

May 22, 2014

Mr. Bill Gintert
Charlotte-Mecklenburg Utility Department
4222 Westmont Dr
Charlotte, NC 28217

RE: Project: Cone Mills Pineville
Pace Project No.: 92202145

Dear Mr. Gintert:

Enclosed are the analytical results for sample(s) received by the laboratory on May 20, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Laura J Cooper
laura.cooper@pacelabs.com
Project Manager

Enclosures

cc: Kristen Brown
Tim Downs, Charlotte-Mecklenburg Utility Department
Myra Zabec-Thompson, Charlotte Mecklenburg Utilities



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Cone Mills Pineville

Pace Project No.: 92202145

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001

Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

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SAMPLE ANALYTE COUNT

Project: Cone Mills Pineville

Pace Project No.: 92202145

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92202145001	Cone Mills Pineville	EPA 8082	RES	8	PASI-C

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ANALYTICAL RESULTS

Project: Cone Mills Pineville

Pace Project No.: 92202145

Sample: Cone Mills Pineville **Lab ID:** 92202145001 Collected: 05/20/14 14:30 Received: 05/20/14 18:00 Matrix: Non Aqueous Liquid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8082 GCS PCB								
Analytical Method: EPA 8082 Preparation Method: EPA 3580								
PCB-1016 (Aroclor 1016)	ND	mg/kg	1.0	1	05/21/14 13:45	05/22/14 03:15	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	mg/kg	1.0	1	05/21/14 13:45	05/22/14 03:15	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	mg/kg	1.0	1	05/21/14 13:45	05/22/14 03:15	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	mg/kg	1.0	1	05/21/14 13:45	05/22/14 03:15	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	mg/kg	1.0	1	05/21/14 13:45	05/22/14 03:15	12672-29-6	
PCB-1254 (Aroclor 1254)	11.0	mg/kg	1.0	1	05/21/14 13:45	05/22/14 03:15	11097-69-1	
PCB-1260 (Aroclor 1260)	14.0	mg/kg	1.0	1	05/21/14 13:45	05/22/14 03:15	11096-82-5	
Surrogates								
Decachlorobiphenyl (S)	97 %		49-130	1	05/21/14 13:45	05/22/14 03:15	2051-24-3	

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QUALITY CONTROL DATA

Project: Cone Mills Pineville

Pace Project No.: 92202145

QC Batch: OEXT/27816

Analysis Method: EPA 8082

QC Batch Method: EPA 3580

Analysis Description: 8082 GCS PCB Oil

Associated Lab Samples: 92202145001

METHOD BLANK: 1203738

Matrix: Non Aqueous Liquid

Associated Lab Samples: 92202145001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	mg/kg	ND	1.0	05/22/14 02:34	
PCB-1221 (Aroclor 1221)	mg/kg	ND	1.0	05/22/14 02:34	
PCB-1232 (Aroclor 1232)	mg/kg	ND	1.0	05/22/14 02:34	
PCB-1242 (Aroclor 1242)	mg/kg	ND	1.0	05/22/14 02:34	
PCB-1248 (Aroclor 1248)	mg/kg	ND	1.0	05/22/14 02:34	
PCB-1254 (Aroclor 1254)	mg/kg	ND	1.0	05/22/14 02:34	
PCB-1260 (Aroclor 1260)	mg/kg	ND	1.0	05/22/14 02:34	
Decachlorobiphenyl (S)	%	78	49-130	05/22/14 02:34	

LABORATORY CONTROL SAMPLE: 1203739

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	mg/kg	10	8.6	86	62-139	
PCB-1260 (Aroclor 1260)	mg/kg	10	8.2	82	56-129	
Decachlorobiphenyl (S)	%			82	49-130	

MATRIX SPIKE SAMPLE: 1203740

Parameter	Units	92202145001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	mg/kg	ND	10	13.2	132	55-143	
PCB-1260 (Aroclor 1260)	mg/kg	14.0	10	25.5	115	10-156	
Decachlorobiphenyl (S)	%				84	49-130	

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QUALIFIERS

Project: Cone Mills Pineville

Pace Project No.: 92202145

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Cone Mills Pineville

Pace Project No.: 92202145

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92202145001	Cone Mills Pineville	EPA 3580	OEXT/27816	EPA 8082	GCSV/17681

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt (SCUR)
Document Number:
F-CHR-CS-003-rev.14

Document Revised: April 07, 2014
Page 1 of 2
Issuing Authority:
Pace Huntersville Quality Office

Client Name: CMOS

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace Other _____

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other _____

Thermometer Used: IR Gun T1102 T1401 Type of Ice: Wet Blue None ☒ Samples on ice, cooling process has begun

Temp Correction Factor T1102: No Correction T1301: No Correction

Corrected Cooler Temp.: 0.3 °C Biological Tissue is Frozen: Yes No N/A

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: 5/20/14

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Samples checked for dechlorination:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: LL Date: 5/20/14
SRF Review: LL Date: 5/21/14

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

WO# : 92202145



System Protection Laboratory, 5100 Brookshire Blvd., Charlotte, NC 28216. 704/394-9284

CLIENT: **CHARLOTTE-MECKLENBURG UTILITIES**

CHARLOTTE-MECKLENBURG UTILITIES

Permit.

Send Report To:

FACILITY:

ADDRESS:

P.O. NUMBER:

621

PHONE: 704/391-5140

Myra Zabec

5100 Brookshire Blvd

Charlotte, NC 28216

COC#:

PAGE OF

Sampled By (Print Name)

100

Project Name:

Project Name: Bill Ginfert / Tim Davis

CHAIN OF CUSTODY RECORD

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[illegible]

2/7/2014
Reviewed by: S/2014/1800
S/2014/19:00
M. J. J. J.

Relinquished By: (Signature)	Received By: (Signature)	Date	Time
<i>Tom Brown</i>	<i>Thomas C Vogel</i>	5-20-14	1529
Relinquished By: (Signature)	Received By: (Signature)	Date	Time
<i>Thomas C Vogel</i>	<i>John Paul</i>	5-20-14	1608
COMMENTS:	TT0:	624:	
<i>Box # 182 sent to PACE</i>			

20fZ retained at ESF KCB 5/20/14
in broken cedar