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August 6, 2007

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,

*Kari Ann Kubale*  
Joseph Kubale

Enclosure

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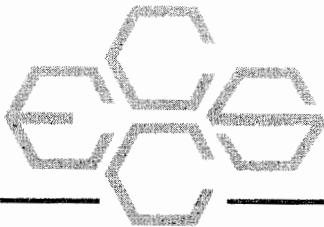
Environmental Chemistry Consulting Services, Inc.

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**Technical Memorandum**

**Kuhlman Electric Corporation (KEC)**

**Crystal Springs, Mississippi**



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## TECHNICAL MEMORANDUM

August 6, 2007

To: Robert Martin  
Martin and Slagle

From: Joseph Kubale  
ECCS

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

### Introduction

This Technical Memorandum provides documentation of the field analytical test methods used to analyze water samples collected in March 2007 during the Waterloo profile groundwater investigation 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	1.0
Toluene	1.0
trans-1,3-Dichloropropene	1.0
1,1,2-Trichloroethane	1.0
Tetrachloroethene	1.0
1,3-Dichloropropane	2.0
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 1,4-Dioxane results is provided in table 2. A summary of method blanks and matrix spike/matrix spike duplicate data is provided in Table 3 and 4, respectively.

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 Paradigm Labs
- C) Chain of custody sheets for samples sent to Paradigm Labs

### **VOC Method Summary**

#### **Water Samples**

Water samples were provided by the client to the field 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 Field Logbook 150.

## **1,4-Dioxane Method Summary**

### **Water Samples**

Water samples were provided by the client to the field lab in 40mL VOA vials. 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 acetone 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, quantitaion 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 in 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 Field Logbook 150.

**Table 1**

**Sample Results Volatiles– March**

Kuhlman Electric - Crystal Springs, Mississippi - Volatiles Detected in Water										V1844 CSW	W1843 CSW	W1842 CSW	W1841 CSW	W1840 CSW	W1838 CSW	W1837 CSW
	Depth	Date Collected	Time Collected	Date Analyzed	Reporting Limit ug/L	VOLATILES	W1837 WA8 009	W1838 WA3 009	W1838 FB 009	W1840 WA1 009	W1841 WA2 009	W1842 WA5 005	W1843 WA6 005	W1844 TP 009	V1845 CSW Duplicate	
		13-Mar-07	13-Mar-07	13-Mar-07	-	Dichlorodifluoromethane	1.0	v	1.0	<	1.0	<	1.0	<	1.0	< 1.0
		13-Mar-07	13-Mar-07	13-Mar-07	-	Chloromethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	< 1.0
		8:35	8:50	8:50	-	Vinyl Chloride	1.0	<	1.0	<	1.0	<	1.0	<	1.0	< 1.0
		13-Mar-07	13-Mar-07	13-Mar-07	-	Bromomethane	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
						Trichlorofluoromethane	1.0	v	1.0	v	1.0	v	1.0	v	1.0	< 1.0
						1,1-Dichloroethene	1.0	v	1.0	v	1.0	v	1.0	v	1.0	< 1.0
						Methylene Chloride	1.0	v	1.0	v	1.0	v	1.0	v	1.0	< 1.0
						trans-1,2-Dichloroethene	1.0	v	1.0	v	1.0	v	1.0	v	1.0	< 1.0
						1,1-Dichloroethane	1.0	v	1.0	v	1.0	v	1.0	v	1.0	< 1.0
						cis-1,2-Dichloroethene	1.0	v	1.0	v	1.0	v	1.0	v	1.0	< 1.0
						2,2-Dichloropropane	1.0	v	1.0	v	1.0	v	1.0	v	1.0	< 1.0
						Bromoform	1.0	v	1.0	v	1.0	v	1.0	v	1.0	< 1.0
						1,1,1-Trichloroethane	1.0	<	1.0	<	1.0	<	1.0	<	1.0	< 1.0
						1,1-Dichloropropene	1.0	v	1.0	v	1.0	v	1.0	v	1.0	< 1.0
						Carbon Tetrachloride	1.0	v	1.0	v	1.0	v	1.0	v	1.0	< 1.0
						Benzene	1.0	v	1.0	v	1.0	v	1.0	v	1.0	< 1.0
						1,2-Dichloroethane	1.0	v	1.0	v	1.0	v	1.0	v	1.0	< 1.0
						Trichloroethene	1.0	v	1.0	v	1.0	v	1.0	v	1.0	< 1.0
						1,2-Dichloropropane	1.0	v	1.0	v	1.0	v	1.0	v	1.0	< 1.0
						Dibromomethane	1.0	v	1.0	v	1.0	v	1.0	v	1.0	< 1.0
						Bromodichloromethane	1.0	v	1.0	v	1.0	v	1.0	v	1.0	< 1.0
						cis-1,3-Dichloropropene	2.0	v	2.0	v	2.0	v	2.0	v	2.0	< 2.0
						Toluene	1.0	<	1.0	<	1.0	<	1.0	<	1.0	< 1.0
						trans-1,3-Dichloropropene	1.0	v	1.0	v	1.0	v	1.0	v	1.0	< 1.0
						1,1,2-Trichloroethane	1.0	v	1.0	v	1.0	v	1.0	v	1.0	< 1.0
						Tetrachloroethene	1.0	v	1.0	v	1.0	v	1.0	v	1.0	< 1.0
						1,3-Dichloropropane	1.0	v	1.0	v	1.0	v	1.0	v	1.0	< 1.0
						Dibromochloromethane	1.0	v	1.0	v	1.0	v	1.0	v	1.0	< 1.0
						1,2-Dibromoethane	1.0	v	1.0	v	1.0	v	1.0	v	1.0	< 1.0
						Chlorobenzene	1.0	v	1.0	v	1.0	v	1.0	v	1.0	< 1.0
						1,1,1,2-Tetrachloroethane	1.0	v	1.0	v	1.0	v	1.0	v	1.0	< 1.0
						Ethyl Benzene	1.0	<	1.0	<	1.0	<	1.0	<	1.0	< 1.0

Mississippi - Volatiles Detected in Water										N1845 CSW Duplicate
	Kuhlman Electric - Crystal Springs, W1837	W1838	W1835	W1840	W1841	W1842	W1843	W1844	W1845 CSW Duplicate	
Depth	CSW WA8 009	CSW WA3 009	CSW FB 009	CSW WA1 009	CSW WA2 009	CSW WA5 005	CSW WA6 005	CSW TP 009		
Date Collected	-	-	-	-	-	-	-	-		
Time Collected	13-Mar-07 8:35	13-Mar-07 8:50	13-Mar-07 9:08	13-Mar-07 9:17	13-Mar-07 9:25	13-Mar-07 9:50	13-Mar-07 10:10	13-Mar-07 10:25	13-Mar-07	
Date Analyzed	13-Mar-07	13-Mar-07	13-Mar-07	13-Mar-07	13-Mar-07	13-Mar-07	13-Mar-07	13-Mar-07	-	
Reporting Limit	ug/L								13-Mar-07	
Xylenes, Total	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
Styrene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Bromoform	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
Isopropylbenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,1,2,2-Tetrachloroethane	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
Bromobenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,3-Trichloropropane	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
n-Propylbenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
2-Chlorotoluene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,3,5-Trimethylbenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
4-Chlorotoluene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
tert-Butylbenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,4-Trimethylbenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
sec-Butylbenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,3-Dichlorobenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
p-Isopropyltoluene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,4-Dichlorobenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
n-Butylbenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dichlorobenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,2-Dibromo-3-Chloropropane	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
1,3,5-Trichlorobenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
1,2,4-Trichlorobenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Hexachlorobutadiene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Naphthalene	3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	
1,2,3-Trichlorobenzene	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Surrogates:										
Dibromofluoromethane	%	104	99.9	102	105	108	112	106	108	
Toluene-D8	%	99.2	99.6	101	101	98.9	100	101	101	
4-Bromofluorobenzene	%	94.8	94.4	100	93.3	94.0	93.2	94.2	93.5	

**Table 2**

**Sample Results 1,4-Dioxane– March**

Kuhlman Electric - Crystal Springs, Mi							Mississippi - 1,4-Dioxane Detected in Water			1845		
	W1837	W1838	W1839	W1840	W1841	W1842	W1843	W1844	CSW	CSW	CSW	
Depth	CSW	CSW	TP	TP	Duplicate							
Date Collected	WA8	WA3	FB	WA1	WA2	WA5	WA6	WA6				
Time Collected	009	009	009	009	009	005	005	009				
Date Analyzed	-	-	-	-	-	-	-	-				
Reporting Limit	13-Mar-07	13-Mar-07										
	8:35	8:50	9:08	9:17	9:25	9:50	10:10	10:25				
	13-Mar-07	13-Mar-07										
<b>VOLATILES</b>												
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
Surrogates:												
1,4-Dioxane-D8	%	83.6	79.5	77.6	83.3	87.4	79.4	79.7	86.4	79.8		

**Table 3**

**QC Results Volatiles– March**

TABLE 3  
QC Report

Lab # associated with qc samples: W1837 through W1845

Matrix	Spike		Blank
Matrix	Duplicate		
Spike	W1840		
W1840	W1840		

Date Analyzed: 3/13/07 3/13/07 3/13/07

Compound	% Rec	% Rec	RPD	ug/L
Dichlorodifluoromethane	100%	90.4%	10.1%	< 1.0
Chloromethane	129%	120%	7.2%	< 1.0
Vinyl chloride	124%	114%	8.4%	< 1.0
Bromomethane	115%	110%	4.4%	< 1.0
Chloroethane	129%	124%	4.0%	< 1.0
Trichlorofluoromethane	122%	111%	9.4%	< 1.0
1,1-Dichloroethene	130%	116%	11.4%	< 1.0
Methylene chloride	125%	111%	11.9%	< 1.0
trans-1,2-Dichloroethene	127%	113%	11.7%	< 1.0
1,1-Dichloroethane	120%	110%	8.7%	< 1.0
cis-1,2-Dichloroethene	122%	110%	10.3%	< 1.0
2,2-Dichloropropane	111%	103%	7.5%	< 1.0
Chloromethane	128%	106%	18.8%	< 1.0
Chloroform	137%	109%	22.8%	< 1.0
1,1,1-Trichloroethane	108%	98.4%	9.3%	< 1.0
1,1-Dichloropropene	102%	94.6%	7.5%	< 1.0
Carbon tetrachloride	109%	107%	1.9%	< 1.0
Benzene	106%	101%	4.8%	< 1.0
1,2-Dichloroethane	106%	99.8%	6.0%	< 1.0
Trichloroethene	102%	96.4%	5.6%	< 1.0
1,2-Dichloropropane	105%	100%	4.9%	< 1.0
Dibromomethane	100%	95.2%	4.9%	< 1.0
Bromodichloromethane	103%	97.0%	6.0%	< 1.0
cis-1,3-Dichloropropene	89.0%	87.2%	2.0%	< 2.0
Toluene	107%	97.8%	9.0%	< 1.0
trans-1,3-Dichloropropene	94.0%	86.4%	8.4%	< 1.0
1,1,2-Trichloroethane	102%	96.2%	5.9%	< 1.0
Tetrachloroethene	104%	96.2%	7.8%	< 1.0
1,3-Dichloropropane	95.8%	91.2%	4.9%	< 1.0
Dibromochloromethane	99.2%	94.6%	4.7%	< 1.0
1,2-Dibromoethane	94.6%	89.4%	5.7%	< 1.0
Chlorobenzene	112%	102%	9.3%	< 1.0
1,1,1,2-Tetrachloroethane	110%	107%	2.8%	< 1.0
Phenyl benzene	108%	101%	6.7%	< 1.0
Xylenes, Total	110%	103%	6.6%	< 2.0
Styrene	108%	99.6%	8.1%	< 1.0
Bromoform	100%	91.2%	9.2%	< 2.0

TABLE 3  
QC Report

Lab # associated with qc samples: W1837 through W1845

	Matrix			
	Matrix	Spike	Duplicate	Blank
Date Analyzed:	W1840	W1840	3/13/07	3/13/07

Compound	% Rec	% Rec	RPD	ug/L
Isopropylbenzene	103%	97.2%	5.8%	< 1.0
1,1,2,2-Tetrachloroethane	96.6%	96.2%	0.4%	< 2.0
Bromobenzene	111%	100%	10.4%	< 1.0
1,2,3-Trichloropropane	104%	103%	1.0%	< 2.0
n-Propylbenzene	109%	102%	6.6%	< 1.0
2-Chlorotoluene	114%	105%	8.2%	< 1.0
1,3,5-Trimethylbenzene	111%	106%	4.6%	< 1.0
4-Chlorotoluene	112%	103%	8.4%	< 1.0
tert-Butylbenzene	107%	102%	4.8%	< 1.0
1,2,4-Trimethylbenzene	112%	104%	7.4%	< 1.0
sec-Butylbenzene	109%	103%	5.7%	< 1.0
1,3-Dichlorobenzene	112%	103%	8.4%	< 1.0
Isopropyltoluene	108%	98.8%	8.9%	< 1.0
1,4-Dichlorobenzene	115%	98.0%	16.0%	< 1.0
n-Butylbenzene	110%	100%	9.5%	< 1.0
1,2-Dichlorobenzene	109%	99.6%	9.0%	< 1.0
1,2-Dibromo-3-chloropropane	92.8%	91.2%	1.7%	< 2.0
1,3,5-Trichlorobenzene	105%	94.8%	10.2%	< 1.0
1,2,4-Trichlorobenzene	97.2%	89.8%	7.9%	< 1.0
Hexachlorobutadiene	113%	102%	10.2%	< 1.0
Naphthalene	84.8%	78.8%	7.3%	< 3.0
1,2,3-Trichlorobenzene	95.8%	91.2%	4.9%	< 1.0

**Table 4**  
**QC Results 1,4-Dioxane– March**

TABLE 4  
QC Report

Lab # associated with qc samples: W1837 through W1845

	Matrix	Spike	Duplicate	LCS	Blank
	W1837	W1837			
Date Extracted:	03/13/07	03/13/07		03/13/07	03/13/07
Date Analyzed:	03/13/07	03/13/07		03/13/07	03/13/07
Compound	% Rec		% Rec	RPD	
1,4-Dioxane	76.8%	80.8%	5.1%		82.8% < 1.0



**Appendix A**

**Chain of Custody Sheets for Samples**



**Appendix B**

**FEDEX shipping label for Paradigm Labs**

FedEx  
Tracking  
Number

8567 8745 2313

Senders Copy

From Please print and press card.

Sender's FedEx  
Account Number

Date 3/14/07

St Name CHUCK PERL

Phone (601) 898-2792

Company PERL CONSULTING

Address 140 CHAPEL LANE

Dept./Floor/Suite/Room

City MADISON

State MS ZIP 39110

## Your Internal Billing Reference

First 24 characters will appear on invoice.

To Recipient's Name SAMPLE RECEIPT

Phone (910) 350-1903

Company PARADIGM ANALYTICAL LABS

Recipient's Address 5500 BUSINESS DR

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City WILMINGTON

State NC

ZIP 28405-8446

0331513763

**Ship and track packages at fedex.com**

Simplify your shipping. Manage your account. Access all the tools you need.

Form  
ID No:

0215

## 4a Express Package Service

- FedEx Priority Overnight  
Next business morning\* Friday  
shipments will be delivered on Monday  
unless SATURDAY Delivery is selected.
- FedEx Standard Overnight  
Next business afternoon\*  
Saturday Delivery NOT available.
- FedEx 2Day  
Second business day\* Thursday  
shipments will be delivered on Monday  
unless SATURDAY Delivery is selected.
- FedEx Express Saver  
Third business day\*  
Saturday Delivery NOT available.
- FedEx Envelope rate is available. Minimum charge: One-pound rate.

\* To most locations.

## 4b Express Freight Service

- FedEx 1Day Freight\*  
Next business day\* Friday  
shipments will be delivered on Monday  
unless SATURDAY Delivery is selected.
- FedEx 2Day Freight  
Second business day\* Thursday  
shipments will be delivered on Monday  
unless SATURDAY Delivery is selected.

\*\* To most locations.

## \* Call for Confirmations.

## 5 Packaging

- FedEx Envelope\*  FedEx Pak\*  
includes FedEx Small Pak,  
FedEx Large Pak, and FedEx Sturdy Pak.
- FedEx Box  FedEx Tube

X Other

\* Declared value limit \$500.

## 6 Special Handling

- SATURDAY Delivery  
NOT Available for:  
FedEx Standard Overnight,  
FedEx Priority Overnight, FedEx Express  
Saver, or FedEx 3Day Freight.
- HOLD Weekday  
at FedEx Location  
NOT Available for:  
FedEx First Overnight

X HOLD Saturday  
at FedEx Location  
Available ONLY for:  
FedEx Priority Overnight and  
FedEx 2Day to select locations.

## Does this shipment contain dangerous goods?

- No  Yes  Yes  
As per attached  
Shipper's Declaration  
not required.
- Dry Ice  
Dry Ice, 9, UN 1845 x kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

 Cargo Aircraft Only

## 7 Payment Bill to:

- Enter FedEx Acct. No. or Credit Card No. below.
- Sender  Recipient  Third Party  Credit Card  Cash/Check  
Acct. No. In Section 1 will be billed.

FedEx Acct. No. 1811-4169-1  
Credit Card No.

Exp.

Date

Total Packages Total Weight Total Declared Value  
\$ .00

FedEx Use Only

†Our liability is limited to \$100 unless you declare a higher value. See back for details. By using this Airbill you agree to the service conditions on the back of this Airbill and in the current FedEx Service Guide, including terms that limit our liability.

## 8 NEW Residential Delivery Signature Options

If you require a signature, check Direct or Indirect.

## No Signature Required

Package may be left  
without obtaining a  
signature for delivery.

## Direct Signature

Anyone at recipient's  
address may sign for  
delivery. Fee applies.

## Indirect Signature

If no one is available at  
recipient's address, anyone  
at a neighboring address may  
sign for delivery. Fee applies.

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Rev. Date 11/05/Part #158279©1994-2005 FedEx PRINTED IN U.S.A.-SRF

## **Appendix C**

### **Chain of Custody Sheets for samples sent to Paradigm Labs**

