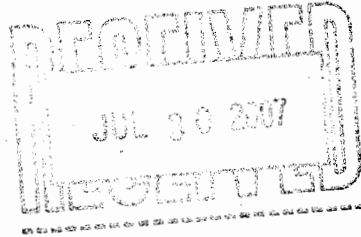


July 25, 2007

Robert Martin
Martin & Slagle, LLC
P.O. Box 1023
Black Mountain, NC 28711



Dear Mr. Martin,

Enclosed is the Technical Memorandum for work completed at the Kuhlman Electric Corporation (KEC) facility in Crystal Springs, Mississippi during the month of September. If you have any questions concerning this information, please give me a call.

Sincerely,

Kari Ann Gillian
for Richard Johnson

Enclosure

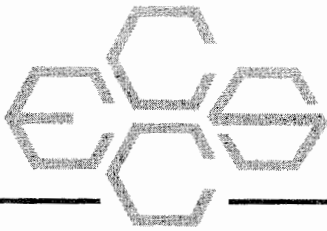
Environmental Chemistry Consulting Services, Inc.

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Technical Memorandum

Kuhlman Electric Corporation (KEC)

Crystal Springs, Mississippi



TECHNICAL MEMORANDUM

July 25, 2007

To: Robert Martin
Martin Slagle Inc.

From: Richard Johnson *RJ*
ECCS, Inc.

Re: Field Analytical Methods – QC Summary
Kuhlman Electric Corporation (KEC) Facility
Crystal Springs, Mississippi

INTRODUCTION

This Technical Memorandum provides documentation of the field analytical test methods used to analyze soil and water samples collected from KEP-GW Property area during September 2005 during an accelerated site investigation episode around the Kuhlman Electric Corporation (KEC) facility in Crystal Springs, Mississippi. Soil and water samples were analyzed for polychlorinated biphenyls (PCBs) and chlorinated benzenes by gas chromatography (GC) in accordance with ECCS's Polychlorinated Biphenyl (PCB) Mini Extraction Screening Procedure. A summary of test results is provided in Table 1. A summary of method blanks, laboratory control samples and matrix spike/matrix spike duplicate data is provided in Table 2.

In addition copies of the chain of custody sheets and shipping sheets can be found in appendix A.

A) Chain of custody sheets

The PCB mini-extraction procedure is based on the existing EPA SW846 methods 8082/8141. The procedure incorporates all the quality control rigors of the full 8082/8141 methods including quantification based on 6-point calibration with continuing calibration verification, surrogate method performance monitoring, method blanks, laboratory control samples (LCS), and matrix spike/matrix spike (MS/MSD) duplicate samples. As such, you should consider these test results as comparable to what you would get from a fixed-based laboratory using the more-widely accepted extraction procedure.

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The primary project objective of the sampling and testing episode was to delineate the PCB contamination at and around the site using the accelerated site characterization approach. The mobile laboratory was required to provide data as quickly as possible to keep the accelerated site investigation process on track while trying to maintain a goal of level three data quality.

CASE NARRATIVE

During the episode, all samples collected were analyzed. To maintain rapid turnaround and to meet the project objective, three GCs were operated on a nearly continuous basis.

Quality control including proper calibration, continuing calibration verification, surrogates, method blanks, laboratory control samples and matrix spike/matrix spike duplicate samples was performed at the method-specified intervals. Overall quality of the data is very good. The following quality related issues should be noted:

1. All surrogate recoveries were within acceptable ranges with the exception of seven samples (W1370, W1373, W1375-W1376, W1409, W1411 and W1412.) Method states that 1 of the 2 required surrogates must be within range.
2. All LCS recoveries were within acceptable ranges. See Table 2.
3. All MS/MSD recoveries were within acceptable ranges. Percent repeatability was also within acceptable ranges. See Table 2.
4. Since electron capture of detectors tend to have a very narrow linear range, many sample extracts required dilution. Dilutions were accurately done.

METHOD SUMMARY

This method employs a mini-extraction procedure and gas chromatography analysis for the detection of PCBs and chlorinated benzenes. Reporting limits are provided in the results Tables. Four grams of sample are dried with anhydrous sodium sulfate and extracted with eight mLs of 80/20 iso-octane/acetone. The extract is then analyzed by Gas Chromatography-Electron Capture Detector (GC-ECD).

Procedure

1. Standards Preparation - Primary standards are prepared from a solution purchased from various vendors at Certified concentrations. Stock standards are prepared in suitable solvents and stored in a freezer when not in use. Secondary standards are prepared in 80/20 iso-octane/acetone and stored in a freezer when not in use. Standard curve mixes for this project was prepared at six concentrations: PCBs – 0.05, 0.10, 0.20, 0.50, 1.0 and 2.0 ug/m; chlorinated benzenes – 0.005, 0.01, 0.02, 0.05, 0.10 and 0.20 ug/ml.

2. Sample Preparation - SOILS: Each sample or quality control sample is prepared in identical fashion. Approximately four grams of silica sand (blanks and control spikes) or sample is transferred into a clean scintillation vial. Ten grams of anhydrous sodium sulfate are added to the vial and mixed well. Extra sodium sulfate is added when necessary to assure the sample is dried. A surrogate, spike compound mix (if necessary) and eight mLs of 80/20 iso-octane/acetone are added to the vial. The vial is shaken for 30 seconds, allowed to settle for 2 minutes, shaken again for 30 seconds, and allowed to settle for 10 minutes. An aliquot of the extract is transferred to an autosampler vial for injection into the GC-ECD.

3. WATER Samples: 200 grams of water was weighed into a clean jar containing 50 grams of sodium chloride. The samples were spiked with a surrogate in addition the LCS/MS/MSD were spiked with PCB's and chlorinated benzenes. Added 10 ml of isooctane to each and shake 3 times for 2 minutes each time. Samples were allowed to settle for approximately 5 minutes between each shake. Isooctane was decanted into a scintillation vial and then an aliquot was transferred to an autosampler vial. Then extracts were injected into a GC-ECD.

4. GC-ECD Analysis - A sample aliquot is injected into an HP5890 GC with an ECD equipped with an HP ChemStation for data processing. PCBs were identified by matching retention times of standards to the same retention time in the sample. Regression analysis was performed on each of the selected peak's height verses concentration of the standard using a LN/LN transformed linear regression. For PCBs nine peaks were selected for quantification. The ug/mL value for each peak was added together and divided by the number of peaks selected to obtain the total PCB ug/mL result. If interference occurred at any of the peaks, these peaks were not included in the total, and the divisor was reduced accordingly.

5. Quality Control - Quality control consisted of the following items:

- Continuing calibration standards analyzed every ten samples or less and at the end of a run.
- Blank and LCS samples analyzed every twenty sample or less with a minimum of one per day.
- MS/MSD samples analyzed every twenty samples or less with a minimum of one per day.
- Information is documented in logbook 45 and September run sheets.

6. Instrument Conditions - Two HP5890 gas chromatographs were equipped with RTX-35 capillary columns. Each system had a Leap Technologies A200S auto-sampler and an HP ChemStation for data handling.

Table 1

Sample Results – September

Ta
Kuhlman Electric
Crystal Springs, Mississippi
Chlorinated Benzenes Detected in ug/L

Field Lab Sample ID	Sample ID	Depth	Date Collected	Time Collected	Date Analyzed	Field Laboratory										Surrogate DCBP(%)	
						1,3,5-Trichloro-benzene	1,2,4-Trichloro-benzene	1,2,3-Trichloro-benzene	1,2,3,4,5-Tetrachloro-benzene	1,2,3,4-Tetrachloro-benzene	Penta-chloro-benzene	Hexa-chloro-benzene	Surrogate TCMX(%)				
W1369	KEP-GW-006-004	-	18-Sep-05	15:09	20-Sep-05	< 1.0	< 1.0	< 1.0	< 0.40	< 0.40	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	74.6	73.3
W1370	KEP-GW-007-004	-	18-Sep-05	15:22	20-Sep-05	< 1.0	< 1.0	< 1.0	< 0.40	< 0.40	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	75.6	41.2
W1371	KEP-GW-005-004	-	18-Sep-05	15:45	20-Sep-05	< 1.0	< 1.0	< 1.0	< 0.40	< 0.40	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	70.8	64.7
W1372	KEP-FB-010	-	18-Sep-05	15:46	20-Sep-05	< 1.0	< 1.0	< 1.0	< 0.40	< 0.40	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	76.5	62.8
W1373	KEP-GW-002-004	-	18-Sep-05	16:08	20-Sep-05	< 1.0	< 1.0	< 1.0	< 0.40	< 0.40	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	67.6	49.1
W1374	KEP-GW-004-004	-	18-Sep-05	16:45	20-Sep-05	< 1.0	< 1.0	< 1.0	< 0.40	< 0.40	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	79.7	76.3
W1375	KEP-GW-009-002	-	18-Sep-05	17:03	20-Sep-05	< 1.0	< 1.0	< 1.0	< 0.40	< 0.40	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	73.3	35.3
W1376	KEP-Duplicate	-	18-Sep-05	-	20-Sep-05	< 1.0	< 1.0	< 1.0	< 0.40	< 0.40	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	85.9	48.0
W1409	KEP-GW-008-004	-	22-Sep-05	17:25	22-Sep-05	< 1.0	< 1.0	< 1.0	< 0.40	< 0.40	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	77.2	13.5 (a)
W1411	KEP-GW-003-004	-	23-Sep-05	10:25	23-Sep-05	< 1.0	< 1.0	< 1.0	< 0.40	< 0.40	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	77.2	21.3
W1412	KEP-Duplicate	-	23-Sep-05	-	23-Sep-05	< 1.0	< 1.0	< 1.0	< 0.40	< 0.40	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	84.4	31.3

(a) = Sample re-extracted and analyzed on 9/23/05 resulting in same low surrogate.

Table 2

QC Samples - September

Table 2
QC Results

Lab # associated with qc samples: W1369 through W1376

	Matrix Spike W1369	Matrix Spike Duplicate W1369	Blank	LCS
--	--------------------------	---------------------------------------	-------	-----

Date Analyzed:	9/20/05	9/20/05	9/20/05	9/19/05
----------------	---------	---------	---------	---------

Compound	% Rec		% Rec		% RPD	ug/L	% Rec
1,3,5-Trichlorobenzene	87.0		85.4		2%	< 1.0	71.7
1,2,4-Trichlorobenzene	84.6		83.8		1%	< 1.0	77.8
1,2,3-Trichlorobenzene	87.5		86.9		1%	< 1.0	77.6
1,2,3,5- & 1,2,4,5-Tetrachlorobenzene	93.5		93.4		0%	< 0.40	80.9
1,2,3,4-Tetrachlorobenzene	114		114		0%	< 0.40	80.5
Pentachlorobenzene	115		116		-1%	< 0.20	83.1
Hexachlorobenzene	98.1		97.6		1%	< 0.20	90.0

Table 2
QC Results

Lab # associated with qc samples: W1409

	Matrix Spike W1404	Matrix Spike Duplicate W1404	Blank	LCS
Date Analyzed:	9/22/05	9/22/05	9/22/05	9/22/05

Compound	% Rec		% Rec		% RPD	ug/L	% Rec
1,3,5-Trichlorobenzene	81.8		79.7		3%	< 1.0	82.6
1,2,4-Trichlorobenzene	90.5		86.0		5%	< 1.0	90.9
1,2,3-Trichlorobenzene	94.8		89.1		6%	< 1.0	91.1
1,2,3,5- & 1,2,4,5-Tetrachlorobenzene	90.8		85.4		6%	< 0.40	90.0
1,2,3,4-Tetrachlorobenzene	92.2		85.6		7%	< 0.40	90.4
Pentachlorobenzene	93.0		86.6		7%	< 0.20	91.2
Hexachlorobenzene	98.3		92.6		6%	< 0.20	98.8

Table 2
QC Results

Lab # associated with qc samples: W1411 through W1412

	Matrix	Matrix		
	Spike	Spike		
	W1414	Duplicate	Blank	LCS
		W1414		

Date Analyzed:	9/23/05	9/23/05	9/23/05	9/23/05
----------------	---------	---------	---------	---------

Compound	% Rec		% Rec		% RPD	ug/L	% Rec
1,3,5-Trichlorobenzene	77.6		79.8		-3%	< 1.0	86.2
1,2,4-Trichlorobenzene	85.7		88.7		-3%	< 1.0	94.6
1,2,3-Trichlorobenzene	88.0		91.2		-4%	< 1.0	95.5
1,2,3,5- & 1,2,4,5-Tetrachlorobenzene	87.7		91.0		-4%	< 0.40	95.2
1,2,3,4-Tetrachlorobenzene	89.7		93.8		-4%	< 0.40	95.9
Pentachlorobenzene	89.2		94.4		-6%	< 0.20	96.7
Hexachlorobenzene	93.7		98.0		-4%	< 0.20	102

Appendix A

Chain of Custody Sheets for mobile lab



**Environmental Chemistry
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Madison, WI 53718
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CHAIN OF CUSTODY

No. **013281** *

Page 1 of 1

Turn Around (circle one) Normal Rush
Report Due:

Project Number: _____
 Project Name: **KUHLMAN ELECTRIC**
 Project Location: **CRYSTAL SPRINGS**
 Sampled By (Print): **Robert Martin**

Mail Report To: _____
 Company: **MARTIN & SIAUCI**
 Address: _____

Sample Description	Collection		Matrix	Total Bottles	Preserv*	Analysis Requested	Comments	Laboratory Number
	Date	Time						
KEP-6W-006-004	9/18/05	1509	W	4	A/B	POF206i / P260B		W1369
KEP-6W-007-004	9/18/05	1522	W	4	A/B	POF206i / P260B		W1370
KEP-6W-005-004	9/18/05	1545	W	4	A/B	POF206i / P260B		W1371
KEP-FB-010	9/18/05	1546	W	4	A/B	POF206i / P260B		W1372
KEP-6W-002-004	9/18/05	1608	W	9	A/B	POF206i / P260B		W1373
KEP-6W-004-004	9/18/05	1645	W	4	A/B	POF206i / P260B		W1374
KEP-6W-009-002	9/18/05	1703	W	4	A/B	POF206i / P260B		W1375
Duplicate	9/19/05	—	W	9	A/B	POF206i / P260B		W1376
<i>[Signature]</i>								

*Preservation Code
 A=None B=HCL C=H2SO4
 D=HNO3 E=EnCore F=Methanol
 G=NaOH O=Other(Indicate)

Relinquished By: **Robert Martin** Date/Time: **9/18/05 1731**
 Relinquished By: _____ Date/Time: _____

Received By: *[Signature]* Date/Time: **9/19/05 1731**
 Received By: _____ Date/Time: _____

Receipt Temp: _____
 Temp Blank Y N



**Environmental Chemistry
Consulting Services, Inc.**

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Madison, WI 53718
Phone 608-221-8700 FAX 608-221-4889

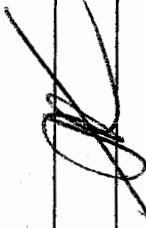
CHAIN OF CUSTODY

No. **013300** *

Page 1 of 1

Turn Around (circle one) Normal Rush
Report Due:

Project Number: _____
Project Name: SUTHERMAN ELECTRIC
Project Location: CRYSTAL SPRINGS
Sampled By (Print): Robert Martin
Mail Report To: _____
Company: MAKTRON + SUTHER
Address: _____

Sample Description	Collection		Matrix	Total Bottles	Preserv*	Analysis Requested	Depth Comments	Laboratory Number
	Date	Time						
CSP-WP-030-004	9/22/05	11:18	W	4	A/B	80P200i / P200B	83.25	W1403
CSP-WP-030-005	9/22/05	12:52	W	4	A/B	80P200i / P200B	88.25	W1404
CSP-WP-030-006	9/22/05	14:46	W	4	A/B	80P200i / P200B	93.25	W1405
CSP-WP-030-007	9/22/05	15:35	W	4	A/B	80P200i / P200B	98.25	W1406
CSP-WP-030-008	9/22/05	16:32	W	4	A/B	80P200i / P200B	103.25	W1407
CSP-WP-030-009	9/22/05	17:23	W	4	A/B	80P200i / P200B	107.2	W1408
KEP-GW-008-004	9/22/05	17:25	W	4	A/B	80P200i / P200B	—	W1409
								
*Preservation Code			Relinquished By: <u>Robert Martin</u>			Date/Time: <u>9/22/05 1809</u>		
A=None B=HCL C=H2SO4			Relinquished By:			Date/Time:		
D=HNO3 E=EnCore F=Methanol			Intact/Not Intact			Received By: <u>[Signature]</u>		
G=NaOH O=Other(Indicate)			Seal #s			Date/Time: <u>9/22/05 1809</u>		
Custody Seal: Present/Absent			Temp Blank Y N			Date/Time:		
Shipped Via:			Receipt Temp:					

WHITE - REPORT COPY YELLOW - LABORATORY COPY PINK - SAMPLER/SUBMITTER



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Madison, WI 53718
Phone 608-221-8700 FAX 608-221-4889

CHAIN OF CUSTODY

No. 013301

Page 1 of 1


Turn Around (circle one) Normal Rush
Report Due:

Project Number: _____
 Project Name: **KUHMAN ELECTRIC**
 Project Location: **CANTON SPRINGS**
 Sampled By (Print): **Robert Martin**

Mail Report To:
 Company: **MARTIN + SLOCCE**
 Address: _____

Invoice To:
 Company: _____
 Address: _____

P.O. No.: _____ Quote No.: _____

Sample Description	Collection		Matrix	Total Bottles	Preserv*	Analysis Requested	Laboratory Number
	Date	Time					
STONE ENV WATER	9/23/05	0835	W	2	B	POP208	W1410
KEP-GW-003-004	9/23/05	1025	W	8	A/B	POP208i / P2608	W1411 W1410
DUPLICATE	9/23/05	—	W	8	A/B	POP208i / P2608	W1412
EQUIP RINSEATE	9/23/05	1245	W	4	A/B	POP208i / P2608	W1413
CSP-WP-031-001	9/23/05	1520	W	4	A/B	POP208i / P2608	W1414
CSP-WP-031-002	9/23/05	1615	W	4	A/B	POP208i / P2608	W1415
							

*Preservation Code
 A=None B=HCL C=H2SO4
 D=HNO3 E=EnCore F=Methanol
 G=NaOH O=Other(Indicate)

Relinquished By: **Robert Martin** Date/Time: **9/23/05 1015**
 Relinquished By: _____ Date/Time: _____

Received By: **Key Global** Date/Time: **9/23/05 1815**
 Received By: _____ Date/Time: _____

Custody Seal: Present/Absent
 Intact/Not Intact
 Receipt Temp: _____
 Temp Blank Y N

Shipped Via: _____