

March 11, 2008

Analytical Report for Service Request No: K0801349

Richard Johnson Environmental Chemistry Consulting Services, Inc. 2525 Advance Rd. Madison, WI 53718

RE: Kuhlman Electric

Dear Richard:

Enclosed are the results of the samples submitted to our laboratory on February 15, 2008. For your reference, these analyses have been assigned our service request number K0801349.

All analyses were performed according to our laboratory's quality assurance program. Where applicable, the methods cited conform to the Methods Update Rule (effective 4/11/2007), which relates to the use of analytical methods for the drinking water and waste water programs. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3376. You may also contact me via Email at GSalata@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Gregory Salata, Ph.D.

Project Chemist

GS/lb

cc:

Robert Martin

Martin & Slagle

Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon
CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology
DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable
NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but greater

than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- * The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

Columbia Analytical Services, Inc. Kelso, WA State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-





Case Narrative

Client:

Environmental Chemistry Consulting Services, Inc. Service Request No.:

K0801349

Project:

Kuhlman Electric

Date Received:

02/15/08

Sample Matrix:

Water

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Duplicate (DUP), Matrix/Duplicate Matrix Spike (MS/DMS), and Laboratory/Duplicate Laboratory Control Sample (LCS/DLCS).

Sample Receipt

Three water samples were received for analysis at Columbia Analytical Services on 02/15/08. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

PCB Aroclors by EPA Method 8082

Elevated Method Reporting Limits:

The reporting limit is elevated for Aroclors 1221, 1232, 1242, and 1248 in samples CSW-WA1-021 and CSW-The chromatogram indicated the presence of non-target background components. The matrix interference prevented adequate resolution of the target compounds at the reporting limit. The results are flagged to indicate the matrix interference.

No other anomalies associated with the analysis of these samples were observed.

Volatile Organic Compounds by EPA Method 8260B

No anomalies associated with the analysis of these samples were observed.

1,4-Dioxane by EPA Method 8270C

Sample Notes and Discussion

Insufficient sample volume was received to perform a Matrix Spike/Matrix Spike Duplicate (MS/MSD). A Laboratory Control Sample/Duplicate Laboratory Control Sample (LCS/DLCS) was analyzed and reported in lieu of the MS/MSD for these samples.

No other anomalies associated with the analysis of these samples were observed.

Approved by Regard Salata Date 4/12/08

Chain of Custody Documentation

Columbia Analytical Services ***

CHAIN OF CUSTODY

SR#: (/) (1/5() 1/3() 1/3 |

fVICeS ***- d Company	1317 South 13th Ave. • Kelso, WA 98626	• (360) 577-7222 • (800) 695-7222×07 • FA)	OF COC #
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SAMPLE I.D. DATE	TIME LABI.D. MATRIX / >	Sel Sel He D O P O C F P Me C P P P P P P P P P	_
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CSW-Dufferente espetos	- WS	×	×
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X			
REPORT REQUIREMENTS	INVOICE INFORMATION P.O. #	Circle which metals are to be analyzed:	
I. Routine Report: Method	Bill To:	Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn	Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg
blank, Surrogate, as required	The second secon	or Cu Fe Pb Me	- 1
II. Report Dup., MS, MSD as	THOMADOLIND BEOLIDEMENTS	*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI	NORTHWEST OTHER: (CIRCLE ONE)
required	24 hr. 48 hr.	SPECIAL INSTRUCTIONS/COMMENTS:	
III. Data Validation Report		アード	1, 131 Vaine
2	X Standard (10-15 working days)	Container Supply Number	
V. EDD	Provide FAX Results		
	Requested Report Date	7185	
Myles I.M. Fill of 1971	OS NIN REC	RECEIVED BY: A NOW RELINQUISHED BY:	RECEIVED BY:
O. M. Pecl	Signature	Date/Time Signature Date/Time	Signature Date/Time
Printed Name Firm	Printed Name	Firm Printed Name Firm	Printed Name Firm

RCOC #1 06/03

Cooler Receipt and Preservation Form

PCWEG.

Client / Project: ECCS					_Service	Reque	eșt <i>K08</i>	}	134	9		J
Received: 2/15/00	Opened:_	2/15/08		Ву	/:	TSKA	th					
Samples were received via?Samples were received in: (circle)Were <u>custody seals</u> on coolers?	US Mail e) Coo		<i>UPS</i> x N	Envelo		GH Other_	GS	PDX	Couri	er H	and Del NA	ivered
If present, were custody seals int		$\overline{}$	N		f present				dated?		Q	N
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Is shipper's air-bill filed? If not,	record an-c	om number								NA	لا	IN
Temperature of cooler(s) upon Temperature Blank (°C):	receipt (°C	<u> </u>	2.6									
6. If applicable, list Chain of Custo	dy Numbers	S:							 			
Were custody papers properly file	led out (ink	, signed, etc.)	?							NA	E)) N
2. Packing material used. Inser	ts Bubb	le Wrap	Gel Pac	eks <	Wet Ice	$>$ $_{Sle}$	eeves	Othe	r			
Did all bottles arrive in good co	ondition (ur	nbroken)? /	ndicate	in the	table bel	ow.				NA	\otimes	N
0. Were all sample labels complete	e (i.e analysi	s, preservatio	n, etc.)	?							\mathfrak{D}	N
1. Did all sample labels and tags a	gree with cu	stody papers	? Indic	ate in t	he table i	below					0	N
2. Were the correct types of bott	les used for	the tests ind	icated'	?						NA	Q	N
3. Were all of the preserved bottles	received at	the lab with	the app	ropriat	е рН? <i>In</i>	dicate i	in the to	ible belo	DW .	MA	.Υ	N
4. Were VOA vials and 1631 Mero	cury bottles	checked for a	bsence	of air b	oubbles?	Indica	te in the	table b	elow.	NA	Ø	Ν
5. Are CWA Microbiology samp	les received	with >1/2 th	ie 24hr	. hold	time rem	aining	from c	ollectio	n?		Y	N
6. Was C12/Res negative?											Y	N
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Polychlorinated Biphenyls PCB's EPA Method 8082

Analytical Results

Client:

Environmental Chemistry Consulting Servi

ND U

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0801349

Date Collected: 02/12/2008 **Date Received:** 02/15/2008

Polychlorinated Biphenyls (PCBs)

Sample Name:

CSW-WA1-021

Lab Code:

Aroclor 1260

K0801349-001

Extraction Method:

EPA 3535

Analysis Method:

8082

Units: ug/L Basis: NA

Level: Low

KWG0801528

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	0.020	1	02/19/08	02/22/08	KWG0801528	
Aroclor 1221	ND U	0.040	1	02/19/08	02/22/08	KWG0801528	
Aroclor 1232	ND U	0.020	1	02/19/08	02/22/08	KWG0801528	
Aroclor 1242	ND U	0.020	1	02/19/08	02/22/08	KWG0801528	
Aroclor 1248	ND Ui	0.074	1	02/19/08	02/22/08	KWG0801528	
Aroclor 1254	ND U	0.020	1	02/19/08	02/22/08	KWG0801528	

1

02/19/08

02/22/08

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	82	27-121	02/22/08	Acceptable

0.020

Comments:

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Form 1A - Organic

1 of 1

SuperSet Reference:

Analytical Results

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0801349

Date Collected: 02/12/2008 **Date Received:** 02/15/2008

Polychlorinated Biphenyls (PCBs)

Sample Name:

CSW-Duplicate

Lab Code:

K0801349-002

Extraction Method: Analysis Method:

EPA 3535

8082

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	0.020	1	02/19/08	02/22/08	KWG0801528	
Aroclor 1221	ND U	0.040	1	02/19/08	02/22/08	KWG0801528	
Aroclor 1232	ND U	0.020	1	02/19/08	02/22/08	KWG0801528	
Aroclor 1242	ND U	0.020	1	02/19/08	02/22/08	KWG0801528	
Aroclor 1248	ND Ui	0.091	1	02/19/08	02/22/08	KWG0801528	
Aroclor 1254	ND U	0.020	1	02/19/08	02/22/08	KWG0801528	
Aroclor 1260	ND U	0.020	1	02/19/08	02/22/08	KWG0801528	THE THE PERSON NAMED IN COLUMN TO TH

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	86	27-121	02/22/08	Acceptable

Comments:

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Form 1A - Organic

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Page 1 of 1

SuperSet Reference:

Analytical Results

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0801349

Date Collected: NA Date Received: NA

Polychlorinated Biphenyls (PCBs)

Sample Name:

Method Blank

Lab Code:

KWG0801528-3

Extraction Method: EPA 3535

Units: ug/L Basis: NA

Level: Low

Analysis Method:

8082

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.020	1	02/19/08	02/22/08	KWG0801528	
Aroclor 1221	ND	U	0.039	1	02/19/08	02/22/08	KWG0801528	
Aroclor 1232	ND	U	0.020	1	02/19/08	02/22/08	KWG0801528	
Aroclor 1242	ND	U	0.020	1	02/19/08	02/22/08	KWG0801528	
Aroclor 1248	ND	U	0.020	1	02/19/08	02/22/08	KWG0801528	
Aroclor 1254	ND	U	0.020	1	02/19/08	02/22/08	KWG0801528	
Aroclor 1260	ND	U	0.020	1	02/19/08	02/22/08	KWG0801528	

Control Date te Name %Rec Limits Analyzed Note	
orobiphenyl 79 27-121 02/22/08 Acceptable	oiphenyl 79

Comments:

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Form 1A - Organic

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Page 1 of 1

SuperSet Reference:

QA/QC Report

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0801349

Surrogate Recovery Summary Polychlorinated Biphenyls (PCBs)

Extraction Method:

EPA 3535

Analysis Method:

8082

Units: PERCENT

Level: Low

Sample Name	Lab Code	Sur1
CSW-WA1-021	K0801349-001	82
CSW-Duplicate	K0801349-002	86
Method Blank	KWG0801528-3	79
Lab Control Sample	KWG0801528-1	81
Duplicate Lab Control Sample	KWG0801528-2	81

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl

27-121

Results flagged with an asterisk (*) indicate values outside control criteria. Results flagged with a pound (#) indicate the control criteria is not applicable.

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Form 2A - Organic

Page 1 of

RR84154

SuperSet Reference:

QA/QC Report

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0801349

Date Extracted: 02/19/2008

Date Analyzed: 02/22/2008

Lab Control Spike/Duplicate Lab Control Spike Summary Polychlorinated Biphenyls (PCBs)

%Rec

71

73

Extraction Method:

EPA 3535

Analysis Method:

Analyte Name

Aroclor 1016

Aroclor 1260

8082

Units: ug/L

Basis: NA

Level: Low

Extraction Lot: KWG0801528

Lab Control Sample

Result

0.143

0.145

KWG0801528-1 Lab Control Spike

Expected

0.200

0.200

Duplicate Lab Control Sample

KWG0801528-2

Duplicate Lab Control Spike

Expected

0.200

0.200

Result

0.163

0.164

Spike	%Rec		RPD	
%Rec	Limits	RPD	Limit	
81	30-113	13	30	
82	42-111	12	30	

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Form 3C - Organic

Page

1 of

SuperSet Reference: RR84154

Volatile Organic Compounds EPA Method 8260B

Analytical Results

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0801349

Date Collected: 02/12/2008 **Date Received:** 02/15/2008

Volatile Organic Compounds

Sample Name:

CSW-WA1-021

Lab Code:

K0801349-001

Extraction Method:

EPA 5030B

Analysis Method: 8260B

Units: ug/L Basis: NA

Level: Low

A T - A NY				Dilution	Date	Date	Extraction	
Analyte Name	Result		MRL	Factor	Extracted	Analyzed	Lot	Note
Dichlorodifluoromethane	ND		0.50	1	02/16/08	02/16/08	KWG0801614	
Chloromethane	ND		0.50	1	02/16/08	02/16/08	KWG0801614	
Vinyl Chloride	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Bromomethane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Chloroethane	ND		0.50	1	02/16/08	02/16/08	KWG0801614	
Trichlorofluoromethane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Acetone	ND	U	20	1	02/16/08	02/16/08	KWG0801614	
1,1-Dichloroethene	0.93		0.50	1	02/16/08	02/16/08	KWG0801614	
Carbon Disulfide	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Methylene Chloride	ND		2.0	1	02/16/08	02/16/08	KWG0801614	
trans-1,2-Dichloroethene	ND		0.50	1	02/16/08	02/16/08	KWG0801614	
1,1-Dichloroethane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
2-Butanone (MEK)	ND		20	1	02/16/08	02/16/08	KWG0801614	
2,2-Dichloropropane	ND		0.50	1	02/16/08	02/16/08	KWG0801614	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Chloroform	ND		0.50	1	02/16/08	02/16/08	KWG0801614	
Bromochloromethane	ND		0.50	1	02/16/08	02/16/08	KWG0801614	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
1,1-Dichloropropene	ND		0.50	1	02/16/08	02/16/08	KWG0801614	
Carbon Tetrachloride	ND		0.50	1	02/16/08	02/16/08	KWG0801614	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Benzene	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Trichloroethene (TCE)	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
1,2-Dichloropropane	ND	U	0.50	1	02/16/08	02/16/08	KWG0801614	
Bromodichloromethane	ND		0.50	1	02/16/08	02/16/08	KWG0801614	
Dibromomethane	ND '		0.50	1	02/16/08	02/16/08	KWG0801614	
2-Hexanone	ND 1	U	20	1	02/16/08	02/16/08	KWG0801614	
cis-1,3-Dichloropropene	ND 1		0.50	1	02/16/08	02/16/08	KWG0801614	
Toluene	ND I		0.50	1	02/16/08	02/16/08	KWG0801614	
trans-1,3-Dichloropropene	ND I	U	0.50	1	02/16/08	02/16/08	KWG0801614	
1,1,2-Trichloroethane	ND I		0.50	1	02/16/08	02/16/08	KWG0801614	
4-Methyl-2-pentanone (MIBK)	ND I	J	20	1	02/16/08	02/16/08	KWG0801614	
1,3-Dichloropropane	ND (J	0.50	1	02/16/08	02/16/08	KWG0801614	

Comments:

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Form 1A - Organic

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Page 1 of 3

SuperSet Reference: RR84216

Analytical Results

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0801349

Date Collected: 02/12/2008

Date Received: 02/15/2008

Volatile Organic Compounds

Sample Name: Lab Code:

CSW-WA1-021

Extraction Method: Analysis Method:

K0801349-001

EPA 5030B 8260B

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date	Extraction	
Tetrachloroethene (PCE)	ND U	0.50	1	02/16/08	· · · · · ·		Note
Dibromochloromethane	ND U	0.50	1	02/16/08	/ 10/00		
1,2-Dibromoethane (EDB)	ND U	2.0	1	02/16/08	02,10,00		
Chlorobenzene	ND U	0.50			02/16/08		
1,1,1,2-Tetrachloroethane	ND U	0.50	1	02/16/08	02/16/08		
Ethylbenzene	ND U	0.50	1 1	02/16/08	02/16/08		
m,p-Xylenes	ND U	0.50		02/16/08	02/16/08	KWG0801614	
o-Xylene	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
Styrene	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
Bromoform	ND U		1	02/16/08	02/16/08	KWG0801614	
Isopropylbenzene	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
1,1,2,2-Tetrachloroethane	ND U	2.0	1	02/16/08	02/16/08	KWG0801614	
1,2,3-Trichloropropane		0.50	1	02/16/08	02/16/08	KWG0801614	
Bromobenzene	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
n-Propylbenzene	ND U	2.0	1	02/16/08	02/16/08	KWG0801614	
2-Chlorotoluene	ND U	2.0	1	02/16/08	02/16/08	KWG0801614	
4-Chlorotoluene	ND U	2.0	1	02/16/08	02/16/08	KWG0801614	
1,3,5-Trimethylbenzene	ND U	2.0	1	02/16/08	02/16/08		
	ND U	2.0	1	02/16/08	02/16/08	KWG0801614	
tert-Butylbenzene	ND U	2.0	1	02/16/08		KWG0801614	-
1,2,4-Trimethylbenzene sec-Butylbenzene	ND U	2.0	1	02/16/08	02/16/08	KWG0801614	
	ND U	2.0	1	02/16/08	02/16/08	KWG0801614	
1,3-Dichlorobenzene	ND U	0.50			02/16/08	KWG0801614	
4-Isopropyltoluene	ND U	2.0	1	02/16/08	02/16/08	KWG0801614	
1,4-Dichlorobenzene	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
n-Butylbenzene	ND U	2.0	1	02/16/08	02/16/08	KWG0801614	
1,2-Dichlorobenzene	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
1,2-Dibromo-3-chloropropane	ND U	2.0	1	02/16/08	02/16/08	KWG0801614	
1,2,4-Trichlorobenzene	ND U		1	02/16/08	02/16/08	KWG0801614	
1,2,3-Trichlorobenzene	ND U	2.0	1	02/16/08		KWG0801614	
Naphthalene	ND U	2.0	1	02/16/08		KWG0801614	
Hexachlorobutadiene		2.0	1			KWG0801614	
,3,5-Trichlorobenzene	ND U	2.0	1			KWG0801614	
	ND U	5.0	1			KWG0801614 KWG0801614	
					V2/10/00	X * * GU00U1014	

Comments:

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SuperSet Reference:

Analytical Results

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0801349

Date Collected: 02/12/2008

Date Received: 02/15/2008

Volatile Organic Compounds

Sample Name:

CSW-WA1-021

Lab Code:

K0801349-001

Units: ug/L

Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	94	82-125	02/16/08	Acceptable	
Toluene-d8	93	87-120	02/16/08	Acceptable	
4-Bromofluorobenzene	89	73-118	02/16/08	Acceptable	

Comments:

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Analytical Results

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0801349

Date Collected: 02/12/2008 **Date Received:** 02/15/2008

Volatile Organic Compounds

Sample Name: Lab Code:

CSW-Duplicate K0801349-002

Extraction Method: Analysis Method:

EPA 5030B 8260B

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	11010
Chloromethane	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
Vinyl Chloride	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
Bromomethane	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
Chloroethane	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
Trichlorofluoromethane	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
Acetone	ND U	20	1	02/16/08	02/16/08	KWG0801614	-
1,1-Dichloroethene	1.0	0.50	1	02/16/08	02/16/08	KWG0801614	
Carbon Disulfide	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
Methylene Chloride	ND U	2.0	1	02/16/08	02/16/08	KWG0801614	
trans-1,2-Dichloroethene	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
1,1-Dichloroethane	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
2-Butanone (MEK)	ND U	20	1	02/16/08	02/16/08	KWG0801614	
2,2-Dichloropropane	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
cis-1,2-Dichloroethene	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
Chloroform	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
Bromochloromethane	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
1,1,1-Trichloroethane (TCA)	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
1,1-Dichloropropene	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
Carbon Tetrachloride	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
1,2-Dichloroethane (EDC)	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
Benzene	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
Trichloroethene (TCE)	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
1,2-Dichloropropane	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
Bromodichloromethane	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
Dibromomethane	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
2-Hexanone	ND U	20	1	02/16/08	02/16/08	KWG0801614	
cis-1,3-Dichloropropene	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
Toluene	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
rans-1,3-Dichloropropene	ND U	0.50	î	02/16/08	02/16/08	KWG0801614	
,1,2-Trichloroethane	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
-Methyl-2-pentanone (MIBK)	ND U	20	1	02/16/08	02/16/08	KWG0801614	
,3-Dichloropropane	ND U	0.50	1	02/16/08		KWG0801614 KWG0801614	
			-		02/10/00	TZ 11 00001014	

Comments:

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Form 1A - Organic

Page 1 of 3

SuperSet Reference: RR84216

Analytical Results

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0801349

Date Collected: 02/12/2008 **Date Received:** 02/15/2008

Volatile Organic Compounds

Sample Name: Lab Code:

CSW-Duplicate K0801349-002

Extraction Method:

EPA 5030B

Analysis Method:

EPA 5030B 8260B Units: ug/L Basis: NA

Level: Low

Analyte Name	Result Q	MRL	Dilution Factor		Date	Extraction	
Tetrachloroethene (PCE)	ND U	0.50		Extracted			Note
Dibromochloromethane	ND U	0.50	1	02/16/08	02/16/08		
1,2-Dibromoethane (EDB)	ND U	2.0	1	02/16/08	02/16/08		
Chlorobenzene	ND U		1	02/16/08	02/16/08	KWG0801614	
1,1,1,2-Tetrachloroethane	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
Ethylbenzene	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
m,p-Xylenes		0.50	1	02/16/08	02/16/08	KWG0801614	
o-Xylene	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
Styrene	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
Bromoform	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
	ND U	0.50	1	02/16/08	02/16/08		
Isopropylbenzene	ND U	2.0	1	02/16/08	02/16/08	KWG0801614	
1,1,2,2-Tetrachloroethane	ND U	0.50	1	02/16/08	02/16/08	KWG0801614	
1,2,3-Trichloropropane	ND U	0.50				KWG0801614	
Bromobenzene	ND U	2.0	1	02/16/08	02/16/08	KWG0801614	
n-Propylbenzene	ND U	2.0	1	02/16/08	02/16/08	KWG0801614	
2-Chlorotoluene	ND U	2.0	1	02/16/08	02/16/08	KWG0801614	
4-Chlorotoluene	ND U	2.0	1	02/16/08	02/16/08	KWG0801614	
1,3,5-Trimethylbenzene	ND U		1	02/16/08	02/16/08	KWG0801614	
ert-Butylbenzene		2.0	1	02/16/08	02/16/08	KWG0801614	
,2,4-Trimethylbenzene	ND U	2.0	1	02/16/08	02/16/08	KWG0801614	
ec-Butylbenzene	ND U	2.0	1	02/16/08	02/16/08	KWG0801614	
,3-Dichlorobenzene	ND U	2.0	1	02/16/08	02/16/08	KWG0801614	
-Isopropyltoluene	ND U	0.50	1	02/16/08	02/16/08		
,4-Dichlorobenzene	ND U	2.0	î	02/16/08	02/16/08	KWG0801614	
	ND U	0.50	ī	02/16/08	02/16/08	KWG0801614	
-Butylbenzene	ND U	2.0	1			KWG0801614	
,2-Dichlorobenzene	ND U	0.50	Ì	02/16/08	02/16/08	KWG0801614	
2-Dibromo-3-chloropropane	ND U	2.0	_	02/16/08	02/16/08	KWG0801614	
2,4-Trichlorobenzene	ND U	2.0	1	02/16/08	02/16/08	KWG0801614	
2,3-Trichlorobenzene	ND U		1	02/16/08	02/16/08	KWG0801614	
aphthalene	ND U	2.0	1	02/16/08		KWG0801614	
exachlorobutadiene		2.0	1	02/16/08	02/16/08	KWG0801614	
3,5-Trichlorobenzene	ND U	2.0	I			KWG0801614	
	ND U	5.0	1			KWG0801614	

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Page 2 of 3

SuperSet Reference: RR84216

Analytical Results

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0801349

Date Collected: 02/12/2008

Date Received: 02/15/2008

Volatile Organic Compounds

Sample Name: Lab Code:

CSW-Duplicate

K0801349-002

Units: ug/L Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	95	82-125	02/16/08	Acceptable	
Toluene-d8	94	87-120	02/16/08	Acceptable	
4-Bromofluorobenzene	89	73-118	02/16/08	Acceptable	

Comments:

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Form 1A - Organic

09022

Page 3 of 3

SuperSet Reference:

Analytical Results

Client:

Environmental Chemistry Consulting Servi

Project: Sample Matrix: Kuhlman Electric

Water

Service Request: K0801349

Date Collected: NA Date Received: NA

Volatile Organic Compounds

Sample Name: Lab Code:

Method Blank KWG0801614-4

Extraction Method: Analysis Method:

EPA 5030B 8260B

Units: ug/L Basis: NA

Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND U	0.50	1	02/15/08	02/15/08	KWG0801614	11010
Chloromethane	ND U	0.50	1	02/15/08	02/15/08	KWG0801614	
Vinyl Chloride	ND U	0.50	1	02/15/08	02/15/08	KWG0801614	
Bromomethane Chloroethane	ND U	0.50	1	02/15/08	02/15/08	KWG0801614	
Trichlorofluoromethane	ND U	0.50	1	02/15/08	02/15/08	KWG0801614	
	ND U	0.50	1	02/15/08	02/15/08	KWG0801614	
Acetone	ND U	20	1	02/15/08	02/15/08	KWG0801614	
1,1-Dichloroethene Carbon Disulfide	ND U	0.50	1	02/15/08	02/15/08	KWG0801614	
	ND U	0.50	1	02/15/08	02/15/08	KWG0801614	
Methylene Chloride	ND U	2.0	1	02/15/08	02/15/08	KWG0801614	
trans-1,2-Dichloroethene 1,1-Dichloroethane	ND U	0.50	1	02/15/08	02/15/08	KWG0801614	
	ND U	0.50	1	02/15/08	02/15/08	KWG0801614	
2-Butanone (MEK)	ND U	20	1	02/15/08	02/15/08	KWG0801614	
2,2-Dichloropropane cis-1,2-Dichloroethene	ND U	0.50	1	02/15/08	02/15/08	KWG0801614	
	ND U	0.50	1	02/15/08	02/15/08	KWG0801614	
Chloroform	ND U	0.50	1	02/15/08	02/15/08	KWG0801614	
Bromochloromethane 1,1,1-Trichloroethane (TCA)	ND U	0.50	1	02/15/08	02/15/08	KWG0801614	
	ND U	0.50	1	02/15/08	02/15/08	KWG0801614	
1,1-Dichloropropene	ND U	0.50	1	02/15/08	02/15/08	KWG0801614	
Carbon Tetrachloride	ND U	0.50	1	02/15/08	02/15/08	KWG0801614	
1,2-Dichloroethane (EDC)	ND U	0.50	1	02/15/08	02/15/08	KWG0801614	
Benzene	ND U	0.50	1	02/15/08	02/15/08	KWG0801614	
Trichloroethene (TCE)	ND U	0.50	1	02/15/08	02/15/08	KWG0801614	
1,2-Dichloropropane	ND U	0.50	1	02/15/08	02/15/08	KWG0801614	
Bromodichloromethane	ND U	0.50	1	02/15/08	02/15/08	KWG0801614	
Dibromomethane 2-Hexanone	ND U	0.50	1	02/15/08	02/15/08	KWG0801614	
	ND U	20	1	02/15/08	02/15/08	KWG0801614	
cis-1,3-Dichloropropene	ND U	0.50	1	02/15/08	02/15/08	KWG0801614	
Toluene	ND U	0.50	1	02/15/08		KWG0801614	
trans-1,3-Dichloropropene	ND U	0.50	1	02/15/08		KWG0801614	
1,1,2-Trichloroethane	ND U	0.50	1	02/15/08		KWG0801614	
4-Methyl-2-pentanone (MIBK)	ND U	20	1			KWG0801614	
1,3-Dichloropropane	ND U	0.50	1			KWG0801614 KWG0801614	
				, *0,00	V2/13/00	1711 00001014	

Comments:

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Form 1A - Organic

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Page 1 of 3

SuperSet Reference:

Analytical Results

Client:

Environmental Chemistry Consulting Servi

Project: Sample Matrix:

Kuhlman Electric

Water

Service Request: K0801349

Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Lab Code:

Method Blank

Extraction Method:

KWG0801614-4

Analysis Method:

EPA 5030B 8260B Units: ug/L Basis: NA

Level: Low

Analyte Name	Result Q	MRL	Dilutior Factor	Date Extracted	Date	Extraction	
Tetrachloroethene (PCE)	ND U	0.50	1				Note
Dibromochloromethane	ND U	0.50	1	02/15/08	, 20,00		
1,2-Dibromoethane (EDB)	ND U	2.0	1	02/15/08 02/15/08			
Chlorobenzene	ND U	0.50			02/15/08		
1,1,1,2-Tetrachloroethane	ND U	0.50	1	02/15/08	02/15/08		
Ethylbenzene	ND U	0.50	1	02/15/08	02/15/08		
m,p-Xylenes	ND U		1	02/15/08	02/15/08	KWG0801614	
o-Xylene	ND U	0.50	1	02/15/08	02/15/08	KWG0801614	
Styrene	ND U	0.50 0.50	1	02/15/08	02/15/08	KWG0801614	
Bromoform			1	02/15/08	02/15/08	KWG0801614	
Isopropylbenzene	ND U	0.50	1	02/15/08	02/15/08	KWG0801614	
1,1,2,2-Tetrachloroethane	ND U ND U	2.0	1	02/15/08	02/15/08	KWG0801614	
1,2,3-Trichloropropane		0.50	1	02/15/08	02/15/08	KWG0801614 KWG0801614	
Bromobenzene	ND U	0.50	1	02/15/08	02/15/08		
n-Propylbenzene	ND U	2.0	1	02/15/08	02/15/08	KWG0801614	
	ND U	2.0	î	02/15/08		KWG0801614	
2-Chlorotoluene	ND U	2.0	1		02/15/08	KWG0801614	
4-Chlorotoluene	ND U	2.0		02/15/08	02/15/08	KWG0801614	
1,3,5-Trimethylbenzene	ND U	2.0	1 1	02/15/08	02/15/08	KWG0801614	
tert-Butylbenzene	ND U	2.0		02/15/08	02/15/08	KWG0801614	
1,2,4-Trimethylbenzene	ND U	2.0	1	02/15/08	02/15/08	KWG0801614	
sec-Butylbenzene	ND U	2.0	1	02/15/08	02/15/08	KWG0801614	
1,3-Dichlorobenzene	ND U		1	02/15/08	02/15/08	KWG0801614	
4-Isopropyltoluene	ND U	0.50	1	02/15/08	02/15/08	KWG0801614	
,4-Dichlorobenzene	ND U	2.0	1	02/15/08	02/15/08	KWG0801614	
n-Butylbenzene		0.50	1	02/15/08		KWG0801614	
,2-Dichlorobenzene	ND U	2.0	1	02/15/08			
,2-Dibromo-3-chloropropane	ND U	0.50	1	02/15/08		KWG0801614	
	ND U	2.0	1	02/15/08		KWG0801614	
,2,4-Trichlorobenzene	ND U	2.0	1			KWG0801614	
,2,3-Trichlorobenzene Japhthalene	ND U	2.0				KWG0801614	
	ND U	2.0	1 1	0		KWG0801614	
exachlorobutadiene	ND U	2.0				KWG0801614	
3,5-Trichlorobenzene	ND U	5.0			02/15/08	KWG0801614	
	-	5.0	1	02/15/08	02/15/08	KWG0801614	

Comments:

09024

SuperSet Reference:

Analytical Results

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0801349

Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name:

Method Blank

Units: ug/L Basis: NA

Lab Code:

KWG0801614-4

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
Dibromofluoromethane	92	82-125	02/15/08	Acceptable	
Toluene-d8	98	87-120	02/15/08	Acceptable	
4-Bromofluorobenzene	89	73-118	02/15/08	Acceptable	

Comments:

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09025

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SuperSet Reference: RR84216

QA/QC Report

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Surrogate Recovery Summary Volatile Organic Compounds

Extraction Method: EPA 5030B

Analysis Method:

8260B

Service Request: K0801349

Units: PERCENT

Level: Low

Sample Name	Lab Code	6 4	~ -	_
	Lab Code	Sur1	<u>Sur2</u>	<u>Sur3</u>
CSW-WA1-021	K0801349-001	94	93	89
CSW-Duplicate	K0801349-002	95	94	89
Method Blank	KWG0801614-4	92	98	89
Batch QC	K0801297-001	92	95	89
Batch QCMS	KWG0801614-1	93	96	96
Batch QCDMS	KWG0801614-2	92	96	97
Lab Control Sample	KWG0801614-3	92	96	95

Surrogate Recovery Control Limits (%)

Sur1 =	Dibromofluoromethane	82-125
		02-123
Sui 2 -	Toluene-d8	87-120
S112 =	4 D	07-120
Sui3 -	4-Bromofluorobenzene	73-118
		75-116

Results flagged with an asterisk (*) indicate values outside control criteria. Results flagged with a pound (#) indicate the control criteria is not applicable.

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Form 2A - Organic

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Page 1 of 1

SuperSet Reference: RR84216

QA/QC Report

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0801349

Date Extracted: 02/15/2008 **Date Analyzed:** 02/15/2008

Matrix Spike/Duplicate Matrix Spike Summary Volatile Organic Compounds

Sample Name: Lab Code:

Extraction Method:

Analysis Method:

Batch QC

K0801297-001

EPA 5030B

8260B

Units: ug/L

Basis: NA

Level: Low

Extraction Lot: KWG0801614

Batch QCMS KWG0801614-1

Batch QCDMS ZWC0001614

	Sample	Matrix Spike			KWG0801614-2 Duplicate Matrix Spike			%Rec		DDD
Analyte Name	Result	Result	Expected	%Rec	Result	Expected	%Rec	Limits	RPD	RPD Limit
1,1-Dichloroethene	ND	13.1	10.0	131	12.3	10.0	123	66-142	7	30
Benzene	ND	10.3	10.0	103	9.85	10.0	99	71-126	1	
Trichloroethene (TCE)	ND	10.6	10.0	106	10.0	10.0	100		4	30
Toluene	ND	10.1	10.0	101	9,57	10.0	96	61-130	6	30
Chlorobenzene	ND	9.58	10.0	96	9.31	10.0		68-125	5	30
1,2-Dichlorobenzene	ND	9.42	10.0	94	9.08		93	74-122	3	30
Naphthalene	, ND					10.0	91	74-116	4	30
1 aprimation	ND	10.3	10.0	103	10.5	10.0	105	50-141	1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

09027

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Form 3A - Organic

Page 1 of 1

SuperSet Reference: RR84216

QA/QC Report

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0801349

Date Extracted: 02/15/2008 **Date Analyzed:** 02/15/2008

Lab Control Spike Summary **Volatile Organic Compounds**

Extraction Method: Analysis Method:

EPA 5030B 8260B

Units: ug/L

Basis: NA

Level: Low

Extraction Lot: KWG0801614

Lab Control Sample KWG0801614-3

Analyte Name Result Expected %Rec Limits Dichlorodifluoromethane 9.96 10.0 100 24-160 Chloromethane 8.98 10.0 90 41-141 Vinyl Chloride 9.75 10.0 98 60-139 Bromomethane 7.11 10.0 71 32-153 Chloroethane 9.85 10.0 99 66-134 Trichlorofluoromethane 9.90 10.0 99 54-133 Acetone 50.7 50.0 101 57-133 1,1-Dichloroethene 12.6 10.0 126 72-127
Chloromethane 8.98 10.0 90 41-141 Vinyl Chloride 9.75 10.0 98 60-139 Bromomethane 7.11 10.0 71 32-153 Chloroethane 9.85 10.0 99 66-134 Trichlorofluoromethane 9.90 10.0 99 54-133 Acetone 50.7 50.0 101 57-133 1,1-Dichloroethene 12.6 10.0 136 72,137
Chloromethane 8.98 10.0 90 41-141 Vinyl Chloride 9.75 10.0 98 60-139 Bromomethane 7.11 10.0 71 32-153 Chloroethane 9.85 10.0 99 66-134 Trichlorofluoromethane 9.90 10.0 99 54-133 Acetone 50.7 50.0 101 57-133 1,1-Dichloroethene 12.6 10.0 126 72,137
Vinyl Chloride 9.75 10.0 98 60-139 Bromomethane 7.11 10.0 71 32-153 Chloroethane 9.85 10.0 99 66-134 Trichlorofluoromethane 9.90 10.0 99 54-133 Acetone 50.7 50.0 101 57-133 1,1-Dichloroethene 12.6 10.0 136 72,137
Bromomethane 7.11 10.0 71 32-153 Chloroethane 9.85 10.0 99 66-134 Trichlorofluoromethane 9.90 10.0 99 54-133 Acetone 50.7 50.0 101 57-133 1,1-Dichloroethene 12.6 10.0 136 72,137
Chloroethane 9.85 10.0 99 66-134 Trichlorofluoromethane 9.90 10.0 99 54-133 Acetone 50.7 50.0 101 57-133 1,1-Dichloroethene 12.6 10.0 126 72, 137
Trichlorofluoromethane 9.90 10.0 99 54-133 Acetone 50.7 50.0 101 57-133 1,1-Dichloroethene 12.6 10.0 136 73-137
Acetone 50.7 50.0 101 57-133 1,1-Dichloroethene 12.6 10.0 126 73-137
1,1-Dichloroethene 12.6 10.0 126 72.127
Carbon Disulfide
Methylene Chlorida
trans-12-Dichloroothone
1 1-Dichloroethano 10.0 103 /3-118
2-Butanana (MEK) 10.4 /4-119
2.2-Dichloropropos
cis-1.2-Dichloroothous
Chloroform 10.0 103 /8-121
Promochlane v. (1) 10.5 10.0 105 73-117
1.1.1 Triphlorentham (TCA)
1,1,1-Trichloroethane (TCA) 10.9 10.0 109 65-130
1,1-Dictioropropene 10.2 10.0 102 71-121
Carbon Tetrachloride 11.0 10.0 110 (6.120)
1,2-Dichloroethane (EDC) 10.5 10.0 10.5 67, 12.5
Benzene 10.2 10.0 102 74.116
Inchloroethene (TCE) 10.4 10.0 10.4 72.117
1,2-Dichloropropane 10.2 10.0 102 73.116
Bromodichloromethane 10.9 10.0 100 76.123
Dibromomethane 11.0 10.0 110 73.110
2-Hexanone 55.2 50.0 110 40.122
xis-1,3-Dichloropropene 10.6 10.0 106 (6.135)
Toluene 9 84 10 0 08 71 117
rans-1 3-Dichloropropers
,1,2-Trichloroethane 10.5 10.0 105 70.112
-Methyl-2-pentanone (MTRK) 51.5 70.0 105 /8-118
3-Dichloropropage 10.2 57-132
etrachloroethene (PCE)
bibromochloromethane 11.0 10.0 100 /2-11/
11.0 10.0 110 76-125

Results flagged with an asterisk (*) indicate values outside control criteria.

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Form 3C - Organic

Page 1 of 2

QA/QC Report

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0801349

Date Extracted: 02/15/2008

Date Analyzed: 02/15/2008

Lab Control Spike Summary Volatile Organic Compounds

Extraction Method: Analysis Method:

EPA 5030B

8260B

Units: ug/L

Basis: NA

Level: Low

Extraction Lot: KWG0801614

Lab Control Sample KWG0801614-3

	Lab Control Spike			0/ D
Analyte Name	Result	Expected	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	10.4	10.0	104	75 117
Chlorobenzene	9.21	10.0	92	75-117
1,1,1,2-Tetrachloroethane	10.4	10.0	104	81-112
Ethylbenzene	9.89	10.0	99	76-121
m,p-Xylenes	20.0	20.0		77-119
o-Xylene	9.83	10.0	100	76-123
Styrene	10.4	10.0	98	75-118
Bromoform	11.6	10.0	104	80-125
Isopropylbenzene	9.22		116	65-133
1,1,2,2-Tetrachloroethane	10.5	10.0	92	66-107
1,2,3-Trichloropropane	10.5	10.0	105	68-119
Bromobenzene	9.36	10.0	108	73-117
n-Propylbenzene		10.0	94	77-107
2-Chlorotoluene	9.75	10.0	98	70-122
4-Chlorotoluene	9.89	10.0	99	71-121
1,3,5-Trimethylbenzene	9.65	10.0	97	69-121
tert-Butylbenzene	9.66	10.0	97	71-121
1,2,4-Trimethylbenzene	9.68	10.0	97	71-118
sec-Butylbenzene	9.86	10.0	99	73-122
1,3-Dichlorobenzene	10.4	10.0	104	70-131
4-Isopropyltoluene	9.17	10.0	92	79-109
1,4-Dichlorobenzene	9.32	10.0	93	62-124
	9.02	10.0	90	77-109
n-Butylbenzene	8.62	10.0	86	57-130
1,2-Dichlorobenzene	9.33	10.0	93	80-108
1,2-Dibromo-3-chloropropane	9.60	10.0	96	54-123
1,2,4-Trichlorobenzene	8.96	10.0	90	64-120
1,2,3-Trichlorobenzene	9.27	10.0	93	65-118
Naphthalene	10.6		106	49-135
Hexachlorobutadiene	8.63	10.0	86	57-132
1,3,5-Trichlorobenzene	36.9	40.0	92	51-138

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Form 3C - Organic

Page 2 of 2

SuperSet Reference: RR84216 1,4-Dioxane by GC/MS

Analytical Results

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0801349

Date Collected: 02/12/2008

Date Received: 02/15/2008

1,4-Dioxane by GC/MS

Sample Name:

CSW-WA1-021

Lab Code:

K0801349-001

Extraction Method: EPA 3510C

Units: ug/L Basis: NA

Level: Low

Analysis Method:

8270C SIM

			Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
1,4-Dioxane	0.77	0.50	1	02/19/08	03/07/08	KWG0801558	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note	
1,4-Dioxane-d8	61	31-117	03/07/08	Acceptable	

Comments:

Analytical Results

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0801349

Date Collected: 02/12/2008

Date Received: 02/15/2008

1,4-Dioxane by GC/MS

Sample Name:

CSW-Duplicate

Lab Code:

K0801349-002

Extraction Method:

EPA 3510C

Units: ug/L

Basis: NA

Level: Low

Analysis Method:

8270C SIM

Dilution Date Date **Extraction Analyte Name** Result Q **MRL Factor** Analyzed Lot Note Extracted 1,4-Dioxane 0.85 0.50 KWG0801558 1 02/19/08 03/07/08

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	67	31-117	03/07/08	Acceptable

Comments:

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Merged

Form 1A - Organic

09032

Page 1 of

RR84725 SuperSet Reference:

Analytical Results

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0801349

Date Collected: NA

Date Received: NA

1,4-Dioxane by GC/MS

Sample Name:

Method Blank

Lab Code:

KWG0801558-3

Extraction Method: EPA 3510C

Units: ug/L Basis: NA

Analysis Method:

8270C SIM

Level: Low

			Dilution	Date	Date	Extraction	
Analyte Name	Result Q	MRL	Factor	Extracted	Analyzed	Lot	Note
1,4-Dioxane	ND U	0.50	1	02/19/08	03/07/08	KWG0801558	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,4-Dioxane-d8	63	31-117	03/07/08	Acceptable

Comments:

Merged

QA/QC Report

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0801349

Surrogate Recovery Summary 1,4-Dioxane by GC/MS

Extraction Method: Analysis Method:

EPA 3510C

8270C SIM

Units: PERCENT

Level: Low

Sample Name	Lab Code	<u>Sur1</u>
CSW-WA1-021	K0801349-001	61
CSW-Duplicate	K0801349-002	67
Method Blank	KWG0801558-3	63
Lab Control Sample	KWG0801558-1	65
Duplicate Lab Control Sample	KWG0801558-2	64

Surrogate Recovery Control Limits (%)

Sur1 = 1,4-Dioxane-d8

31-117

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

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Form 2A - Organic

19034

Page 1 of 1

SuperSet Reference: RR84725

QA/QC Report

Client:

Environmental Chemistry Consulting Servi

Project:

Kuhlman Electric

Sample Matrix:

Water

Service Request: K0801349

Date Extracted: 02/19/2008

Date Analyzed: 03/07/2008

Lab Control Spike/Duplicate Lab Control Spike Summary 1,4-Dioxane by GC/MS

Extraction Method: EPA 3510C

Analysis Method:

8270C SIM

Units: ug/L Basis: NA

Level: Low

Extraction Lot: KWG0801558

Lab Control Sample

KWG0801558-1

Duplicate Lab Control Sample

KWG0801558-2

	Lab	Lab Control Spike			Duplicate Lab Control Spike				RPD
Analyte Name	Result	Expected	%Rec	Result	Expected	%Rec	%Rec Limits	RPD	Limit
1,4-Dioxane	17.2	25.0	69	17.1	25.0	68	46-97	1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Form 3C - Organic

Page 1 of 1

RR84725 SuperSet Reference: