quality Control
MDL	Method Detection Limit	SA	Sample
MS	Matrix Spike	SD	See MSD
RPD	Relative Percent Difference	TB	Trip Blank
ppm (parts-per-million)	mg/L or mg/kg	ppb (parts-per-billion)	µg/L or µg/kg
QUAL	Qualifier flag	DIL	Dilution Factor

Refer to the Quanterra Incorporated Quality Assurance Management Plan for detailed explanations of terms summarized above.

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LIMS #125951

Cover Letter 1

LIMS Report Key 2

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Chain-of-Custody Records and Sample Description Information

Analytical Results Summary (LIMS Report)

A. LIMS Datasheets
B. QC Summaries

CASE NARRATIVE

LIMS #125951

I. CONDITION UPON RECEIPT

Cooler was received intact. The temperature of the cooler was 5.2°C.

Sample containers were received intact. Proper preservation of applicable samples (excluding VOA samples) was verified upon receipt and documented on the Sample Control worksheet. Sample container label did agree with the COC as to sample ID, collection date/time, requested tests and/or preservatives. A trip blank was received which was not listed on the COC; it was logged in for 8260 analysis as discussed with Steve Clement on May 27, 1997.

Samples were received in time to meet the method holding time specifications.

II. ORGANIC ANALYSES (SW8080, SW8260, SW8140, SW8150)

The SW8140 and SW8150 analyses were performed at the Quanterra - West Sacramento laboratory. There were no anomalies reported for these methods.

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria with the following exception(s):

The recovery of 4,4'-DDT in both the SW8080 LCS (113%) and MSD (128%) exceeded their respective acceptance limits of 40-111% and 10-125%. Since the recoveries were both high (i.e., system was oversensitive toward this compound) and the sample result was non-detect, no further action was taken.

SURROGATE RECOVERIES
All surrogate spike recoveries in samples and in QC samples met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

SAMPLE RESULTS
The SW8080 analysis of sample 125951-0002 still required 2X dilution after mercury clean-up to remove sulfur interferences.

CASE NARRATIVE

LIMS #125951

III. METALS (SW6010A, SW7470)

HOLDING TIME
All samples were prepared and analyzed within the method-specified holding time requirements.

METHOD BLANK
All method blanks met method- and/or project-specific QC criteria.

MS/MSD/LCS/DCS AND RPDs
All spike recovery and RPD data met method- and/or project-specific QC criteria.

CALIBRATIONS
All calibrations and calibration verifications met method- and/or project-specific QC criteria.

Quanterra
Environmental Services

SAMPLE DESCRIPTION INFORMATION
for
SCS Engineers

Lab ID	Client ID	Matrix	Sampled Date	Sampled Time	Received Date
125951-0001-SA	MW1	AQUEOUS	14 MAY 97		15 MAY 97
125951-0001-MS	MW1	AQUEOUS	14 MAY 97		15 MAY 97
125951-0001-SD	MW1	AQUEOUS	14 MAY 97		15 MAY 97
125951-0002-SA	MW-2	AQUEOUS	14 MAY 97		15 MAY 97
125951-0002-MS	MW-2	AQUEOUS	14 MAY 97		15 MAY 97
125951-0002-SD	MW-2	AQUEOUS	14 MAY 97		15 MAY 97
125951-0003-SA	MW-3	AQUEOUS	14 MAY 97		15 MAY 97
125951-0004-SA	TRIP BLANK	WATER-QA	14 MAY 97		15 MAY 97

Quanterra Environmental Services

Organochlorine Pesticides and Polychlorinated Biphenyls
Method 8080

Client Name: SCS Engineers
Client ID: MW1
LAB ID: 125951-0001-SA
Matrix: AQUEOUS — Sampled: 14 MAY 97 — Received: 15 MAY 97
Authorized: 15 MAY 97 — Prepared: 16 MAY 97 — Analyzed: 24 MAY 97
Instrument: GC/ECD-PXA — Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
alpha-BHC	ND		0.050	ug/L
beta-BHC	ND		0.050	ug/L
delta-BHC	ND		0.050	ug/L
gamma-BHC (Lindane)	ND		0.050	ug/L
Aldrin	ND		0.050	ug/L
Heptachlor	ND		0.050	ug/L
Heptachlor epoxide	ND		0.050	ug/L
Endosulfan I	ND		0.050	ug/L
Dieldrin	ND		0.10	ug/L
4,4'-DDE	ND		0.10	ug/L
Endrin	ND		0.10	ug/L
Endosulfan II	ND		0.10	ug/L
4,4'-DDD	ND		0.10	ug/L
Endosulfan sulfate	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
alpha-Chlordane	ND		0.050	ug/L
gamma-Chlordane	ND		0.050	ug/L
Toxaphene	ND		5.0	ug/L

Surrogate	Recovery		Acceptable Range
2,4,5,6-Tetrachloro-m-xylene	82	%	60 - 150
Decachlorobiphenyl	97	%	60 - 150

ND = Not Detected

Quanterra Environmental Services

Organochlorine Pesticides and Polychlorinated Biphenyls
Method 8080

Client Name:	SCS Engineers		
Client ID:	MW-2		
LAB ID:	125951-0002-SA		
Matrix:	AQUEOUS	Sampled: 14 MAY 97	Received: 15 MAY 97
Authorized:	15 MAY 97	Prepared: 16 MAY 97	Analyzed: 24 MAY 97
Instrument:	GC/ECD-PXA	Dilution: 4.0	

Parameter	Result	Qualifier	RL	Units
alpha-BHC	ND	G	0.20	ug/L
beta-BHC	ND	G	0.20	ug/L
delta-BHC	ND	G	0.20	ug/L
gamma-BHC (Lindane)	ND	G	0.20	ug/L
Aldrin	ND	G	0.20	ug/L
Heptachlor	ND	G	0.20	ug/L
Heptachlor epoxide	ND	G	0.20	ug/L
Endosulfan I	ND	G	0.20	ug/L
Dieldrin	ND	G	0.40	ug/L
4,4'-DDE	ND	G	0.40	ug/L
Endrin	ND	G	0.40	ug/L
Endosulfan II	ND	G	0.40	ug/L
4,4'-DDD	ND	G	0.40	ug/L
Endosulfan sulfate	ND	G	0.40	ug/L
4,4'-DDT	ND	G	0.40	ug/L
Endrin aldehyde	ND	G	0.40	ug/L
Methoxychlor	ND	G	2.0	ug/L
alpha-Chlordane	ND	G	0.20	ug/L
gamma-Chlordane	ND	G	0.20	ug/L
Toxaphene	ND	G	20	ug/L

Surrogate	Recovery		Acceptable Range
2,4,5,6-Tetrachloro-m-xylene	99	%	60 - 150
Decachlorobiphenyl	116	%	60 - 150

G = Reporting limit(s) raised due to matrix interference.
ND = Not Detected

Quanterra Environmental Services

Organophosphate Pesticides
Method 8140

Client Name:	SCS Engineers		
Client ID:	MW1		
LAB ID:	125951-0001-SA		
Matrix:	AQUEOUS	Sampled: 14 MAY 97	Received: 15 MAY 97
Authorized:	15 MAY 97	Prepared: 21 MAY 97	Analyzed: 29 MAY 97
Instrument:	PHOS-PEST	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
Azinphos-methyl (Guthion)	ND		1.0	ug/L
Bolstar	ND		1.0	ug/L
Dursban (Chlorpyrifos)	ND		1.0	ug/L
Coumaphos	ND		1.0	ug/L
Demeton	ND		1.0	ug/L
Diazinon	ND		1.0	ug/L
Dichlorvos	ND		2.0	ug/L
Disyston (Disulfoton)	ND		1.0	ug/L
Ethoprop	ND		1.0	ug/L
Fensulfothion	ND		1.0	ug/L
Baytex (Fenthion)	ND		1.0	ug/L
Merphos	ND		1.0	ug/L
Phosdrin (Mevinphos)	ND		1.0	ug/L
Naled	ND		2.0	ug/L
Methyl parathion	ND		1.0	ug/L
Phorate (Thimet)	ND		1.0	ug/L
Ronnel	ND		1.0	ug/L
Tetrachlorvinphos	ND		1.0	ug/L
Tokuthion (Prothiophos)	ND		1.0	ug/L
Trichloronate	ND		1.0	ug/L

Surrogate	Recovery		Acceptable Range
Ethion	95	%	67 - 117

ND = Not Detected

Quanterra Environmental Services

Organochlorine Pesticides and Polychlorinated Biphenyls
Method 8080

Client Name:	SCS Engineers		
Client ID:	MW-3		
LAB ID:	125951-0003-SA		
Matrix:	AQUEOUS	Sampled: 14 MAY 97	Received: 15 MAY 97
Authorized:	15 MAY 97	Prepared: 16 MAY 97	Analyzed: 25 MAY 97
Instrument:	GC/ECD-PXA	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
alpha-BHC	ND		0.050	ug/L
beta-BHC	ND		0.050	ug/L
delta-BHC	ND		0.050	ug/L
gamma-BHC (Lindane)	ND		0.050	ug/L
Aldrin	ND		0.050	ug/L
Heptachlor	ND		0.050	ug/L
Heptachlor epoxide	ND		0.050	ug/L
Endosulfan I	ND		0.050	ug/L
Dieldrin	ND		0.10	ug/L
4,4'-DDE	ND		0.10	ug/L
Endrin	ND		0.10	ug/L
Endosulfan II	ND		0.10	ug/L
4,4'-DDD	ND		0.10	ug/L
Endosulfan sulfate	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
alpha-Chlordane	ND		0.050	ug/L
gamma-Chlordane	ND		0.050	ug/L
Toxaphene	ND		5.0	ug/L

Surrogate	Recovery		Acceptable Range
2,4,5,6-Tetrachloro-m-xylene	83	%	60 - 150
Decachlorobiphenyl	103	%	60 - 150

ND = Not Detected

Quanterra Environmental Services

Organophosphate Pesticides
Method 8140

Client Name: SCS Engineers
Client ID: MW-2
LAB ID: 125951-0002-SA
Matrix: AQUEOUS — Sampled: 14 MAY 97 — Received: 15 MAY 97
Authorized: 15 MAY 97 — Prepared: 21 MAY 97 — Analyzed: 29 MAY 97
Instrument: PHOS-PEST — Dilution: 1.0

Parameter	Result	Qualifier	RL	Units
Azinphos-methyl (Guthion)	ND		1.0	ug/L
Bolstar	ND		1.0	ug/L
Dursban (Chlorpyrifos)	ND		1.0	ug/L
Coumaphos	ND		1.0	ug/L
Demeton	ND		1.0	ug/L
Diazinon	ND		1.0	ug/L
Dichlorvos	ND		2.0	ug/L
Disyston (Disulfoton)	ND		1.0	ug/L
Ethoprop	ND		1.0	ug/L
Fensulfothion	ND		1.0	ug/L
Baytex (Fenthion)	ND		1.0	ug/L
Merphos	ND		1.0	ug/L
Phosdrin (Mevinphos)	ND		1.0	ug/L
Naled	ND		2.0	ug/L
Methyl parathion	ND		1.0	ug/L
Phorate (Thimet)	ND		1.0	ug/L
Ronnel	ND		1.0	ug/L
Tetrachlorvinphos	ND		1.0	ug/L
Tokuthion (Prothiophos)	ND		1.0	ug/L
Trichloronate	ND		1.0	ug/L

Surrogate	Recovery		Acceptable Range
Ethion	99	%	67 - 117

ND = Not Detected

Quanterra Environmental Services

Organophosphate Pesticides
Method 8140

Client Name:	SCS Engineers		
Client ID:	MW-3		
LAB ID:	125951-0003-SA		
Matrix:	AQUEOUS	Sampled: 14 MAY 97	Received: 15 MAY 97
Authorized:	15 MAY 97	Prepared: 21 MAY 97	Analyzed: 29 MAY 97
Instrument:	PHOS-PEST	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
Azinphos-methyl (Guthion)	ND		1.0	ug/L
Bolstar	ND		1.0	ug/L
Dursban (Chlorpyrifos)	ND		1.0	ug/L
Coumaphos	ND		1.0	ug/L
Demeton	ND		1.0	ug/L
Diazinon	ND		1.0	ug/L
Dichlorvos	ND		2.0	ug/L
Disyston (Disulfoton)	ND		1.0	ug/L
Ethoprop	ND		1.0	ug/L
Fensulfothion	ND		1.0	ug/L
Baytex (Fenthion)	ND		1.0	ug/L
Merphos	ND		1.0	ug/L
Phosdrin (Mevinphos)	ND		1.0	ug/L
Naled	ND		2.0	ug/L
Methyl parathion	ND		1.0	ug/L
Phorate (Thimet)	ND		1.0	ug/L
Ronnel	ND		1.0	ug/L
Tetrachlorvinphos	ND		1.0	ug/L
Tokuthion (Prothiophos)	ND		1.0	ug/L
Trichloronate	ND		1.0	ug/L

Surrogate	Recovery		Acceptable Range
Ethion	93	%	67 - 117

ND = Not Detected

Quanterra Environmental Services

Chlorinated Herbicides
Method 8150

Client Name:	SCS Engineers		
Client ID:	MW1		
LAB ID:	125951-0001-SA		
Matrix:	AQUEOUS	Sampled: 14 MAY 97	Received: 15 MAY 97
Authorized:	15 MAY 97	Prepared: 21 MAY 97	Analyzed: 30 MAY 97
Instrument:	ACID	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
2,4-D	ND		0.25	ug/L
2,4-DB	ND		1.0	ug/L
2,4,5-TP (Silvex)	ND		0.050	ug/L
2,4,5-T	ND		0.050	ug/L
MCPA	ND		50	ug/L
MCPP	ND		50	ug/L
Dinoseb	ND		0.25	ug/L
Dalapon	ND		5.0	ug/L
Dichlorprop	ND		0.25	ug/L
Dicamba	ND		0.10	ug/L

Surrogate	Recovery		Acceptable Range
2,4-DCAA	81	%	26 - 132

ND = Not Detected

Quanterra Environmental Services

Chlorinated Herbicides
Method 8150

Client Name:	SCS Engineers		
Client ID:	MW-2		
LAB ID:	125951-0002-SA		
Matrix:	AQUEOUS	Sampled: 14 MAY 97	Received: 15 MAY 97
Authorized:	15 MAY 97	Prepared: 21 MAY 97	Analyzed: 31 MAY 97
Instrument:	ACID	Dilution: 20	

Parameter	Result	Qualifier	RL	Units
2,4-D	ND	o	5.0	ug/L
2,4-DB	ND		20	ug/L
2,4,5-TP (Silvex)	ND		1.0	ug/L
2,4,5-T	ND		1.0	ug/L
MCPA	ND		1000	ug/L
MCPP	ND		1000	ug/L
Dinoseb	12		5.0	ug/L
Dalapon	ND		100	ug/L
Dichlorprop	ND		5.0	ug/L
Dicamba	ND		2.0	ug/L

Surrogate	Recovery		Acceptable Range	
2,4-DCAA	ND	%	26 - 132	H

H = Spiked analyte not detected because of required sample dilution.
o = Reporting limit(s) raised due to high level of analyte present in the sample.
ND = Not Detected

Quanterra
Environmental Services

Chlorinated Herbicides
Method 8150

Client Name:	SCS Engineers		
Client ID:	MW-3		
LAB ID:	125951-0003-SA		
Matrix:	AQUEOUS	Sampled: 14 MAY 97	Received: 15 MAY 97
Authorized:	15 MAY 97	Prepared: 21 MAY 97	Analyzed: 30 MAY 97
Instrument:	ACID	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
2,4-D	ND		0.25	ug/L
2,4-DB	ND		1.0	ug/L
2,4,5-TP (Silvex)	ND		0.050	ug/L
2,4,5-T	ND		0.050	ug/L
MCPA	ND		50	ug/L
MCPP	ND		50	ug/L
Dinoseb	ND		0.25	ug/L
Dalapon	ND		5.0	ug/L
Dichlorprop	ND		0.25	ug/L
Dicamba	ND		0.10	ug/L

Surrogate	Recovery		Acceptable Range
2,4-DCAA	78	%	26 - 132

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name:	SCS Engineers		
Client ID:	MW1		
LAB ID:	125951-0001-SA		
Matrix:	AQUEOUS	Sampled: 14 MAY 97	Received: 15 MAY 97
Authorized:	15 MAY 97	Prepared: 23 MAY 97	Analyzed: 23 MAY 97
Instrument:	GC/MS-MF	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
Chloromethane	ND		10	ug/L
Bromomethane	ND		10	ug/L
Vinyl chloride	ND		10	ug/L
Chloroethane	ND		10	ug/L
Methylene chloride	ND		5.0	ug/L
Acetone	ND		10	ug/L
Carbon disulfide	ND		5.0	ug/L
Trichlorofluoromethane	ND		5.0	ug/L
1,1-Dichloroethene	ND		5.0	ug/L
1,1-Dichloroethane	ND		5.0	ug/L
1,2-Dichloroethene (cis/trans)	ND		5.0	ug/L
Chloroform	ND		5.0	ug/L
1,2-Dichloroethane	ND		5.0	ug/L
2-Butanone	ND		10	ug/L
1,1,1-Trichloroethane	ND		5.0	ug/L
Carbon tetrachloride	ND		5.0	ug/L
Vinyl acetate	ND		10	ug/L
Bromodichloromethane	ND		5.0	ug/L
1,2-Dichloropropane	ND		5.0	ug/L
cis-1,3-Dichloropropene	ND		5.0	ug/L
Trichloroethene	ND		5.0	ug/L
Dibromochloromethane	ND		5.0	ug/L
1,1,2-Trichloroethane	ND		5.0	ug/L
Benzene	ND		5.0	ug/L
trans-1,3-Dichloropropene	ND		5.0	ug/L
2-Chloroethyl vinyl ether	ND		10	ug/L
Bromoform	ND		5.0	ug/L
4-Methyl-2-pentanone	ND		10	ug/L
2-Hexanone	ND		10	ug/L
Tetrachloroethene	ND		5.0	ug/L
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L
Toluene	ND		5.0	ug/L
Chlorobenzene	ND		5.0	ug/L
Ethylbenzene	ND		5.0	ug/L
Styrene	ND		5.0	ug/L
Xylenes (total)	ND		5.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	94	%	80 - 120
Toluene-d8	103	%	80 - 120
Bromofluorobenzene	101	%	80 - 120

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name:	SCS Engineers		
Client ID:	MW-2		
LAB ID:	125951-0002-SA		
Matrix:	AQUEOUS	Sampled: 14 MAY 97	Received: 15 MAY 97
Authorized:	15 MAY 97	Prepared: 23 MAY 97	Analyzed: 23 MAY 97
Instrument:	GC/MS-MF	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
Chloromethane	ND		10	ug/L
Bromomethane	ND		10	ug/L
Vinyl chloride	ND		10	ug/L
Chloroethane	ND		10	ug/L
Methylene chloride	ND		5.0	ug/L
Acetone	ND		10	ug/L
Carbon disulfide	ND		5.0	ug/L
Trichlorofluoromethane	ND		5.0	ug/L
1,1-Dichloroethene	ND		5.0	ug/L
1,1-Dichloroethane	ND		5.0	ug/L
1,2-Dichloroethene (cis/trans)	ND		5.0	ug/L
Chloroform	ND		5.0	ug/L
1,2-Dichloroethane	ND		5.0	ug/L
2-Butanone	ND		10	ug/L
1,1,1-Trichloroethane	ND		5.0	ug/L
Carbon tetrachloride	ND		5.0	ug/L
Vinyl acetate	ND		10	ug/L
Bromodichloromethane	ND		5.0	ug/L
1,2-Dichloropropane	ND		5.0	ug/L
cis-1,3-Dichloropropene	ND		5.0	ug/L
Trichloroethene	ND		5.0	ug/L
Dibromochloromethane	ND		5.0	ug/L
1,1,2-Trichloroethane	ND		5.0	ug/L
Benzene	ND		5.0	ug/L
trans-1,3-Dichloropropene	ND		5.0	ug/L
2-Chloroethyl vinyl ether	ND		10	ug/L
Bromoform	ND		5.0	ug/L
4-Methyl-2-pentanone	ND		10	ug/L
2-Hexanone	ND		10	ug/L
Tetrachloroethene	ND		5.0	ug/L
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L
Toluene	ND		5.0	ug/L
Chlorobenzene	ND		5.0	ug/L
Ethylbenzene	ND		5.0	ug/L
Styrene	ND		5.0	ug/L
Xylenes (total)	ND		5.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	95	%	80 - 120
Toluene-d8	104	%	80 - 120
Bromofluorobenzene	100	%	80 - 120

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name: SCS Engineers
Client ID: MW-3
LAB ID: 125951-0003-SA
Matrix: AQUEOUS
Authorized: 15 MAY 97
Instrument: GC/MS-MF

Sampled: 14 MAY 97
Prepared: 23 MAY 97
Dilution: 1.0

Received: 15 MAY 97
Analyzed: 23 MAY 97

Parameter	Result	Qualifier	RL	Units
Chloromethane	ND		10	ug/L
Bromomethane	ND		10	ug/L
Vinyl chloride	ND		10	ug/L
Chloroethane	ND		10	ug/L
Methylene chloride	ND		5.0	ug/L
Acetone	ND		10	ug/L
Carbon disulfide	ND		5.0	ug/L
Trichlorofluoromethane	ND		5.0	ug/L
1,1-Dichloroethene	ND		5.0	ug/L
1,1-Dichloroethane	ND		5.0	ug/L
1,2-Dichloroethene (cis/trans)	ND		5.0	ug/L
Chloroform	ND		5.0	ug/L
1,2-Dichloroethane	ND		5.0	ug/L
2-Butanone	ND		10	ug/L
1,1,1-Trichloroethane	ND		5.0	ug/L
Carbon tetrachloride	ND		5.0	ug/L
Vinyl acetate	ND		10	ug/L
Bromodichloromethane	ND		5.0	ug/L
1,2-Dichloropropane	ND		5.0	ug/L
cis-1,3-Dichloropropene	ND		5.0	ug/L
Trichloroethene	ND		5.0	ug/L
Dibromochloromethane	ND		5.0	ug/L
1,1,2-Trichloroethane	ND		5.0	ug/L
Benzene	ND		5.0	ug/L
trans-1,3-Dichloropropene	ND		5.0	ug/L
2-Chloroethyl vinyl ether	ND		10	ug/L
Bromoform	ND		5.0	ug/L
4-Methyl-2-pentanone	ND		10	ug/L
2-Hexanone	ND		10	ug/L
Tetrachloroethene	ND		5.0	ug/L
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L
Toluene	ND		5.0	ug/L
Chlorobenzene	ND		5.0	ug/L
Ethylbenzene	ND		5.0	ug/L
Styrene	ND		5.0	ug/L
Xylenes (total)	ND		5.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	93	%	80 - 120
Toluene-d8	102	%	80 - 120
Bromofluorobenzene	96	%	80 - 120

ND = Not Detected

Quanterra Environmental Services

Volatile Organic Compounds
Method 8260

Client Name:	SCS Engineers		
Client ID:	TRIP BLANK		
LAB ID:	125951-0004-SA		
Matrix:	WATER-QA	Sampled: 14 MAY 97	Received: 15 MAY 97
Authorized:	15 MAY 97	Prepared: 23 MAY 97	Analyzed: 23 MAY 97
Instrument:	GC/MS-MF	Dilution: 1.0	

Parameter	Result	Qualifier	RL	Units
Chloromethane	ND		10	ug/L
Bromomethane	ND		10	ug/L
Vinyl chloride	ND		10	ug/L
Chloroethane	ND		10	ug/L
Methylene chloride	ND		5.0	ug/L
Acetone	ND		10	ug/L
Carbon disulfide	ND		5.0	ug/L
Trichlorofluoromethane	ND		5.0	ug/L
1,1-Dichloroethene	ND		5.0	ug/L
1,1-Dichloroethane	ND		5.0	ug/L
1,2-Dichloroethene (cis/trans)	ND		5.0	ug/L
Chloroform	ND		5.0	ug/L
1,2-Dichloroethane	ND		5.0	ug/L
2-Butanone	ND		10	ug/L
1,1,1-Trichloroethane	ND		5.0	ug/L
Carbon tetrachloride	ND		5.0	ug/L
Vinyl acetate	ND		10	ug/L
Bromodichloromethane	ND		5.0	ug/L
1,2-Dichloropropane	ND		5.0	ug/L
cis-1,3-Dichloropropene	ND		5.0	ug/L
Trichloroethene	ND		5.0	ug/L
Dibromochloromethane	ND		5.0	ug/L
1,1,2-Trichloroethane	ND		5.0	ug/L
Benzene	ND		5.0	ug/L
trans-1,3-Dichloropropene	ND		5.0	ug/L
2-Chloroethyl vinyl ether	ND		10	ug/L
Bromoform	ND		5.0	ug/L
4-Methyl-2-pentanone	ND		10	ug/L
2-Hexanone	ND		10	ug/L
Tetrachloroethene	ND		5.0	ug/L
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L
Toluene	ND		5.0	ug/L
Chlorobenzene	ND		5.0	ug/L
Ethylbenzene	ND		5.0	ug/L
Styrene	ND		5.0	ug/L
Xylenes (total)	ND		5.0	ug/L

Surrogate	Recovery		Acceptable Range
1,2-Dichloroethane-d4	93	%	80 - 120
Toluene-d8	103	%	80 - 120
Bromofluorobenzene	100	%	80 - 120

ND = Not Detected

Quanterra Environmental Services

METALS
(Water - Total)

Client Name: SCS Engineers
Client ID: MW1
LAB ID: 125951-0001-SA
Matrix: AQUEOUS
Authorized: 15 MAY 97

Sampled: 14 MAY 97
Prepared: See Below

Received: 15 MAY 97
Analyzed: See Below

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyzed Date
Arsenic	ND		1.0	0.030	mg/L	6010A	16 MAY 97	23 MAY
Cadmium	ND		1.0	0.0050	mg/L	6010A	16 MAY 97	23 MAY
Copper	ND		1.0	0.025	mg/L	6010A	16 MAY 97	23 MAY
Lead	ND		1.0	0.10	mg/L	6010A	16 MAY 97	23 MAY
Mercury	ND		1.0	0.00020	mg/L	SW7470	16 MAY 97	16 MAY
Thallium	ND		1.0	2.0	mg/L	6010A	16 MAY 97	23 MAY
Zinc	ND		1.0	0.020	mg/L	6010A	16 MAY 97	23 MAY

ND = Not Detected

Quanterra
Environmental Services

METALS
(Water - Total)

Client Name: SCS Engineers
Client ID: MW-2
LAB ID: 125951-0002-SA
Matrix: AQUEOUS
Authorized: 15 MAY 97

Sampled: 14 MAY 97
Prepared: See Below

Received: 15 MAY 9
Analyzed: See Belc

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyze Date
Arsenic	ND		1.0	0.030	mg/L	6010A	16 MAY 97	23 MAY
Cadmium	ND		1.0	0.0050	mg/L	6010A	16 MAY 97	23 MAY
Copper	ND		1.0	0.025	mg/L	6010A	16 MAY 97	23 MAY
Lead	ND		1.0	0.10	mg/L	6010A	16 MAY 97	23 MAY
Mercury	ND		1.0	0.00020	mg/L	SW7470	16 MAY 97	16 MAY
Thallium	ND		1.0	2.0	mg/L	6010A	16 MAY 97	23 MAY
Zinc	ND		1.0	0.020	mg/L	6010A	16 MAY 97	23 MAY

ND = Not Detected

Quanterra Environmental Services

METALS
(Water - Total)

Client Name: SCS Engineers
Client ID: MW-3
LAB ID: 125951-0003-SA
Matrix: AQUEOUS
Authorized: 15 MAY 97

Sampled: 14 MAY 97
Prepared: See Below

Received: 15 MAY 9
Analyzed: See Belo

Parameter	Result	Qual	DIL	RL	Units	Method	Prep Date	Analyze Date
Arsenic	ND		1.0	0.030	mg/L	6010A	16 MAY 97	23 MAY
Cadmium	ND		1.0	0.0050	mg/L	6010A	16 MAY 97	23 MAY
Copper	ND		1.0	0.025	mg/L	6010A	16 MAY 97	23 MAY
Lead	ND		1.0	0.10	mg/L	6010A	16 MAY 97	23 MAY
Mercury	ND		1.0	0.00020	mg/L	SW7470	16 MAY 97	16 MAY
Thallium	ND		1.0	2.0	mg/L	6010A	16 MAY 97	23 MAY
Zinc	ND		1.0	0.020	mg/L	6010A	16 MAY 97	23 MAY

ND = Not Detected

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Subcontracted to Quanterra Lab
Project: 125951

Category: 615-A Herbicides
Matrix: AQUEOUS
Sample: 125951-0001
MS Run: 21 MAY 97-11A
Units: ug/L

Analyte	Sample Result	Concentration MS Result	Concentration MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RP
2,4-D	ND	0.866	0.814	1.00	87	81	6.1	34-135	3
2,4,5-TP (Silvex)	ND	0.164	0.172	0.200	82	86	4.3	55-120	3
2,4,5-T	ND	0.171	0.168	0.200	85	84	1.8	51-123	3
Dinoseb	ND	0.549	0.562	1.00	55	56	2.3	45-125	4

Surrogates	Sample %Recovery	%Recovery MS	%Recovery MSD	Acceptance Lim Recovery
2,4-DCAA	81.0	76.0	81.0	26-132

Category: 8140-SW-A Organophosphate Pesticides
Matrix: AQUEOUS
Sample: 125951-0001
MS Run: 21 MAY 97-11A
Units: ug/L

Analyte	Sample Result	Concentration MS Result	Concentration MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RP
Dursban (Chlorpyrifos)	ND	2.2	2.1	2.4	91	89	1.6	60-140	4
Diazinon	ND	2.3	2.2	2.4	96	94	1.9	53-115	1
Phosdrin (Mevinphos)	ND	1.9	1.9	2.4	81	81	0.0	60-140	4
Phorate (Thimet)	ND	2.1	2.1	2.4	88	88	0.2	46-107	2
Tetrachlorvinphos	ND	2.1	2.2	2.4	87	91	3.8	60-140	4

Surrogates	Sample %Recovery	%Recovery MS	%Recovery MSD	Acceptance Lim: Recovery
Ethion	95.0	95.0	96.0	67-117

ND = Not Detected

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

Quanterra Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Subcontracted to Quanterra Lab
Project: 125951

Category: 615-A Herbicides
Matrix: AQUEOUS
Date Analyzed: 30 MAY 97
QC Run: 21 MAY 97-11A
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
2,4-D	1.00	0.877	88	34-135
2,4,5-TP (Silvex)	0.200	0.170	85	55-120
2,4,5-T	0.200	0.176	88	51-123
Dinoseb	1.00	0.615	62	1-92

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
2,4-DCAA	1.00	0.826	83	26-132

Category: 8140-SW-A Organophosphate Pesticides
Matrix: AQUEOUS
Date Analyzed: 29 MAY 97
QC Run: 21 MAY 97-11A
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Dursban (Chlorpyrifos)	2.5	2.2	89	60-140
Diazinon	2.5	2.3	93	53-115
Phosdrin (Mevinphos)	2.5	2.0	79	60-140
Phorate (Thimet)	2.5	2.1	83	46-107
Tetrachlorvinphos	2.5	2.2	89	60-140

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Ethion	2.50	2.38	95	67-117

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

METHOD BLANK REPORT
Semivolatile Organics by GC
Project: 125951

Quanterra Environmental Services

Test: 8080-A
Matrix: AQUEOUS
QC Run: 16 MAY 97-AX

Method 8080 - TCL Organochlorine Pesticides/PCBs

Date Analyzed: 24 MAY 9

Analyte	Result	Units	Reporting Limit
alpha-BHC	ND	ug/L	0.050
beta-BHC	ND	ug/L	0.050
delta-BHC	ND	ug/L	0.050
gamma-BHC (Lindane)	ND	ug/L	0.050
Aldrin	ND	ug/L	0.050
Heptachlor	ND	ug/L	0.050
Heptachlor epoxide	ND	ug/L	0.050
Endosulfan I	ND	ug/L	0.050
Dieldrin	ND	ug/L	0.10
4,4'-DDE	ND	ug/L	0.10
Endrin	ND	ug/L	0.10
Endosulfan II	ND	ug/L	0.10
4,4'-DDD	ND	ug/L	0.10
Endosulfan sulfate	ND	ug/L	0.10
4,4'-DDT	ND	ug/L	0.10
Endrin aldehyde	ND	ug/L	0.10
Methoxychlor	ND	ug/L	0.50
alpha-Chlordane	ND	ug/L	0.050
gamma-Chlordane	ND	ug/L	0.050
Toxaphene	ND	ug/L	5.0

Surrogate	Recovery	Acceptable Range
2,4,5,6-Tetrachloro-m-xylene	85	60 -150
Decachlorobiphenyl	95	60 -150

ND = Not Detected

Quanterra
Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Semivolatile Organics by GC
Project: 125951

Category: 8080-A Pesticides
Matrix: AQUEOUS
Sample: 125951-0002
MS Run: 16 MAY 97-AA
Units: ug/L

Analyte	Sample Result	Concentration MS Result	Concentration MSD Result		Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RPI
gamma-BHC (Lindane)	ND	0.955	1.00		1.00	96	100	4.6	10-159	1
Heptachlor	ND	1.08	1.13		1.00	108	113	4.3	10-142	2
Aldrin	ND	0.781	0.817		1.00	78	82	4.5	15-130	4
Dieldrin	ND	0.889	0.928		1.00	89	93	4.3	23-147	5
Endrin	ND	1.10	1.15		1.00	110	115	4.5	49-130	5
4,4'-DDT	ND	1.23	1.28	n	1.00	123	128	4.6	10-125	5

n = Spiked analyte out of matrix spike acceptance limits; refer to lab control sample results.
ND = Not Detected

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

Quanterra Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Semivolatile Organics by GC
Project: 125951

Category: 8080-A Pesticides
Matrix: AQUEOUS
QC Run: 16 MAY 97-AX
Concentration Units: ug/L

Date Analyzed: 24 MAY 97

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
gamma-BHC (Lindane)	1.00	0.972	97	22-140
Heptachlor	1.00	1.05	105	36-119
Aldrin	1.00	0.782	78	40-112
Dieldrin	1.00	0.875	88	51-130
Endrin	1.00	1.04	104	56-122
4,4'-DDT	1.00	1.13	113	40-111 a

a = See narrative.
Calculations are performed before rounding to avoid round-off errors in calculated results

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Semivolatile Organics by GC

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Numbe (SA,MS,SD,DU)
125951-0001-SA	AQUEOUS	8080-A		16 MAY 97-AX	16 MAY 97-AA
125951-0002-MS	AQUEOUS	8080-A		16 MAY 97-AX	16 MAY 97-AA
125951-0002-SA	AQUEOUS	8080-A		16 MAY 97-AX	16 MAY 97-AA
125951-0002-SD	AQUEOUS	8080-A		16 MAY 97-AX	16 MAY 97-AA
125951-0003-SA	AQUEOUS	8080-A		16 MAY 97-AX	16 MAY 97-AA

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Subcontracted to Quanterra Lab

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
125951-0001-MS	AQUEOUS	615-A		21 MAY 97-11A	21 MAY 97-11A
125951-0001-MS	AQUEOUS	8140-SW-A		21 MAY 97-11A	21 MAY 97-11A
125951-0001-SA	AQUEOUS	615-A		21 MAY 97-11A	21 MAY 97-11A
125951-0001-SA	AQUEOUS	8140-SW-A		21 MAY 97-11A	21 MAY 97-11A
125951-0001-SD	AQUEOUS	615-A		21 MAY 97-11A	21 MAY 97-11A
125951-0001-SD	AQUEOUS	8140-SW-A		21 MAY 97-11A	21 MAY 97-11A
125951-0002-SA	AQUEOUS	615-A		21 MAY 97-11A	21 MAY 97-11A
125951-0002-SA	AQUEOUS	8140-SW-A		21 MAY 97-11A	21 MAY 97-11A
125951-0003-SA	AQUEOUS	615-A		21 MAY 97-11A	21 MAY 97-11A
125951-0003-SA	AQUEOUS	8140-SW-A		21 MAY 97-11A	21 MAY 97-11A

METHOD BLANK REPORT
Subcontracted to Quanterra Lab
Project: 125951

Quanterra Environmental Services

Test: 8150-SW-A
Matrix: AQUEOUS
QC Run: 21 MAY 97-11A

Method 8150 - HSL Chlorinated Phenoxyacid Herbicides

Date Analyzed: 30 MAY 97

Analyte	Result	Units	Reporting Limit
2,4-D	ND	ug/L	0.25
2,4-DB	ND	ug/L	1.0
2,4,5-TP (Silvex)	ND	ug/L	0.050
2,4,5-T	ND	ug/L	0.050
MCPA	ND	ug/L	50
MCPP	ND	ug/L	50
Dinoseb	ND	ug/L	0.25
Dalapon	ND	ug/L	5.0
Dichlorprop	ND	ug/L	0.25
Dicamba	ND	ug/L	0.10

Surrogate	Recovery	Acceptable Range
2,4-DCAA	79	26 -132

Test: 8140-SW-A
Matrix: AQUEOUS
QC Run: 21 MAY 97-11A

Method 8140 - Organophosphorus Pesticides

Date Analyzed: 29 MAY 97

Analyte	Result	Units	Reporting Limit
Azinphos-methyl (Guthion)	ND	ug/L	1.0
Bolstar	ND	ug/L	1.0
Dursban (Chlorpyrifos)	ND	ug/L	1.0
Coumaphos	ND	ug/L	1.0
Demeton	ND	ug/L	1.0
Diazinon	ND	ug/L	1.0
Dichlorvos	ND	ug/L	2.0
Disyston (Disulfoton)	ND	ug/L	1.0
Ethoprop	ND	ug/L	1.0
Fensulfothion	ND	ug/L	1.0
Baytex (Fenthion)	ND	ug/L	1.0
Merphos	ND	ug/L	1.0
Phosdrin (Mevinphos)	ND	ug/L	1.0
Naled	ND	ug/L	2.0
Methyl parathion	ND	ug/L	1.0
Phorate (Thimet)	ND	ug/L	1.0
Ronnel	ND	ug/L	1.0
Tetrachlorvinphos	ND	ug/L	1.0
Tokuthion (Prothiophos)	ND	ug/L	1.0
Trichloronate	ND	ug/L	1.0

ND = Not Detected

METHOD BLANK REPORT (cont.)
Subcontracted to Quanterra Lab
Project: 125951

Quanterra Environmental Services

Test: 8140-SW-A Method 8140 - Organophosphorus Pesticides
Matrix: AQUEOUS

Surrogate	Recovery	Acceptable Range
Ethion	95	67 -117

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Volatile Organics by GC/MS

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
125951-0001-MS	AQUEOUS	Q8260-A		22 MAY 97-BFX	22 MAY 97-BF
125951-0001-SA	AQUEOUS	Q8260-A		22 MAY 97-BFX	22 MAY 97-BF
125951-0001-SD	AQUEOUS	Q8260-A		22 MAY 97-BFX	22 MAY 97-BF
125951-0002-SA	AQUEOUS	Q8260-A		22 MAY 97-BFX	22 MAY 97-BF
125951-0003-SA	AQUEOUS	Q8260-A		22 MAY 97-BFX	22 MAY 97-BF
125951-0004-SA	AQUEOUS	Q8260-A		22 MAY 97-BFX	22 MAY 97-BF

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Volatile Organics by GC/MS
Project: 125951

Category: Q8260-A Method SW8260A - Volatile Organics
Matrix: AQUEOUS Date Analyzed: 22 MAY 97
QC Run: 22 MAY 97-BFX
Concentration Units: ug/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,1-Dichloroethene	50.0	54.0	108	70-120
Trichloroethene	50.0	48.6	97	80-120
Benzene	50.0	50.9	102	80-120
Toluene	50.0	51.4	103	80-120
Chlorobenzene	50.0	48.6	97	80-120

Surrogates	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
1,2-Dichloroethane-d4	50.0	45.6	91	80-120
Bromofluorobenzene	50.0	49.0	98	80-120
Toluene-d8	50.0	50.5	101	80-120

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

Quanterra Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Volatile Organics by GC/MS
Project: 125951

Category: Q8260-A Method SW8260A - Volatile Organics
Matrix: AQUEOUS
Sample: 125951-0001
MS Run: 22 MAY 97-BF
Units: ug/L

Analyte	Sample Result	Concentration MS Result	Concentration MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptance Limit Recov.	Acceptance Limit RP
1,1-Dichloroethene	ND	54.3	51.9	50.0	109	104	4.5	70-120	2
Trichloroethene	ND	50.0	47.8	50.0	100	96	4.5	80-120	2
Benzene	ND	53.9	50.9	50.0	108	102	5.7	80-120	2
Toluene	ND	53.9	50.4	50.0	108	101	6.7	80-120	2
Chlorobenzene	ND	50.0	47.0	50.0	100	94	6.2	80-120	2

Surrogates	Sample %Recovery	%Recovery MS	%Recovery MSD	Acceptance Lim Recovery
1,2-Dichloroethane-d4	94	95	93	80-120
Bromofluorobenzene	101	101	97	80-120
Toluene-d8	103	104	101	80-120

ND = Not Detected

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

Quanterra Environmental Services

METHOD BLANK REPORT
Volatile Organics by GC/MS
Project: 125951

Test: 8260-SL-A Method 8260 - Volatile Organics
Matrix: AQUEOUS
QC Run: 22 MAY 97-BFX

Date Analyzed: 22 MAY 97

Analyte	Result	Units	Reporting Limit
Chloromethane	ND	ug/L	10
Bromomethane	ND	ug/L	10
Vinyl chloride	ND	ug/L	10
Chloroethane	ND	ug/L	10
Methylene chloride	ND	ug/L	5.0
Acetone	ND	ug/L	10
Carbon disulfide	ND	ug/L	5.0
Trichlorofluoromethane	ND	ug/L	5.0
1,1-Dichloroethene	ND	ug/L	5.0
1,1-Dichloroethane	ND	ug/L	5.0
1,2-Dichloroethene (cis/trans)	ND	ug/L	5.0
Chloroform	ND	ug/L	5.0
1,2-Dichloroethane	ND	ug/L	5.0
2-Butanone	ND	ug/L	10
1,1,1-Trichloroethane	ND	ug/L	5.0
Carbon tetrachloride	ND	ug/L	5.0
Vinyl acetate	ND	ug/L	10
Bromodichloromethane	ND	ug/L	5.0
1,2-Dichloropropane	ND	ug/L	5.0
cis-1,3-Dichloropropene	ND	ug/L	5.0
Trichloroethene	ND	ug/L	5.0
Dibromochloromethane	ND	ug/L	5.0
1,1,2-Trichloroethane	ND	ug/L	5.0
Benzene	ND	ug/L	5.0
trans-1,3-Dichloropropene	ND	ug/L	5.0
2-Chloroethyl vinyl ether	ND	ug/L	10
Bromoform	ND	ug/L	5.0
4-Methyl-2-pentanone	ND	ug/L	10
2-Hexanone	ND	ug/L	10
Tetrachloroethene	ND	ug/L	5.0
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0
Toluene	ND	ug/L	5.0
Chlorobenzene	ND	ug/L	5.0
Ethylbenzene	ND	ug/L	5.0
Styrene	ND	ug/L	5.0
Xylenes (total)	ND	ug/L	5.0

Surrogate	Recovery	Acceptable Range
1,2-Dichloroethane-d4	90	80 -120
Toluene-d8	99	80 -120
Bromofluorobenzene	97	80 -120

ND = Not Detected

Quanterra
Environmental Services

QC LOT ASSIGNMENT REPORT - MS QC
Metals Analysis and Preparation

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK/LCS)	MS QC Run Numbe (SA,MS,SD,DU)
125951-0001-MS	AQUEOUS	ICP-AT		16 MAY 97-LX	16 MAY 97-LA
125951-0001-MS	AQUEOUS	HG-CVAA-A		16 MAY 97-HX	16 MAY 97-HA
125951-0001-SA	AQUEOUS	ICP-AT		16 MAY 97-LX	16 MAY 97-LA
125951-0001-SA	AQUEOUS	HG-CVAA-A		16 MAY 97-HX	16 MAY 97-HA
125951-0001-SD	AQUEOUS	ICP-AT		16 MAY 97-LX	16 MAY 97-LA
125951-0001-SD	AQUEOUS	HG-CVAA-A		16 MAY 97-HX	16 MAY 97-HA
125951-0002-SA	AQUEOUS	ICP-AT		16 MAY 97-LX	16 MAY 97-LA
125951-0002-SA	AQUEOUS	HG-CVAA-A		16 MAY 97-HX	16 MAY 97-HA
125951-0003-SA	AQUEOUS	ICP-AT		16 MAY 97-LX	16 MAY 97-LA
125951-0003-SA	AQUEOUS	HG-CVAA-A		16 MAY 97-HX	16 MAY 97-HA

Quanterra
Environmental Services

LABORATORY CONTROL SAMPLE REPORT
Metals Analysis and Preparation
Project: 125951

Category: ICP-AT ICP Metals
Matrix: AQUEOUS
Date Analyzed: 23 MAY 97
QC Run: 16 MAY 97-LX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Arsenic	2.00	2.01	101	85-115
Cadmium	0.0500	0.0509	102	80-115
Copper	0.250	0.259	103	85-115
Lead	0.500	0.506	101	80-115
Thallium	2.00	2.01	101	85-115
Zinc	0.500	0.523	105	85-115

Category: HG-CVAA-A Mercury by CVAA
Matrix: AQUEOUS
Date Analyzed: 16 MAY 97
QC Run: 16 MAY 97-HX
Concentration Units: mg/L

Analyte	Concentration Spiked	Concentration Measured	Accuracy(%) LCS	Accuracy(%) Limits
Mercury	0.00500	0.00516	103	80-120

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

Quanterra Environmental Services

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC REPORT
Metals Analysis and Preparation
Project: 125951

Category: ICP-AT ICP Metals
Matrix: AQUEOUS
Sample: 125951-0001
MS Run: 16 MAY 97-LA
Units: mg/L

Analyte	Sample Result	Concentration MS Result	Concentration MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptanc Limit Recov.	R
Arsenic	ND	2.02	2.08	2.00	101	104	2.8	85-115	
Cadmium	ND	0.0505	0.0512	0.0500	101	102	1.4	80-115	
Copper	ND	0.259	0.268	0.250	104	107	3.3	85-115	
Lead	ND	0.505	0.520	0.500	101	104	2.8	80-115	
Thallium	ND	2.02	2.07	2.00	101	103	2.4	80-115	
Zinc	ND	0.530	0.546	0.500	106	109	3.1	85-115	

Category: HG-CVAA-A Mercury by CVAA
Matrix: AQUEOUS
Sample: 125951-0001
MS Run: 16 MAY 97-HA
Units: mg/L

Analyte	Sample Result	Concentration MS Result	Concentration MSD Result	Amount Spiked MS/MSD	%Recovery MS	%Recovery MSD	%RPD	Acceptanc Limit Recov.	R
Mercury	ND	0.00111	0.00107	0.00100	111	107	3.7	80-120	

ND = Not Detected

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

Quanterra Environmental Services

METHOD BLANK REPORT
Metals Analysis and Preparation
Project: 125951

Test: ICPT-AT
Matrix: AQUEOUS
QC Run: 16 MAY 97-LX

Method 6010A - ICP Metals (Total)

Date Analyzed: 23 MAY 9

Analyte	Result	Units	Reporting Limit
Arsenic	ND	mg/L	0.030
Cadmium	ND	mg/L	0.0050
Copper	ND	mg/L	0.025
Lead	ND	mg/L	0.10
Thallium	ND	mg/L	2.0
Zinc	ND	mg/L	0.020

Test: HG-CVAA-AT
Matrix: AQUEOUS
QC Run: 16 MAY 97-HX

Method SW7470 - Mercury, Cold Vapor AA (Total)

Date Analyzed: 16 MAY 9

Analyte	Result	Units	Reporting Limit
Mercury	ND	mg/L	0.00020

ND = Not Detected

CHAIN OF CUSTODY RECORD REQUEST FOR ANALYSIS

125951

COMPANY NAME: SCS Engineers
STREET: 5711 Long Beach Blvd
CITY: L.B. STATE: Ca ZIP: 90805
PHONE: (562) 426-9544 FAX: ( )
PROJECT NAME: LAC DAC
PROJECT ADDRESS:
PROJECT NUMBER: 01431/71.01
SAMPLER NAME AND SIGNATURE: Steve McGovern
CONTACT PERSON REPORTS TO BE SENT TO: Steve Clementi

CARRIER:
SHIPMENT DATE:
SHIPPING NUMBER:
NUMBER OF SAMPLES:
PAGE 1 OF 3
QUOTE #/P.O. #
TASK NUMBER:

TURNAROUND TIME REQUIRED:
☒ NORMAL
☐ 5-DAY ☐ 3 DAY
☐ 24-HOUR
☐ IMMEDIATE ATTENTION

ANALYSES REQUIRED

SAMPLE I.D. NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	SAMPLE PRESERVATIVE(S)	CONTAINER SIZE/TYPE	DATE/TIME COLLECTED	FIELD TEMP.	FIELD pH	FIELD EC	SPECIAL PROGRAM REQUIREMENTS OR EPA - SOP & QAM REF	8080 (no PCB)	8140	8150	8270 + TPH GA/QC	metals *	8240						LAB ONLY: SAMPLE CONDITION UPON RECEIPT
01																					
02	MW 1	Water			5/14/97				2 containers	✓											5.2°C
03	"								"		✓										
04	"								"			✓									
05	"								"				✓								
06																					
07																					
08	"								"				✓								
09	"								1 "					✓	✓						
10																					
11	"								3 "						✓						

SPECIAL INSTRUCTIONS / COMMENTS: * Metals: As, Cd, Cr, Pb, Hg, Tl, Zn

RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	DATE	RELINQUISHED BY (Signature)	DATE	RECEIVED BY (Signature)	DATE
COMPANY	TIME	COMPANY	TIME	COMPANY	TIME	COMPANY	TIME
Steve McGovern	5/15/97	QES-S.A	5/15/97 0900				

CHAIN OF CUSTODY RECORD REQUEST FOR ANALYSIS

COMPANY NAME: SCS Engineers
STREET:
CITY: Same as Pg 1 STATE: ZIP:
PHONE: ( ) FAX: ( )
PROJECT NAME: LACDAC
PROJECT ADDRESS:
PROJECT NUMBER: 01931171.01
SAMPLER NAME AND SIGNATURE: Steve McGowan
CONTACT PERSON REPORTS TO BE SENT TO: Steve Clements

CARRIER:
SHIPMENT DATE:
SHIPPING NUMBER:
NUMBER OF SAMPLES:
QUOTE #/P.O. #:
TASK NUMBER:

PAGE 2 OF 3

TURNAROUND TIME REQUIRED:
- [x] NORMAL
- [ ] 5-DAY
- [ ] 3-DAY
- [ ] 24-HOUR
- [ ] IMMEDIATE ATTENTION

SAMPLE I.D. NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	SAMPLE PRESERVATIVE(S)	CONTAINER SIZE/TYPE	DATE/TIME COLLECTED	FIELD TEMP.	FIELD pH	FIELD EC	SPECIAL PROGRAM REQUIREMENTS OR EPA - SOP & QAM REF	8260	8240	8150	Arch Archive	Metals *	8260					LAB ONLY: SAMPLE CONDITION UPON RECEIPT
19																				
20	MW-2	water			5/14/97				2 containers	✓										
21	"								"		✓									
22	"								"			✓								
23	"								"				✓							
24	"								"					✓						
25	"								3 containers						✓					
26	"								1 container					✓						
27	"								2 containers	✓										
28	MW-3								"		✓									
29	"								"			✓								
30	"								"				✓							
31	"								"					✓						
32	"																			
33																				
34																				

SPECIAL INSTRUCTIONS / COMMENTS:

* metals — See Pg #1

RELINQUISHED BY (Signature)	DATE / TIME	RECEIVED BY (Signature)	DATE / TIME	RELINQUISHED BY (Signature)	DATE / TIME	RECEIVED BY (Signature)	DATE / TIME
COMPANY	5/15/97	COMPANY QES-S.A.	5/15/97 0900	COMPANY		COMPANY	

01/96

CHAIN OF CUSTODY RECORD REQUEST FOR ANALYSIS

COMPANY NAME: SCS Engineers
STREET:
CITY: Same STATE: ZIP:
PHONE ( ) FAX ( )
PROJECT NAME: LACDMC
PROJECT ADDRESS:
PROJECT NUMBER: 01931.71.01
SAMPLER NAME AND SIGNATURE: Steve McGovern
CONTACT PERSON REPORTS TO BE SENT TO: Steve Clements

CARRIER:
SHIPMENT DATE:
SHIPPING NUMBER:
NUMBER OF SAMPLES:
QUOTE #/P.O. #
TASK NUMBER:

PAGE 3 OF 3

TURNAROUND TIME REQUIRED:
- [x] NORMAL
- [ ] 5-DAY
- [ ] 3-DAY
- [ ] 24-HOUR
- [ ] IMMEDIATE ATTENTION

SAMPLE ID NUMBER	SAMPLE DESCRIPTION	SAMPLE MATRIX	SAMPLE PRESERVATIVE(S)	CONTAINER SIZE:TYPE	DATE/TIME COLLECTED	FIELD TEMP.	FIELD pH	FIELD EC	SPECIAL PROGRAM REQUIREMENTS OR EPA - SOP & QAM REF	ANALYSES REQUIRED: Metals	ANALYSES REQUIRED: Gases	LAB ONLY: SAMPLE CONDITION UPON RECEIPT
45	MW3	Water			5/15/97				1 container	✓		
~~44~~ 46 47 48	MW3	"							3 containers		✓	

SPECIAL INSTRUCTIONS / COMMENTS: Metals : See Pg #1

RELINQUISHED BY: (Signature)	DATE	RECEIVED BY: (Signature)	DATE:	RELINQUISHED BY: (Signature)	DATE:	RECEIVED BY: (Signature)	DATE
COMPANY:	TIME:	COMPANY: QES-S.A	TIME: 0900	COMPANY:	TIME:	COMPANY:	TIME