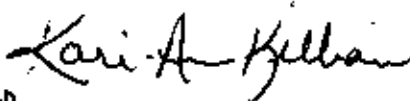

July 25, 2008

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

Dear Mr. Martin,

Enclosed is the Technical Memorandum for VOC work recently performed at the Kuhlman Electric Corporation (KEC) facility in Crystal Springs, MS. If you have any questions concerning this information, give me a call.

Sincerely,



for Joseph Kubale

Enclosure

Environmental Chemistry Consulting Services, Inc.

2525 Advance Road • Madison, WI 53718 • Phone (608) 221-8700 • FAX (608) 221-4889

Technical Memorandum

Kuhlman Electric Corporation (KEC)

Crystal Springs, Mississippi

TECHNICAL MEMORANDUM

July 25, 2008

To: Robert Martin
Martin and Slagle

From: Joseph Kubale *JK*
ECCS

Re: Analytical Methods
Volatile Organic Compounds (VOC) , 1,4-Dioxane
Kuhlman Electric Corporation (KEC)
Crystal Springs, MS

Introduction

This Technical Memorandum provides documentation of the analytical test methods used to analyze water samples collected in June 2008 near the Kuhlman Electric Corporation (KEC) facility in Crystal Springs, MS. The samples were analyzed by purge and trap GC/MSD for the VOCs listed below and by direct injection GC/MSD/SIM for 1,4-Dioxane.

Narrative

Waters

Water samples were analyzed for VOCs directly by purge and trap GC/MSD and for 1,4-Dioxane by direct injection GC/MSD/SIM.

The following report limits were used for water samples. The reporting limit units are in ug/L.

	Purge and Trap GC/MSD
Dichlorodifluoromethane	1.0
Chloromethane	1.0
Vinyl chloride	1.0
Bromomethane	1.0
Chloroethane	1.0
Trichlorofluoromethane	1.0

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Purge and Trap GC/MSD

1,1-Dichloroethene	1.0
Methylene chloride	1.0
trans-1,2-Dichloroethene	1.0
1,1-Dichloroethane	1.0
cis-1,2-Dichloroethene	1.0
2,2-Dichloropropane	1.0
Bromochloromethane	1.0
Chloroform	1.0
1,1,1-Trichloroethane	1.0
1,1-Dichloropropene	1.0
Carbon tetrachloride	1.0
Benzene	1.0
1,2-Dichloroethane	1.0
Trichloroethene	1.0
1,2-Dichloropropane	1.0
Dibromomethane	1.0
Bromodichloromethane	1.0
cis-1,3-Dichloropropene	2.0
Toluene	1.0
trans-1,3-Dichloropropene	1.0
1,1,2-Trichloroethane	1.0
Tetrachloroethene	1.0
1,3-Dichloropropane	1.0
Dibromochloromethane	1.0
1,2-Dibromoethane	1.0
Chlorobenzene	1.0
1,1,1,2-Tetrachloroethane	1.0
Ethyl benzene	1.0
Xylenes, total	2.0
Styrene	1.0
Bromoform	2.0
Isopropylbenzene	1.0
1,1,2,2-Tetrachloroethane	2.0
Bromobenzene	1.0
1,2,3-Trichloropropane	2.0
n-Propylbenzene	1.0
2-Chlorotoluene	1.0
1,3,5-Trimethylbenzene	1.0
4-Chlorotoluene	1.0
tert-Butylbenzene	1.0
1,2,4-Trimethylbenzene	1.0
sec-Butylbenzene	1.0
1,3-Dichlorobenzene	1.0
p-Isopropyltoluene	1.0
1,4-Dichlorobenzene	1.0
n-Butylbenzene	1.0
1,2-Dichlorobenzene	1.0
1,2-Dibromo-3-chloropropane	2.0
1,3,5-Trichlorobenzene	1.0
1,2,4-Trichlorobenzene	1.0
Hexachlorobutadiene	1.0

	Purge and Trap GC/MSD
Naphthalene	3.0
1,2,3-Trichlorobenzene	1.0

	Direct Injection GC/MSD/SIM
1,4-Dioxane	1.0

A summary of volatile test results is provided in Table 1. A summary of method blanks and matrix spike/matrix spike duplicate data is provided in Table 2 and 3.

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

- A) Chain of custody sheets for samples
- B) FEDEX shipping label for Columbia Analytical Services, Inc.
- C) Chain of custody sheets for samples sent to Columbia Analytical Services, Inc.

VOC Method Summary

Water Samples

Water samples were provided by the client to the lab in 40mL VOC vials. A 10mL aliquot of the sample was withdrawn from the vial with a 10mL Luer-Lok™ syringe. 10 µL of a 25µg/mL surrogate and internal standard solution was added to the sample in the 10 mL syringe. The sample was then immediately loaded onto a Tekmar ALS 2016 autosampler with a Tekmar LSC 2000 purge and trap concentrator for GC\MSD analysis.

GC/MSD Procedure:

Identification of target compounds was done by matching retention times and mass spectra of peaks found in samples to those found in a VOC calibration standard using the internal standards as time reference peaks. Quantitation was performed by the internal standard technique using a seven point standard curve generated from 5, 10, 20, 50, 100, 250, and 500 ng standards. These levels equate to 0.5, 1.0, 2.0, 5.0, 10, 25 and 50 µg/L for water samples.

A Hewlett-Packard 5890 gas chromatograph with a 30m x 0.32mm RTX-624 micro-capillary column interfaced to a Hewlett-Packard 5972 MSD was used. The data system included a Hewlett-Packard Enviroquant chromatography workstation for data handling.

Quality control consisted of the following items:

- Initial calibration with % relative standard deviation less than 15% of individual response factors obtained from analysis of calibration standards
- Continuing Calibration Verification standards analyzed at a frequency of every ten samples or less
- Surrogate standard additions to samples
- Blank and LCS samples analyzed every twenty samples or less with a minimum of one per day per matrix.
- MS/MSD samples analyzed every twenty samples or less per matrix.
- Information documented in Logbook 150.

1,4-Dioxane Method Summary

Water Samples

Water samples were provided by the client to the lab in 1L amber bottle. 200 grams of sample was transferred to the filtering apparatus, spiked with 40uL 25ug/mL surrogate solution and 40uL 25ug/mL spike solution (if necessary) then filtered through a 3M 2272 activated carbon disk. The activated carbon disk was placed in a 3 dram vial containing 8mL methanol and sonicated for 15 minutes. A 0.8mL aliquot of the sample extract was spiked with 10uL 25ug/mL internal standard solution and analyzed by direct inject GC/MSD/SIM.

GC/MSD Procedure:

Identification of the target compound was done by matching retention times, quantitation and qualifier ion relative responses to that of an authentic standard. Quantitation is accomplished by comparing the response of the major (quantitation) ion relative to an internal standard using a seven point calibration curve. These levels equate to 0.5, 1.0, 2.5, 5.0, 10, 50 and 100 ug/L for water samples.

A Hewlett-Packard 5890 Series II gas chromatograph with a 30m x 0.32mm 1.8u film, RTX-624 micro-capillary column interfaced to a Hewlett-Packard 5972 MSD was used. The data system included a Hewlett-Packard Enviroquant chromatography workstation for data handling.

Quality control consisted of the following items:

- Initial calibration with % relative standard deviation less than 15% of individual response factors obtained from analysis of calibration standards
- Continuing Calibration Verification standards analyzed at a frequency of every ten samples or less
- Surrogate standard additions to samples
- Blank and LCS samples analyzed every twenty samples or less with a minimum of one per day per matrix.
- MS/MSD samples analyzed every twenty samples or less per matrix.
- Information documented in Logbook 150.

Table 1

Sample Results Volatiles– June

Kuhlman Electric - Crystal Springs, Mississippi - Volatiles Detected in Water

TABLE 1

VOLATILES	Depth Date Collected Time Collected Date Analyzed Reporting Unit	Volatiles Detected in Water																	
		W2318 KEP- GW- 006-009	W2319 KEP- GW- 008-009	W2320 KEP- GW- 007-009	W2321 KEP- GW- 003-009	W2322 KEP- FB- 017	W2323 KEP- GW- 002-009	W2324 KEP- GW- 004-009	W2325 KEP- GW- 013-004	W2326 KEP- GW- 009-007	W2318 KEP- GW- 006-009	W2319 KEP- GW- 008-009	W2320 KEP- GW- 007-009	W2321 KEP- GW- 003-009	W2322 KEP- FB- 017	W2323 KEP- GW- 002-009	W2324 KEP- GW- 004-009	W2325 KEP- GW- 013-004	W2326 KEP- GW- 009-007
1,4-Dioxane	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,4-Dioxane-d8	%	88.1	94.5	88.7	95.3	88.3	92.0	83.2	93.4	88.1	94.5	88.7	95.3	88.3	92.0	83.2	93.4	88.1	94.5
Dichlorodifluoromethane	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Chloromethane	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Vinyl chloride	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Bromomethane	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Chloroethane	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Trichlorofluoromethane	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1-Dichloroethane	1.0	8.8	3.6	1.0	3.3	1.0	2.2	4.1	1.0	8.8	3.6	1.0	3.3	1.0	2.2	4.1	1.0	8.8	7.3
Methylene Chloride	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
trans-1,2-Dichloroethane	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1-Dichloroethane	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
cis-1,2-Dichloroethane	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
2,2-Dichloropropane	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Bromochloromethane	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Chloroform	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1,1-Trichloroethane	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1-Dichloropropene	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Carbon Tetrachloride	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Benzene	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,2-Dichloroethane	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Trichloroethene	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,2-Dichloropropane	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Dibromomethane	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Bromodichloromethane	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
cis-1,3-Dichloropropene	2.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Toluene	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
trans-1,3-Dichloropropene	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1,2-Trichloroethane	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Tetrachloroethane	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,3-Dichloropropane	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Dibromochloromethane	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,2-Dibromoethane	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<

TABLE 1

Kuhlman Electric - Crystal Springs, Mississippi - Volatiles Detected in Water

VOLATILES	Depth Date Collected Time Collected Date Analyzed Reporting Limit ug/L	Volatiles Detected in Water																	
		W2318 KEP- GW- 006-009	W2319 KEP- GW- 008-009	W2320 KEP- GW- 007-009	W2321 KEP- GW- 003-009	W2322 KEP- FB- 017	W2323 KEP- GW- 002-009	W2324 KEP- GW- 004-009	W2325 KEP- GW- 013-004	W2326 KEP- GW- 009-007	W2318 KEP- GW- 006-009	W2319 KEP- GW- 008-009	W2320 KEP- GW- 007-009	W2321 KEP- GW- 003-009	W2322 KEP- FB- 017	W2323 KEP- GW- 002-009	W2324 KEP- GW- 004-009	W2325 KEP- GW- 013-004	W2326 KEP- GW- 009-007
Chlorobenzene	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1,1,2-Tetrachloroethane	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Ethyl Benzene	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Xylenes, Total	2.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Styrene	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Bromoform	2.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Isopropylbenzene	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,1,2,2-Tetrachloroethane	2.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Bromobenzene	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,2,3-Trichloropropane	2.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
n-Propylbenzene	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
2-Chlorotoluene	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,3,5-Trimethylbenzene	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
4-Chlorotoluene	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
tert-Butylbenzene	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,2,4-Trimethylbenzene	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
sec-Butylbenzene	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,3-Dichlorobenzene	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
p-Isopropyltoluene	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,4-Dichlorobenzene	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
n-Butylbenzene	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,2-Dichlorobenzene	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,2-Dibromo-3-Chloropropane	2.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,3,5-Trichlorobenzene	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,2,4-Trichlorobenzene	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Hexachlorobutadiene	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Naphthalene	3.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
1,2,3-Trichlorobenzene	1.0	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
Surrogates:																			
Dibromofluoromethane	%	97.4	101	100	97.7	94.4	94.8	98.6	98.9										
Toluene-D8	%	98.3	96.6	95.8	99.2	102	102	101	101										
4-Bromofluorobenzene	%	92.6	93.6	92.9	96.0	97.8	96.0	95.1	83.7										

TABLE 1
Kuhlman Electric - Crystal Springs, Mississippi - Volatiles Detected in Water

VOLATILES	Depth	Date Collected	Time Collected	Date Analyzed	Reporting Limit	Volatiles Detected in Water																				
						W2327	W2328	W2329	W2330	W2331	W2341	W2342	W2343	W2344												
1,4-Dioxane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	
1,4-Dioxane-d8	%	<	90.8	<	88.2	<	85.9	<	86.6	<	92.1	<	94.0	<	95.0	<	89.7	<	82.1							
Dichlorodifluoromethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	
Chloromethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	
Vinyl chloride	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	
Bromomethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	
Chloroethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	
Trichlorofluoromethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	
1,1-Dichloroethene	1.0	<	1.0	<	1.0	<	2.9	<	12	<	13	<	32	<	33	<	12	<	10	<	1.0	<	1.0	<	1.0	
Methylene Chloride	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	
trans-1,2-Dichloroethene	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	
1,1-Dichloroethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	
cis-1,2-Dichloroethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	
2,2-Dichloropropane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	
Bromochloromethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	
Chloroform	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	
1,1,1-Trichloroethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	
1,1-Dichloropropene	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	
Carbon Tetrachloride	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	
Benzene	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	
1,2-Dichloroethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	
Trichloroethene	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	
1,2-Dichloropropane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	
Dibromomethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	
Bromodichloromethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	
cis-1,3-Dichloropropene	2.0	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0	
Toluene	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	
trans-1,3-Dichloropropene	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	
1,1,2-Trichloroethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	
Tetrachloroethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	
1,3-Dichloropropane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	
Dibromochloromethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	
1,2-Dibromoethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	

TABLE 1

Kuhlman Electric - Crystal Springs, Mississippi - Volatiles Detected in Water

VOLATILES	Depth ug/l	Date Collected Time Collected Date Analyzed Reporting Limit	W2345		W2346		W2347		W2348		W2349		W2350		W2351		W2352		W2353		
			KEP- GW-	023A-004	KEP- GW-	021A-004	KEP- GW-	021B-004	KEP- GW-	017B-004	KEP- GW-	017A-004	KEP- GW-	015B-004	KEP- GW-	015A-004	KEP- GW-	011B-004	KEP- GW-	011A-004	
1,4-Dioxane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
1,4-Dioxane-d8	%		81.8		82.2		91.7		89.1		94.0		82.9		90.8		98.6		97.7		11
Dichlorodifluoromethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
Chloromethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
Vinyl chloride	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
Bromomethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
Chloroethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
Trichlorofluoromethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
1,1-Dichloroethane	1.0	<	1.0	<	1.0	<	3.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
Methylene Chloride	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
trans-1,2-Dichloroethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
1,1-Dichloroethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	2.3
cis-1,2-Dichloroethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
2,2-Dichloropropane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
Bromochloromethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
Chloroform	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
1,1,1-Trichloroethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
1,1-Dichloropropene	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
Carbon Tetrachloride	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
Benzene	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
1,2-Dichloroethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
Trichloroethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
1,2-Dichloropropane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
Dibromomethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
Bromodichloromethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
cis-1,3-Dichloropropene	2.0	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0
Toluene	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
trans-1,3-Dichloropropene	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
1,1,2-Trichloroethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
Tetrachloroethene	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	5.2
1,3-Dichloropropane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
Dibromochloromethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
1,2-Dibromoethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0

Kuhlman Electric - Crystal Springs, Mississippi - Volatiles Detected in Water

TABLE 1

VOLATILES	Depth Date Collected Time Collected Date Analyzed Reporting Unit	W/2363			W/2364			W/2365											
		KEP- GW- 026-004	KEP- GW- 019-004	KEP- GW- 005-009	KEP- GW- 019-004	KEP- GW- 005-009	KEP- GW- 005-009	KEP- GW- 005-009	KEP- GW- 005-009	KEP- GW- 005-009									
1,4-Dioxane	1.0 ug/L	<	1.0	<	1.0	<	1.0	<	1.0										
1,4-Dioxane-d8	%		94.2		94.8		102												
Dichlorodifluoromethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0										
Chloromethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0										
Vinyl chloride	1.0	<	1.0	<	1.0	<	1.0	<	1.0										
Bromomethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0										
Chloroethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0										
Trichlorofluoromethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0										
1,1-Dichloroethane	1.0	<	1.0	<	3.4	<	1.0	<	1.0										
Methylene Chloride	1.0	<	1.0	<	1.0	<	1.0	<	1.0										
trans-1,2-Dichloroethene	1.0	<	1.0	<	1.0	<	1.0	<	1.0										
1,1-Dichloroethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0										
cis-1,2-Dichloroethene	1.0	<	1.0	<	1.0	<	1.0	<	1.0										
2,2-Dichloropropane	1.0	<	1.0	<	1.0	<	1.0	<	1.0										
Bromochloromethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0										
Chloroform	1.0	<	1.0	<	1.0	<	1.0	<	1.0										
1,1,1-Trichloroethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0										
1,1-Dichloropropene	1.0	<	1.0	<	1.0	<	1.0	<	1.0										
Carbon Tetrachloride	1.0	<	1.0	<	1.0	<	1.0	<	1.0										
Benzene	1.0	<	1.0	<	1.0	<	1.0	<	1.0										
1,2-Dichloroethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0										
Trichloroethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0										
1,2-Dichloropropane	1.0	<	1.0	<	1.0	<	1.0	<	1.0										
Dibromomethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0										
Bromodichloromethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0										
cis-1,3-Dichloropropene	2.0	<	2.0	<	2.0	<	2.0	<	2.0										
Toluene	1.0	<	1.0	<	1.0	<	1.0	<	1.0										
trans-1,3-Dichloropropene	1.0	<	1.0	<	1.0	<	1.0	<	1.0										
1,1,2-Trichloroethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0										
Tetrachloroethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0										
1,3-Dichloropropane	1.0	<	1.0	<	1.0	<	1.0	<	1.0										
Dibromochloromethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0										
1,2-Dibromoethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0										

TABLE 1
Kuhlman Electric - Crystal Springs, Mississippi - Volatiles Detected in Water

VOLATILES	Depth ug/L	Depth		
		Date Collected Time Collected Date Analyzed Reporting Unit	W2363 KEP- GW- 026-004	W2364 KEP- GW- 019-004
Chlorobenzene	1.0	13-Jun-08 08:51	13-Jun-08 11:45	13-Jun-08 14:51
1,1,1,2-Tetrachloroethane	1.0	15-Jun-08	15-Jun-08	15-Jun-08
Ethyl Benzene	1.0	16-Jun-08	15-Jun-08	16-Jun-08
Xylenes, Total	2.0	<	<	<
Styrene	1.0	<	<	<
Bromoforn	2.0	<	<	<
Isopropylbenzene	1.0	<	<	<
1,1,2,2-Tetrachloroethane	2.0	<	<	<
Bromobenzene	1.0	<	<	<
1,2,3-Trichloropropane	2.0	<	<	<
n-Propylbenzene	1.0	<	<	<
2-Chlorotoluene	1.0	<	<	<
1,3,5-Trimethylbenzene	1.0	<	<	<
4-Chlorotoluene	1.0	<	<	<
tert-Butylbenzene	1.0	<	<	<
1,2,4-Trimethylbenzene	1.0	<	<	<
sec-Butylbenzene	1.0	<	<	<
1,3-Dichlorobenzene	1.0	<	<	<
p-Isopropyltoluene	1.0	<	<	<
1,4-Dichlorobenzene	1.0	<	<	<
n-Butylbenzene	1.0	<	<	<
1,2-Dichlorobenzene	1.0	<	<	<
1,2-Dibromo-3-Chloropropane	2.0	<	<	<
1,3,5-Trichlorobenzene	1.0	<	<	<
1,2,4-Trichlorobenzene	1.0	<	<	<
Hexachlorobutadiene	1.0	<	<	<
Naphthalene	3.0	<	<	<
1,2,3-Trichlorobenzene	1.0	<	<	<
Surrogates:				
Dibromofluoromethane	%	93.8	95.5	94.3
Toluene-D8	%	98.2	101	95.8
4-Bromofluorobenzene	%	98.1	101	94.7

Table 2

QC Results Volatiles— June

Table 2
QC Results

Lab # associated with qc samples: W2318 through W2331

Matrix W2341 through W2346

Matrix Spike Duplicate Blank Blank

Date Analyzed: W2318 W2318 6/12/08 6/13/08

Compound	% Rec	% Rec	RPD	ug/L	ug/L
Dichlorodifluoromethane	95.4%	104%	8.6%	< 1.0	< 1.0
Chloromethane	95.8%	123%	25.0%	< 1.0	< 1.0
Vinyl chloride	99.4%	104%	4.9%	< 1.0	< 1.0
Bromomethane	97.2%	122%	22.3%	< 1.0	< 1.0
Chloroethane	96.6%	104%	7.2%	< 1.0	< 1.0
Trichlorofluoromethane	100%	96.0%	4.3%	< 1.0	< 1.0
1,1-Dichloroethene	93.3%	87.5%	6.4%	< 1.0	< 1.0
Methylene chloride	93.0%	95.8%	3.0%	< 1.0	< 1.0
trans-1,2-Dichloroethene	81.4%	82.8%	1.7%	< 1.0	< 1.0
1,1-Dichloroethane	108%	108%	0.7%	< 1.0	< 1.0
cis-1,2-Dichloroethene	97.6%	102%	4.6%	< 1.0	< 1.0
2,2-Dichloropropane	103%	99.4%	3.6%	< 1.0	< 1.0
Bromochloromethane	103%	108%	4.4%	< 1.0	< 1.0
Chloroform	99.6%	102%	2.0%	< 1.0	< 1.0
1,1,1-Trichloroethane	101%	101%	0.0%	< 1.0	< 1.0
1,1-Dichloropropene	97.4%	98.4%	1.0%	< 1.0	< 1.0
Carbon tetrachloride	99.4%	98.8%	0.8%	< 1.0	< 1.0
Benzene	99.0%	99.2%	0.2%	< 1.0	< 1.0
1,2-Dichloroethane	104%	108%	3.8%	< 1.0	< 1.0
Trichloroethene	101%	99.2%	2.2%	< 1.0	< 1.0
1,2-Dichloropropane	97.6%	99.8%	2.2%	< 1.0	< 1.0
Dibromomethane	101%	110%	8.3%	< 1.0	< 1.0
Bromodichloromethane	101%	102%	1.8%	< 1.0	< 1.0
cis-1,3-Dichloropropene	98.4%	103%	7.0%	< 2.0	< 2.0
Toluene	61.6%	62.6%	1.6%	< 1.0	< 1.0
trans-1,3-Dichloropropene	101%	106%	4.8%	< 1.0	< 1.0
1,1,2-Trichloroethane	105%	111%	5.6%	< 1.0	< 1.0
Tetrachloroethene	103%	103%	0.0%	< 1.0	< 1.0
1,3-Dichloropropane	102%	108%	5.9%	< 1.0	< 1.0
Dibromochloromethane	98.6%	109%	10.2%	< 1.0	< 1.0
1,2-Dibromoethane	99.8%	110%	9.7%	< 1.0	< 1.0
Chlorobenzene	103%	101%	2.2%	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	98.6%	96.6%	2.0%	< 1.0	< 1.0
Ethyl benzene	98.2%	95.6%	2.7%	< 1.0	< 1.0

Table 2
QC Results

Lab # associated with qc samples: W2318 through W2331

Matrix W2341 through W2346

Matrix Spike Duplicate Blank Blank

Date Analyzed: W2318 W2318 6/12/08 6/13/08

Compound	% Rec	% Rec	RPD	ug/L	ug/L
Xylenes, Total	99.0%	98.1%	0.9%	< 2.0	< 2.0
Styrene	96.8%	98.6%	1.8%	< 1.0	< 1.0
Bromoform	101%	105%	3.9%	< 2.0	< 2.0
Isopropylbenzene	98.8%	99.2%	0.4%	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	109%	114%	4.3%	< 2.0	< 2.0
Bromobenzene	105%	107%	1.9%	< 1.0	< 1.0
1,2,3-Trichloropropane	106%	115%	7.6%	< 2.0	< 2.0
n-Propylbenzene	105%	106%	1.5%	< 1.0	< 1.0
2-Chlorotoluene	105%	108%	3.4%	< 1.0	< 1.0
1,3,5-Trimethylbenzene	104%	108%	3.4%	< 1.0	< 1.0
4-Chlorotoluene	105%	112%	6.8%	< 1.0	< 1.0
tert-Butylbenzene	103%	105%	1.5%	< 1.0	< 1.0
1,2,4-Trimethylbenzene	107%	112%	4.4%	< 1.0	< 1.0
sec-Butylbenzene	107%	109%	2.2%	< 1.0	< 1.0
1,3-Dichlorobenzene	105%	101%	4.1%	< 1.0	< 1.0
p-Isopropyltoluene	101%	97.2%	3.4%	< 1.0	< 1.0
1,4-Dichlorobenzene	104%	102%	2.1%	< 1.0	< 1.0
n-Butylbenzene	105%	101%	3.5%	< 1.0	< 1.0
1,2-Dichlorobenzene	103%	102%	1.0%	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	102%	111%	8.1%	< 2.0	< 2.0
1,3,5-Trichlorobenzene	107%	105%	2.3%	< 1.0	< 1.0
1,2,4-Trichlorobenzene	106%	107%	0.8%	< 1.0	< 1.0
Hexachlorobutadiene	109%	103%	5.5%	< 1.0	< 1.0
Naphthalene	99.2%	100%	1.2%	< 3.0	< 3.0
1,2,3-Trichlorobenzene	109%	107%	2.2%	< 1.0	< 1.0

Table 2
QC Results

Lab # associated with qc samples: W2347 through W2365

	Matrix Spike	Matrix Spike Duplicate			Blank	Blank
Date Analyzed:	W2354	W2354			6/14/08	6/15/08
Compound	% Rec	% Rec	RPD		ug/L	ug/L
Dichlorodifluoromethane	91.6%	91.3%	0.3%		< 1.0	< 1.0
Chloromethane	80.2%	84.8%	5.6%		< 1.0	< 1.0
Vinyl chloride	98.8%	100%	1.3%		< 1.0	< 1.0
Bromomethane	110%	112%	1.7%		< 1.0	< 1.0
Chloroethane	105%	115%	9.2%		< 1.0	< 1.0
Trichlorofluoromethane	123%	114%	7.7%		< 1.0	< 1.0
1,1-Dichloroethene	108%	106%	1.6%		< 1.0	< 1.0
Methylene chloride	99.3%	133%	28.6%		< 1.0	< 1.0
trans-1,2-Dichloroethene	117%	103%	12.3%		< 1.0	< 1.0
1,1-Dichloroethane	96.7%	90.0%	7.2%		< 1.0	< 1.0
cis-1,2-Dichloroethene	96.6%	90.0%	7.1%		< 1.0	< 1.0
2,2-Dichloropropane	102%	94.5%	7.6%		< 1.0	< 1.0
Bromochloromethane	86.8%	86.5%	0.3%		< 1.0	< 1.0
Chloroform	96.8%	90.1%	7.2%		< 1.0	< 1.0
1,1,1-Trichloroethane	104%	94.6%	9.5%		< 1.0	< 1.0
1,1-Dichloropropene	105%	100%	4.6%		< 1.0	< 1.0
Carbon tetrachloride	118%	112%	5.0%		< 1.0	< 1.0
Benzene	103%	101%	2.2%		< 1.0	< 1.0
1,2-Dichloroethane	96.6%	91.7%	5.2%		< 1.0	< 1.0
Trichloroethene	104%	101%	3.1%		< 1.0	< 1.0
1,2-Dichloropropane	94.8%	90.4%	4.8%		< 1.0	< 1.0
Dibromomethane	89.9%	90.4%	0.6%		< 1.0	< 1.0
Bromodichloromethane	94.2%	92.1%	2.3%		< 1.0	< 1.0
cis-1,3-Dichloropropene	87.2%	86.2%	1.2%		< 2.0	< 2.0
Toluene	80.2%	83.0%	3.4%		< 1.0	< 1.0
trans-1,3-Dichloropropene	82.7%	85.9%	3.8%		< 1.0	< 1.0
1,1,2-Trichloroethane	83.3%	85.3%	2.4%		< 1.0	< 1.0
Tetrachloroethene	107%	110%	2.8%		< 1.0	< 1.0
1,3-Dichloropropane	83.3%	84.0%	0.8%		< 1.0	< 1.0
Dibromochloromethane	85.7%	87.4%	2.0%		< 1.0	< 1.0
1,2-Dibromoethane	82.0%	83.8%	2.2%		< 1.0	< 1.0
Chlorobenzene	106%	103%	3.3%		< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	107%	97.5%	9.3%		< 1.0	< 1.0
Ethyl benzene	104%	99.7%	4.2%		< 1.0	< 1.0

Table 2
QC Results

Lab # associated with qc samples: W2347 through W2365

	Matrix Spike	Matrix Spike Duplicate	Blank	Blank
Date Analyzed:	W2354	W2354	6/14/08	6/15/08

Compound	% Rec	% Rec	RPD	ug/L	ug/L
Xylenes, Total	104%	101%	3.1%	< 2.0	< 2.0
Styrene	94.5%	92.8%	1.8%	< 1.0	< 1.0
Bromoform	86.6%	85.9%	0.8%	< 2.0	< 2.0
Isopropylbenzene	98.9%	95.1%	3.9%	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	78.2%	79.6%	1.8%	< 2.0	< 2.0
Bromobenzene	98.9%	99.5%	0.6%	< 1.0	< 1.0
1,2,3-Trichloropropane	82.8%	81.8%	1.2%	< 2.0	< 2.0
n-Propylbenzene	102%	100%	2.0%	< 1.0	< 1.0
2-Chlorotoluene	101%	99.9%	1.1%	< 1.0	< 1.0
1,3,5-Trimethylbenzene	98.4%	98.6%	0.2%	< 1.0	< 1.0
4-Chlorotoluene	99.9%	100%	0.4%	< 1.0	< 1.0
tert-Butylbenzene	100%	101%	0.5%	< 1.0	< 1.0
1,2,4-Trimethylbenzene	96.2%	96.8%	0.6%	< 1.0	< 1.0
sec-Butylbenzene	99.5%	99.0%	0.5%	< 1.0	< 1.0
1,3-Dichlorobenzene	105%	106%	0.9%	< 1.0	< 1.0
p-Isopropyltoluene	105%	105%	0.2%	< 1.0	< 1.0
1,4-Dichlorobenzene	104%	105%	1.2%	< 1.0	< 1.0
n-Butylbenzene	106%	106%	0.4%	< 1.0	< 1.0
1,2-Dichlorobenzene	102%	102%	0.4%	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	76.3%	78.2%	2.5%	< 2.0	< 2.0
1,3,5-Trichlorobenzene	102%	104%	2.0%	< 1.0	< 1.0
1,2,4-Trichlorobenzene	95.2%	98.2%	3.1%	< 1.0	< 1.0
Hexachlorobutadiene	112%	111%	1.0%	< 1.0	< 1.0
Naphthalene	76.4%	81.0%	5.8%	< 3.0	< 3.0
1,2,3-Trichlorobenzene	91.6%	95.2%	3.9%	< 1.0	< 1.0

Table 3

QC Results 1,4-Dioxane– June

**Table 3
QC Results**

Lab # associated with qc samples: W2318 through W2345

	Matrix Spike	Matrix Spike Duplicate	LCS	Blank
	W2321	W2321		
Date Extracted:	06/11/08	06/11/08	06/11/08	06/11/08
Date Analyzed:	06/13/08	06/13/08	06/13/08	06/13/08

Compound	% Rec		% Rec	RPD		% Rec	ug/L
1,4-Dioxane	99.6%		94.0%	5.8%		87.8%	< 1.0

Table 3
QC Results

Lab # associated with qc samples: W2346 through W2365

	Matrix Spike	Matrix Spike Duplicate	LCS	Blank
	W2353	W2353		
Date Extracted:	06/15/08	06/15/08	06/15/08	06/15/08
Date Analyzed:	06/15/08	06/15/08	06/15/08	06/15/08

Compound	% Rec		% Rec	RPD		% Rec	ug/L
1,4-Dioxane	97.0%		93.5%	3.7%		93.4%	< 1.0

Appendix A

Chain of Custody Sheets for Samples



Environmental Chemistry Consulting Services, Inc.
 2525 Advance Road
 Madison, WI 53718
 Phone 608-221-8700 FAX 608-221-4889

CHAIN OF CUSTODY
Mantoni's well

No. **013698** *
 Page 1 of 1
 Turn Around (circle one) Normal Rush
 Report Due:

Project Number: _____
 Project Name: **K&H WIND ELECTRIC**
 Project Location: **CURTIS SPARKS**
 Sampled By (Print): **Chuck Paul**
 Mail Report To: _____
 Company: **AMSTERDAM + SCHUE**
 Address: _____
 P.O. No: _____ Quote No.: _____

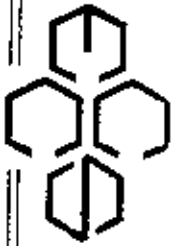
Sample Description	Collection		Matrix	Total Bottles	Preserv ⁿ	Analysis Requested	Comments	Laboratory Number
	Date	Time						
KEP-6W-006-009	6/18/08	1020	W	4	A	92006 + 1,4 Dioxin		W231P
KEP-6W-008-009		105F		4	A			W2319
KEP-6W-009-009		1308		4	A			W2320
KEP-6W-003-009		1346		8	H/B		Spilt	W2321
KEP-F8-017-017		1252		4	A			W2322
KEP-6W-002-009		1533		4	A			W2323
KEP-6W-004-009		1617		4	A			W2324
KEP-6W-013-004		1500		4	A			W2325
KEP-6W-009-007		1550		4	A			W2326
<i>[Handwritten signature]</i>								

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

Relinquished By: *Charles O.M. Paul*
 Date/Time: *6/18/08 1910*
 Relinquished By: _____
 Date/Time: _____

Received By: *George Huber*
 Date/Time: *4/9/09 0800*
 Received By: _____
 Date/Time: _____

Custody Seal Present/Absent _____ In tact/Not In tact _____ Seal #s _____
 Shipped Via: _____
 Receipt Temp: _____
 Temp Blank Y N *in fridge @ 5°C*
 Laboratory Submitter



Environmental Chemistry Consulting Services, Inc.

2525 Advance Road
Madison, WI 53718
Phone 608-221-8700
FAX 608-221-4889

CHAIN OF CUSTODY
Monitoring Wells

No. 013710 #

Page 1 of 1

Turn Around (circle one) Normal Rush

Report Due:

Invoice To:

Company:

Address:

P.O. No.:

Quote No.:

Comments

Laboratory Number

Project Number

Project Name: *KATHMANDU ELECTRIC*

Project Location: *CHRYSLER SPARKS*

Sampler By (Print)

Charles Paul

Mail Report To

Company: *WATTS, W + SUTELLE*

Address:

Sample Description

Collection Date

Time

Matrix

Total Bottles

Preserv*

Analysis Requested

Comments

Laboratory Number

KEP-GW-018A-004

6/10/05

11:45

W

7

A/B

P2008 + 1,4 Dioxin

W2341

DUPLICATE 2

—

—

7

A/B

1

W2342

KEP-GW-019B-004

10/22/05

11:45

7

A/B

570

W2343

KEP-GW-023B-004

1405

—

7

A/B

W2344

KEP-GW-023A-004

1441

—

4

A

W2345

KEP-GW-021A-004

1615

—

4

A

W2346

KEP-GW-021B-004

1640

—

4

A

W2347

KEP-GW-017B-004

1900

—

4

A

W2348

KEP-GW-017A-004

1916

—

4

A

W2349

*Preservation Code

Relinquished By:

Date/Time:

Received By:

Date/Time:

A=None B=HCL C=H2SO4

Charles A.M. Paul

6/10/05 11:30

Joseph Plutzel

6/10/05 19:30

D=HNO3 E=EnCore F=Methanol

Relinquished By:

Date/Time:

Received By:

Date/Time:

G=NaOH O=Other(Indicate)

Custody Seal: Present/Absent

Intact/Not Intact

Seal #s

Receipt Temp:

Date/Time:

Shipped Via

Temp Blank Y N *on air*

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



Environmental Chemistry Consulting Services, Inc.

2635 Advance Road
Phone 608-221-8700

Madison, WI 53718
FAX 608-221-4899

Monitoring Wells

CHAIN OF CUSTODY

No. **013712** *

Page **1** of **1**

Turn Around (circle one) Normal Rush

Report Due: _____

Project Number: _____

Mail Report To: _____

Invoice To: _____

Project Name: **KATHMANDU ELECTRIC**

Company: **MATTIWIN & SONS**

Company: _____

Project Location: **CADASTRAL STAIRS**

Address: _____

Address: _____

Sampled By (Print): **Charles Paul**

P.O. No: _____

Quote No.: _____

Sample Description	Collection		Matrix	Total Bottles	Preserv*	Analysis Requested	Comments	Laboratory Number
	Date	Time						
KEP-GW-015B-004	6/11/10	1050	W	4	A	P2208 & 1, 4 Digram		W2350
KEP-GW-015A-004		1120		4				W2351
KEP-GW-011B-004		1420		4				W2352
KEP-GW-011A-004		1440		4				W2353
KEP-GW-010B-004		1822		4				W2354
KEP-GW-010A-004		1927		4				W2355
KEP-GW-010C-004		1952		4				W2356
<i>[Signature]</i>								
*Preservation Code								
A=None B=HCL C=H2SO4								
D=HNO3 E=EnCore F=Methanol								
G=NaOH O=Other(Indicate)								
Relinquished By: <i>Charles Paul</i>			Date/Time: 6/11/10 2:00			Received By: <i>[Signature]</i>		
Relinquished By: _____			Date/Time: _____			Received By: _____		
Customer Seal: Present/Absent			Interlock/No Interlock			Seal #'s		
Shipped Via			Receipt Temp: _____			Temp Blank Y N <i>OR</i>		



Environmental Chemistry Consulting Services, Inc.

2625 Advance Road
Madison, WI 53718
Phone 608-221-8700 FAX 608-221-4889

CHAIN OF CUSTODY
Monitoring Wells

Page 1 of 1
No. **013716** *

Turn Around (circle one) Normal Rush
Report Due:

Project Number

Mail Report To:

Invoice To:

Project Name **KUTHERN ELECTRIC**

Company **DAWTRIN + SHELLE**

Company:

Project Location: **CHITWA STAKES**

Address:

Address:

Sampled By (Print)

Chuck Paul

P.O. No

Quote No.:

Sample Description

Collection Date Time

Matrix

Total Bottles

Preserv*

Analysis Requested

Comments

Laboratory Number

KEP-GW-016-004

6/12/08 1120

W

4

A

SWGS & HYDRICAM

W2357

KEP-GW-012-004

1148

W

1

1

W2358

KEP-GW-022-004

1448

W

1

1

W2359

KEP-GW-024-004

1533

W

1

1

W2360

KEP-GW-027-004

1811

W

1

1

W2361

KEP-GW-025-004

1838

W

1

1

W2362

[Signature]

*Preservation Code

Relinquished By

Date/Time

Received By:

Date/Time

A=None B=HCL C=H2SO4

Chuck Paul

6/12/08 1900

[Signature]

6/12/08 1900

D=HNO3 E=EnCore F=Methanol

Relinquished By

Date/Time

Received By:

Date/Time

G=NaOH O=Other(Indicate)

Custody Seal: Present/Absent

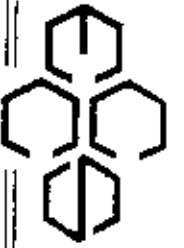
Intact/Not Intact

Seal #s

Receipt Temp:

Temp Blank Y N *OK in*

Shipped Via



Environmental Chemistry Consulting Services, Inc.

2625 Advance Road
Madison, WI 53716
Phone 608-221-8700

FAX 608-221-4888

CHAIN OF CUSTODY
Monitoring Wells

No. **013707** *

Page 1 of 1

Turn Around (circle one) Normal Rush

Project Number

Mail Report To:

Invoice To:

Project Name

Company

Company:

Project Location:

Address

Address:

Sampled By (Print)

Chuck Paul

P.O. No.:

Quote No.:

Sample Description

Collection Date

Time

Matrix

Total Bottles

Preserv*

Analyses Requested

Comments

Laboratory Number

REP-6W-026-004

6/18/08 0951

W

4

A

P2608 + 1,4Dioxin

W2363

REP-6W-019-004

↓ 1195

↓

↓

↓

↓

W2364

REP-6W-005-009

↓ 1451

↓

↓

↓

↓

W2365

[Signature]

*Preservation Code

A=None B=HCL C=H2SO4

D=HNO3 E=EnCore F=Methanol

G=NaOH O=Other(Indicate)

Relinquished By:

Seal #s

Date/Time:

Received By:

Date/Time:

Charles O. M. Paul

6/18/08 1500

[Signature]

6/18/08 1500

Customer Seal: Present/Absent

Intact/Not Intact

Seal #s

Receipt Temp:

Date/Time:

Shipped Via:

Temp Blank

Y N

on ice

Appendix B

FEDEX shipping label for Columbia Analytical Services, Inc.



USA Airbill

FedEx Tracking Number

837784146484

Form ID No.

0200

From **Sender's Name** Jack Kubala **Sender's FedEx Account Number** 226281991
Date 6/10/08

Sender's Name Jack Kubala **Phone** (609) 345-1974

Company ECCS, INC

Address 2525 ADVANCE RD

City MADISON **State** WI **ZIP** 53718

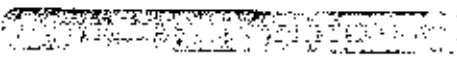
Your Internal Billing Reference
FedEx charges will appear on invoice

To Recipient's Name COLUMBIA ANALYTICAL **Phone** 360 577-7222

Company COLUMBIA ANALYTICAL

Address 1317 S. 13th Ave

City KELSO **State** WA **ZIP** 98626



By using this Airbill you agree to the service conditions on the back of this Airbill and in our current Service Guide, including terms that limit our liability.

Questions? Visit our Web site at fedex.com or call 1.800.Go.FedEx® 800.463.3339.

4a Express Package Service
 FedEx Priority Overnight® Next business morning
 FedEx Standard Overnight® Next business morning
 FedEx First Overnight® Next business morning, delivery to select locations

FedEx 2Day® Next business day
 FedEx Express Saver® Next business day
 FedEx 1Day Freight® Next business day
 FedEx 2Day Freight® Second business day
 FedEx 3Day Freight® Third business day

4b Express Freight Service
 FedEx 1Day Freight® Next business day
 FedEx 2Day Freight® Second business day
 FedEx 3Day Freight® Third business day

5 Packaging
 FedEx Envelope®
 FedEx Pak®
 Other

6 Special Handling
 SATURDAY Delivery
 HOLD Weekday at FedEx Location
 HOLD Saturday at FedEx Location

Does this shipment contain dangerous goods?
 No
 Yes (An MSDS must be attached to the shipment)
 Yes (Shippers Declaration not required)
 Dry Ice (Dry ice 4.000 max)
 Cargo Aircraft Only

7 Payment \$/to:
 Sender (FedEx account)
 Recipient
 Third Party
 Credit Card
 Cash/Check

Total Packages: _____ Total Weight: _____ Total Declared Value*: \$ _____
*Our liability is limited to \$500 unless you declare a higher value. See back for details. FedEx Use Only

8 Release Signature (Sign to authorize delivery without requiring signature)

By signing your Airbill you authorize us to deliver this shipment without obtaining a signature and to release us from liability for any resulting claims.

446

Mail to: FedEx Airbill Dept, 10000 W. Alameda, Suite 100, Denver, CO 80231

Appendix C

Chain of Custody Sheets for samples sent to Columbia Analytical Services, Inc.



an Empcon - owned Company

1317 South 15th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 696-7222x07 • FAX (360) 696-1068

PAGE _____ OF _____ SR#:

COC # _____

CHAIN OF CUSTODY

PROJECT NAME: KATHLEEN D ELECTRIC PROJECT NUMBER: 10101 CONTRACT NUMBER: WMTN - STABLE CONTRACT ADDRESS: WMTN - STABLE CITY/STATE/ZIP: BLACK MOUNTAIN NC BANK ADDRESS: PHONE #: FAX #: ANALYST'S SIGNATURE: <i>[Signature]</i> DATE: 6/10/03	
SAMPLE ID. DATE TIME LAB ID. MATRIX KEP-CW-003-009 6/8/03 1346 W 4 KEP-CW-020A-004 6/9/03 1520 W 4 KEP-CW-020B-004 6/9/03 1650 W 5 KEP-CW-020C-004 6/9/03 1650 W 5 KEP-CW-020D-004 6/9/03 1650 W 4 KEP-CW-020E-004 6/9/03 1650 W 4 TRIP BLANK W 1	NUMBER OF CONTAINERS Semivolatile Organics by GC/MS 625 <input type="checkbox"/> 8270 <input type="checkbox"/> 8270LL <input type="checkbox"/> Volatile Organics 624 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> 8021 <input type="checkbox"/> BTEX <input type="checkbox"/> Hydrocarbons (*see below) Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Oil <input type="checkbox"/> <input type="checkbox"/> Fuel Fingerprint (FIQ) <input type="checkbox"/> NW-HCID Screen Oil & Grease/TRPH 1664 HEM <input type="checkbox"/> 1664 SGT <input type="checkbox"/> PCB's Aroclors <input type="checkbox"/> Congeners <input type="checkbox"/> Pesticides/Herbicides 608 <input type="checkbox"/> 8081A <input type="checkbox"/> 8141A <input type="checkbox"/> 8151A <input type="checkbox"/> Chlorophenolics - 8151M Tri <input type="checkbox"/> Tetra <input type="checkbox"/> PCP <input type="checkbox"/> PAHs 8310 <input type="checkbox"/> SIM <input type="checkbox"/> Metals, Total or Dissolved (See list below) Cyanide <input type="checkbox"/> Hex-Chrom <input type="checkbox"/> pH, Cond., Cl, SO ₄ , PO ₄ , F, NO ₂ , NO ₃ , BOD, TSS, TDS (Circle) NH ₃ -N, COD, Total-P, TKN, TOC, DOC (circle) NO ₂ +NO ₃ TOX 9020 <input type="checkbox"/> AOX 1650 <input type="checkbox"/> 506 <input type="checkbox"/> 1,4-Dioxane by P270 SIM
REPORT REQUIREMENTS I. Routine Report: Method Blank, Surrogate, as required II. Report Dup., MS, MSD as required III. Data Validation Report (includes all raw data) IV. CLP Deliverable Report V. EDD	INVOICE INFORMATION P.O. # 8016 WARRICK BILL TO: 8016 WARRICK TURNAROUND REQUIREMENTS 24 hr. _____ 48 hr. _____ 5 Day _____ Standard (10-15 working days) Provide FAX Results Requested Report Date _____
RELINQUISHED BY: Signature: <i>[Signature]</i> Date/Time: 6/10/03 1440 Printed Name: PRO CONSULTING Firm	RECEIVED BY: Signature: _____ Date/Time: _____ Printed Name: _____ Firm
RELINQUISHED BY: Signature: _____ Date/Time: _____ Printed Name: _____ Firm	RECEIVED BY: Signature: _____ Date/Time: _____ Printed Name: _____ Firm
SPECIAL INSTRUCTIONS/COMMENTS: PCOB - Kathleen list 1,4-Dioxane - send 0.5g/L Report limit	
INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: (CIRCLE ONE)	
Circle which metals are to be analyzed: Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg Disposed Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg	
REMARKS W2321 W2325 W2330 W2331 W2341 W2342	REMARKS W2321 W2325 W2330 W2331 W2341 W2342