



September 25, 2014

Mr. Brian Englert  
On-Scene Coordinator  
U.S. Environmental Protection Agency, Region 4  
61 Forsyth Street, SW  
Atlanta, Georgia 30303

**Subject: Removal Sampling Letter Report  
Delta Mills  
Wallace, Marlboro County, South Carolina  
For EPA Region 4, through EPA Region 7 START 4 Contract No. EP-S7-13-06  
Project No. 103X9025144069**

Dear Mr. Englert,

The Tetra Tech, Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) submits this letter report summarizing the multimedia sampling activities conducted during July and August, 2014 at the Delta Mills Site, located at 4351 Brickyard Road, Wallace, Marlboro County, South Carolina. The geographic coordinates of the approximate center of the site are 34.71711 degrees north and 79.85689 degrees west. Enclosure 1 provides figures presenting the site location, general site layout, and sample locations. Enclosure 2 contains tables presenting the laboratory analytical results for samples collected during removal activities. Enclosure 3 presents laboratory analytical packages for samples submitted for this site. Enclosure 4 contains Tetra Tech's Data Validation Reports.

## **BACKGROUND**

The former Delta Mills facility consists of approximately 620 acres; the Delta Mills removal site consists of a 0.42 acre portion of the former Delta Mills facility consisting of two above-ground storage tanks (ASTs) (300,000 and 500,000 gallons) that had originally been used to hold No. 6 fuel oil and later also contained polychlorinated biphenyl (PCB)-contaminated oil; a secondary containment wall; and a pump house where PCB spills occurred (see Figures 1 and 2 in Enclosure 1). This 0.42 acre parcel is currently owned by Schwarz Wallace, LLC. The remainder of the 620 acres has been purchased by Southern States Energy and is being addressed as a "Brownfield" site under a Voluntary Cleanup Contract with South Carolina Department of Health and Environmental Control (SCDHEC) and is excluded from the Delta Mills removal Site.

From June to September, 2014, EPA conducted a removal action at the Site to prevent the discharge of PCB-contaminated oil. Tetra Tech START was tasked with conducting PCB screening of soil and oil with Clor-N-Soil and Clor-N-Oil kits; and conducting assessment and confirmation sampling of air, waste, soil and equipment to assist with the removal.

## **SOIL AND OIL SCREENING ACTIVITIES**

Tetra Tech START conducted soil and oil screening activities to provide a preliminary on-site determination of the regulatory status of material or product. The Toxic Substances Control Act (TSCA) requires special handling and disposal requirements for substances which contain PCB concentrations greater than 50 parts per million (ppm, equivalent to milligrams per kilogram [mg/kg]). Dexsil brand Clor-

N-Soil and Clor-N-Oil screening kits provide a semi-quantitative determination of PCB content. At the EPA OSC's direction, Tetra Tech collected 33 soil samples and 2 oil samples for screening in accordance with the manufacturer's recommended procedures. The screening sample locations are provided on Figure 3 of Enclosure 1 and a summary of the screening results is provided in Table 1 of Enclosure 2.

## AIR SAMPLE COLLECTION

Suspect asbestos-containing material (ACM) was present on AST appurtenances and on the Southern States Energy property adjacent to the site. Because of the potential for worker exposure, EPA requested that Tetra Tech conduct personnel and perimeter air sampling while on site ACM removal work was conducted by the removal contractor. To assess asbestos levels in the ambient air around the Site, Tetra Tech collected two air samples (DM-AA-SW-TEM-01 and DM-AA-ECW-TEM-01) prior to ACM removal work; air samples were analyzed by transmission electron microscopy (TEM) via National Institute of Occupational Safety and Health (NIOSH) Method 7402. No asbestos fibers were detected in the ambient air samples. During each of the four days of ACM removal work (July 27<sup>th</sup> through July 30<sup>th</sup>) Tetra Tech collected a personnel sample and a perimeter sample for analysis by phase contrast microscopy (PCM) via NIOSH Method 7400. Personnel samples were compared to the Occupational Safety and Health Administration (OSHA) "excursion limit" of 1 asbestos fiber per cubic centimeter (fibers/cm<sup>3</sup>) over a 30 minute time period. Perimeter samples were compared to the NIOSH recommended exposure limit (REL) of 0.1 fibers/cm<sup>3</sup>. No exceedances were detected in any of the air samples. Air sampling was conducted in accordance with EPA Field Branch Quality System and Technical Procedure (FBQSTP): *Ambient Air Sampling* (January 2011). Air sampling locations are depicted on Figure 4 of Enclosure 1. Air sampling results are summarized in Table 2 of Enclosure 2.

## WASTE SAMPLING

Tetra Tech conducted two types of waste sampling at the Delta Mills Site: product (oil) sampling and wipe sampling. The purpose of waste sampling was to determine whether materials should be disposed of as PCB waste or non-PCB waste. Oil with a PCB concentration of greater than 50 ppm was classified as PCB waste; surfaces with a PCB concentration of 100 micrograms per 100 square centimeters ( $\mu\text{g}/100\text{cm}^2$ ) or greater were classified as PCB remediation waste. Oil samples were collected in accordance with FBQSTP *Waste Sampling* (January 2013) and surface wipe samples were collected in accordance with 40 CFR 761.123. Waste samples were analyzed for PCBs by EPA Method 8082. One oil sample (DM-O-001) was collected from a sump pipe adjacent to the pump house on the southern side of the containment area; no PCBs were detected in this sample. A total of 12 wipe samples were collected from demolition waste; PCB results ranged from 1.4 to 183  $\mu\text{g}/100\text{cm}^2$ . Wipe sampling results are summarized in Table 3 of Enclosure 2.

## SOIL SAMPLING

Tetra Tech collected grab and composite surface soil samples from around the site to delineate the initial extent of PCB soil contamination, as well as to verify that site soils were clean at the conclusion of removal operations. Soil samples were collected in accordance with EPA FBQSTP *Soil Sampling* (August 2014) and analyzed by EPA Method 8082. The operational area in and around the site was conceptually divided into an irregular grid based on the site layout (See Figure 5 in Enclosure 1). Areas that initially contained PCBs at concentrations greater than 6 milligrams per kilogram (mg/kg) had a layer of surface material removed and were later resampled to ensure that removal goals had been met. Additionally, one composite sample (DM-S-002-A) was analyzed for ACM content using polarized light microscopy (PLM); no fibers or ACM were detected. Soil sampling locations and results are depicted on Figures 5 and 6 in Enclosure 1. Soil sample results are summarized in Table 4 of Enclosure 2.

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## EQUIPMENT SAMPLING

Tetra Tech conducted wipe sampling on heavy equipment used during the removal operation. The same protocol used for wipe sampling of waste was implemented on pieces of the heavy equipment that came into contact with PCB contamination during the removal. The equipment was found to have been adequately decontaminated, as no PCBs were detected in any of the equipment samples. Equipment samples are summarized in Table 5 of Enclosure 2.

## CONCLUSION

Tetra Tech provided soil, oil, air, waste, and equipment screening and sampling at the Delta Mills Site in support of the removal action conducted by EPA.

Please call John Snyder at (919) 485-2099 if you have any questions regarding this letter report.

Sincerely,



John Snyder  
Tetra Tech START III Project Manager



Andrew F. Johnson  
Tetra Tech START III Program Manager

Enclosures (4)

cc: Katrina Jones, EPA Region 4 Project Officer  
Angel Reed, Tetra Tech START Region 4 Document Control Coordinator  
Karen Bollinger, Tetra Tech START Region 7 Document Control Coordinator

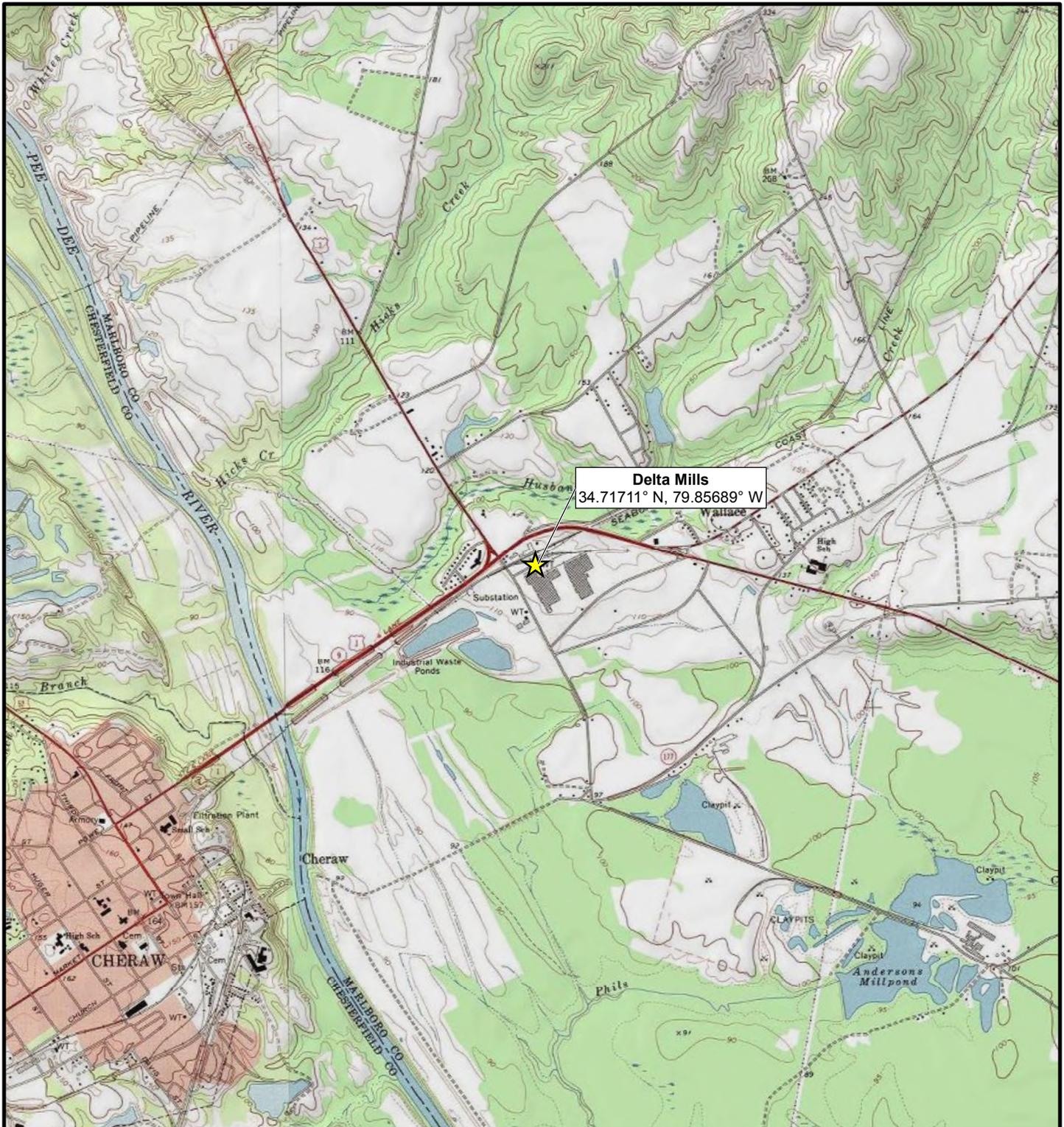
## **ENCLOSURE 1**

### **FIGURES**

(Six Pages)

#### **FIGURE**

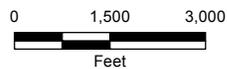
1. SITE LOCATION
2. SITE LAYOUT
3. SOIL AND OIL SCREENING LOCATIONS
4. AIR SAMPLE LOCATIONS
5. SOIL SAMPLE LOCATIONS
6. SOIL SAMPLE LOCATIONS AND TOTAL PCB RESULTS: POST EXCAVATION AND PRIOR TO BACKFILLING



**Delta Mills**  
34.71711° N, 79.85689° W

**Legend**

 Site Location



Map Source:  
USGS Topographic Map: Cheraw,  
SC 1971 and Wallace, SC 1971.



United States  
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Region 4

**FIGURE 1**  
Site Location

**Project Name:** Delta Mills  
**Project No.:** 103X9025144069  
**City:** Wallace      **County:** Marlboro      **State:** South Carolina

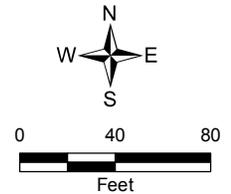


**Date:** 9/22/2014  
**Analyst:** Helen Mayoral



**Legend**

-  Product Piping
-  Approximate Site Boundary
-  Secondary Containment Area
-  Pump House
-  Former Horizontal Tank Farm
-  EPA Staging Area



Notes:

AST Aboveground Storage Tank  
gal Gallon

Map Source:  
ESRI World Imagery, 2011-2012.



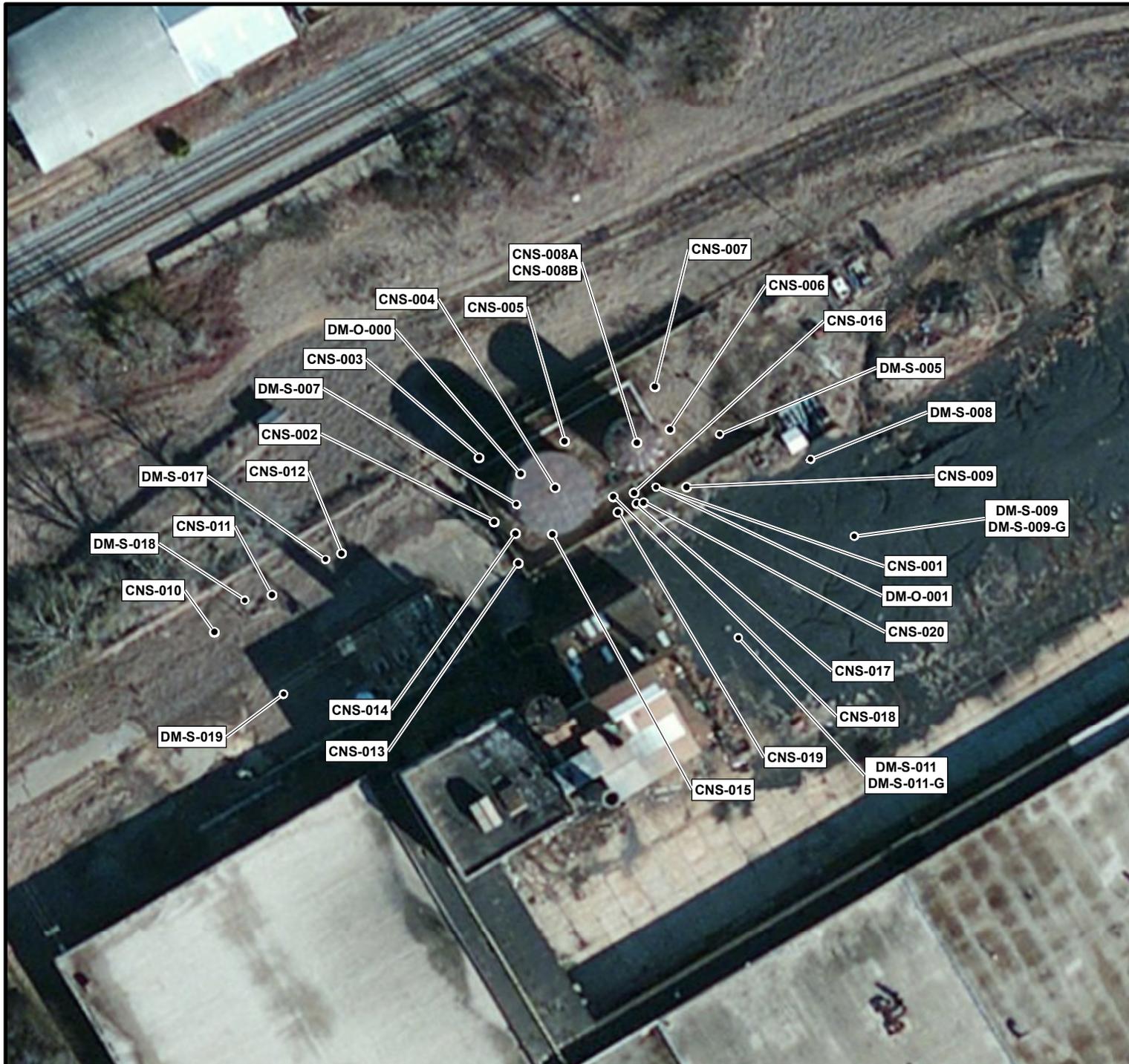
 **United States**  
Environmental Protection Agency  
Region 4

**FIGURE 2**  
Site Layout

**Project Name:** Delta Mills  
**Project No.:** 103X9025144069

**City:** Wallace      **County:** Marlboro      **State:** South Carolina

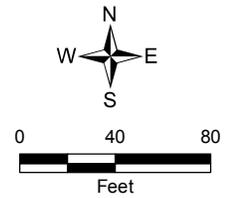
 **TETRA TECH**      **Date:** 9/22/2014  
**Analyst:** Helen.Mayoral



### Legend

- Soil or Oil Screening Locations

See Table 1 in Enclosure 2 for screening results



### Notes:

- AST Aboveground Storage Tank
- CNS Clor-N-Soil
- DM Delta Mills
- G Grab sample
- gal Gallon
- O Oil Sample
- S Soil Sample

Map Source:  
ESRI World Imagery, 2011-2012.



United States  
Environmental Protection Agency  
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### FIGURE 3

Soil and Oil Screening Locations

Project Name: Delta Mills

Project No.: 103X9025144069

City: Wallace County: Marlboro State: South Carolina



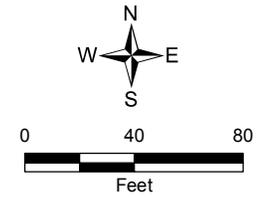
Date:  
9/22/2014  
Analyst:  
Helen.Mayoral



**Legend**

 Air Sample Location

\*Values within the parentheses are collection times.  
 Personnel monitoring samplers were mobile.  
 See Table 1 in Enclosure 2 for screening results.



**Notes:**

- AA Asbestos Air Sample
- DM Delta Mills
- ECW Eastern Containment Wall
- SW Southwest Corner
- TEM Transmission Electron Microscopy
- WA Work Area

Map Source:  
 ESRI World Imagery, 2011-2012.



 **United States Environmental Protection Agency Region 4**

**FIGURE 4**

**Air Sampling Locations**

**Project Name:** Delta Mills

**Project No.:** 103X9025144069

**City:** Wallace      **County:** Marlboro      **State:** South Carolina



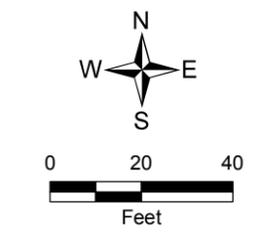
**Date:**  
 9/22/2014  
**Analyst:**  
 Helen.Mayoral



**Legend**

- Grab Soil Sample Location
- ## Grid Number
- Composite Sample Grid

See Table 4 in Enclosure 2 for analytical results.



- Notes:
- A Asbestos sample
  - DM Delta Mills
  - DUP Duplicate
  - G Grab
  - PH Pump House
  - R Re-sample
  - S Surface
  - SF Surface soil

Map Source:  
ESRI World Imagery, 2011-2012.



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**FIGURE 5**  
**Soil Sample Locations**

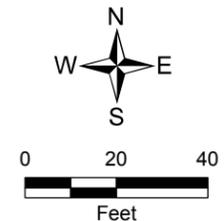
**Project Name:** Delta Mills  
**Project No.:** 103X9025144069

<b>City:</b> Wallace	<b>County:</b> Marlboro	<b>State:</b> South Carolina
-------------------------	----------------------------	---------------------------------

**Date:** 9/22/2014  
**Analyst:** Helen Mayoral



**Legend**  
 ## Grid Number  
 [Red Outline] Composite Sample Grid



**Notes:**  
 DM Delta Mills  
 DUP Duplicate  
 J Estimated Value  
 mg/kg Milligrams per kilogram  
 ND Non-detect  
 NS Not Sampled after being cleaned down to asphalt  
 R Re-sample  
 S Surface

Map Source:  
 ESRI World Imagery, 2011-2012.



United States Environmental Protection Agency  
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**FIGURE 6**  
 Soil Sample Locations and Total PCB Results: Post Excavation and Prior to Backfilling

**Project Name:** Delta Mills  
**Project No.:** 103X9025144069  
**City:** Wallace **County:** Marlboro **State:** South Carolina

**TETRA TECH**  
 Date: 9/25/2014  
 Analyst: helen.mayoral

## **ENCLOSURE 2**

### **TABLES**

(Seven Pages)

#### **TABLE**

- 1 SUMMARY OF SOIL AND OIL SCREENING RESULTS
- 2 ANALYTICAL RESULTS FOR AIR SAMPLES
- 3 ANALYTICAL RESULTS FOR WASTE SAMPLES
- 4 ANALYTICAL RESULTS FOR SOIL SAMPLES
- 5 ANALYTICAL RESULTS FOR EQUIPMENT SAMPLES

**TABLE 1**  
**DELTA MILLS LETTER REPORT**  
**SUMMARY OF SOIL AND OIL SCREENING RESULTS**

SAMPLE ID	DATE COLLECTED	LOCATION	RESULT
DM-O-000	7/23/2014	Grab sample from tanker truck fill line	< 50 ppm
CNS-001	8/11/2014	Grab sample from within secondary containment dike	> 50 ppm
DM-O-001	8/13/2014	Grab sample collected from one of two pipes in sump adjacent to pump house on south side of containment area; southwest pipe (same location as CNS-001)	< 50 ppm
CNS-002	8/11/2014	Grab sample from within secondary containment dike	> 50 ppm
CNS-003	8/11/2014	Grab sample from within secondary containment dike	< 50 ppm
CNS-004	8/11/2014	Grab sample from within secondary containment dike	UTA
CNS-005	8/11/2014	Grab sample from within secondary containment dike	< 50 ppm
CNS-006	8/11/2014	Grab sample from within secondary containment dike	< 50 ppm
CNS-007	8/11/2014	Grab sample from within secondary containment dike	> 50 ppm
CNS-008A	8/14/2014	Grab sample from black-stained soil inside footprint of 300,000-gallon AST	< 50 ppm
CNS-008B	8/14/2014	Grab sample from black-stained soil inside footprint of 300,000-gallon AST	< 50 ppm
CNS-009	8/14/2014	Grab sample from black-stained soil on ramp area leading to secondary containment area	< 50 ppm
CNS-010	8/14/2014	Grab sample from black soil just outside of asphalt road in area of grid DM-S-018	< 50 ppm
CNS-011	8/14/2014	Grab sample from black soil just outside of asphalt road in area of grid DM-S-018	< 50 ppm
CNS-012	8/14/2014	Grab sample from black soil just outside of asphalt road in area of grid DM-S-017	< 50 ppm
CNS-013	8/14/2014	Grab sample from south corner of secondary containment area	< 50 ppm
CNS-014	8/14/2014	Grab sample from south corner of secondary containment area	< 50 ppm
CNS-015	8/14/2014	Grab sample from south side of 500,000-gallon AST	< 50 ppm
CNS-016	8/28/2014	Grab sample from concrete slab in/adjacent to secondary containment area - northeast portion of slab	< 50 ppm
CNS-017	8/28/2014	Grab sample from concrete slab in/adjacent to secondary containment area - next to rebar - southeast portion of slab	> 50 ppm
CNS-018	8/28/2014	Grab sample from concrete slab in/adjacent to secondary containment area - northwest of slab	< 50 ppm
CNS-019	8/28/2014	Grab sample from concrete slab in/adjacent to containment area - eastern portion of slab	< 50 ppm
CNS-020	8/28/2014	Grab sample from concrete slab in/adjacent to containment area - resample in vicinity of CNS-017 after completed scraping of slab to remove residual contamination	< 50 ppm
DM-S-005	8/14/2014	Composite sample also submitted for lab analysis from Grid 5	< 50 ppm
DM-S-007	8/14/2014	Composite sample also submitted for lab analysis from Grid 7	< 50 ppm
DM-S-008	8/14/2014	Composite sample also submitted for lab analysis from Grid 8	< 50 ppm
DM-S-009	8/14/2014	Composite sample also submitted for lab analysis from Grid 9	< 50 ppm
DM-S-009-R1	8/16/2014	Composite sample also submitted for lab analysis from Grid 9	< 50 ppm

**TABLE 1**  
**DELTA MILLS LETTER REPORT**  
**SUMMARY OF SOIL AND OIL SCREENING RESULTS**

SAMPLE ID	DATE COLLECTED	LOCATION	RESULT
DM-S-009-G	8/16/2014	Grab sample also submitted for lab analysis from Grid 9	< 50 ppm
DM-S-011	8/14/2014	Composite sample also submitted for lab analysis from Grid 11	< 50 ppm
DM-S-011-R1	8/16/2014	Composite sample also submitted for lab analysis from Grid 11	< 50 ppm
DM-S-011-G	8/16/2014	Grab sample also submitted for lab analysis from Grid 11	< 50 ppm
DM-S-017	8/14/2014	Composite sample also submitted for lab analysis from Grid 17	< 50 ppm
DM-S-018	8/14/2014	Composite sample also submitted for lab analysis from Grid 18	< 50 ppm
DM-S-019	8/14/2014	Composite sample also submitted for lab analysis from Grid 19	< 50 ppm

Notes:

AST           aboveground storage tank  
CNS           Clor-N-Soil  
DM           Delta Mills  
G             Grab sample  
ID            Identification  
O             Oil sample  
ppm          parts per million  
R             Repeat sample  
S             Soil sample  
UTA          Unable to analyze; sample consistency prevented analysis  
<            less than  
>            greater than

**TABLE 2  
DELTA MILLS LETTER REPORT  
ANALYTICAL RESULTS FOR AIR SAMPLES**

Sample ID	Data Collected	Analysis	Results (fibers/cc)
DM-AA-SW-TEM-01	7/23/2014	TEM	<0.0047
DM-AA-ECW-TEM-01	7/23/2014	TEM	<0.0046
DM-AA-PM-PCM-02	7/27/2014	PCM	0.037
DM-AA-SW-TEM-02	7/27/2014	PCM	<0.003
DM-AA-PM-PCM-03	7/28/2014	PCM	0.091
DM-AA-WA-TEM-03	7/28/2014	PCM	<0.002
DM-AA-PM-PCM-04	7/29/2014	PCM	<0.037
DM-AA-SW-TEM-04	7/29/2014	PCM	<0.002
DM-AA-WA-TEM-05	7/30/2014	PCM	<0.009
DM-AA-PM-PCM-05	7/30/2014	PCM	<0.035

Notes:

AA	Asbestos air sample
DM	Delta Mills
ECW	Eastern containment wall location
fibers/cc	Asbestos fibers per cubic centimeter
PCM	Phase contrast microscopy
PM	Personnel monitoring location
TEM	Transmission electron microscopy
SW	Southwest corner location
WA	Work area
<	less than

**TABLE 3  
DELTA MILLS LETTER REPORT  
ANALYTICAL RESULTS FOR WASTE SAMPLES**

	<b>DM-W-001</b>	<b>DM-W-002</b>	<b>DM-W-003</b>	<b>DM-W-004</b>
<b>Location on 300,000-gallon AST</b>	5 ft. above bottom; left side of eastern main access hole	5 ft. above bottom; right side of eastern main access hole	16 ft. above bottom; miscellaneous piece lying in sawdust mixing area	16 ft. above bottom; miscellaneous piece lying in sawdust mixing area
<b>Polychlorinated biphenyls (<math>\mu\text{g}/100\text{cm}^2</math>)</b>				
Aroclor 1016	5 U	10 U	1 U	5 U
Aroclor 1221	5 U	10 U	1 U	5 U
Aroclor 1232	5 U	10 U	1 U	5 U
Aroclor 1242	5 U	10 U	1 U	5 U
Aroclor 1248	5 U	10 U	1 U	5 U
Aroclor 1254	5 U	10 U	1 U	5 U
Aroclor 1260	24.7	183	6.4	24.9

	<b>DM-W-005</b>	<b>DM-W-006</b>	<b>DM-W-007</b>	<b>DM-W-008</b>
<b>Location on 300,000-gallon AST</b>	16 ft. above bottom; miscellaneous piece lying in sawdust mixing area	20 ft. above bottom; top section of main eastern access hole	20 ft. above bottom; top section of main eastern access hole	16 ft. above bottom; above small southern access hole
<b>Polychlorinated biphenyls (<math>\mu\text{g}/100\text{cm}^2</math>)</b>				
Aroclor 1016	5 U	5 U	1 U	1 U
Aroclor 1221	5 U	5 U	1 U	1 U
Aroclor 1232	5 U	5 U	1 U	1 U
Aroclor 1242	5 U	5 U	1 U	1 U
Aroclor 1248	5 U	5 U	1 U	1 U
Aroclor 1254	5 U	5 U	1 U	1 U
Aroclor 1260	36.1	37.6	16.9	1.6

	<b>DM-W-009</b>	<b>DM-W-010</b>	<b>DM-W-011</b>	<b>DM-W-012</b>
<b>Location on 300,000-gallon AST</b>	16 ft. above bottom; above small southern access hole	Repeat of DM-W-001; after decontamination process	Repeat of DM-W-001; after decontamination process	Repeat of DM-W-005; after decontamination process
<b>Polychlorinated biphenyls (<math>\mu\text{g}/100\text{cm}^2</math>)</b>				
Aroclor 1221	1 U	1 U	1 U	1 U
Aroclor 1232	1 U	1 U	1 U	1 U
Aroclor 1242	1 U	1 U	1 U	1 U
Aroclor 1248	1 U	1 U	1 U	1 U
Aroclor 1254	1 U	1 U	1 U	1 U
Aroclor 1260	2.4	2	1.4	29

Notes:

- AST           aboveground storage tank
- DM           Delta Mills
- ft            feet
- $\mu\text{g}/100\text{cm}^2$    micrograms per 100 square centimeters
- PCB         Polychlorinated biphenyls
- U            The compound was analyzed for but not detected at the reporting limit, which is the reported value
- W            wipe sample

**TABLE 4**  
**DELTA MILLS LETTER REPORT**  
**ANALYTICAL RESULTS FOR SOIL SAMPLES**

Analyte	DM-SF-FillLine	DM-S-001	DM-S-001-R1	DM-S-002	DM-S-002-A	DM-S-003	DM-S-003-DUP	DM-S-004	DM-S-005
<b>Polychlorinated Biphenyls (mg/kg)</b>									
Aroclor 1016	5.63 U	0.177 U	0.0358 U	0.184 U	NA	0.37 U	0.186 U	0.196 U	0.177 U
Aroclor 1221	5.63 U	0.177 U	0.0358 U	0.184 U	NA	0.37 U	0.186 U	0.196 U	0.177 U
Aroclor 1232	5.63 U	0.177 U	0.0358 U	0.184 U	NA	0.37 U	0.186 U	0.196 U	0.177 U
Aroclor 1242	5.63 U	0.177 U	0.0358 U	0.184 U	NA	0.37 U	0.186 U	0.196 U	0.177 U
Aroclor 1248	5.63 U	0.177 U	0.0358 U	0.184 U	NA	0.37 U	0.186 U	0.196 U	0.177 U
Aroclor 1254	5.63 U	0.177 U	0.0312 J	0.184 U	NA	0.37 U	0.186 U	0.196 U	0.177 U
Aroclor 1260	5.63 U	0.177 U	0.0358 U	0.0982 J	NA	2.95 J	1.57 J	0.259	0.319
<b>Inorganic Fibers (fibers per cubic centimeter)</b>									
Asbestos	NA	NA	NA	NA	ND	NA	NA	NA	NA

Analyte	DM-S-006	DM-S-007	DM-S-008	DM-S-008-R1	DM-S-009	DM-S-009-G	DM-S-009-R1	DM-S-010	DM-S-010-PH-G
<b>Polychlorinated Biphenyls (mg/kg)</b>									
Aroclor 1016	0.723 U	0.0356 U	1.37 U	0.342 U	0.359 U	0.368 U	0.351 U	0.893 U	1.91 U
Aroclor 1221	0.723 U	0.0356 U	1.37 U	0.342 U	0.359 U	0.368 U	0.351 U	0.896 U	1.91 U
Aroclor 1232	0.723 U	0.0356 U	1.37 U	0.342 U	0.359 U	0.368 U	0.351 U	0.899 U	1.91 U
Aroclor 1242	0.723 U	0.0356 U	1.37 U	0.342 U	0.359 U	0.368 U	0.351 U	0.902 U	1.91 U
Aroclor 1248	0.723 U	0.0356 U	1.37 U	0.342 U	0.359 U	0.368 U	0.351 U	0.905 U	1.91 U
Aroclor 1254	0.723 U	0.0356 U	1.37 U	0.342 U	0.359 U	0.368 U	0.351 U	0.908 U	1.91 U
Aroclor 1260	5.22	0.523	11.2	0.342 U	3.89	1.2	0.423	6.16	1.91 U

Analyte	DM-S-010-R1	DM-S-011	DM-S-011-R1	DM-S-011-R1-DUP	DM-S-011-G	DM-S-012	DM-S-012-R1	DM-S-013	DM-S-013-R1
<b>Polychlorinated Biphenyls (mg/kg)</b>									
Aroclor 1016	0.0352 U	0.41 U	0.354 U	0.354 U	0.358 U	0.355 U	0.35 U	0.178 U	0.353 U
Aroclor 1221	0.0352 U	0.41 U	0.354 U	0.354 U	0.358 U	0.355 U	0.35 U	0.178 U	0.353 U
Aroclor 1232	0.0352 U	0.41 U	0.354 U	0.354 U	0.358 U	0.355 U	0.35 U	0.178 U	0.353 U
Aroclor 1242	0.0352 U	0.41 U	0.354 U	0.354 U	0.358 U	0.355 U	0.35 U	0.178 U	0.353 U
Aroclor 1248	0.0352 U	0.41 U	1.56	1.74	0.358 U	0.355 U	0.35 U	0.178 U	0.353 U
Aroclor 1254	0.0352 U	0.41 U	0.354 U	0.354 U	0.358 U	0.355 U	0.35 U	0.178 U	0.353 U
Aroclor 1260	0.0358	4.08	0.354 U	0.354 U	0.165 J	3.89	0.35 U	2.02	0.353 U

**TABLE 4**  
**DELTA MILLS LETTER REPORT**  
**ANALYTICAL RESULTS FOR SOIL SAMPLES**

Analyte	DM-S-014	DM-S-014-R1	DM-S-015	DM-S-015-R1	DM-S-016	DM-S-017	DM-S-017-R1	DM-S-018
<b>Polychlorinated Biphenyls (mg/kg)</b>								
Aroclor 1016	1.67 U	0.174 U	1.67 U	0.698 U	0.375 U	1.97 U	0.345 U	1.87 U
Aroclor 1221	1.67 U	0.174 U	1.67 U	0.698 U	0.375 U	1.97 U	0.345 U	1.87 U
Aroclor 1232	1.67 U	0.174 U	1.67 U	0.698 U	0.375 U	1.97 U	0.345 U	1.87 U
Aroclor 1242	1.67 U	0.174 U	1.67 U	0.698 U	0.375 U	1.97 U	0.345 U	1.87 U
Aroclor 1248	1.67 U	0.174 U	1.67 U	0.698 U	0.375 U	1.97 U	0.345 U	1.87 U
Aroclor 1254	1.67 U	0.174 U	1.67 U	0.698 U	0.375 U	1.97 U	0.345 U	1.87 U
Aroclor 1260	13.7	0.981	8.66	4.13	0.414	1.0 J	0.345 U	5.44

Analyte	DM-S-018-R1	DM-S-019	DM-S-020	DM-S-021	DM-S-022	DM-S-Backfill
<b>Polychlorinated Biphenyls (mg/kg)</b>						
Aroclor 1016	0.21 U	0.0331 U	0.0353 U	0.177 U	0.172 U	0.0372 U
Aroclor 1221	0.21 U	0.0331 U	0.0353 U	0.177 U	0.172 U	0.0372 U
Aroclor 1232	0.21 U	0.0331 U	0.0353 U	0.177 U	0.172 U	0.0372 U
Aroclor 1242	0.21 U	0.0331 U	0.0353 U	0.177 U	0.172 U	0.0372 U
Aroclor 1248	0.21 U	0.0331 U	0.0353 U	0.177 U	0.172 U	0.0372 U
Aroclor 1254	0.21 U	0.0331 U	0.0182 J	0.177 U	0.172 U	0.0372 U
Aroclor 1260	0.491	0.126	0.0353 U	0.0942 J	0.738	0.0372 U

Notes:

- DUP duplicate sample
- DM Delta Mills Site
- G grab sample
- J The detected value was above the method detection limit and below the adjusted reporting limit. The value is an estimate.
- mg/kg milligrams per kilogram
- NA not analyzed for
- ND no fibers detected
- PH Pump House location
- R1 Resample #1
- S surface soil sample
- SF surface soil sample
- U The compound was analyzed for but not detected at the reporting limit, which is the reported value

**TABLE 5**  
**DELTA MILLS LETTER REPORT**  
**ANALYTICAL RESULTS FOR EQUIPMENT SAMPLES**

Polychlorinated Biphenyls ( $\mu\text{g}/100\text{cm}^2$ )	DM-W-013 Front end loader bucket	DM-W-014 Trackhoe shears	DM-W-015 Trackhoe hoe ram
PCB-1016 (Aroclor 1016)	1 U	1 U	1 U
PCB-1221 (Aroclor 1221)	1 U	1 U	1 U
PCB-1232 (Aroclor 1232)	1 U	1 U	1 U
PCB-1242 (Aroclor 1242)	1 U	1 U	1 U
PCB-1248 (Aroclor 1248)	1 U	1 U	1 U
PCB-1254 (Aroclor 1254)	1 U	1 U	1 U
PCB-1260 (Aroclor 1260)	1 U	1 U	1 U

Notes:

DM        Delta Mills

$\mu\text{g}/100\text{cm}^2$     micrograms per 100 square centimeters

PCB        Polychlorinated biphenyls

U            The compound was analyzed for but not detected at the reporting limit, which is the reported value

W            Wipe sample

**ENCLOSURE 3**

**LABORATORY ANALYTICAL DATA REPORTS**

(210 Pages)

July 21, 2014

Jessica Vickers  
Tetra Tech  
950 South 4th Street  
Baldwyn, MS 38824

RE: Project: DELTA MILLS  
Pace Project No.: 92209801

Dear Jessica Vickers:

Enclosed are the analytical results for sample(s) received by the laboratory on July 18, 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,



Nicole Benjamin  
nicole.benjamin@pacelabs.com  
Project Manager

Enclosures

cc: Chris Jones, Tetra Tech



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: DELTA MILLS

Pace Project No.: 92209801

---

### **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

---

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: DELTA MILLS  
Pace Project No.: 92209801

---

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92209801001	DM-SF-FILL LINE	Solid	07/17/14 09:15	07/18/14 09:30

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: DELTA MILLS

Pace Project No.: 92209801

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92209801001	DM-SF-FILL LINE	EPA 8082	RES	8	PASI-C
		ASTM D2974-87	AES	1	PASI-C

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: DELTA MILLS  
Pace Project No.: 92209801

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92209801001</b>	<b>DM-SF-FILL LINE</b>					
ASTM D2974-87	Percent Moisture	6.2 %		0.10	07/21/14 13:27	

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: DELTA MILLS

Pace Project No.: 92209801

---

**Method:** EPA 8082

**Description:** 8082 GCS PCB SC

**Client:** Tetra Tech EMI

**Date:** July 21, 2014

**General Information:**

1 sample was analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/28918

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- DM-SF-FILL LINE (Lab ID: 92209801001)
- Decachlorobiphenyl (S)

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

Analyte Comments:

QC Batch: OEXT/28918

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- DM-SF-FILL LINE (Lab ID: 92209801001)
- Decachlorobiphenyl (S)

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: DELTA MILLS

Pace Project No.: 92209801

**Sample: DM-SF-FILL LINE**      **Lab ID: 92209801001**      Collected: 07/17/14 09:15      Received: 07/18/14 09:30      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082    Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	5630	2560	40	07/18/14 14:55	07/21/14 10:46	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	5630	2560	40	07/18/14 14:55	07/21/14 10:46	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	5630	2560	40	07/18/14 14:55	07/21/14 10:46	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	5630	2560	40	07/18/14 14:55	07/21/14 10:46	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	5630	2560	40	07/18/14 14:55	07/21/14 10:46	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	5630	2560	40	07/18/14 14:55	07/21/14 10:46	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	5630	2560	40	07/18/14 14:55	07/21/14 10:46	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		40	07/18/14 14:55	07/21/14 10:46	2051-24-3	D3,S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	<b>6.2</b> %		0.10	0.10	1		07/21/14 13:27		

## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: DELTA MILLS

Pace Project No.: 92209801

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### 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.

PQL - Practical Quantitation 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

### ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

R1 RPD value was outside control limits.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DELTA MILLS  
Pace Project No.: 92209801

---

<b>Lab ID</b>	<b>Sample ID</b>	<b>QC Batch Method</b>	<b>QC Batch</b>	<b>Analytical Method</b>	<b>Analytical Batch</b>
92209801001	DM-SF-FILL LINE	EPA 3546	OEXT/28918	EPA 8082	GCSV/18285
92209801001	DM-SF-FILL LINE	ASTM D2974-87	PMST/6819		

### 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: Tetra Tech

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other \_\_\_\_\_

Optional  
 Proj. Due Date:  
 Proj. Name:

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.: 2.3 °C Biological Tissue is Frozen: Yes No N/A

Date and Initials of person examining contents: ASD 7/18/14

Temp should be above freezing to 6°C

Comments:

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 type="checkbox"/> Yes <input checked="" 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 checked="" type="checkbox"/> Yes <input 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 type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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: [Signature] Date: 7/18/14  
 SRF Review: [Signature] Date: 7/18/14

**WO#: 92209801**

92209801

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)



**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077  
 Phone/Fax: (800) 220-3675 / (856) 786-5974  
<http://www.EMSL.com> [cinnaslab@EMSL.com](mailto:cinnaslab@EMSL.com)

EMSL Order: 041421161  
 CustomerID: pace54  
 CustomerPO:  
 ProjectID:

Attn: **Nicole Benjamin**  
**Pace Analytical Services, Inc**  
**9800 Kincey Avenue, Suite 100**  
**Huntersville, NC 28078**

Phone: (704) 875-9092  
 Fax: (704) 875-9091  
 Received: 07/24/14 9:30 AM  
 Analysis Date: 7/24/2014  
 Collected: 7/23/2014

Project: 92210457 / Delta Mills

**Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM)**  
**Performed by EPA 40 CFR Part 763 Appendix A to Subpart E**

Sample	Location	Volume (Liters)	Area Analyzed (mm <sup>2</sup> )	Non Asb	Asbestos Type(s)	# Structures		Analytical Sensitivity (S/cc)	Asbestos Concentration	
						≥ 0.5μ	< 5μ		(S/mm <sup>2</sup> )	(S/cc)
DM-AA-SW-TEM-01 041421161-0001		894.00	0.0924	0	None Detected			0.0047	<11.00	<0.0047
DM-AA-ECW-TEM-01 041421161-0002		899.00	0.0924	0	None Detected			0.0046	<11.00	<0.0046
DM-AA-FB-TEM-01 041421161-0003			0.1320	0	None Detected			N/A	<7.60	N/A
DM-AA-LB-TEM-01 041421161-0004			0.1320	0	None Detected			N/A	<7.60	N/A

Analyst(s)  
 \_\_\_\_\_  
 Debbie Little (2)  
 Jennifer Mattero (2)

  
 Stephen Siegel, CIH, Laboratory Manager  
 or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMSL is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. Samples received in good condition unless otherwise noted. The test results meet the requirements of NELAC unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.  
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Report Amended: 07/24/2014 18:00:25 Replaces Report Amended: . Reason Code: Client-Samples Added

July 29, 2014

Jessica Vickers  
Tetra Tech  
950 South 4th Street  
Baldwyn, MS 38824

RE: Project: Delta Mills  
Pace Project No.: 92210931

Dear Jessica Vickers:

Enclosed are the analytical results for sample(s) received by the laboratory on July 29, 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.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

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

Sincerely,



Nicole Benjamin  
nicole.benjamin@pacelabs.com  
Project Manager

Enclosures

cc: Chris Jones, Tetra Tech



## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Delta Mills  
Pace Project No.: 92210931

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92210931001	DM-AA-PM-PCM-02	Air	07/27/14 12:12	07/29/14 08:55
92210931002	DM-AA-SW-TEM-02	Air	07/27/14 13:50	07/29/14 08:55
92210931003	DM-AA-PM-PCM-03	Air	07/28/14 08:10	07/29/14 08:55
92210931004	DM-AA-WA-TEM-03	Air	07/28/14 14:33	07/29/14 08:55

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project:  
Pace Project No.:

---

**Method:**  
**Description:**  
**Client:**  
**Date:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com>[cinnaslab@EMSL.com](mailto:cinnaslab@EMSL.com)

EMSL Order: 041421673

CustomerID: pace54

CustomerPO:

ProjectID:

Attn: **Nicole Benjamin**  
**Pace Analytical Services, Inc**  
**9800 Kincey Avenue, Suite 100**  
**Huntersville, NC 28078**

Phone: (704) 875-9092  
 Fax: (704) 875-9091  
 Received: 07/29/14 10:53 AM  
 Analysis Date: 7/29/2014  
 Collected: 7/28/2014

Project: **Delta Mills / 1955 Evergreen Blvd Bldg 200 Suite 300 , Duluth GA 30096**

### Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method, Revision 3, Issue 2, 8/15/94\*

Sample	Location	Sample Date	Volume (liters)	Fibers	Fields	LOD (fib/cc)	Fibers/mm <sup>2</sup>	Fibers/cc	Notes
DM-AA-PM-PCM-02 041421673-0001	Personal Monitoring	7/27/2014	93.02	7	100	0.029	8.92	0.037	
DM-AA-SW-TEM-02 041421673-0002	Personal Monitoring	7/27/2014	843.80	<5.5	100	0.003	<7.01	<0.003	
DM-AA-PM-PCM-03 041421673-0003	Personal Monitoring	7/28/2014	85.80	16	100	0.031	20.4	0.091	
DM-AA-WA-TEM-03 041421673-0004	Personal Monitoring	7/28/2014	1102.45	<5.5	100	0.002	<7.01	<0.002	

No discernable field blanks submitted with this sample set.

Analyst(s)

Susan Muir (4)

Stephen Siegel, CIH, Laboratory Manager  
or other approved signatory

Limit of detection is 7 fibers/mm<sup>2</sup>. Intra-laboratory Sr values: 5-20 fibers = 0.31, 21-50 fibers = 0.30, 51-100 fibers = 0.25. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.29. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. EMSL is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. Results have been blank corrected as applicable. The results in this report meet all requirements of the NELAC standards unless otherwise noted. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NYS ELAP 10872, AIHA-LAP, LLC--IHLAP Accredited #100194, NJ DEP 03036, PA ID# 68-00367

Initial report from 07/29/2014 15:32:19



July 30, 2014

Jessica Vickers  
Tetra Tech  
950 South 4th Street  
Baldwyn, MS 38824

RE: Project: DELTA MILLS  
Pace Project No.: 92211191

Dear Jessica Vickers:

Enclosed are the analytical results for sample(s) received by the laboratory on July 30, 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.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

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

Sincerely,



Nicole Benjamin  
nicole.benjamin@pacelabs.com  
Project Manager

Enclosures

cc: Chris Jones, Tetra Tech



## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: DELTA MILLS

Pace Project No.: 92211191

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92211191001	DM-LB-PCM-04	Air	07/29/14 00:00	07/30/14 09:30
92211191002	DM-FB-PCM-04	Air	07/29/14 00:00	07/30/14 09:30
92211191003	DM-AA-PM-PCM-04	Air	07/29/14 07:49	07/30/14 09:30
92211191004	DM-AA-WA-TEM-04	Air	07/29/14 14:23	07/30/14 09:30

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project:  
Pace Project No.:

---

**Method:**  
**Description:**  
**Client:**  
**Date:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com>[cinnasblab@EMSL.com](mailto:cinnasblab@EMSL.com)

EMSL Order: 041421801

CustomerID: pace54

CustomerPO:

ProjectID:

Attn: **Nicole Benjamin**  
**Pace Analytical Services, Inc**  
**9800 Kincey Avenue, Suite 100**  
**Huntersville, NC 28078**

Phone: (704) 875-9092  
 Fax: (704) 875-9091  
 Received: 07/30/14 8:00 AM  
 Analysis Date: 7/30/2014  
 Collected: 7/29/2014

Project: **Delta Mills**

### Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method, Revision 3, Issue 2, 8/15/94\*

Sample	Location	Sample Date	Volume (liters)	Fibers	Fields	LOD (fib/cc)	Fibers/mm <sup>2</sup>	Fibers/cc	Notes
DM-LB-PCM-04 041421801-0001	Lot blank	7/29/2014		<5.5	100		<7.01		Field Blank
DM-FB-PCM-04 041421801-0002	Field blank	7/29/2014		<5.5	100		<7.01		Field Blank
DM-AA-PM-PCM-04 041421801-0003	Personnel monitoring	7/29/2014	72.90	<5.5	100	0.037	<7.01	<0.037	
DM-AA-WA-TEM-04 041421801-0004	Perimeter monitoring	7/29/2014	1134.46	<5.5	100	0.002	<7.01	<0.002	

The results reported have been blank corrected as applicable.

Analyst(s)

Susan Muir (4)Stephen Siegel, CIH, Laboratory Manager  
or other approved signatory

Limit of detection is 7 fibers/mm<sup>2</sup>. Intra-laboratory Sr values: 5-20 fibers = 0.31, 21-50 fibers = 0.30, 51-100 fibers = 0.25. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.29. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. EMSL is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. Results have been blank corrected as applicable. The results in this report meet all requirements of the NELAC standards unless otherwise noted. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NYS ELAP 10872, AIHA-LAP, LLC--IHLAP Accredited #100194, NJ DEP 03036, PA ID# 68-00367

Initial report from 07/30/2014 15:40:35



August 01, 2014

Jessica Vickers  
Tetra Tech  
950 South 4th Street  
Baldwyn, MS 38824

RE: Project: Delta Mills  
Pace Project No.: 92211369

Dear Jessica Vickers:

Enclosed are the analytical results for sample(s) received by the laboratory on July 31, 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.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

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

Sincerely,



Nicole Benjamin  
nicole.benjamin@pacelabs.com  
Project Manager

Enclosures

cc: Chris Jones, Tetra Tech



## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Delta Mills  
Pace Project No.: 92211369

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
92211369001	DM-AA-WA-TEM-05	Air	07/30/14 09:05	07/31/14 09:00
92211369002	DM-AA-PM-PCM-05	Air	07/30/14 08:29	07/31/14 09:00

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project:  
Pace Project No.:

---

**Method:**  
**Description:**  
**Client:**  
**Date:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com>[cinnaslab@EMSL.com](mailto:cinnaslab@EMSL.com)

EMSL Order: 041421993

CustomerID: pace54

CustomerPO: 13588

ProjectID:

Attn: **Nicole Benjamin**  
**Pace Analytical Services, Inc**  
**9800 Kincey Avenue, Suite 100**  
**Huntersville, NC 28078**

Phone: (704) 875-9092  
 Fax: (704) 875-9091  
 Received: 07/31/14 9:20 AM  
 Analysis Date: 7/31/2014  
 Collected: 7/30/2014

Project: **Delta Mills**

### Test Report: Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method, Revision 3, Issue 2, 8/15/94\*

Sample	Location	Sample Date	Volume (liters)	Fibers	Fields	LOD (fib/cc)	Fibers/mm <sup>2</sup>	Fibers/cc	Notes
DM-AA-WA-TEM-05 041421993-0001	Work area perimeter	7/30/2014	304.02	<5.5	100	0.009	<7.01	<0.009	
DM-AA-PM-PCM-05 041421993-0002	Personal monitoring	7/30/2014	77.37	<5.5	100	0.035	<7.01	<0.035	

No discernable field blanks submitted with this sample set.

Analyst(s)

Susan Muir (2)Stephen Siegel, CIH, Laboratory Manager  
or other approved signatory

Limit of detection is 7 fibers/mm<sup>2</sup>. Intra-laboratory Sr values: 5-20 fibers = 0.31, 21-50 fibers = 0.30, 51-100 fibers = 0.25. Inter-laboratory Sr values (Average of EMSL round robin data) = 0.29. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. EMSL is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. Results have been blank corrected as applicable. The results in this report meet all requirements of the NELAC standards unless otherwise noted. Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NYS ELAP 10872, AIHA-LAP, LLC--IHLAP Accredited #100194, NJ DEP 03036, PA ID# 68-00367

Initial report from 07/31/2014 22:22:36



# EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com>

[cinnasblab@EMSL.com](mailto:cinnasblab@EMSL.com)

EMSL Order:	041421993
CustomerID:	pace54
CustomerPO:	13588
ProjectID:	

Attn: **Nicole Benjamin**  
**Pace Analytical Services, Inc**  
**9800 Kincey Avenue, Suite 100**  
**Huntersville, NC 28078**

Phone: (704) 875-9092  
 Fax: (704) 875-9091  
 Received: 07/31/14 9:20 AM  
 Analysis Date: 7/31/2014  
 Collected: 7/30/2014

Project: **Delta Mills**

## Test Report: Asbestos Analysis of Air Samples by Transmission Electron Microscopy via NIOSH Method 7402

Sample	Volume (Liters)	Non Asbestos Fibers	PCM F/cc	Asbestos Type(s)	Asbestos Fibers	Asbestos % of total	7402 Adjusted (TEM) F/cc	Notes
DM-AA-WA-TEM-05 041421993-0001	304.02	7	<0.009			0	<0.009	

NIOSH 7402 method only reports fibers > 5µm in length and > 0.25µm in width. This method requires a minimum of 2 field blanks analyses per set. The results above are blank corrected when possible. Average number of asbestos fibers on field blanks: n/a  
 Average number of non-asbestos fibers on field blanks: n/a

Analyst(s)  
 \_\_\_\_\_  
 Wayne Froehlich (1)

  
 \_\_\_\_\_  
 Stephen Siegel, CIH, Laboratory Manager  
 or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. The test results contained within this report meet the requirements of NELAP unless otherwise noted. Samples received in good condition unless otherwise noted. The analyses above were performed with a JOEL 100 CX II Transmission Electron Microscope (TEM) outfitted with a PGT/IXRF Energy Dispersive X-Ray Analysis (EDXA) System.  
 Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from 07/31/2014 22:22:40



August 05, 2014

Jessica Vickers  
Tetra Tech  
950 South 4th Street  
Baldwyn, MS 38824

RE: Project: Delta Mills  
Pace Project No.: 92211819

Dear Jessica Vickers:

Enclosed are the analytical results for sample(s) received by the laboratory on August 04, 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,



Nicole Benjamin  
nicole.benjamin@pacelabs.com  
Project Manager

Enclosures

cc: Chris Jones, Tetra Tech



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Delta Mills

Pace Project No.: 92211819

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Delta Mills

Pace Project No.: 92211819

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92211819001	DM-W-001	Wipe	08/04/14 14:05	08/04/14 17:00
92211819002	DM-W-002	Wipe	08/04/14 14:06	08/04/14 17:00
92211819003	DM-W-003	Wipe	08/04/14 14:07	08/04/14 17:00
92211819004	DM-W-004	Wipe	08/04/14 14:08	08/04/14 17:00
92211819005	DM-W-005	Wipe	08/04/14 14:09	08/04/14 17:00

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Delta Mills

Pace Project No.: 92211819

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92211819001	DM-W-001	EPA 8082	RES	8	PASI-C
92211819002	DM-W-002	EPA 8082	RES	8	PASI-C
92211819003	DM-W-003	EPA 8082	RES	8	PASI-C
92211819004	DM-W-004	EPA 8082	RES	8	PASI-C
92211819005	DM-W-005	EPA 8082	RES	8	PASI-C

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Delta Mills

Pace Project No.: 92211819

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92211819001</b>	<b>DM-W-001</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	24.7	Total ug	5.0	08/05/14 09:40	
<b>92211819002</b>	<b>DM-W-002</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	183	Total ug	10.0	08/05/14 13:47	
<b>92211819003</b>	<b>DM-W-003</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	6.4	Total ug	1.0	08/05/14 10:21	
<b>92211819004</b>	<b>DM-W-004</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	24.9	Total ug	5.0	08/05/14 10:42	
<b>92211819005</b>	<b>DM-W-005</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	36.1	Total ug	5.0	08/05/14 11:03	

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Delta Mills  
Pace Project No.: 92211819

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**Method:** EPA 8082  
**Description:** 8082 GCS PCB  
**Client:** Tetra Tech EMI  
**Date:** August 05, 2014

**General Information:**

5 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 3580 (Wipe) with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/29205

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- DM-W-001 (Lab ID: 92211819001)
  - Decachlorobiphenyl (S)
- DM-W-002 (Lab ID: 92211819002)
  - Decachlorobiphenyl (S)
- DM-W-004 (Lab ID: 92211819004)
  - Decachlorobiphenyl (S)
- DM-W-005 (Lab ID: 92211819005)
  - Decachlorobiphenyl (S)

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Delta Mills

Pace Project No.: 92211819

Sample: <b>DM-W-001</b>		Lab ID: <b>92211819001</b>		Collected: 08/04/14 14:05	Received: 08/04/14 17:00	Matrix: Wipe			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b>		Analytical Method: EPA 8082 Preparation Method: EPA 3580 (Wipe)							
PCB-1016 (Aroclor 1016)	ND Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 09:40	12674-11-2	
PCB-1221 (Aroclor 1221)	ND Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 09:40	11104-28-2	
PCB-1232 (Aroclor 1232)	ND Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 09:40	11141-16-5	
PCB-1242 (Aroclor 1242)	ND Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 09:40	53469-21-9	
PCB-1248 (Aroclor 1248)	ND Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 09:40	12672-29-6	
PCB-1254 (Aroclor 1254)	ND Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 09:40	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>24.7</b> Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 09:40	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		70-130		5	08/05/14 08:04	08/05/14 09:40	2051-24-3	S4

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Delta Mills

Pace Project No.: 92211819

Sample: <b>DM-W-002</b>		Lab ID: <b>92211819002</b>		Collected: 08/04/14 14:06	Received: 08/04/14 17:00	Matrix: Wipe			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b>		Analytical Method: EPA 8082 Preparation Method: EPA 3580 (Wipe)							
PCB-1016 (Aroclor 1016)	ND Total ug		10.0	10.0	10	08/05/14 08:04	08/05/14 13:47	12674-11-2	
PCB-1221 (Aroclor 1221)	ND Total ug		10.0	10.0	10	08/05/14 08:04	08/05/14 13:47	11104-28-2	
PCB-1232 (Aroclor 1232)	ND Total ug		10.0	10.0	10	08/05/14 08:04	08/05/14 13:47	11141-16-5	
PCB-1242 (Aroclor 1242)	ND Total ug		10.0	10.0	10	08/05/14 08:04	08/05/14 13:47	53469-21-9	
PCB-1248 (Aroclor 1248)	ND Total ug		10.0	10.0	10	08/05/14 08:04	08/05/14 13:47	12672-29-6	
PCB-1254 (Aroclor 1254)	ND Total ug		10.0	10.0	10	08/05/14 08:04	08/05/14 13:47	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>183</b> Total ug		10.0	10.0	10	08/05/14 08:04	08/05/14 13:47	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		70-130		10	08/05/14 08:04	08/05/14 13:47	2051-24-3	S4

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Delta Mills

Pace Project No.: 92211819

**Sample: DM-W-003**      **Lab ID: 92211819003**      Collected: 08/04/14 14:07      Received: 08/04/14 17:00      Matrix: Wipe

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8082 GCS PCB</b>									
Analytical Method: EPA 8082    Preparation Method: EPA 3580 (Wipe)									
PCB-1016 (Aroclor 1016)	ND Total ug		1.0	1.0	1	08/05/14 08:04	08/05/14 10:21	12674-11-2	
PCB-1221 (Aroclor 1221)	ND Total ug		1.0	1.0	1	08/05/14 08:04	08/05/14 10:21	11104-28-2	
PCB-1232 (Aroclor 1232)	ND Total ug		1.0	1.0	1	08/05/14 08:04	08/05/14 10:21	11141-16-5	
PCB-1242 (Aroclor 1242)	ND Total ug		1.0	1.0	1	08/05/14 08:04	08/05/14 10:21	53469-21-9	
PCB-1248 (Aroclor 1248)	ND Total ug		1.0	1.0	1	08/05/14 08:04	08/05/14 10:21	12672-29-6	
PCB-1254 (Aroclor 1254)	ND Total ug		1.0	1.0	1	08/05/14 08:04	08/05/14 10:21	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>6.4</b> Total ug		1.0	1.0	1	08/05/14 08:04	08/05/14 10:21	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	87 %		70-130		1	08/05/14 08:04	08/05/14 10:21	2051-24-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Delta Mills

Pace Project No.: 92211819

**Sample: DM-W-004**      **Lab ID: 92211819004**      Collected: 08/04/14 14:08      Received: 08/04/14 17:00      Matrix: Wipe

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8082 GCS PCB</b>									
Analytical Method: EPA 8082    Preparation Method: EPA 3580 (Wipe)									
PCB-1016 (Aroclor 1016)	ND Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 10:42	12674-11-2	
PCB-1221 (Aroclor 1221)	ND Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 10:42	11104-28-2	
PCB-1232 (Aroclor 1232)	ND Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 10:42	11141-16-5	
PCB-1242 (Aroclor 1242)	ND Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 10:42	53469-21-9	
PCB-1248 (Aroclor 1248)	ND Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 10:42	12672-29-6	
PCB-1254 (Aroclor 1254)	ND Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 10:42	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>24.9</b> Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 10:42	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		70-130		5	08/05/14 08:04	08/05/14 10:42	2051-24-3	S4

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Delta Mills

Pace Project No.: 92211819

Sample: <b>DM-W-005</b>		Lab ID: <b>92211819005</b>		Collected: 08/04/14 14:09	Received: 08/04/14 17:00	Matrix: Wipe			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b>		Analytical Method: EPA 8082 Preparation Method: EPA 3580 (Wipe)							
PCB-1016 (Aroclor 1016)	ND Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 11:03	12674-11-2	
PCB-1221 (Aroclor 1221)	ND Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 11:03	11104-28-2	
PCB-1232 (Aroclor 1232)	ND Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 11:03	11141-16-5	
PCB-1242 (Aroclor 1242)	ND Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 11:03	53469-21-9	
PCB-1248 (Aroclor 1248)	ND Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 11:03	12672-29-6	
PCB-1254 (Aroclor 1254)	ND Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 11:03	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>36.1</b> Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 11:03	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		70-130		5	08/05/14 08:04	08/05/14 11:03	2051-24-3	S4

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Delta Mills  
Pace Project No.: 92211819

QC Batch: OEXT/29205 Analysis Method: EPA 8082  
QC Batch Method: EPA 3580 (Wipe) Analysis Description: 8082 GCS PCB Wipe  
Associated Lab Samples: 92211819001, 92211819002, 92211819003, 92211819004, 92211819005

METHOD BLANK: 1256353 Matrix: Wipe  
Associated Lab Samples: 92211819001, 92211819002, 92211819003, 92211819004, 92211819005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	Total ug	ND	1.0	08/05/14 08:38	
PCB-1221 (Aroclor 1221)	Total ug	ND	1.0	08/05/14 08:38	
PCB-1232 (Aroclor 1232)	Total ug	ND	1.0	08/05/14 08:38	
PCB-1242 (Aroclor 1242)	Total ug	ND	1.0	08/05/14 08:38	
PCB-1248 (Aroclor 1248)	Total ug	ND	1.0	08/05/14 08:38	
PCB-1254 (Aroclor 1254)	Total ug	ND	1.0	08/05/14 08:38	
PCB-1260 (Aroclor 1260)	Total ug	ND	1.0	08/05/14 08:38	
Decachlorobiphenyl (S)	%	88	70-130	08/05/14 08:38	

LABORATORY CONTROL SAMPLE & LCSD: 1256354

Parameter	Units	1256355								
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	Total ug	10	9.5	10	95	100	70-130	5	30	
PCB-1260 (Aroclor 1260)	Total ug	10	9.0	9.3	90	93	70-130	3	30	
Decachlorobiphenyl (S)	%				90	91	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Delta Mills

Pace Project No.: 92211819

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### 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.

PQL - Practical Quantitation 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

### ANALYTE QUALIFIERS

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Delta Mills

Pace Project No.: 92211819

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92211819001	DM-W-001	EPA 3580 (Wipe)	OEXT/29205	EPA 8082	GCSV/18447
92211819002	DM-W-002	EPA 3580 (Wipe)	OEXT/29205	EPA 8082	GCSV/18447
92211819003	DM-W-003	EPA 3580 (Wipe)	OEXT/29205	EPA 8082	GCSV/18447
92211819004	DM-W-004	EPA 3580 (Wipe)	OEXT/29205	EPA 8082	GCSV/18447
92211819005	DM-W-005	EPA 3580 (Wipe)	OEXT/29205	EPA 8082	GCSV/18447

### REPORT OF LABORATORY ANALYSIS

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Client Name: Protra Tech

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.: N/A °C Biological Tissue is Frozen: Yes No **N/A**

Temp should be above freezing to 6°C

Optional  
 Proj. Due Date:  
 Proj. Name:

Date and Initials of person examining contents: pr 8-4-14

		Comments:
Chain of Custody Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" 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 checked="" type="checkbox"/> Yes <input 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:	<u>no</u> <input checked="" type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> No	
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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: NS Date: 8/4/14  
 SRF Review: KHA Date: 8/5/14

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)

Place label here  
**WO#: 92211819**  
  
 92211819



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

61817226

Page: 1 of 1

**Section A**  
**Required Client Information:**  
 Company: Tetra Tech Inc  
 Address: 1455 Eisenhower Blvd  
 Email To: Duluth, GA 30096  
 Phone: Jessica Jackson  
662.681.5767  
 Requested Due Date/TAT: ASAP

**Section B**  
**Required Project Information:**  
 Report To: Jessica Jackson @ tetratech.com  
 Copy To: Brian.Cole@tetratech.com  
 Purchase Order No.:  
 Project Name: Delta Mills  
 Project Number:

**Section C**  
**Invoice Information:**  
 Attention:  
 Company Name:  
 Address:  
 Pace Quote Reference:  
 Pace Project Manager:  
 Pace Profile #:

**REGULATORY AGENCY**  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER

Site Location  
 STATE:

ITEM #	Section D Required Client Information	Matrix Codes MATRIX I CODE	Matrix Codes DW WT WW P SL OL WP AR TS OT	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see vialin code to left)	# OF CONTAINERS	Preservatives	Analysis Test ↑ Y/N	Requested Analysis Filtered (Y/N)		Pace Project No. / Lab I.D.
				COMPOSITE START	COMPOSITE END/GRAB						DATE	TIME	
1	DM-W-001	Drinking Water	DW	WP	8/14/14	1405	WP	1	Unpreserved				001
2	DM-W-002	Water	WT	WP	8/14/14	1406	WP	1	H <sub>2</sub> SO <sub>4</sub>				002
3	DM-W-003	Waste Water	WW	WP	8/14/14	1407	WP	1	HCl				003
4	DM-W-004	Product	P	WP	8/14/14	1408	WP	1	HNO <sub>3</sub>				004
5	DM-W-005	Soil/Solid	SL	WP	8/14/14	1409	WP	1	NaOH				005
6		Oil	OL						Methanol				
7		Wipe	WP						Other - hexane				
8		Air	AR										
9		Tissue	TS										
10		Other	OT										
11													
12													

Residual Chlorine (Y/N)

ACCEPTED BY / AFFILIATION: BAVMALE DATE: 8/14/14 TIME: 1700

RELINQUISHED BY / AFFILIATION: BSCA DATE: 8/14/14 TIME: 1700

RECEIVED BY / AFFILIATION: MAW DATE: 8/14/14 TIME: 1700

Temp in °C

Sealed Cooler (Y/N)

Custody (Y/N)

Samples Intact (Y/N)

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: Brian S. Cole

SIGNATURE of SAMPLER: Brian S. Cole

DATE Signed (MM/DD/YY): 8/14

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

August 07, 2014

Jessica Vickers  
Tetra Tech  
950 South 4th Street  
Baldwyn, MS 38824

RE: Project: Delta Mills PCBs  
Pace Project No.: 92212153

Dear Jessica Vickers:

Enclosed are the analytical results for sample(s) received by the laboratory on August 06, 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,



Nicole Benjamin  
nicole.benjamin@pacelabs.com  
Project Manager

Enclosures

cc: Chris Jones, Tetra Tech



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Delta Mills PCBs

Pace Project No.: 92212153

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### **Charlotte Certification IDs**

9800 Kinsey 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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Delta Mills PCBs

Pace Project No.: 92212153

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
92212153001	DM-W-006	Wipe	08/06/14 09:40	08/06/14 12:25
92212153002	DM-W-007	Wipe	08/06/14 09:41	08/06/14 12:25
92212153003	DM-W-008	Wipe	08/06/14 09:50	08/06/14 12:25
92212153004	DM-W-009	Wipe	08/06/14 09:51	08/06/14 12:25

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Delta Mills PCBs

Pace Project No.: 92212153

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92212153001	DM-W-006	EPA 8082	RES	8	PASI-C
92212153002	DM-W-007	EPA 8082	RES	8	PASI-C
92212153003	DM-W-008	EPA 8082	RES	8	PASI-C
92212153004	DM-W-009	EPA 8082	RES	8	PASI-C

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Delta Mills PCBs

Pace Project No.: 92212153

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92212153001</b>	<b>DM-W-006</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	37.6	Total ug	5.0	08/06/14 15:47	
<b>92212153002</b>	<b>DM-W-007</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	16.9	Total ug	1.0	08/06/14 16:07	
<b>92212153003</b>	<b>DM-W-008</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	1.6	Total ug	1.0	08/06/14 16:28	
<b>92212153004</b>	<b>DM-W-009</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	2.4	Total ug	1.0	08/06/14 16:48	

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## PROJECT NARRATIVE

Project: Delta Mills PCBs

Pace Project No.: 92212153

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**Method:** EPA 8082

**Description:** 8082 GCS PCB

**Client:** Tetra Tech EMI

**Date:** August 07, 2014

**General Information:**

4 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 3580 (Wipe) with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/29238

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- DM-W-006 (Lab ID: 92212153001)
- Decachlorobiphenyl (S)

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Delta Mills PCBs

Pace Project No.: 92212153

**Sample: DM-W-006**      **Lab ID: 92212153001**      Collected: 08/06/14 09:40      Received: 08/06/14 12:25      Matrix: Wipe

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8082 GCS PCB</b>									
Analytical Method: EPA 8082    Preparation Method: EPA 3580 (Wipe)									
PCB-1016 (Aroclor 1016)	ND Total ug		5.0	5.0	5	08/06/14 13:31	08/06/14 15:47	12674-11-2	
PCB-1221 (Aroclor 1221)	ND Total ug		5.0	5.0	5	08/06/14 13:31	08/06/14 15:47	11104-28-2	
PCB-1232 (Aroclor 1232)	ND Total ug		5.0	5.0	5	08/06/14 13:31	08/06/14 15:47	11141-16-5	
PCB-1242 (Aroclor 1242)	ND Total ug		5.0	5.0	5	08/06/14 13:31	08/06/14 15:47	53469-21-9	
PCB-1248 (Aroclor 1248)	ND Total ug		5.0	5.0	5	08/06/14 13:31	08/06/14 15:47	12672-29-6	
PCB-1254 (Aroclor 1254)	ND Total ug		5.0	5.0	5	08/06/14 13:31	08/06/14 15:47	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>37.6</b> Total ug		5.0	5.0	5	08/06/14 13:31	08/06/14 15:47	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		70-130		5	08/06/14 13:31	08/06/14 15:47	2051-24-3	S4

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Delta Mills PCBs

Pace Project No.: 92212153

Sample: <b>DM-W-007</b>		Lab ID: <b>92212153002</b>		Collected: 08/06/14 09:41	Received: 08/06/14 12:25	Matrix: Wipe			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b>		Analytical Method: EPA 8082 Preparation Method: EPA 3580 (Wipe)							
PCB-1016 (Aroclor 1016)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:07	12674-11-2	
PCB-1221 (Aroclor 1221)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:07	11104-28-2	
PCB-1232 (Aroclor 1232)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:07	11141-16-5	
PCB-1242 (Aroclor 1242)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:07	53469-21-9	
PCB-1248 (Aroclor 1248)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:07	12672-29-6	
PCB-1254 (Aroclor 1254)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:07	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>16.9</b> Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:07	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	118 %		70-130		1	08/06/14 13:31	08/06/14 16:07	2051-24-3	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Delta Mills PCBs

Pace Project No.: 92212153

**Sample: DM-W-008**      **Lab ID: 92212153003**      Collected: 08/06/14 09:50      Received: 08/06/14 12:25      Matrix: Wipe

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8082 GCS PCB</b>									
Analytical Method: EPA 8082    Preparation Method: EPA 3580 (Wipe)									
PCB-1016 (Aroclor 1016)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:28	12674-11-2	
PCB-1221 (Aroclor 1221)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:28	11104-28-2	
PCB-1232 (Aroclor 1232)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:28	11141-16-5	
PCB-1242 (Aroclor 1242)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:28	53469-21-9	
PCB-1248 (Aroclor 1248)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:28	12672-29-6	
PCB-1254 (Aroclor 1254)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:28	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>1.6</b> Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:28	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	113 %		70-130		1	08/06/14 13:31	08/06/14 16:28	2051-24-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Delta Mills PCBs

Pace Project No.: 92212153

Sample: <b>DM-W-009</b>		Lab ID: <b>92212153004</b>		Collected: 08/06/14 09:51	Received: 08/06/14 12:25	Matrix: Wipe			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b>		Analytical Method: EPA 8082 Preparation Method: EPA 3580 (Wipe)							
PCB-1016 (Aroclor 1016)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:48	12674-11-2	
PCB-1221 (Aroclor 1221)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:48	11104-28-2	
PCB-1232 (Aroclor 1232)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:48	11141-16-5	
PCB-1242 (Aroclor 1242)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:48	53469-21-9	
PCB-1248 (Aroclor 1248)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:48	12672-29-6	
PCB-1254 (Aroclor 1254)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:48	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>2.4</b> Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:48	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	113 %		70-130		1	08/06/14 13:31	08/06/14 16:48	2051-24-3	

## REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc..



## QUALIFIERS

Project: Delta Mills PCBs

Pace Project No.: 92212153

---

### 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.

PQL - Practical Quantitation 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

### ANALYTE QUALIFIERS

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

## REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc..

### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Delta Mills PCBs  
Pace Project No.: 92212153

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92212153001	DM-W-006	EPA 3580 (Wipe)	OEXT/29238	EPA 8082	GCSV/18465
92212153002	DM-W-007	EPA 3580 (Wipe)	OEXT/29238	EPA 8082	GCSV/18465
92212153003	DM-W-008	EPA 3580 (Wipe)	OEXT/29238	EPA 8082	GCSV/18465
92212153004	DM-W-009	EPA 3580 (Wipe)	OEXT/29238	EPA 8082	GCSV/18465

### 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, 2011  
 Page 1 of 2  
 Issuing Authority:  
 Pace Huntersville Quality Office

Client Name: Tracy Tech

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other \_\_\_\_\_

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

Optional  
 Proj. Due Date:  
 Proj. Name:

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.: MA °C Biological Tissue is Frozen: Yes No N/A  
 Temp should be above freezing to 6°C

Date and Initials of person examining contents: unk 8/16/14

	Comments:
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 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 type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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: [Signature] Date: 8/16/14  
 SRF Review: [Signature] Date: 8/17/14

Place label here  
 OR  
 Handwrite project number  
 (if no label available)

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)

92212153



August 08, 2014

Jessica Vickers  
Tetra Tech  
950 South 4th Street  
Baldwyn, MS 38824

RE: Project: Delta Mills PCBs  
Pace Project No.: 92212499

Dear Jessica Vickers:

Enclosed are the analytical results for sample(s) received by the laboratory on August 07, 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,



Nicole Benjamin  
nicole.benjamin@pacelabs.com  
Project Manager

Enclosures

cc: Chris Jones, Tetra Tech



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Delta Mills PCBs

Pace Project No.: 92212499

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Delta Mills PCBs

Pace Project No.: 92212499

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
92212499001	DM-W-010	Wipe	08/07/14 11:00	08/07/14 14:30
92212499002	DM-W-011	Wipe	08/07/14 11:05	08/07/14 14:30
92212499003	DM-W-012	Wipe	08/07/14 11:15	08/07/14 14:30

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Delta Mills PCBs  
Pace Project No.: 92212499

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92212499001	DM-W-010	EPA 8082	RES	8	PASI-C
92212499002	DM-W-011	EPA 8082	RES	8	PASI-C
92212499003	DM-W-012	EPA 8082	RES	8	PASI-C

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Delta Mills PCBs

Pace Project No.: 92212499

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92212499001</b>	<b>DM-W-010</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	2.0	Total ug	1.0	08/08/14 10:28	
<b>92212499002</b>	<b>DM-W-011</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	1.4	Total ug	1.0	08/08/14 10:49	
<b>92212499003</b>	<b>DM-W-012</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	29.0	Total ug	1.0	08/08/14 11:09	

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Delta Mills PCBs  
Pace Project No.: 92212499

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**Method:** EPA 8082  
**Description:** 8082 GCS PCB  
**Client:** Tetra Tech EMI  
**Date:** August 08, 2014

**General Information:**

3 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 3580 (Wipe) with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Delta Mills PCBs

Pace Project No.: 92212499

**Sample: DM-W-010**      **Lab ID: 92212499001**      Collected: 08/07/14 11:00      Received: 08/07/14 14:30      Matrix: Wipe

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8082 GCS PCB</b>									
Analytical Method: EPA 8082    Preparation Method: EPA 3580 (Wipe)									
PCB-1016 (Aroclor 1016)	ND Total ug		1.0	1.0	1	08/07/14 17:24	08/08/14 10:28	12674-11-2	
PCB-1221 (Aroclor 1221)	ND Total ug		1.0	1.0	1	08/07/14 17:24	08/08/14 10:28	11104-28-2	
PCB-1232 (Aroclor 1232)	ND Total ug		1.0	1.0	1	08/07/14 17:24	08/08/14 10:28	11141-16-5	
PCB-1242 (Aroclor 1242)	ND Total ug		1.0	1.0	1	08/07/14 17:24	08/08/14 10:28	53469-21-9	
PCB-1248 (Aroclor 1248)	ND Total ug		1.0	1.0	1	08/07/14 17:24	08/08/14 10:28	12672-29-6	
PCB-1254 (Aroclor 1254)	ND Total ug		1.0	1.0	1	08/07/14 17:24	08/08/14 10:28	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>2.0</b> Total ug		1.0	1.0	1	08/07/14 17:24	08/08/14 10:28	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	129 %		70-130		1	08/07/14 17:24	08/08/14 10:28	2051-24-3	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Delta Mills PCBs  
Pace Project No.: 92212499

**Sample: DM-W-011**      **Lab ID: 92212499002**      Collected: 08/07/14 11:05      Received: 08/07/14 14:30      Matrix: Wipe

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8082 GCS PCB</b>									
Analytical Method: EPA 8082    Preparation Method: EPA 3580 (Wipe)									
PCB-1016 (Aroclor 1016)	ND Total ug		1.0	1.0	1	08/07/14 17:24	08/08/14 10:49	12674-11-2	
PCB-1221 (Aroclor 1221)	ND Total ug		1.0	1.0	1	08/07/14 17:24	08/08/14 10:49	11104-28-2	
PCB-1232 (Aroclor 1232)	ND Total ug		1.0	1.0	1	08/07/14 17:24	08/08/14 10:49	11141-16-5	
PCB-1242 (Aroclor 1242)	ND Total ug		1.0	1.0	1	08/07/14 17:24	08/08/14 10:49	53469-21-9	
PCB-1248 (Aroclor 1248)	ND Total ug		1.0	1.0	1	08/07/14 17:24	08/08/14 10:49	12672-29-6	
PCB-1254 (Aroclor 1254)	ND Total ug		1.0	1.0	1	08/07/14 17:24	08/08/14 10:49	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>1.4</b> Total ug		1.0	1.0	1	08/07/14 17:24	08/08/14 10:49	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	110 %		70-130		1	08/07/14 17:24	08/08/14 10:49	2051-24-3	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Delta Mills PCBs

Pace Project No.: 92212499

Sample: <b>DM-W-012</b>		Lab ID: <b>92212499003</b>		Collected: 08/07/14 11:15	Received: 08/07/14 14:30	Matrix: Wipe			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b>		Analytical Method: EPA 8082 Preparation Method: EPA 3580 (Wipe)							
PCB-1016 (Aroclor 1016)	ND Total ug		1.0	1.0	1	08/07/14 17:24	08/08/14 11:09	12674-11-2	
PCB-1221 (Aroclor 1221)	ND Total ug		1.0	1.0	1	08/07/14 17:24	08/08/14 11:09	11104-28-2	
PCB-1232 (Aroclor 1232)	ND Total ug		1.0	1.0	1	08/07/14 17:24	08/08/14 11:09	11141-16-5	
PCB-1242 (Aroclor 1242)	ND Total ug		1.0	1.0	1	08/07/14 17:24	08/08/14 11:09	53469-21-9	
PCB-1248 (Aroclor 1248)	ND Total ug		1.0	1.0	1	08/07/14 17:24	08/08/14 11:09	12672-29-6	
PCB-1254 (Aroclor 1254)	ND Total ug		1.0	1.0	1	08/07/14 17:24	08/08/14 11:09	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>29.0</b> Total ug		1.0	1.0	1	08/07/14 17:24	08/08/14 11:09	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	98 %		70-130		1	08/07/14 17:24	08/08/14 11:09	2051-24-3	

## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Delta Mills PCBs

Pace Project No.: 92212499

---

### 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.

PQL - Practical Quantitation 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

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Delta Mills PCBs

Pace Project No.: 92212499

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92212499001	DM-W-010	EPA 3580 (Wipe)	OEXT/29281	EPA 8082	GCSV/18489
92212499002	DM-W-011	EPA 3580 (Wipe)	OEXT/29281	EPA 8082	GCSV/18489
92212499003	DM-W-012	EPA 3580 (Wipe)	OEXT/29281	EPA 8082	GCSV/18489

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
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Document Name: **Sample Condition Upon Receipt (SCUR)**

Document Number:

**F-CHR-CS-003-rev.14**

Issuing Authority:

Pace Huntersville Quality Office

Client Name: Tetra Tech, Inc.

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.: N/A °C Biological Tissue is Frozen: Yes No **N/A**

Temp should be above freezing to 6°C

Optional  
Proj. Due Date:  
Proj. Name:

Date and Initials of person examining contents: 8/17/14

Comments:

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 checked="" type="checkbox"/> Yes <input 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: <u>Wipe</u>		
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 type="checkbox"/> No	
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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:

AB

Date:

8/17/14

Place label here

SRF Review:

NMG

Date:

8/17/14

OR

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)

Handwrite project number (if no label available)



# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

92212499

Section A  
 Required Client Information:  
 Company: Peter Tech Inc.  
 Address: 1955 Evergreen Blvd  
Duluth, GA 30096  
 Email To: Jessica Vikes  
 Phone: 404.268.5727  
 Requested Due Date/TAT: ASAP

Section B  
 Required Project Information:  
 Report To: Jessica.vikes@peter-tech.com  
 Copy To: biocont@peter-tech.com  
 Purchase Order No.:  
 Project Name: Delta Mills  
 Project Number:

Section C  
 Invoice Information:  
 Attention:  
 Company Name:  
 Address:  
 Pace Quote Reference:  
 Pace Project Manager:  
 Pace Profile #:

REGULATORY AGENCY  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER

Site Location  
 STATE: SC

Page: 1 of 1

ITEM #	Matrix Codes MATRIX / CODE Drinking Water Waste Water Product Soil/Solid Oil Wipe Air Tissue Other	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP) (see valid codes to left)	MATRIX CODE (see valid codes to left)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> HCl NaOH Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Methanol Other - <u>hexane</u>	Analysis Test ↑ <u>PCBs</u>	ACCEPTED BY / AFFILIATION	DATE	TIME	DATE	TIME	SAMPLE CONDITIONS			
		COMPOSITE START	COMPOSITE END/GRAB												RELINQUISHED BY / AFFILIATION	DATE	TIME	Received on Ice (Y/N)
1	DM-W-010			G	WP	8/7/14 1100	1		X		8/7/14	1430	MA	N	N	N	Y	
2	DM-W-011			G	WP	8/7/14 1105	1		X									
3	DM-W-012			G	WP	8/7/14 1115	1		X									
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

Temp in °C: \_\_\_\_\_  
 Residual Chlorine (Y/N): \_\_\_\_\_  
 Pace Project No./ Lab I.D.: \_\_\_\_\_

FALL-Q-020rev.07, 15-May-2007

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

SAMPLER NAME AND SIGNATURE  
 PRINT Name of SAMPLER: Brian Croft  
 SIGNATURE of SAMPLER: Brian Croft  
 DATE Signed (MM/DD/YY): 8/7/14

August 13, 2014

Jessica Vickers  
Tetra Tech  
950 South 4th Street  
Baldwyn, MS 38824

RE: Project: Delta Mills  
Pace Project No.: 92212977

Dear Jessica Vickers:

Enclosed are the analytical results for sample(s) received by the laboratory on August 12, 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,



Nicole Benjamin  
nicole.benjamin@pacelabs.com  
Project Manager

Enclosures

cc: Chris Jones, Tetra Tech



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Delta Mills

Pace Project No.: 92212977

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Delta Mills

Pace Project No.: 92212977

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92212977001	DM-S-001	Solid	08/12/14 09:50	08/12/14 14:00
92212977002	DM-S-002	Solid	08/12/14 10:05	08/12/14 14:00
92212977003	DM-S-003	Solid	08/12/14 10:15	08/12/14 14:00
92212977004	DM-S-003-DUP	Solid	08/12/14 10:16	08/12/14 14:00
92212977005	DM-S-004	Solid	08/12/14 10:25	08/12/14 14:00

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### SAMPLE ANALYTE COUNT

Project: Delta Mills

Pace Project No.: 92212977

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92212977001	DM-S-001	EPA 8082	RES	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92212977002	DM-S-002	EPA 8082	RES	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92212977003	DM-S-003	EPA 8082	RES	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92212977004	DM-S-003-DUP	EPA 8082	RES	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92212977005	DM-S-004	EPA 8082	RES	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Delta Mills

Pace Project No.: 92212977

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92212977001</b>	<b>DM-S-001</b>					
ASTM D2974-87	Percent Moisture	6.5 %		0.10	08/13/14 14:43	
<b>92212977002</b>	<b>DM-S-002</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	98.2J ug/kg		184	08/13/14 09:50	
ASTM D2974-87	Percent Moisture	10.3 %		0.10	08/13/14 14:43	
<b>92212977003</b>	<b>DM-S-003</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	2950 ug/kg		370	08/13/14 12:55	
ASTM D2974-87	Percent Moisture	10.7 %		0.10	08/13/14 14:44	
<b>92212977004</b>	<b>DM-S-003-DUP</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	1570 ug/kg		186	08/13/14 10:31	
ASTM D2974-87	Percent Moisture	11.3 %		0.10	08/13/14 14:44	
<b>92212977005</b>	<b>DM-S-004</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	259 ug/kg		196	08/13/14 10:51	
ASTM D2974-87	Percent Moisture	15.6 %		0.10	08/13/14 14:44	

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Delta Mills  
Pace Project No.: 92212977

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**Method:** EPA 8082  
**Description:** 8082 GCS PCB SC  
**Client:** Tetra Tech EMI  
**Date:** August 13, 2014

**General Information:**

5 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/29369

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- DM-S-001 (Lab ID: 92212977001)
  - Decachlorobiphenyl (S)
- DM-S-002 (Lab ID: 92212977002)
  - Decachlorobiphenyl (S)
- DM-S-003 (Lab ID: 92212977003)
  - Decachlorobiphenyl (S)
- DM-S-003-DUP (Lab ID: 92212977004)
  - Decachlorobiphenyl (S)
- DM-S-004 (Lab ID: 92212977005)
  - Decachlorobiphenyl (S)
- MS (Lab ID: 1262278)
  - Decachlorobiphenyl (S)
- MSD (Lab ID: 1262279)
  - Decachlorobiphenyl (S)

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Delta Mills  
Pace Project No.: 92212977

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**Method:** EPA 8082  
**Description:** 8082 GCS PCB SC  
**Client:** Tetra Tech EMI  
**Date:** August 13, 2014

QC Batch: OEXT/29369

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92212977005

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1262278)
  - PCB-1260 (Aroclor 1260)
- MSD (Lab ID: 1262279)
  - PCB-1260 (Aroclor 1260)

### Additional Comments:

Analyte Comments:

QC Batch: OEXT/29369

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- DM-S-001 (Lab ID: 92212977001)
  - Decachlorobiphenyl (S)
- DM-S-002 (Lab ID: 92212977002)
  - Decachlorobiphenyl (S)
- DM-S-003 (Lab ID: 92212977003)
  - Decachlorobiphenyl (S)
- DM-S-003-DUP (Lab ID: 92212977004)
  - Decachlorobiphenyl (S)
- DM-S-004 (Lab ID: 92212977005)
  - Decachlorobiphenyl (S)
- MS (Lab ID: 1262278)
  - Decachlorobiphenyl (S)
- MSD (Lab ID: 1262279)
  - Decachlorobiphenyl (S)

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Delta Mills

Pace Project No.: 92212977

**Sample: DM-S-001**      **Lab ID: 92212977001**      Collected: 08/12/14 09:50      Received: 08/12/14 14:00      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>		Analytical Method: EPA 8082    Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	177	80.2	5	08/12/14 16:02	08/13/14 09:29	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	177	80.2	5	08/12/14 16:02	08/13/14 09:29	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	177	80.2	5	08/12/14 16:02	08/13/14 09:29	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	177	80.2	5	08/12/14 16:02	08/13/14 09:29	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	177	80.2	5	08/12/14 16:02	08/13/14 09:29	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	177	80.2	5	08/12/14 16:02	08/13/14 09:29	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	177	80.2	5	08/12/14 16:02	08/13/14 09:29	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		5	08/12/14 16:02	08/13/14 09:29	2051-24-3	D3,S4
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>6.5 %</b>		0.10	0.10	1		08/13/14 14:43		

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## ANALYTICAL RESULTS

Project: Delta Mills

Pace Project No.: 92212977

**Sample: DM-S-002**      **Lab ID: 92212977002**      Collected: 08/12/14 10:05      Received: 08/12/14 14:00      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>		Analytical Method: EPA 8082    Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	184	83.6	5	08/12/14 16:02	08/13/14 09:50	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	184	83.6	5	08/12/14 16:02	08/13/14 09:50	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	184	83.6	5	08/12/14 16:02	08/13/14 09:50	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	184	83.6	5	08/12/14 16:02	08/13/14 09:50	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	184	83.6	5	08/12/14 16:02	08/13/14 09:50	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	184	83.6	5	08/12/14 16:02	08/13/14 09:50	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>98.2J</b>	ug/kg	184	83.6	5	08/12/14 16:02	08/13/14 09:50	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		5	08/12/14 16:02	08/13/14 09:50	2051-24-3	D3,S4
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>10.3</b>	%	0.10	0.10	1		08/13/14 14:43		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Delta Mills

Pace Project No.: 92212977

**Sample: DM-S-003**      **Lab ID: 92212977003**      Collected: 08/12/14 10:15      Received: 08/12/14 14:00      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>		Analytical Method: EPA 8082    Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	370	168	10	08/12/14 16:02	08/13/14 12:55	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	370	168	10	08/12/14 16:02	08/13/14 12:55	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	370	168	10	08/12/14 16:02	08/13/14 12:55	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	370	168	10	08/12/14 16:02	08/13/14 12:55	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	370	168	10	08/12/14 16:02	08/13/14 12:55	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	370	168	10	08/12/14 16:02	08/13/14 12:55	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>2950</b>	ug/kg	370	168	10	08/12/14 16:02	08/13/14 12:55	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		10	08/12/14 16:02	08/13/14 12:55	2051-24-3	D3,S4
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>10.7</b>	%	0.10	0.10	1		08/13/14 14:44		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Delta Mills

Pace Project No.: 92212977

**Sample: DM-S-003-DUP**      **Lab ID: 92212977004**      Collected: 08/12/14 10:16      Received: 08/12/14 14:00      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082    Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	186	84.5	5	08/12/14 16:02	08/13/14 10:31	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	186	84.5	5	08/12/14 16:02	08/13/14 10:31	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	186	84.5	5	08/12/14 16:02	08/13/14 10:31	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	186	84.5	5	08/12/14 16:02	08/13/14 10:31	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	186	84.5	5	08/12/14 16:02	08/13/14 10:31	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	186	84.5	5	08/12/14 16:02	08/13/14 10:31	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>1570</b>	ug/kg	186	84.5	5	08/12/14 16:02	08/13/14 10:31	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		5	08/12/14 16:02	08/13/14 10:31	2051-24-3	D3,S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	<b>11.3</b>	%	0.10	0.10	1		08/13/14 14:44		

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## ANALYTICAL RESULTS

Project: Delta Mills

Pace Project No.: 92212977

**Sample: DM-S-004**      **Lab ID: 92212977005**      Collected: 08/12/14 10:25      Received: 08/12/14 14:00      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>		Analytical Method: EPA 8082    Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	196	88.9	5	08/12/14 16:02	08/13/14 10:51	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	196	88.9	5	08/12/14 16:02	08/13/14 10:51	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	196	88.9	5	08/12/14 16:02	08/13/14 10:51	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	196	88.9	5	08/12/14 16:02	08/13/14 10:51	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	196	88.9	5	08/12/14 16:02	08/13/14 10:51	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	196	88.9	5	08/12/14 16:02	08/13/14 10:51	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>259</b>	ug/kg	196	88.9	5	08/12/14 16:02	08/13/14 10:51	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		5	08/12/14 16:02	08/13/14 10:51	2051-24-3	D3,S4
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>15.6</b>	%	0.10	0.10	1		08/13/14 14:44		

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Delta Mills  
Pace Project No.: 92212977

QC Batch: OEXT/29369 Analysis Method: EPA 8082  
QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB SC  
Associated Lab Samples: 92212977001, 92212977002, 92212977003, 92212977004, 92212977005

METHOD BLANK: 1262276 Matrix: Solid  
Associated Lab Samples: 92212977001, 92212977002, 92212977003, 92212977004, 92212977005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	08/13/14 08:48	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.0	08/13/14 08:48	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	08/13/14 08:48	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	08/13/14 08:48	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	08/13/14 08:48	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	08/13/14 08:48	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	08/13/14 08:48	
Decachlorobiphenyl (S)	%	80	10-128	08/13/14 08:48	

LABORATORY CONTROL SAMPLE: 1262277

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	123	74	42-137	
PCB-1260 (Aroclor 1260)	ug/kg	167	137	82	46-140	
Decachlorobiphenyl (S)	%			85	10-128	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1262278 1262279

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92212977005 Result	Spike Conc.	Spike Conc.	MS Result						
PCB-1016 (Aroclor 1016)	ug/kg	ND	198	198	175J	149J	88	75	42-137	30	
PCB-1260 (Aroclor 1260)	ug/kg	259	198	198	315	266	28	3	46-140	17	30 M1
Decachlorobiphenyl (S)	%						0	0	10-128		D3,S4

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Delta Mills  
Pace Project No.: 92212977

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### 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.

PQL - Practical Quantitation 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

### ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Delta Mills

Pace Project No.: 92212977

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92212977001	DM-S-001	EPA 3546	OEXT/29369	EPA 8082	GCSV/18537
92212977002	DM-S-002	EPA 3546	OEXT/29369	EPA 8082	GCSV/18537
92212977003	DM-S-003	EPA 3546	OEXT/29369	EPA 8082	GCSV/18537
92212977004	DM-S-003-DUP	EPA 3546	OEXT/29369	EPA 8082	GCSV/18537
92212977005	DM-S-004	EPA 3546	OEXT/29369	EPA 8082	GCSV/18537
92212977001	DM-S-001	ASTM D2974-87	PMST/6920		
92212977002	DM-S-002	ASTM D2974-87	PMST/6920		
92212977003	DM-S-003	ASTM D2974-87	PMST/6920		
92212977004	DM-S-003-DUP	ASTM D2974-87	PMST/6920		
92212977005	DM-S-004	ASTM D2974-87	PMST/6920		

### REPORT OF LABORATORY ANALYSIS

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Document Name: **Sample Condition Upon Receipt (SCUR)** Document Revised: April 07, 2014  
 Document Number: **F-CHR-CS-003-rev.14** Page 1 of 2  
 Issuing Authority: **Pace Huntersville Quality Office**

Client Name: PaceTech

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

Optional  
 Proj. Due Date:  
 Proj. Name:

Temp Correction Factor T1102: No Correction T1301: No Correction  
 Corrected Cooler Temp.: NA °C Biological Tissue is Frozen: Yes No N/A  
 Temp should be above freezing to 6°C

Comments:	
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 checked="" type="checkbox"/> Yes <input 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 type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> N/A 11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A 12. <u>All b=HNV 53 1-12-14</u>
-Includes date/time/ID/Analysis Matrix:	
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input 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 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 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 type="checkbox"/> N/A 15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A 16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Pace Trip Blank Lot # (if purchased):	

Client Notification/ Resolution: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Person Contacted: \_\_\_\_\_ Field Data Required? Y / N  
 Comments/Resolution: \_\_\_\_\_

SCURF Review: [Signature] Date: 8/12/14  
 SRF Review: AMB Date: 8-12-14

Place label here  
**WO#: 92212977**  
  
**92212977**

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)



August 18, 2014

Jessica Vickers  
Tetra Tech  
950 South 4th Street  
Baldwyn, MS 38824

RE: Project: Delta Mills  
Pace Project No.: 92213621

Dear Jessica Vickers:

Enclosed are the analytical results for sample(s) received by the laboratory on August 15, 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,



Nicole Benjamin  
nicole.benjamin@pacelabs.com  
Project Manager

Enclosures

cc: Chris Jones, Tetra Tech



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Delta Mills

Pace Project No.: 92213621

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Delta Mills

Pace Project No.: 92213621

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92213621001	DM-O-001	Solid	08/13/14 09:20	08/15/14 14:17
92213621002	DM-S-005	Solid	08/14/14 11:15	08/15/14 14:17
92213621003	DM-S-007	Solid	08/14/14 11:25	08/15/14 14:17
92213621004	DM-S-014	Solid	08/15/14 11:30	08/15/14 14:17
92213621005	DM-S-015	Solid	08/15/14 11:40	08/15/14 14:17
92213621006	DM-S-017	Solid	08/14/14 16:15	08/15/14 14:17
92213621007	DM-S-018	Solid	08/14/14 16:05	08/15/14 14:17
92213621008	DM-S-019	Solid	08/14/14 15:10	08/15/14 14:17
92213621009	DM-W-013	Wipe	08/13/14 08:20	08/15/14 14:17
92213621010	DM-W-014	Wipe	08/15/14 11:00	08/15/14 14:17
92213621011	DM-W-015	Wipe	08/15/14 11:15	08/15/14 14:17

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Delta Mills

Pace Project No.: 92213621

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92213621001	DM-O-001	EPA 8082	RES	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92213621002	DM-S-005	EPA 8082	RES	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92213621003	DM-S-007	EPA 8082	RES	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92213621004	DM-S-014	EPA 8082	RES	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92213621005	DM-S-015	EPA 8082	RES	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92213621006	DM-S-017	EPA 8082	RES	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92213621007	DM-S-018	EPA 8082	RES	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92213621008	DM-S-019	EPA 8082	RES	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92213621009	DM-W-013	EPA 8082	RES	8	PASI-C
92213621010	DM-W-014	EPA 8082	RES	8	PASI-C
92213621011	DM-W-015	EPA 8082	RES	8	PASI-C

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Delta Mills

Pace Project No.: 92213621

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92213621001</b>	<b>DM-O-001</b>					
ASTM D2974-87	Percent Moisture	64.3 %		0.10	08/18/14 14:54	
<b>92213621002</b>	<b>DM-S-005</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	319 ug/kg		177	08/18/14 10:39	
ASTM D2974-87	Percent Moisture	6.6 %		0.10	08/18/14 14:54	
<b>92213621003</b>	<b>DM-S-007</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	523 ug/kg		35.6	08/18/14 09:37	
ASTM D2974-87	Percent Moisture	7.4 %		0.10	08/18/14 14:55	
<b>92213621004</b>	<b>DM-S-014</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	13700 ug/kg		1670	08/18/14 11:00	
ASTM D2974-87	Percent Moisture	1.2 %		0.10	08/18/14 14:57	
<b>92213621005</b>	<b>DM-S-015</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	8660 ug/kg		1670	08/18/14 11:20	
ASTM D2974-87	Percent Moisture	0.93 %		0.10	08/18/14 15:04	
<b>92213621006</b>	<b>DM-S-017</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	1000J ug/kg		1970	08/18/14 11:41	
ASTM D2974-87	Percent Moisture	16.1 %		0.10	08/18/14 15:04	
<b>92213621007</b>	<b>DM-S-018</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	5440 ug/kg		1870	08/18/14 12:01	
ASTM D2974-87	Percent Moisture	11.6 %		0.10	08/18/14 15:05	
<b>92213621008</b>	<b>DM-S-019</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	126 ug/kg		33.1	08/18/14 09:58	
ASTM D2974-87	Percent Moisture	0.39 %		0.10	08/18/14 15:05	

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Delta Mills  
Pace Project No.: 92213621

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**Method:** EPA 8082  
**Description:** 8082 GCS PCB  
**Client:** Tetra Tech EMI  
**Date:** August 18, 2014

**General Information:**

3 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 3580 (Wipe) with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Delta Mills  
Pace Project No.: 92213621

---

**Method:** EPA 8082  
**Description:** 8082 GCS PCB SC  
**Client:** Tetra Tech EMI  
**Date:** August 18, 2014

### General Information:

8 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

### Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/29439

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- DM-O-001 (Lab ID: 92213621001)
  - Decachlorobiphenyl (S)
- DM-S-005 (Lab ID: 92213621002)
  - Decachlorobiphenyl (S)
- DM-S-014 (Lab ID: 92213621004)
  - Decachlorobiphenyl (S)
- DM-S-015 (Lab ID: 92213621005)
  - Decachlorobiphenyl (S)
- DM-S-017 (Lab ID: 92213621006)
  - Decachlorobiphenyl (S)
- DM-S-018 (Lab ID: 92213621007)
  - Decachlorobiphenyl (S)

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

### Additional Comments:

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Delta Mills

Pace Project No.: 92213621

---

**Method:** EPA 8082

**Description:** 8082 GCS PCB SC

**Client:** Tetra Tech EMI

**Date:** August 18, 2014

Analyte Comments:

QC Batch: OEXT/29439

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- DM-O-001 (Lab ID: 92213621001)
  - Decachlorobiphenyl (S)
- DM-S-017 (Lab ID: 92213621006)
  - Decachlorobiphenyl (S)

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Delta Mills

Pace Project No.: 92213621

**Sample: DM-O-001**      **Lab ID: 92213621001**      Collected: 08/13/14 09:20      Received: 08/15/14 14:17      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>		Analytical Method: EPA 8082    Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	10700	4840	50	08/15/14 15:02	08/18/14 10:19	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	10700	4840	50	08/15/14 15:02	08/18/14 10:19	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	10700	4840	50	08/15/14 15:02	08/18/14 10:19	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	10700	4840	50	08/15/14 15:02	08/18/14 10:19	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	10700	4840	50	08/15/14 15:02	08/18/14 10:19	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	10700	4840	50	08/15/14 15:02	08/18/14 10:19	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	10700	4840	50	08/15/14 15:02	08/18/14 10:19	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		50	08/15/14 15:02	08/18/14 10:19	2051-24-3	D3,S4
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>64.3</b> %		0.10	0.10	1		08/18/14 14:54		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Delta Mills

Pace Project No.: 92213621

**Sample: DM-S-005**      **Lab ID: 92213621002**      Collected: 08/14/14 11:15      Received: 08/15/14 14:17      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082    Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	177	80.3	5	08/15/14 15:02	08/18/14 10:39	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	177	80.3	5	08/15/14 15:02	08/18/14 10:39	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	177	80.3	5	08/15/14 15:02	08/18/14 10:39	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	177	80.3	5	08/15/14 15:02	08/18/14 10:39	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	177	80.3	5	08/15/14 15:02	08/18/14 10:39	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	177	80.3	5	08/15/14 15:02	08/18/14 10:39	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>319</b>	ug/kg	177	80.3	5	08/15/14 15:02	08/18/14 10:39	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		5	08/15/14 15:02	08/18/14 10:39	2051-24-3	S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	<b>6.6</b>	%	0.10	0.10	1		08/18/14 14:54		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Delta Mills

Pace Project No.: 92213621

**Sample: DM-S-007**      **Lab ID: 92213621003**      Collected: 08/14/14 11:25      Received: 08/15/14 14:17      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>		Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	35.6	16.2	1	08/15/14 15:02	08/18/14 09:37	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	35.6	16.2	1	08/15/14 15:02	08/18/14 09:37	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	35.6	16.2	1	08/15/14 15:02	08/18/14 09:37	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	35.6	16.2	1	08/15/14 15:02	08/18/14 09:37	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	35.6	16.2	1	08/15/14 15:02	08/18/14 09:37	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	35.6	16.2	1	08/15/14 15:02	08/18/14 09:37	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>523</b>	ug/kg	35.6	16.2	1	08/15/14 15:02	08/18/14 09:37	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	62 %		10-128		1	08/15/14 15:02	08/18/14 09:37	2051-24-3	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>7.4</b>	%	0.10	0.10	1		08/18/14 14:55		

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## ANALYTICAL RESULTS

Project: Delta Mills

Pace Project No.: 92213621

**Sample: DM-S-014**      **Lab ID: 92213621004**      Collected: 08/15/14 11:30      Received: 08/15/14 14:17      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>		Analytical Method: EPA 8082    Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	1670	759	50	08/15/14 15:02	08/18/14 11:00	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	1670	759	50	08/15/14 15:02	08/18/14 11:00	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	1670	759	50	08/15/14 15:02	08/18/14 11:00	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	1670	759	50	08/15/14 15:02	08/18/14 11:00	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	1670	759	50	08/15/14 15:02	08/18/14 11:00	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	1670	759	50	08/15/14 15:02	08/18/14 11:00	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>13700</b>	ug/kg	1670	759	50	08/15/14 15:02	08/18/14 11:00	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		50	08/15/14 15:02	08/18/14 11:00	2051-24-3	S4
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>1.2</b>	%	0.10	0.10	1		08/18/14 14:57		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Delta Mills

Pace Project No.: 92213621

**Sample: DM-S-015**      **Lab ID: 92213621005**      Collected: 08/15/14 11:40      Received: 08/15/14 14:17      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>		Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	1670	757	50	08/15/14 15:02	08/18/14 11:20	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	1670	757	50	08/15/14 15:02	08/18/14 11:20	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	1670	757	50	08/15/14 15:02	08/18/14 11:20	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	1670	757	50	08/15/14 15:02	08/18/14 11:20	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	1670	757	50	08/15/14 15:02	08/18/14 11:20	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	1670	757	50	08/15/14 15:02	08/18/14 11:20	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>8660</b>	ug/kg	1670	757	50	08/15/14 15:02	08/18/14 11:20	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		50	08/15/14 15:02	08/18/14 11:20	2051-24-3	S4
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>0.93</b>	%	0.10	0.10	1		08/18/14 15:04		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Delta Mills

Pace Project No.: 92213621

**Sample: DM-S-017**      **Lab ID: 92213621006**      Collected: 08/14/14 16:15      Received: 08/15/14 14:17      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>		Analytical Method: EPA 8082    Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	1970	894	50	08/15/14 15:02	08/18/14 11:41	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	1970	894	50	08/15/14 15:02	08/18/14 11:41	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	1970	894	50	08/15/14 15:02	08/18/14 11:41	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	1970	894	50	08/15/14 15:02	08/18/14 11:41	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	1970	894	50	08/15/14 15:02	08/18/14 11:41	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	1970	894	50	08/15/14 15:02	08/18/14 11:41	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>1000J</b>	ug/kg	1970	894	50	08/15/14 15:02	08/18/14 11:41	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		50	08/15/14 15:02	08/18/14 11:41	2051-24-3	D3,S4
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>16.1</b>	%	0.10	0.10	1		08/18/14 15:04		

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## ANALYTICAL RESULTS

Project: Delta Mills

Pace Project No.: 92213621

**Sample: DM-S-018**      **Lab ID: 92213621007**      Collected: 08/14/14 16:05      Received: 08/15/14 14:17      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082    Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	1870	848	50	08/15/14 15:02	08/18/14 12:01	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	1870	848	50	08/15/14 15:02	08/18/14 12:01	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	1870	848	50	08/15/14 15:02	08/18/14 12:01	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	1870	848	50	08/15/14 15:02	08/18/14 12:01	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	1870	848	50	08/15/14 15:02	08/18/14 12:01	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	1870	848	50	08/15/14 15:02	08/18/14 12:01	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>5440</b>	ug/kg	1870	848	50	08/15/14 15:02	08/18/14 12:01	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		50	08/15/14 15:02	08/18/14 12:01	2051-24-3	S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	<b>11.6</b>	%	0.10	0.10	1		08/18/14 15:05		

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## ANALYTICAL RESULTS

Project: Delta Mills

Pace Project No.: 92213621

**Sample: DM-S-019**      **Lab ID: 92213621008**      Collected: 08/14/14 15:10      Received: 08/15/14 14:17      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>		Analytical Method: EPA 8082    Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	33.1	15.1	1	08/15/14 15:02	08/18/14 09:58	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	33.1	15.1	1	08/15/14 15:02	08/18/14 09:58	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	33.1	15.1	1	08/15/14 15:02	08/18/14 09:58	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	33.1	15.1	1	08/15/14 15:02	08/18/14 09:58	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	33.1	15.1	1	08/15/14 15:02	08/18/14 09:58	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	33.1	15.1	1	08/15/14 15:02	08/18/14 09:58	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>126</b>	ug/kg	33.1	15.1	1	08/15/14 15:02	08/18/14 09:58	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	59 %		10-128		1	08/15/14 15:02	08/18/14 09:58	2051-24-3	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>0.39</b>	%	0.10	0.10	1		08/18/14 15:05		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Delta Mills

Pace Project No.: 92213621

**Sample: DM-W-013**      **Lab ID: 92213621009**      Collected: 08/13/14 08:20      Received: 08/15/14 14:17      Matrix: Wipe

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8082 GCS PCB</b>									
Analytical Method: EPA 8082    Preparation Method: EPA 3580 (Wipe)									
PCB-1016 (Aroclor 1016)	ND Total ug		1.0	1.0	1	08/15/14 16:34	08/15/14 23:21	12674-11-2	
PCB-1221 (Aroclor 1221)	ND Total ug		1.0	1.0	1	08/15/14 16:34	08/15/14 23:21	11104-28-2	
PCB-1232 (Aroclor 1232)	ND Total ug		1.0	1.0	1	08/15/14 16:34	08/15/14 23:21	11141-16-5	
PCB-1242 (Aroclor 1242)	ND Total ug		1.0	1.0	1	08/15/14 16:34	08/15/14 23:21	53469-21-9	
PCB-1248 (Aroclor 1248)	ND Total ug		1.0	1.0	1	08/15/14 16:34	08/15/14 23:21	12672-29-6	
PCB-1254 (Aroclor 1254)	ND Total ug		1.0	1.0	1	08/15/14 16:34	08/15/14 23:21	11097-69-1	
PCB-1260 (Aroclor 1260)	ND Total ug		1.0	1.0	1	08/15/14 16:34	08/15/14 23:21	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	102 %		70-130		1	08/15/14 16:34	08/15/14 23:21	2051-24-3	

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## ANALYTICAL RESULTS

Project: Delta Mills

Pace Project No.: 92213621

Sample: <b>DM-W-014</b>		Lab ID: <b>92213621010</b>		Collected: 08/15/14 11:00	Received: 08/15/14 14:17	Matrix: Wipe			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b>		Analytical Method: EPA 8082 Preparation Method: EPA 3580 (Wipe)							
PCB-1016 (Aroclor 1016)	ND Total ug		1.0	1.0	1	08/15/14 16:34	08/15/14 23:42	12674-11-2	
PCB-1221 (Aroclor 1221)	ND Total ug		1.0	1.0	1	08/15/14 16:34	08/15/14 23:42	11104-28-2	
PCB-1232 (Aroclor 1232)	ND Total ug		1.0	1.0	1	08/15/14 16:34	08/15/14 23:42	11141-16-5	
PCB-1242 (Aroclor 1242)	ND Total ug		1.0	1.0	1	08/15/14 16:34	08/15/14 23:42	53469-21-9	
PCB-1248 (Aroclor 1248)	ND Total ug		1.0	1.0	1	08/15/14 16:34	08/15/14 23:42	12672-29-6	
PCB-1254 (Aroclor 1254)	ND Total ug		1.0	1.0	1	08/15/14 16:34	08/15/14 23:42	11097-69-1	
PCB-1260 (Aroclor 1260)	ND Total ug		1.0	1.0	1	08/15/14 16:34	08/15/14 23:42	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	112 %		70-130		1	08/15/14 16:34	08/15/14 23:42	2051-24-3	

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## ANALYTICAL RESULTS

Project: Delta Mills

Pace Project No.: 92213621

Sample: <b>DM-W-015</b>		Lab ID: <b>92213621011</b>		Collected: 08/15/14 11:15	Received: 08/15/14 14:17	Matrix: Wipe			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b>		Analytical Method: EPA 8082 Preparation Method: EPA 3580 (Wipe)							
PCB-1016 (Aroclor 1016)	ND Total ug		1.0	1.0	1	08/15/14 16:34	08/16/14 00:02	12674-11-2	
PCB-1221 (Aroclor 1221)	ND Total ug		1.0	1.0	1	08/15/14 16:34	08/16/14 00:02	11104-28-2	
PCB-1232 (Aroclor 1232)	ND Total ug		1.0	1.0	1	08/15/14 16:34	08/16/14 00:02	11141-16-5	
PCB-1242 (Aroclor 1242)	ND Total ug		1.0	1.0	1	08/15/14 16:34	08/16/14 00:02	53469-21-9	
PCB-1248 (Aroclor 1248)	ND Total ug		1.0	1.0	1	08/15/14 16:34	08/16/14 00:02	12672-29-6	
PCB-1254 (Aroclor 1254)	ND Total ug		1.0	1.0	1	08/15/14 16:34	08/16/14 00:02	11097-69-1	
PCB-1260 (Aroclor 1260)	ND Total ug		1.0	1.0	1	08/15/14 16:34	08/16/14 00:02	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	98 %		70-130		1	08/15/14 16:34	08/16/14 00:02	2051-24-3	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Delta Mills  
Pace Project No.: 92213621

QC Batch: OEXT/29444 Analysis Method: EPA 8082  
QC Batch Method: EPA 3580 (Wipe) Analysis Description: 8082 GCS PCB Wipe  
Associated Lab Samples: 92213621009, 92213621010, 92213621011

METHOD BLANK: 1265649 Matrix: Wipe  
Associated Lab Samples: 92213621009, 92213621010, 92213621011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	Total ug	ND	1.0	08/15/14 22:19	
PCB-1221 (Aroclor 1221)	Total ug	ND	1.0	08/15/14 22:19	
PCB-1232 (Aroclor 1232)	Total ug	ND	1.0	08/15/14 22:19	
PCB-1242 (Aroclor 1242)	Total ug	ND	1.0	08/15/14 22:19	
PCB-1248 (Aroclor 1248)	Total ug	ND	1.0	08/15/14 22:19	
PCB-1254 (Aroclor 1254)	Total ug	ND	1.0	08/15/14 22:19	
PCB-1260 (Aroclor 1260)	Total ug	ND	1.0	08/15/14 22:19	
Decachlorobiphenyl (S)	%	89	70-130	08/15/14 22:19	

LABORATORY CONTROL SAMPLE & LCSD: 1265650

Parameter	Units	1265651								
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	Total ug	10	9.4	9.8	94	98	70-130	5	30	
PCB-1260 (Aroclor 1260)	Total ug	10	9.2	9.4	92	94	70-130	2	30	
Decachlorobiphenyl (S)	%				93	94	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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### QUALITY CONTROL DATA

Project: Delta Mills  
Pace Project No.: 92213621

QC Batch: OEXT/29439 Analysis Method: EPA 8082  
QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB SC  
Associated Lab Samples: 92213621001, 92213621002, 92213621003, 92213621004, 92213621005, 92213621006, 92213621007, 92213621008

METHOD BLANK: 1265436 Matrix: Solid  
Associated Lab Samples: 92213621001, 92213621002, 92213621003, 92213621004, 92213621005, 92213621006, 92213621007, 92213621008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	08/16/14 12:57	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.0	08/16/14 12:57	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	08/16/14 12:57	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	08/16/14 12:57	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	08/16/14 12:57	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	08/16/14 12:57	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	08/16/14 12:57	
Decachlorobiphenyl (S)	%	69	10-128	08/16/14 12:57	

Parameter	Units	1265437		1265467		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
PCB-1016 (Aroclor 1016)	ug/kg	167	97.1	118	58	71	42-137	19	30
PCB-1260 (Aroclor 1260)	ug/kg	167	123	137	74	82	46-140	11	30
Decachlorobiphenyl (S)	%				74	79	10-128		

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## QUALIFIERS

Project: Delta Mills  
Pace Project No.: 92213621

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### 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.

PQL - Practical Quantitation 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

### ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

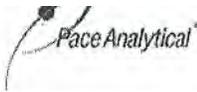
Project: Delta Mills

Pace Project No.: 92213621

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92213621009	DM-W-013	EPA 3580 (Wipe)	OEXT/29444	EPA 8082	GCSV/18573
92213621010	DM-W-014	EPA 3580 (Wipe)	OEXT/29444	EPA 8082	GCSV/18573
92213621011	DM-W-015	EPA 3580 (Wipe)	OEXT/29444	EPA 8082	GCSV/18573
92213621001	DM-O-001	EPA 3546	OEXT/29439	EPA 8082	GCSV/18581
92213621002	DM-S-005	EPA 3546	OEXT/29439	EPA 8082	GCSV/18581
92213621003	DM-S-007	EPA 3546	OEXT/29439	EPA 8082	GCSV/18581
92213621004	DM-S-014	EPA 3546	OEXT/29439	EPA 8082	GCSV/18581
92213621005	DM-S-015	EPA 3546	OEXT/29439	EPA 8082	GCSV/18581
92213621006	DM-S-017	EPA 3546	OEXT/29439	EPA 8082	GCSV/18581
92213621007	DM-S-018	EPA 3546	OEXT/29439	EPA 8082	GCSV/18581
92213621008	DM-S-019	EPA 3546	OEXT/29439	EPA 8082	GCSV/18581
92213621001	DM-O-001	ASTM D2974-87	PMST/6939		
92213621002	DM-S-005	ASTM D2974-87	PMST/6939		
92213621003	DM-S-007	ASTM D2974-87	PMST/6939		
92213621004	DM-S-014	ASTM D2974-87	PMST/6939		
92213621005	DM-S-015	ASTM D2974-87	PMST/6939		
92213621006	DM-S-017	ASTM D2974-87	PMST/6939		
92213621007	DM-S-018	ASTM D2974-87	PMST/6939		
92213621008	DM-S-019	ASTM D2974-87	PMST/6939		

## REPORT OF LABORATORY ANALYSIS

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Client Name: Tetra Tech, Inc.

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other \_\_\_\_\_

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

Optional  
Proj. Due Date:  
Proj. Name:

Packing Material:  Bubble Wrap  Bubble Bags  None  Other Zip

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.: N/A °C    Biological Tissue is Frozen: Yes No N/A

Date and Initials of person examining contents: ES 8/14/14

Temp should be above freezing to 6°C

Comments:

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 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 checked="" type="checkbox"/> Yes <input 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 checked="" 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 type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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:

[Signature]

Date: 8/15/14

SRF Review:

[Signature]

Date: 8/15/14

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)

Place label here

**WO#: 92213621**

92213621

**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

92213621

**Section A**

Required Client Information:

Company: Take Tech Inc  
Address: 1955 Ferguson Blvd  
Dulak GA 30096  
Email To: Jessica Nickerson  
Phone: 602-461-5127 Fax:  
Requested Due Date/TAT: ASAP

**Section B**

Required Project Information:

Report To: Jessica Nickerson@take-tech.com  
Copy To: branford@take-tech.com  
Purchase Order No.:  
Project Name: Delta Mills  
Project Number:

**Section C**

Invoice Information:

Attention:  
Company Name:  
Address:  
Pace Quote Reference:  
Pace Project Manager:  
Pace Printer #:

Page: 1

of 1

**REGULATORY AGENCY**

NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER \_\_\_\_\_

Site Location STATE: SC

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
									Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol			
1	DN-O-001	DL	8/15/14	0920				1										001
2	DN-S-002-A	SL	8/15/14	1530				1										002
3	DN-S-005	SL	8/14/14	1115				1										003
4	DN-S-007	SL	8/14/14	1125				1										004
5	DN-S-014	SL	8/15/14	1130				1										005
6	DN-S-015	SL	8/15/14	1140				1										006
7	DN-S-017	SL	8/14/14	1605				1										007
8	DN-S-018	SL	8/14/14	1605				1										008
9	DN-S-019	SL	8/14/14	1510				1										009
10	DN-W-013	WP	8/15/14	0820				1										010
11	DN-W-014	WP	8/15/14	1100				1										011
12	DN-W-015	WP	8/15/14	1115				1										011

ADDITIONAL COMMENTS

REQUISISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<u>[Signature]</u>	8/15/14	1117	<u>[Signature]</u>	8/15/14	1417	BA N N Y

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: Brian Cook  
SIGNATURE of SAMPLER: [Signature]  
DATE Signed (MM/DD/YY): 8/15/14

Temp in °C  
Received on Ice (Y/N)  
Custody Sealed Cooler (Y/N)  
Samples Intact (Y/N)

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

August 25, 2014

Jessica Vickers  
Tetra Tech  
950 South 4th Street  
Baldwyn, MS 38824

RE: Project: Delta Mills - Asbestos PLM  
Pace Project No.: 92213622

Dear Jessica Vickers:

Enclosed are the analytical results for sample(s) received by the laboratory on August 15, 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,



Jordan N Blazer for  
Nicole Benjamin  
nicole.benjamin@pacelabs.com  
Project Manager

Enclosures

cc: Chris Jones, Tetra Tech



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Delta Mills - Asbestos PLM

Pace Project No.: 92213622

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### Greenwood Certification IDs

816 Durst Avenue East, Greenwood, SC 29649

South Carolina Laboratory ID #: 24562

North Carolina Division of Water Resources Certification  
number 25

Florida Certification number E87633

Virginia VELAP ID: 460250

Asbestos NVLAP accreditation: 101410-0

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Delta Mills - Asbestos PLM

Pace Project No.: 92213622

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Lab ID	Sample ID	Matrix	Date Collected	Date Received
92213622001	DM-S-002-A	Solid	08/13/14 15:30	08/15/14 14:17

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Delta Mills - Asbestos PLM

Pace Project No.: 92213622

---

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92213622001	DM-S-002-A	EPA 600/M4-82-020	EIC	1	PASI-G

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Delta Mills - Asbestos PLM

Pace Project No.: 92213622

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92213622001</b>	<b>DM-S-002-A</b>					
EPA 600/M4-82-020	Asbestos	DONE			08/19/14 09:00	

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Delta Mills - Asbestos PLM  
Pace Project No.: 92213622

---

**Method:** EPA 600/M4-82-020  
**Description:** Asbestos PLM  
**Client:** Tetra Tech EMI  
**Date:** August 25, 2014

**General Information:**

1 sample was analyzed for EPA 600/M4-82-020. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Delta Mills - Asbestos PLM

Pace Project No.: 92213622

Matrix: Solid

Sample: DM-S-002-A

Lab ID: 92213622001

% Moisture:

Collected: 08/13/14 15:30

Acode: Asbestos PLM

Received: 08/15/14 14:17

Prep/Method: EPA 600/M4-82-020

Analyzed: 08/19/14 09:00

**Results reported on a "wet-weight" basis**

Dilution Factor: 1

Units:

CAS No.	Parameters	Results	Report Limit	Qual
	Asbestos	<b>DONE</b>		

## REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Delta Mills - Asbestos PLM

Pace Project No.: 92213622

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### 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.

PQL - Practical Quantitation 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-G Pace Analytical Services - Greenwood

## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Delta Mills - Asbestos PLM  
Pace Project No.: 92213622

---

<b>Lab ID</b>	<b>Sample ID</b>	<b>QC Batch Method</b>	<b>QC Batch</b>	<b>Analytical Method</b>	<b>Analytical Batch</b>
92213622001	DM-S-002-A	EPA 600/M4-82-020	GWD/1482		

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## REPORT OF LABORATORY ANALYSIS

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Document Number:  
F-CHR-CS-003-rev.14

Issuing Authority:  
Pace Huntersville Quality Office

Client Name: Tetra Tech, Inc.

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 Zpk

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.: N/A °C    Biological Tissue is Frozen: Yes No N/A  
Temp should be above freezing to 6°C    Comments:

Optional:  
Proj. Due Date:  
Proj. Name:

Date and Initials of person examining contents: ES 8/14/14

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 type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input 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 checked="" type="checkbox"/> Yes <input 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 checked="" 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 type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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: [Signature] Date: 8/15/14  
SRF Review: [Signature] Date: 8-18-14

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)

Place label here

**WO# : 92213622**



92213622



**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

92213622

Section A Required Client Information: Company: **Delta Tech Inc** Report To: **Jessica Wickers@delta.com** Attention: **Jessica Wickers** Invoice Information: Page: **1** of **1**

Address: **1955 Evergreen Blvd, Dulux GA 30096** Copy To: **brucec@delta.com** Company Name: **Delta Tech Inc** Regulatory Agency:  NPDES  GROUND WATER  DRINKING WATER  
 Email To: **brucec@delta.com** Purchase Order No.: **Delta Mills** Address: **Delta Mills**  UST  RORA  OTHER  
 Project Name: **Delta Mills** Site Location STATE: **SC**  
 Requested Due Date/TAT: **ASAP** Project Number: **ASAP** Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information	Matrix Codes	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=C-OMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					DATE	TIME						
1	DN-O-001	DW	SL G	G	8/15/14	0920		1		PCBs		
2	DN-S-002-A	WT	SL C	C	8/15/14	1530		1		Asbestos PLM		
3	DN-S-005	WW	SL C	C	8/14/14	1115		1				
4	DN-S-007	P	SL C	C	8/14/14	1125		1				
5	DN-S-014	SL	SL C	C	8/15/14	1130		1				
6	DN-S-015	SL	SL C	C	8/15/14	1140		1				
7	DN-S-017	SL	SL C	C	8/14/14	1605		1				
8	DN-S-018	SL	SL C	C	8/14/14	1510		1				
9	DN-S-019	SL	SL C	C	8/14/14	0820		1				
10	DN-W-013	WP	WP G	G	8/15/14	1100		1				
11	DN-W-014	WP	WP G	G	8/15/14	1115		1				
12	DN-W-015	WP	WP G	G	8/15/14	1115		1				

RE-ACQUIRED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<i>[Signature]</i>	8/15/14	1417	<i>[Signature]</i>	8/15/14	1417	DA N N Y

ADDITIONAL COMMENTS

TEMPERATURE: **Temp in °C**

RECEIVED ON ICE: **Received on Ice (Y/N)**

CUSTODY: **Custody Sealed Cooler (Y/N)**

SAMPLES: **Samples Intact (Y/N)**

SAMPLER NAME AND SIGNATURE: **PRINT Name of SAMPLER: *[Signature]* SIGNATURE of SAMPLER: *[Signature]***

DATE SIGNED: **DATE Signed (MM/DD/YY): 8/15/14**

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to hold changes of 1.5% per month for any invoices not paid within 30 days.



**Building Material Analysis  
Asbestos Content**

Pace Analytical Services, Inc.  
Greenwood Laboratory  
816 East Durst Avenue  
Greenwood, SC 29649

**92-TETRA GA  
Delta Mills**

Lab Number	Date Analyzed	Sample Identification	Sample Description Layers	Color	Matrix	Asbestos Identification and Estimated Quantity	Non-Asbestos Material Identification
92213622001	8/19/2014	DM-S-002	1	Reddish-Brown	Soil	None Detected	97.00% Nonfibrous Binder 3.00% Cellulose

Elizabeth Culbertson, analyst

In the case of nonhomogeneous samples (samples which contain more than one visually distinct material which is not mixed), concentrations of materials are given for each layer and, where applicable, composite values are given for the entire sample. The quantification of asbestos in the sample is an estimate only due to the nature of the test method.

For samples or portions of samples that are vermiculite, a quantitative analysis is performed by comparing the weight of asbestos particles collected from the vermiculite to the weight of the vermiculite. The accuracy is based on the ability to identify and select asbestos particles from the sample. Therefore, the limitations of the test method described above which relate to particle size apply to this technique. This may result in reported sample concentrations which may be biased low. It is recommended that vermiculite materials containing less than 1% asbestos be further analyzed using transmission electron microscopy.

August 19, 2014

Jessica Vickers  
Tetra Tech  
950 South 4th Street  
Baldwyn, MS 38824

RE: Project: Delta Mills 08/16/14  
Pace Project No.: 92213746

Dear Jessica Vickers:

Enclosed are the analytical results for sample(s) received by the laboratory on August 18, 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,



Nicole Benjamin  
nicole.benjamin@pacelabs.com  
Project Manager

Enclosures

cc: Chris Jones, Tetra Tech



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Delta Mills 08/16/14

Pace Project No.: 92213746

---

### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Delta Mills 08/16/14

Pace Project No.: 92213746

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92213746001	DM-S-010-PH-G	Solid	08/16/14 07:30	08/18/14 14:10
92213746002	DM-S-016	Solid	08/16/14 09:40	08/18/14 14:10
92213746003	DM-S-008	Solid	08/16/14 11:10	08/18/14 14:10
92213746004	DM-S-009	Solid	08/16/14 11:20	08/18/14 14:10
92213746005	DM-S-009-G	Solid	08/16/14 11:30	08/18/14 14:10
92213746006	DM-S-011	Solid	08/16/14 11:25	08/18/14 14:10
92213746007	DM-S-011-G	Solid	08/16/14 11:40	08/18/14 14:10

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Delta Mills 08/16/14

Pace Project No.: 92213746

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92213746001	DM-S-010-PH-G	EPA 8082	RES	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92213746002	DM-S-016	EPA 8082	RES	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92213746003	DM-S-008	EPA 8082	RES	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92213746004	DM-S-009	EPA 8082	RES	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92213746005	DM-S-009-G	EPA 8082	RES	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92213746006	DM-S-011	EPA 8082	RES	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92213746007	DM-S-011-G	EPA 8082	RES	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Delta Mills 08/16/14

Pace Project No.: 92213746

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92213746001</b>	<b>DM-S-010-PH-G</b>					
ASTM D2974-87	Percent Moisture	13.6 %		0.10	08/19/14 14:30	
<b>92213746002</b>	<b>DM-S-016</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	414 ug/kg		375	08/19/14 12:30	
ASTM D2974-87	Percent Moisture	11.9 %		0.10	08/19/14 14:30	
<b>92213746003</b>	<b>DM-S-008</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	11200 ug/kg		1370	08/19/14 15:35	
ASTM D2974-87	Percent Moisture	3.8 %		0.10	08/19/14 14:31	
<b>92213746004</b>	<b>DM-S-009</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	3890 ug/kg		359	08/19/14 13:11	
ASTM D2974-87	Percent Moisture	8.0 %		0.10	08/19/14 14:31	
<b>92213746005</b>	<b>DM-S-009-G</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	1200 ug/kg		368	08/19/14 13:32	
ASTM D2974-87	Percent Moisture	10.3 %		0.10	08/19/14 14:31	
<b>92213746006</b>	<b>DM-S-011</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	4080 ug/kg		410	08/19/14 13:52	
ASTM D2974-87	Percent Moisture	19.6 %		0.10	08/19/14 14:33	
<b>92213746007</b>	<b>DM-S-011-G</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	165J ug/kg		358	08/19/14 14:13	
ASTM D2974-87	Percent Moisture	7.9 %		0.10	08/19/14 14:33	

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Delta Mills 08/16/14

Pace Project No.: 92213746

---

**Method:** EPA 8082

**Description:** 8082 GCS PCB SC

**Client:** Tetra Tech EMI

**Date:** August 19, 2014

**General Information:**

7 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/29479

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- DM-S-008 (Lab ID: 92213746003)
  - Decachlorobiphenyl (S)
- DM-S-009 (Lab ID: 92213746004)
  - Decachlorobiphenyl (S)
- DM-S-009-G (Lab ID: 92213746005)
  - Decachlorobiphenyl (S)
- DM-S-010-PH-G (Lab ID: 92213746001)
  - Decachlorobiphenyl (S)
- DM-S-011 (Lab ID: 92213746006)
  - Decachlorobiphenyl (S)
- DM-S-011-G (Lab ID: 92213746007)
  - Decachlorobiphenyl (S)
- DM-S-016 (Lab ID: 92213746002)
  - Decachlorobiphenyl (S)

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Delta Mills 08/16/14

Pace Project No.: 92213746

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**Method:** EPA 8082

**Description:** 8082 GCS PCB SC

**Client:** Tetra Tech EMI

**Date:** August 19, 2014

### Additional Comments:

Analyte Comments:

QC Batch: OEXT/29479

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- DM-S-010-PH-G (Lab ID: 92213746001)
  - Decachlorobiphenyl (S)
- DM-S-011-G (Lab ID: 92213746007)
  - Decachlorobiphenyl (S)

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Delta Mills 08/16/14

Pace Project No.: 92213746

**Sample: DM-S-010-PH-G**      **Lab ID: 92213746001**      Collected: 08/16/14 07:30      Received: 08/18/14 14:10      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082    Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	1910	868	50	08/19/14 08:34	08/19/14 12:09	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	1910	868	50	08/19/14 08:34	08/19/14 12:09	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	1910	868	50	08/19/14 08:34	08/19/14 12:09	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	1910	868	50	08/19/14 08:34	08/19/14 12:09	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	1910	868	50	08/19/14 08:34	08/19/14 12:09	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	1910	868	50	08/19/14 08:34	08/19/14 12:09	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	1910	868	50	08/19/14 08:34	08/19/14 12:09	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		50	08/19/14 08:34	08/19/14 12:09	2051-24-3	D3,S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	<b>13.6</b>	%	0.10	0.10	1		08/19/14 14:30		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Delta Mills 08/16/14

Pace Project No.: 92213746

**Sample: DM-S-016**      **Lab ID: 92213746002**      Collected: 08/16/14 09:40      Received: 08/18/14 14:10      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>		Analytical Method: EPA 8082    Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	375	170	10	08/19/14 08:34	08/19/14 12:30	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	375	170	10	08/19/14 08:34	08/19/14 12:30	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	375	170	10	08/19/14 08:34	08/19/14 12:30	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	375	170	10	08/19/14 08:34	08/19/14 12:30	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	375	170	10	08/19/14 08:34	08/19/14 12:30	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	375	170	10	08/19/14 08:34	08/19/14 12:30	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>414</b>	ug/kg	375	170	10	08/19/14 08:34	08/19/14 12:30	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		10	08/19/14 08:34	08/19/14 12:30	2051-24-3	S4
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>11.9</b>	%	0.10	0.10	1		08/19/14 14:30		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Delta Mills 08/16/14

Pace Project No.: 92213746

**Sample: DM-S-008**      **Lab ID: 92213746003**      Collected: 08/16/14 11:10      Received: 08/18/14 14:10      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>		Analytical Method: EPA 8082    Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	1370	623	40	08/19/14 08:34	08/19/14 15:35	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	1370	623	40	08/19/14 08:34	08/19/14 15:35	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	1370	623	40	08/19/14 08:34	08/19/14 15:35	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	1370	623	40	08/19/14 08:34	08/19/14 15:35	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	1370	623	40	08/19/14 08:34	08/19/14 15:35	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	1370	623	40	08/19/14 08:34	08/19/14 15:35	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>11200</b>	ug/kg	1370	623	40	08/19/14 08:34	08/19/14 15:35	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		40	08/19/14 08:34	08/19/14 15:35	2051-24-3	S4
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>3.8</b>	%	0.10	0.10	1		08/19/14 14:31		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Delta Mills 08/16/14

Pace Project No.: 92213746

**Sample: DM-S-009**      **Lab ID: 92213746004**      Collected: 08/16/14 11:20      Received: 08/18/14 14:10      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>		Analytical Method: EPA 8082    Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	359	163	10	08/19/14 08:34	08/19/14 13:11	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	359	163	10	08/19/14 08:34	08/19/14 13:11	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	359	163	10	08/19/14 08:34	08/19/14 13:11	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	359	163	10	08/19/14 08:34	08/19/14 13:11	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	359	163	10	08/19/14 08:34	08/19/14 13:11	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	359	163	10	08/19/14 08:34	08/19/14 13:11	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>3890</b>	ug/kg	359	163	10	08/19/14 08:34	08/19/14 13:11	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		10	08/19/14 08:34	08/19/14 13:11	2051-24-3	S4
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>8.0</b>	%	0.10	0.10	1		08/19/14 14:31		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Delta Mills 08/16/14

Pace Project No.: 92213746

**Sample: DM-S-009-G**      **Lab ID: 92213746005**      Collected: 08/16/14 11:30      Received: 08/18/14 14:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>		Analytical Method: EPA 8082    Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	368	167	10	08/19/14 08:34	08/19/14 13:32	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	368	167	10	08/19/14 08:34	08/19/14 13:32	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	368	167	10	08/19/14 08:34	08/19/14 13:32	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	368	167	10	08/19/14 08:34	08/19/14 13:32	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	368	167	10	08/19/14 08:34	08/19/14 13:32	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	368	167	10	08/19/14 08:34	08/19/14 13:32	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>1200</b>	ug/kg	368	167	10	08/19/14 08:34	08/19/14 13:32	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		10	08/19/14 08:34	08/19/14 13:32	2051-24-3	S4
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>10.3</b>	%	0.10	0.10	1		08/19/14 14:31		

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## ANALYTICAL RESULTS

Project: Delta Mills 08/16/14

Pace Project No.: 92213746

**Sample: DM-S-011**      **Lab ID: 92213746006**      Collected: 08/16/14 11:25      Received: 08/18/14 14:10      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082    Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	410	187	10	08/19/14 08:34	08/19/14 13:52	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	410	187	10	08/19/14 08:34	08/19/14 13:52	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	410	187	10	08/19/14 08:34	08/19/14 13:52	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	410	187	10	08/19/14 08:34	08/19/14 13:52	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	410	187	10	08/19/14 08:34	08/19/14 13:52	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	410	187	10	08/19/14 08:34	08/19/14 13:52	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>4080</b>	ug/kg	410	187	10	08/19/14 08:34	08/19/14 13:52	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		10	08/19/14 08:34	08/19/14 13:52	2051-24-3	S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	<b>19.6</b>	%	0.10	0.10	1		08/19/14 14:33		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Delta Mills 08/16/14

Pace Project No.: 92213746

**Sample: DM-S-011-G**      **Lab ID: 92213746007**      Collected: 08/16/14 11:40      Received: 08/18/14 14:10      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>		Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	358	163	10	08/19/14 08:34	08/19/14 14:13	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	358	163	10	08/19/14 08:34	08/19/14 14:13	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	358	163	10	08/19/14 08:34	08/19/14 14:13	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	358	163	10	08/19/14 08:34	08/19/14 14:13	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	358	163	10	08/19/14 08:34	08/19/14 14:13	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	358	163	10	08/19/14 08:34	08/19/14 14:13	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>165J</b>	ug/kg	358	163	10	08/19/14 08:34	08/19/14 14:13	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		10	08/19/14 08:34	08/19/14 14:13	2051-24-3	D3,S4
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>7.9</b>	%	0.10	0.10	1		08/19/14 14:33		

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## QUALIFIERS

Project: Delta Mills 08/16/14

Pace Project No.: 92213746

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### 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.

PQL - Practical Quantitation 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

### ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Delta Mills 08/16/14

Pace Project No.: 92213746

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92213746001	DM-S-010-PH-G	EPA 3546	OEXT/29479	EPA 8082	GCSV/18605
92213746002	DM-S-016	EPA 3546	OEXT/29479	EPA 8082	GCSV/18605
92213746003	DM-S-008	EPA 3546	OEXT/29479	EPA 8082	GCSV/18605
92213746004	DM-S-009	EPA 3546	OEXT/29479	EPA 8082	GCSV/18605
92213746005	DM-S-009-G	EPA 3546	OEXT/29479	EPA 8082	GCSV/18605
92213746006	DM-S-011	EPA 3546	OEXT/29479	EPA 8082	GCSV/18605
92213746007	DM-S-011-G	EPA 3546	OEXT/29479	EPA 8082	GCSV/18605
92213746001	DM-S-010-PH-G	ASTM D2974-87	PMST/6944		
92213746002	DM-S-016	ASTM D2974-87	PMST/6944		
92213746003	DM-S-008	ASTM D2974-87	PMST/6944		
92213746004	DM-S-009	ASTM D2974-87	PMST/6944		
92213746005	DM-S-009-G	ASTM D2974-87	PMST/6944		
92213746006	DM-S-011	ASTM D2974-87	PMST/6944		
92213746007	DM-S-011-G	ASTM D2974-87	PMST/6944		

### 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: TCHRTCC

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace Other \_\_\_\_\_

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

Optional  
 Proj. Due Date:  
 Proj. Name:

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.: N/A °C Biological Tissue is Frozen: Yes No N/A

Date and Initials of person examining contents: WFE 11/14

Temp should be above freezing to 6°C

Comments:

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 checked="" type="checkbox"/> Yes <input 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 type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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:	<u>JB</u>	Date:	<u>8/16/14</u>
SRF Review:	<u>NS</u>	Date:	<u>8/19/14</u>

Please label here

**WO#: 92213746**

92213746

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)



### CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

**Section A**

Required Client Information:

Company: Delta Tech Inc  
 Address: 1955 Esplanade Blvd,  
Duluth GA 30096  
 Email To: Jessica Vikes  
 Phone: 681 57271 Fax:  
 Requested Due Date/TAT: ASAP

**Section B**

Required Project Information:

Report To: Jessica.v.deno@delta-tech.com  
 Copy To: brincall@delta-tech.com  
 Purchase Order No.:  
 Project Name: Delta Mills  
 Project Number:

**Section C**

Invoice Information:

Attention:  
 Company Name:  
 Address:  
 Pace Quote Reference:  
 Pace Project Manager:  
 Pace Profile #:

Page: 1 of 1

**REGULATORY AGENCY**

NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER  
 Site Location STATE: SC

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	SAMPLE CONDITIONS				
			COMPOSITE START	COMPOSITE END/DRAW			H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other					Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
1	DM-S-010-PH-G	SL G	8/16/14	0730		1															
2	DM-S-016	SL C	8/16/14	0940		1															
3	DM-S-008	SL C	8/16/14	1110		1															
4	DM-S-009	SL C	8/16/14	1120		1															
5	DM-S-009-G	SL G	8/16/14	1130		1															
6	DM-S-011-	SL C	8/16/14	1125		1															
7	DM-S-011-G	SL G	8/16/14	1140		1															
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS

REINQUISHED BY / AFFILIATION

DATE

TIME

ACCEPTED BY / AFFILIATION

DATE

TIME

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:  
 SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY):

Temp in °C  
 Received on Ice (Y/N)  
 Custody Sealed Cooler (Y/N)  
 Samples Intact (Y/N)

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to the charges of 1.5% per month for any invoices not paid within 30 days.

FALL-Q-020/rev.07, 15-May-2007

August 21, 2014

Jessica Vickers  
Tetra Tech  
950 South 4th Street  
Baldwyn, MS 38824

RE: Project: DELTA MILLS  
Pace Project No.: 92214063

Dear Jessica Vickers:

Enclosed are the analytical results for sample(s) received by the laboratory on August 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,



Kevin Herring for  
Nicole Benjamin  
nicole.benjamin@pacelabs.com  
Project Manager

Enclosures

cc: Chris Jones, Tetra Tech



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: DELTA MILLS

Pace Project No.: 92214063

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### **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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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: DELTA MILLS

Pace Project No.: 92214063

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92214063001	DM-S-010	Solid	08/20/14 07:20	08/20/14 11:45
92214063002	DM-S-012	Solid	08/20/14 07:30	08/20/14 11:45
92214063003	DM-S-013	Solid	08/20/14 07:35	08/20/14 11:45
92214063004	DM-S-014-R1	Solid	08/20/14 07:40	08/20/14 11:45
92214063005	DM-S-015-R1	Solid	08/20/14 07:45	08/20/14 11:45
92214063007	DM-S-018-R1	Solid	08/20/14 08:00	08/20/14 11:45
92214063008	DM-S-020	Solid	08/20/14 08:20	08/20/14 11:45
92214063009	DM-S-021	Solid	08/20/14 08:40	08/20/14 11:45
92214063010	DM-S-001-R1	Solid	08/20/14 08:30	08/20/14 11:45

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: DELTA MILLS  
Pace Project No.: 92214063

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92214063001	DM-S-010	EPA 8082	RES	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92214063002	DM-S-012	EPA 8082	RES	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92214063003	DM-S-013	EPA 8082	RES	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92214063004	DM-S-014-R1	EPA 8082	RES	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92214063005	DM-S-015-R1	EPA 8082	RES	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92214063007	DM-S-018-R1	EPA 8082	RES	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92214063008	DM-S-020	EPA 8082	RES	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92214063009	DM-S-021	EPA 8082	RES	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92214063010	DM-S-001-R1	EPA 8082	RES	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: DELTA MILLS

Pace Project No.: 92214063

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92214063001</b>	<b>DM-S-010</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	6160	ug/kg	893	08/21/14 13:15	
ASTM D2974-87	Percent Moisture	7.6	%	0.10	08/21/14 14:35	
<b>92214063002</b>	<b>DM-S-012</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	3890	ug/kg	355	08/21/14 13:36	
ASTM D2974-87	Percent Moisture	7.1	%	0.10	08/21/14 14:36	
<b>92214063003</b>	<b>DM-S-013</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	2020	ug/kg	178	08/21/14 09:48	
ASTM D2974-87	Percent Moisture	7.1	%	0.10	08/21/14 14:36	
<b>92214063004</b>	<b>DM-S-014-R1</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	981	ug/kg	174	08/21/14 10:09	
ASTM D2974-87	Percent Moisture	5.4	%	0.10	08/21/14 14:36	
<b>92214063005</b>	<b>DM-S-015-R1</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	4130	ug/kg	698	08/21/14 13:56	
ASTM D2974-87	Percent Moisture	5.5	%	0.10	08/21/14 14:37	
<b>92214063007</b>	<b>DM-S-018-R1</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	491	ug/kg	210	08/21/14 11:11	
ASTM D2974-87	Percent Moisture	21.3	%	0.10	08/21/14 14:32	
<b>92214063008</b>	<b>DM-S-020</b>					
EPA 8082	PCB-1254 (Aroclor 1254)	18.2J	ug/kg	35.3	08/21/14 11:31	
ASTM D2974-87	Percent Moisture	6.4	%	0.10	08/21/14 14:32	
<b>92214063009</b>	<b>DM-S-021</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	94.2J	ug/kg	177	08/21/14 11:52	
ASTM D2974-87	Percent Moisture	7.0	%	0.10	08/21/14 14:32	
<b>92214063010</b>	<b>DM-S-001-R1</b>					
EPA 8082	PCB-1254 (Aroclor 1254)	31.2J	ug/kg	35.8	08/21/14 12:12	
ASTM D2974-87	Percent Moisture	7.8	%	0.10	08/21/14 14:32	

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: DELTA MILLS

Pace Project No.: 92214063

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**Method:** EPA 8082

**Description:** 8082 GCS PCB SC

**Client:** Tetra Tech EMI

**Date:** August 21, 2014

**General Information:**

9 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/29500

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- DM-S-010 (Lab ID: 92214063001)
  - Decachlorobiphenyl (S)
- DM-S-012 (Lab ID: 92214063002)
  - Decachlorobiphenyl (S)
- DM-S-013 (Lab ID: 92214063003)
  - Decachlorobiphenyl (S)
- DM-S-014-R1 (Lab ID: 92214063004)
  - Decachlorobiphenyl (S)
- DM-S-015-R1 (Lab ID: 92214063005)
  - Decachlorobiphenyl (S)
- DM-S-018-R1 (Lab ID: 92214063007)
  - Decachlorobiphenyl (S)
- DM-S-021 (Lab ID: 92214063009)
  - Decachlorobiphenyl (S)

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: DELTA MILLS

Pace Project No.: 92214063

---

**Method:** EPA 8082

**Description:** 8082 GCS PCB SC

**Client:** Tetra Tech EMI

**Date:** August 21, 2014

### Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: DELTA MILLS

Pace Project No.: 92214063

**Sample: DM-S-010**      **Lab ID: 92214063001**      Collected: 08/20/14 07:20      Received: 08/20/14 11:45      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082    Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	893	406	25	08/20/14 13:15	08/21/14 13:15	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	893	406	25	08/20/14 13:15	08/21/14 13:15	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	893	406	25	08/20/14 13:15	08/21/14 13:15	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	893	406	25	08/20/14 13:15	08/21/14 13:15	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	893	406	25	08/20/14 13:15	08/21/14 13:15	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	893	406	25	08/20/14 13:15	08/21/14 13:15	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>6160</b>	ug/kg	893	406	25	08/20/14 13:15	08/21/14 13:15	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		25	08/20/14 13:15	08/21/14 13:15	2051-24-3	S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	<b>7.6</b>	%	0.10	0.10	1		08/21/14 14:35		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: DELTA MILLS

Pace Project No.: 92214063

**Sample: DM-S-012**      **Lab ID: 92214063002**      Collected: 08/20/14 07:30      Received: 08/20/14 11:45      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082    Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	355	161	10	08/20/14 13:15	08/21/14 13:36	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	355	161	10	08/20/14 13:15	08/21/14 13:36	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	355	161	10	08/20/14 13:15	08/21/14 13:36	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	355	161	10	08/20/14 13:15	08/21/14 13:36	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	355	161	10	08/20/14 13:15	08/21/14 13:36	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	355	161	10	08/20/14 13:15	08/21/14 13:36	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>3890</b>	ug/kg	355	161	10	08/20/14 13:15	08/21/14 13:36	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		10	08/20/14 13:15	08/21/14 13:36	2051-24-3	S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	<b>7.1</b>	%	0.10	0.10	1		08/21/14 14:36		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: DELTA MILLS

Pace Project No.: 92214063

**Sample: DM-S-013**      **Lab ID: 92214063003**      Collected: 08/20/14 07:35      Received: 08/20/14 11:45      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082    Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	178	80.7	5	08/20/14 13:15	08/21/14 09:48	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	178	80.7	5	08/20/14 13:15	08/21/14 09:48	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	178	80.7	5	08/20/14 13:15	08/21/14 09:48	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	178	80.7	5	08/20/14 13:15	08/21/14 09:48	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	178	80.7	5	08/20/14 13:15	08/21/14 09:48	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	178	80.7	5	08/20/14 13:15	08/21/14 09:48	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>2020</b>	ug/kg	178	80.7	5	08/20/14 13:15	08/21/14 09:48	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		5	08/20/14 13:15	08/21/14 09:48	2051-24-3	S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	<b>7.1</b>	%	0.10	0.10	1		08/21/14 14:36		

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## ANALYTICAL RESULTS

Project: DELTA MILLS

Pace Project No.: 92214063

**Sample: DM-S-014-R1**      **Lab ID: 92214063004**      Collected: 08/20/14 07:40      Received: 08/20/14 11:45      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082    Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	174	79.3	5	08/20/14 13:15	08/21/14 10:09	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	174	79.3	5	08/20/14 13:15	08/21/14 10:09	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	174	79.3	5	08/20/14 13:15	08/21/14 10:09	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	174	79.3	5	08/20/14 13:15	08/21/14 10:09	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	174	79.3	5	08/20/14 13:15	08/21/14 10:09	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	174	79.3	5	08/20/14 13:15	08/21/14 10:09	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>981</b>	ug/kg	174	79.3	5	08/20/14 13:15	08/21/14 10:09	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		5	08/20/14 13:15	08/21/14 10:09	2051-24-3	S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	<b>5.4</b>	%	0.10	0.10	1		08/21/14 14:36		

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## ANALYTICAL RESULTS

Project: DELTA MILLS

Pace Project No.: 92214063

**Sample: DM-S-015-R1**      **Lab ID: 92214063005**      Collected: 08/20/14 07:45      Received: 08/20/14 11:45      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082    Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	698	317	20	08/20/14 13:15	08/21/14 13:56	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	698	317	20	08/20/14 13:15	08/21/14 13:56	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	698	317	20	08/20/14 13:15	08/21/14 13:56	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	698	317	20	08/20/14 13:15	08/21/14 13:56	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	698	317	20	08/20/14 13:15	08/21/14 13:56	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	698	317	20	08/20/14 13:15	08/21/14 13:56	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>4130</b>	ug/kg	698	317	20	08/20/14 13:15	08/21/14 13:56	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		20	08/20/14 13:15	08/21/14 13:56	2051-24-3	S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	<b>5.5</b>	%	0.10	0.10	1		08/21/14 14:37		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: DELTA MILLS

Pace Project No.: 92214063

**Sample: DM-S-018-R1**      **Lab ID: 92214063007**      Collected: 08/20/14 08:00      Received: 08/20/14 11:45      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>		Analytical Method: EPA 8082    Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	210	95.3	5	08/20/14 13:15	08/21/14 11:11	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	210	95.3	5	08/20/14 13:15	08/21/14 11:11	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	210	95.3	5	08/20/14 13:15	08/21/14 11:11	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	210	95.3	5	08/20/14 13:15	08/21/14 11:11	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	210	95.3	5	08/20/14 13:15	08/21/14 11:11	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	210	95.3	5	08/20/14 13:15	08/21/14 11:11	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>491</b>	ug/kg	210	95.3	5	08/20/14 13:15	08/21/14 11:11	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		5	08/20/14 13:15	08/21/14 11:11	2051-24-3	S4
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>21.3</b>	%	0.10	0.10	1		08/21/14 14:32		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: DELTA MILLS

Pace Project No.: 92214063

**Sample: DM-S-020**      **Lab ID: 92214063008**      Collected: 08/20/14 08:20      Received: 08/20/14 11:45      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082    Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	35.3	16.0	1	08/20/14 13:15	08/21/14 11:31	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	35.3	16.0	1	08/20/14 13:15	08/21/14 11:31	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	35.3	16.0	1	08/20/14 13:15	08/21/14 11:31	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	35.3	16.0	1	08/20/14 13:15	08/21/14 11:31	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	35.3	16.0	1	08/20/14 13:15	08/21/14 11:31	12672-29-6	
PCB-1254 (Aroclor 1254)	<b>18.2J</b>	ug/kg	35.3	16.0	1	08/20/14 13:15	08/21/14 11:31	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	35.3	16.0	1	08/20/14 13:15	08/21/14 11:31	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	21	%	10-128		1	08/20/14 13:15	08/21/14 11:31	2051-24-3	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	<b>6.4</b>	%	0.10	0.10	1		08/21/14 14:32		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: DELTA MILLS

Pace Project No.: 92214063

**Sample: DM-S-021**      **Lab ID: 92214063009**      Collected: 08/20/14 08:40      Received: 08/20/14 11:45      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>		Analytical Method: EPA 8082    Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	177	80.6	5	08/20/14 13:15	08/21/14 11:52	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	177	80.6	5	08/20/14 13:15	08/21/14 11:52	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	177	80.6	5	08/20/14 13:15	08/21/14 11:52	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	177	80.6	5	08/20/14 13:15	08/21/14 11:52	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	177	80.6	5	08/20/14 13:15	08/21/14 11:52	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	177	80.6	5	08/20/14 13:15	08/21/14 11:52	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>94.2J</b>	ug/kg	177	80.6	5	08/20/14 13:15	08/21/14 11:52	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		5	08/20/14 13:15	08/21/14 11:52	2051-24-3	S4
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>7.0</b>	%	0.10	0.10	1		08/21/14 14:32		

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## ANALYTICAL RESULTS

Project: DELTA MILLS

Pace Project No.: 92214063

**Sample: DM-S-001-R1**      **Lab ID: 92214063010**      Collected: 08/20/14 08:30      Received: 08/20/14 11:45      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>		Analytical Method: EPA 8082    Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	35.8	16.3	1	08/20/14 13:15	08/21/14 12:12	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	35.8	16.3	1	08/20/14 13:15	08/21/14 12:12	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	35.8	16.3	1	08/20/14 13:15	08/21/14 12:12	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	35.8	16.3	1	08/20/14 13:15	08/21/14 12:12	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	35.8	16.3	1	08/20/14 13:15	08/21/14 12:12	12672-29-6	
PCB-1254 (Aroclor 1254)	<b>31.2J</b>	ug/kg	35.8	16.3	1	08/20/14 13:15	08/21/14 12:12	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	35.8	16.3	1	08/20/14 13:15	08/21/14 12:12	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	60 %		10-128		1	08/20/14 13:15	08/21/14 12:12	2051-24-3	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>7.8 %</b>		0.10	0.10	1		08/21/14 14:32		

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### QUALITY CONTROL DATA

Project: DELTA MILLS

Pace Project No.: 92214063

QC Batch: OEXT/29500

Analysis Method: EPA 8082

QC Batch Method: EPA 3546

Analysis Description: 8082 GCS PCB SC

Associated Lab Samples: 92214063001, 92214063002, 92214063003, 92214063004, 92214063005, 92214063007, 92214063008, 92214063009, 92214063010

METHOD BLANK: 1267617

Matrix: Solid

Associated Lab Samples: 92214063001, 92214063002, 92214063003, 92214063004, 92214063005, 92214063007, 92214063008, 92214063009, 92214063010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	08/20/14 21:52	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.0	08/20/14 21:52	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	08/20/14 21:52	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	08/20/14 21:52	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	08/20/14 21:52	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	08/20/14 21:52	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	08/20/14 21:52	
Decachlorobiphenyl (S)	%	92	10-128	08/20/14 21:52	

LABORATORY CONTROL SAMPLE & LCSD: 1267618

1267619

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	120	133	72	80	42-137	11	30	
PCB-1260 (Aroclor 1260)	ug/kg	167	145	161	87	96	46-140	10	30	
Decachlorobiphenyl (S)	%				88	96	10-128			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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### QUALITY CONTROL DATA

Project: DELTA MILLS

Pace Project No.: 92214063

QC Batch: PMST/6953

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 92214063007, 92214063008, 92214063009, 92214063010

SAMPLE DUPLICATE: 1268884

Parameter	Units	92212484001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	97.4	97.3	0	25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALIFIERS

Project: DELTA MILLS

Pace Project No.: 92214063

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### 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.

PQL - Practical Quantitation 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

### ANALYTE QUALIFIERS

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DELTA MILLS

Pace Project No.: 92214063

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92214063001	DM-S-010	EPA 3546	OEXT/29500	EPA 8082	GCSV/18634
92214063002	DM-S-012	EPA 3546	OEXT/29500	EPA 8082	GCSV/18634
92214063003	DM-S-013	EPA 3546	OEXT/29500	EPA 8082	GCSV/18634
92214063004	DM-S-014-R1	EPA 3546	OEXT/29500	EPA 8082	GCSV/18634
92214063005	DM-S-015-R1	EPA 3546	OEXT/29500	EPA 8082	GCSV/18634
92214063007	DM-S-018-R1	EPA 3546	OEXT/29500	EPA 8082	GCSV/18634
92214063008	DM-S-020	EPA 3546	OEXT/29500	EPA 8082	GCSV/18634
92214063009	DM-S-021	EPA 3546	OEXT/29500	EPA 8082	GCSV/18634
92214063010	DM-S-001-R1	EPA 3546	OEXT/29500	EPA 8082	GCSV/18634
92214063001	DM-S-010	ASTM D2974-87	PMST/6952		
92214063002	DM-S-012	ASTM D2974-87	PMST/6952		
92214063003	DM-S-013	ASTM D2974-87	PMST/6952		
92214063004	DM-S-014-R1	ASTM D2974-87	PMST/6952		
92214063005	DM-S-015-R1	ASTM D2974-87	PMST/6952		
92214063007	DM-S-018-R1	ASTM D2974-87	PMST/6953		
92214063008	DM-S-020	ASTM D2974-87	PMST/6953		
92214063009	DM-S-021	ASTM D2974-87	PMST/6953		
92214063010	DM-S-001-R1	ASTM D2974-87	PMST/6953		

### REPORT OF LABORATORY ANALYSIS

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Document Name: Document Revised: April 07, 2014  
 Sample Condition Upon Receipt (SCUR) Page 1 of 2  
 Document Number: Issuing Authority:  
 F-CHR-CS-003-rev.14 Pace Huntersville Quality Office

Client Name: Tetra Tech

Courier:  Fed Ex  UPS  Client  Commercial  Pace Other \_\_\_\_\_  
 Custody Seal on Cooler/Box Present:  yes  no Seals intact:  yes  no

Packing Material:  Bubble Wrap  Bubble Bags  None  Other z/c

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.: N/A °C Biological Tissue is Frozen: Yes No (N/A)  
 Temp should be above freezing to 6°C

Date and Initials of person examining contents: 8/20/14

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 (<7hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/> Yes <input 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 type="checkbox"/> Yes <input checked="" 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 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 type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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 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:

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Field Data Required? Y / N

Comments/ Resolution:

SCUR Review: NMG Date: 8/20/14  
 SRF Review: NS Date: 8/20/14

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#: 92214063



92214063



August 28, 2014

Jessica Vickers  
Tetra Tech  
950 South 4th Street  
Baldwyn, MS 38824

RE: Project: Delta Mills  
Pace Project No.: 92215094

Dear Jessica Vickers:

Enclosed are the analytical results for sample(s) received by the laboratory on August 27, 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,



Nicole Benjamin  
nicole.benjamin@pacelabs.com  
Project Manager

Enclosures

cc: Chris Jones, Tetra Tech



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Delta Mills

Pace Project No.: 92215094

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### **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  
Georgia Certification: Virginia/VELAP ID# 46022  
Kentucky UST Certification #: 84  
West Virginia Certification #: 357  
Virginia/VELAP Certification #: 460221

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Delta Mills

Pace Project No.: 92215094

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92215094001	DM-S-008-R1	Solid	08/27/14 13:35	08/27/14 15:50
92215094002	DM-S-009-R1	Solid	08/27/14 13:45	08/27/14 15:50
92215094003	DM-S-011-R1	Solid	08/27/14 08:45	08/27/14 15:50
92215094004	DM-S-011-R1-DUP	Solid	08/27/14 08:50	08/27/14 15:50
92215094005	DM-S-012-R1	Solid	08/27/14 09:25	08/27/14 15:50
92215094006	DM-S-013-R1	Solid	08/27/14 09:35	08/27/14 15:50
92215094007	DM-S-017-R1	Solid	08/27/14 10:20	08/27/14 15:50
92215094008	DM-S-BACKFILL	Solid	08/27/14 10:35	08/27/14 15:50

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Delta Mills

Pace Project No.: 92215094

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92215094001	DM-S-008-R1	EPA 8082	JDW1	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92215094002	DM-S-009-R1	EPA 8082	JDW1	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92215094003	DM-S-011-R1	EPA 8082	JDW1	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92215094004	DM-S-011-R1-DUP	EPA 8082	JDW1	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92215094005	DM-S-012-R1	EPA 8082	JDW1	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92215094006	DM-S-013-R1	EPA 8082	JDW1	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92215094007	DM-S-017-R1	EPA 8082	JDW1	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92215094008	DM-S-BACKFILL	EPA 8082	JDW1	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Delta Mills  
Pace Project No.: 92215094

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92215094001</b>	<b>DM-S-008-R1</b>					
ASTM D2974-87	Percent Moisture	3.4 %		0.10	08/28/14 13:48	
<b>92215094002</b>	<b>DM-S-009-R1</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	423 ug/kg		351	08/28/14 12:08	
ASTM D2974-87	Percent Moisture	5.9 %		0.10	08/28/14 13:48	
<b>92215094003</b>	<b>DM-S-011-R1</b>					
EPA 8082	PCB-1248 (Aroclor 1248)	1560 ug/kg		354	08/28/14 12:28	
ASTM D2974-87	Percent Moisture	6.8 %		0.10	08/28/14 13:48	
<b>92215094004</b>	<b>DM-S-011-R1-DUP</b>					
EPA 8082	PCB-1248 (Aroclor 1248)	1740 ug/kg		354	08/28/14 12:49	
ASTM D2974-87	Percent Moisture	6.7 %		0.10	08/28/14 13:48	
<b>92215094005</b>	<b>DM-S-012-R1</b>					
ASTM D2974-87	Percent Moisture	5.8 %		0.10	08/28/14 13:49	
<b>92215094006</b>	<b>DM-S-013-R1</b>					
ASTM D2974-87	Percent Moisture	6.5 %		0.10	08/28/14 13:49	
<b>92215094007</b>	<b>DM-S-017-R1</b>					
ASTM D2974-87	Percent Moisture	4.3 %		0.10	08/28/14 13:49	
<b>92215094008</b>	<b>DM-S-BACKFILL</b>					
ASTM D2974-87	Percent Moisture	11.2 %		0.10	08/28/14 13:49	

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Delta Mills

Pace Project No.: 92215094

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**Method:** EPA 8082

**Description:** 8082 GCS PCB SC

**Client:** Tetra Tech EMI

**Date:** August 28, 2014

**General Information:**

8 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/29633

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- DM-S-008-R1 (Lab ID: 92215094001)
  - Decachlorobiphenyl (S)
- DM-S-009-R1 (Lab ID: 92215094002)
  - Decachlorobiphenyl (S)
- DM-S-011-R1 (Lab ID: 92215094003)
  - Decachlorobiphenyl (S)
- DM-S-011-R1-DUP (Lab ID: 92215094004)
  - Decachlorobiphenyl (S)
- DM-S-012-R1 (Lab ID: 92215094005)
  - Decachlorobiphenyl (S)
- DM-S-013-R1 (Lab ID: 92215094006)
  - Decachlorobiphenyl (S)
- DM-S-017-R1 (Lab ID: 92215094007)
  - Decachlorobiphenyl (S)

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

## REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Delta Mills

Pace Project No.: 92215094

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**Method:** EPA 8082

**Description:** 8082 GCS PCB SC

**Client:** Tetra Tech EMI

**Date:** August 28, 2014

### Additional Comments:

Analyte Comments:

QC Batch: OEXT/29633

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- DM-S-008-R1 (Lab ID: 92215094001)
  - Decachlorobiphenyl (S)
- DM-S-012-R1 (Lab ID: 92215094005)
  - Decachlorobiphenyl (S)
- DM-S-013-R1 (Lab ID: 92215094006)
  - Decachlorobiphenyl (S)
- DM-S-017-R1 (Lab ID: 92215094007)
  - Decachlorobiphenyl (S)

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Delta Mills

Pace Project No.: 92215094

**Sample: DM-S-008-R1**      **Lab ID: 92215094001**      Collected: 08/27/14 13:35      Received: 08/27/14 15:50      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082    Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	342	155	10	08/27/14 17:40	08/28/14 11:47	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	342	155	10	08/27/14 17:40	08/28/14 11:47	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	342	155	10	08/27/14 17:40	08/28/14 11:47	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	342	155	10	08/27/14 17:40	08/28/14 11:47	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	342	155	10	08/27/14 17:40	08/28/14 11:47	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	342	155	10	08/27/14 17:40	08/28/14 11:47	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	342	155	10	08/27/14 17:40	08/28/14 11:47	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		10	08/27/14 17:40	08/28/14 11:47	2051-24-3	D3,S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	<b>3.4</b> %		0.10	0.10	1		08/28/14 13:48		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Delta Mills

Pace Project No.: 92215094

**Sample: DM-S-009-R1**      **Lab ID: 92215094002**      Collected: 08/27/14 13:45      Received: 08/27/14 15:50      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>		Analytical Method: EPA 8082    Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	351	159	10	08/27/14 17:40	08/28/14 12:08	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	351	159	10	08/27/14 17:40	08/28/14 12:08	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	351	159	10	08/27/14 17:40	08/28/14 12:08	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	351	159	10	08/27/14 17:40	08/28/14 12:08	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	351	159	10	08/27/14 17:40	08/28/14 12:08	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	351	159	10	08/27/14 17:40	08/28/14 12:08	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>423</b>	ug/kg	351	159	10	08/27/14 17:40	08/28/14 12:08	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		10	08/27/14 17:40	08/28/14 12:08	2051-24-3	S4
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>5.9</b>	%	0.10	0.10	1		08/28/14 13:48		

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## ANALYTICAL RESULTS

Project: Delta Mills

Pace Project No.: 92215094

**Sample: DM-S-011-R1**      **Lab ID: 92215094003**      Collected: 08/27/14 08:45      Received: 08/27/14 15:50      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>		Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	354	161	10	08/27/14 17:40	08/28/14 12:28	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	354	161	10	08/27/14 17:40	08/28/14 12:28	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	354	161	10	08/27/14 17:40	08/28/14 12:28	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	354	161	10	08/27/14 17:40	08/28/14 12:28	53469-21-9	
PCB-1248 (Aroclor 1248)	<b>1560</b>	ug/kg	354	161	10	08/27/14 17:40	08/28/14 12:28	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	354	161	10	08/27/14 17:40	08/28/14 12:28	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	354	161	10	08/27/14 17:40	08/28/14 12:28	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		10	08/27/14 17:40	08/28/14 12:28	2051-24-3	S4
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>6.8</b>	%	0.10	0.10	1		08/28/14 13:48		

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## ANALYTICAL RESULTS

Project: Delta Mills

Pace Project No.: 92215094

**Sample: DM-S-011-R1-DUP**      **Lab ID: 92215094004**      Collected: 08/27/14 08:50      Received: 08/27/14 15:50      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>		Analytical Method: EPA 8082    Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	354	161	10	08/27/14 17:40	08/28/14 12:49	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	354	161	10	08/27/14 17:40	08/28/14 12:49	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	354	161	10	08/27/14 17:40	08/28/14 12:49	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	354	161	10	08/27/14 17:40	08/28/14 12:49	53469-21-9	
PCB-1248 (Aroclor 1248)	<b>1740</b>	ug/kg	354	161	10	08/27/14 17:40	08/28/14 12:49	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	354	161	10	08/27/14 17:40	08/28/14 12:49	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	354	161	10	08/27/14 17:40	08/28/14 12:49	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		10	08/27/14 17:40	08/28/14 12:49	2051-24-3	S4
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>6.7</b>	%	0.10	0.10	1		08/28/14 13:48		

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## ANALYTICAL RESULTS

Project: Delta Mills

Pace Project No.: 92215094

**Sample: DM-S-012-R1**      **Lab ID: 92215094005**      Collected: 08/27/14 09:25      Received: 08/27/14 15:50      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>		Analytical Method: EPA 8082    Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	350	159	10	08/27/14 17:40	08/28/14 13:10	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	350	159	10	08/27/14 17:40	08/28/14 13:10	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	350	159	10	08/27/14 17:40	08/28/14 13:10	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	350	159	10	08/27/14 17:40	08/28/14 13:10	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	350	159	10	08/27/14 17:40	08/28/14 13:10	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	350	159	10	08/27/14 17:40	08/28/14 13:10	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	350	159	10	08/27/14 17:40	08/28/14 13:10	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		10	08/27/14 17:40	08/28/14 13:10	2051-24-3	D3,S4
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>5.8 %</b>		0.10	0.10	1		08/28/14 13:49		

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## ANALYTICAL RESULTS

Project: Delta Mills

Pace Project No.: 92215094

**Sample: DM-S-013-R1**      **Lab ID: 92215094006**      Collected: 08/27/14 09:35      Received: 08/27/14 15:50      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082    Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	353	160	10	08/27/14 17:40	08/28/14 13:30	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	353	160	10	08/27/14 17:40	08/28/14 13:30	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	353	160	10	08/27/14 17:40	08/28/14 13:30	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	353	160	10	08/27/14 17:40	08/28/14 13:30	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	353	160	10	08/27/14 17:40	08/28/14 13:30	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	353	160	10	08/27/14 17:40	08/28/14 13:30	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	353	160	10	08/27/14 17:40	08/28/14 13:30	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		10	08/27/14 17:40	08/28/14 13:30	2051-24-3	D3,S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	<b>6.5 %</b>		0.10	0.10	1		08/28/14 13:49		

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## ANALYTICAL RESULTS

Project: Delta Mills

Pace Project No.: 92215094

**Sample: DM-S-017-R1**      **Lab ID: 92215094007**      Collected: 08/27/14 10:20      Received: 08/27/14 15:50      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082    Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	345	157	10	08/27/14 17:40	08/28/14 13:51	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	345	157	10	08/27/14 17:40	08/28/14 13:51	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	345	157	10	08/27/14 17:40	08/28/14 13:51	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	345	157	10	08/27/14 17:40	08/28/14 13:51	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	345	157	10	08/27/14 17:40	08/28/14 13:51	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	345	157	10	08/27/14 17:40	08/28/14 13:51	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	345	157	10	08/27/14 17:40	08/28/14 13:51	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		10	08/27/14 17:40	08/28/14 13:51	2051-24-3	D3,S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	<b>4.3</b> %		0.10	0.10	1		08/28/14 13:49		

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## ANALYTICAL RESULTS

Project: Delta Mills

Pace Project No.: 92215094

**Sample: DM-S-BACKFILL**      **Lab ID: 92215094008**      Collected: 08/27/14 10:35      Received: 08/27/14 15:50      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082    Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	37.2	16.9	1	08/27/14 17:40	08/28/14 14:11	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	37.2	16.9	1	08/27/14 17:40	08/28/14 14:11	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	37.2	16.9	1	08/27/14 17:40	08/28/14 14:11	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	37.2	16.9	1	08/27/14 17:40	08/28/14 14:11	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	37.2	16.9	1	08/27/14 17:40	08/28/14 14:11	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	37.2	16.9	1	08/27/14 17:40	08/28/14 14:11	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	37.2	16.9	1	08/27/14 17:40	08/28/14 14:11	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	63 %		10-128		1	08/27/14 17:40	08/28/14 14:11	2051-24-3	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	<b>11.2 %</b>		0.10	0.10	1		08/28/14 13:49		

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Delta Mills  
Pace Project No.: 92215094

QC Batch: OEXT/29633 Analysis Method: EPA 8082  
QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB SC  
Associated Lab Samples: 92215094001, 92215094002, 92215094003, 92215094004, 92215094005, 92215094006, 92215094007, 92215094008

METHOD BLANK: 1273577 Matrix: Solid  
Associated Lab Samples: 92215094001, 92215094002, 92215094003, 92215094004, 92215094005, 92215094006, 92215094007, 92215094008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	08/28/14 15:13	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.0	08/28/14 15:13	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	08/28/14 15:13	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	08/28/14 15:13	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	08/28/14 15:13	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	08/28/14 15:13	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	08/28/14 15:13	
Decachlorobiphenyl (S)	%	89	10-128	08/28/14 15:13	

LABORATORY CONTROL SAMPLE: 1273578

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	110	66	42-137	
PCB-1260 (Aroclor 1260)	ug/kg	167	136	81	46-140	
Decachlorobiphenyl (S)	%			83	10-128	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1273579 1273580

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92215094008	Spike Conc.	Spike Conc.	Result						
PCB-1016 (Aroclor 1016)	ug/kg	ND	188	188	133	108	71	58	42-137	21	30
PCB-1260 (Aroclor 1260)	ug/kg	ND	188	188	141	110	75	58	46-140	25	30
Decachlorobiphenyl (S)	%						66	64	10-128		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALIFIERS

Project: Delta Mills

Pace Project No.: 92215094

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### 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.

PQL - Practical Quantitation 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

### ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Delta Mills

Pace Project No.: 92215094

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92215094001	DM-S-008-R1	EPA 3546	OEXT/29633	EPA 8082	GCSV/18698
92215094002	DM-S-009-R1	EPA 3546	OEXT/29633	EPA 8082	GCSV/18698
92215094003	DM-S-011-R1	EPA 3546	OEXT/29633	EPA 8082	GCSV/18698
92215094004	DM-S-011-R1-DUP	EPA 3546	OEXT/29633	EPA 8082	GCSV/18698
92215094005	DM-S-012-R1	EPA 3546	OEXT/29633	EPA 8082	GCSV/18698
92215094006	DM-S-013-R1	EPA 3546	OEXT/29633	EPA 8082	GCSV/18698
92215094007	DM-S-017-R1	EPA 3546	OEXT/29633	EPA 8082	GCSV/18698
92215094008	DM-S-BACKFILL	EPA 3546	OEXT/29633	EPA 8082	GCSV/18698
92215094001	DM-S-008-R1	ASTM D2974-87	PMST/6976		
92215094002	DM-S-009-R1	ASTM D2974-87	PMST/6976		
92215094003	DM-S-011-R1	ASTM D2974-87	PMST/6976		
92215094004	DM-S-011-R1-DUP	ASTM D2974-87	PMST/6976		
92215094005	DM-S-012-R1	ASTM D2974-87	PMST/6976		
92215094006	DM-S-013-R1	ASTM D2974-87	PMST/6976		
92215094007	DM-S-017-R1	ASTM D2974-87	PMST/6976		
92215094008	DM-S-BACKFILL	ASTM D2974-87	PMST/6976		

### REPORT OF LABORATORY ANALYSIS

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	Document Name: <b>Sample Condition Upon Receipt (SCUR)</b>	Document Revised: April 07, 2014 Page 1 of 2
	Document Number: <b>F-CHR-CS-003-rev.14</b>	Issuing Authority: Pace Huntersville Quality Office

Client Name: Tetartich

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.: N/A °C Biological Tissue is Frozen: Yes No N/A  
 Temp should be above freezing to 6°C

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/> Yes <input 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	10.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
-Includes date/time/ID/Analysis Matrix:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
exceptions: VOA, coliform, TOC, O&G, Wt-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Samples checked for dechlorination:	<input 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 type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Date and Initials of person examining contents: JW 8-27-14

Client Notification/ Resolution: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Person Contacted: \_\_\_\_\_ Field Data Required? Y / N  
 Comments/ Resolution: \_\_\_\_\_

SCUR Review: [Signature] Date: 8/27/14  
 SRF Review: NMG Date: 8/27/14

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#: 92215094





August 29, 2014

Jessica Vickers  
Tetra Tech  
950 South 4th Street  
Baldwyn, MS 38824

RE: Project: Delta Mills  
Pace Project No.: 92215328

Dear Jessica Vickers:

Enclosed are the analytical results for sample(s) received by the laboratory on August 28, 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,



Nicole Benjamin  
nicole.benjamin@pacelabs.com  
Project Manager

Enclosures

cc: Chris Jones, Tetra Tech



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Delta Mills

Pace Project No.: 92215328

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### **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  
Georgia Certification: Virginia/VELAP ID# 46022  
Kentucky UST Certification #: 84  
West Virginia Certification #: 357  
Virginia/VELAP Certification #: 460221

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Delta Mills

Pace Project No.: 92215328

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92215328001	DM-S-006	Solid	08/28/14 10:40	08/28/14 14:30
92215328002	DM-S-010-R1	Solid	08/28/14 10:50	08/28/14 14:30
92215328003	DM-S-022	Solid	08/28/14 11:40	08/28/14 14:30

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Delta Mills

Pace Project No.: 92215328

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92215328001	DM-S-006	EPA 8082	JDW1	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92215328002	DM-S-010-R1	EPA 8082	JDW1	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C
92215328003	DM-S-022	EPA 8082	JDW1	8	PASI-C
		ASTM D2974-87	ACS	1	PASI-C

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Delta Mills

Pace Project No.: 92215328

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92215328001</b>	<b>DM-S-006</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	5220	ug/kg	723	08/29/14 13:45	
ASTM D2974-87	Percent Moisture	8.7	%	0.10	08/29/14 14:28	
<b>92215328002</b>	<b>DM-S-010-R1</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	35.8	ug/kg	35.2	08/29/14 12:23	
ASTM D2974-87	Percent Moisture	6.2	%	0.10	08/29/14 14:28	
<b>92215328003</b>	<b>DM-S-022</b>					
EPA 8082	PCB-1260 (Aroclor 1260)	738	ug/kg	172	08/29/14 12:43	
ASTM D2974-87	Percent Moisture	3.9	%	0.10	08/29/14 14:29	

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Delta Mills  
Pace Project No.: 92215328

---

**Method:** EPA 8082  
**Description:** 8082 GCS PCB SC  
**Client:** Tetra Tech EMI  
**Date:** August 29, 2014

**General Information:**

3 samples were analyzed for EPA 8082. All samples were received in acceptable condition with any exceptions noted below.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Sample Preparation:**

The samples were prepared in accordance with EPA 3546 with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Surrogates:**

All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/29669

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- DM-S-006 (Lab ID: 92215328001)
  - Decachlorobiphenyl (S)
- DM-S-022 (Lab ID: 92215328003)
  - Decachlorobiphenyl (S)

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Matrix Spikes:**

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Delta Mills

Pace Project No.: 92215328

**Sample: DM-S-006**      **Lab ID: 92215328001**      Collected: 08/28/14 10:40      Received: 08/28/14 14:30      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>		Analytical Method: EPA 8082    Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	723	329	20	08/29/14 08:30	08/29/14 13:45	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	723	329	20	08/29/14 08:30	08/29/14 13:45	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	723	329	20	08/29/14 08:30	08/29/14 13:45	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	723	329	20	08/29/14 08:30	08/29/14 13:45	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	723	329	20	08/29/14 08:30	08/29/14 13:45	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	723	329	20	08/29/14 08:30	08/29/14 13:45	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>5220</b>	ug/kg	723	329	20	08/29/14 08:30	08/29/14 13:45	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		20	08/29/14 08:30	08/29/14 13:45	2051-24-3	S4
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>8.7</b>	%	0.10	0.10	1		08/29/14 14:28		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Delta Mills

Pace Project No.: 92215328

**Sample: DM-S-010-R1**      **Lab ID: 92215328002**      Collected: 08/28/14 10:50      Received: 08/28/14 14:30      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>		Analytical Method: EPA 8082 Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	35.2	16.0	1	08/29/14 08:30	08/29/14 12:23	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	35.2	16.0	1	08/29/14 08:30	08/29/14 12:23	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	35.2	16.0	1	08/29/14 08:30	08/29/14 12:23	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	35.2	16.0	1	08/29/14 08:30	08/29/14 12:23	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	35.2	16.0	1	08/29/14 08:30	08/29/14 12:23	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	35.2	16.0	1	08/29/14 08:30	08/29/14 12:23	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>35.8</b>	ug/kg	35.2	16.0	1	08/29/14 08:30	08/29/14 12:23	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	41	%	10-128		1	08/29/14 08:30	08/29/14 12:23	2051-24-3	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>6.2</b>	%	0.10	0.10	1		08/29/14 14:28		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Delta Mills

Pace Project No.: 92215328

**Sample: DM-S-022**      **Lab ID: 92215328003**      Collected: 08/28/14 11:40      Received: 08/28/14 14:30      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>		Analytical Method: EPA 8082    Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	ND	ug/kg	172	78.0	5	08/29/14 08:30	08/29/14 12:43	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	172	78.0	5	08/29/14 08:30	08/29/14 12:43	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	172	78.0	5	08/29/14 08:30	08/29/14 12:43	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	172	78.0	5	08/29/14 08:30	08/29/14 12:43	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	172	78.0	5	08/29/14 08:30	08/29/14 12:43	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	172	78.0	5	08/29/14 08:30	08/29/14 12:43	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>738</b>	ug/kg	172	78.0	5	08/29/14 08:30	08/29/14 12:43	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		5	08/29/14 08:30	08/29/14 12:43	2051-24-3	S4
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>3.9</b>	%	0.10	0.10	1		08/29/14 14:29		

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Delta Mills

Pace Project No.: 92215328

QC Batch: OEXT/29669

Analysis Method: EPA 8082

QC Batch Method: EPA 3546

Analysis Description: 8082 GCS PCB SC

Associated Lab Samples: 92215328001, 92215328002, 92215328003

METHOD BLANK: 1274849

Matrix: Solid

Associated Lab Samples: 92215328001, 92215328002, 92215328003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	ND	33.0	08/29/14 13:04	
PCB-1221 (Aroclor 1221)	ug/kg	ND	33.0	08/29/14 13:04	
PCB-1232 (Aroclor 1232)	ug/kg	ND	33.0	08/29/14 13:04	
PCB-1242 (Aroclor 1242)	ug/kg	ND	33.0	08/29/14 13:04	
PCB-1248 (Aroclor 1248)	ug/kg	ND	33.0	08/29/14 13:04	
PCB-1254 (Aroclor 1254)	ug/kg	ND	33.0	08/29/14 13:04	
PCB-1260 (Aroclor 1260)	ug/kg	ND	33.0	08/29/14 13:04	
Decachlorobiphenyl (S)	%	80	10-128	08/29/14 13:04	

LABORATORY CONTROL SAMPLE: 1274850

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	124	75	42-137	
PCB-1260 (Aroclor 1260)	ug/kg	167	142	85	46-140	
Decachlorobiphenyl (S)	%			85	10-128	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Delta Mills

Pace Project No.: 92215328

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### 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.

PQL - Practical Quantitation 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

### ANALYTE QUALIFIERS

R1 RPD value was outside control limits.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Delta Mills

Pace Project No.: 92215328

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92215328001	DM-S-006	EPA 3546	OEXT/29669	EPA 8082	GCSV/18724
92215328002	DM-S-010-R1	EPA 3546	OEXT/29669	EPA 8082	GCSV/18724
92215328003	DM-S-022	EPA 3546	OEXT/29669	EPA 8082	GCSV/18724
92215328001	DM-S-006	ASTM D2974-87	PMST/6981		
92215328002	DM-S-010-R1	ASTM D2974-87	PMST/6981		
92215328003	DM-S-022	ASTM D2974-87	PMST/6981		

### 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: Tebratex

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.: N/A °C Biological Tissue is Frozen: Yes No N/A

Temp should be above freezing to 6°C

Comments:

Optional  
 Proj. Due Date:  
 Proj. Name:

Date and Initials of person examining contents: JL 8-28-14

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 type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input checked="" 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 checked="" type="checkbox"/> Yes <input 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 checked="" 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 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 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 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: NB Date: 8/25/14  
 SRF Review: NB Date: 8/29/14

Place label here

OR

Handwrite project number  
 (if no label available)

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)



**CHAIN-OF-CUSTODY / Analytical Request Document**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

92215328

Page: 1 of 1

<b>Section A</b> Required Client Information: Company: <u>ETA Tech</u> Address: <u>185 Evergreen Blvd</u> Email To: <u>Delia G. 30006</u> Phone: <u>402.681.5724</u> Requested Due Date/At: <u>ASAP</u>		<b>Section B</b> Required Project Information: Report To: <u>Jessica Vinkes @ eta-tech.com</u> Copy To: <u>Brian Wolf @ eta-tech.com</u> Purchase Order No.: Project Name: <u>Delta Mills</u> Project Number:		<b>Section C</b> Invoice Information: Attention: Company Name: Address: Pace Quote Reference: Pace Project Manager: Pace Profile #:	
<b>REGULATORY AGENCY</b> <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER		<b>Site Location</b> STATE: <u>SC</u>		Requested Analysis Filtered (Y/N)	

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	SAMPLE CONDITIONS	
			COMPOSITE START	COMPOSITE END/GRAB							DATE	TIME
1	DM-S-0006	DW WT WW P SL OL Wipe Air Tissue Other	SLC	8/28/14 10:40		1		PCBS				
2	DM-S-010-R1		SLC	8/28/14 10:50		1						
3	DM-S-022		SLC	8/28/14 11:40		1						
4												
5												
6												
7												
8												
9												
10												
11												
12												

<b>SAMPLER NAME AND SIGNATURE</b> PRINT Name of SAMPLER: <u>Brian Wolf</u> SIGNATURE of SAMPLER: <u>Brian Wolf</u>		DATE Signed (MM/DD/YY): <u>8/28/14</u>		Temp in °C	
<b>RELEASING BY / AFFILIATION</b> SIGNATURE: <u>Brian Wolf</u> DATE: <u>8/28/14</u>		<b>ACCEPTED BY / AFFILIATION</b> SIGNATURE: <u>Jessica Vinkes</u> DATE: <u>8/28/14</u>		Received on Ice (Y/N) <u>N</u>	
<b>ADDITIONAL COMMENTS</b> <u>BSCA</u>				Custody Sealed Cooler (Y/N) <u>N</u>	
				Samples Intact (Y/N) <u>Y</u>	

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

**ENCLOSURE 4**

**TETRA TECH DATA VALIDATION REPORT**

(86 Pages)



## DATA VALIDATION CHECKLIST – STAGE 2A

(Page 1 of 3)

<b>Site Name</b>	Delta Mills	<b>Project No.</b>	103X9025144069
<b>Data Reviewer (signature and date)</b>	<i>Jessica A. Vickers</i> 07/23/2014	<b>Laboratory Report No.</b>	92209801
<b>Analyses</b>	Polychlorinated biphenyls (PCBs) – SW-846 Method 8082A		
<b>Samples</b>	DM-SF-FILL LINE		

This checklist summarizes the Stage 2A validation performed on the subject laboratory report, in accordance with the Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the EPA *Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Superfund Organic Methods Data Review* (June 2008) data validation guidance document, as well as the above referenced method.

**Data completeness:**

Within Criteria	Exceedance/Notes
X	

**Sample preservation, receipt, and holding times:**

Within Criteria	Exceedance/Notes
X	

**Method blanks:**

Within Criteria	Exceedance/Notes
X	

**Field blanks:**

Within Criteria	Exceedance/Notes
	None performed for this report.



## DATA VALIDATION CHECKLIST – STAGE 2A

(Page 2 of 3)

### System monitoring compounds (surrogates):

Within Criteria	Exceedance/Notes
	No %R for surrogate due to 40x dilution – no action per NFG

### MS/MSD:

Within Criteria	Exceedance/Notes
	None performed for this report.

### LCSs/LCSDs:

Within Criteria	Exceedance/Notes
X	

### Sample dilutions:

Within Criteria	Exceedance/Notes
	40x dilution required due to oily matrix – RLs elevated for non-detects

### Re-extraction and reanalysis:

Within Criteria	Exceedance/Notes
	None performed for this report.

### MDLs/RLs:

Within Criteria	Exceedance/Notes
X	



## DATA VALIDATION CHECKLIST – STAGE 2A

(Page 3 of 3)

### Overall Qualifications:

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

### ANALYTICAL RESULTS

Project: DELTA MILLS  
Pace Project No.: 92209801

Sample: DM-SF-FILL LINE Lab ID: 92209801001 Collected: 07/17/14 09:15 Received: 07/18/14 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	5630	2560	40	07/18/14 14:55	07/21/14 10:46	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	5630	2560	40	07/18/14 14:55	07/21/14 10:46	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	5630	2560	40	07/18/14 14:55	07/21/14 10:46	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	5630	2560	40	07/18/14 14:55	07/21/14 10:46	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	5630	2560	40	07/18/14 14:55	07/21/14 10:46	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	5630	2560	40	07/18/14 14:55	07/21/14 10:46	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	5630	2560	40	07/18/14 14:55	07/21/14 10:46	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		40	07/18/14 14:55	07/21/14 10:46	2051-24-3	D3,S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	6.2 %		0.10	0.10	1		07/21/14 13:27		

*gaw*  
07/24/14

### REPORT OF LABORATORY ANALYSIS

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## DATA VALIDATION CHECKLIST – STAGE 2A

(Page 1 of 3)

<b>Site Name</b>	Delta Mills	<b>Project No.</b>	103X9025144069
<b>Data Reviewer (signature and date)</b>	<i>Jessica A. Vickers</i> 09/17/2014	<b>Laboratory Report No.</b>	92211819
<b>Analyses</b>	Polychlorinated biphenyls (PCBs) – SW-846 Method 8082A		
<b>Samples</b>	DM-W-001, DM-W-002, DM-W-003, DM-W-004, and DM-W-005		

This checklist summarizes the Stage 2A validation performed on the subject laboratory report, in accordance with the Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the EPA *Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Superfund Organic Methods Data Review* (June 2008) data validation guidance document, as well as the above referenced method.

**Data completeness:**

Within Criteria	Exceedance/Notes
X	

**Sample preservation, receipt, and holding times:**

Within Criteria	Exceedance/Notes
X	

**Method blanks:**

Within Criteria	Exceedance/Notes
X	

**Field blanks:**

Within Criteria	Exceedance/Notes
	No field blanks are required for wipe samples.



## DATA VALIDATION CHECKLIST – STAGE 2A

(Page 2 of 3)

### System monitoring compounds (surrogates):

Within Criteria	Exceedance/Notes
	No %R for surrogates for all samples except DM-W-003 due to dilutions – no action per NFG

### MS/MSD:

Within Criteria	Exceedance/Notes
	MS/MSD are not required for wipe samples.

### Field duplicates:

Within Criteria	Exceedance/Notes
	None performed for this report.

### LCSs/LCSDs:

Within Criteria	Exceedance/Notes
X	

### Sample dilutions:

Within Criteria	Exceedance/Notes
	5x dilutions for DM-W-001, DM-W-004, and DM-W-005; 10x dilution for DM-W-002 were performed – RLs elevated for non-detects

### Re-extraction and reanalysis:

Within Criteria	Exceedance/Notes
	None performed for this report.



## DATA VALIDATION CHECKLIST – STAGE 2A

(Page 3 of 3)

**MDLs/RLs:**

Within Criteria	Exceedance/Notes
X	

**Overall Qualifications:**

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

**ANALYTICAL RESULTS**

Project: Delta Mills  
Pace Project No.: 92211819

Sample: DM-W-001 Lab ID: 92211819001 Collected: 08/04/14 14:05 Received: 08/04/14 17:00 Matrix: Wipe

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3580 (Wipe)									
PCB-1016 (Aroclor 1016)	ND Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 09:40	12674-11-2	
PCB-1221 (Aroclor 1221)	ND Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 09:40	11104-28-2	
PCB-1232 (Aroclor 1232)	ND Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 09:40	11141-16-5	
PCB-1242 (Aroclor 1242)	ND Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 09:40	53469-21-9	
PCB-1248 (Aroclor 1248)	ND Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 09:40	12672-29-6	
PCB-1254 (Aroclor 1254)	ND Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 09:40	11097-69-1	
PCB-1260 (Aroclor 1260)	24.7 Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 09:40	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		70-130		5	08/05/14 08:04	08/05/14 09:40	2051-24-3	S4

↓

5.0

*gaw*  
09/17/14

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### ANALYTICAL RESULTS

Project: Delta Mills  
Pace Project No.: 92211819

Sample: DM-W-002		Lab ID: 92211819002	Collected: 08/04/14 14:06	Received: 08/04/14 17:00	Matrix: Wipe				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b>		Analytical Method: EPA 8082 Preparation Method: EPA 3580 (Wipe)							
PCB-1016 (Aroclor 1016)	ND Total ug		10.0	10.0	10	08/05/14 08:04	08/05/14 13:47	12674-11-2	
PCB-1221 (Aroclor 1221)	ND Total ug		10.0	10.0	10	08/05/14 08:04	08/05/14 13:47	11104-28-2	
PCB-1232 (Aroclor 1232)	ND Total ug		10.0	10.0	10	08/05/14 08:04	08/05/14 13:47	11141-16-5	
PCB-1242 (Aroclor 1242)	ND Total ug		10.0	10.0	10	08/05/14 08:04	08/05/14 13:47	53469-21-9	
PCB-1248 (Aroclor 1248)	ND Total ug		10.0	10.0	10	08/05/14 08:04	08/05/14 13:47	12672-29-6	
PCB-1254 (Aroclor 1254)	ND Total ug		10.0	10.0	10	08/05/14 08:04	08/05/14 13:47	11097-69-1	
PCB-1260 (Aroclor 1260)	183 Total ug		10.0	10.0	10	08/05/14 08:04	08/05/14 13:47	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		70-130		10	08/05/14 08:04	08/05/14 13:47	2051-24-3	S4

*gaw*  
09/17/14

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### ANALYTICAL RESULTS

Project: Delta Mills  
Pace Project No.: 92211819

Sample: DM-W-003		Lab ID: 92211819003	Collected: 08/04/14 14:07	Received: 08/04/14 17:00	Matrix: Wipe	Report			
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b>		Analytical Method: EPA 8082 Preparation Method: EPA 3580 (Wipe)							
PCB-1016 (Aroclor 1016)	ND Total ug	↓	1.0	1.0	1	08/05/14 08:04	08/05/14 10:21	12674-11-2	
PCB-1221 (Aroclor 1221)	ND Total ug	↓	1.0	1.0	1	08/05/14 08:04	08/05/14 10:21	11104-28-2	
PCB-1232 (Aroclor 1232)	ND Total ug	↓	1.0	1.0	1	08/05/14 08:04	08/05/14 10:21	11141-16-5	
PCB-1242 (Aroclor 1242)	ND Total ug	↓	1.0	1.0	1	08/05/14 08:04	08/05/14 10:21	53469-21-9	
PCB-1248 (Aroclor 1248)	ND Total ug	↓	1.0	1.0	1	08/05/14 08:04	08/05/14 10:21	12672-29-6	
PCB-1254 (Aroclor 1254)	ND Total ug	↓	1.0	1.0	1	08/05/14 08:04	08/05/14 10:21	11097-69-1	
PCB-1260 (Aroclor 1260)	6.4 Total ug		1.0	1.0	1	08/05/14 08:04	08/05/14 10:21	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	87 %		70-130		1	08/05/14 08:04	08/05/14 10:21	2051-24-3	

*gaw*  
09/17/14

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### ANALYTICAL RESULTS

Project: Delta Mills  
Pace Project No.: 92211819

Sample: DM-W-004      Lab ID: 92211819004      Collected: 08/04/14 14:08      Received: 08/04/14 17:00      Matrix: Wipe

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8082 GCS PCB</b>									
Analytical Method: EPA 8082      Preparation Method: EPA 3580 (Wipe)									
PCB-1016 (Aroclor 1016)	ND Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 10:42	12674-11-2	
PCB-1221 (Aroclor 1221)	ND Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 10:42	11104-28-2	
PCB-1232 (Aroclor 1232)	ND Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 10:42	11141-16-5	
PCB-1242 (Aroclor 1242)	ND Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 10:42	53469-21-9	
PCB-1248 (Aroclor 1248)	ND Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 10:42	12672-29-6	
PCB-1254 (Aroclor 1254)	ND Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 10:42	11097-69-1	
PCB-1260 (Aroclor 1260)	24.9 Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 10:42	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		70-130		5	08/05/14 08:04	08/05/14 10:42	2051-24-3	S4

↑  
↓

5.0  
5.0  
5.0  
5.0  
5.0  
5.0

*gaw*  
09/17/14

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### ANALYTICAL RESULTS

Project: Delta Mills  
Pace Project No.: 92211819

Sample: DM-W-005		Lab ID: 92211819005	Collected: 08/04/14 14:09	Received: 08/04/14 17:00	Matrix: Wipe				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3580 (Wipe)									
PCB-1016 (Aroclor 1016)	ND Total ug	↓	5.0	5.0	5	08/05/14 08:04	08/05/14 11:03	12674-11-2	
PCB-1221 (Aroclor 1221)	ND Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 11:03	11104-28-2	
PCB-1232 (Aroclor 1232)	ND Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 11:03	11141-16-5	
PCB-1242 (Aroclor 1242)	ND Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 11:03	53469-21-9	
PCB-1248 (Aroclor 1248)	ND Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 11:03	12672-29-6	
PCB-1254 (Aroclor 1254)	ND Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 11:03	11097-69-1	
PCB-1260 (Aroclor 1260)	36.1 Total ug		5.0	5.0	5	08/05/14 08:04	08/05/14 11:03	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		70-130		5	08/05/14 08:04	08/05/14 11:03	2051-24-3	S4

*jaw*  
09/17/14

### REPORT OF LABORATORY ANALYSIS

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## DATA VALIDATION CHECKLIST – STAGE 2A

(Page 1 of 3)

<b>Site Name</b>	Delta Mills	<b>Project No.</b>	103X9025144069
<b>Data Reviewer (signature and date)</b>	<i>Jessica A. Vickers</i> 09/17/2014	<b>Laboratory Report No.</b>	92212153
<b>Analyses</b>	Polychlorinated biphenyls (PCBs) – SW-846 Method 8082A		
<b>Samples</b>	DM-W-006, DM-W-007, DM-W-008, and DM-W-009		

This checklist summarizes the Stage 2A validation performed on the subject laboratory report, in accordance with the Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the EPA *Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Superfund Organic Methods Data Review* (June 2008) data validation guidance document, as well as the above referenced method.

**Data completeness:**

Within Criteria	Exceedance/Notes
X	

**Sample preservation, receipt, and holding times:**

Within Criteria	Exceedance/Notes
X	

**Method blanks:**

Within Criteria	Exceedance/Notes
X	

**Field blanks:**

Within Criteria	Exceedance/Notes
	No field blanks are required for wipe samples.



## DATA VALIDATION CHECKLIST – STAGE 2A

(Page 2 of 3)

### System monitoring compounds (surrogates):

Within Criteria	Exceedance/Notes
	No %R for surrogates for sample DM-W-006 due to dilution – no action per NFG

### MS/MSD:

Within Criteria	Exceedance/Notes
	MS/MSD are not required for wipe samples.

### Field duplicates:

Within Criteria	Exceedance/Notes
	None performed for this report.

### LCSs/LCSDs:

Within Criteria	Exceedance/Notes
X	

### Sample dilutions:

Within Criteria	Exceedance/Notes
	5x dilution for DM-W-006 was performed – RLs elevated for non-detects

### Re-extraction and reanalysis:

Within Criteria	Exceedance/Notes
	None performed for this report.



## DATA VALIDATION CHECKLIST – STAGE 2A

(Page 3 of 3)

**MDLs/RLs:**

Within Criteria	Exceedance/Notes
X	

**Overall Qualifications:**

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

### ANALYTICAL RESULTS

Project: Delta Mills PCBs  
Pace Project No.: 92212153

Sample: DM-W-006 Lab ID: 92212153001 Collected: 08/06/14 09:40 Received: 08/06/14 12:25 Matrix: Wipe

Parameters	Results	Units	Report		DF	Prepared	Analyzed	CAS No.	Qual
			Limit	MDL					
<b>8082 GCS PCB</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3580 (Wipe)									
PCB-1016 (Aroclor 1016)	ND Total ug		5.0	5.0	5	08/06/14 13:31	08/06/14 15:47	12674-11-2	
PCB-1221 (Aroclor 1221)	ND Total ug		5.0	5.0	5	08/06/14 13:31	08/06/14 15:47	11104-28-2	
PCB-1232 (Aroclor 1232)	ND Total ug		5.0	5.0	5	08/06/14 13:31	08/06/14 15:47	11141-16-5	
PCB-1242 (Aroclor 1242)	ND Total ug		5.0	5.0	5	08/06/14 13:31	08/06/14 15:47	53469-21-9	
PCB-1248 (Aroclor 1248)	ND Total ug		5.0	5.0	5	08/06/14 13:31	08/06/14 15:47	12672-29-6	
PCB-1254 (Aroclor 1254)	ND Total ug		5.0	5.0	5	08/06/14 13:31	08/06/14 15:47	11097-69-1	
PCB-1260 (Aroclor 1260)	37.6 Total ug		5.0	5.0	5	08/06/14 13:31	08/06/14 15:47	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		70-130		5	08/06/14 13:31	08/06/14 15:47	2051-24-3	S4

*gaw*  
09/17/14

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Delta Mills PCBs

Pace Project No.: 92212153

Sample: **DM-W-007** Lab ID: **92212153002** Collected: 08/06/14 09:41 Received: 08/06/14 12:25 Matrix: Wipe

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8082 GCS PCB</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3580 (Wipe)									
PCB-1016 (Aroclor 1016)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:07	12674-11-2	
PCB-1221 (Aroclor 1221)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:07	11104-28-2	
PCB-1232 (Aroclor 1232)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:07	11141-16-5	
PCB-1242 (Aroclor 1242)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:07	53469-21-9	
PCB-1248 (Aroclor 1248)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:07	12672-29-6	
PCB-1254 (Aroclor 1254)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:07	11097-69-1	
PCB-1260 (Aroclor 1260)	16.9 Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:07	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	118 %		70-130		1	08/06/14 13:31	08/06/14 16:07	2051-24-3	

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### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Delta Mills PCBs  
Pace Project No.: 92212153

Sample: DM-W-008 Lab ID: 92212153003 Collected: 08/06/14 09:50 Received: 08/06/14 12:25 Matrix: Wipe

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8082 GCS PCB</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3580 (Wipe)									
PCB-1016 (Aroclor 1016)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:28	12674-11-2	
PCB-1221 (Aroclor 1221)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:28	11104-28-2	
PCB-1232 (Aroclor 1232)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:28	11141-16-5	
PCB-1242 (Aroclor 1242)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:28	53469-21-9	
PCB-1248 (Aroclor 1248)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:28	12672-29-6	
PCB-1254 (Aroclor 1254)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:28	11097-69-1	
PCB-1260 (Aroclor 1260)	1.6 Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:28	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	113 %		70-130		1	08/06/14 13:31	08/06/14 16:28	2051-24-3	

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**ANALYTICAL RESULTS**

Project: Delta Mills PCBs  
Pace Project No.: 92212153

Sample: DM-W-009 Lab ID: 92212153004 Collected: 08/06/14 09:51 Received: 08/06/14 12:25 Matrix: Wipe

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3580 (Wipe)									
PCB-1016 (Aroclor 1016)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:48	12674-11-2	
PCB-1221 (Aroclor 1221)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:48	11104-28-2	
PCB-1232 (Aroclor 1232)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:48	11141-16-5	
PCB-1242 (Aroclor 1242)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:48	53469-21-9	
PCB-1248 (Aroclor 1248)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:48	12672-29-6	
PCB-1254 (Aroclor 1254)	ND Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:48	11097-69-1	
PCB-1260 (Aroclor 1260)	2.4 Total ug		1.0	1.0	1	08/06/14 13:31	08/06/14 16:48	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	113 %		70-130		1	08/06/14 13:31	08/06/14 16:48	2051-24-3	

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## DATA VALIDATION CHECKLIST – STAGE 2A

(Page 1 of 3)

<b>Site Name</b>	Delta Mills	<b>Project No.</b>	103X9025144069
<b>Data Reviewer (signature and date)</b>	<i>Jessica A. Vickers</i> 09/17/2014	<b>Laboratory Report No.</b>	92212499
<b>Analyses</b>	Polychlorinated biphenyls (PCBs) – SW-846 Method 8082A		
<b>Samples</b>	DM-W-010, DM-W-011, and DM-W-012		

This checklist summarizes the Stage 2A validation performed on the subject laboratory report, in accordance with the Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the EPA *Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Superfund Organic Methods Data Review* (June 2008) data validation guidance document, as well as the above referenced method.

**Data completeness:**

Within Criteria	Exceedance/Notes
X	

**Sample preservation, receipt, and holding times:**

Within Criteria	Exceedance/Notes
X	

**Method blanks:**

Within Criteria	Exceedance/Notes
X	

**Field blanks:**

Within Criteria	Exceedance/Notes
	No field blanks are required for wipe samples.



## DATA VALIDATION CHECKLIST – STAGE 2A

(Page 2 of 3)

**System monitoring compounds (surrogates):**

Within Criteria	Exceedance/Notes
X	

**MS/MSD:**

Within Criteria	Exceedance/Notes
	MS/MSD are not required for wipe samples.

**Field duplicates:**

Within Criteria	Exceedance/Notes
	None performed for this report.

**LCSs/LCSDs:**

Within Criteria	Exceedance/Notes
X	

**Sample dilutions:**

Within Criteria	Exceedance/Notes
	None performed for this report.

**Re-extraction and reanalysis:**

Within Criteria	Exceedance/Notes
	None performed for this report.



## DATA VALIDATION CHECKLIST – STAGE 2A

(Page 3 of 3)

**MDLs/RLs:**

Within Criteria	Exceedance/Notes
X	

**Overall Qualifications:**

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

### ANALYTICAL RESULTS

Project: Delta Mills PCBs  
Pace Project No.: 92212499

Sample: **DM-W-010** Lab ID: **92212499001** Collected: 08/07/14 11:00 Received: 08/07/14 14:30 Matrix: Wipe

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b> Analytical Method: EPA 8082 Preparation Method: EPA 3580 (Wipe)									
PCB-1016 (Aroclor 1016)	ND Total ug		1.0	1.0	1	08/07/14 17:24	08/08/14 10:28	12674-11-2	
PCB-1221 (Aroclor 1221)	ND Total ug		1.0	1.0	1	08/07/14 17:24	08/08/14 10:28	11104-28-2	
PCB-1232 (Aroclor 1232)	ND Total ug		1.0	1.0	1	08/07/14 17:24	08/08/14 10:28	11141-16-5	
PCB-1242 (Aroclor 1242)	ND Total ug		1.0	1.0	1	08/07/14 17:24	08/08/14 10:28	53469-21-9	
PCB-1248 (Aroclor 1248)	ND Total ug		1.0	1.0	1	08/07/14 17:24	08/08/14 10:28	12672-29-6	
PCB-1254 (Aroclor 1254)	ND Total ug		1.0	1.0	1	08/07/14 17:24	08/08/14 10:28	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>2.0</b> Total ug		1.0	1.0	1	08/07/14 17:24	08/08/14 10:28	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	129 %		70-130		1	08/07/14 17:24	08/08/14 10:28	2051-24-3	

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**ANALYTICAL RESULTS**

Project: Delta Mills PCBs  
Pace Project No.: 92212499

Sample: DM-W-011 Lab ID: 92212499002 Collected: 08/07/14 11:05 Received: 08/07/14 14:30 Matrix: Wipe

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8082 GCS PCB</b> Analytical Method: EPA 8082 Preparation Method: EPA 3580 (Wipe)									
PCB-1016 (Aroclor 1016)	ND Total ug		1.0	1.0	1	08/07/14 17:24	08/08/14 10:49	12674-11-2	
PCB-1221 (Aroclor 1221)	ND Total ug		1.0	1.0	1	08/07/14 17:24	08/08/14 10:49	11104-28-2	
PCB-1232 (Aroclor 1232)	ND Total ug		1.0	1.0	1	08/07/14 17:24	08/08/14 10:49	11141-16-5	
PCB-1242 (Aroclor 1242)	ND Total ug		1.0	1.0	1	08/07/14 17:24	08/08/14 10:49	53469-21-9	
PCB-1248 (Aroclor 1248)	ND Total ug		1.0	1.0	1	08/07/14 17:24	08/08/14 10:49	12672-29-6	
PCB-1254 (Aroclor 1254)	ND Total ug		1.0	1.0	1	08/07/14 17:24	08/08/14 10:49	11097-69-1	
PCB-1260 (Aroclor 1260)	1.4 Total ug		1.0	1.0	1	08/07/14 17:24	08/08/14 10:49	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	110 %		70-130		1	08/07/14 17:24	08/08/14 10:49	2051-24-3	

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### ANALYTICAL RESULTS

Project: Delta Mills PCBs  
Pace Project No.: 92212499

Sample: DM-W-012 Lab ID: 92212499003 Collected: 08/07/14 11:15 Received: 08/07/14 14:30 Matrix: Wipe

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8082 GCS PCB</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3580 (Wipe)									
PCB-1016 (Aroclor 1016)	ND Total ug	ug	1.0	1.0	1	08/07/14 17:24	08/08/14 11:09	12674-11-2	
PCB-1221 (Aroclor 1221)	ND Total ug	ug	1.0	1.0	1	08/07/14 17:24	08/08/14 11:09	11104-28-2	
PCB-1232 (Aroclor 1232)	ND Total ug	ug	1.0	1.0	1	08/07/14 17:24	08/08/14 11:09	11141-16-5	
PCB-1242 (Aroclor 1242)	ND Total ug	ug	1.0	1.0	1	08/07/14 17:24	08/08/14 11:09	53469-21-9	
PCB-1248 (Aroclor 1248)	ND Total ug	ug	1.0	1.0	1	08/07/14 17:24	08/08/14 11:09	12672-29-6	
PCB-1254 (Aroclor 1254)	ND Total ug	ug	1.0	1.0	1	08/07/14 17:24	08/08/14 11:09	11097-69-1	
PCB-1260 (Aroclor 1260)	29.0 Total ug	ug	1.0	1.0	1	08/07/14 17:24	08/08/14 11:09	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	98 %	%	70-130		1	08/07/14 17:24	08/08/14 11:09	2051-24-3	

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## DATA VALIDATION CHECKLIST – STAGE 2A

(Page 1 of 3)

<b>Site Name</b>	Delta Mills	<b>Project No.</b>	103X9025144069
<b>Data Reviewer (signature and date)</b>	<i>Jessica A. Vickers</i> 09/17/2014	<b>Laboratory Report No.</b>	92212977
<b>Analyses</b>	Polychlorinated biphenyls (PCBs) – SW-846 Method 8082A		
<b>Samples</b>	DM-S-001, DM-S-002, DM-S-003, and DM-S-004		
<b>Samples</b>	DM-S-003 and DM-S-003-DUP		

This checklist summarizes the Stage 2A validation performed on the subject laboratory report, in accordance with the Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the EPA *Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Superfund Organic Methods Data Review* (June 2008) data validation guidance document, as well as the above referenced method.

**Data completeness:**

Within Criteria	Exceedance/Notes
X	

**Sample preservation, receipt, and holding times:**

Within Criteria	Exceedance/Notes
X	

**Method blanks:**

Within Criteria	Exceedance/Notes
X	

**Field blanks:**

Within Criteria	Exceedance/Notes
	None performed for this report.



## DATA VALIDATION CHECKLIST – STAGE 2A

(Page 2 of 3)

**System monitoring compounds (surrogates):**

Within Criteria	Exceedance/Notes
	No %R for surrogates due to dilutions – no action per NFG

**MS/MSD:**

Within Criteria	Exceedance/Notes
	%Rs not calculated for PCB-1260 because the sample concentration was greater than four times spike amount – no action per NFG.

**Field Duplicates:**

Within Criteria	Exceedance/Notes
	RPD = 61.1 percent for PCB-1260 – flag “J” for DM-S-003 and DM-S-003-DUP

**LCSs/LCSDs:**

Within Criteria	Exceedance/Notes
X	

**Sample dilutions:**

Within Criteria	Exceedance/Notes
	10x dilution for DM-S-003 and 5x dilutions for remaining samples – elevated RLs for non-detects

**Re-extraction and reanalysis:**

Within Criteria	Exceedance/Notes
	None performed for this report.



## DATA VALIDATION CHECKLIST – STAGE 2A

(Page 3 of 3)

**MDLs/RLs:**

Within Criteria	Exceedance/Notes
	Laboratory flagged results between MDL and RL “J.”

**Overall Qualifications:**

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

### ANALYTICAL RESULTS

Project: Delta Mills  
Pace Project No.: 92212977

Sample: DM-S-001 Lab ID: 92212977001 Collected: 08/12/14 09:50 Received: 08/12/14 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	177	80.2	5	08/12/14 16:02	08/13/14 09:29	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	177	80.2	5	08/12/14 16:02	08/13/14 09:29	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	177	80.2	5	08/12/14 16:02	08/13/14 09:29	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	177	80.2	5	08/12/14 16:02	08/13/14 09:29	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	177	80.2	5	08/12/14 16:02	08/13/14 09:29	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	177	80.2	5	08/12/14 16:02	08/13/14 09:29	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	177	80.2	5	08/12/14 16:02	08/13/14 09:29	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		5	08/12/14 16:02	08/13/14 09:29	2051-24-3	D3,S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	6.5 %		0.10	0.10	1		08/13/14 14:43		

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**ANALYTICAL RESULTS**

Project: Delta Mills  
Pace Project No.: 92212977

Sample: DM-S-002 Lab ID: 92212977002 Collected: 08/12/14 10:05 Received: 08/12/14 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	184	83.6	5	08/12/14 16:02	08/13/14 09:50	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	184	83.6	5	08/12/14 16:02	08/13/14 09:50	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	184	83.6	5	08/12/14 16:02	08/13/14 09:50	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	184	83.6	5	08/12/14 16:02	08/13/14 09:50	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	184	83.6	5	08/12/14 16:02	08/13/14 09:50	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	184	83.6	5	08/12/14 16:02	08/13/14 09:50	11097-69-1	
PCB-1260 (Aroclor 1260)	98.2	ug/kg	184	83.6	5	08/12/14 16:02	08/13/14 09:50	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		5	08/12/14 16:02	08/13/14 09:50	2051-24-3	D3,S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	10.3	%	0.10	0.10	1		08/13/14 14:43		

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### ANALYTICAL RESULTS

Project: Delta Mills  
Pace Project No.: 92212977

Sample: DM-S-003 Lab ID: 92212977003 Collected: 08/12/14 10:15 Received: 08/12/14 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	370	168	10	08/12/14 16:02	08/13/14 12:55	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	370	168	10	08/12/14 16:02	08/13/14 12:55	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	370	168	10	08/12/14 16:02	08/13/14 12:55	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	370	168	10	08/12/14 16:02	08/13/14 12:55	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	370	168	10	08/12/14 16:02	08/13/14 12:55	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	370	168	10	08/12/14 16:02	08/13/14 12:55	11097-69-1	
PCB-1260 (Aroclor 1260)	2950	ug/kg	370	168	10	08/12/14 16:02	08/13/14 12:55	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		10	08/12/14 16:02	08/13/14 12:55	2051-24-3	D3,S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	10.7 %		0.10	0.10	1		08/13/14 14:44		

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09/17/14

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### ANALYTICAL RESULTS

Project: Delta Mills  
Pace Project No.: 92212977

Sample: DM-S-003-DUP Lab ID: 92212977004 Collected: 08/12/14 10:16 Received: 08/12/14 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	186	84.5	5	08/12/14 16:02	08/13/14 10:31	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	186	84.5	5	08/12/14 16:02	08/13/14 10:31	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	186	84.5	5	08/12/14 16:02	08/13/14 10:31	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	186	84.5	5	08/12/14 16:02	08/13/14 10:31	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	186	84.5	5	08/12/14 16:02	08/13/14 10:31	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	186	84.5	5	08/12/14 16:02	08/13/14 10:31	11097-69-1	
PCB-1260 (Aroclor 1260)	1570	ug/kg	186	84.5	5	08/12/14 16:02	08/13/14 10:31	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		5	08/12/14 16:02	08/13/14 10:31	2051-24-3	D3,S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-07									
Percent Moisture	11.3 %		0.10	0.10	1		08/13/14 14:44		

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09/17/14

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### ANALYTICAL RESULTS

Project: Delta Mills  
Pace Project No.: 92212977

Sample: DM-S-004 Lab ID: 92212977005 Collected: 08/12/14 10:25 Received: 08/12/14 14:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	196	88.9	5	08/12/14 16:02	08/13/14 10:51	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	196	88.9	5	08/12/14 16:02	08/13/14 10:51	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	196	88.9	5	08/12/14 16:02	08/13/14 10:51	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	196	88.9	5	08/12/14 16:02	08/13/14 10:51	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	196	88.9	5	08/12/14 16:02	08/13/14 10:51	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	196	88.9	5	08/12/14 16:02	08/13/14 10:51	11097-69-1	
PCB-1260 (Aroclor 1260)	259	ug/kg	196	88.9	5	08/12/14 16:02	08/13/14 10:51	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		5	08/12/14 16:02	08/13/14 10:51	2051-24-3	D3,S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	15.6 %		0.10	0.10	1		08/13/14 14:44		

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## DATA VALIDATION CHECKLIST – STAGE 2A

(Page 1 of 3)

<b>Site Name</b>	Delta Mills	<b>Project No.</b>	103X9025144069
<b>Data Reviewer (signature and date)</b>	<i>Jessica A. Vickers</i> 09/18/2014	<b>Laboratory Report No.</b>	92213621
<b>Analyses</b>	Polychlorinated biphenyls (PCBs) – SW-846 Method 8082A		
<b>Samples</b>	DM-O-001, DM-S-005, DM-S-007, DM-S-014, DM-S-015, DM-S-017, DM-S-018, DM-S-019, DM-W-013, DM-W-013, and DM-W-015		

This checklist summarizes the Stage 2A validation performed on the subject laboratory report, in accordance with the Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the EPA *Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Superfund Organic Methods Data Review* (June 2008) data validation guidance document, as well as the above referenced method.

**Data completeness:**

Within Criteria	Exceedance/Notes
X	

**Sample preservation, receipt, and holding times:**

Within Criteria	Exceedance/Notes
X	

**Method blanks:**

Within Criteria	Exceedance/Notes
X	

**Field blanks:**

Within Criteria	Exceedance/Notes
	None performed for this report.



## DATA VALIDATION CHECKLIST – STAGE 2A

(Page 2 of 3)

### System monitoring compounds (surrogates):

Within Criteria	Exceedance/Notes
	No %R for surrogates due to dilutions for samples DM-O-001, DM-S-005, DM-S-014, DM-S-015, DM-S-017, and DM-S-018 – no action per NFG

### MS/MSD:

Within Criteria	Exceedance/Notes
	None performed for this report.

### Field Duplicates:

Within Criteria	Exceedance/Notes
	None performed for this report.

### LCSs/LCSDs:

Within Criteria	Exceedance/Notes
X	

### Sample dilutions:

Within Criteria	Exceedance/Notes
	5x dilution for DM-S-005 and 50x dilutions for DM-O-001, DM-S-014, DM-S-015, DM-S-017, and DM-S-018 – elevated RLs for non-detects

### Re-extraction and reanalysis:

Within Criteria	Exceedance/Notes
	None performed for this report.



## DATA VALIDATION CHECKLIST – STAGE 2A

(Page 3 of 3)

**MDLs/RLs:**

Within Criteria	Exceedance/Notes
	Laboratory flagged results between MDL and RL “J.”

**Overall Qualifications:**

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

**ANALYTICAL RESULTS**

Project: Delta Mills  
Pace Project No.: 92213621

Sample: DM-O-001 Lab ID: 92213621001 Collected: 08/13/14 09:20 Received: 08/15/14 14:17 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	10700	4840	50	08/15/14 15:02	08/18/14 10:19	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	10700	4840	50	08/15/14 15:02	08/18/14 10:19	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	10700	4840	50	08/15/14 15:02	08/18/14 10:19	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	10700	4840	50	08/15/14 15:02	08/18/14 10:19	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	10700	4840	50	08/15/14 15:02	08/18/14 10:19	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	10700	4840	50	08/15/14 15:02	08/18/14 10:19	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	10700	4840	50	08/15/14 15:02	08/18/14 10:19	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		50	08/15/14 15:02	08/18/14 10:19	2051-24-3	D3,S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	64.3 %		0.10	0.10	1		08/18/14 14:54		

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**ANALYTICAL RESULTS**

Project: Delta Mills  
Pace Project No.: 92213621

Sample: DM-S-005 Lab ID: 92213621002 Collected: 08/14/14 11:15 Received: 08/15/14 14:17 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	177	80.3	5	08/15/14 15:02	08/18/14 10:39	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	177	80.3	5	08/15/14 15:02	08/18/14 10:39	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	177	80.3	5	08/15/14 15:02	08/18/14 10:39	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	177	80.3	5	08/15/14 15:02	08/18/14 10:39	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	177	80.3	5	08/15/14 15:02	08/18/14 10:39	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	177	80.3	5	08/15/14 15:02	08/18/14 10:39	11097-69-1	
PCB-1260 (Aroclor 1260)	319	ug/kg	177	80.3	5	08/15/14 15:02	08/18/14 10:39	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		5	08/15/14 15:02	08/18/14 10:39	2051-24-3	S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	6.6 %		0.10	0.10	1		08/18/14 14:54		

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### ANALYTICAL RESULTS

Project: Delta Mills  
Pace Project No.: 92213621

Sample: DM-S-007 Lab ID: 92213621003 Collected: 08/14/14 11:25 Received: 08/15/14 14:17 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	35.6	16.2	1	08/15/14 15:02	08/18/14 09:37	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	35.6	16.2	1	08/15/14 15:02	08/18/14 09:37	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	35.6	16.2	1	08/15/14 15:02	08/18/14 09:37	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	35.6	16.2	1	08/15/14 15:02	08/18/14 09:37	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	35.6	16.2	1	08/15/14 15:02	08/18/14 09:37	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	35.6	16.2	1	08/15/14 15:02	08/18/14 09:37	11097-69-1	
PCB-1260 (Aroclor 1260)	523	ug/kg	35.6	16.2	1	08/15/14 15:02	08/18/14 09:37	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	62 %		10-128		1	08/15/14 15:02	08/18/14 09:37	2051-24-3	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	7.4 %		0.10	0.10	1		08/18/14 14:55		

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### ANALYTICAL RESULTS

Project: Delta Mills  
Pace Project No.: 92213621

Sample: DM-S-014 Lab ID: 92213621004 Collected: 08/15/14 11:30 Received: 08/15/14 14:17 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	1670	759	50	08/15/14 15:02	08/18/14 11:00	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	1670	759	50	08/15/14 15:02	08/18/14 11:00	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	1670	759	50	08/15/14 15:02	08/18/14 11:00	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	1670	759	50	08/15/14 15:02	08/18/14 11:00	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	1670	759	50	08/15/14 15:02	08/18/14 11:00	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	1670	759	50	08/15/14 15:02	08/18/14 11:00	11097-69-1	
PCB-1260 (Aroclor 1260)	13700	ug/kg	1670	759	50	08/15/14 15:02	08/18/14 11:00	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		50	08/15/14 15:02	08/18/14 11:00	2051-24-3	S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	1.2 %		0.10	0.10	1		08/18/14 14:57		

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09/18/14

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**ANALYTICAL RESULTS**

Project: Delta Mills  
Pace Project No.: 92213621

Sample: DM-S-015 Lab ID: 92213621005 Collected: 08/15/14 11:40 Received: 08/15/14 14:17 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	1670	757	50	08/15/14 15:02	08/18/14 11:20	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	1670	757	50	08/15/14 15:02	08/18/14 11:20	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	1670	757	50	08/15/14 15:02	08/18/14 11:20	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	1670	757	50	08/15/14 15:02	08/18/14 11:20	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	1670	757	50	08/15/14 15:02	08/18/14 11:20	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	1670	757	50	08/15/14 15:02	08/18/14 11:20	11097-69-1	
PCB-1260 (Aroclor 1260)	8660	ug/kg	1670	757	50	08/15/14 15:02	08/18/14 11:20	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		50	08/15/14 15:02	08/18/14 11:20	2051-24-3	S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	0.93 %		0.10	0.10	1		08/18/14 15:04		

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**ANALYTICAL RESULTS**

Project: Delta Mills  
Pace Project No.: 92213621

Sample: DM-S-017 Lab ID: 92213621006 Collected: 08/14/14 16:15 Received: 08/15/14 14:17 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	1970	894	50	08/15/14 15:02	08/18/14 11:41	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	1970	894	50	08/15/14 15:02	08/18/14 11:41	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	1970	894	50	08/15/14 15:02	08/18/14 11:41	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	1970	894	50	08/15/14 15:02	08/18/14 11:41	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	1970	894	50	08/15/14 15:02	08/18/14 11:41	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	1970	894	50	08/15/14 15:02	08/18/14 11:41	11097-69-1	
PCB-1260 (Aroclor 1260)	1000	ug/kg	1970	894	50	08/15/14 15:02	08/18/14 11:41	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		50	08/15/14 15:02	08/18/14 11:41	2051-24-3	D3,S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	16.1 %		0.10	0.10	1		08/18/14 15:04		

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09/18/14

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### ANALYTICAL RESULTS

Project: Delta Mills  
Pace Project No.: 92213621

Sample: DM-S-018 Lab ID: 92213621007 Collected: 08/14/14 16:05 Received: 08/15/14 14:17 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	1870	848	50	08/15/14 15:02	08/18/14 12:01	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	1870	848	50	08/15/14 15:02	08/18/14 12:01	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	1870	848	50	08/15/14 15:02	08/18/14 12:01	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	1870	848	50	08/15/14 15:02	08/18/14 12:01	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	1870	848	50	08/15/14 15:02	08/18/14 12:01	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	1870	848	50	08/15/14 15:02	08/18/14 12:01	11097-69-1	
PCB-1260 (Aroclor 1260)	5440	ug/kg	1870	848	50	08/15/14 15:02	08/18/14 12:01	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		50	08/15/14 15:02	08/18/14 12:01	2051-24-3	S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	11.6 %		0.10	0.10	1		08/18/14 15:05		

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**ANALYTICAL RESULTS**

Project: Delta Mills  
Pace Project No.: 92213621

Sample: DM-S-019 Lab ID: 92213621008 Collected: 08/14/14 15:10 Received: 08/15/14 14:17 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	33.1	15.1	1	08/15/14 15:02	08/18/14 09:58	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	33.1	15.1	1	08/15/14 15:02	08/18/14 09:58	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	33.1	15.1	1	08/15/14 15:02	08/18/14 09:58	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	33.1	15.1	1	08/15/14 15:02	08/18/14 09:58	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	33.1	15.1	1	08/15/14 15:02	08/18/14 09:58	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	33.1	15.1	1	08/15/14 15:02	08/18/14 09:58	11097-69-1	
PCB-1260 (Aroclor 1260)	126	ug/kg	33.1	15.1	1	08/15/14 15:02	08/18/14 09:58	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	59 %		10-128		1	08/15/14 15:02	08/18/14 09:58	2051-24-3	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	0.39 %		0.10	0.10	1		08/18/14 15:05		

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### ANALYTICAL RESULTS

Project: Delta Mills  
Pace Project No.: 92213621

Sample: DM-W-013		Lab ID: 92213621009		Collected: 08/13/14 08:20		Received: 08/15/14 14:17		Matrix: Wipe		
Parameters	Results	Units	Report		MDL	DF	Prepared	Analyzed	CAS No.	Qual
			Limit							
<b>8082 GCS PCB</b>										
Analytical Method: EPA 8082 Preparation Method: EPA 3580 (Wipe)										
PCB-1016 (Aroclor 1016)	ND Total ug		1.0	1.0	1	08/15/14 16:34	08/15/14 23:21	12674-11-2		
PCB-1221 (Aroclor 1221)	ND Total ug		1.0	1.0	1	08/15/14 16:34	08/15/14 23:21	11104-28-2		
PCB-1232 (Aroclor 1232)	ND Total ug		1.0	1.0	1	08/15/14 16:34	08/15/14 23:21	11141-16-5		
PCB-1242 (Aroclor 1242)	ND Total ug		1.0	1.0	1	08/15/14 16:34	08/15/14 23:21	53469-21-9		
PCB-1248 (Aroclor 1248)	ND Total ug		1.0	1.0	1	08/15/14 16:34	08/15/14 23:21	12672-29-6		
PCB-1254 (Aroclor 1254)	ND Total ug		1.0	1.0	1	08/15/14 16:34	08/15/14 23:21	11097-69-1		
PCB-1260 (Aroclor 1260)	ND Total ug		1.0	1.0	1	08/15/14 16:34	08/15/14 23:21	11096-82-5		
<b>Surrogates</b>										
Decachlorobiphenyl (S)	102 %		70-130		1	08/15/14 16:34	08/15/14 23:21	2051-24-3		

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### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Delta Mills  
Pace Project No.: 92213621

Sample: DM-W-014 Lab ID: 92213621010 Collected: 08/15/14 11:00 Received: 08/15/14 14:17 Matrix: Wipe

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8082 GCS PCB</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3580 (Wipe)									
PCB-1016 (Aroclor 1016)	ND Total ug	u	1.0	1.0	1	08/15/14 16:34	08/15/14 23:42	12674-11-2	
PCB-1221 (Aroclor 1221)	ND Total ug	u	1.0	1.0	1	08/15/14 16:34	08/15/14 23:42	11104-28-2	
PCB-1232 (Aroclor 1232)	ND Total ug	u	1.0	1.0	1	08/15/14 16:34	08/15/14 23:42	11141-16-5	
PCB-1242 (Aroclor 1242)	ND Total ug	u	1.0	1.0	1	08/15/14 16:34	08/15/14 23:42	53469-21-9	
PCB-1248 (Aroclor 1248)	ND Total ug	u	1.0	1.0	1	08/15/14 16:34	08/15/14 23:42	12672-29-6	
PCB-1254 (Aroclor 1254)	ND Total ug	u	1.0	1.0	1	08/15/14 16:34	08/15/14 23:42	11097-69-1	
PCB-1260 (Aroclor 1260)	ND Total ug	u	1.0	1.0	1	08/15/14 16:34	08/15/14 23:42	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	112 %		70-130		1	08/15/14 16:34	08/15/14 23:42	2051-24-3	

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### ANALYTICAL RESULTS

Project: Delta Mills  
Pace Project No.: 92213621

Sample: DM-W-015      Lab ID: 92213621011      Collected: 08/15/14 11:15      Received: 08/15/14 14:17      Matrix: Wipe

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8082 GCS PCB</b>									
Analytical Method: EPA 8082      Preparation Method: EPA 3580 (Wipe)									
PCB-1016 (Aroclor 1016)	ND Total ug	↓	1.0	1.0	1	08/15/14 16:34	08/16/14 00:02	12674-11-2	
PCB-1221 (Aroclor 1221)	ND Total ug		1.0	1.0	1	08/15/14 16:34	08/16/14 00:02	11104-28-2	
PCB-1232 (Aroclor 1232)	ND Total ug		1.0	1.0	1	08/15/14 16:34	08/16/14 00:02	11141-16-5	
PCB-1242 (Aroclor 1242)	ND Total ug		1.0	1.0	1	08/15/14 16:34	08/16/14 00:02	53469-21-9	
PCB-1248 (Aroclor 1248)	ND Total ug		1.0	1.0	1	08/15/14 16:34	08/16/14 00:02	12672-29-6	
PCB-1254 (Aroclor 1254)	ND Total ug		1.0	1.0	1	08/15/14 16:34	08/16/14 00:02	11097-69-1	
PCB-1260 (Aroclor 1260)	ND Total ug		1.0	1.0	1	08/15/14 16:34	08/16/14 00:02	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	98 %		70-130		1	08/15/14 16:34	08/16/14 00:02	2051-24-3	

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## DATA VALIDATION CHECKLIST – STAGE 2A

(Page 1 of 3)

<b>Site Name</b>	Delta Mills	<b>Project No.</b>	103X9025144069
<b>Data Reviewer (signature and date)</b>	<i>Jessica A. Vickers</i> 09/18/2014	<b>Laboratory Report No.</b>	92213746
<b>Analyses</b>	Polychlorinated biphenyls (PCBs) – SW-846 Method 8082A		
<b>Samples</b>	DM-S-008, DM-S-009, DM-S-009-G, DM-S-010-PH-G, DM-S-011, DM-S-011-G, and DM-S-016		

This checklist summarizes the Stage 2A validation performed on the subject laboratory report, in accordance with the Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the EPA *Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Superfund Organic Methods Data Review* (June 2008) data validation guidance document, as well as the above referenced method.

**Data completeness:**

Within Criteria	Exceedance/Notes
X	

**Sample preservation, receipt, and holding times:**

Within Criteria	Exceedance/Notes
X	

**Method blanks:**

Within Criteria	Exceedance/Notes
X	

**Field blanks:**

Within Criteria	Exceedance/Notes
	None performed for this report.



## DATA VALIDATION CHECKLIST – STAGE 2A

(Page 2 of 3)

### System monitoring compounds (surrogates):

Within Criteria	Exceedance/Notes
	No %R for surrogates due to dilutions – no action per NFG

### MS/MSD:

Within Criteria	Exceedance/Notes
	None performed for this report.

### Field Duplicates:

Within Criteria	Exceedance/Notes
	None performed for this report.

### LCSs/LCSDs:

Within Criteria	Exceedance/Notes
X	

### Sample dilutions:

Within Criteria	Exceedance/Notes
	10x dilutions for DM-S-009, DM-S-009-G, DM-S-011, DM-S-011-G, and DM-S-016; 40x dilution for DM-S-008; and 50x dilution for DM-S-010-PH-G – elevated RLs for non-detects

### Re-extraction and reanalysis:

Within Criteria	Exceedance/Notes
	None performed for this report.



## DATA VALIDATION CHECKLIST – STAGE 2A

(Page 3 of 3)

**MDLs/RLs:**

Within Criteria	Exceedance/Notes
	Laboratory flagged results between MDL and RL “J.”

**Overall Qualifications:**

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

**ANALYTICAL RESULTS**

Project: Delta Mills 08/16/14  
Pace Project No.: 92213746

Sample: DM-S-016 Lab ID: 92213746002 Collected: 08/16/14 09:40 Received: 08/18/14 14:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	375	170	10	08/19/14 08:34	08/19/14 12:30	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	375	170	10	08/19/14 08:34	08/19/14 12:30	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	375	170	10	08/19/14 08:34	08/19/14 12:30	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	375	170	10	08/19/14 08:34	08/19/14 12:30	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	375	170	10	08/19/14 08:34	08/19/14 12:30	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	375	170	10	08/19/14 08:34	08/19/14 12:30	11097-69-1	
PCB-1260 (Aroclor 1260)	414	ug/kg	375	170	10	08/19/14 08:34	08/19/14 12:30	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		10	08/19/14 08:34	08/19/14 12:30	2051-24-3	S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	11.9 %		0.10	0.10	1		08/19/14 14:30		

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### ANALYTICAL RESULTS

Project: Delta Mills 08/16/14  
Pace Project No.: 92213746

Sample: DM-S-008 Lab ID: 92213746003 Collected: 08/16/14 11:10 Received: 08/18/14 14:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	1370	623	40	08/19/14 08:34	08/19/14 15:35	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	1370	623	40	08/19/14 08:34	08/19/14 15:35	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	1370	623	40	08/19/14 08:34	08/19/14 15:35	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	1370	623	40	08/19/14 08:34	08/19/14 15:35	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	1370	623	40	08/19/14 08:34	08/19/14 15:35	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	1370	623	40	08/19/14 08:34	08/19/14 15:35	11097-69-1	
PCB-1260 (Aroclor 1260)	11200	ug/kg	1370	623	40	08/19/14 08:34	08/19/14 15:35	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		40	08/19/14 08:34	08/19/14 15:35	2051-24-3	S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	3.8 %		0.10	0.10	1		08/19/14 14:31		

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### ANALYTICAL RESULTS

Project: Delta Mills 08/16/14  
Pace Project No.: 92213746

Sample: DM-S-009 Lab ID: 92213746004 Collected: 08/16/14 11:20 Received: 08/18/14 14:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	359	163	10	08/19/14 08:34	08/19/14 13:11	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	359	163	10	08/19/14 08:34	08/19/14 13:11	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	359	163	10	08/19/14 08:34	08/19/14 13:11	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	359	163	10	08/19/14 08:34	08/19/14 13:11	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	359	163	10	08/19/14 08:34	08/19/14 13:11	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	359	163	10	08/19/14 08:34	08/19/14 13:11	11097-69-1	
PCB-1260 (Aroclor 1260)	3890	ug/kg	359	163	10	08/19/14 08:34	08/19/14 13:11	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		10	08/19/14 08:34	08/19/14 13:11	2051-24-3	S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	8.0 %		0.10	0.10	1		08/19/14 14:31		

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### ANALYTICAL RESULTS

Project: Delta Mills 08/16/14  
Pace Project No.: 92213746

Sample: DM-S-009-G Lab ID: 92213746005 Collected: 08/16/14 11:30 Received: 08/18/14 14:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	368	167	10	08/19/14 08:34	08/19/14 13:32	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	368	167	10	08/19/14 08:34	08/19/14 13:32	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	368	167	10	08/19/14 08:34	08/19/14 13:32	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	368	167	10	08/19/14 08:34	08/19/14 13:32	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	368	167	10	08/19/14 08:34	08/19/14 13:32	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	368	167	10	08/19/14 08:34	08/19/14 13:32	11097-69-1	
PCB-1260 (Aroclor 1260)	1200	ug/kg	368	167	10	08/19/14 08:34	08/19/14 13:32	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		10	08/19/14 08:34	08/19/14 13:32	2051-24-3	S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	10.3 %		0.10	0.10	1		08/19/14 14:31		

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### ANALYTICAL RESULTS

Project: Delta Mills 08/16/14  
Pace Project No.: 92213746

Sample: DM-S-010-PH-G Lab ID: 92213746001 Collected: 08/16/14 07:30 Received: 08/18/14 14:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	1910	868	50	08/19/14 08:34	08/19/14 12:09	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	1910	868	50	08/19/14 08:34	08/19/14 12:09	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	1910	868	50	08/19/14 08:34	08/19/14 12:09	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	1910	868	50	08/19/14 08:34	08/19/14 12:09	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	1910	868	50	08/19/14 08:34	08/19/14 12:09	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	1910	868	50	08/19/14 08:34	08/19/14 12:09	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	1910	868	50	08/19/14 08:34	08/19/14 12:09	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		50	08/19/14 08:34	08/19/14 12:09	2051-24-3	D3,S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	13.6 %		0.10	0.10	1		08/19/14 14:30		

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### ANALYTICAL RESULTS

Project: Delta Mills 08/16/14  
Pace Project No.: 92213746

Sample: DM-S-011 Lab ID: 92213746006 Collected: 08/16/14 11:25 Received: 08/18/14 14:10 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	410	187	10	08/19/14 08:34	08/19/14 13:52	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	410	187	10	08/19/14 08:34	08/19/14 13:52	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	410	187	10	08/19/14 08:34	08/19/14 13:52	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	410	187	10	08/19/14 08:34	08/19/14 13:52	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	410	187	10	08/19/14 08:34	08/19/14 13:52	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	410	187	10	08/19/14 08:34	08/19/14 13:52	11097-69-1	
PCB-1260 (Aroclor 1260)	4080	ug/kg	410	187	10	08/19/14 08:34	08/19/14 13:52	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		10	08/19/14 08:34	08/19/14 13:52	2051-24-3	S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	19.6 %		0.10	0.10	1		08/19/14 14:33		

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09/18/14

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### ANALYTICAL RESULTS

Project: Delta Mills 08/16/14  
Pace Project No.: 92213746

Sample: DM-S-011-G Lab ID: 92213746007 Collected: 08/16/14 11:40 Received: 08/18/14 14:10 Matrix: Solid  
Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
8082 GCS PCB SC									
PCB-1016 (Aroclor 1016)	ND	ug/kg	358	163	10	08/19/14 08:34	08/19/14 14:13	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	358	163	10	08/19/14 08:34	08/19/14 14:13	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	358	163	10	08/19/14 08:34	08/19/14 14:13	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	358	163	10	08/19/14 08:34	08/19/14 14:13	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	358	163	10	08/19/14 08:34	08/19/14 14:13	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	358	163	10	08/19/14 08:34	08/19/14 14:13	11097-69-1	
PCB-1260 (Aroclor 1260)	165	ug/kg	358	163	10	08/19/14 08:34	08/19/14 14:13	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		10	08/19/14 08:34	08/19/14 14:13	2051-24-3	D3,S4
Analytical Method: ASTM D2974-87									
<b>Percent Moisture</b>									
Percent Moisture	7.9 %		0.10	0.10	1		08/19/14 14:33		

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## DATA VALIDATION CHECKLIST – STAGE 2A

(Page 1 of 3)

<b>Site Name</b>	Delta Mills	<b>Project No.</b>	103X9025144069
<b>Data Reviewer (signature and date)</b>	<i>Jessica A. Vickers</i> 09/18/2014	<b>Laboratory Report No.</b>	92214063
<b>Analyses</b>	Polychlorinated biphenyls (PCBs) – SW-846 Method 8082A		
<b>Samples</b>	DM-S-001-R1, DM-S-010, DM-S-012, DM-S-013, DM-S-014-R1, DM-S-015-R1, DM-S-18-R1, DM-S-020, and DM-S-021		

This checklist summarizes the Stage 2A validation performed on the subject laboratory report, in accordance with the Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the EPA *Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Superfund Organic Methods Data Review* (June 2008) data validation guidance document, as well as the above referenced method.

**Data completeness:**

Within Criteria	Exceedance/Notes
X	

**Sample preservation, receipt, and holding times:**

Within Criteria	Exceedance/Notes
X	

**Method blanks:**

Within Criteria	Exceedance/Notes
X	

**Field blanks:**

Within Criteria	Exceedance/Notes
	None performed for this report.



## DATA VALIDATION CHECKLIST – STAGE 2A

(Page 2 of 3)

### System monitoring compounds (surrogates):

Within Criteria	Exceedance/Notes
	No %R for surrogates for all samples except DM-S-001-R1 and DM-S-020 due to dilutions – no action per NFG

### MS/MSD:

Within Criteria	Exceedance/Notes
	None performed for this report.

### Field Duplicates:

Within Criteria	Exceedance/Notes
	None performed for this report.

### LCSs/LCSDs:

Within Criteria	Exceedance/Notes
X	

### Sample dilutions:

Within Criteria	Exceedance/Notes
	5x dilutions for DM-S-013, DM-S-014-R1, DM-S-18-R1, and DM-S-021; 10x dilution for DM-S-012; 20x dilution for DM-S-015-R1; and 25x dilution for DM-S-010 – elevated RLs for non-detects

### Re-extraction and reanalysis:

Within Criteria	Exceedance/Notes
	None performed for this report.



## DATA VALIDATION CHECKLIST – STAGE 2A

(Page 3 of 3)

**MDLs/RLs:**

Within Criteria	Exceedance/Notes
	Laboratory flagged results between MDL and RL “J.”

**Overall Qualifications:**

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

**ANALYTICAL RESULTS**

Project: DELTA MILLS  
Pace Project No.: 92214063

Sample: DM-S-001-R1 Lab ID: 92214063010 Collected: 08/20/14 08:30 Received: 08/20/14 11:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	35.8	16.3	1	08/20/14 13:15	08/21/14 12:12	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	35.8	16.3	1	08/20/14 13:15	08/21/14 12:12	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	35.8	16.3	1	08/20/14 13:15	08/21/14 12:12	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	35.8	16.3	1	08/20/14 13:15	08/21/14 12:12	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	35.8	16.3	1	08/20/14 13:15	08/21/14 12:12	12672-29-6	
PCB-1254 (Aroclor 1254)	31.2	ug/kg	35.8	16.3	1	08/20/14 13:15	08/21/14 12:12	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	35.8	16.3	1	08/20/14 13:15	08/21/14 12:12	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	60 %		10-128		1	08/20/14 13:15	08/21/14 12:12	2051-24-3	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	7.8 %		0.10	0.10	1		08/21/14 14:32		

*gaw*  
09/18/14

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### ANALYTICAL RESULTS

Project: DELTA MILLS  
Pace Project No.: 92214063

Sample: DM-S-010 Lab ID: 92214063001 Collected: 08/20/14 07:20 Received: 08/20/14 11:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	893	406	25	08/20/14 13:15	08/21/14 13:15	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	893	406	25	08/20/14 13:15	08/21/14 13:15	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	893	406	25	08/20/14 13:15	08/21/14 13:15	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	893	406	25	08/20/14 13:15	08/21/14 13:15	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	893	406	25	08/20/14 13:15	08/21/14 13:15	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	893	406	25	08/20/14 13:15	08/21/14 13:15	11097-69-1	
PCB-1260 (Aroclor 1260)	6160	ug/kg	893	406	25	08/20/14 13:15	08/21/14 13:15	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		25	08/20/14 13:15	08/21/14 13:15	2051-24-3	S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	7.6 %		0.10	0.10	1		08/21/14 14:35		

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### ANALYTICAL RESULTS

Project: DELTA MILLS  
Pace Project No.: 92214063

Sample: DM-S-012 Lab ID: 92214063002 Collected: 08/20/14 07:30 Received: 08/20/14 11:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	355	161	10	08/20/14 13:15	08/21/14 13:36	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	355	161	10	08/20/14 13:15	08/21/14 13:36	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	355	161	10	08/20/14 13:15	08/21/14 13:36	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	355	161	10	08/20/14 13:15	08/21/14 13:36	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	355	161	10	08/20/14 13:15	08/21/14 13:36	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	355	161	10	08/20/14 13:15	08/21/14 13:36	11097-69-1	
PCB-1260 (Aroclor 1260)	3890	ug/kg	355	161	10	08/20/14 13:15	08/21/14 13:36	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		10	08/20/14 13:15	08/21/14 13:36	2051-24-3	S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	7.1 %		0.10	0.10	1		08/21/14 14:36		

*gaw*  
09/18/14

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### ANALYTICAL RESULTS

Project: DELTA MILLS  
Pace Project No.: 92214063

Sample: DM-S-013 Lab ID: 92214063003 Collected: 08/20/14 07:35 Received: 08/20/14 11:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	178	80.7	5	08/20/14 13:15	08/21/14 09:48	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	178	80.7	5	08/20/14 13:15	08/21/14 09:48	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	178	80.7	5	08/20/14 13:15	08/21/14 09:48	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	178	80.7	5	08/20/14 13:15	08/21/14 09:48	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	178	80.7	5	08/20/14 13:15	08/21/14 09:48	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	178	80.7	5	08/20/14 13:15	08/21/14 09:48	11097-69-1	
PCB-1260 (Aroclor 1260)	2020	ug/kg	178	80.7	5	08/20/14 13:15	08/21/14 09:48	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		5	08/20/14 13:15	08/21/14 09:48	2051-24-3	S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	7.1 %		0.10	0.10	1		08/21/14 14:36		

*gaw*  
09/18/14

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**ANALYTICAL RESULTS**

Project: DELTA MILLS  
Pace Project No.: 92214063

Sample: DM-S-014-R1 Lab ID: 92214063004 Collected: 08/20/14 07:40 Received: 08/20/14 11:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	174	79.3	5	08/20/14 13:15	08/21/14 10:09	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	174	79.3	5	08/20/14 13:15	08/21/14 10:09	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	174	79.3	5	08/20/14 13:15	08/21/14 10:09	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	174	79.3	5	08/20/14 13:15	08/21/14 10:09	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	174	79.3	5	08/20/14 13:15	08/21/14 10:09	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	174	79.3	5	08/20/14 13:15	08/21/14 10:09	11097-69-1	
PCB-1260 (Aroclor 1260)	981	ug/kg	174	79.3	5	08/20/14 13:15	08/21/14 10:09	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		5	08/20/14 13:15	08/21/14 10:09	2051-24-3	S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	5.4 %		0.10	0.10	1		08/21/14 14:36		

*jaw*  
09/18/14

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### ANALYTICAL RESULTS

Project: DELTA MILLS

Pace Project No.: 92214063

Sample: DM-S-015-R1 Lab ID: 92214063005 Collected: 08/20/14 07:45 Received: 08/20/14 11:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	698	317	20	08/20/14 13:15	08/21/14 13:56	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	698	317	20	08/20/14 13:15	08/21/14 13:56	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	698	317	20	08/20/14 13:15	08/21/14 13:56	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	698	317	20	08/20/14 13:15	08/21/14 13:56	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	698	317	20	08/20/14 13:15	08/21/14 13:56	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	698	317	20	08/20/14 13:15	08/21/14 13:56	11097-69-1	
PCB-1260 (Aroclor 1260)	4130	ug/kg	698	317	20	08/20/14 13:15	08/21/14 13:56	11096-82-5	
<b>Surrogates</b>									
Dccachlorobiphenyl (S)	0 %		10-128		20	08/20/14 13:15	08/21/14 13:56	2051-24-3	S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	5.5 %		0.10	0.10	1		08/21/14 14:37		

*gaw*  
09/18/14

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### ANALYTICAL RESULTS

Project: DELTA MILLS

Pace Project No.: 92214063

Sample: DM-S-018-R1 Lab ID: 92214063007 Collected: 08/20/14 08:00 Received: 08/20/14 11:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	210	95.3	5	08/20/14 13:15	08/21/14 11:11	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	210	95.3	5	08/20/14 13:15	08/21/14 11:11	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	210	95.3	5	08/20/14 13:15	08/21/14 11:11	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	210	95.3	5	08/20/14 13:15	08/21/14 11:11	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	210	95.3	5	08/20/14 13:15	08/21/14 11:11	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	210	95.3	5	08/20/14 13:15	08/21/14 11:11	11097-69-1	
PCB-1260 (Aroclor 1260)	491	ug/kg	210	95.3	5	08/20/14 13:15	08/21/14 11:11	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		5	08/20/14 13:15	08/21/14 11:11	2051-24-3	S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	21.3 %		0.10	0.10	1		08/21/14 14:32		

*gaw*  
09/18/14

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### ANALYTICAL RESULTS

Project: DELTA MILLS  
Pace Project No.: 92214063

Sample: DM-S-020 Lab ID: 92214063008 Collected: 08/20/14 08:20 Received: 08/20/14 11:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	35.3	16.0	1	08/20/14 13:15	08/21/14 11:31	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	35.3	16.0	1	08/20/14 13:15	08/21/14 11:31	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	35.3	16.0	1	08/20/14 13:15	08/21/14 11:31	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	35.3	16.0	1	08/20/14 13:15	08/21/14 11:31	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	35.3	16.0	1	08/20/14 13:15	08/21/14 11:31	12672-29-6	
PCB-1254 (Aroclor 1254)	18.2	ug/kg	35.3	16.0	1	08/20/14 13:15	08/21/14 11:31	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	35.3	16.0	1	08/20/14 13:15	08/21/14 11:31	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	21 %		10-128		1	08/20/14 13:15	08/21/14 11:31	2051-24-3	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	6.4 %		0.10	0.10	1		08/21/14 14:32		

*Jaw*  
09/18/14

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### ANALYTICAL RESULTS

Project: DELTA MILLS

Pace Project No.: 92214063

Sample: DM-S-021 Lab ID: 92214063009 Collected: 08/20/14 08:40 Received: 08/20/14 11:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	177	80.6	5	08/20/14 13:15	08/21/14 11:52	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	177	80.6	5	08/20/14 13:15	08/21/14 11:52	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	177	80.6	5	08/20/14 13:15	08/21/14 11:52	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	177	80.6	5	08/20/14 13:15	08/21/14 11:52	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	177	80.6	5	08/20/14 13:15	08/21/14 11:52	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	177	80.6	5	08/20/14 13:15	08/21/14 11:52	11097-69-1	
PCB-1260 (Aroclor 1260)	94.2	ug/kg	177	80.6	5	08/20/14 13:15	08/21/14 11:52	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		5	08/20/14 13:15	08/21/14 11:52	2051-24-3	S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	7.0 %		0.10	0.10	1		08/21/14 14:32		

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09/18/14

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## DATA VALIDATION CHECKLIST – STAGE 2A

(Page 1 of 3)

<b>Site Name</b>	Delta Mills	<b>Project No.</b>	103X9025144069
<b>Data Reviewer (signature and date)</b>	<i>Jessica A. Vickers</i> 09/17/2014	<b>Laboratory Report No.</b>	92215094
<b>Analyses</b>	Polychlorinated biphenyls (PCBs) – SW-846 Method 8082A		
<b>Samples</b>	DM-S-008-R1, DM-S-009-R1, DM-S-011-R1, DM-S-012-R1, DM-S-013-R1, DM-S-017-R1, and DM-S-BACKFILL		
<b>Samples</b>	DM-S-011-R1 and DM-S-011-R1-DUP		

This checklist summarizes the Stage 2A validation performed on the subject laboratory report, in accordance with the Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the EPA *Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Superfund Organic Methods Data Review* (June 2008) data validation guidance document, as well as the above referenced method.

**Data completeness:**

Within Criteria	Exceedance/Notes
X	

**Sample preservation, receipt, and holding times:**

Within Criteria	Exceedance/Notes
X	

**Method blanks:**

Within Criteria	Exceedance/Notes
X	

**Field blanks:**

Within Criteria	Exceedance/Notes
	None performed for this report.



## DATA VALIDATION CHECKLIST – STAGE 2A

(Page 2 of 3)

### System monitoring compounds (surrogates):

Within Criteria	Exceedance/Notes
	No %R for surrogates for all samples except DM-S-BACKFILL due to dilutions – no action per NFG

### MS/MSD:

Within Criteria	Exceedance/Notes
X	

### Field Duplicates:

Within Criteria	Exceedance/Notes
X	

### LCSs/LCSDs:

Within Criteria	Exceedance/Notes
X	

### Sample dilutions:

Within Criteria	Exceedance/Notes
	10x dilution for all samples except DM-S-BACKFILL – elevated RLs for non-detects

### Re-extraction and reanalysis:

Within Criteria	Exceedance/Notes
	None performed for this report.



## DATA VALIDATION CHECKLIST – STAGE 2A

(Page 3 of 3)

**MDLs/RLs:**

Within Criteria	Exceedance/Notes
	Laboratory flagged results between MDL and RL “J.”

**Overall Qualifications:**

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

### ANALYTICAL RESULTS

Project: Delta Mills  
Pace Project No.: 92215094

Sample: DM-S-008-R1 Lab ID: 92215094001 Collected: 08/27/14 13:35 Received: 08/27/14 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
8082 GCS PCB SC									
PCB-1016 (Aroclor 1016)	ND	ug/kg	342	155	10	08/27/14 17:40	08/28/14 11:47	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	342	155	10	08/27/14 17:40	08/28/14 11:47	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	342	155	10	08/27/14 17:40	08/28/14 11:47	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	342	155	10	08/27/14 17:40	08/28/14 11:47	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	342	155	10	08/27/14 17:40	08/28/14 11:47	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	342	155	10	08/27/14 17:40	08/28/14 11:47	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	342	155	10	08/27/14 17:40	08/28/14 11:47	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		10	08/27/14 17:40	08/28/14 11:47	2051-24-3	D3.S4
Analytical Method: ASTM D2974-87									
<b>Percent Moisture</b>									
Percent Moisture	3.4 %		0.10	0.10	1		08/28/14 13:48		

*gaw*  
09/18/14

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Delta Mills  
Pace Project No.: 92215094

Sample: DM-S-009-R1 Lab ID: 92215094002 Collected: 08/27/14 13:45 Received: 08/27/14 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
8082 GCS PCB SC									
PCB-1016 (Aroclor 1016)	ND	ug/kg	351	159	10	08/27/14 17:40	08/28/14 12:08	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	351	159	10	08/27/14 17:40	08/28/14 12:08	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	351	159	10	08/27/14 17:40	08/28/14 12:08	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	351	159	10	08/27/14 17:40	08/28/14 12:08	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	351	159	10	08/27/14 17:40	08/28/14 12:08	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	351	159	10	08/27/14 17:40	08/28/14 12:08	11097-69-1	
PCB-1260 (Aroclor 1260)	423	ug/kg	351	159	10	08/27/14 17:40	08/28/14 12:08	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		10	08/27/14 17:40	08/28/14 12:08	2051-24-3	S4
Analytical Method: ASTM D2974-87									
<b>Percent Moisture</b>									
Percent Moisture	5.9 %		0.10	0.10	1		08/28/14 13:48		

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### ANALYTICAL RESULTS

Project: Delta Mills  
Pace Project No.: 92215094

Sample: DM-S-011-R1 Lab ID: 92215094003 Collected: 08/27/14 08:45 Received: 08/27/14 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
8082 GCS PCB SC									
PCB-1016 (Aroclor 1016)	ND	ug/kg	354	161	10	08/27/14 17:40	08/28/14 12:28	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	354	161	10	08/27/14 17:40	08/28/14 12:28	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	354	161	10	08/27/14 17:40	08/28/14 12:28	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	354	161	10	08/27/14 17:40	08/28/14 12:28	53469-21-9	
PCB-1248 (Aroclor 1248)	1560	ug/kg	354	161	10	08/27/14 17:40	08/28/14 12:28	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	354	161	10	08/27/14 17:40	08/28/14 12:28	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	354	161	10	08/27/14 17:40	08/28/14 12:28	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		10	08/27/14 17:40	08/28/14 12:28	2051-24-3	S4
Analytical Method: ASTM D2974-87									
<b>Percent Moisture</b>									
Percent Moisture	6.8 %		0.10	0.10	1		08/28/14 13:48		

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### ANALYTICAL RESULTS

Project: Delta Mills  
Pace Project No.: 92215094

Sample: DM-S-011-R1-DUP Lab ID: 92215094004 Collected: 08/27/14 08:50 Received: 08/27/14 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
8082 GCS PCB SC									
PCB-1016 (Aroclor 1016)	ND	ug/kg	354	161	10	08/27/14 17:40	08/28/14 12:49	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	354	161	10	08/27/14 17:40	08/28/14 12:49	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	354	161	10	08/27/14 17:40	08/28/14 12:49	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	354	161	10	08/27/14 17:40	08/28/14 12:49	53469-21-9	
PCB-1248 (Aroclor 1248)	1740	ug/kg	354	161	10	08/27/14 17:40	08/28/14 12:49	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	354	161	10	08/27/14 17:40	08/28/14 12:49	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	354	161	10	08/27/14 17:40	08/28/14 12:49	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		10	08/27/14 17:40	08/28/14 12:49	2051-24-3	S4
Analytical Method: ASTM D2974-87									
<b>Percent Moisture</b>									
Percent Moisture	6.7 %		0.10	0.10	1		08/28/14 13:48		

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### ANALYTICAL RESULTS

Project: Delta Mills  
Pace Project No.: 92215094

Sample: DM-S-012-R1 Lab ID: 92215094005 Collected: 08/27/14 09:25 Received: 08/27/14 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
8082 GCS PCB SC									
PCB-1016 (Aroclor 1016)	ND	ug/kg	350	159	10	08/27/14 17:40	08/28/14 13:10	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	350	159	10	08/27/14 17:40	08/28/14 13:10	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	350	159	10	08/27/14 17:40	08/28/14 13:10	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	350	159	10	08/27/14 17:40	08/28/14 13:10	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	350	159	10	08/27/14 17:40	08/28/14 13:10	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	350	159	10	08/27/14 17:40	08/28/14 13:10	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	350	159	10	08/27/14 17:40	08/28/14 13:10	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		10	08/27/14 17:40	08/28/14 13:10	2051-24-3	D3,S4
Analytical Method: ASTM D2974-87									
<b>Percent Moisture</b>									
Percent Moisture	5.8 %		0.10	0.10	1		08/28/14 13:49		

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09/18/14

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### ANALYTICAL RESULTS

Project: Delta Mills  
Pace Project No.: 92215094

Sample: DM-S-013-R1 Lab ID: 92215094006 Collected: 08/27/14 09:35 Received: 08/27/14 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	353	160	10	08/27/14 17:40	08/28/14 13:30	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	353	160	10	08/27/14 17:40	08/28/14 13:30	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	353	160	10	08/27/14 17:40	08/28/14 13:30	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	353	160	10	08/27/14 17:40	08/28/14 13:30	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	353	160	10	08/27/14 17:40	08/28/14 13:30	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	353	160	10	08/27/14 17:40	08/28/14 13:30	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	353	160	10	08/27/14 17:40	08/28/14 13:30	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		10	08/27/14 17:40	08/28/14 13:30	2051-24-3	D3,S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	6.5 %		0.10	0.10	1		08/28/14 13:49		

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### ANALYTICAL RESULTS

Project: Delta Mills  
Pace Project No.: 92215094

Sample: DM-S-017-R1 Lab ID: 92215094007 Collected: 08/27/14 10:20 Received: 08/27/14 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	345	157	10	08/27/14 17:40	08/28/14 13:51	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	345	157	10	08/27/14 17:40	08/28/14 13:51	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	345	157	10	08/27/14 17:40	08/28/14 13:51	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	345	157	10	08/27/14 17:40	08/28/14 13:51	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	345	157	10	08/27/14 17:40	08/28/14 13:51	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	345	157	10	08/27/14 17:40	08/28/14 13:51	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	345	157	10	08/27/14 17:40	08/28/14 13:51	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		10	08/27/14 17:40	08/28/14 13:51	2051-24-3	D3,S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	4.3 %		0.10	0.10	1		08/28/14 13:49		

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**ANALYTICAL RESULTS**

Project: Delta Mills  
Pace Project No.: 92215094

Sample: DM-S-BACKFILL Lab ID: 92215094008 Collected: 08/27/14 10:35 Received: 08/27/14 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
8082 GCS PCB SC									
PCB-1016 (Aroclor 1016)	ND	ug/kg	37.2	16.9	1	08/27/14 17:40	08/28/14 14:11	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	37.2	16.9	1	08/27/14 17:40	08/28/14 14:11	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	37.2	16.9	1	08/27/14 17:40	08/28/14 14:11	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	37.2	16.9	1	08/27/14 17:40	08/28/14 14:11	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	37.2	16.9	1	08/27/14 17:40	08/28/14 14:11	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	37.2	16.9	1	08/27/14 17:40	08/28/14 14:11	11097-89-1	
PCB-1260 (Aroclor 1260)	ND	ug/kg	37.2	16.9	1	08/27/14 17:40	08/28/14 14:11	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	63 %		10-128		1	08/27/14 17:40	08/28/14 14:11	2051-24-3	
Analytical Method: ASTM D2974-87									
<b>Percent Moisture</b>									
Percent Moisture	11.2 %		0.10	0.10	1		08/28/14 13:49		

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## DATA VALIDATION CHECKLIST – STAGE 2A

(Page 1 of 3)

<b>Site Name</b>	Delta Mills	<b>Project No.</b>	103X9025144069
<b>Data Reviewer (signature and date)</b>	<i>Jessica A. Vickers</i> 09/18/2014	<b>Laboratory Report No.</b>	92215328
<b>Analyses</b>	Polychlorinated biphenyls (PCBs) – SW-846 Method 8082A		
<b>Samples</b>	DM-S-006, DM-S-010-R1, and DM-S-022		

This checklist summarizes the Stage 2A validation performed on the subject laboratory report, in accordance with the Environmental Protection Agency (EPA) *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2009). Analytical data were evaluated in general accordance with the EPA *Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Superfund Organic Methods Data Review* (June 2008) data validation guidance document, as well as the above referenced method.

**Data completeness:**

Within Criteria	Exceedance/Notes
X	

**Sample preservation, receipt, and holding times:**

Within Criteria	Exceedance/Notes
X	

**Method blanks:**

Within Criteria	Exceedance/Notes
X	

**Field blanks:**

Within Criteria	Exceedance/Notes
	None performed for this report.



## DATA VALIDATION CHECKLIST – STAGE 2A

(Page 2 of 3)

**System monitoring compounds (surrogates):**

Within Criteria	Exceedance/Notes
	No %R for surrogates for DM-S-006 and DM-S-022 due to dilutions – no action per NFG

**MS/MSD:**

Within Criteria	Exceedance/Notes
	None performed for this report.

**Field Duplicates:**

Within Criteria	Exceedance/Notes
	None performed for this report.

**LCSs/LCSDs:**

Within Criteria	Exceedance/Notes
X	

**Sample dilutions:**

Within Criteria	Exceedance/Notes
	5x dilution for DM-S-022 and 20x dilution for DM-S-006 – elevated RLs for non-detects

**Re-extraction and reanalysis:**

Within Criteria	Exceedance/Notes
	None performed for this report.



## DATA VALIDATION CHECKLIST – STAGE 2A

(Page 3 of 3)

**MDLs/RLs:**

Within Criteria	Exceedance/Notes
X	

**Overall Qualifications:**

See results summary pages attached for changes to the laboratory qualifiers based upon this validation. The following is a list of qualifiers and definitions that may be used for the validation of this data package:

J	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.
J+	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased high.
J-	The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample and may be biased low.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated value is the approximate concentration of the analyte in the sample.
R	The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.
U	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit).
UJ	The analyte was analyzed for, but was not detected at or above the associated value (reporting limit), which is considered approximate due to deficiencies in one or more quality control criteria.

**ANALYTICAL RESULTS**

Project: Delta Mills  
Pace Project No.: 92215328

Sample: DM-S-008 Lab ID: 92215328001 Collected: 08/26/14 10:40 Received: 08/28/14 14:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	723	329	20	08/29/14 08:30	08/29/14 13:45	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	723	329	20	08/29/14 08:30	08/29/14 13:45	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	723	329	20	08/29/14 08:30	08/29/14 13:45	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	723	329	20	08/29/14 08:30	08/29/14 13:45	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	723	329	20	08/29/14 08:30	08/29/14 13:45	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	723	329	20	08/29/14 08:30	08/29/14 13:45	11097-69-1	
PCB-1260 (Aroclor 1260)	5220	ug/kg	723	329	20	08/29/14 08:30	08/29/14 13:45	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		20	08/29/14 08:30	08/29/14 13:45	2051-24-3	S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	8.7 %		0.10	0.10	1		08/29/14 14:28		

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### ANALYTICAL RESULTS

Project: Delta Mills  
Pace Project No.: 92215328

Sample: DM-S-010-R1 Lab ID: 92215328002 Collected: 08/28/14 10:50 Received: 08/28/14 14:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	35.2	16.0	1	08/29/14 08:30	08/29/14 12:23	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	35.2	16.0	1	08/29/14 08:30	08/29/14 12:23	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	35.2	16.0	1	08/29/14 08:30	08/29/14 12:23	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	35.2	16.0	1	08/29/14 08:30	08/29/14 12:23	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	35.2	16.0	1	08/29/14 08:30	08/29/14 12:23	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	35.2	16.0	1	08/29/14 08:30	08/29/14 12:23	11097-69-1	
PCB-1260 (Aroclor 1260)	35.8	ug/kg	35.2	16.0	1	08/29/14 08:30	08/29/14 12:23	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	41 %		10-128		1	08/29/14 08:30	08/29/14 12:23	2051-24-3	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	6.2 %		0.10	0.10	1		08/29/14 14:28		

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### ANALYTICAL RESULTS

Project: Delta Mills  
Pace Project No.: 92215328

Sample: DM-S-022 Lab ID: 92215328003 Collected: 08/28/14 11:40 Received: 08/28/14 14:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB SC</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	ND	ug/kg	172	78.0	5	08/29/14 08:30	08/29/14 12:43	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/kg	172	78.0	5	08/29/14 08:30	08/29/14 12:43	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/kg	172	78.0	5	08/29/14 08:30	08/29/14 12:43	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/kg	172	78.0	5	08/29/14 08:30	08/29/14 12:43	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/kg	172	78.0	5	08/29/14 08:30	08/29/14 12:43	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/kg	172	78.0	5	08/29/14 08:30	08/29/14 12:43	11097-69-1	
PCB-1260 (Aroclor 1260)	738	ug/kg	172	78.0	5	08/29/14 08:30	08/29/14 12:43	11096-82-5	
<b>Surrogates</b>									
Decachlorobiphenyl (S)	0 %		10-128		5	08/29/14 08:30	08/29/14 12:43	2051-24-3	S4
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	3.9 %		0.10	0.10	1		08/29/14 14:29		

*gan*  
09/18/14

### REPORT OF LABORATORY ANALYSIS

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