February 9, 2017

Chris Evans
Maine Department of Environmental Protection
17 State House Station
Augusta, Maine 04333

Re: Remedial Action Report
FairPoint Communications
Utility Pole Storage Area
11 Mallet Park Road, Brunswick, Maine
St.Germain Collins File No.: 3947

Dear Chris:

On behalf of FairPoint Communications (FairPoint), St.Germain Collins is submitting this Remedial Action Report for the above-referenced facility (Site) located in Brunswick, Maine (see Figure 1, Site Location Map). This report documents the removal of contaminated soil, and confirmation sampling of the utility pole storage area and debris pile located east of the Site building. The soil remediation was completed in accordance with St.Germain Collins' Remedial Action Plan (RAP) dated August 10, 2016.

BACKGROUND

The Site is located at 11 Mallet Park Road in Brunswick, Maine. It has been used for vehicle, and utility pole storage by telephone/communications companies since at least 1975. The 4.64-acre Site is occupied by a 27,000 square-foot building built in 1974, with paved access ways and storage areas surrounding it.

The Site is currently served by public water and sewer. Utility poles were stored east of the Site building (see Figure 2, Site Plan) on four cribs. Utility pole debris was stored at the far southern end of the cribs.

CONCEPTUAL SITE MODEL

A conceptual site model (CSM) was presented in the above referenced RAP. The purpose of the CSM is to summarize the nature and extent of known or suspected contaminants, potential contaminant pathways, and whether contaminant levels combined with potential pathways represent a risk to human health and/or the environment. Based upon the CSM, the most effective remedial action was determined to be removal of contaminant impacted soil.

Hydrogeologic Setting

The Site is located on relatively level land on the west side of the New Meadows River. Surface water flow from the pole storage areas either infiltrates the ground or sheet flows towards the northern property boundary, and discharges to an unnamed pond through a culvert below the northern access road. The pond discharges into an unnamed stream which eventually flows to Thomas Bay to the south.

According to the Maine Geological Survey (MGS), the Site is located within a sand and gravel aquifer with moderate to good potential groundwater yield (see MGS Open File 99-18). The MGS Surficial Geology map of the Brunswick Quadrangle (see MGS Open File 01-485) indicates that unconsolidated materials beneath the Site consist primarily of coarse sand deposits. This is consistent with observations made in the field during soil removal activities. The MGS Bedrock Geology map for the Bath Quadrangle (see MGS Open File 78-16) indicates that the Site is underlain by plagioclase quartz biotite metamorphic rocks.

Based on topography and geology, overburden groundwater flow is likely to the northwest towards the unnamed pond and stream. Shallow bedrock groundwater likely follows along a similar path but it could be variable due to bedrock fractures.

Contaminants of Concern

Based upon our previous experience with pole yard remediation, St.Germain Collins selected pentachlorophenol (PCP), dioxin (a byproduct of PCP production), metals (chromium, copper, and arsenic (CCA)), and polycyclic aromatic hydrocarbons (PAHs) as the primary contaminants of concern (COC) for determining if remedial actions are complete.

Potential Exposure Pathways and Cleanup Standards

The primary potential release mechanism for the COC is the dripping of preservatives from the utility poles onto the ground surface during storage. A secondary release mechanism is through the mixing of utility pole fragments with the soil in the utility pole debris storage area.

The COC are minimally soluble in water. Furthermore, the area is served by public water. Therefore, groundwater ingestion is not considered a potential exposure pathway. The COC are not particularly volatile either, and therefore inhalation of vapors is not considered a potential exposure pathway.

Since the COC tend to bind with soil and organic material, potential exposure pathways consist of ingestion, inhalation of particles, or dermal contact of soil and organic material. This exposure could occur with the soil and organic material beneath the utility pole storage areas and the utility pole debris pile.

The Site has been used for commercial purposes since constructed in 1974, and would presumably be used as such in the future; however FairPoint is committed to remediating the Site to the 2016 Maine Department of Environmental Protection (MEDEP) Residential Remedial Action Guidelines (RAGs), or background conditions to the extent possible.

Background Conditions

St.Germain Collins collected three background samples (B-1, B-2, and B-3) of surface soil in areas of the Site where utility poles and utility pole debris were not stored. The samples were collected using Incremental Sampling Methodology (ISM). See Figure 2 for background sample locations. These background samples were submitted for laboratory analysis of CCA and PAHs since arsenic in Maine soil can occur at naturally high levels, and because urban activities (e.g., vehicle exhaust, asphalt, and oil drips) can deposit PAHs along roadsides and land with a history of commercial/industrial use. Chromium and copper were also included to document their naturally occurring levels. Analytical methods, detection limits, quality control/quality assurance data, and laboratory results are presented in Attachment A, Laboratory Reports.

REMEDIAL ACTIONS

The following information is a summary of the remediation and sampling methods as presented in the previously referenced RAP.

Soil Excavation

Between October 11, 2016 and October 28, 2016, soil excavation activities were conducted by Allstate Environmental Services (AES) of Gorham, Maine, a subcontractor to Granite Environmental of Rockport, Massachusetts, under the supervision of St.Germain Collins. Based on our experience at other utility pole yard remediation sites, 2 feet of soil was initially removed from beneath and around the utility pole cribs and utility pole debris pile covering an area about 345 feet by 30 feet. The soil was live-loaded into trucks and shipped to CPRC Group of Scarborough, Maine for recycling. A second phase of soil removal was completed after reviewing the results of the initial round of excavation screening samples (ESS). Approximately 3,047 tons of soil were removed and shipped to CPRC Group of Scarborough, Maine for recycling. Soil Shipment Documentation is provided as Attachment B.

Site Restoration

After receiving notice from the MEDEP that the remediation was acceptable, the excavation was backfilled to grade and the disturbed area was restored to its original ground cover type/condition.

Confirmatory Sampling Procedures within Remedial Actions and Analytical Methods

Two types of confirmation samples were collected. The first type was collected after the initial soil removal, and consisted of ESS samples which were collected following a simple compositing method. The ESS samples were analyzed for dioxin by Cape Technologies, Inc. in South Portland, Maine (Cape Tech) using EPA Method 4025M. This methodology allows a relatively inexpensive evaluation of whether the soil excavation is likely to meet the cleanup requirements prior to the more costly final confirmation sampling.

The second type of confirmation samples were collected after all ESS sample results were below the Residential RAG indicating that soil removal was complete. The second type of confirmation sample was collected in accordance with the Interstate Regulatory and Technology Council's (ITRC) guidance document on Incremental Sampling Methodology (ISM), and described in detail in the RAP. These ISM samples were analyzed for dioxin using EPA Method 8290 by Pace Laboratory in Minneapolis, Minnesota (Pace). PCP was analyzed using EPA Method 8270 and CCA using EPA Method 6010 by Absolute Resources of Portsmouth, New Hampshire (Absolute).

Upon completion of each phase the soil removal, a sampling grid was superimposed over the bottom of the utility pole crib and utility pole debris pile excavation to be used for both ESS and ISM samples, see Figure 3, Confirmation Sample Locations. The number of increments and how they were combined to make sample units (SU) is consistent with the RAP.

Based on the pole crib excavation dimensions of approximately 185 feet by 24 feet (the sampling grid for this area consisted of three rows (oriented approximately north-south) with nineteen 8 foot by 10 foot grid cells in each row. The sidewall sampling grid consists of contiguous 10-foot (horizontal) by at least 2-foot (vertical) cells along each side. The utility debris pile was irregularly-shaped and the specific grid size and layout are shown on Figure 3, which is consistent with ISM.

The only significant deviation from the RAP is that both ESS and ISM samples were collected utilizing the United States Army Corps of Engineers, Cold Regions Research and Engineering Laboratory Multi-Increment Sampling Tool (CMIST). The CMIST was designed specifically for the collection of ISM samples; it ensures that all increments are uniform in volume, diameter, and depth. The CMIST was decontaminated after each ISM sample was collected following the MEDEP Standard Operating Procedure (SOP) number RWM-DR-017, Equipment Decontamination Protocol.

RESULTS

Quality Assurance/Quality Control

The laboratory reports in Attachment A include a discussion of the internal quality assurance/quality control (QA/QC) data by the analytical laboratory. Other than a few instances when surrogate recoveries were outside the acceptable range and some

qualifiers were necessary due to matrix interference, the laboratory concluded that the data are of acceptable quality, and confirmed its usability.

Duplicate and other QA/QC samples were not collected since ISM represents a very thorough and statistically valid method for soil sampling. The abundant number of grabs ensures that the SU samples are representative. Furthermore, Absolute and Pace provide extensive QA/QC control packages with each report, documenting their internal standards and spike results.

Background Data

Data from the three background samples (B-1, B-2, and B-3) is compared to the MEDEP Residential RAG, the MEDEP Urban Developed Background, Undeveloped Maine Background, Maine Urban Fill Background, and was used to develop a Site specific background concentration. The background data is summarized in the Table 1, Soil Sample Data.

Arsenic was detected above the Residential RAG in each sample but below the MEDEP Undeveloped Maine Background level of 16 milligrams per kilogram (mg/kg). The average arsenic concentration for the background samples was 8 mg/kg. Chromium and copper were below the Residential RAGs.

Four PAHs (benzo(b)fluoranthene, chrysene, fluoranthene, and pyrene) were reported present in one background sample (B-3) below their Residential RAGs.

Excavation Screening Samples (ESS) Data

All the ESS samples were reported with dioxin levels below the 100 nanogram per kilogram (ng/kg) Residential RAG except for five sidewall samples, and one bottom sample with concentrations ranging from of 101 to 263 ng/kg. Based upon these results, and additional four feet of soil was removed along the sidewalls and an additional foot of soil was removed from the bottom in those areas exceeding the Residential RAG. After the additional soil was removed, additional ESS samples were collected. Once all ESS sample results were below the 100 ng/kg, final confirmatory sampling was completed. The areas of additional soil removal based upon the ESS sampling is shown on Figure 3. Excluding those six results, the average dioxin level of the excavation bottom and sidewalls was 37 ng/kg. The dioxin results from the ESS sampling are provided in Attachment C, Excavation Screening Sample Data.

Incremental Sample Methodology (ISM) Data

A total of 27 ISM samples were collected (SU-1-1 through SU-9-3). Each SU sample consisted of 30 aliquots, and each was collected in triplicate following the RAP. Dioxin was reported in each replicate for each SU with concentrations ranging from 0.28 to 41 ng/kg. The average dioxin level for all SU replicates was 9 ng/kg, well below the Residential RAG and the higher ESS average of 37 ng/kg.

Arsenic concentrations exceeded the Residential RAG for all SU replicates; however, all were below the Undeveloped Maine Background concentration of 16 mg/kg. The average arsenic concentration for all SU replicates was 3.04 mg/kg which is below the 8 mg/kg average for the Site background samples. Chromium and copper concentratios were all below the Residential RAGs.

PCP was not reported present in any of the ISM samples.

PAHs were detected in one SU sample set of replicates (SU-9-1, SU-9-2, and SU-9-3) with many of the parameters and concentrations similar to those detected in the background samples. PAH concentrations were generally consistent with Background concentrations, and below their respective residential RAGs.

Table 1, summarizes the results of the incremental sampling of the final excavation bottom and sidewalls.

Data Use

The SU samples (bottom and sidewall) generated from the utility pole cribs and utility pole debris pile were combined together to make a Decision Unit (DU) for ISM statistical analysis. The basis for creating two SU samples each from the bottom and sidewalls was to aid in the location of potential RAG or Background exceedances, which did not occur at this Site. To further evaluate the data, St.Germain Collins followed ITRC guidance by using the SU triplicate results, and combining them into DUs to calculate the 95% Upper Confidence Limit (UCL95) of the mean concentration of each of the two contaminants (dioxin and arsenic) in the utility pole crib and utility debris pile.

To summarize the method, if at least 30 discrete samples are collected per SU (or DU) and in triplicate, the UCL95 of the mean is a statistically valid prediction of the highest likely mean concentration for that DU. ITRC provides a spreadsheet that calculates the UCL95 using the appropriate statistical method based on the data distribution and size of the DUs. Attachment C, UCL95 Calculations, presents the assumptions and results of the calculations in spreadsheet format. The resulting statistics were evaluated using the following decision matrix, and are summarized in the following tables.

DECISION MATRIX FOR INCREMENTAL SAMPLE RESULTS				
Mean DU Result	**UCL 95**	**CV**	**Decision**	**Notes**
Below RAG	Below	Low	No further action	---
Below RAG	Below	Medium	No further action	---
Below RAG	Below	High	No further action	---
Below RAG	Above	Low	No further action	---
Below RAG	Above	Medium	Further action needed	Additional sampling or soil excavation may occur.
Below RAG	Above	High	Further action needed	Additional sampling or soil excavation may occur.
Above RAG	NA	NA	Further action needed	In all scenarios, if the DU mean is above the RAG additional soil will be removed.

COMPARISON OF DU DIOXIN RESULTS					
Decision Unit	**DU Mean Result**	**UCL 95**	**CV**	**Comparison to the RAG (100 ppt)**	**Decision based upon the Matrix**
DU-1	5.6	22.2	High	Below	No further action
DU-2	2.8	5.9	Medium	Below	No further action
DU-3	33	44.8	Low	Below	No further action
DU-4	4.2	6.6	Medium	Below	No further action
DU-5	3.0	6.3	High	Below	No further action
DU-6	10.9	15.2	Medium	Below	No further action

COMPARISON OF DU ARSENIC RESULTS						
Decision Unit	**DU Mean Result**	**UCL 95**	**CV**	**Comparison to Site Background (8.4 ppm)***	**Comparison to the RAG (1.4 ppm)**	**Decision based upon the Matrix**
DU-1	ND (2.5)	NC	NA	Below	Above**	No further action
DU-2	2.5**	NC	NA	Below	Above***	No further action
DU-3	2.9	3.1	Low	Below	Above	No further action
DU-4	3.2	3.5	Low	Below	Above	No further action
DU-5	ND (2.5)	NC	NA	Below	Above**	No further action
DU-6	ND (2.5)	NC	NA	Below	Above**	No further action

Notes:
RAG = Remedial Action Guideline
ppt = parts per trillion
ppm = parts per million
* Site background concentration is the average of the three ISM samples from background locations on the Site
** The laboratory reporting limit is above the arsenic RAG
*** One of the triplicates had arsenic detected above the laboratory reporting limit
ND (2.5) = Not detected above the associated laboratory reporting
NC = Not calculated
UCL 95 = 95% Upper Confidence Limit as defined by ITRC ISM Guidance
CV = Coefficient of Variability as defined by ITRC ISM Guidance
NA = Not Applicable
NFA = No Further Action

No ISM sample (DU or SU) results exceeded the MEDEP Residential RAGs or background, and based upon the scenarios provided in the table above, no further action is needed.

FINDINGS AND CONCLUSIONS

St.Germain Collins supervised the excavation of approximately 3,047 tons of soil contaminated by utility pole preservatives at the FairPoint facility in Brunswick, Maine. The COC were dioxin, CCA, PCP, and PAHs. Confirmatory samples were collected from the excavation bottom and sidewalls using the ITRC incremental sampling method. The results are as follows:

- Dioxin concentrations are now below the Residential RAG.
- Arsenic concentrations are above the Residential RAGs, but below the Site Background and Maine Undeveloped Background concentrations. Chromium and copper are below the Residential RAGs and close to background concentrations.
- PCP was not detected in any of the ISM samples.
- The PAHs detected were below the Residential RAGs.

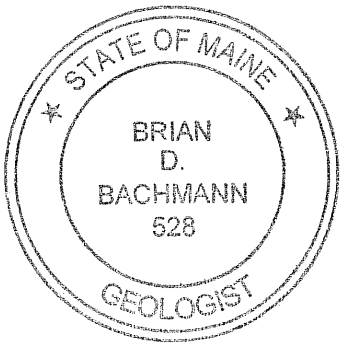
Based upon the above findings, St.Germain Collins concludes that no further remediation is necessary.

If you have any questions or comments, please feel free to contact us at 207-591-7000.

Sincerely,
ST.GERMAIN COLLINS

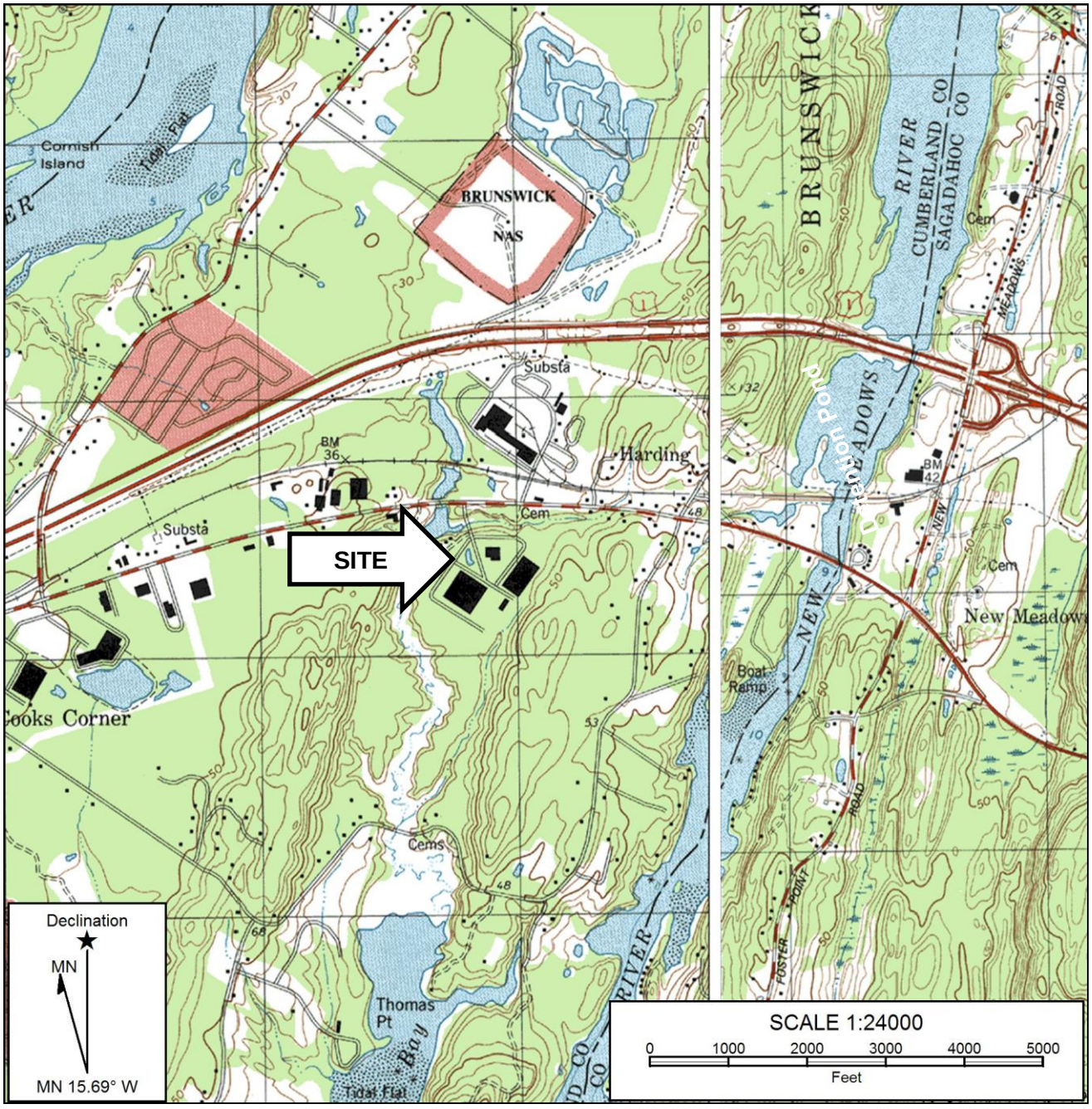
Brian Bachmann

Brian Bachmann, C.G.
Geologist



cc: Scott Allocca, Fairpoint Communications

Figure 1	Site Location Map
Figure 2	Site Plan
Figure 3	Confirmation Sample Locations
Table 1	Soil Sample Data
Attachment A	Laboratory Reports
Attachment B	Soil Shipment Documentation
Attachment C	Excavation Screening Sample Data
Attachment D	UCL95 Calculations



SOURCE: USGS BRUNSWICK MAINE TOPOGRAPHIC MAP

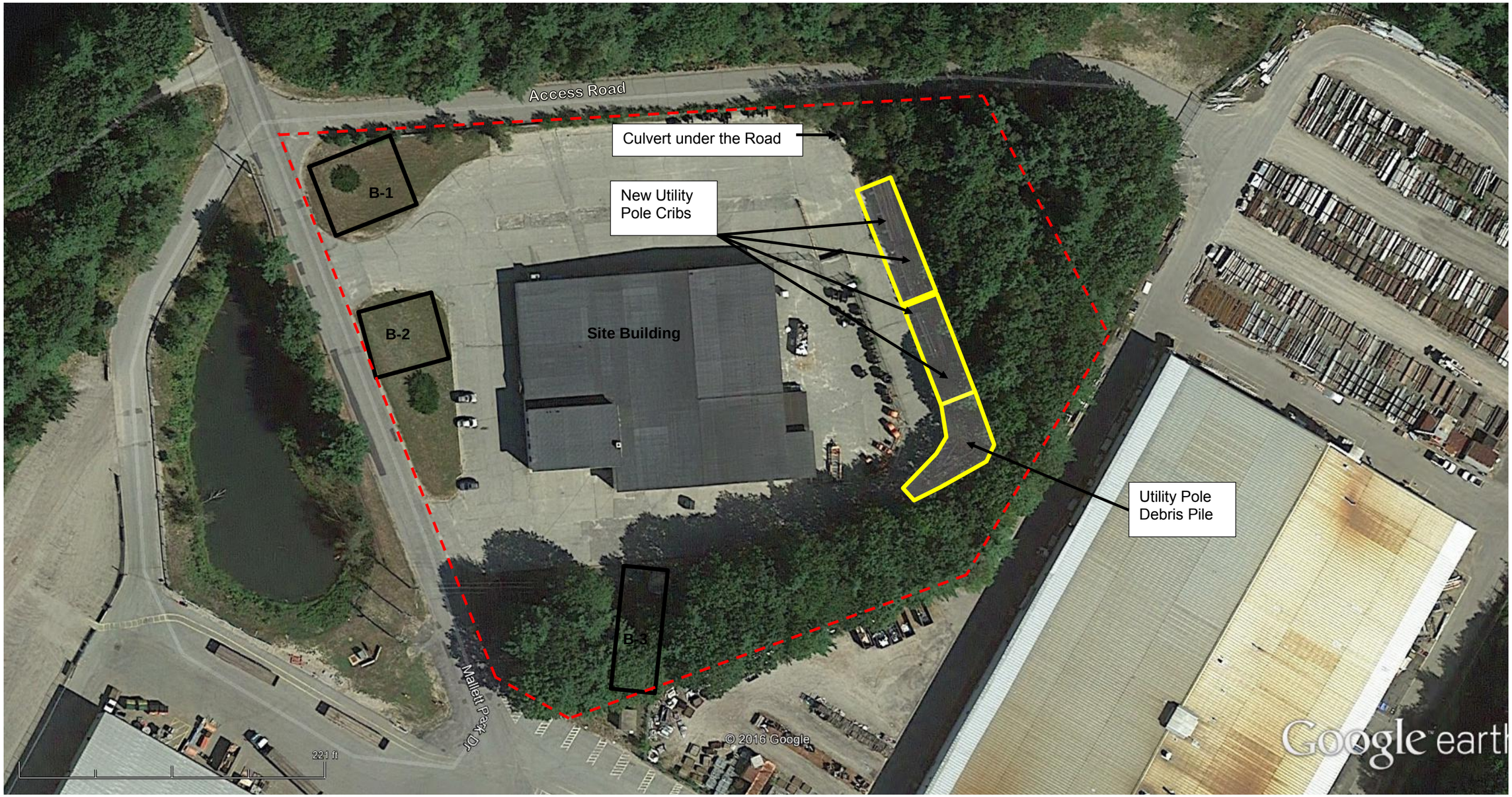
SITE LOCATION MAP
11 MALLET PARK ROAD
BRUNSWICK, MAINE

FAIRPOINT COMMUNICATIONS
1 DAVIS FARM ROAD
PORTLAND, ME 04103

St.Germain · Collins

FIGURE 1

DATE: 2/9/17	SCALE: SEE ABOVE	PROJECT NO.: 3497	FILE: FIGURE 1	846 MAIN STREET, WESTBROOK, ME 04092 207-591-7000 WWW.STGERMAINCOLLINS.COM



LEGEND

BACKGROUND INCREMENTAL SAMPLE AREAS

CONFIRMATION INCREMENTAL SAMPLE AREAS

APPROXIMATE PROPERTY BOUNDARY

SOURCE: GOOGLE EARTH 2016

N

SITE PLAN

11 MALLET PARK ROAD
BRUNSWICK, MAINE

FAIRPOINT COMMUNICATIONS
1 DAVIS FARM ROAD
PORTLAND, ME 04103

St.Germain · Collins

FIGURE 2

DATE: 2/9/17	SCALE: SEE ABOVE	PROJECT NO.: 3947	FILE: FIGURE_2

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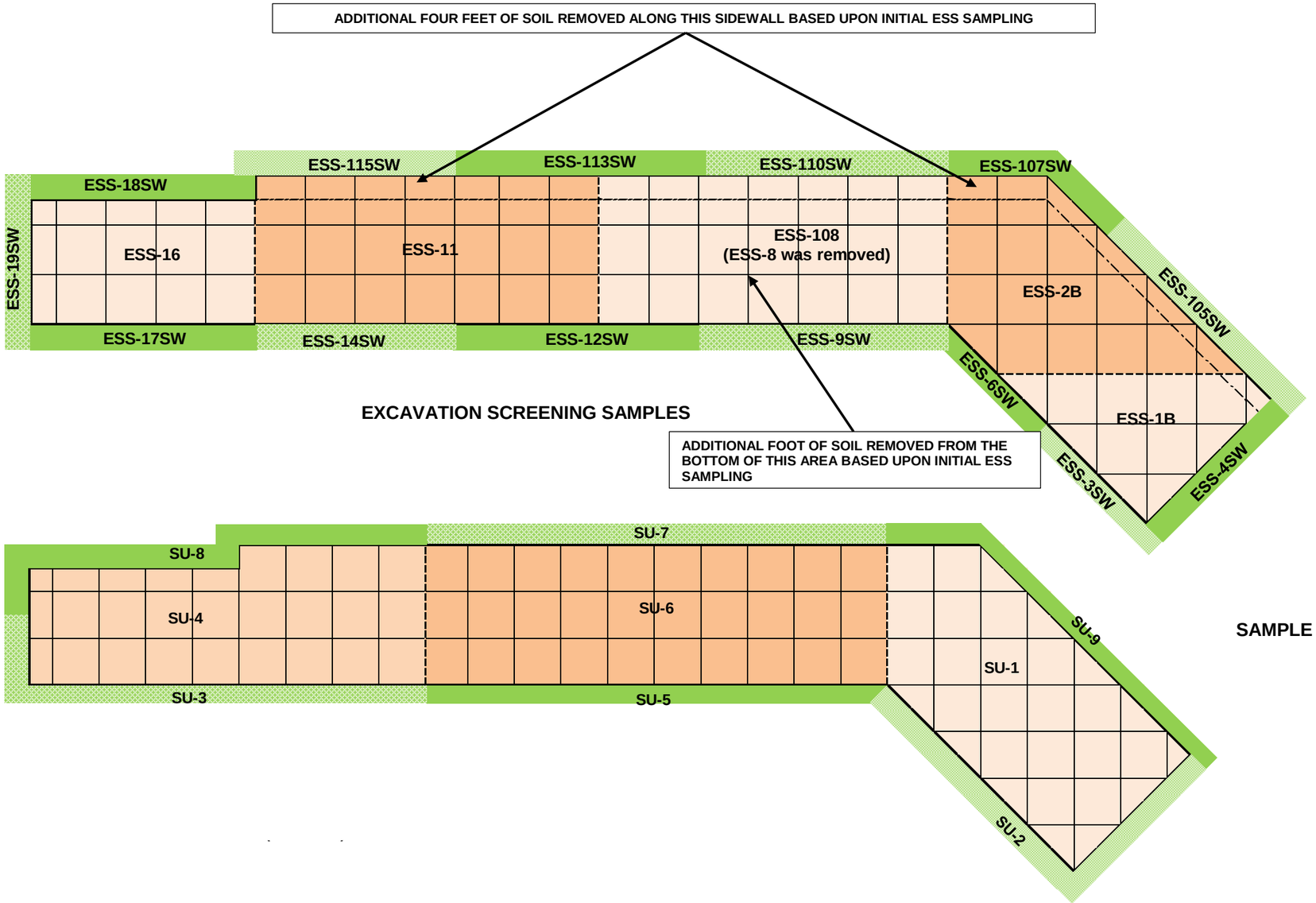

SAMPLE AND DECISION UNIT SAMPLES

DU-1
(SU-1)
DU-2
(SU-2)
DU-3
(SU-3)
DU-4
(SU-3 + SU-5)
DU-5
(SU-7 + SU-8)
DU-6
(SU-4 + SU-6)

LEGEND

SIDEWALL SAMPLES

BOTTOM SAMPLES

8’ × 10’ GRID CELL

N

CONFIRMATION SAMPLE LOCATIONS

11 MALLET PARK ROAD
BRUNSWICK, MAINE

FAIRPOINT COMMUNICATIONS
1 DAVIS FARM ROAD
PORTLAND, ME 04103

St.Germain · Collins

FIGURE 3

DATE: 2/9/17 | SCALE: SEE LEGEND | PROJECT NO.: 3947 | FILE: FIGURE_3

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Table 1
Soil Sample Data
FairPoint Facility
11 Mallet Park Road
Brunswick, Maine

Sample:	SU-1-1	SU-1-2	SU-1-3	SU-2-1	SU-2-2	SU-2-3	SU-9-1	SU-9-2	SU-9-3	SU-3-1	SU-3-2	SU-3-3	SU-5-1	SU-5-2	SU-5-3	SU-7-1	SU-7-2	SU-7-3	SU-8-1	SU-8-2	SU-8-3	SU-6-1	SU-6-2	SU-6-3	SU-4-1	SU-4-2	SU-4-3	B-1	B-2	B-3		
Date:	10/26/16	10/26/16	10/26/16	10/26/16	10/26/16	10/26/16	10/28/16	10/28/16	10/28/16	10/26/16	10/26/16	10/26/16	10/28/16	10/28/16	10/28/16	10/28/16	10/28/16	10/28/16	10/28/16	10/28/16	10/28/16	10/28/16	10/28/16	10/28/16	10/26/16	10/26/16	10/26/16	10/13/16	10/13/16	10/13/16	MEDEP	
Location:	Debris Pile Bottom (DU-1)			Debris Pile Sidewalls (DU-2)			Debris Pile Sidewalls (DU-3)			Pole Crib Sidewall (DU-4)						Pole Crib Sidewall (DU-5)						Pole Crib Bottom (DU-6)						Background			RRAGs	UDB
Dioxin TEQ (ng/kg)	**3.4**	**13**	**0.28**	**2.5**	**1.8**	**4.2**	**28**	**30**	**41**	**7.6**	**5.6**	**5.1**	**4.4**	**1.9**	**2.3**	**1.5**	**0.46**	**0.38**	**7.2**	**2.3**	**6.0**	**5.3**	**11**	**8.0**	**13**	**13**	**16**				100	NA
Metals																																
Arsenic	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	**2.5**	**2.9**	**2.7**	**3.0**	**3.4**	**3.2**	**2.7**	**3.2**	**3.4**	**3.4**	ND (2.5)	ND (2.4)	ND (2.5)	ND (2.5)	ND (2.4)	ND (2.5)	ND (2.3)	ND (2.4)	ND (2.5)	ND (2.4)	ND (2.4)	ND (2.3)	**9.8**	**3.4**	**12**	1.4	16*
Chromium	ND (9.8)	ND (10)	ND (9.8)	**11**	**11**	**10**	**12**	**11**	**12**	**11**	**11**	ND (9.8)	**11**	**12**	**12**	ND (9.8)	ND (9.6)	ND (9.8)	ND (10)	ND (9.6)	ND (10)	ND (9.3)	ND (9.6)	ND (10)	ND (9.4)	ND (9.6)	ND (9.3)	**18**	**17**	**33**	10,000	NA
Copper	ND (9.8)	ND (10)	ND (9.8)	ND (10)	ND (9.8)	ND (9.4)	ND (9.8)	ND (9.6)	ND (10)	ND (9.8)	ND (9.8)	ND (9.8)	ND (9.6)	**10**	ND (9.6)	ND (9.8)	ND (9.6)	ND (9.8)	ND (10)	ND (9.6)	ND (10)	ND (9.3)	ND (9.6)	ND (10)	ND (9.4)	ND (9.6)	ND (9.3)	**11**	**10**	**18**	2,400	NA
Pentachlorophenol	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	20	NA
Polycyclic aromatic hydrocarbons (PAHs)																																
2-methylnaphthalene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	500	0.089
acenaphthene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	7,500	0.2
acenaphthylene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	7,500	0.39
anthracene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	10,000	0.4
benzo(a)anthracene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	**0.15**	ND (0.05)	**0.11**	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	2.6	1.6
benzo(a)pyrene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	**0.15**	ND (0.05)	**0.1**	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.26	1.7
benzo(b)fluoranthene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	**0.16**	**0.07**	**0.11**	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	**0.08**	2.6	2
benzo(g,h,i)perylene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	**0.11**	ND (0.05)	**0.07**	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	3,700	0.79
benzo(k)fluoranthene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	**0.17**	ND (0.05)	**0.13**	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	26	0.76
chrysene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	**0.21**	**0.08**	**0.15**	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	**0.06**	260	2.3
dibenzo(a,h)anthracene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	**0.05**	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	0.26	0.23
dibenzofuran	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	130	NA
fluoranthene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	**0.26**	**0.08**	**0.23**	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	**0.06**	5,000	3.2
fluorene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	5,000	0.29
indeno(1,2,3-cd)pyrene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	**0.09**	ND (0.05)	**0.06**	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	2.6	0.74
naphthalene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	2,500	39*
phenanthrene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	**0.2**	ND (0.05)	**0.13**	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	3,700	1.6
pyrene	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	**0.27**	**0.09**	**0.22**	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	ND (0.05)	**0.07**	3,700	2.8

Notes:

Data in mg/kg unless noted otherwise.

NA = not available. NC = not calculated. ND = not detected above listed limit.

UCL95 = 95% Uppper Confidence Limit of the mean. 1&2 = UCL95 for combined Decision Units (DUs) 1 and 2. 3&4 = UCL95 for combined DUs 3 and 4.

MEDEP = Maine Department of Environmental Protection.

RRAGs = Residential Remedial Action Guidelines, 2016. Shading indicates exceedence of RRAG.

* = Undeveloped Maine Background. Marked values below Undeveloped Maine Background.

UDB = Urban Developed Background, 2016. ** = value below UDB.

ATTACHMENT A

Laboratory Reports

Laboratory Report

Absolute Resource associates
124 Heritage Avenue Portsmouth NH 03801

Brian Bachmann
St.Germain & Associates, Inc.
846 Main St.
Suite 3
Westbrook, ME 04092

PO Number: None
Job ID: 38303
Date Received: 10/24/16

Project: FP Brunswick 3947

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Absolute Resource Associates maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Absolute Resource Associates

Sue Sylvester (for)
Principal, General Manager

Date of Approval: 11/7/2016
Total number of pages: 6

Absolute Resource Associates Certifications

New Hampshire	1732	Massachusetts	M-NH902
Maine	NH903		

Project ID: FP Brunswick 3947
Job ID: 38303
Sample#: 38303-001
Sample ID: B-1
Matrix: Solid Percent Dry: 99.5% Results expressed on a dry weight basis.
Sampled: 10/13/16 10:15

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**52**	21-100	%	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
phenol-D5 SUR	**49**	10-102	%	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
2,4,6-tribromophenol SUR	**41**	10-123	%	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
nitrobenzene-D5 SUR	**49**	35-114	%	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
2-fluorobiphenyl SUR	**51**	43-116	%	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D
p-terphenyl-D14 SUR	**60**	33-141	%	1	CL	10/26/16	9151	10/28/16	17:41	SW3546/8270D

Project ID: FP Brunswick 3947
Job ID: 38303
Sample#: 38303-002
Sample ID: B-2
Matrix: Solid Percent Dry: 97.4% Results expressed on a dry weight basis.
Sampled: 10/13/16 10:45

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	18:21	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	18:21	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	18:21	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	18:21	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	18:21	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL	10/26/16	9151	10/28/16	18:21	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	18:21	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	18:21	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	18:21	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	18:21	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	18:21	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	18:21	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	18:21	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	18:21	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	18:21	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	18:21	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	18:21	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	18:21	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**52**	21-100	%	1	CL	10/26/16	9151	10/28/16	18:21	SW3546/8270D
phenol-D5 SUR	**50**	10-102	%	1	CL	10/26/16	9151	10/28/16	18:21	SW3546/8270D
2,4,6-tribromophenol SUR	**40**	10-123	%	1	CL	10/26/16	9151	10/28/16	18:21	SW3546/8270D
nitrobenzene-D5 SUR	**49**	35-114	%	1	CL	10/26/16	9151	10/28/16	18:21	SW3546/8270D
2-fluorobiphenyl SUR	**51**	43-116	%	1	CL	10/26/16	9151	10/28/16	18:21	SW3546/8270D
p-terphenyl-D14 SUR	**61**	33-141	%	1	CL	10/26/16	9151	10/28/16	18:21	SW3546/8270D

Project ID: FP Brunswick 3947
Job ID: 38303
Sample#: 38303-003
Sample ID: B-3
Matrix: Solid Percent Dry: 96.9% Results expressed on a dry weight basis.
Sampled: 10/13/16 11:15

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
fluoranthene	**0.06**	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
pyrene	**0.07**	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
chrysene	**0.06**	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
benzo(b)fluoranthene	**0.08**	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**55**	21-100	%	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
phenol-D5 SUR	**54**	10-102	%	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
2,4,6-tribromophenol SUR	**45**	10-123	%	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
nitrobenzene-D5 SUR	**51**	35-114	%	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
2-fluorobiphenyl SUR	**55**	43-116	%	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D
p-terphenyl-D14 SUR	**65**	33-141	%	1	CL	10/26/16	9151	10/28/16	19:00	SW3546/8270D

Project ID: FP Brunswick 3947

Job ID: 38303

Sample#: 38303-001

Sample ID: B-1

Matrix: Solid Percent Dry: 99.5% Results expressed on a dry weight basis.

Sampled: 10/13/16 10:15

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Arsenic	**9.8**	2.5	ug/g	5	AM	10/27/16	9157	10/27/16	14:51	SW3051A6020A
Chromium	**18**	5.0	ug/g	5	AM	10/27/16	9157	10/27/16	14:51	SW3051A6020A
Copper	**11**	5.0	ug/g	5	AM	10/27/16	9157	11/1/16	15:39	SW3051A6020A

Sample#: 38303-002

Sample ID: B-2

Matrix: Solid Percent Dry: 97.4% Results expressed on a dry weight basis.

Sampled: 10/13/16 10:45

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Arsenic	**3.4**	2.5	ug/g	5	AM	10/27/16	9157	10/27/16	14:58	SW3051A6020A
Chromium	**17**	4.9	ug/g	5	AM	10/27/16	9157	10/27/16	14:58	SW3051A6020A
Copper	**10**	4.9	ug/g	5	AM	10/27/16	9157	11/1/16	15:46	SW3051A6020A

Sample#: 38303-003

Sample ID: B-3

Matrix: Solid Percent Dry: 96.9% Results expressed on a dry weight basis.

Sampled: 10/13/16 11:15

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Arsenic	**12**	2.6	ug/g	5	AM	10/27/16	9157	10/27/16	15:05	SW3051A6020A
Chromium	**33**	5.2	ug/g	5	AM	10/27/16	9157	10/27/16	15:05	SW3051A6020A
Copper	**18**	5.2	ug/g	5	AM	10/27/16	9157	11/1/16	15:53	SW3051A6020A

PAGE____ OF____

Absolute Resource associates

124 Heritage Avenue #16
Portsmouth, NH 03801
603-436-2001
absoluteresourceassociates.com

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST 38303

Company Name: St. Germain Collins

Company Address: 846 Main St. Westbrook, ME

Report To: brianb@stgermaincollins.com

Phone #: 1-207-615-3073

Invoice to Email: scalloca@fairpoint.com

☐ Hard Copy Invoice Required

Project Name: FP. Brunswick

Project #: 3947

Project Location: NH MA ME VT NY ____ Other

Protocol: RCRA SDWA NPDES MCP NHDES (OTHER)

Reporting Limits: QAPP GW-1 (S-1) EPA DW Other____

Quote #________ ☐ NH Reimbursement Pricing

PO #________

ANALYSIS REQUEST

☐ VOC 8260 ☐ VOC 8260 NHDES ☐ VOC 8260 MADEP; ☐ VOC 624 ☐ VOC BTEX ☐ MBE, only ☐ VOC 8021VT; ☐ VPH MADEP ☐ MEGRO ☐ GRO 8015 ☐ 1,4-Dioxane; ☐ VOC 524.2 ☐ VOC 524.2 NH List ☐ Gases-List:; ☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint; ☐ 8270PAH ☐ 8270ABN ☐ 625 ☐ EDB; ☐ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB; ☐ O&G 1664 ☐ Mineral O&G SM5520F; ☐ pH ☐ BOD ☐ Conductivity ☐ Turbidity; ☐ TSS ☐ TDS ☐ TS ☐ TVS ☐ Alkalinity; ☐ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals ☐ Hardness; ☒ Total Metals-list: CCA; ☐ Dissolved Metals-list:; ☐ Ammonia ☐ COD ☐ TKN ☐ TN ☐ TON ☐ TOC; ☐ T-Phosphorus ☐ Phenols ☐ Bacteria P/A ☐ Bacteria MPN; ☐ Cyanide ☐ Sulfide ☐ Nitrate + Nitrite ☐ Ortho P; ☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☐ Bromide ☐ Fluoride; ☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP; ☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC ☐ TCLP Pesticide; Subcontract: ☐ Grain Size ☐ Herbicides ☐ Formaldehyde; PAHs, PCP; ISM Prep; Grab (G) or Composite (C)

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	WATER	SOLID	OTHER	HCl	HNO_3	H_2SO_4	NaOH	MeOH	DATE (13 @ per Brian 10/26)	TIME	SAMPLER	Total Metals-list: CCA	PAHs, PCP	ISM Prep	Grab (G) or Composite (C)
38303-01	B-1			X							10/23/16	1015	BB	X	X	X	C
02	B-2			X							10/13/16	1045	BB	X	X	X	C
03	B-3			X							10/13/16	1115	BB	X	X	X	C

Brian Bahm

TAT REQUESTED
Priority (24 hr)* ☐
Expedited (48 hr)* ☒
Standard (10 Business Days) ☐
*Date Needed ________

See absoluteresourceassociates.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS
Sent 3 plastic bags AD

REPORTING INSTRUCTIONS ☐ PDF (e-mail address) brianb@stgermaincollins.com
☐ HARD COPY REQUIRED ☐ FAX (FAX#)________

RECEIVED ON ICE ☒ YES ☐ NO
TEMPERATURE 0 °C

CUSTODY RECORD

Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Sampler: Brian Bahm	10/13/16	1600	Received by: Cold Storage	10/13/16	1600
Relinquished by: Brian Bahm	10/24/16	0955	Received by: [signature]	10/24/16	09:55
Relinquished by: [signature]	10/24/16	11:12	Received by Laboratory: [signature]	10/24/16	11:12

QSD-01 Revision 10/14/15

Laboratory Report

Absolute Resource associates
124 Heritage Avenue Portsmouth NH 03801

Brian Bachmann
St.Germain & Associates, Inc.
846 Main St.
Suite 3
Westbrook, ME 04092

PO Number: None
Job ID: 38413
Date Received: 11/2/16

Project: Fairpoint Brunswick 3947

Attached please find results for the analysis of the samples received on the date referenced above.

As requested by the customer, samples were air dried, sieved, and subjected to incremental sampling, prior to analysis.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Absolute Resource Associates maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Absolute Resource Associates

(for)

Sue Sylvester
Principal, General Manager

Date of Approval: 11/21/2016
Total number of pages: 24

Absolute Resource Associates Certifications

New Hampshire	1732	Massachusetts	M-NH902
Maine	NH903		

Project ID: Fairpoint Brunswick 3947
Job ID: 38413
Sample#: 38413-001
Sample ID: SU-1-1 (DPB)
Matrix: Solid
Sampled: 10/26/16 8:40

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	14:00	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	14:00	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	14:00	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	14:00	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	14:00	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL	11/9/16	9187	11/9/16	14:00	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	14:00	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	14:00	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	14:00	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	14:00	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	14:00	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	14:00	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	14:00	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	14:00	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	14:00	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	14:00	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	14:00	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	14:00	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**61**	21-100	%	1	CL	11/9/16	9187	11/9/16	14:00	SW3546/8270D
phenol-D5 SUR	**59**	10-102	%	1	CL	11/9/16	9187	11/9/16	14:00	SW3546/8270D
2,4,6-tribromophenol SUR	**31**	10-123	%	1	CL	11/9/16	9187	11/9/16	14:00	SW3546/8270D
nitrobenzene-D5 SUR	**62**	35-114	%	1	CL	11/9/16	9187	11/9/16	14:00	SW3546/8270D
2-fluorobiphenyl SUR	**64**	43-116	%	1	CL	11/9/16	9187	11/9/16	14:00	SW3546/8270D
p-terphenyl-D14 SUR	**79**	33-141	%	1	CL	11/9/16	9187	11/9/16	14:00	SW3546/8270D

Project ID: Fairpoint Brunswick 3947
Job ID: 38413
Sample#: 38413-002
Sample ID: SU-1-2 (DPB)
Matrix: Solid
Sampled: 10/26/16 8:40

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	14:40	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	14:40	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	14:40	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	14:40	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	14:40	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL	11/9/16	9187	11/9/16	14:40	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	14:40	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	14:40	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	14:40	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	14:40	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	14:40	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	14:40	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	14:40	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	14:40	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	14:40	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	14:40	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	14:40	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	14:40	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**57**	21-100	%	1	CL	11/9/16	9187	11/9/16	14:40	SW3546/8270D
phenol-D5 SUR	**53**	10-102	%	1	CL	11/9/16	9187	11/9/16	14:40	SW3546/8270D
2,4,6-tribromophenol SUR	**28**	10-123	%	1	CL	11/9/16	9187	11/9/16	14:40	SW3546/8270D
nitrobenzene-D5 SUR	**59**	35-114	%	1	CL	11/9/16	9187	11/9/16	14:40	SW3546/8270D
2-fluorobiphenyl SUR	**61**	43-116	%	1	CL	11/9/16	9187	11/9/16	14:40	SW3546/8270D
p-terphenyl-D14 SUR	**69**	33-141	%	1	CL	11/9/16	9187	11/9/16	14:40	SW3546/8270D

Project ID: Fairpoint Brunswick 3947
Job ID: 38413
Sample#: 38413-003
Sample ID: SU-1-3 (DPB)
Matrix: Solid
Sampled: 10/26/16 8:40

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	15:19	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	15:19	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	15:19	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	15:19	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	15:19	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL	11/9/16	9187	11/9/16	15:19	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	15:19	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	15:19	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	15:19	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	15:19	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	15:19	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	15:19	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	15:19	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	15:19	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	15:19	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	15:19	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	15:19	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	15:19	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**55**	21-100	%	1	CL	11/9/16	9187	11/9/16	15:19	SW3546/8270D
phenol-D5 SUR	**53**	10-102	%	1	CL	11/9/16	9187	11/9/16	15:19	SW3546/8270D
2,4,6-tribromophenol SUR	**26**	10-123	%	1	CL	11/9/16	9187	11/9/16	15:19	SW3546/8270D
nitrobenzene-D5 SUR	**56**	35-114	%	1	CL	11/9/16	9187	11/9/16	15:19	SW3546/8270D
2-fluorobiphenyl SUR	**60**	43-116	%	1	CL	11/9/16	9187	11/9/16	15:19	SW3546/8270D
p-terphenyl-D14 SUR	**75**	33-141	%	1	CL	11/9/16	9187	11/9/16	15:19	SW3546/8270D

Project ID: Fairpoint Brunswick 3947
Job ID: 38413
Sample#: 38413-004
Sample ID: SU-2-1 (DPSW)
Matrix: Solid
Sampled: 10/26/16 9:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	15:59	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	15:59	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	15:59	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	15:59	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	15:59	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL	11/9/16	9187	11/9/16	15:59	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	15:59	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	15:59	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	15:59	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	15:59	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	15:59	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	15:59	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	15:59	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	15:59	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	15:59	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	15:59	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	15:59	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	15:59	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**55**	21-100	%	1	CL	11/9/16	9187	11/9/16	15:59	SW3546/8270D
phenol-D5 SUR	**51**	10-102	%	1	CL	11/9/16	9187	11/9/16	15:59	SW3546/8270D
2,4,6-tribromophenol SUR	**38**	10-123	%	1	CL	11/9/16	9187	11/9/16	15:59	SW3546/8270D
nitrobenzene-D5 SUR	**52**	35-114	%	1	CL	11/9/16	9187	11/9/16	15:59	SW3546/8270D
2-fluorobiphenyl SUR	**55**	43-116	%	1	CL	11/9/16	9187	11/9/16	15:59	SW3546/8270D
p-terphenyl-D14 SUR	**64**	33-141	%	1	CL	11/9/16	9187	11/9/16	15:59	SW3546/8270D

Project ID: Fairpoint Brunswick 3947
Job ID: 38413
Sample#: 38413-005
Sample ID: SU-2-2 (DPSW)
Matrix: Solid
Sampled: 10/26/16 9:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	16:39	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	16:39	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	16:39	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	16:39	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	16:39	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL	11/9/16	9187	11/9/16	16:39	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	16:39	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	16:39	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	16:39	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	16:39	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	16:39	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	16:39	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	16:39	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	16:39	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	16:39	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	16:39	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	16:39	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	16:39	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**56**	21-100	%	1	CL	11/9/16	9187	11/9/16	16:39	SW3546/8270D
phenol-D5 SUR	**52**	10-102	%	1	CL	11/9/16	9187	11/9/16	16:39	SW3546/8270D
2,4,6-tribromophenol SUR	**29**	10-123	%	1	CL	11/9/16	9187	11/9/16	16:39	SW3546/8270D
nitrobenzene-D5 SUR	**55**	35-114	%	1	CL	11/9/16	9187	11/9/16	16:39	SW3546/8270D
2-fluorobiphenyl SUR	**56**	43-116	%	1	CL	11/9/16	9187	11/9/16	16:39	SW3546/8270D
p-terphenyl-D14 SUR	**61**	33-141	%	1	CL	11/9/16	9187	11/9/16	16:39	SW3546/8270D

Project ID: Fairpoint Brunswick 3947
Job ID: 38413
Sample#: 38413-006
Sample ID: SU-2-3 (DPSW)
Matrix: Solid
Sampled: 10/26/16 9:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	17:19	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	17:19	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	17:19	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	17:19	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	17:19	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL	11/9/16	9187	11/9/16	17:19	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	17:19	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	17:19	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	17:19	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	17:19	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	17:19	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	17:19	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	17:19	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	17:19	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	17:19	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	17:19	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	17:19	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	17:19	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**56**	21-100	%	1	CL	11/9/16	9187	11/9/16	17:19	SW3546/8270D
phenol-D5 SUR	**53**	10-102	%	1	CL	11/9/16	9187	11/9/16	17:19	SW3546/8270D
2,4,6-tribromophenol SUR	**35**	10-123	%	1	CL	11/9/16	9187	11/9/16	17:19	SW3546/8270D
nitrobenzene-D5 SUR	**53**	35-114	%	1	CL	11/9/16	9187	11/9/16	17:19	SW3546/8270D
2-fluorobiphenyl SUR	**55**	43-116	%	1	CL	11/9/16	9187	11/9/16	17:19	SW3546/8270D
p-terphenyl-D14 SUR	**63**	33-141	%	1	CL	11/9/16	9187	11/9/16	17:19	SW3546/8270D

Project ID: Fairpoint Brunswick 3947
Job ID: 38413
Sample#: 38413-007
Sample ID: SU-3-1 (PYSW)
Matrix: Solid
Sampled: 10/26/16 10:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	17:59	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	17:59	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	17:59	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	17:59	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	17:59	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL	11/9/16	9187	11/9/16	17:59	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	17:59	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	17:59	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	17:59	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	17:59	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	17:59	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	17:59	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	17:59	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	17:59	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	17:59	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	17:59	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	17:59	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	17:59	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**59**	21-100	%	1	CL	11/9/16	9187	11/9/16	17:59	SW3546/8270D
phenol-D5 SUR	**54**	10-102	%	1	CL	11/9/16	9187	11/9/16	17:59	SW3546/8270D
2,4,6-tribromophenol SUR	**34**	10-123	%	1	CL	11/9/16	9187	11/9/16	17:59	SW3546/8270D
nitrobenzene-D5 SUR	**56**	35-114	%	1	CL	11/9/16	9187	11/9/16	17:59	SW3546/8270D
2-fluorobiphenyl SUR	**58**	43-116	%	1	CL	11/9/16	9187	11/9/16	17:59	SW3546/8270D
p-terphenyl-D14 SUR	**70**	33-141	%	1	CL	11/9/16	9187	11/9/16	17:59	SW3546/8270D

Project ID: Fairpoint Brunswick 3947
Job ID: 38413
Sample#: 38413-008
Sample ID: SU-3-2 (PYSW)
Matrix: Solid
Sampled: 10/26/16 10:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	18:38	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	18:38	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	18:38	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	18:38	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	18:38	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL	11/9/16	9187	11/9/16	18:38	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	18:38	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	18:38	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	18:38	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	18:38	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	18:38	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	18:38	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	18:38	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	18:38	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	18:38	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	18:38	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	18:38	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	18:38	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**59**	21-100	%	1	CL	11/9/16	9187	11/9/16	18:38	SW3546/8270D
phenol-D5 SUR	**56**	10-102	%	1	CL	11/9/16	9187	11/9/16	18:38	SW3546/8270D
2,4,6-tribromophenol SUR	**34**	10-123	%	1	CL	11/9/16	9187	11/9/16	18:38	SW3546/8270D
nitrobenzene-D5 SUR	**57**	35-114	%	1	CL	11/9/16	9187	11/9/16	18:38	SW3546/8270D
2-fluorobiphenyl SUR	**61**	43-116	%	1	CL	11/9/16	9187	11/9/16	18:38	SW3546/8270D
p-terphenyl-D14 SUR	**75**	33-141	%	1	CL	11/9/16	9187	11/9/16	18:38	SW3546/8270D

Project ID: Fairpoint Brunswick 3947
Job ID: 38413
Sample#: 38413-009
Sample ID: SU-3-3 (PYSW)
Matrix: Solid
Sampled: 10/26/16 10:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	19:18	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	19:18	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	19:18	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	19:18	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	19:18	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL	11/9/16	9187	11/9/16	19:18	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	19:18	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	19:18	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	19:18	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	19:18	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	19:18	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	19:18	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	19:18	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	19:18	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	19:18	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	19:18	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	19:18	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	19:18	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**64**	21-100	%	1	CL	11/9/16	9187	11/9/16	19:18	SW3546/8270D
phenol-D5 SUR	**60**	10-102	%	1	CL	11/9/16	9187	11/9/16	19:18	SW3546/8270D
2,4,6-tribromophenol SUR	**45**	10-123	%	1	CL	11/9/16	9187	11/9/16	19:18	SW3546/8270D
nitrobenzene-D5 SUR	**61**	35-114	%	1	CL	11/9/16	9187	11/9/16	19:18	SW3546/8270D
2-fluorobiphenyl SUR	**64**	43-116	%	1	CL	11/9/16	9187	11/9/16	19:18	SW3546/8270D
p-terphenyl-D14 SUR	**73**	33-141	%	1	CL	11/9/16	9187	11/9/16	19:18	SW3546/8270D

Project ID: Fairpoint Brunswick 3947
Job ID: 38413
Sample#: 38413-010
Sample ID: SU-4-1 (PYB)
Matrix: Solid
Sampled: 10/27/16 10:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	19:57	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	19:57	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	19:57	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	19:57	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	19:57	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL	11/9/16	9187	11/9/16	19:57	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	19:57	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	19:57	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	19:57	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	19:57	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	19:57	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	19:57	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	19:57	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	19:57	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	19:57	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	19:57	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	19:57	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	19:57	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**62**	21-100	%	1	CL	11/9/16	9187	11/9/16	19:57	SW3546/8270D
phenol-D5 SUR	**60**	10-102	%	1	CL	11/9/16	9187	11/9/16	19:57	SW3546/8270D
2,4,6-tribromophenol SUR	**33**	10-123	%	1	CL	11/9/16	9187	11/9/16	19:57	SW3546/8270D
nitrobenzene-D5 SUR	**60**	35-114	%	1	CL	11/9/16	9187	11/9/16	19:57	SW3546/8270D
2-fluorobiphenyl SUR	**63**	43-116	%	1	CL	11/9/16	9187	11/9/16	19:57	SW3546/8270D
p-terphenyl-D14 SUR	**77**	33-141	%	1	CL	11/9/16	9187	11/9/16	19:57	SW3546/8270D

Project ID: Fairpoint Brunswick 3947
Job ID: 38413
Sample#: 38413-011
Sample ID: SU-4-2 (PYB)
Matrix: Solid
Sampled: 10/27/16 10:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	20:37	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	20:37	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	20:37	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	20:37	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	20:37	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL	11/9/16	9187	11/9/16	20:37	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	20:37	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	20:37	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	20:37	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	20:37	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	20:37	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	20:37	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	20:37	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	20:37	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	20:37	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	20:37	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	20:37	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	20:37	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**57**	21-100	%	1	CL	11/9/16	9187	11/9/16	20:37	SW3546/8270D
phenol-D5 SUR	**54**	10-102	%	1	CL	11/9/16	9187	11/9/16	20:37	SW3546/8270D
2,4,6-tribromophenol SUR	**33**	10-123	%	1	CL	11/9/16	9187	11/9/16	20:37	SW3546/8270D
nitrobenzene-D5 SUR	**55**	35-114	%	1	CL	11/9/16	9187	11/9/16	20:37	SW3546/8270D
2-fluorobiphenyl SUR	**56**	43-116	%	1	CL	11/9/16	9187	11/9/16	20:37	SW3546/8270D
p-terphenyl-D14 SUR	**69**	33-141	%	1	CL	11/9/16	9187	11/9/16	20:37	SW3546/8270D

Project ID: Fairpoint Brunswick 3947
Job ID: 38413
Sample#: 38413-012
Sample ID: SU-4-3 (PYB)
Matrix: Solid
Sampled: 10/27/16 10:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	21:16	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	21:16	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	21:16	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	21:16	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	21:16	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL	11/9/16	9187	11/9/16	21:16	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	21:16	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	21:16	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	21:16	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	21:16	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	21:16	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	21:16	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	21:16	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	21:16	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	21:16	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	21:16	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	21:16	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	21:16	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**66**	21-100	%	1	CL	11/9/16	9187	11/9/16	21:16	SW3546/8270D
phenol-D5 SUR	**62**	10-102	%	1	CL	11/9/16	9187	11/9/16	21:16	SW3546/8270D
2,4,6-tribromophenol SUR	**43**	10-123	%	1	CL	11/9/16	9187	11/9/16	21:16	SW3546/8270D
nitrobenzene-D5 SUR	**62**	35-114	%	1	CL	11/9/16	9187	11/9/16	21:16	SW3546/8270D
2-fluorobiphenyl SUR	**66**	43-116	%	1	CL	11/9/16	9187	11/9/16	21:16	SW3546/8270D
p-terphenyl-D14 SUR	**79**	33-141	%	1	CL	11/9/16	9187	11/9/16	21:16	SW3546/8270D

Project ID: Fairpoint Brunswick 3947
Job ID: 38413
Sample#: 38413-013
Sample ID: SU-5-1 (PYSW)
Matrix: Solid
Sampled: 10/28/16 12:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	21:55	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	21:55	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	21:55	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	21:55	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	21:55	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL	11/9/16	9187	11/9/16	21:55	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	21:55	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	21:55	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	21:55	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	21:55	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	21:55	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	21:55	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	21:55	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	21:55	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	21:55	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	21:55	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	21:55	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	21:55	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**60**	21-100	%	1	CL	11/9/16	9187	11/9/16	21:55	SW3546/8270D
phenol-D5 SUR	**57**	10-102	%	1	CL	11/9/16	9187	11/9/16	21:55	SW3546/8270D
2,4,6-tribromophenol SUR	**28**	10-123	%	1	CL	11/9/16	9187	11/9/16	21:55	SW3546/8270D
nitrobenzene-D5 SUR	**60**	35-114	%	1	CL	11/9/16	9187	11/9/16	21:55	SW3546/8270D
2-fluorobiphenyl SUR	**63**	43-116	%	1	CL	11/9/16	9187	11/9/16	21:55	SW3546/8270D
p-terphenyl-D14 SUR	**79**	33-141	%	1	CL	11/9/16	9187	11/9/16	21:55	SW3546/8270D

Project ID: Fairpoint Brunswick 3947
Job ID: 38413
Sample#: 38413-014
Sample ID: SU-5-2 (PYSW)
Matrix: Solid
Sampled: 10/28/16 12:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	23:52	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	23:52	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	23:52	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	23:52	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	23:52	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL	11/9/16	9187	11/9/16	23:52	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	23:52	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	23:52	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	23:52	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	23:52	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	23:52	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	23:52	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	23:52	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	23:52	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	23:52	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	23:52	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	23:52	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/9/16	23:52	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**66**	21-100	%	1	CL	11/9/16	9187	11/9/16	23:52	SW3546/8270D
phenol-D5 SUR	**62**	10-102	%	1	CL	11/9/16	9187	11/9/16	23:52	SW3546/8270D
2,4,6-tribromophenol SUR	**36**	10-123	%	1	CL	11/9/16	9187	11/9/16	23:52	SW3546/8270D
nitrobenzene-D5 SUR	**63**	35-114	%	1	CL	11/9/16	9187	11/9/16	23:52	SW3546/8270D
2-fluorobiphenyl SUR	**66**	43-116	%	1	CL	11/9/16	9187	11/9/16	23:52	SW3546/8270D
p-terphenyl-D14 SUR	**88**	33-141	%	1	CL	11/9/16	9187	11/9/16	23:52	SW3546/8270D

Project ID: Fairpoint Brunswick 3947
Job ID: 38413
Sample#: 38413-015
Sample ID: SU-5-3 (PYSW)
Matrix: Solid
Sampled: 10/28/16 12:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	0:31	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	0:31	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	0:31	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	0:31	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	0:31	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL	11/9/16	9187	11/10/16	0:31	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	0:31	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	0:31	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	0:31	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	0:31	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	0:31	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	0:31	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	0:31	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	0:31	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	0:31	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	0:31	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	0:31	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	0:31	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**63**	21-100	%	1	CL	11/9/16	9187	11/10/16	0:31	SW3546/8270D
phenol-D5 SUR	**60**	10-102	%	1	CL	11/9/16	9187	11/10/16	0:31	SW3546/8270D
2,4,6-tribromophenol SUR	**29**	10-123	%	1	CL	11/9/16	9187	11/10/16	0:31	SW3546/8270D
nitrobenzene-D5 SUR	**60**	35-114	%	1	CL	11/9/16	9187	11/10/16	0:31	SW3546/8270D
2-fluorobiphenyl SUR	**64**	43-116	%	1	CL	11/9/16	9187	11/10/16	0:31	SW3546/8270D
p-terphenyl-D14 SUR	**82**	33-141	%	1	CL	11/9/16	9187	11/10/16	0:31	SW3546/8270D

Project ID: Fairpoint Brunswick 3947

Job ID: 38413

Sample#: 38413-001

Sample ID: SU-1-1 (DPB)

Matrix: Solid

Sampled: 10/26/16 8:40

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Arsenic	< 2.5	2.5	ug/g	5	AM	11/8/16	9185	11/15/16	19:01	SW3051A6020A
Chromium	< 9.8 *	9.8	ug/g	10	AM	11/8/16	9185	11/17/16	20:10	SW3051A6020A
Copper	< 9.8 *	9.8	ug/g	10	AM	11/8/16	9185	11/17/16	20:10	SW3051A6020A

* Dilution was required due to internal standard interference from the matrix.

Sample#: 38413-002

Sample ID: SU-1-2 (DPB)

Matrix: Solid

Sampled: 10/26/16 8:40

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Arsenic	< 2.5	2.5	ug/g	5	AM	11/8/16	9185	11/15/16	19:08	SW3051A6020A
Chromium	< 10 *	10	ug/g	10	AM	11/8/16	9185	11/17/16	20:16	SW3051A6020A
Copper	< 10 *	10	ug/g	10	AM	11/8/16	9185	11/17/16	20:16	SW3051A6020A

* Dilution was required due to internal standard interference from the matrix.

Sample#: 38413-003

Sample ID: SU-1-3 (DPB)

Matrix: Solid

Sampled: 10/26/16 8:40

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Arsenic	< 2.5	2.5	ug/g	5	AM	11/8/16	9185	11/15/16	19:14	SW3051A6020A
Chromium	< 9.8 *	9.8	ug/g	10	AM	11/8/16	9185	11/17/16	20:22	SW3051A6020A
Copper	< 9.8 *	9.8	ug/g	10	AM	11/8/16	9185	11/17/16	20:22	SW3051A6020A

* Dilution was required due to internal standard interference from the matrix.

Sample#: 38413-004

Sample ID: SU-2-1 (DPSW)

Matrix: Solid

Sampled: 10/26/16 9:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Arsenic	< 2.5	2.5	ug/g	5	AM	11/8/16	9185	11/15/16	19:21	SW3051A6020A
Chromium	**11** *	10	ug/g	10	AM	11/8/16	9185	11/17/16	20:28	SW3051A6020A
Copper	< 10 *	10	ug/g	10	AM	11/8/16	9185	11/17/16	20:28	SW3051A6020A

* Dilution was required due to internal standard interference from the matrix.

Project ID: Fairpoint Brunswick 3947

Job ID: 38413

Sample#: 38413-005

Sample ID: SU-2-2 (DPSW)

Matrix: Solid

Sampled: 10/26/16 9:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Arsenic	< 2.5	2.5	ug/g	5	AM	11/8/16	9185	11/15/16	19:28	SW3051A6020A
Chromium	**11** *	9.8	ug/g	10	AM	11/8/16	9185	11/17/16	20:51	SW3051A6020A
Copper	< 9.8 *	9.8	ug/g	10	AM	11/8/16	9185	11/17/16	20:51	SW3051A6020A

* Dilution was required due to internal standard interference from the matrix.

Sample#: 38413-006

Sample ID: SU-2-3 (DPSW)

Matrix: Solid

Sampled: 10/26/16 9:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Arsenic	**2.5**	2.4	ug/g	5	AM	11/8/16	9185	11/15/16	19:55	SW3051A6020A
Chromium	**10.0** *	9.4	ug/g	10	AM	11/8/16	9185	11/17/16	20:57	SW3051A6020A
Copper	< 9.4 *	9.4	ug/g	10	AM	11/8/16	9185	11/17/16	20:57	SW3051A6020A

* Dilution was required due to internal standard interference from the matrix.

Sample#: 38413-007

Sample ID: SU-3-1 (PYSW)

Matrix: Solid

Sampled: 10/26/16 10:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Arsenic	**3.4**	2.5	ug/g	5	AM	11/8/16	9185	11/15/16	20:09	SW3051A6020A
Chromium	**11** *	9.8	ug/g	10	AM	11/8/16	9185	11/17/16	21:02	SW3051A6020A
Copper	< 9.8 *	9.8	ug/g	10	AM	11/8/16	9185	11/17/16	21:02	SW3051A6020A

* Dilution was required due to internal standard interference from the matrix.

Sample#: 38413-008

Sample ID: SU-3-2 (PYSW)

Matrix: Solid

Sampled: 10/26/16 10:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Arsenic	**3.2**	2.5	ug/g	5	AM	11/8/16	9185	11/15/16	20:15	SW3051A6020A
Chromium	**11** *	9.8	ug/g	10	AM	11/8/16	9185	11/17/16	21:08	SW3051A6020A
Copper	< 9.8 *	9.8	ug/g	10	AM	11/8/16	9185	11/17/16	21:08	SW3051A6020A

* Dilution was required due to internal standard interference from the matrix.

Project ID: Fairpoint Brunswick 3947

Job ID: 38413

Sample#: 38413-009

Sample ID: SU-3-3 (PYSW)

Matrix: Solid

Sampled: 10/26/16 10:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Arsenic	**2.7**	2.5	ug/g	5	AM	11/8/16	9185	11/15/16	20:22	SW3051A6020A
Chromium	< 9.8 *	9.8	ug/g	10	AM	11/8/16	9185	11/17/16	21:14	SW3051A6020A
Copper	< 9.8 *	9.8	ug/g	10	AM	11/8/16	9185	11/17/16	21:14	SW3051A6020A

* Dilution was required due to internal standard interference from the matrix.

Sample#: 38413-010

Sample ID: SU-4-1 (PYB)

Matrix: Solid

Sampled: 10/27/16 10:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Arsenic	< 2.4	2.4	ug/g	5	AM	11/8/16	9185	11/15/16	20:29	SW3051A6020A
Chromium	< 9.4 *	9.4	ug/g	10	AM	11/8/16	9185	11/17/16	21:20	SW3051A6020A
Copper	< 9.4 *	9.4	ug/g	10	AM	11/8/16	9185	11/17/16	21:20	SW3051A6020A

* Dilution was required due to internal standard interference from the matrix.

Sample#: 38413-011

Sample ID: SU-4-2 (PYB)

Matrix: Solid

Sampled: 10/27/16 10:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Arsenic	< 2.4	2.4	ug/g	5	AM	11/8/16	9185	11/15/16	20:36	SW3051A6020A
Chromium	< 9.6 *	9.6	ug/g	10	AM	11/8/16	9185	11/17/16	21:26	SW3051A6020A
Copper	< 9.6 *	9.6	ug/g	10	AM	11/8/16	9185	11/17/16	21:26	SW3051A6020A

* Dilution was required due to internal standard interference from the matrix.

Sample#: 38413-012

Sample ID: SU-4-3 (PYB)

Matrix: Solid

Sampled: 10/27/16 10:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Arsenic	< 2.3	2.3	ug/g	5	AM	11/8/16	9185	11/15/16	20:43	SW3051A6020A
Chromium	< 9.3 *	9.3	ug/g	10	AM	11/8/16	9185	11/17/16	21:32	SW3051A6020A
Copper	< 9.3 *	9.3	ug/g	10	AM	11/8/16	9185	11/17/16	21:32	SW3051A6020A

* Dilution was required due to internal standard interference from the matrix.

Project ID: Fairpoint Brunswick 3947

Job ID: 38413

Sample#: 38413-013

Sample ID: SU-5-1 (PYSW)

Matrix: Solid

Sampled: 10/28/16 12:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Arsenic	**3.2**	2.4	ug/g	5	AM	11/8/16	9185	11/15/16	20:50	SW3051A6020A
Chromium	**11** *	9.6	ug/g	10	AM	11/8/16	9185	11/17/16	21:37	SW3051A6020A
Copper	< 9.6 *	9.6	ug/g	10	AM	11/8/16	9185	11/17/16	21:37	SW3051A6020A

* Dilution was required due to internal standard interference from the matrix.

Sample#: 38413-014

Sample ID: SU-5-2 (PYSW)

Matrix: Solid

Sampled: 10/28/16 12:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Arsenic	**3.4**	2.5	ug/g	5	AM	11/8/16	9185	11/15/16	20:56	SW3051A6020A
Chromium	**12** *	10	ug/g	10	AM	11/8/16	9185	11/17/16	21:43	SW3051A6020A
Copper	**10** *	10	ug/g	10	AM	11/8/16	9185	11/17/16	21:43	SW3051A6020A

* Dilution was required due to internal standard interference from the matrix.

Sample#: 38413-015

Sample ID: SU-5-3 (PYSW)

Matrix: Solid

Sampled: 10/28/16 12:30

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Arsenic	**3.4**	2.4	ug/g	5	AM	11/8/16	9185	11/15/16	21:23	SW3051A6020A
Chromium	**12** *	9.6	ug/g	10	AM	11/8/16	9185	11/17/16	22:06	SW3051A6020A
Copper	< 9.6 *	9.6	ug/g	10	AM	11/8/16	9185	11/17/16	22:06	SW3051A6020A

* Dilution was required due to internal standard interference from the matrix.

Sample Readiness Procedure Log

ARA SOP Ref. QA-801

Absolute Resource associates

Date	Init.	Readiness Procedure	Comments
10/26/16	CL	Filtered DOC samples with 0.45µm filter lot # 60507103	Filter blank 38304-06 -07
11/3/16	Am / gd	Sample Drying overnight	38414-01 through 38414-12 38413-01 through 38413-15 Dried in Hoods
11/4/16	Am	Sample Sieving to 2mm size	38414-01 through 38414-12 (Am 11/4) 38413-01 through 38413-15 Bowl + Sieve cleaned as follows Soap + water, DI, 10% HNO_3 Bath (5min), Tap, DI
11/7/16		Incremental Sampling	Sample spread out onto an aluminum cooking sheet evenly. ±2g scooped 40 times across the whole sheet to give a total weight of 80g
11/7/16			38413-01-80.20g -02-80.06g -03-80.46g -04-80.04g -05-80.03g -06-80.28g 38413-07-80.16g -08-80.43g -09-80.27g -10-80.17g -11-80.25g
11/7/16	Am		38413-12-80.15g -13-80.35g -14-80.44g -15-80.40g 38414-01-80.14g 38414-02-80.20g -03-80.20g -04-80.23g -05-80.24g -06-80.07g -07-80.21g

QSD-134 4/25/11 Rev0 AJD (pg 1/1)

Sample Readiness Procedure Log

ARA SOP Ref. QA-801

Absolute Resource Associates

Date	Init.	Readiness Procedure	Comments
11/7/16	[illegible]	Incremental Sampling	38414-08 - 80.09g -09 - 80.33g -10 - 80.13g -11 - 80.33g -12 - 80.14g I-org IS used for all weights
11-7-16	[illegible]	put ~10g solid into 10mL MeOH for preservation & Analysis.	for Samples 38452-01 10.76g -02 10.51g
11/15/16	[illegible]	Filtered Chlorophyll Samples	Balance I-ORG IS 38336-01 300 mLs -07 300 mLs -02 300 mLs -08 300 mLs -03 450 mLs -04 200 mLs -04 350 mLs -10 300 mLs -05 350 mLs -11 700 mLs -06 400 mLs Filter Lot # RGHA66306

QSD-134 4/25/11 Rev0 AJD (pg 1/1)

Absolute Resource associates
124 Heritage Avenue #16
Portsmouth, NH 03801
603-436-2001
absoluteresourceassociates.com

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

38413

Company Name: St. Germain Collins
Company Address: 946 main St. Westbrook, ME
Report To: Brian Buchmann
Phone #: 1-207-591-7000
Invoice to Email: salloccia@fairpoint.com
☐ Hard Copy Invoice Required

Project Name: Fairpoint Brunswick
Project #: 3947
Project Location: NH MA (ME) VT NY ____ Other
Protocol: RCRA SDWA NPDES MCP NHDES (OTHER)
Reporting Limits: QAPP GW-1 S-1 EPA DW Other RAGS
Quote #____ ☐ NH Reimbursement Pricing
PO # ____

ANALYSIS REQUEST

☐ VOC 8260 ☐ VOC 8260 NHDES ☐ VOC 8260 MADEP
☐ VOC 624 ☐ VOC BTEX ☐ MtBE, only ☐ VOC 8021VT
☐ VPH MADEP ☐ MEGRO ☐ GRO 8015 ☐ 1,4-Dioxane
☐ VOC 524.2 ☐ VOC 524.2 NH List ☐ Gases-List:
☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint
☒ 8270PAH ☐ 8270ABN ☐ 625 ☐ EDB
☐ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB
☐ O&G 1664 ☐ Mineral O&G SM5520F
☐ pH ☐ BOD ☐ Conductivity ☐ Turbidity
☐ TSS ☐ TDS ☐ TS ☐ TVS ☐ Alkalinity
☐ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals ☐ Hardness
☑ Total Metals-list: CCA
☐ Dissolved Metals-list:
☐ Ammonia ☐ COD ☐ TKN ☐ TN ☐ TON ☐ TOC
☐ T-Phosphorus ☐ Phenols ☐ Bacteria P/A ☐ Bacteria MPN
☐ Cyanide ☐ Sulfide ☐ Nitrate + Nitrite ☐ Ortho P
☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☐ Bromide ☐ Fluoride
☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP
☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC ☐ TCLP Pesticide
Subcontract: ☐ Grain Size ☐ Herbicides ☐ Formaldehyde
ISM prep
Dioxin (Pace)
PCP
Grab (G) or Composite (C)

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix: WATER	SOLID	OTHER	Preservation Method: HCl	HNO_3	H_2SO_4	NaOH	MeOH	Sampling: DATE	TIME	SAMPLER
384301	SO-1-1 (DPB)	1		X							10/26/16	0840	BB
02	SO-1-2 (DPB)	1		X							10/26/16	0840	BB
03	SO-1-3 (DPB)	1		X							10/26/16	0840	BB
04	SO-2-1 (DPSW)	1		X							10/26/16	0900	BB
05	SO-2-2 (DPSW)	1		X							10/26/16	0900	BB
06	SO-2-3 (DPSW)	1		X							10/26/16	0900	BB
07	SO-3-1 (PJSW)	1		X							10/26/16	1000	BB
08	SO-3-2 (PJSW)	1		X							10/26/16	1000	BB
09	SO-3-3 (PJSW)	1		X							10/26/16	1000	BB
10	SO-4-1 (PJB)	1		X							10/27/16	1000	BB
11	SO-4-2 (PJB)	1		X							10/27/16	1000	BB

TAT REQUESTED
Priority (24 hr)* ☐
Expedited (48 hr)* ☐
Standard (10 Business Days) ☒
*Date Needed ____

See absoluteresourceassociates.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS
Dioxin analysis Completed @ Pace.

REPORTING INSTRUCTIONS ☒ PDF (e-mail address) brianb@stgermaincollins.com
☐ HARD COPY REQUIRED ☐ FAX (FAX#)____

RECEIVED ON ICE ☒ YES ☐ NO
TEMPERATURE 0 °C

CUSTODY RECORD
QSD-01 Revision 10/14/15

		Date	Time		Date	Time
Relinquished by Sampler:	Brian Buchmann	10/28/16	1700	Received by:	Cold Storage	10/28/16	1700
Relinquished by:	Cold Storage	11/2/16	1446	Received by:		11/2/16	14:46
Relinquished by:		11/2/16	16:15	Received by Laboratory:		11/2/16	1615

Absolute Resource associates
124 Heritage Avenue #16
Portsmouth, NH 03801
603-436-2001
absoluteresourceassociates.com

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Company Name: St. Germain Collins
Company Address: 846 Main St. Westbrook, ME
Report To: Brian Buchmann
Phone #: 1-207-591-7000
Invoice to Email: salbocca@fairpoint.com
☐ Hard Copy Invoice Required

Project Name: Fairpoint Brunswick
Project #: 3947
Project Location: NH MA (ME) VT NY ____ Other
Protocol: RCRA SDWA NPDES MCP NHDES (OTHER)
Reporting Limits: QAPP GW-1 S-1 EPA DW Other RAGS
Quote # ____ ☐ NH Reimbursement Pricing
PO # ____

ANALYSIS REQUEST

☐ VOC 8260 ☐ VOC 8260 NHDES ☐ VOC 8260 MADEP
☐ VOC 624 ☐ VOC BTEX ☐ MtBE, only ☐ VOC 8021VT
☐ VPH MADEP ☐ MEGRO ☐ GRO 8015 ☐ 1,4-Dioxane
☐ VOC 524.2 ☐ VOC 524.2 NH List ☐ Gases-List:
☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint
☒ 8270PAH ☐ 8270ABN ☐ 625 ☐ EDB
☐ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB
☐ O&G 1664 ☐ Mineral O&G SM5520F
☐ pH ☐ BOD ☐ Conductivity ☐ Turbidity
☐ TSS ☐ TDS ☐ TS ☐ TVS ☐ Alkalinity
☐ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals ☐ Hardness
☒ Total Metals-list: CCA
☐ Dissolved Metals-list:
☐ Ammonia ☐ COD ☐ TKN ☐ TN ☐ TON ☐ TOC
☐ T-Phosphorus ☐ Phenols ☐ Bacteria P/A ☐ Bacteria MPN
☐ Cyanide ☐ Sulfide ☐ Nitrate + Nitrite ☐ Ortho P
☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☐ Bromide ☐ Fluoride
☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP
☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC ☐ TCLP Pesticide
Subcontract: ☐ Grain Size ☐ Herbicides ☐ Formaldehyde
TSM prep
Dioxin (Pure)
TCLP
Grab (G) or Composite (C)

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix: WATER	SOLID	OTHER	Preservation Method: HCl	HNO_3	H_2SO_4	NaOH	MeOH	Sampling: DATE	TIME	SAMPLER	8270PAH	Total Metals-list: CCA	TSM prep	Dioxin (Pure)	TCLP	Grab (G) or Composite (C)
30113-12	SO-4-3(PPB)	1		X							10/27/16	1000	BJB	X	X	X	X	X	C
-13	SO-5-1(PPSW)										10/28/16	1230	BJB	X	X	X	X	X	G
-14	SO-5-2(PPSW)										10/28/16	1230	BJB	X	X	X	X	X	C
-15	SO-5-3(PPSW)										10/28/16	1230	BB	X	X	X	X	X	C

Brian Buchmann

TAT REQUESTED
Priority (24 hr)* ☐
Expedited (48 hr)* ☐
Standard (10 Business Days) ☐
*Date Needed ____

See absoluteresourceassociates.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS ☐ PDF (e-mail address)____
☐ HARD COPY REQUIRED ☐ FAX (FAX#)____

RECEIVED ON ICE ☒ YES ☐ NO
TEMPERATURE 2.5 °C

CUSTODY RECORD
QSD-01 Revision 10/14/15

	Relinquished by Sampler:	Date	Time	Received by:	Date	Time
	Relinquished by:	Date	Time	Received by:	11/2/16	14:46
	Relinquished by:	11/2/16	16:15	Received by Laboratory:	11/2/16	1615

Laboratory Report

Absolute Resource associates
124 Heritage Avenue Portsmouth NH 03801

Brian Bachmann
St.Germain & Associates, Inc.
846 Main St.
Suite 3
Westbrook, ME 04092

PO Number: None
Job ID: 38414
Date Received: 11/2/16

Project: Fairpoint Brunswick 3947

Attached please find results for the analysis of the samples received on the date referenced above.

As requested by the customer, samples were air dried, sieved, and subjected to incremental sampling, prior to analysis.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Absolute Resource Associates maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Absolute Resource Associates

(for)

Sue Sylvester
Principal, General Manager

Date of Approval: 11/21/2016
Total number of pages: 20

Absolute Resource Associates Certifications

New Hampshire	1732	Massachusetts	M-NH902
Maine	NH903		

Project ID: Fairpoint Brunswick 3947
Job ID: 38414
Sample#: 38414-001
Sample ID: SU-6-1 (PYB)
Matrix: Solid
Sampled: 10/28/16 13:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	1:10	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	1:10	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	1:10	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	1:10	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	1:10	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL	11/9/16	9187	11/10/16	1:10	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	1:10	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	1:10	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	1:10	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	1:10	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	1:10	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	1:10	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	1:10	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	1:10	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	1:10	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	1:10	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	1:10	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	1:10	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**65**	21-100	%	1	CL	11/9/16	9187	11/10/16	1:10	SW3546/8270D
phenol-D5 SUR	**60**	10-102	%	1	CL	11/9/16	9187	11/10/16	1:10	SW3546/8270D
2,4,6-tribromophenol SUR	**40**	10-123	%	1	CL	11/9/16	9187	11/10/16	1:10	SW3546/8270D
nitrobenzene-D5 SUR	**60**	35-114	%	1	CL	11/9/16	9187	11/10/16	1:10	SW3546/8270D
2-fluorobiphenyl SUR	**63**	43-116	%	1	CL	11/9/16	9187	11/10/16	1:10	SW3546/8270D
p-terphenyl-D14 SUR	**79**	33-141	%	1	CL	11/9/16	9187	11/10/16	1:10	SW3546/8270D

Project ID: Fairpoint Brunswick 3947
Job ID: 38414
Sample#: 38414-002
Sample ID: SU-6-2 (PYB)
Matrix: Solid
Sampled: 10/28/16 13:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	1:49	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	1:49	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	1:49	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	1:49	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	1:49	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL	11/9/16	9187	11/10/16	1:49	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	1:49	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	1:49	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	1:49	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	1:49	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	1:49	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	1:49	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	1:49	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	1:49	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	1:49	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	1:49	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	1:49	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9187	11/10/16	1:49	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**63**	21-100	%	1	CL	11/9/16	9187	11/10/16	1:49	SW3546/8270D
phenol-D5 SUR	**59**	10-102	%	1	CL	11/9/16	9187	11/10/16	1:49	SW3546/8270D
2,4,6-tribromophenol SUR	**38**	10-123	%	1	CL	11/9/16	9187	11/10/16	1:49	SW3546/8270D
nitrobenzene-D5 SUR	**59**	35-114	%	1	CL	11/9/16	9187	11/10/16	1:49	SW3546/8270D
2-fluorobiphenyl SUR	**62**	43-116	%	1	CL	11/9/16	9187	11/10/16	1:49	SW3546/8270D
p-terphenyl-D14 SUR	**83**	33-141	%	1	CL	11/9/16	9187	11/10/16	1:49	SW3546/8270D

Project ID: Fairpoint Brunswick 3947
Job ID: 38414
Sample#: 38414-003
Sample ID: SU-6-3 (PYB)
Matrix: Solid
Sampled: 10/28/16 13:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	15:28	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	15:28	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	15:28	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	15:28	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	15:28	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL	11/9/16	9188	11/10/16	15:28	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	15:28	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	15:28	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	15:28	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	15:28	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	15:28	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	15:28	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	15:28	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	15:28	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	15:28	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	15:28	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	15:28	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	15:28	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**57**	21-100	%	1	CL	11/9/16	9188	11/10/16	15:28	SW3546/8270D
phenol-D5 SUR	**58**	10-102	%	1	CL	11/9/16	9188	11/10/16	15:28	SW3546/8270D
2,4,6-tribromophenol SUR	**33**	10-123	%	1	CL	11/9/16	9188	11/10/16	15:28	SW3546/8270D
nitrobenzene-D5 SUR	**56**	35-114	%	1	CL	11/9/16	9188	11/10/16	15:28	SW3546/8270D
2-fluorobiphenyl SUR	**59**	43-116	%	1	CL	11/9/16	9188	11/10/16	15:28	SW3546/8270D
p-terphenyl-D14 SUR	**71**	33-141	%	1	CL	11/9/16	9188	11/10/16	15:28	SW3546/8270D

Project ID: Fairpoint Brunswick 3947
Job ID: 38414
Sample#: 38414-004
Sample ID: SU-7-1 (PYSW)
Matrix: Solid
Sampled: 10/28/16 15:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	16:08	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	16:08	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	16:08	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	16:08	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	16:08	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL	11/9/16	9188	11/10/16	16:08	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	16:08	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	16:08	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	16:08	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	16:08	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	16:08	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	16:08	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	16:08	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	16:08	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	16:08	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	16:08	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	16:08	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	16:08	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**41**	21-100	%	1	CL	11/9/16	9188	11/10/16	16:08	SW3546/8270D
phenol-D5 SUR	**38**	10-102	%	1	CL	11/9/16	9188	11/10/16	16:08	SW3546/8270D
2,4,6-tribromophenol SUR	**24**	10-123	%	1	CL	11/9/16	9188	11/10/16	16:08	SW3546/8270D
nitrobenzene-D5 SUR	**45**	35-114	%	1	CL	11/9/16	9188	11/10/16	16:08	SW3546/8270D
2-fluorobiphenyl SUR	**46**	43-116	%	1	CL	11/9/16	9188	11/10/16	16:08	SW3546/8270D
p-terphenyl-D14 SUR	**59**	33-141	%	1	CL	11/9/16	9188	11/10/16	16:08	SW3546/8270D

Project ID: Fairpoint Brunswick 3947
Job ID: 38414
Sample#: 38414-005
Sample ID: SU-7-2 (PYSW)
Matrix: Solid
Sampled: 10/28/16 15:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	16:48	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	16:48	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	16:48	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	16:48	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	16:48	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL	11/9/16	9188	11/10/16	16:48	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	16:48	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	16:48	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	16:48	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	16:48	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	16:48	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	16:48	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	16:48	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	16:48	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	16:48	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	16:48	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	16:48	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	16:48	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**49**	21-100	%	1	CL	11/9/16	9188	11/10/16	16:48	SW3546/8270D
phenol-D5 SUR	**46**	10-102	%	1	CL	11/9/16	9188	11/10/16	16:48	SW3546/8270D
2,4,6-tribromophenol SUR	**27**	10-123	%	1	CL	11/9/16	9188	11/10/16	16:48	SW3546/8270D
nitrobenzene-D5 SUR	**50**	35-114	%	1	CL	11/9/16	9188	11/10/16	16:48	SW3546/8270D
2-fluorobiphenyl SUR	**51**	43-116	%	1	CL	11/9/16	9188	11/10/16	16:48	SW3546/8270D
p-terphenyl-D14 SUR	**62**	33-141	%	1	CL	11/9/16	9188	11/10/16	16:48	SW3546/8270D

Project ID: Fairpoint Brunswick 3947
Job ID: 38414
Sample#: 38414-006
Sample ID: SU-7-3 (PYSW)
Matrix: Solid
Sampled: 10/28/16 15:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	17:27	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	17:27	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	17:27	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	17:27	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	17:27	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL	11/9/16	9188	11/10/16	17:27	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	17:27	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	17:27	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	17:27	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	17:27	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	17:27	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	17:27	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	17:27	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	17:27	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	17:27	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	17:27	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	17:27	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	17:27	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**52**	21-100	%	1	CL	11/9/16	9188	11/10/16	17:27	SW3546/8270D
phenol-D5 SUR	**50**	10-102	%	1	CL	11/9/16	9188	11/10/16	17:27	SW3546/8270D
2,4,6-tribromophenol SUR	**30**	10-123	%	1	CL	11/9/16	9188	11/10/16	17:27	SW3546/8270D
nitrobenzene-D5 SUR	**52**	35-114	%	1	CL	11/9/16	9188	11/10/16	17:27	SW3546/8270D
2-fluorobiphenyl SUR	**55**	43-116	%	1	CL	11/9/16	9188	11/10/16	17:27	SW3546/8270D
p-terphenyl-D14 SUR	**68**	33-141	%	1	CL	11/9/16	9188	11/10/16	17:27	SW3546/8270D

Project ID: Fairpoint Brunswick 3947
Job ID: 38414
Sample#: 38414-007
Sample ID: SU-8-1 (PYSW)
Matrix: Solid
Sampled: 10/28/16 15:10

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	12:58	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	12:58	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	12:58	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	12:58	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	12:58	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL	11/9/16	9188	11/11/16	12:58	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	12:58	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	12:58	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	12:58	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	12:58	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	12:58	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	12:58	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	12:58	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	12:58	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	12:58	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	12:58	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	12:58	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	12:58	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**41**	21-100	%	1	CL	11/9/16	9188	11/11/16	12:58	SW3546/8270D
phenol-D5 SUR	**34**	10-102	%	1	CL	11/9/16	9188	11/11/16	12:58	SW3546/8270D
2,4,6-tribromophenol SUR	**17**	10-123	%	1	CL	11/9/16	9188	11/11/16	12:58	SW3546/8270D
nitrobenzene-D5 SUR	**46**	35-114	%	1	CL	11/9/16	9188	11/11/16	12:58	SW3546/8270D
2-fluorobiphenyl SUR	**47**	43-116	%	1	CL	11/9/16	9188	11/11/16	12:58	SW3546/8270D
p-terphenyl-D14 SUR	**55**	33-141	%	1	CL	11/9/16	9188	11/11/16	12:58	SW3546/8270D

Project ID: Fairpoint Brunswick 3947
Job ID: 38414
Sample#: 38414-008
Sample ID: SU-8-2 (PYSW)
Matrix: Solid
Sampled: 10/28/16 15:10

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	18:46	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	18:46	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	18:46	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	18:46	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	18:46	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL	11/9/16	9188	11/10/16	18:46	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	18:46	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	18:46	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	18:46	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	18:46	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	18:46	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	18:46	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	18:46	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	18:46	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	18:46	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	18:46	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	18:46	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/10/16	18:46	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**50**	21-100	%	1	CL	11/9/16	9188	11/10/16	18:46	SW3546/8270D
phenol-D5 SUR	**44**	10-102	%	1	CL	11/9/16	9188	11/10/16	18:46	SW3546/8270D
2,4,6-tribromophenol SUR	**25**	10-123	%	1	CL	11/9/16	9188	11/10/16	18:46	SW3546/8270D
nitrobenzene-D5 SUR	**48**	35-114	%	1	CL	11/9/16	9188	11/10/16	18:46	SW3546/8270D
2-fluorobiphenyl SUR	**52**	43-116	%	1	CL	11/9/16	9188	11/10/16	18:46	SW3546/8270D
p-terphenyl-D14 SUR	**64**	33-141	%	1	CL	11/9/16	9188	11/10/16	18:46	SW3546/8270D

Project ID: Fairpoint Brunswick 3947
Job ID: 38414
Sample#: 38414-009
Sample ID: SU-8-3 (PYSW)
Matrix: Solid
Sampled: 10/28/16 15:10

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	13:37	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	13:37	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	13:37	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	13:37	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	13:37	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL	11/9/16	9188	11/11/16	13:37	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	13:37	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	13:37	SW3546/8270D
fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	13:37	SW3546/8270D
pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	13:37	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	13:37	SW3546/8270D
chrysene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	13:37	SW3546/8270D
benzo(b)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	13:37	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	13:37	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	13:37	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	13:37	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	13:37	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	13:37	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**51**	21-100	%	1	CL	11/9/16	9188	11/11/16	13:37	SW3546/8270D
phenol-D5 SUR	**46**	10-102	%	1	CL	11/9/16	9188	11/11/16	13:37	SW3546/8270D
2,4,6-tribromophenol SUR	**28**	10-123	%	1	CL	11/9/16	9188	11/11/16	13:37	SW3546/8270D
nitrobenzene-D5 SUR	**53**	35-114	%	1	CL	11/9/16	9188	11/11/16	13:37	SW3546/8270D
2-fluorobiphenyl SUR	**56**	43-116	%	1	CL	11/9/16	9188	11/11/16	13:37	SW3546/8270D
p-terphenyl-D14 SUR	**64**	33-141	%	1	CL	11/9/16	9188	11/11/16	13:37	SW3546/8270D

Project ID: Fairpoint Brunswick 3947
Job ID: 38414
Sample#: 38414-010
Sample ID: SU-9-1 (DPSW)
Matrix: Solid
Sampled: 10/28/16 14:20

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	14:17	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	14:17	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	14:17	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	14:17	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	14:17	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL	11/9/16	9188	11/11/16	14:17	SW3546/8270D
phenanthrene	**0.20**	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	14:17	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	14:17	SW3546/8270D
fluoranthene	**0.26**	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	14:17	SW3546/8270D
pyrene	**0.27**	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	14:17	SW3546/8270D
benzo(a)anthracene	**0.15**	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	14:17	SW3546/8270D
chrysene	**0.21**	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	14:17	SW3546/8270D
benzo(b)fluoranthene	**0.16**	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	14:17	SW3546/8270D
benzo(k)fluoranthene	**0.17**	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	14:17	SW3546/8270D
benzo(a)pyrene	**0.15**	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	14:17	SW3546/8270D
indeno(1,2,3-cd)pyrene	**0.09**	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	14:17	SW3546/8270D
dibenzo(a,h)anthracene	**0.05**	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	14:17	SW3546/8270D
benzo(g,h,i)perylene	**0.11**	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	14:17	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**52**	21-100	%	1	CL	11/9/16	9188	11/11/16	14:17	SW3546/8270D
phenol-D5 SUR	**50**	10-102	%	1	CL	11/9/16	9188	11/11/16	14:17	SW3546/8270D
2,4,6-tribromophenol SUR	**40**	10-123	%	1	CL	11/9/16	9188	11/11/16	14:17	SW3546/8270D
nitrobenzene-D5 SUR	**50**	35-114	%	1	CL	11/9/16	9188	11/11/16	14:17	SW3546/8270D
2-fluorobiphenyl SUR	**56**	43-116	%	1	CL	11/9/16	9188	11/11/16	14:17	SW3546/8270D
p-terphenyl-D14 SUR	**64**	33-141	%	1	CL	11/9/16	9188	11/11/16	14:17	SW3546/8270D

Project ID: Fairpoint Brunswick 3947
Job ID: 38414
Sample#: 38414-011
Sample ID: SU-9-2 (DPSW)
Matrix: Solid
Sampled: 10/28/16 14:20

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	14:57	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	14:57	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	14:57	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	14:57	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	14:57	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL	11/9/16	9188	11/11/16	14:57	SW3546/8270D
phenanthrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	14:57	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	14:57	SW3546/8270D
fluoranthene	**0.08**	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	14:57	SW3546/8270D
pyrene	**0.09**	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	14:57	SW3546/8270D
benzo(a)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	14:57	SW3546/8270D
chrysene	**0.08**	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	14:57	SW3546/8270D
benzo(b)fluoranthene	**0.07**	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	14:57	SW3546/8270D
benzo(k)fluoranthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	14:57	SW3546/8270D
benzo(a)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	14:57	SW3546/8270D
indeno(1,2,3-cd)pyrene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	14:57	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	14:57	SW3546/8270D
benzo(g,h,i)perylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	14:57	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**46**	21-100	%	1	CL	11/9/16	9188	11/11/16	14:57	SW3546/8270D
phenol-D5 SUR	**40**	10-102	%	1	CL	11/9/16	9188	11/11/16	14:57	SW3546/8270D
2,4,6-tribromophenol SUR	**28**	10-123	%	1	CL	11/9/16	9188	11/11/16	14:57	SW3546/8270D
nitrobenzene-D5 SUR	**49**	35-114	%	1	CL	11/9/16	9188	11/11/16	14:57	SW3546/8270D
2-fluorobiphenyl SUR	**50**	43-116	%	1	CL	11/9/16	9188	11/11/16	14:57	SW3546/8270D
p-terphenyl-D14 SUR	**57**	33-141	%	1	CL	11/9/16	9188	11/11/16	14:57	SW3546/8270D

Project ID: Fairpoint Brunswick 3947
Job ID: 38414
Sample#: 38414-012
Sample ID: SU-9-3 (DPSW)
Matrix: Solid
Sampled: 10/28/16 14:20

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
naphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	15:37	SW3546/8270D
2-methylnaphthalene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	15:37	SW3546/8270D
acenaphthylene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	15:37	SW3546/8270D
acenaphthene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	15:37	SW3546/8270D
fluorene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	15:37	SW3546/8270D
pentachlorophenol	< 1	1	ug/g	1	CL	11/9/16	9188	11/11/16	15:37	SW3546/8270D
phenanthrene	**0.13**	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	15:37	SW3546/8270D
anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	15:37	SW3546/8270D
fluoranthene	**0.23**	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	15:37	SW3546/8270D
pyrene	**0.22**	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	15:37	SW3546/8270D
benzo(a)anthracene	**0.11**	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	15:37	SW3546/8270D
chrysene	**0.15**	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	15:37	SW3546/8270D
benzo(b)fluoranthene	**0.11**	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	15:37	SW3546/8270D
benzo(k)fluoranthene	**0.13**	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	15:37	SW3546/8270D
benzo(a)pyrene	**0.10**	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	15:37	SW3546/8270D
indeno(1,2,3-cd)pyrene	**0.06**	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	15:37	SW3546/8270D
dibenzo(a,h)anthracene	< 0.05	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	15:37	SW3546/8270D
benzo(g,h,i)perylene	**0.07**	0.05	ug/g	1	CL	11/9/16	9188	11/11/16	15:37	SW3546/8270D
Surrogate Recovery		**Limits**								
2-fluorophenol SUR	**45**	21-100	%	1	CL	11/9/16	9188	11/11/16	15:37	SW3546/8270D
phenol-D5 SUR	**42**	10-102	%	1	CL	11/9/16	9188	11/11/16	15:37	SW3546/8270D
2,4,6-tribromophenol SUR	**29**	10-123	%	1	CL	11/9/16	9188	11/11/16	15:37	SW3546/8270D
nitrobenzene-D5 SUR	**46**	35-114	%	1	CL	11/9/16	9188	11/11/16	15:37	SW3546/8270D
2-fluorobiphenyl SUR	**49**	43-116	%	1	CL	11/9/16	9188	11/11/16	15:37	SW3546/8270D
p-terphenyl-D14 SUR	**53**	33-141	%	1	CL	11/9/16	9188	11/11/16	15:37	SW3546/8270D

Project ID: Fairpoint Brunswick 3947

Job ID: 38414

Sample#: 38414-001

Sample ID: SU-6-1 (PYB)

Matrix: Solid

Sampled: 10/28/16 13:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Arsenic	< 2.3	2.3	ug/g	5	AM	11/8/16	9185	11/15/16	21:30	SW3051A6020A
Chromium	< 9.3 *	9.3	ug/g	10	AM	11/8/16	9185	11/17/16	22:12	SW3051A6020A
Copper	< 9.3 *	9.3	ug/g	10	AM	11/8/16	9185	11/17/16	22:12	SW3051A6020A

* Dilution was required due to internal standard interference from the matrix.

Sample#: 38414-002

Sample ID: SU-6-2 (PYB)

Matrix: Solid

Sampled: 10/28/16 13:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Arsenic	< 2.4	2.4	ug/g	5	AM	11/8/16	9185	11/15/16	21:37	SW3051A6020A
Chromium	< 9.6 *	9.6	ug/g	10	AM	11/8/16	9185	11/17/16	22:18	SW3051A6020A
Copper	< 9.6 *	9.6	ug/g	10	AM	11/8/16	9185	11/17/16	22:18	SW3051A6020A

* Dilution was required due to internal standard interference from the matrix.

Sample#: 38414-003

Sample ID: SU-6-3 (PYB)

Matrix: Solid

Sampled: 10/28/16 13:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Arsenic	< 2.5	2.5	ug/g	5	AM	11/15/16	9199	11/15/16	21:44	SW3051A6020A
Chromium	< 10 *	10	ug/g	10	AM	11/15/16	9199	11/17/16	22:24	SW3051A6020A
Copper	< 10 *	10	ug/g	10	AM	11/15/16	9199	11/17/16	22:24	SW3051A6020A

* Dilution was required due to internal standard interference from the matrix.

Sample#: 38414-004

Sample ID: SU-7-1 (PYSW)

Matrix: Solid

Sampled: 10/28/16 15:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Arsenic	< 2.5	2.5	ug/g	5	AM	11/15/16	9199	11/15/16	21:50	SW3051A6020A
Chromium	< 9.8 *	9.8	ug/g	10	AM	11/15/16	9199	11/17/16	22:30	SW3051A6020A
Copper	< 9.8 *	9.8	ug/g	10	AM	11/15/16	9199	11/17/16	22:30	SW3051A6020A

* Dilution was required due to internal standard interference from the matrix.

Project ID: Fairpoint Brunswick 3947

Job ID: 38414

Sample#: 38414-005

Sample ID: SU-7-2 (PYSW)

Matrix: Solid

Sampled: 10/28/16 15:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Arsenic	< 2.4	2.4	ug/g	5	AM	11/15/16	9199	11/15/16	21:57	SW3051A6020A
Chromium	< 9.6 *	9.6	ug/g	10	AM	11/15/16	9199	11/17/16	22:36	SW3051A6020A
Copper	< 9.6 *	9.6	ug/g	10	AM	11/15/16	9199	11/17/16	22:36	SW3051A6020A

* Dilution was required due to internal standard interference from the matrix.

Sample#: 38414-006

Sample ID: SU-7-3 (PYSW)

Matrix: Solid

Sampled: 10/28/16 15:00

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Arsenic	< 2.5	2.5	ug/g	5	AM	11/15/16	9199	11/15/16	22:04	SW3051A6020A
Chromium	< 9.8 *	9.8	ug/g	10	AM	11/15/16	9199	11/17/16	22:41	SW3051A6020A
Copper	< 9.8 *	9.8	ug/g	10	AM	11/15/16	9199	11/17/16	22:41	SW3051A6020A

* Dilution was required due to internal standard interference from the matrix.

Sample#: 38414-007

Sample ID: SU-8-1 (PYSW)

Matrix: Solid

Sampled: 10/28/16 15:10

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Arsenic	< 2.5	2.5	ug/g	5	AM	11/15/16	9199	11/15/16	22:11	SW3051A6020A
Chromium	< 10 *	10	ug/g	10	AM	11/15/16	9199	11/17/16	22:47	SW3051A6020A
Copper	< 10 *	10	ug/g	10	AM	11/15/16	9199	11/17/16	22:47	SW3051A6020A

* Dilution was required due to internal standard interference from the matrix.

Sample#: 38414-008

Sample ID: SU-8-2 (PYSW)

Matrix: Solid

Sampled: 10/28/16 15:10

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
Arsenic	< 2.4	2.4	ug/g	5	AM	11/15/16	9199	11/15/16	22:17	SW3051A6020A
Chromium	< 9.6 *	9.6	ug/g	10	AM	11/15/16	9199	11/17/16	22:53	SW3051A6020A
Copper	< 9.6 *	9.6	ug/g	10	AM	11/15/16	9199	11/17/16	22:53	SW3051A6020A

* Dilution was required due to internal standard interference from the matrix.

Project ID: Fairpoint Brunswick 3947

Job ID: 38414

Sample#: 38414-009

Sample ID: SU-8-3 (PYSW)

Matrix: Solid

Sampled: 10/28/16 15:10

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Arsenic	< 2.5	2.5	ug/g	5	AM	11/15/16	9199	11/15/16	22:24	SW3051A6020A
Chromium	< 10 *	10	ug/g	10	AM	11/15/16	9199	11/17/16	22:59	SW3051A6020A
Copper	< 10 *	10	ug/g	10	AM	11/15/16	9199	11/17/16	22:59	SW3051A6020A

* Dilution was required due to internal standard interference from the matrix.

Sample#: 38414-010

Sample ID: SU-9-1 (DPSW)

Matrix: Solid

Sampled: 10/28/16 14:20

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Arsenic	**2.9**	2.5	ug/g	5	AM	11/15/16	9199	11/15/16	22:51	SW3051A6020A
Chromium	**12** *	9.8	ug/g	10	AM	11/15/16	9199	11/17/16	23:22	SW3051A6020A
Copper	< 9.8 *	9.8	ug/g	10	AM	11/15/16	9199	11/17/16	23:22	SW3051A6020A

* Dilution was required due to internal standard interference from the matrix.

Sample#: 38414-011

Sample ID: SU-9-2 (DPSW)

Matrix: Solid

Sampled: 10/28/16 14:20

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Arsenic	**2.7**	2.4	ug/g	5	AM	11/15/16	9199	11/15/16	22:58	SW3051A6020A
Chromium	**11** *	9.6	ug/g	10	AM	11/15/16	9199	11/17/16	23:28	SW3051A6020A
Copper	< 9.6 *	9.6	ug/g	10	AM	11/15/16	9199	11/17/16	23:28	SW3051A6020A

* Dilution was required due to internal standard interference from the matrix.

Sample#: 38414-012

Sample ID: SU-9-3 (DPSW)

Matrix: Solid

Sampled: 10/28/16 14:20

Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
Arsenic	**3.0**	2.5	ug/g	5	AM	11/15/16	9199	11/15/16	23:05	SW3051A6020A
Chromium	**12** *	10	ug/g	10	AM	11/15/16	9199	11/17/16	23:34	SW3051A6020A
Copper	< 10 *	10	ug/g	10	AM	11/15/16	9199	11/17/16	23:34	SW3051A6020A

* Dilution was required due to internal standard interference from the matrix.

Sample Readiness Procedure Log

ARA SOP Ref. QA-801

Absolute Resource Associates

Date	Init.	Readiness Procedure	Comments
10/26/16	CL	Filtered DOC sample, with 0.45µm filter Lot# 60507103	Filter blank 38304-06 -07
11/3/16	[illegible]	Sample Drying overnight	38414-01 through 38414-12 38413-01 through 38413-15 Dried in Hoods
11/4/16	[illegible]	Sample Sieving to 2mm size	38414-01 through 38414-12 11/8 38413-01 through 38413-15 Bowl + Sieve cleaned as follows. Soap + water, DI, 10% HNO3 Bath (5 min), Tap, DI
11/7/16	[illegible]	Incremental Sampling	Sample spread out onto an aluminum cooking sheet evenly. ~2g scooped 40 times across the whole sheet to give a total weight of 80g
11/7/16	11/7/16		38413-01-80.20g -02-80.06g -03-80.46g -04-80.09g -05-80.03g -06-80.28g 38413-07-80.16g -08-80.43g -09-80.27g -10-80.17g -11-80.25g
11/7/16	[illegible]		38413-12-80.19g -13-80.35g -14-80.44g -15-80.40g 38414-01-80.14g 38414-02-80.20g -03-80.20g -04-80.23g -05-80.24g -06-80.07g -07-80.21g

QSD-134 4/25/11 Rev0 AJD (pg 1/1)

Sample Readiness Procedure Log

ARA SOP Ref. QA-801

Absolute Resource Associates

Date	Init.	Readiness Procedure	Comments
11/7/16	[illegible]	Incremental Sampling	38414-08 - 80.09g -09 - 80.33g -10 - 80.13g -11 - 80.33g -12 - 80.14g I org IS used for all weights
11-7-16	[illegible]	put ~10g solid into 10mL MeOH for preservation & Analysis.	for Samples 38452-01 10.76g -02 10.51g
11/15/16	[illegible]	Filtered Chlorophyll Samples	Balance INORG IS 38336-01 300 mls -07 300 mls -02 300 mls -08 300 mls -03 450 mls -04 200 mls -04 350 mls -10 300 mls -05 350 mls -11 700 mls -06 400 mls Filter Lot # RGHA66306

QSD-134 4/25/11 Rev0 AJD (pg 1/1)

Absolute Resource associates
124 Heritage Avenue #16
Portsmouth, NH 03801
603-436-2001
absoluteresourceassociates.com

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

38414

Company Name: St Germain Collins
Company Address: 846 Main St. Westbrook, ME
Report To: Brian Buchmann
Phone #: 1-207-591-7000
Invoice to Email: sallocca@fairpoint.com
☐ Hard Copy Invoice Required

Project Name: Fairpoint Brunswick
Project #: 3947
Project Location: NH MA (ME) VT NY Other
Protocol: RCRA SDWA NPDES MCP NHDES (OTHER)
Reporting Limits: QAPP GW-1 S-1 EPA DW Other RMGS
Quote # ☐ NH Reimbursement Pricing
PO #

ANALYSIS REQUEST

☐ VOC 8260 ☐ VOC 8260 NHDES ☐ VOC 8260 MADEP
☐ VOC 624 ☐ VOC BTEX ☐ MtBE; only ☐ VOC 8021VT
☐ VPH MADEP ☐ MEGRO ☐ GRO 8015 ☐ 1,4-Dioxane
☐ VOC 524.2 ☐ VOC 524.2 NH List ☐ Gases-List:
☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint
☒ 8270PAH ☐ 8270ABN ☐ 625 ☐ EDB
☐ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB
☐ O&G 1664 ☐ Mineral O&G SM5520F
☐ pH ☐ BOD ☐ Conductivity ☐ Turbidity
☐ TSS ☐ TDS ☐ TS ☐ TVS ☐ Alkalinity
☐ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals ☐ Hardness
☒ Total Metals-list: CLA
☐ Dissolved Metals-list:
☐ Ammonia ☐ COD ☐ TKN ☐ TN ☐ TON ☐ TOC
☐ T-Phosphorus ☐ Phenols ☐ Bacteria P/A ☐ Bacteria MPN
☐ Cyanide ☐ Sulfide ☐ Nitrate + Nitrite ☐ Ortho P
☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☐ Bromide ☐ Fluoride
☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP
☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC ☐ TCLP Pesticide
Subcontract: ☐ Grain Size ☐ Herbicides ☐ Formaldehyde
ISM prep
Dioxin
TCLP
Grab (G) or Composite (C)

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix: WATER	SOLID	OTHER	Preservation Method: HCl	HNO_3	H_2SO_4	NaOH	MeOH	Sampling: DATE	TIME	SAMPLER	ISM prep	Dioxin	TCLP	Grab (G) or Composite (C)
384149	SU-6-1 (PYB)	1		X							10/28/16	1300	BB	X	X	X	C
-02	SU-6-2 (PYB)											1300					
-03	SU-6-3 (PYB)											1300					
-04	SU-7-1 (PYSW)											1500					
-05	SU-7-2 (PYSW)											1500					
-06	SU-7-3 (PYSW)											1500					
-07	SU-8-1 (PYSW)											1510					
-08	SU-8-2 (PYSW)											1510					
-09	SU-8-3 (PYSW)											1510					
-10	SU-9-1 (DPSW)											1420					
-11	SU-9-2 (DPSW)											1420					

TAT REQUESTED
Priority (24 hr)* ☐
Expedited (48 hr)* ☐
Standard (10 Business Days) ☐
*Date Needed _____

See absoluteresourceassociates.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS
Proceed- per phone call from B. Buchmann 11/3/16 @
~~Hold Dioxin samples~~ until notified by St. Germain Collins.

REPORTING INSTRUCTIONS ☐ PDF (e-mail address)_____
☐ HARD COPY REQUIRED ☐ FAX (FAX#)_____

RECEIVED ON ICE ☒ YES ☐ NO
TEMPERATURE 8 °C

CUSTODY RECORD
QSD-01 Revision 10/14/15

	Date	Time		Date	Time
Relinquished by Sampler:			Received by:		
Relinquished by:			Received by:	11/2/16	14:45
Relinquished by:	11/2/16	16:15	Received by Laboratory:	11/2/16	16:15

Absolute Resource associates
124 Heritage Avenue #16
Portsmouth, NH 03801
603-436-2001
absoluteresourceassociates.com

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Company Name: St. Germain Collins
Company Address: 846 Main St. Westbrook, ME
Report To: Brian Bachmann
Phone #: 1-207-591-7000
Invoice to Email: sallocca@fairpoint.com
☐ Hard Copy Invoice Required

Project Name: Fairpoint Brunswick
Project #: 3947
Project Location: NH MA (ME) VT NY Other
Protocol: RCRA SDWA NPDES MCP NHDES (OTHER)
Reporting Limits: QAPP GW-1 S-1 EPA DW Other RAGS
Quote # ☐ NH Reimbursement Pricing
PO #

ANALYSIS REQUEST

☐ VOC 8260 ☐ VOC 8260 NHDES ☐ VOC 8260 MADEP ☐ VOC 624 ☐ VOC BTEX ☐ MtBE, only ☐ VOC 8021VT ☐ VPH MADEP ☐ MEGRO ☐ GRO 8015 ☐ 1,4-Dioxane ☐ VOC 524.2 ☐ VOC 524.2 NH List ☐ Gases-List: ☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint ☒ 8270PAH ☐ 8270ABN ☐ 625 ☐ EDB ☐ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB ☐ O&G 1664 ☐ Mineral O&G SM5520F ☐ pH ☐ BOD ☐ Conductivity ☐ Turbidity ☐ TSS ☐ TDS ☐ TS ☐ TVS ☐ Alkalinity ☐ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals ☐ Hardness ☒ Total Metals-list: RCRA ☐ Dissolved Metals-list: ☐ Ammonia ☐ COD ☐ TKN ☐ TN ☐ TON ☐ TOC ☐ T-Phosphorus ☐ Phenols ☐ Bacteria P/A ☐ Bacteria MPN ☐ Cyanide ☐ Sulfide ☐ Nitrate + Nitrite ☐ Ortho P ☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☐ Bromide ☐ Fluoride ☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP ☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC ☐ TCLP Pesticide ☐ Subcontract: ☐ Grain Size ☐ Herbicides ☐ Formaldehyde

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix: WATER	SOLID	OTHER	Preservation Method: HCl	HNO_3	H_2SO_4	NaOH	MeOH	Sampling: DATE	TIME	SAMPLER	Ism trep	Dioxin (Pace)	PCP	Grab (G) or Composite (C)
38414-12	SW-9-3 (DPSW)	1		✓							10/28/16	1420	BB	X	X	X	C

Brian Bachmann

TAT REQUESTED
Priority (24 hr)* ☐
Expedited (48 hr)* ☐
Standard (10 Business Days) ☑
*Date Needed _____

See absoluteresourceassociates.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS
Proceed per phone call from B. Bachmann 11/3/16 (P)
~~Hold Dioxin samples unt.~~ notified by St. Germain Collins

REPORTING INSTRUCTIONS ☐ PDF (e-mail address)_____
☐ HARD COPY REQUIRED ☐ FAX (FAX#)_____

RECEIVED ON ICE ☒ YES ☐ NO
TEMPERATURE 0 °C

CUSTODY RECORD
QSD-01 Revision 10/14/15

	Relinquished by Sampler:	Date	Time	Received by:	Date	Time
1	Brian Bachmann	10/28/16	1700	Cold Storage	10/28/16	1700
2	Cold Storage	11/2/16	1445		11/2/16	14:45
3		11/2/16	16:15	Received by Laboratory:	11/2/16	1615

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

www.pacelabs.com

Report Prepared for:

Aaron DeWees
Resource Laboratory Inc
124 Heritage Avenue
Unit 16
Portsmouth NH 03801

REPORT OF LABORATORY ANALYSIS FOR PCDD/PCDF

Report Prepared Date:
November 30, 2016

Report Information:

Pace Project #: 10369113
Sample Receipt Date: 11/08/2016
Client Project #: 38413
Client Sub PO #: 38413
State Cert #: 2007029

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Scott Unze, your Pace Project Manager.

This report has been reviewed by:

November 30, 2016

Scott Unze, Project Manager
(612) 607-6383
(612) 607-6444 (fax)
scott.unze@pacelabs.com

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

DISCUSSION

This report presents the results from the analyses performed on fifteen samples submitted by a representative of Absolute Resource Associates. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290. Estimated Maximum Possible Concentration (EMPC) values were treated as positives in the toxic equivalence calculations. The reporting limits were based on signal-to-noise measurements.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 61-118%. All of the labeled standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

Values were flagged "I" where incorrect isotope ratios were obtained. Concentrations below the calibration range were flagged "J" and should be regarded as estimates. Concentrations above the calibration range were flagged "E" and should also be regarded as estimates.

A laboratory method blank was prepared and analyzed with each sample batch as part of our routine quality control procedures. The results show Blank-52781 to contain trace levels of selected congeners. These levels were below the calibration range of the method. The levels reported for the affected congeners in the associated field samples were higher than the corresponding blank levels by one or more orders of magnitude. These results indicate that the sample processing steps did not contribute significantly to the levels reported for the field samples.

Laboratory spike samples were also prepared with the sample batches using clean sand that had been fortified with native standard materials. The results show that the spiked native compounds were recovered at 84-128%; these results were within the target range for the method. Matrix spikes were prepared with the sample batches using sample materials from separate projects; results from these analyses will be provided upon request.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Mississippi	MN00064
Alabama	40770	Montana	92
Alaska	MN00064	Nebraska	NE-OS-18-06
Arizona	AZ0014	Nevada	MN_00064_200
Arkansas	88-0680	New Jersey (NE	MN002
California	01155CA	New York (NEL	11647
Colorado	MN00064	North Carolina	27700
Connecticut	PH-0256	North Dakota	R-036
EPA Region 8	8TMS-Q	Ohio	4150
Florida (NELAP	E87605	Oklahoma	D9922
Georgia (DNR)	959	Oregon (ELAP)	MN200001-005
Guam	959	Oregon (OREL	MN300001-001
Hawaii	SLD	Pennsylvania	68-00563
Idaho	MN00064	Puerto Rico	MN00064
Illinois	200012	Saipan	MP0003
Indiana	C-MN-01	South Carolina	74003001
Indiana	C-MN-01	Tennessee	TN02818
Iowa	368	Texas	T104704192-08
Kansas	E-10167	Utah (NELAP)	MN00064
Kentucky	90062	Virginia	00251
Louisiana	03086	Washington	C755
Maine	2007029	West Virginia #	9952C
Maryland	322	West Virginia D	382
Michigan	9909	Wisconsin	999407970
Minnesota	027-053-137	Wyoming	8TMS-Q

REPORT OF LABORATORY ANALYSIS

Appendix A

Sample Management

Absolute Resource associates

SUBCONTRACT CHAIN OF CUSTODY DOCUMENTATION

10369113

Client:	Absolute Resource Associates	Contact: Aaron DeWees	Phone: 603-436-2001	Fax:	Page 1 of 2
Report to:	Aaron DeWees/Jane Stratton	Address: 124 Heritage Ave, #16		Project Name/Number: 38413	
Invoice to:	cathyd@absoluteresourceassociates.com	Portsmouth, NH 03801		Project State: NH MA (ME) VT	
PO#: 38413	Quote #:			Protocol: RCRA SDWA NPDES MCP NHDES Other	

Lab Number: (assigned by laboratory)	Field ID: (must agree with container)	Date Sampled	Time Sampled	Sampled By	Container Size (mL)	Container Type (P/G/T)	Field Preservation	Matrix S=Soil W=Water	Analyses Requested: Special Instructions:
	SU-1-1 (DPB)	10/26	0840			G		S	Dioxin 001
	SU-1-2	"	"			"		"	002
	SU-1-3	"	"			"		"	003
	SU-2-1 (DPSW)	"	0900			"		"	004
	SU-2-2	"	"			"		"	005
	SU-2-3	"	"			"		"	006
	SU-3-1 (PYSW)	"	1000			"		"	007
	SU-3-2	"	"			"		"	008
	SU-3-3	"	"			"		"	009
	SU-4-1 (PYB)	10/27	1000			"		"	010
	SU-4-2	"	"			"		"	011

Subcontract Laboratory: PACE

Relinquished by:	Date:	Time:	Received by: Natasha / PACE	Date: 11.8.16	Time: 9:40
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Reporting Instructions: (PDF) (Email Address: aarond@absoluteresourceassociates.com; janes@absoluteresourceassociates.com)

Excel File: Y / N

Received on ice? (Y) N

Temp: 1.4°C

TAT Requested: Priority (24hr) Expedited (48hr) 10 Business days Date needed:

Comments:

QSD-21 4/15/16 Rev0 ajd (pg 1/1)

Absolute Resource associates

SUBCONTRACT CHAIN OF CUSTODY DOCUMENTATION

Client:	Absolute Resource Associates	Contact:	Aaron DeWees	Phone: 603-436-2001 Fax:	Page 2 of 2
Report to:	Aaron DeWees/Jane Stratton	Address:	124 Heritage Ave, #16	Project Name/Number: 38413	
Invoice to:	cathyd@absoluteresourceassociates.com		Portsmouth, NH 03801	Project State: NH MA (ME) VT	
PO#: 38413	Quote #:			Protocol: RCRA SDWA NPDES MCP NHDES Other	

Lab Number: (assigned by laboratory)	Field ID: (must agree with container)	Date Sampled	Time Sampled	Sampled By	Container Size (mL)	Container Type (P/G/T)	Field Preservation	Matrix S=Soil W=Water	Analyses Requested: Special Instructions:
	SW-4-3 (PyB)	10/27	1000			G		S	Dioxin 012
	SW-5-1 (PySW)	10/28	1230			"		"	013
	SW-5-2	"	"			"		"	014
	SW-5-3	"	"			"		"	015

Subcontract Laboratory: PACE

Relinquished by:	Date:	Time:	Received by: PACE	Date: 11.8.16	Time: 9:40
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Reporting Instructions: (PDF) (Email Address: aarond@absoluteresourceassociates.com; janes@absoluteresourceassociates.com)

Excel File: Y / N

Received on ice? (N)

Temp: 1.4°C

TAT Requested: Priority (24hr) Expedited (48hr) 10 Business days Date needed:

Comments:

QSD-21 4/15/16 Rev0 ajd (pg 1/1)

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 02Aug2016 Page 1 of 2
	Document No.: **F-MN-L-213-rev.17**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Absolute Resource Associates

Project #: WO# 10369113

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

Tracking Number: 1Z 317 EW0 01 6599 5557

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:_____ **Temp Blank?** ☐Yes ☒No

Thermometer Used: ☒151401163 ☐151401164 ☐B88A912167504 ☐B88A0143310098 **Type of Ice:** ☒Wet ☒Blue ☐None ☐Samples on ice, cooling process has begun

Cooler Temp Read (°C): 1.5 **Cooler Temp Corrected (°C):** 1.4 **Biological Tissue Frozen?** ☐Yes ☐No ☒N/A

Temp should be above freezing to 6°C **Correction Factor:** -0.1 **Date and Initials of Person Examining Contents:** 11.8.16 NK

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, AZ, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐Yes ☒No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐Yes ☒No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present?	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out?	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished?	☐Yes	☒No	☐N/A	3.
Sampler Name and/or Signature on COC?	☐Yes	☒No	☐N/A	4.
Samples Arrived within Hold Time?	☒Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72 hr)?	☐Yes	☒No	☐N/A	6.
Rush Turn Around Time Requested?	☐Yes	☒No	☐N/A	7.
Sufficient Volume?	☒Yes	☐No	☐N/A	8.
Correct Containers Used?	☒Yes	☐No	☐N/A	9.
-Pace Containers Used?	☐Yes	☒No	☐N/A	
Containers Intact?	☒Yes	☐No	☐N/A	10.
Filtered Volume Received for Dissolved Tests?	☐Yes	☐No	☒N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: Soil	☐Yes	☒No	☐N/A	12. Date/Time/analysis only on COC not on label
All containers needing acid/base preservation have been checked?	☐Yes	☐No	☒N/A	13. ☐HNO_3 ☐H_2SO_4 ☐NaOH ☐HCl Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	☐Yes	☐No	☒N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	☐Yes	☐No	☒N/A	Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐Yes	☐No	☒N/A	14.
Trip Blank Present?	☐Yes	☐No	☒N/A	15.
Trip Blank Custody Seals Present?	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐Yes ☐No

Person Contacted: Aaron DeWees Date/Time: 11/9/16 12:18

Comments/Resolution: Method 8290 T-O needed; ME-TEQ

Project Manager Review: Lethan Boberg **Date:** 11/9/16

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).

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Reporting Flags

A = Reporting Limit based on signal to noise

B = Less than 10x higher than method blank level

C = Result obtained from confirmation analysis

D = Result obtained from analysis of diluted sample

E = Exceeds calibration range

I = Interference present

J = Estimated value

Nn = Value obtained from additional analysis

P = PCDE Interference

R = Recovery outside target range

S = Peak saturated

U = Analyte not detected

V = Result verified by confirmation analysis

X = %D Exceeds limits

Y = Calculated using average of daily RFs

* = See Discussion

Appendix B

Sample Analysis Summary

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID	SU-1-1 (DPB)		
Lab Sample ID	10369113001		
Filename	U161122C_05		
Injected By	BAL		
Total Amount Extracted	10.4 g	Matrix	Soil
% Moisture	0.7	Dilution	NA
Dry Weight Extracted	10.3 g	Collected	10/26/2016 08:40
ICAL ID	U161025	Received	11/08/2016 09:40
CCal Filename(s)	U161122B_16 & U161122C_17	Extracted	11/11/2016 17:05
Method Blank ID	BLANK-52766	Analyzed	11/23/2016 02:56

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.28	-----	0.098	J	2,3,7,8-TCDF-13C	2.00	68
Total TCDF	3.10	-----	0.098		2,3,7,8-TCDD-13C	2.00	77
					1,2,3,7,8-PeCDF-13C	2.00	78
2,3,7,8-TCDD	ND	-----	0.110		2,3,4,7,8-PeCDF-13C	2.00	78
Total TCDD	0.12	-----	0.110	J	1,2,3,7,8-PeCDD-13C	2.00	86
					1,2,3,4,7,8-HxCDF-13C	2.00	83
1,2,3,7,8-PeCDF	0.53	-----	0.180	J	1,2,3,6,7,8-HxCDF-13C	2.00	78
2,3,4,7,8-PeCDF	0.99	-----	0.079	J	2,3,4,6,7,8-HxCDF-13C	2.00	84
Total PeCDF	20.00	-----	0.130		1,2,3,7,8,9-HxCDF-13C	2.00	96
					1,2,3,4,7,8-HxCDD-13C	2.00	87
1,2,3,7,8-PeCDD	1.50	-----	0.096	J	1,2,3,6,7,8-HxCDD-13C	2.00	67
Total PeCDD	5.00	-----	0.096		1,2,3,4,6,7,8-HpCDF-13C	2.00	70
					1,2,3,4,7,8,9-HpCDF-13C	2.00	81
1,2,3,4,7,8-HxCDF	2.70	-----	0.130	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	79
1,2,3,6,7,8-HxCDF	2.80	-----	0.120	J	OCDD-13C	4.00	90
2,3,4,6,7,8-HxCDF	4.50	-----	0.110	J			
1,2,3,7,8,9-HxCDF	1.10	-----	0.067	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	90.00	-----	0.110		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	5.00	-----	0.240		2,3,7,8-TCDD-37Cl4	0.20	79
1,2,3,6,7,8-HxCDD	19.00	-----	0.180				
1,2,3,7,8,9-HxCDD	11.00	-----	0.240				
Total HxCDD	78.00	-----	0.220				
1,2,3,4,6,7,8-HpCDF	95.00	-----	0.054		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	7.90	-----	0.340		Equivalence: 3.4 ng/Kg		
Total HpCDF	310.00	-----	0.200		(Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD	430.00	-----	0.350				
Total HpCDD	670.00	-----	0.350				
OCDF	360.00	-----	0.075				
OCDD	3100.00	-----	0.082				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
J = Estimated value

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
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Tel: 612-607-1700
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Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID	SU-1-2 (DPB)		
Lab Sample ID	10369113002		
Filename	U161122C_06		
Injected By	BAL		
Total Amount Extracted	10.5 g	Matrix	Soil
% Moisture	0.6	Dilution	NA
Dry Weight Extracted	10.4 g	Collected	10/26/2016 08:40
ICAL ID	U161025	Received	11/08/2016 09:40
CCal Filename(s)	U161122B_16 & U161122C_17	Extracted	11/11/2016 17:05
Method Blank ID	BLANK-52766	Analyzed	11/23/2016 03:43

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.46	-----	0.130	J	2,3,7,8-TCDF-13C	2.00	74
Total TCDF	9.50	-----	0.130		2,3,7,8-TCDD-13C	2.00	81
					1,2,3,7,8-PeCDF-13C	2.00	76
2,3,7,8-TCDD	0.28	-----	0.098	J	2,3,4,7,8-PeCDF-13C	2.00	77
Total TCDD	2.60	-----	0.098		1,2,3,7,8-PeCDD-13C	2.00	81
					1,2,3,4,7,8-HxCDF-13C	2.00	77
1,2,3,7,8-PeCDF	1.60	-----	0.210	J	1,2,3,6,7,8-HxCDF-13C	2.00	73
2,3,4,7,8-PeCDF	4.40	-----	0.120	J	2,3,4,6,7,8-HxCDF-13C	2.00	81
Total PeCDF	93.00	-----	0.170		1,2,3,7,8,9-HxCDF-13C	2.00	95
					1,2,3,4,7,8-HxCDD-13C	2.00	78
1,2,3,7,8-PeCDD	6.30	-----	0.074		1,2,3,6,7,8-HxCDD-13C	2.00	61
Total PeCDD	25.00	-----	0.074		1,2,3,4,6,7,8-HpCDF-13C	2.00	67
					1,2,3,4,7,8,9-HpCDF-13C	2.00	78
1,2,3,4,7,8-HxCDF	14.00	-----	0.160		1,2,3,4,6,7,8-HpCDD-13C	2.00	77
1,2,3,6,7,8-HxCDF	11.00	-----	0.120		OCDD-13C	4.00	93
2,3,4,6,7,8-HxCDF	15.00	-----	0.110				
1,2,3,7,8,9-HxCDF	3.40	-----	0.085	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	330.00	-----	0.120		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	17.00	-----	0.160		2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	58.00	-----	0.200				
1,2,3,7,8,9-HxCDD	39.00	-----	0.230				
Total HxCDD	290.00	-----	0.190				
1,2,3,4,6,7,8-HpCDF	340.00	-----	0.043		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	26.00	-----	0.430		Equivalence: 13 ng/Kg		
Total HpCDF	1100.00	-----	0.240		(Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD	1400.00	-----	0.970				
Total HpCDD	2300.00	-----	0.970				
OCDF	1500.00	-----	0.077				
OCDD	12000.00	-----	0.130	E			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

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NC = Not Calculated

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J = Estimated value
E = Exceeds calibration range

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID	SU-1-3 (DPB)		
Lab Sample ID	10369113003		
Filename	U161122C_07		
Injected By	BAL		
Total Amount Extracted	10.4 g	Matrix	Soil
% Moisture	0.6	Dilution	NA
Dry Weight Extracted	10.3 g	Collected	10/26/2016 08:40
ICAL ID	U161025	Received	11/08/2016 09:40
CCal Filename(s)	U161122B_16 & U161122C_17	Extracted	11/11/2016 17:05
Method Blank ID	BLANK-52766	Analyzed	11/23/2016 04:29

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.16	-----	0.061	J	2,3,7,8-TCDF-13C	2.00	85
Total TCDF	0.61	-----	0.061	J	2,3,7,8-TCDD-13C	2.00	91
					1,2,3,7,8-PeCDF-13C	2.00	83
2,3,7,8-TCDD	ND	-----	0.096		2,3,4,7,8-PeCDF-13C	2.00	84
Total TCDD	ND	-----	0.096		1,2,3,7,8-PeCDD-13C	2.00	91
					1,2,3,4,7,8-HxCDF-13C	2.00	86
1,2,3,7,8-PeCDF	ND	-----	0.130		1,2,3,6,7,8-HxCDF-13C	2.00	78
2,3,4,7,8-PeCDF	-----	0.069	0.061	IJ	2,3,4,6,7,8-HxCDF-13C	2.00	87
Total PeCDF	1.50	-----	0.094	J	1,2,3,7,8,9-HxCDF-13C	2.00	96
					1,2,3,4,7,8-HxCDD-13C	2.00	86
1,2,3,7,8-PeCDD	0.14	-----	0.091	J	1,2,3,6,7,8-HxCDD-13C	2.00	70
Total PeCDD	0.14	-----	0.091	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	73
					1,2,3,4,7,8,9-HpCDF-13C	2.00	83
1,2,3,4,7,8-HxCDF	-----	0.250	0.038	IJ	1,2,3,4,6,7,8-HpCDD-13C	2.00	77
1,2,3,6,7,8-HxCDF	0.30	-----	0.058	J	OCDD-13C	4.00	82
2,3,4,6,7,8-HxCDF	0.32	-----	0.033	J			
1,2,3,7,8,9-HxCDF	-----	0.084	0.033	IJ	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	7.30	-----	0.040		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	0.40	-----	0.081	J	2,3,7,8-TCDD-37Cl4	0.20	98
1,2,3,6,7,8-HxCDD	1.10	-----	0.095	J			
1,2,3,7,8,9-HxCDD	0.78	-----	0.170	J			
Total HxCDD	4.90	-----	0.110				
1,2,3,4,6,7,8-HpCDF	8.70	-----	0.046		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	0.62	-----	0.071	J	Equivalence: 0.28 ng/Kg		
Total HpCDF	28.00	-----	0.059		(Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD	29.00	-----	0.130				
Total HpCDD	46.00	-----	0.130				
OCDF	39.00	-----	0.059				
OCDD	210.00	-----	0.110				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
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NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
J = Estimated value
I = Interference present

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID	SU-2-1 (DPSW)		
Lab Sample ID	10369113004		
Filename	U161122C_08		
Injected By	BAL		
Total Amount Extracted	10.5 g	Matrix	Soil
% Moisture	2.4	Dilution	NA
Dry Weight Extracted	10.2 g	Collected	10/26/2016 09:00
ICAL ID	U161025	Received	11/08/2016 09:40
CCal Filename(s)	U161122B_16 & U161122C_17	Extracted	11/11/2016 17:05
Method Blank ID	BLANK-52766	Analyzed	11/23/2016 05:15

Native Isomers	**Conc** ng/Kg	**EMPC** ng/Kg	**EDL** ng/Kg		**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	0.26	-----	0.083	J	2,3,7,8-TCDF-13C	2.00	82
Total TCDF	2.60	-----	0.083		2,3,7,8-TCDD-13C	2.00	88
					1,2,3,7,8-PeCDF-13C	2.00	79
2,3,7,8-TCDD	ND	-----	0.110		2,3,4,7,8-PeCDF-13C	2.00	79
Total TCDD	0.13	-----	0.110	J	1,2,3,7,8-PeCDD-13C	2.00	86
					1,2,3,4,7,8-HxCDF-13C	2.00	80
1,2,3,7,8-PeCDF	0.32	-----	0.170	J	1,2,3,6,7,8-HxCDF-13C	2.00	72
2,3,4,7,8-PeCDF	0.65	-----	0.055	J	2,3,4,6,7,8-HxCDF-13C	2.00	81
Total PeCDF	18.00	-----	0.110		1,2,3,7,8,9-HxCDF-13C	2.00	96
					1,2,3,4,7,8-HxCDD-13C	2.00	80
1,2,3,7,8-PeCDD	1.40	-----	0.074	J	1,2,3,6,7,8-HxCDD-13C	2.00	61
Total PeCDD	4.60	-----	0.074	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	67
					1,2,3,4,7,8,9-HpCDF-13C	2.00	76
1,2,3,4,7,8-HxCDF	2.20	-----	0.100	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	74
1,2,3,6,7,8-HxCDF	2.30	-----	0.061	J	OCDD-13C	4.00	83
2,3,4,6,7,8-HxCDF	3.30	-----	0.078	J			
1,2,3,7,8,9-HxCDF	0.56	-----	0.056	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	67.00	-----	0.075		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	3.50	-----	0.120	J	2,3,7,8-TCDD-37Cl4	0.20	93
1,2,3,6,7,8-HxCDD	11.00	-----	0.130				
1,2,3,7,8,9-HxCDD	8.40	-----	0.140				
Total HxCDD	56.00	-----	0.130				
1,2,3,4,6,7,8-HpCDF	71.00	-----	0.054		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	4.50	-----	0.210	J	Equivalence: 2.5 ng/Kg		
Total HpCDF	210.00	-----	0.130		(Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD	250.00	-----	0.330				
Total HpCDD	410.00	-----	0.330				
OCDF	250.00	-----	0.150				
OCDD	1900.00	-----	0.110				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
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J = Estimated value

REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID	SU-2-2 (DPSW)		
Lab Sample ID	10369113005		
Filename	U161122C_09		
Injected By	BAL		
Total Amount Extracted	10.5 g	Matrix	Soil
% Moisture	1.5	Dilution	NA
Dry Weight Extracted	10.3 g	Collected	10/26/2016 09:00
ICAL ID	U161025	Received	11/08/2016 09:40
CCal Filename(s)	U161122B_16 & U161122C_17	Extracted	11/11/2016 17:05
Method Blank ID	BLANK-52766	Analyzed	11/23/2016 06:01

Native Isomers	**Conc** ng/Kg	**EMPC** ng/Kg	**EDL** ng/Kg		**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	0.19	-----	0.092	J	2,3,7,8-TCDF-13C	2.00	83
Total TCDF	1.50	-----	0.092		2,3,7,8-TCDD-13C	2.00	90
					1,2,3,7,8-PeCDF-13C	2.00	79
2,3,7,8-TCDD	ND	-----	0.084		2,3,4,7,8-PeCDF-13C	2.00	78
Total TCDD	0.30	-----	0.084	J	1,2,3,7,8-PeCDD-13C	2.00	85
					1,2,3,4,7,8-HxCDF-13C	2.00	83
1,2,3,7,8-PeCDF	0.24	-----	0.160	J	1,2,3,6,7,8-HxCDF-13C	2.00	78
2,3,4,7,8-PeCDF	0.50	-----	0.066	J	2,3,4,6,7,8-HxCDF-13C	2.00	87
Total PeCDF	13.00	-----	0.120		1,2,3,7,8,9-HxCDF-13C	2.00	97
					1,2,3,4,7,8-HxCDD-13C	2.00	84
1,2,3,7,8-PeCDD	0.99	-----	0.120	J	1,2,3,6,7,8-HxCDD-13C	2.00	65
Total PeCDD	2.70	-----	0.120	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	71
					1,2,3,4,7,8,9-HpCDF-13C	2.00	80
1,2,3,4,7,8-HxCDF	1.70	-----	0.170	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	75
1,2,3,6,7,8-HxCDF	1.90	-----	0.160	J	OCDD-13C	4.00	84
2,3,4,6,7,8-HxCDF	2.20	-----	0.098	J			
1,2,3,7,8,9-HxCDF	0.40	-----	0.073	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	49.00	-----	0.120		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	2.30	-----	0.110	J	2,3,7,8-TCDD-37Cl4	0.20	93
1,2,3,6,7,8-HxCDD	7.60	-----	0.120				
1,2,3,7,8,9-HxCDD	5.70	-----	0.180				
Total HxCDD	39.00	-----	0.140				
1,2,3,4,6,7,8-HpCDF	51.00	-----	0.035		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	3.50	-----	0.170	J	Equivalence: 1.8 ng/Kg		
Total HpCDF	150.00	-----	0.100		(Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD	190.00	-----	0.310				
Total HpCDD	320.00	-----	0.310				
OCDF	190.00	-----	0.120				
OCDD	1400.00	-----	0.086				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
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J = Estimated value

REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID	SU-2-3 (DPSW)		
Lab Sample ID	10369113006		
Filename	U161122C_10		
Injected By	BAL		
Total Amount Extracted	10.3 g	Matrix	Soil
% Moisture	1.8	Dilution	NA
Dry Weight Extracted	10.1 g	Collected	10/26/2016 09:00
ICAL ID	U161025	Received	11/08/2016 09:40
CCal Filename(s)	U161122B_16 & U161122C_17	Extracted	11/11/2016 17:05
Method Blank ID	BLANK-52766	Analyzed	11/23/2016 06:48

Native Isomers	**Conc** ng/Kg	**EMPC** ng/Kg	**EDL** ng/Kg		**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	0.27	-----	0.072	J	2,3,7,8-TCDF-13C	2.00	89
Total TCDF	4.10	-----	0.072		2,3,7,8-TCDD-13C	2.00	95
					1,2,3,7,8-PeCDF-13C	2.00	83
2,3,7,8-TCDD	0.15	-----	0.074	J	2,3,4,7,8-PeCDF-13C	2.00	83
Total TCDD	0.57	-----	0.074	J	1,2,3,7,8-PeCDD-13C	2.00	87
					1,2,3,4,7,8-HxCDF-13C	2.00	84
1,2,3,7,8-PeCDF	0.46	-----	0.230	J	1,2,3,6,7,8-HxCDF-13C	2.00	77
2,3,4,7,8-PeCDF	0.99	-----	0.086	J	2,3,4,6,7,8-HxCDF-13C	2.00	87
Total PeCDF	31.00	-----	0.160		1,2,3,7,8,9-HxCDF-13C	2.00	100
					1,2,3,4,7,8-HxCDD-13C	2.00	88
1,2,3,7,8-PeCDD	2.30	-----	0.083	J	1,2,3,6,7,8-HxCDD-13C	2.00	66
Total PeCDD	8.30	-----	0.083		1,2,3,4,6,7,8-HpCDF-13C	2.00	72
					1,2,3,4,7,8,9-HpCDF-13C	2.00	82
1,2,3,4,7,8-HxCDF	3.70	-----	0.140	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	80
1,2,3,6,7,8-HxCDF	4.10	-----	0.160	J	OCDD-13C	4.00	89
2,3,4,6,7,8-HxCDF	5.60	-----	0.069				
1,2,3,7,8,9-HxCDF	0.94	-----	0.071	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	110.00	-----	0.110		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	5.90	-----	0.190		2,3,7,8-TCDD-37Cl4	0.20	98
1,2,3,6,7,8-HxCDD	18.00	-----	0.200				
1,2,3,7,8,9-HxCDD	14.00	-----	0.200				
Total HxCDD	92.00	-----	0.200				
1,2,3,4,6,7,8-HpCDF	120.00	-----	0.077		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	7.70	-----	0.350		Equivalence: 4.2 ng/Kg		
Total HpCDF	360.00	-----	0.210		(Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD	410.00	-----	0.350				
Total HpCDD	700.00	-----	0.350				
OCDF	410.00	-----	0.049				
OCDD	2900.00	-----	0.070				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
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ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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J = Estimated value

REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID	SU-3-1 (PYSW)		
Lab Sample ID	10369113007		
Filename	U161122C_11		
Injected By	BAL		
Total Amount Extracted	10.5 g	Matrix	Soil
% Moisture	1.2	Dilution	NA
Dry Weight Extracted	10.4 g	Collected	10/26/2016 10:00
ICAL ID	U161025	Received	11/08/2016 09:40
CCal Filename(s)	U161122B_16 & U161122C_17	Extracted	11/11/2016 17:05
Method Blank ID	BLANK-52766	Analyzed	11/23/2016 07:34

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.30	0.075	IJ	2,3,7,8-TCDF-13C	2.00	82
Total TCDF	9.70	-----	0.075		2,3,7,8-TCDD-13C	2.00	88
					1,2,3,7,8-PeCDF-13C	2.00	79
2,3,7,8-TCDD	0.25	-----	0.084	J	2,3,4,7,8-PeCDF-13C	2.00	80
Total TCDD	1.10	-----	0.084		1,2,3,7,8-PeCDD-13C	2.00	85
					1,2,3,4,7,8-HxCDF-13C	2.00	78
1,2,3,7,8-PeCDF	1.20	-----	0.200	J	1,2,3,6,7,8-HxCDF-13C	2.00	72
2,3,4,7,8-PeCDF	1.90	-----	0.071	J	2,3,4,6,7,8-HxCDF-13C	2.00	81
Total PeCDF	83.00	-----	0.130		1,2,3,7,8,9-HxCDF-13C	2.00	92
					1,2,3,4,7,8-HxCDD-13C	2.00	78
1,2,3,7,8-PeCDD	3.30	-----	0.066	J	1,2,3,6,7,8-HxCDD-13C	2.00	62
Total PeCDD	14.00	-----	0.066		1,2,3,4,6,7,8-HpCDF-13C	2.00	67
					1,2,3,4,7,8,9-HpCDF-13C	2.00	78
1,2,3,4,7,8-HxCDF	11.00	-----	0.240		1,2,3,4,6,7,8-HpCDD-13C	2.00	75
1,2,3,6,7,8-HxCDF	12.00	-----	0.091		OCDD-13C	4.00	85
2,3,4,6,7,8-HxCDF	16.00	-----	0.110				
1,2,3,7,8,9-HxCDF	2.00	-----	0.150	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	310.00	-----	0.140		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	9.70	-----	0.190		2,3,7,8-TCDD-37Cl4	0.20	92
1,2,3,6,7,8-HxCDD	30.00	-----	0.160				
1,2,3,7,8,9-HxCDD	23.00	-----	0.210				
Total HxCDD	160.00	-----	0.190				
1,2,3,4,6,7,8-HpCDF	360.00	-----	0.042		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	24.00	-----	0.460		Equivalence: 7.6 ng/Kg		
Total HpCDF	960.00	-----	0.250		(Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD	700.00	-----	0.770				
Total HpCDD	1200.00	-----	0.770				
OCDF	1200.00	-----	0.060				
OCDD	5000.00	-----	0.072	E			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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E = Exceeds calibration range
I = Interference present

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID	SU-3-2 (PYSW)		
Lab Sample ID	10369113008		
Filename	U161122C_12		
Injected By	BAL		
Total Amount Extracted	10.3 g	Matrix	Soil
% Moisture	0.9	Dilution	NA
Dry Weight Extracted	10.2 g	Collected	10/26/2016 10:00
ICAL ID	U161025	Received	11/08/2016 09:40
CCal Filename(s)	U161122B_16 & U161122C_17	Extracted	11/11/2016 17:05
Method Blank ID	BLANK-52766	Analyzed	11/23/2016 08:20

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.23	-----	0.110	J	2,3,7,8-TCDF-13C	2.00	89
Total TCDF	5.80	-----	0.110		2,3,7,8-TCDD-13C	2.00	95
					1,2,3,7,8-PeCDF-13C	2.00	86
2,3,7,8-TCDD	-----	0.11	0.095	IJ	2,3,4,7,8-PeCDF-13C	2.00	85
Total TCDD	0.71	-----	0.095	J	1,2,3,7,8-PeCDD-13C	2.00	91
					1,2,3,4,7,8-HxCDF-13C	2.00	86
1,2,3,7,8-PeCDF	0.73	-----	0.210	J	1,2,3,6,7,8-HxCDF-13C	2.00	80
2,3,4,7,8-PeCDF	1.20	-----	0.120	J	2,3,4,6,7,8-HxCDF-13C	2.00	91
Total PeCDF	50.00	-----	0.170		1,2,3,7,8,9-HxCDF-13C	2.00	104
					1,2,3,4,7,8-HxCDD-13C	2.00	86
1,2,3,7,8-PeCDD	2.40	-----	0.140	J	1,2,3,6,7,8-HxCDD-13C	2.00	70
Total PeCDD	9.40	-----	0.140		1,2,3,4,6,7,8-HpCDF-13C	2.00	75
					1,2,3,4,7,8,9-HpCDF-13C	2.00	85
1,2,3,4,7,8-HxCDF	8.00	-----	0.160		1,2,3,4,6,7,8-HpCDD-13C	2.00	83
1,2,3,6,7,8-HxCDF	8.20	-----	0.220		OCDD-13C	4.00	96
2,3,4,6,7,8-HxCDF	10.00	-----	0.160				
1,2,3,7,8,9-HxCDF	1.40	-----	0.087	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	220.00	-----	0.160		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	8.10	-----	0.140		2,3,7,8-TCDD-37Cl4	0.20	96
1,2,3,6,7,8-HxCDD	21.00	-----	0.140				
1,2,3,7,8,9-HxCDD	16.00	-----	0.250				
Total HxCDD	110.00	-----	0.180				
1,2,3,4,6,7,8-HpCDF	270.00	-----	0.048		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	20.00	-----	0.430		Equivalence: 5.6 ng/Kg		
Total HpCDF	750.00	-----	0.240		(Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD	560.00	-----	0.650				
Total HpCDD	920.00	-----	0.650				
OCDF	980.00	-----	0.073				
OCDD	4600.00	-----	0.068	E			

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REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID	SU-3-3 (PYSW)		
Lab Sample ID	10369113009		
Filename	U161122C_13		
Injected By	BAL		
Total Amount Extracted	11.3 g	Matrix	Soil
% Moisture	3.5	Dilution	NA
Dry Weight Extracted	10.9 g	Collected	10/26/2016 10:00
ICAL ID	U161025	Received	11/08/2016 09:40
CCal Filename(s)	U161122B_16 & U161122C_17	Extracted	11/11/2016 17:05
Method Blank ID	BLANK-52766	Analyzed	11/23/2016 09:06

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.23	-----	0.085	J	2,3,7,8-TCDF-13C	2.00	83
Total TCDF	6.70	-----	0.085		2,3,7,8-TCDD-13C	2.00	88
					1,2,3,7,8-PeCDF-13C	2.00	78
2,3,7,8-TCDD	-----	0.094	0.072	IJ	2,3,4,7,8-PeCDF-13C	2.00	78
Total TCDD	0.38	-----	0.072	J	1,2,3,7,8-PeCDD-13C	2.00	82
					1,2,3,4,7,8-HxCDF-13C	2.00	82
1,2,3,7,8-PeCDF	0.65	-----	0.160	J	1,2,3,6,7,8-HxCDF-13C	2.00	73
2,3,4,7,8-PeCDF	1.10	-----	0.089	J	2,3,4,6,7,8-HxCDF-13C	2.00	85
Total PeCDF	53.00	-----	0.130		1,2,3,7,8,9-HxCDF-13C	2.00	93
					1,2,3,4,7,8-HxCDD-13C	2.00	80
1,2,3,7,8-PeCDD	2.40	-----	0.150	J	1,2,3,6,7,8-HxCDD-13C	2.00	64
Total PeCDD	8.50	-----	0.150		1,2,3,4,6,7,8-HpCDF-13C	2.00	69
					1,2,3,4,7,8,9-HpCDF-13C	2.00	79
1,2,3,4,7,8-HxCDF	6.90	-----	0.083		1,2,3,4,6,7,8-HpCDD-13C	2.00	76
1,2,3,6,7,8-HxCDF	7.90	-----	0.130		OCDD-13C	4.00	89
2,3,4,6,7,8-HxCDF	11.00	-----	0.049				
1,2,3,7,8,9-HxCDF	1.20	-----	0.098	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	200.00	-----	0.091		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	7.10	-----	0.440		2,3,7,8-TCDD-37Cl4	0.20	94
1,2,3,6,7,8-HxCDD	19.00	-----	0.200				
1,2,3,7,8,9-HxCDD	15.00	-----	0.240				
Total HxCDD	110.00	-----	0.290				
1,2,3,4,6,7,8-HpCDF	250.00	-----	0.190		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	17.00	-----	0.220		Equivalence: 5.1 ng/Kg		
Total HpCDF	670.00	-----	0.200		(Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD	470.00	-----	0.960				
Total HpCDD	790.00	-----	0.960				
OCDF	830.00	-----	2.800				
OCDD	3400.00	-----	11.000				

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID	SU-4-1 (PYB)		
Lab Sample ID	10369113010		
Filename	U161122C_14		
Injected By	BAL		
Total Amount Extracted	10.3 g	Matrix	Soil
% Moisture	0.4	Dilution	NA
Dry Weight Extracted	10.3 g	Collected	10/27/2016 10:00
ICAL ID	U161025	Received	11/08/2016 09:40
CCal Filename(s)	U161122B_16 & U161122C_17	Extracted	11/14/2016 15:05
Method Blank ID	BLANK-52781	Analyzed	11/23/2016 09:53

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.18	0.077	IJ	2,3,7,8-TCDF-13C	2.00	82
Total TCDF	9.00	-----	0.077		2,3,7,8-TCDD-13C	2.00	87
					1,2,3,7,8-PeCDF-13C	2.00	81
2,3,7,8-TCDD	-----	0.12	0.095	IJ	2,3,4,7,8-PeCDF-13C	2.00	80
Total TCDD	0.62	-----	0.095	J	1,2,3,7,8-PeCDD-13C	2.00	85
					1,2,3,4,7,8-HxCDF-13C	2.00	79
1,2,3,7,8-PeCDF	1.60	-----	0.220	J	1,2,3,6,7,8-HxCDF-13C	2.00	74
2,3,4,7,8-PeCDF	2.70	-----	0.180	J	2,3,4,6,7,8-HxCDF-13C	2.00	83
Total PeCDF	100.00	-----	0.200		1,2,3,7,8,9-HxCDF-13C	2.00	92
					1,2,3,4,7,8-HxCDD-13C	2.00	81
1,2,3,7,8-PeCDD	4.40	-----	0.170	J	1,2,3,6,7,8-HxCDD-13C	2.00	64
Total PeCDD	17.00	-----	0.170		1,2,3,4,6,7,8-HpCDF-13C	2.00	75
					1,2,3,4,7,8,9-HpCDF-13C	2.00	83
1,2,3,4,7,8-HxCDF	20.00	-----	0.230		1,2,3,4,6,7,8-HpCDD-13C	2.00	84
1,2,3,6,7,8-HxCDF	21.00	-----	0.240		OCDD-13C	4.00	103
2,3,4,6,7,8-HxCDF	26.00	-----	0.160				
1,2,3,7,8,9-HxCDF	4.00	-----	0.180	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	520.00	-----	0.200		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	15.00	-----	0.220		2,3,7,8-TCDD-37Cl4	0.20	95
1,2,3,6,7,8-HxCDD	54.00	-----	0.190				
1,2,3,7,8,9-HxCDD	33.00	-----	0.420				
Total HxCDD	250.00	-----	0.280				
1,2,3,4,6,7,8-HpCDF	680.00	-----	0.110		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	55.00	-----	0.370		Equivalence: 13 ng/Kg		
Total HpCDF	2000.00	-----	0.240		(Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD	1500.00	-----	1.100				
Total HpCDD	2300.00	-----	1.100				
OCDF	2500.00	-----	0.063				
OCDD	12000.00	-----	0.073	E			

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REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID	SU-4-2 (PYB)		
Lab Sample ID	10369113011		
Filename	U161122C_15		
Injected By	BAL		
Total Amount Extracted	10.3 g	Matrix	Soil
% Moisture	0.4	Dilution	NA
Dry Weight Extracted	10.3 g	Collected	10/27/2016 10:00
ICAL ID	U161025	Received	11/08/2016 09:40
CCal Filename(s)	U161122B_16 & U161122C_17	Extracted	11/14/2016 15:05
Method Blank ID	BLANK-52781	Analyzed	11/23/2016 10:39

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.21	-----	0.091	J	2,3,7,8-TCDF-13C	2.00	91
Total TCDF	8.60	-----	0.190		2,3,7,8-TCDD-13C	2.00	98
					1,2,3,7,8-PeCDF-13C	2.00	88
2,3,7,8-TCDD	-----	0.13	0.093	IJ	2,3,4,7,8-PeCDF-13C	2.00	84
Total TCDD	0.44	-----	0.220	J	1,2,3,7,8-PeCDD-13C	2.00	92
					1,2,3,4,7,8-HxCDF-13C	2.00	88
1,2,3,7,8-PeCDF	1.90	-----	0.210	J	1,2,3,6,7,8-HxCDF-13C	2.00	84
2,3,4,7,8-PeCDF	3.00	-----	0.110	J	2,3,4,6,7,8-HxCDF-13C	2.00	95
Total PeCDF	110.00	-----	0.210		1,2,3,7,8,9-HxCDF-13C	2.00	105
					1,2,3,4,7,8-HxCDD-13C	2.00	94
1,2,3,7,8-PeCDD	4.10	-----	0.360	J	1,2,3,6,7,8-HxCDD-13C	2.00	72
Total PeCDD	13.00	-----	0.540		1,2,3,4,6,7,8-HpCDF-13C	2.00	85
					1,2,3,4,7,8,9-HpCDF-13C	2.00	93
1,2,3,4,7,8-HxCDF	22.00	-----	0.340		1,2,3,4,6,7,8-HpCDD-13C	2.00	96
1,2,3,6,7,8-HxCDF	22.00	-----	0.210		OCDD-13C	4.00	118
2,3,4,6,7,8-HxCDF	27.00	-----	0.230				
1,2,3,7,8,9-HxCDF	4.60	-----	0.160	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	600.00	-----	0.340		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	17.00	-----	1.700		2,3,7,8-TCDD-37Cl4	0.20	102
1,2,3,6,7,8-HxCDD	60.00	-----	0.660				
1,2,3,7,8,9-HxCDD	37.00	-----	0.620				
Total HxCDD	270.00	-----	1.100				
1,2,3,4,6,7,8-HpCDF	740.00	-----	0.740		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	59.00	-----	3.600		Equivalence: 13 ng/Kg		
Total HpCDF	2300.00	-----	2.700		(Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD	1500.00	-----	4.500				
Total HpCDD	2500.00	-----	6.000				
OCDF	2800.00	-----	0.032				
OCDD	13000.00	-----	0.170	E			

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Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID	SU-4-3 (PYB)		
Lab Sample ID	10369113012		
Filename	F161120B_10		
Injected By	BAL		
Total Amount Extracted	10.4 g	Matrix	Soil
% Moisture	0.4	Dilution	NA
Dry Weight Extracted	10.4 g	Collected	10/27/2016 10:00
ICAL ID	F161011	Received	11/08/2016 09:40
CCal Filename(s)	F161120A_09 & F161120B_15	Extracted	11/14/2016 15:05
Method Blank ID	BLANK-52781	Analyzed	11/20/2016 18:44

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.38		2,3,7,8-TCDF-13C	2.00	83
Total TCDF	4.60	-----	0.38		2,3,7,8-TCDD-13C	2.00	93
					1,2,3,7,8-PeCDF-13C	2.00	87
2,3,7,8-TCDD	ND	-----	0.26		2,3,4,7,8-PeCDF-13C	2.00	75
Total TCDD	0.31	-----	0.26	J	1,2,3,7,8-PeCDD-13C	2.00	81
					1,2,3,4,7,8-HxCDF-13C	2.00	95
1,2,3,7,8-PeCDF	1.80	-----	0.19	J	1,2,3,6,7,8-HxCDF-13C	2.00	94
2,3,4,7,8-PeCDF	3.30	-----	0.18	J	2,3,4,6,7,8-HxCDF-13C	2.00	92
Total PeCDF	120.00	-----	0.18		1,2,3,7,8,9-HxCDF-13C	2.00	97
					1,2,3,4,7,8-HxCDD-13C	2.00	79
1,2,3,7,8-PeCDD	5.80	-----	0.21		1,2,3,6,7,8-HxCDD-13C	2.00	76
Total PeCDD	20.00	-----	0.21		1,2,3,4,6,7,8-HpCDF-13C	2.00	73
					1,2,3,4,7,8,9-HpCDF-13C	2.00	71
1,2,3,4,7,8-HxCDF	21.00	-----	0.39		1,2,3,4,6,7,8-HpCDD-13C	2.00	88
1,2,3,6,7,8-HxCDF	20.00	-----	0.55		OCDD-13C	4.00	71
2,3,4,6,7,8-HxCDF	27.00	-----	0.34				
1,2,3,7,8,9-HxCDF	4.40	-----	0.60	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	710.00	-----	0.47		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	23.00	-----	0.50		2,3,7,8-TCDD-37Cl4	0.20	89
1,2,3,6,7,8-HxCDD	67.00	-----	0.38				
1,2,3,7,8,9-HxCDD	46.00	-----	0.30				
Total HxCDD	340.00	-----	0.40				
1,2,3,4,6,7,8-HpCDF	650.00	-----	0.61		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	58.00	-----	1.50		Equivalence: 16 ng/Kg		
Total HpCDF	2100.00	-----	1.00		(Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD	1800.00	-----	0.15				
Total HpCDD	2800.00	-----	0.15				
OCDF	3100.00	-----	0.14				
OCDD	16000.00	-----	0.12	E			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
J = Estimated value
E = Exceeds calibration range

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Minneapolis, MN 55414

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Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID	SU-5-1 (PYSW)		
Lab Sample ID	10369113013		
Filename	F161120B_11		
Injected By	BAL		
Total Amount Extracted	10.5 g	Matrix	Soil
% Moisture	0.5	Dilution	NA
Dry Weight Extracted	10.4 g	Collected	10/28/2016 12:30
ICAL ID	F161011	Received	11/08/2016 09:40
CCal Filename(s)	F161120A_09 & F161120B_15	Extracted	11/14/2016 15:05
Method Blank ID	BLANK-52781	Analyzed	11/20/2016 19:32

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.23		2,3,7,8-TCDF-13C	2.00	77
Total TCDF	3.20	-----	0.23		2,3,7,8-TCDD-13C	2.00	89
					1,2,3,7,8-PeCDF-13C	2.00	77
2,3,7,8-TCDD	ND	-----	0.21		2,3,4,7,8-PeCDF-13C	2.00	70
Total TCDD	ND	-----	0.21		1,2,3,7,8-PeCDD-13C	2.00	73
					1,2,3,4,7,8-HxCDF-13C	2.00	85
1,2,3,7,8-PeCDF	0.87	-----	0.26	J	1,2,3,6,7,8-HxCDF-13C	2.00	89
2,3,4,7,8-PeCDF	1.50	-----	0.22	J	2,3,4,6,7,8-HxCDF-13C	2.00	88
Total PeCDF	38.00	-----	0.24		1,2,3,7,8,9-HxCDF-13C	2.00	92
					1,2,3,4,7,8-HxCDD-13C	2.00	74
1,2,3,7,8-PeCDD	1.50	-----	0.23	J	1,2,3,6,7,8-HxCDD-13C	2.00	73
Total PeCDD	3.10	-----	0.23	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	67
					1,2,3,4,7,8,9-HpCDF-13C	2.00	65
1,2,3,4,7,8-HxCDF	6.10	-----	0.33		1,2,3,4,6,7,8-HpCDD-13C	2.00	79
1,2,3,6,7,8-HxCDF	6.10	-----	0.26		OCDD-13C	4.00	61
2,3,4,6,7,8-HxCDF	8.20	-----	0.26				
1,2,3,7,8,9-HxCDF	-----	1.9	0.37	IJ	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	200.00	-----	0.31		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	5.10	-----	0.53		2,3,7,8-TCDD-37Cl4	0.20	86
1,2,3,6,7,8-HxCDD	22.00	-----	0.31				
1,2,3,7,8,9-HxCDD	11.00	-----	0.39				
Total HxCDD	97.00	-----	0.41				
1,2,3,4,6,7,8-HpCDF	200.00	-----	0.60		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	14.00	-----	0.89		Equivalence: 4.4 ng/Kg		
Total HpCDF	570.00	-----	0.75		(Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD	560.00	-----	1.40				
Total HpCDD	880.00	-----	1.40				
OCDF	790.00	-----	0.12				
OCDD	4500.00	-----	0.34				

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID	SU-5-2 (PYSW)		
Lab Sample ID	10369113014		
Filename	F161120B_12		
Injected By	BAL		
Total Amount Extracted	10.4 g	Matrix	Soil
% Moisture	0.5	Dilution	NA
Dry Weight Extracted	10.3 g	Collected	10/28/2016 12:30
ICAL ID	F161011	Received	11/08/2016 09:40
CCal Filename(s)	F161120A_09 & F161120B_15	Extracted	11/14/2016 15:05
Method Blank ID	BLANK-52781	Analyzed	11/20/2016 20:20

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.13		2,3,7,8-TCDF-13C	2.00	82
Total TCDF	0.53	-----	0.13	J	2,3,7,8-TCDD-13C	2.00	90
					1,2,3,7,8-PeCDF-13C	2.00	76
2,3,7,8-TCDD	ND	-----	0.13		2,3,4,7,8-PeCDF-13C	2.00	70
Total TCDD	ND	-----	0.13		1,2,3,7,8-PeCDD-13C	2.00	74
					1,2,3,4,7,8-HxCDF-13C	2.00	87
1,2,3,7,8-PeCDF	0.27	-----	0.15	J	1,2,3,6,7,8-HxCDF-13C	2.00	91
2,3,4,7,8-PeCDF	-----	0.41	0.11	IJ	2,3,4,6,7,8-HxCDF-13C	2.00	92
Total PeCDF	14.00	-----	0.13		1,2,3,7,8,9-HxCDF-13C	2.00	91
					1,2,3,4,7,8-HxCDD-13C	2.00	77
1,2,3,7,8-PeCDD	-----	0.72	0.24	IJ	1,2,3,6,7,8-HxCDD-13C	2.00	75
Total PeCDD	0.94	-----	0.24	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	68
					1,2,3,4,7,8,9-HpCDF-13C	2.00	68
1,2,3,4,7,8-HxCDF	2.30	-----	0.27	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	79
1,2,3,6,7,8-HxCDF	2.10	-----	0.18	J	OCDD-13C	4.00	61
2,3,4,6,7,8-HxCDF	2.90	-----	0.24	J			
1,2,3,7,8,9-HxCDF	0.53	-----	0.19	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	69.00	-----	0.22		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	2.90	-----	0.31	J	2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	9.00	-----	0.27				
1,2,3,7,8,9-HxCDD	5.60	-----	0.41				
Total HxCDD	42.00	-----	0.33				
1,2,3,4,6,7,8-HpCDF	74.00	-----	0.56		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	5.30	-----	0.91		Equivalence: 1.9 ng/Kg		
Total HpCDF	220.00	-----	0.73		(Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD	230.00	-----	1.70				
Total HpCDD	360.00	-----	1.70				
OCDF	340.00	-----	0.24				
OCDD	1900.00	-----	0.35				

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I = Interference present

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID	SU-5-3 (PYSW)		
Lab Sample ID	10369113015		
Filename	F161120B_13		
Injected By	BAL		
Total Amount Extracted	10.6 g	Matrix	Soil
% Moisture	0.5	Dilution	NA
Dry Weight Extracted	10.5 g	Collected	10/28/2016 12:30
ICAL ID	F161011	Received	11/08/2016 09:40
CCal Filename(s)	F161120A_09 & F161120B_15	Extracted	11/14/2016 15:05
Method Blank ID	BLANK-52781	Analyzed	11/20/2016 21:08

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.22		2,3,7,8-TCDF-13C	2.00	80
Total TCDF	0.25	-----	0.22	J	2,3,7,8-TCDD-13C	2.00	91
					1,2,3,7,8-PeCDF-13C	2.00	79
2,3,7,8-TCDD	ND	-----	0.18		2,3,4,7,8-PeCDF-13C	2.00	74
Total TCDD	ND	-----	0.18		1,2,3,7,8-PeCDD-13C	2.00	76
					1,2,3,4,7,8-HxCDF-13C	2.00	90
1,2,3,7,8-PeCDF	0.24	-----	0.17	J	1,2,3,6,7,8-HxCDF-13C	2.00	90
2,3,4,7,8-PeCDF	0.46	-----	0.14	J	2,3,4,6,7,8-HxCDF-13C	2.00	94
Total PeCDF	16.00	-----	0.16		1,2,3,7,8,9-HxCDF-13C	2.00	92
					1,2,3,4,7,8-HxCDD-13C	2.00	79
1,2,3,7,8-PeCDD	0.69	-----	0.32	J	1,2,3,6,7,8-HxCDD-13C	2.00	72
Total PeCDD	0.69	-----	0.32	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	69
					1,2,3,4,7,8,9-HpCDF-13C	2.00	68
1,2,3,4,7,8-HxCDF	2.90	-----	0.40	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	80
1,2,3,6,7,8-HxCDF	2.80	-----	0.39	J	OCDD-13C	4.00	63
2,3,4,6,7,8-HxCDF	4.10	-----	0.21	J			
1,2,3,7,8,9-HxCDF	0.88	-----	0.30	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	110.00	-----	0.33		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	2.70	-----	0.33	J	2,3,7,8-TCDD-37Cl4	0.20	82
1,2,3,6,7,8-HxCDD	9.60	-----	0.35				
1,2,3,7,8,9-HxCDD	5.10	-----	0.37				
Total HxCDD	42.00	-----	0.35				
1,2,3,4,6,7,8-HpCDF	130.00	-----	0.68		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	9.30	-----	0.70		Equivalence: 2.3 ng/Kg		
Total HpCDF	470.00	-----	0.69		(Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD	220.00	-----	1.40				
Total HpCDD	350.00	-----	1.40				
OCDF	670.00	-----	0.25				
OCDD	1700.00	-----	0.25				

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NC = Not Calculated

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J = Estimated value

REPORT OF LABORATORY ANALYSIS

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Method 8290 Blank Analysis Results

Lab Sample ID	BLANK-52766	Matrix	Solid
Filename	F161116A_08	Dilution	NA
Total Amount Extracted	75.0 g	Extracted	11/11/2016 17:05
ICAL ID	F161011	Analyzed	11/16/2016 17:53
CCal Filename(s)	F161116A_01 & F161116A_16	Injected By	SMT

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.0200		2,3,7,8-TCDF-13C	2.00	72
Total TCDF	ND	-----	0.0200		2,3,7,8-TCDD-13C	2.00	84
					1,2,3,7,8-PeCDF-13C	2.00	78
2,3,7,8-TCDD	ND	-----	0.0160		2,3,4,7,8-PeCDF-13C	2.00	73
Total TCDD	ND	-----	0.0160		1,2,3,7,8-PeCDD-13C	2.00	78
					1,2,3,4,7,8-HxCDF-13C	2.00	83
1,2,3,7,8-PeCDF	ND	-----	0.0073		1,2,3,6,7,8-HxCDF-13C	2.00	89
2,3,4,7,8-PeCDF	ND	-----	0.0068		2,3,4,6,7,8-HxCDF-13C	2.00	90
Total PeCDF	ND	-----	0.0071		1,2,3,7,8,9-HxCDF-13C	2.00	88
					1,2,3,4,7,8-HxCDD-13C	2.00	80
1,2,3,7,8-PeCDD	ND	-----	0.0120		1,2,3,6,7,8-HxCDD-13C	2.00	70
Total PeCDD	ND	-----	0.0120		1,2,3,4,6,7,8-HpCDF-13C	2.00	72
					1,2,3,4,7,8,9-HpCDF-13C	2.00	74
1,2,3,4,7,8-HxCDF	ND	-----	0.0098		1,2,3,4,6,7,8-HpCDD-13C	2.00	85
1,2,3,6,7,8-HxCDF	ND	-----	0.0075		OCDD-13C	4.00	71
2,3,4,6,7,8-HxCDF	ND	-----	0.0091				
1,2,3,7,8,9-HxCDF	ND	-----	0.0120		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.0095		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.0120		2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,6,7,8-HxCDD	ND	-----	0.0160				
1,2,3,7,8,9-HxCDD	ND	-----	0.0140				
Total HxCDD	ND	-----	0.0140				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.0086		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.0130		Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	-----	0.0110		(Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.0110				
Total HpCDD	ND	-----	0.0110				
OCDF	ND	-----	0.0220				
OCDD	-----	0.033	0.0210	IJ			

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REPORT OF LABORATORY ANALYSIS

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Method 8290 Blank Analysis Results

Lab Sample ID	BLANK-52781	Matrix	Solid
Filename	U161119A_03	Dilution	NA
Total Amount Extracted	10.2 g	Extracted	11/14/2016 15:05
ICAL ID	U161025	Analyzed	11/19/2016 08:02
CCal Filename(s)	U161118B_16 & U161119A_16	Injected By	BAL

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.064		2,3,7,8-TCDF-13C	2.00	68
Total TCDF	ND	-----	0.064		2,3,7,8-TCDD-13C	2.00	84
					1,2,3,7,8-PeCDF-13C	2.00	60
2,3,7,8-TCDD	ND	-----	0.058		2,3,4,7,8-PeCDF-13C	2.00	53
Total TCDD	ND	-----	0.058		1,2,3,7,8-PeCDD-13C	2.00	57
					1,2,3,4,7,8-HxCDF-13C	2.00	75
1,2,3,7,8-PeCDF	ND	-----	0.070		1,2,3,6,7,8-HxCDF-13C	2.00	74
2,3,4,7,8-PeCDF	ND	-----	0.049		2,3,4,6,7,8-HxCDF-13C	2.00	80
Total PeCDF	0.11	-----	0.059	J	1,2,3,7,8,9-HxCDF-13C	2.00	88
					1,2,3,4,7,8-HxCDD-13C	2.00	78
1,2,3,7,8-PeCDD	ND	-----	0.086		1,2,3,6,7,8-HxCDD-13C	2.00	72
Total PeCDD	ND	-----	0.086		1,2,3,4,6,7,8-HpCDF-13C	2.00	79
					1,2,3,4,7,8,9-HpCDF-13C	2.00	82
1,2,3,4,7,8-HxCDF	ND	-----	0.044		1,2,3,4,6,7,8-HpCDD-13C	2.00	94
1,2,3,6,7,8-HxCDF	ND	-----	0.037		OCDD-13C	4.00	75
2,3,4,6,7,8-HxCDF	ND	-----	0.045				
1,2,3,7,8,9-HxCDF	ND	-----	0.059		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.046		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.050		2,3,7,8-TCDD-37Cl4	0.20	82
1,2,3,6,7,8-HxCDD	ND	-----	0.074				
1,2,3,7,8,9-HxCDD	ND	-----	0.056				
Total HxCDD	ND	-----	0.060				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.047		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.072		Equivalence: 0.00011 ng/Kg		
Total HpCDF	ND	-----	0.060		(Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.088				
Total HpCDD	0.15	-----	0.088	J			
OCDF	ND	-----	0.110				
OCDD	0.38	-----	0.140	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
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EDL = Estimated Detection Limit

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REPORT OF LABORATORY ANALYSIS

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-52767		
Filename	F161116A_06	Matrix	Solid
Total Amount Extracted	75.9 g	Dilution	NA
ICAL ID	F161011	Extracted	11/11/2016 17:05
CCal Filename(s)	F161116A_01 & F161116A_16	Analyzed	11/16/2016 16:16
Method Blank ID	BLANK-52766	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.23	116	2,3,7,8-TCDF-13C	2.0	67
Total TCDF				2,3,7,8-TCDD-13C	2.0	78
				1,2,3,7,8-PeCDF-13C	2.0	75
2,3,7,8-TCDD	0.20	0.17	84	2,3,4,7,8-PeCDF-13C	2.0	71
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	78
				1,2,3,4,7,8-HxCDF-13C	2.0	76
1,2,3,7,8-PeCDF	1.0	1.1	113	1,2,3,6,7,8-HxCDF-13C	2.0	83
2,3,4,7,8-PeCDF	1.0	1.2	118	2,3,4,6,7,8-HxCDF-13C	2.0	84
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	82
				1,2,3,4,7,8-HxCDD-13C	2.0	75
1,2,3,7,8-PeCDD	1.0	0.98	98	1,2,3,6,7,8-HxCDD-13C	2.0	66
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	66
				1,2,3,4,7,8,9-HpCDF-13C	2.0	69
1,2,3,4,7,8-HxCDF	1.0	1.2	119	1,2,3,4,6,7,8-HpCDD-13C	2.0	78
1,2,3,6,7,8-HxCDF	1.0	1.1	112	OCDD-13C	4.0	67
2,3,4,6,7,8-HxCDF	1.0	1.1	105			
1,2,3,7,8,9-HxCDF	1.0	1.0	103	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.0	105	2,3,7,8-TCDD-37Cl4	0.20	72
1,2,3,6,7,8-HxCDD	1.0	1.3	128			
1,2,3,7,8,9-HxCDD	1.0	1.2	117			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	1.0	102			
1,2,3,4,7,8,9-HpCDF	1.0	0.94	94			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.89	89			
Total HpCDD						
OCDF	2.0	2.3	115			
OCDD	2.0	2.1	106			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range
Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-52782		
Filename	U161119A_01	Matrix	Solid
Total Amount Extracted	10.1 g	Dilution	NA
ICAL ID	U161025	Extracted	11/14/2016 15:05
CCal Filename(s)	U161118B_16 & U161119A_16	Analyzed	11/19/2016 06:31
Method Blank ID	BLANK-52781	Injected By	BAL

Native Isomers	**Qs** (ng)	**Qm** (ng)	% Rec.	**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	0.20	0.21	104	2,3,7,8-TCDF-13C	2.0	80
Total TCDF				2,3,7,8-TCDD-13C	2.0	95
				1,2,3,7,8-PeCDF-13C	2.0	61
2,3,7,8-TCDD	0.20	0.18	88	2,3,4,7,8-PeCDF-13C	2.0	59
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	70
				1,2,3,4,7,8-HxCDF-13C	2.0	75
1,2,3,7,8-PeCDF	1.0	1.1	107	1,2,3,6,7,8-HxCDF-13C	2.0	74
2,3,4,7,8-PeCDF	1.0	1.1	110	2,3,4,6,7,8-HxCDF-13C	2.0	82
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	89
				1,2,3,4,7,8-HxCDD-13C	2.0	83
1,2,3,7,8-PeCDD	1.0	0.99	99	1,2,3,6,7,8-HxCDD-13C	2.0	71
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	79
				1,2,3,4,7,8,9-HpCDF-13C	2.0	83
1,2,3,4,7,8-HxCDF	1.0	1.1	110	1,2,3,4,6,7,8-HpCDD-13C	2.0	91
1,2,3,6,7,8-HxCDF	1.0	1.1	107	OCDD-13C	4.0	66
2,3,4,6,7,8-HxCDF	1.0	1.0	104			
1,2,3,7,8,9-HxCDF	1.0	1.0	102	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.1	111	2,3,7,8-TCDD-37Cl4	0.20	95
1,2,3,6,7,8-HxCDD	1.0	1.2	117			
1,2,3,7,8,9-HxCDD	1.0	1.2	122			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	1.1	113			
1,2,3,4,7,8,9-HpCDF	1.0	1.0	101			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	1.0	103			
Total HpCDD						
OCDF	2.0	2.1	107			
OCDD	2.0	2.2	111			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range
Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Report Prepared for:

Aaron DeWees
Resource Laboratory Inc
124 Heritage Avenue
Unit 16
Portsmouth NH 03801

REPORT OF LABORATORY ANALYSIS FOR PCDD/PCDF

Report Information:

Pace Project #: 10369117
Sample Receipt Date: 11/08/2016
Client Project #: 38414
Client Sub PO #: 38414
State Cert #: 2007029

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Scott Unze, your Pace Project Manager.

This report has been reviewed by:

December 01, 2016

Scott Unze, Project Manager
(612) 607-6383
(612) 607-6444 (fax)
scott.unze@pacelabs.com

Report Prepared Date:
December 1, 2016

Report of Laboratory Analysis

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

DISCUSSION

This report presents the results from the analyses performed on twelve samples submitted by a representative of Absolute Resource Associates. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290. Estimated Maximum Possible Concentration (EMPC) values were treated as positives in the toxic equivalence calculations. The reporting limits were based on signal-to-noise measurements.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 54-188%. Except for two elevated values, which were flagged "R" on the results tables, the labeled standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

Values were flagged "I" where incorrect isotope ratios were obtained. Concentrations below the calibration range were flagged "J" and should be regarded as estimates. Concentrations above the calibration range were flagged "E" and should also be regarded as estimates.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank to contain trace levels of selected congeners. These levels were below the calibration range of the method. The levels reported for the affected congeners in the field samples were higher than the corresponding blank levels by one or more orders of magnitude. These results indicate that the sample processing steps did not contribute significantly to the levels reported for the field samples.

A laboratory spike sample was also prepared with the sample batch using clean sand that had been fortified with native standard materials. The results show that the spiked native compounds were recovered at 88-122%; these results were within the target range for the method. Matrix spikes were prepared with the sample batch using sample material from a separate project; results from these analyses will be provided upon request.

Pace Analytical Services, Inc.
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Tel: 612-607-1700
Fax: 612- 607-6444

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Mississippi	MN00064
Alabama	40770	Montana	92
Alaska	MN00064	Nebraska	NE-OS-18-06
Arizona	AZ0014	Nevada	MN_00064_200
Arkansas	88-0680	New Jersey (NE	MN002
California	01155CA	New York (NEL	11647
Colorado	MN00064	North Carolina	27700
Connecticut	PH-0256	North Dakota	R-036
EPA Region 8	8TMS-Q	Ohio	4150
Florida (NELAP	E87605	Oklahoma	D9922
Georgia (DNR)	959	Oregon (ELAP)	MN200001-005
Guam	959	Oregon (OREL	MN300001-001
Hawaii	SLD	Pennsylvania	68-00563
Idaho	MN00064	Puerto Rico	MN00064
Illinois	200012	Saipan	MP0003
Indiana	C-MN-01	South Carolina	74003001
Indiana	C-MN-01	Tennessee	TN02818
Iowa	368	Texas	T104704192-08
Kansas	E-10167	Utah (NELAP)	MN00064
Kentucky	90062	Virginia	00251
Louisiana	03086	Washington	C755
Maine	2007029	West Virginia #	9952C
Maryland	322	West Virginia D	382
Michigan	9909	Wisconsin	999407970
Minnesota	027-053-137	Wyoming	8TMS-Q

REPORT OF LABORATORY ANALYSIS

Appendix A

Sample Management

Absolute Resource associates

SUBCONTRACT CHAIN OF CUSTODY DOCUMENTATION

10369117

Client:	Absolute Resource Associates	Contact:	Aaron DeWees	Phone: 603-436-2001 Fax:	Page 1 of 2
Report to:	Aaron DeWees/Jane Stratton	Address:	124 Heritage Ave, #16	Project Name/Number: 38414	
Invoice to:	cathyd@absoluteresourceassociates.com		Portsmouth, NH 03801	Project State: NH MA (ME) VT	
PO#: 38414	Quote #:			Protocol: RCRA SDWA NPDES MCP NHDES Other	

Lab Number: (assigned by laboratory)	Field ID: (must agree with container)	Date Sampled	Time Sampled	Sampled By	Container Size (mL)	Container Type (P/G/T)	Field Preservation	Matrix S=Soil W=Water	Analyses Requested: Special Instructions:
	SU-6-1 (PyB)	10/28	1300			G		S	Dioxin 001
	SU-6-2	"	"			"		"	002
	SU-6-3	"	"			"		"	003
	SU-7-1 (PySW)	"	1500			"		"	004
	SU-7-2	"	"			"		"	005
	SU-7-3	"	"			"		"	006
	SU-8-1 (PySW)	"	1510			"		"	007
	SU-8-2	"	"			"		"	008
	SU-8-3	"	"			"		"	009
	SU-9-1 (DPSW)	"	1420			"		"	010
	SU-9-2	"	"			"		"	011

Subcontract Laboratory: _____

Relinquished by:	Date:	Time:	Received by: Natasha / PACE	Date: 11-8-16	Time: 9:40
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Reporting Instructions: PDF (Email Address: aarond@absoluteresourceassociates.com; janes@absoluteresourceassociates.com)

Received on ice? (Y) N

Excel File: Y / N

Temp: 1.4°C

TAT Requested: Priority (24hr) Expedited (48hr) 10 Business days Date needed:

Comments:

QSD-21 4/15/16 Rev0 ajd (pg 1/1)

Absolute Resource associates

SUBCONTRACT CHAIN OF CUSTODY DOCUMENTATION

Client:	Absolute Resource Associates	Contact:	Aaron DeWees	Phone: 603-436-2001 Fax:	Page 2 of 2
Report to:	Aaron DeWees/Jane Stratton	Address:	124 Heritage Ave, #16	Project Name/Number: 38414	
Invoice to:	cathyd@absoluteresourceassociates.com		Portsmouth, NH 03801	Project State: NH MA (ME) VT	
PO#: 38414	Quote #:			Protocol: RCRA SDWA NPDES MCP NHDES Other	

Lab Number: (assigned by laboratory)	Field ID: (must agree with container)	Date Sampled	Time Sampled	Sampled By	Container Size (mL)	Container Type (P/G/T)	Field Preservation	Matrix S=Soil W=Water	Analyses Requested: Special Instructions:
	SW-9-3 (DPSW)	10/28	1420			G		S	Dioxin 012

Subcontract Laboratory: _____

Relinquished by:	Date:	Time:	Received by: Katadhin / PACE	Date: 11-8-16	Time: 9:40
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Reporting Instructions: PDF (Email Address: aarond@absoluteresourceassociates.com; janes@absoluteresourceassociates.com)

Excel File: Y / N

Received on ice? (Y) N

Temp: 1.4°C

TAT Requested: Priority (24hr) Expedited (48hr) 10 Business days Date needed:

Comments:

QSD-21 4/15/16 Rev0 ajd (pg 1/1)

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 02Aug2016 Page 1 of 2
	Document No.: **F-MN-L-213-rev.17**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Absolute Resource Associates

Project #: WO# : 10369117

10369117

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

Tracking Number: 1Z 317 EW0 01 6599 5557

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: **Temp Blank?** ☐ Yes ☒ No

Thermometer Used: ☒ 151401163 ☐ 151401164 ☐ B88A912167504 ☐ B88A0143310098 **Type of Ice:** ☒ Wet ☒ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): 1.5 **Cooler Temp Corrected (°C):** 1.4 **Biological Tissue Frozen?** ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C **Correction Factor:** -0.1 **Date and Initials of Person Examining Contents:** 11.8.16 NK

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☒ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☐ Yes	☒ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☐ Yes	☒ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	7.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☐ Yes	☒ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: Soil	☐ Yes	☒ No	☐ N/A	12. Date/time/analysis only on COC not on label
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☒ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☒ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	☐ Yes	☐ No	☒ N/A	Initial when completed: Lot # of added preservative:
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☒ N/A	14.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	
Pace Trip Blank Lot # (if purchased):				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Nathan Boberg **Date:** 11/9/16

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).

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
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Reporting Flags

A = Reporting Limit based on signal to noise

B = Less than 10x higher than method blank level

C = Result obtained from confirmation analysis

D = Result obtained from analysis of diluted sample

E = Exceeds calibration range

I = Interference present

J = Estimated value

Nn = Value obtained from additional analysis

P = PCDE Interference

R = Recovery outside target range

S = Peak saturated

U = Analyte not detected

V = Result verified by confirmation analysis

X = %D Exceeds limits

Y = Calculated using average of daily RFs

* = See Discussion

Appendix B

Sample Analysis Summary

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID	SU-6-1 (PYB)		
Lab Sample ID	10369117001		
Filename	F161121A_02		
Injected By	BAL		
Total Amount Extracted	10.3 g	Matrix	Solid
% Moisture	0.2	Dilution	NA
Dry Weight Extracted	10.3 g	Collected	10/28/2016 13:00
ICAL ID	F161011	Received	11/08/2016 09:40
CCal Filename(s)	F161120B_15 & F161121A_15	Extracted	11/14/2016 15:05
Method Blank ID	BLANK-52781	Analyzed	11/21/2016 00:21

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.24		2,3,7,8-TCDF-13C	2.00	83
Total TCDF	1.10	-----	0.24		2,3,7,8-TCDD-13C	2.00	94
					1,2,3,7,8-PeCDF-13C	2.00	82
2,3,7,8-TCDD	ND	-----	0.13		2,3,4,7,8-PeCDF-13C	2.00	75
Total TCDD	ND	-----	0.13		1,2,3,7,8-PeCDD-13C	2.00	78
					1,2,3,4,7,8-HxCDF-13C	2.00	89
1,2,3,7,8-PeCDF	0.69	-----	0.34	J	1,2,3,6,7,8-HxCDF-13C	2.00	97
2,3,4,7,8-PeCDF	-----	1.3	0.20	IJ	2,3,4,6,7,8-HxCDF-13C	2.00	97
Total PeCDF	33.00	-----	0.27		1,2,3,7,8,9-HxCDF-13C	2.00	97
					1,2,3,4,7,8-HxCDD-13C	2.00	82
1,2,3,7,8-PeCDD	2.40	-----	0.23	J	1,2,3,6,7,8-HxCDD-13C	2.00	73
Total PeCDD	4.50	-----	0.23	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	72
					1,2,3,4,7,8,9-HpCDF-13C	2.00	71
1,2,3,4,7,8-HxCDF	5.30	-----	0.47		1,2,3,4,6,7,8-HpCDD-13C	2.00	82
1,2,3,6,7,8-HxCDF	4.30	-----	0.60	J	OCDD-13C	4.00	76
2,3,4,6,7,8-HxCDF	6.50	-----	0.57				
1,2,3,7,8,9-HxCDF	1.60	-----	0.30	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	180.00	-----	0.49		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	7.30	-----	0.43		2,3,7,8-TCDD-37Cl4	0.20	88
1,2,3,6,7,8-HxCDD	29.00	-----	0.48				
1,2,3,7,8,9-HxCDD	16.00	-----	0.68				
Total HxCDD	130.00	-----	0.53				
1,2,3,4,6,7,8-HpCDF	140.00	-----	0.66		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	12.00	-----	1.20		Equivalence: 5.3 ng/Kg		
Total HpCDF	510.00	-----	0.94		(Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD	670.00	-----	2.50				
Total HpCDD	1100.00	-----	2.50				
OCDF	710.00	-----	0.21				
OCDD	5700.00	-----	0.22	E			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
J = Estimated value
E = Exceeds calibration range
I = Interference present

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID	SU-6-2 (PYB)		
Lab Sample ID	10369117002		
Filename	F161121A_03		
Injected By	BAL		
Total Amount Extracted	10.5 g	Matrix	Solid
% Moisture	0.2	Dilution	NA
Dry Weight Extracted	10.5 g	Collected	10/28/2016 13:00
ICAL ID	F161011	Received	11/08/2016 09:40
CCal Filename(s)	F161120B_15 & F161121A_15	Extracted	11/14/2016 15:05
Method Blank ID	BLANK-52781	Analyzed	11/21/2016 01:09

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.36		2,3,7,8-TCDF-13C	2.00	80
Total TCDF	4.7	-----	0.36		2,3,7,8-TCDD-13C	2.00	90
					1,2,3,7,8-PeCDF-13C	2.00	79
2,3,7,8-TCDD	ND	-----	0.20		2,3,4,7,8-PeCDF-13C	2.00	74
Total TCDD	ND	-----	0.20		1,2,3,7,8-PeCDD-13C	2.00	76
					1,2,3,4,7,8-HxCDF-13C	2.00	91
1,2,3,7,8-PeCDF	-----	1.2	0.32	IJ	1,2,3,6,7,8-HxCDF-13C	2.00	94
2,3,4,7,8-PeCDF	2.7	-----	0.16	J	2,3,4,6,7,8-HxCDF-13C	2.00	97
Total PeCDF	68.0	-----	0.24		1,2,3,7,8,9-HxCDF-13C	2.00	97
					1,2,3,4,7,8-HxCDD-13C	2.00	82
1,2,3,7,8-PeCDD	4.2	-----	0.35	J	1,2,3,6,7,8-HxCDD-13C	2.00	75
Total PeCDD	13.0	-----	0.35		1,2,3,4,6,7,8-HpCDF-13C	2.00	72
					1,2,3,4,7,8,9-HpCDF-13C	2.00	73
1,2,3,4,7,8-HxCDF	12.0	-----	1.40		1,2,3,4,6,7,8-HpCDD-13C	2.00	88
1,2,3,6,7,8-HxCDF	11.0	-----	0.96		OCDD-13C	4.00	75
2,3,4,6,7,8-HxCDF	16.0	-----	0.30				
1,2,3,7,8,9-HxCDF	-----	2.7	0.46	IJ	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	210.0	-----	0.78		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	16.0	-----	0.69		2,3,7,8-TCDD-37Cl4	0.20	87
1,2,3,6,7,8-HxCDD	55.0	-----	0.92				
1,2,3,7,8,9-HxCDD	34.0	-----	0.82				
Total HxCDD	240.0	-----	0.81				
1,2,3,4,6,7,8-HpCDF	350.0	-----	1.20		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	34.0	-----	1.50		Equivalence: 11 ng/Kg		
Total HpCDF	1300.0	-----	1.40		(Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD	1400.0	-----	2.90				
Total HpCDD	2200.0	-----	2.90				
OCDF	1800.0	-----	0.15				
OCDD	12000.0	-----	0.20	E			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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J = Estimated value
E = Exceeds calibration range
I = Interference present

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID	SU-6-3 (PYB)		
Lab Sample ID	10369117003		
Filename	F161121A_04		
Injected By	BAL		
Total Amount Extracted	10.4 g	Matrix	Solid
% Moisture	0.2	Dilution	NA
Dry Weight Extracted	10.4 g	Collected	10/28/2016 13:00
ICAL ID	F161011	Received	11/08/2016 09:40
CCal Filename(s)	F161120B_15 & F161121A_15	Extracted	11/14/2016 15:05
Method Blank ID	BLANK-52781	Analyzed	11/21/2016 01:58

Native Isomers	**Conc** ng/Kg	**EMPC** ng/Kg	**EDL** ng/Kg		**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	ND	-----	0.26		2,3,7,8-TCDF-13C	2.00	80
Total TCDF	1.7	-----	0.26		2,3,7,8-TCDD-13C	2.00	90
					1,2,3,7,8-PeCDF-13C	2.00	78
2,3,7,8-TCDD	ND	-----	0.17		2,3,4,7,8-PeCDF-13C	2.00	72
Total TCDD	ND	-----	0.17		1,2,3,7,8-PeCDD-13C	2.00	75
					1,2,3,4,7,8-HxCDF-13C	2.00	91
1,2,3,7,8-PeCDF	-----	0.98	0.23	IJ	1,2,3,6,7,8-HxCDF-13C	2.00	96
2,3,4,7,8-PeCDF	2.1	-----	0.18	J	2,3,4,6,7,8-HxCDF-13C	2.00	97
Total PeCDF	52.0	-----	0.20		1,2,3,7,8,9-HxCDF-13C	2.00	94
					1,2,3,4,7,8-HxCDD-13C	2.00	79
1,2,3,7,8-PeCDD	3.3	-----	0.23	J	1,2,3,6,7,8-HxCDD-13C	2.00	76
Total PeCDD	8.4	-----	0.23		1,2,3,4,6,7,8-HpCDF-13C	2.00	71
					1,2,3,4,7,8,9-HpCDF-13C	2.00	70
1,2,3,4,7,8-HxCDF	8.1	-----	0.76		1,2,3,4,6,7,8-HpCDD-13C	2.00	84
1,2,3,6,7,8-HxCDF	7.3	-----	0.80		OCDD-13C	4.00	67
2,3,4,6,7,8-HxCDF	11.0	-----	0.38				
1,2,3,7,8,9-HxCDF	2.1	-----	0.48	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	170.0	-----	0.61		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	12.0	-----	0.66		2,3,7,8-TCDD-37Cl4	0.20	86
1,2,3,6,7,8-HxCDD	45.0	-----	0.56				
1,2,3,7,8,9-HxCDD	24.0	-----	0.68				
Total HxCDD	190.0	-----	0.63				
1,2,3,4,6,7,8-HpCDF	240.0	-----	1.10		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	20.0	-----	1.40		Equivalence: 8.0 ng/Kg		
Total HpCDF	800.0	-----	1.20		(Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD	1000.0	-----	2.50				
Total HpCDD	1600.0	-----	2.50				
OCDF	1100.0	-----	0.18				
OCDD	7900.0	-----	0.20	E			

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E = Exceeds calibration range
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REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID	SU-7-1 (PYSW)		
Lab Sample ID	10369117004		
Filename	F161121A_05		
Injected By	BAL		
Total Amount Extracted	10.3 g	Matrix	Solid
% Moisture	0.9	Dilution	NA
Dry Weight Extracted	10.2 g	Collected	10/28/2016 15:00
ICAL ID	F161011	Received	11/08/2016 09:40
CCal Filename(s)	F161120B_15 & F161121A_15	Extracted	11/14/2016 15:05
Method Blank ID	BLANK-52781	Analyzed	11/21/2016 02:46

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.200		2,3,7,8-TCDF-13C	2.00	78
Total TCDF	1.10	-----	0.200		2,3,7,8-TCDD-13C	2.00	88
					1,2,3,7,8-PeCDF-13C	2.00	75
2,3,7,8-TCDD	ND	-----	0.160		2,3,4,7,8-PeCDF-13C	2.00	69
Total TCDD	ND	-----	0.160		1,2,3,7,8-PeCDD-13C	2.00	70
					1,2,3,4,7,8-HxCDF-13C	2.00	87
1,2,3,7,8-PeCDF	-----	0.23	0.130	IJ	1,2,3,6,7,8-HxCDF-13C	2.00	91
2,3,4,7,8-PeCDF	0.48	-----	0.090	J	2,3,4,6,7,8-HxCDF-13C	2.00	92
Total PeCDF	8.50	-----	0.110		1,2,3,7,8,9-HxCDF-13C	2.00	92
					1,2,3,4,7,8-HxCDD-13C	2.00	74
1,2,3,7,8-PeCDD	-----	0.56	0.250	IJ	1,2,3,6,7,8-HxCDD-13C	2.00	72
Total PeCDD	0.37	-----	0.250	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	66
					1,2,3,4,7,8,9-HpCDF-13C	2.00	67
1,2,3,4,7,8-HxCDF	1.50	-----	0.350	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	76
1,2,3,6,7,8-HxCDF	1.30	-----	0.280	J	OCDD-13C	4.00	56
2,3,4,6,7,8-HxCDF	2.30	-----	0.180	J			
1,2,3,7,8,9-HxCDF	ND	-----	0.390		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	45.00	-----	0.300		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	2.60	-----	0.420	J	2,3,7,8-TCDD-37Cl4	0.20	80
1,2,3,6,7,8-HxCDD	7.70	-----	0.480				
1,2,3,7,8,9-HxCDD	5.30	-----	0.580				
Total HxCDD	24.00	-----	0.490				
1,2,3,4,6,7,8-HpCDF	50.00	-----	0.590		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	3.50	-----	0.770	J	Equivalence: 1.5 ng/Kg		
Total HpCDF	150.00	-----	0.680		(Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD	200.00	-----	1.300				
Total HpCDD	320.00	-----	1.300				
OCDF	230.00	-----	0.120				
OCDD	1700.00	-----	0.320				

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REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID	SU-7-2 (PYSW)		
Lab Sample ID	10369117005		
Filename	F161121A_06		
Injected By	BAL		
Total Amount Extracted	10.4 g	Matrix	Solid
% Moisture	1.0	Dilution	NA
Dry Weight Extracted	10.3 g	Collected	10/28/2016 15:00
ICAL ID	F161011	Received	11/08/2016 09:40
CCal Filename(s)	F161120B_15 & F161121A_15	Extracted	11/14/2016 15:05
Method Blank ID	BLANK-52781	Analyzed	11/21/2016 03:34

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.17		2,3,7,8-TCDF-13C	2.00	75
Total TCDF	0.36	-----	0.17	J	2,3,7,8-TCDD-13C	2.00	85
					1,2,3,7,8-PeCDF-13C	2.00	75
2,3,7,8-TCDD	ND	-----	0.15		2,3,4,7,8-PeCDF-13C	2.00	69
Total TCDD	ND	-----	0.15		1,2,3,7,8-PeCDD-13C	2.00	72
					1,2,3,4,7,8-HxCDF-13C	2.00	87
1,2,3,7,8-PeCDF	ND	-----	0.17		1,2,3,6,7,8-HxCDF-13C	2.00	91
2,3,4,7,8-PeCDF	ND	-----	0.12		2,3,4,6,7,8-HxCDF-13C	2.00	95
Total PeCDF	3.30	-----	0.15	J	1,2,3,7,8,9-HxCDF-13C	2.00	93
					1,2,3,4,7,8-HxCDD-13C	2.00	75
1,2,3,7,8-PeCDD	-----	0.22	0.19	IJ	1,2,3,6,7,8-HxCDD-13C	2.00	76
Total PeCDD	ND	-----	0.19		1,2,3,4,6,7,8-HpCDF-13C	2.00	65
					1,2,3,4,7,8,9-HpCDF-13C	2.00	63
1,2,3,4,7,8-HxCDF	-----	0.36	0.26	IJ	1,2,3,4,6,7,8-HpCDD-13C	2.00	72
1,2,3,6,7,8-HxCDF	-----	0.45	0.24	IJ	OCDD-13C	4.00	54
2,3,4,6,7,8-HxCDF	0.75	-----	0.22	J			
1,2,3,7,8,9-HxCDF	ND	-----	0.17		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	12.00	-----	0.22		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	-----	0.22	J	2,3,7,8-TCDD-37Cl4	0.20	79
1,2,3,6,7,8-HxCDD	2.30	-----	0.25	J			
1,2,3,7,8,9-HxCDD	-----	1.50	0.27	IJ			
Total HxCDD	12.00	-----	0.25				
1,2,3,4,6,7,8-HpCDF	16.00	-----	0.43		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	1.20	-----	0.40	J	Equivalence: 0.46 ng/Kg		
Total HpCDF	45.00	-----	0.41		(Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD	60.00	-----	0.80				
Total HpCDD	96.00	-----	0.80				
OCDF	60.00	-----	0.30				
OCDD	440.00	-----	0.24				

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REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID	SU-7-3 (PYSW)		
Lab Sample ID	10369117006		
Filename	F161121A_07		
Injected By	BAL		
Total Amount Extracted	10.3 g	Matrix	Solid
% Moisture	1.2	Dilution	NA
Dry Weight Extracted	10.2 g	Collected	10/28/2016 15:00
ICAL ID	F161011	Received	11/08/2016 09:40
CCal Filename(s)	F161120B_15 & F161121A_15	Extracted	11/14/2016 15:05
Method Blank ID	BLANK-52781	Analyzed	11/21/2016 04:22

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.180		2,3,7,8-TCDF-13C	2.00	83
Total TCDF	ND	-----	0.180		2,3,7,8-TCDD-13C	2.00	92
					1,2,3,7,8-PeCDF-13C	2.00	81
2,3,7,8-TCDD	ND	-----	0.150		2,3,4,7,8-PeCDF-13C	2.00	74
Total TCDD	ND	-----	0.150		1,2,3,7,8-PeCDD-13C	2.00	78
					1,2,3,4,7,8-HxCDF-13C	2.00	90
1,2,3,7,8-PeCDF	ND	-----	0.100		1,2,3,6,7,8-HxCDF-13C	2.00	96
2,3,4,7,8-PeCDF	0.17	-----	0.077	J	2,3,4,6,7,8-HxCDF-13C	2.00	98
Total PeCDF	3.20	-----	0.090	J	1,2,3,7,8,9-HxCDF-13C	2.00	95
					1,2,3,4,7,8-HxCDD-13C	2.00	76
1,2,3,7,8-PeCDD	-----	0.13	0.110	IJ	1,2,3,6,7,8-HxCDD-13C	2.00	79
Total PeCDD	0.32	-----	0.110	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	70
					1,2,3,4,7,8,9-HpCDF-13C	2.00	67
1,2,3,4,7,8-HxCDF	0.42	-----	0.300	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	77
1,2,3,6,7,8-HxCDF	0.40	-----	0.190	J	OCDD-13C	4.00	56
2,3,4,6,7,8-HxCDF	0.65	-----	0.180	J			
1,2,3,7,8,9-HxCDF	ND	-----	0.200		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	12.00	-----	0.220		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	0.63	-----	0.230	J	2,3,7,8-TCDD-37Cl4	0.20	87
1,2,3,6,7,8-HxCDD	1.70	-----	0.200	J			
1,2,3,7,8,9-HxCDD	-----	1.20	0.200	IJ			
Total HxCDD	9.20	-----	0.210				
1,2,3,4,6,7,8-HpCDF	15.00	-----	0.310		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	1.30	-----	0.500	J	Equivalence: 0.38 ng/Kg		
Total HpCDF	46.00	-----	0.400		(Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD	51.00	-----	0.750				
Total HpCDD	81.00	-----	0.750				
OCDF	67.00	-----	0.300				
OCDD	410.00	-----	0.290				

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REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID	SU-8-1 (PYSW)		
Lab Sample ID	10369117007		
Filename	F161121A_08		
Injected By	BAL		
Total Amount Extracted	10.5 g	Matrix	Solid
% Moisture	1.5	Dilution	NA
Dry Weight Extracted	10.3 g	Collected	10/28/2016 15:10
ICAL ID	F161011	Received	11/08/2016 09:40
CCal Filename(s)	F161120B_15 & F161121A_15	Extracted	11/14/2016 15:05
Method Blank ID	BLANK-52781	Analyzed	11/21/2016 05:10

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.27		2,3,7,8-TCDF-13C	2.00	77
Total TCDF	5.50	-----	0.27		2,3,7,8-TCDD-13C	2.00	87
					1,2,3,7,8-PeCDF-13C	2.00	79
2,3,7,8-TCDD	ND	-----	0.22		2,3,4,7,8-PeCDF-13C	2.00	71
Total TCDD	ND	-----	0.22		1,2,3,7,8-PeCDD-13C	2.00	75
					1,2,3,4,7,8-HxCDF-13C	2.00	81
1,2,3,7,8-PeCDF	0.97	-----	0.22	J	1,2,3,6,7,8-HxCDF-13C	2.00	90
2,3,4,7,8-PeCDF	1.50	-----	0.17	J	2,3,4,6,7,8-HxCDF-13C	2.00	97
Total PeCDF	65.00	-----	0.20		1,2,3,7,8,9-HxCDF-13C	2.00	90
					1,2,3,4,7,8-HxCDD-13C	2.00	76
1,2,3,7,8-PeCDD	2.60	-----	0.22	J	1,2,3,6,7,8-HxCDD-13C	2.00	71
Total PeCDD	8.30	-----	0.22		1,2,3,4,6,7,8-HpCDF-13C	2.00	70
					1,2,3,4,7,8,9-HpCDF-13C	2.00	76
1,2,3,4,7,8-HxCDF	11.00	-----	0.62		1,2,3,4,6,7,8-HpCDD-13C	2.00	81
1,2,3,6,7,8-HxCDF	11.00	-----	0.48		OCDD-13C	4.00	70
2,3,4,6,7,8-HxCDF	13.00	-----	0.43				
1,2,3,7,8,9-HxCDF	2.00	-----	0.69	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	200.00	-----	0.56		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	8.80	-----	0.52		2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	26.00	-----	0.31				
1,2,3,7,8,9-HxCDD	18.00	-----	0.46				
Total HxCDD	150.00	-----	0.43				
1,2,3,4,6,7,8-HpCDF	330.00	-----	2.30		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	25.00	-----	2.90		Equivalence: 7.2 ng/Kg		
Total HpCDF	950.00	-----	2.60		(Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD	740.00	-----	2.40				
Total HpCDD	1200.00	-----	2.40				
OCDF	1900.00	-----	0.91				
OCDD	7200.00	-----	1.60	E			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
J = Estimated value
E = Exceeds calibration range

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Minneapolis, MN 55414

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Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID	SU-8-2 (PYSW)		
Lab Sample ID	10369117008		
Filename	F161121A_09		
Injected By	BAL		
Total Amount Extracted	10.5 g	Matrix	Solid
% Moisture	2.3	Dilution	NA
Dry Weight Extracted	10.3 g	Collected	10/28/2016 15:10
ICAL ID	F161011	Received	11/08/2016 09:40
CCal Filename(s)	F161120B_15 & F161121A_15	Extracted	11/14/2016 15:05
Method Blank ID	BLANK-52781	Analyzed	11/21/2016 05:58

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.25		2,3,7,8-TCDF-13C	2.00	80
Total TCDF	3.50	-----	0.25		2,3,7,8-TCDD-13C	2.00	91
					1,2,3,7,8-PeCDF-13C	2.00	102
2,3,7,8-TCDD	ND	-----	0.21		2,3,4,7,8-PeCDF-13C	2.00	119
Total TCDD	ND	-----	0.21		1,2,3,7,8-PeCDD-13C	2.00	105
					1,2,3,4,7,8-HxCDF-13C	2.00	96
1,2,3,7,8-PeCDF	0.58	-----	0.28	J	1,2,3,6,7,8-HxCDF-13C	2.00	94
2,3,4,7,8-PeCDF	0.88	-----	0.20	J	2,3,4,6,7,8-HxCDF-13C	2.00	94
Total PeCDF	22.00	-----	0.24		1,2,3,7,8,9-HxCDF-13C	2.00	95
					1,2,3,4,7,8-HxCDD-13C	2.00	81
1,2,3,7,8-PeCDD	0.85	-----	0.20	J	1,2,3,6,7,8-HxCDD-13C	2.00	73
Total PeCDD	3.80	-----	0.20	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	68
					1,2,3,4,7,8,9-HpCDF-13C	2.00	68
1,2,3,4,7,8-HxCDF	4.60	-----	0.30	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	79
1,2,3,6,7,8-HxCDF	6.10	-----	0.31		OCDD-13C	4.00	59
2,3,4,6,7,8-HxCDF	6.10	-----	0.32				
1,2,3,7,8,9-HxCDF	0.74	-----	0.26	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	140.00	-----	0.30		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	2.20	-----	0.31	J	2,3,7,8-TCDD-37Cl4	0.20	88
1,2,3,6,7,8-HxCDD	6.70	-----	0.27				
1,2,3,7,8,9-HxCDD	5.80	-----	0.34				
Total HxCDD	48.00	-----	0.30				
1,2,3,4,6,7,8-HpCDF	160.00	-----	0.56		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	9.70	-----	0.53		Equivalence: 2.3 ng/Kg		
Total HpCDF	370.00	-----	0.55		(Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD	180.00	-----	0.81				
Total HpCDD	300.00	-----	0.81				
OCDF	510.00	-----	0.25				
OCDD	1300.00	-----	0.32				

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ND = Not Detected
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NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
J = Estimated value

REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID	SU-8-3 (PYSW)		
Lab Sample ID	10369117009		
Filename	F161121A_10		
Injected By	BAL		
Total Amount Extracted	10.3 g	Matrix	Solid
% Moisture	1.7	Dilution	NA
Dry Weight Extracted	10.1 g	Collected	10/28/2016 15:10
ICAL ID	F161011	Received	11/08/2016 09:40
CCal Filename(s)	F161120B_15 & F161121A_15	Extracted	11/14/2016 15:05
Method Blank ID	BLANK-52781	Analyzed	11/21/2016 06:46

Native Isomers	**Conc** ng/Kg	**EMPC** ng/Kg	**EDL** ng/Kg		**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	ND	-----	0.13		2,3,7,8-TCDF-13C	2.00	86
Total TCDF	4.30	-----	0.13		2,3,7,8-TCDD-13C	2.00	94
					1,2,3,7,8-PeCDF-13C	2.00	85
2,3,7,8-TCDD	ND	-----	0.12		2,3,4,7,8-PeCDF-13C	2.00	78
Total TCDD	ND	-----	0.12		1,2,3,7,8-PeCDD-13C	2.00	81
					1,2,3,4,7,8-HxCDF-13C	2.00	95
1,2,3,7,8-PeCDF	0.92	-----	0.26	J	1,2,3,6,7,8-HxCDF-13C	2.00	97
2,3,4,7,8-PeCDF	1.30	-----	0.14	J	2,3,4,6,7,8-HxCDF-13C	2.00	99
Total PeCDF	55.00	-----	0.20		1,2,3,7,8,9-HxCDF-13C	2.00	99
					1,2,3,4,7,8-HxCDD-13C	2.00	81
1,2,3,7,8-PeCDD	2.00	-----	0.22	J	1,2,3,6,7,8-HxCDD-13C	2.00	77
Total PeCDD	9.40	-----	0.22		1,2,3,4,6,7,8-HpCDF-13C	2.00	72
					1,2,3,4,7,8,9-HpCDF-13C	2.00	71
1,2,3,4,7,8-HxCDF	9.70	-----	0.25		1,2,3,4,6,7,8-HpCDD-13C	2.00	87
1,2,3,6,7,8-HxCDF	9.10	-----	0.20		OCDD-13C	4.00	67
2,3,4,6,7,8-HxCDF	11.00	-----	0.24				
1,2,3,7,8,9-HxCDF	1.90	-----	0.41	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	270.00	-----	0.28		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	7.10	-----	0.42		2,3,7,8-TCDD-37Cl4	0.20	89
1,2,3,6,7,8-HxCDD	24.00	-----	0.44				
1,2,3,7,8,9-HxCDD	15.00	-----	0.59				
Total HxCDD	130.00	-----	0.48				
1,2,3,4,6,7,8-HpCDF	310.00	-----	1.80		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	25.00	-----	1.60		Equivalence: 6.0 ng/Kg		
Total HpCDF	340.00	-----	1.70		(Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD	690.00	-----	2.60				
Total HpCDD	1100.00	-----	2.60				
OCDF	1400.00	-----	0.20				
OCDD	6400.00	-----	0.23	E			

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E = Exceeds calibration range

REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID	SU-9-1 (DPSW)		
Lab Sample ID	10369117010		
Filename	F161121A_11		
Injected By	BAL		
Total Amount Extracted	10.3 g	Matrix	Solid
% Moisture	2.5	Dilution	NA
Dry Weight Extracted	10.0 g	Collected	10/28/2016 14:20
ICAL ID	F161011	Received	11/08/2016 09:40
CCal Filename(s)	F161120B_15 & F161121A_15	Extracted	11/14/2016 15:05
Method Blank ID	BLANK-52781	Analyzed	11/21/2016 07:35

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	0.49	-----	0.29	J	2,3,7,8-TCDF-13C	2.00	85	
Total TCDF	13.00	-----	0.29		2,3,7,8-TCDD-13C	2.00	95	
					1,2,3,7,8-PeCDF-13C	2.00	83	
2,3,7,8-TCDD	0.35	-----	0.21	J	2,3,4,7,8-PeCDF-13C	2.00	80	
Total TCDD	0.91	-----	0.21	J	1,2,3,7,8-PeCDD-13C	2.00	78	
					1,2,3,4,7,8-HxCDF-13C	2.00	99	
1,2,3,7,8-PeCDF	2.60	-----	0.14	J	1,2,3,6,7,8-HxCDF-13C	2.00	105	
2,3,4,7,8-PeCDF	5.80	-----	0.20		2,3,4,6,7,8-HxCDF-13C	2.00	108	
Total PeCDF	180.00	-----	0.17		1,2,3,7,8,9-HxCDF-13C	2.00	188	R
					1,2,3,4,7,8-HxCDD-13C	2.00	97	
1,2,3,7,8-PeCDD	15.00	-----	0.56		1,2,3,6,7,8-HxCDD-13C	2.00	84	
Total PeCDD	48.00	-----	0.56		1,2,3,4,6,7,8-HpCDF-13C	2.00	78	
					1,2,3,4,7,8,9-HpCDF-13C	2.00	89	
1,2,3,4,7,8-HxCDF	27.00	-----	0.50		1,2,3,4,6,7,8-HpCDD-13C	2.00	106	
1,2,3,6,7,8-HxCDF	26.00	-----	0.38		OCDD-13C	4.00	81	
2,3,4,6,7,8-HxCDF	33.00	-----	0.36					
1,2,3,7,8,9-HxCDF	5.90	-----	0.21		1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	470.00	-----	0.36		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	51.00	-----	1.70		2,3,7,8-TCDD-37Cl4	0.20	84	
1,2,3,6,7,8-HxCDD	130.00	-----	1.50					
1,2,3,7,8,9-HxCDD	83.00	-----	1.20					
Total HxCDD	650.00	-----	1.40					
1,2,3,4,6,7,8-HpCDF	780.00	-----	1.90		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	51.00	-----	1.70		Equivalence: 28 ng/Kg			
Total HpCDF	840.00	-----	1.80		(Using MEDEP Factors)			
1,2,3,4,6,7,8-HpCDD	2900.00	-----	4.60	E				
Total HpCDD	4700.00	-----	4.60	E				
OCDF	2900.00	-----	0.20					
OCDD	24000.00	-----	0.15	E				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
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REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID	SU-9-2 (DPSW)		
Lab Sample ID	10369117011		
Filename	F161121A_12		
Injected By	BAL		
Total Amount Extracted	10.5 g	Matrix	Solid
% Moisture	1.6	Dilution	NA
Dry Weight Extracted	10.3 g	Collected	10/28/2016 14:20
ICAL ID	F161011	Received	11/08/2016 09:40
CCal Filename(s)	F161120B_15 & F161121A_15	Extracted	11/14/2016 15:05
Method Blank ID	BLANK-52781	Analyzed	11/21/2016 08:23

Native Isomers	**Conc** ng/Kg	**EMPC** ng/Kg	**EDL** ng/Kg		**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	0.93	-----	0.370	J	2,3,7,8-TCDF-13C	2.00	83
Total TCDF	17.00	-----	0.370		2,3,7,8-TCDD-13C	2.00	91
					1,2,3,7,8-PeCDF-13C	2.00	82
2,3,7,8-TCDD	0.42	-----	0.270	J	2,3,4,7,8-PeCDF-13C	2.00	76
Total TCDD	1.50	-----	0.270		1,2,3,7,8-PeCDD-13C	2.00	80
					1,2,3,4,7,8-HxCDF-13C	2.00	83
1,2,3,7,8-PeCDF	4.40	-----	0.310	J	1,2,3,6,7,8-HxCDF-13C	2.00	94
2,3,4,7,8-PeCDF	9.50	-----	0.150		2,3,4,6,7,8-HxCDF-13C	2.00	87
Total PeCDF	230.00	-----	0.230		1,2,3,7,8,9-HxCDF-13C	2.00	99
					1,2,3,4,7,8-HxCDD-13C	2.00	72
1,2,3,7,8-PeCDD	15.00	-----	0.350		1,2,3,6,7,8-HxCDD-13C	2.00	74
Total PeCDD	56.00	-----	0.350		1,2,3,4,6,7,8-HpCDF-13C	2.00	64
					1,2,3,4,7,8,9-HpCDF-13C	2.00	69
1,2,3,4,7,8-HxCDF	27.00	-----	0.650		1,2,3,4,6,7,8-HpCDD-13C	2.00	87
1,2,3,6,7,8-HxCDF	27.00	-----	0.340		OCDD-13C	4.00	66
2,3,4,6,7,8-HxCDF	37.00	-----	0.370				
1,2,3,7,8,9-HxCDF	9.50	-----	0.450		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	900.00	-----	0.450		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	49.00	-----	0.850		2,3,7,8-TCDD-37Cl4	0.20	87
1,2,3,6,7,8-HxCDD	160.00	-----	1.200				
1,2,3,7,8,9-HxCDD	96.00	-----	0.920				
Total HxCDD	780.00	-----	0.990				
1,2,3,4,6,7,8-HpCDF	760.00	-----	2.000		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	46.00	-----	2.100		Equivalence: 30 ng/Kg		
Total HpCDF	2400.00	-----	2.000		(Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD	3200.00	-----	4.300	E			
Total HpCDD	5400.00	-----	4.300	E			
OCDF	2600.00	-----	0.091				
OCDD	26000.00	-----	0.140	E			

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REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - Resource Laboratory Inc

Client's Sample ID	SU-9-3 (DPSW)		
Lab Sample ID	10369117012		
Filename	F161121A_13		
Injected By	BAL		
Total Amount Extracted	10.3 g	Matrix	Solid
% Moisture	1.8	Dilution	NA
Dry Weight Extracted	10.1 g	Collected	10/28/2016 14:20
ICAL ID	F161011	Received	11/08/2016 09:40
CCal Filename(s)	F161120B_15 & F161121A_15	Extracted	11/14/2016 15:05
Method Blank ID	BLANK-52781	Analyzed	11/21/2016 09:11

Native Isomers	**Conc** ng/Kg	**EMPC** ng/Kg	**EDL** ng/Kg		**Internal Standards**	**ng's Added**	**Percent Recovery**	
2,3,7,8-TCDF	0.60	-----	0.37	J	2,3,7,8-TCDF-13C	2.00	83	
Total TCDF	22.00	-----	0.37		2,3,7,8-TCDD-13C	2.00	94	
					1,2,3,7,8-PeCDF-13C	2.00	84	
2,3,7,8-TCDD	0.59	-----	0.23	J	2,3,4,7,8-PeCDF-13C	2.00	78	
Total TCDD	2.70	-----	0.23		1,2,3,7,8-PeCDD-13C	2.00	80	
					1,2,3,4,7,8-HxCDF-13C	2.00	99	
1,2,3,7,8-PeCDF	3.60	-----	0.34	J	1,2,3,6,7,8-HxCDF-13C	2.00	97	
2,3,4,7,8-PeCDF	7.90	-----	0.26		2,3,4,6,7,8-HxCDF-13C	2.00	101	
Total PeCDF	280.00	-----	0.30		1,2,3,7,8,9-HxCDF-13C	2.00	163	R
					1,2,3,4,7,8-HxCDD-13C	2.00	92	
1,2,3,7,8-PeCDD	20.00	-----	0.15		1,2,3,6,7,8-HxCDD-13C	2.00	75	
Total PeCDD	70.00	-----	0.15		1,2,3,4,6,7,8-HpCDF-13C	2.00	77	
					1,2,3,4,7,8,9-HpCDF-13C	2.00	82	
1,2,3,4,7,8-HxCDF	30.00	-----	0.63		1,2,3,4,6,7,8-HpCDD-13C	2.00	100	
1,2,3,6,7,8-HxCDF	36.00	-----	0.75		OCDD-13C	4.00	79	
2,3,4,6,7,8-HxCDF	52.00	-----	0.62					
1,2,3,7,8,9-HxCDF	9.10	-----	0.27		1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	810.00	-----	0.57		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	74.00	-----	1.10		2,3,7,8-TCDD-37Cl4	0.20	85	
1,2,3,6,7,8-HxCDD	200.00	-----	1.50					
1,2,3,7,8,9-HxCDD	130.00	-----	1.10					
Total HxCDD	990.00	-----	1.20					
1,2,3,4,6,7,8-HpCDF	1600.00	-----	1.70		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	76.00	-----	2.50		Equivalence: 41 ng/Kg			
Total HpCDF	4200.00	-----	2.10	E	(Using MEDEP Factors)			
1,2,3,4,6,7,8-HpCDD	4400.00	-----	0.23	E				
Total HpCDD	7100.00	-----	0.23	E				
OCDF	4900.00	-----	0.21					
OCDD	34000.00	-----	0.30	E				

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EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

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J = Estimated value
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REPORT OF LABORATORY ANALYSIS

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Method 8290 Blank Analysis Results

Lab Sample ID	BLANK-52781	Matrix	Solid
Filename	U161119A_03	Dilution	NA
Total Amount Extracted	10.2 g	Extracted	11/14/2016 15:05
ICAL ID	U161025	Analyzed	11/19/2016 08:02
CCal Filename(s)	U161118B_16 & U161119A_16	Injected By	BAL

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.064		2,3,7,8-TCDF-13C	2.00	68
Total TCDF	ND	-----	0.064		2,3,7,8-TCDD-13C	2.00	84
					1,2,3,7,8-PeCDF-13C	2.00	60
2,3,7,8-TCDD	ND	-----	0.058		2,3,4,7,8-PeCDF-13C	2.00	53
Total TCDD	ND	-----	0.058		1,2,3,7,8-PeCDD-13C	2.00	57
					1,2,3,4,7,8-HxCDF-13C	2.00	75
1,2,3,7,8-PeCDF	ND	-----	0.070		1,2,3,6,7,8-HxCDF-13C	2.00	74
2,3,4,7,8-PeCDF	ND	-----	0.049		2,3,4,6,7,8-HxCDF-13C	2.00	80
Total PeCDF	0.11	-----	0.059	J	1,2,3,7,8,9-HxCDF-13C	2.00	88
					1,2,3,4,7,8-HxCDD-13C	2.00	78
1,2,3,7,8-PeCDD	ND	-----	0.086		1,2,3,6,7,8-HxCDD-13C	2.00	72
Total PeCDD	ND	-----	0.086		1,2,3,4,6,7,8-HpCDF-13C	2.00	79
					1,2,3,4,7,8,9-HpCDF-13C	2.00	82
1,2,3,4,7,8-HxCDF	ND	-----	0.044		1,2,3,4,6,7,8-HpCDD-13C	2.00	94
1,2,3,6,7,8-HxCDF	ND	-----	0.037		OCDD-13C	4.00	75
2,3,4,6,7,8-HxCDF	ND	-----	0.045				
1,2,3,7,8,9-HxCDF	ND	-----	0.059		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.046		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.050		2,3,7,8-TCDD-37Cl4	0.20	82
1,2,3,6,7,8-HxCDD	ND	-----	0.074				
1,2,3,7,8,9-HxCDD	ND	-----	0.056				
Total HxCDD	ND	-----	0.060				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.047		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.072		Equivalence: 0.00011 ng/Kg		
Total HpCDF	ND	-----	0.060		(Using MEDEP Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.088				
Total HpCDD	0.15	-----	0.088	J			
OCDF	ND	-----	0.110				
OCDD	0.38	-----	0.140	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

Results reported on a total weight basis and are valid to no more than 2 significant figures.
J = Estimated value

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-52782		
Filename	U161119A_01	Matrix	Solid
Total Amount Extracted	10.1 g	Dilution	NA
ICAL ID	U161025	Extracted	11/14/2016 15:05
CCal Filename(s)	U161118B_16 & U161119A_16	Analyzed	11/19/2016 06:31
Method Blank ID	BLANK-52781	Injected By	BAL

Native Isomers	**Qs** (ng)	**Qm** (ng)	% Rec.	**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	0.20	0.21	104	2,3,7,8-TCDF-13C	2.0	80
Total TCDF				2,3,7,8-TCDD-13C	2.0	95
				1,2,3,7,8-PeCDF-13C	2.0	61
2,3,7,8-TCDD	0.20	0.18	88	2,3,4,7,8-PeCDF-13C	2.0	59
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	70
				1,2,3,4,7,8-HxCDF-13C	2.0	75
1,2,3,7,8-PeCDF	1.0	1.1	107	1,2,3,6,7,8-HxCDF-13C	2.0	74
2,3,4,7,8-PeCDF	1.0	1.1	110	2,3,4,6,7,8-HxCDF-13C	2.0	82
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	89
				1,2,3,4,7,8-HxCDD-13C	2.0	83
1,2,3,7,8-PeCDD	1.0	0.99	99	1,2,3,6,7,8-HxCDD-13C	2.0	71
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	79
				1,2,3,4,7,8,9-HpCDF-13C	2.0	83
1,2,3,4,7,8-HxCDF	1.0	1.1	110	1,2,3,4,6,7,8-HpCDD-13C	2.0	91
1,2,3,6,7,8-HxCDF	1.0	1.1	107	OCDD-13C	4.0	66
2,3,4,6,7,8-HxCDF	1.0	1.0	104			
1,2,3,7,8,9-HxCDF	1.0	1.0	102	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.1	111	2,3,7,8-TCDD-37Cl4	0.20	95
1,2,3,6,7,8-HxCDD	1.0	1.2	117			
1,2,3,7,8,9-HxCDD	1.0	1.2	122			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	1.1	113			
1,2,3,4,7,8,9-HpCDF	1.0	1.0	101			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	1.0	103			
Total HpCDD						
OCDF	2.0	2.1	107			
OCDD	2.0	2.2	111			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range
Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

ATTACHMENT B

Soil Shipment Documentation

CPRC GROUP

70 Pleasant Hill Rd. Road, Scarborough, ME 04074
TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133
THANK YOU FOR YOUR PATRONAGE!!!

Customer: 12659
GRANITE ENVIRONMENTAL
P O BOX 877
ROCKPORT, MA 01966

Job: 3503825
FAIRPOINT COMMUNICATI
360 OLD BATH ROAD
BRUNSWICK, ME
POCS

Truck: BARD 8
Driver: BARD 8
Mix: 3105
Mix Name: POCS

Ticket: 00428022
Operator: 1

Tare	Net	Gross		Job Today	Job ToDate
20.25	26.29	46.54	Ton	268.59	268.59

Loads Today	Loads ToDate	Date & Time	Fob/Del
9	9	10/11/2016 3:31:15PM	FOB

STORED
TARE

2629 #9 428022

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Not Required	1	207-838-4077	FR-Bruns-009

GENERATOR

5. Generator's Name and Mailing Address: Fairpoint Communications, 1 Davis Farm Rd, Portland, ME 04103
Generator's Phone: 207-535-4137
Generator's Site Address (if different than mailing address): 360 Bath Rd, Brunswick, ME 04011

6. Transporter 1 Company Name: CPRC Group — U.S. EPA ID Number: Not Required

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: CPRC Group, 2 Gibson Rd, Scarborough, ME 04074
Facility's Phone: 207-883-3325
U.S. EPA ID Number: Not Required

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Regulated Material (Petroleum Contaminated Soil)	001	DT	25	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
① (Contaminated) Soil

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.
Generator's/Offeror's Printed/Typed Name: Darryl R. Verrille Agent — Signature: [signature] — Month 10 Day 11 Year 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Chris Bard — Signature: [signature] — Month 10 Day 11 Year 16
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Marcia Wentworth — Signature: [signature] — Month 10 Day 11 Year 16

169-BLS-C 5 11979 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

CPRC GROUP

70 Pleasant Hill Rd. Road, Scarborough, ME 04074
TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133
THANK YOU FOR YOUR PATRONAGE!

Customer: 12659
GRANITE ENVIRONMENTAL
P O BOX 877
ROCKPORT, MA 01966

Job: 3503825
FAIRPOINT COMMUNICATI
360 OLD BATH ROAD
BRUNSWICK, ME
POCS

Truck: DON
Driver: BENNETT
Mix: 3105
Mix Name: POCS

Ticket: 00428013
Operator: 1

Tare	Net	Gross		Job Today	Job ToDate
19.21	32.51	51.72	Ton	242.30	242.30

Loads Today	Loads ToDate	Date & Time		Fob/Del
8	8	10/11/2016	2:44:45PM	FOB

STORED
TARE

#8 3251 42813

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Not Required	1	207-838-4077	FP-Bruns-008

GENERATOR

5. Generator's Name and Mailing Address: Fairpoint Communications, 1 Davis Farm RD, Portland, ME 04103
Generator's Phone: 207-535-4157
Generator's Site Address (if different than mailing address): 360 Bath Rd, Brunswick, ME 04011

6. Transporter 1 Company Name: CPRC Group — U.S. EPA ID Number: Not Required

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: CPRC Group, 2 Gibson RD, Scarborough, ME 04074 — U.S. EPA ID Number: Not Required
Facility's Phone: 207-883-3325

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Regulated Material (Petroleum Contaminated soil)	001	DT	25	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
(1) Contaminated Soil

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.
Generator's/Offeror's Printed/Typed Name: Dany R. Verville Agent — Signature: [signature] — Month 10 Day 11 Year 16

INTL

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Donald Bennett — Signature: [signature] — Month 10 Day 11 Year 16
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a
Printed/Typed Name: M. Montagno — Signature: [signature] — Month 10 Day 11 Year 16

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DESIGNATED FACILITY TO GENERATOR

CPRC GROUP

70 Pleasant Hill Rd. Road, Scarborough, ME 04074
TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133
THANK YOU FOR YOUR PATRONAGE!!

Customer: 12659
GRANITE ENVIRONMENTAL
P O BOX 877
ROCKPORT, MA 01966

Job: 3503825
FAIRPOINT COMMUNICATI
360 OLD BATH ROAD
BRUNSWICK, ME
POCS

Truck: FRANK2
Driver: FRANK2
Mix: 3105
Mix Name: POCS

Ticket: 00428005
Operator: 1

Tare	Net	Gross		Job Today	Job ToDate
16.38	32.24	48.62	Ton	209.79	209.79

Loads Today	Loads ToDate	Date & Time	Fob/Del
7	7	10/11/2016 1:55:36PM	FOB

STORED
TARE

#7 32.24 428025

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number: Not Required	2. Page 1 of: 1	3. Emergency Response Phone: 207-938-4077	4. Waste Tracking Number: FP-Bronx-007

5. Generator's Name and Mailing Address: Fairpoint Communications, 1 Davis Farm Rd, Portland, ME 04103
Generator's Phone: 207-835-4157
Generator's Site Address (if different than mailing address): 360 Bath Rd, Brunswick, ME 04011

6. Transporter 1 Company Name: CPRC Group — U.S. EPA ID Number: Not Required

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: CPRC Group, 2 Gibson Rd, Scarborough, ME 04074
Facility's Phone: 207-883-3329 — U.S. EPA ID Number: Not Required

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Regulated Material (Petroleum Contaminated Soil)	001	DT	25	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
(1) Contaminated Soil

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.
Generator's/Offeror's Printed/Typed Name: Barry R Verville Agent — Signature: [signature] — Month: 10 Day: 11 Year: 16

INTL
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER
16. Transportation Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: DAVID Monroe FRANKLIN — Signature: [signature] — Month: 10 Day: 11 Year: 16
Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY
17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a
Printed/Typed Name: CM Wood CPRC — Signature: [signature] — Month: 10 Day: 11 Year: 16

159-BLS-C 5 11979 (Rev. 9/09) TRANSPORTER #1

CPRC GROUP

70 Pleasant Hill Rd. Road, Scarborough, ME 04074
TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133
THANK YOU FOR YOUR PATRONAGE!

Customer: 12659
GRANITE ENVIRONMENTAL
P O BOX 877
ROCKPORT, MA 01966

Job: 3503825
FAIRPOINT COMMUNICATI
360 OLD BATH ROAD
BRUNSWICK, ME
POCS

Truck: BARD 8
Driver: BARD 8
Mix: 3105
Mix Name: POCS

Ticket: 00428002
Operator: 1

Tare	Net	Gross		Job Today	Job ToDate
20.25	28.90	49.15	Ton	177.55	177.55

Loads Today	Loads ToDate	Date & Time	Fob/Del
6	6	10/11/2016 1:07:29PM	FOB

STORED
TARE

#6 28.90 428002

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: Not Required
2. Page 1 of: 1
3. Emergency Response Phone: 207-838-4077
4. Waste Tracking Number: FP-Bruns-006

5. Generator's Name and Mailing Address: Fairpoint Communications, 1 Davis Farm Rd, Portland, ME 04103
Generator's Phone: 207-535-4155
Generator's Site Address (if different than mailing address): 360 Bath Rd, Brunswick, ME 04011

6. Transporter 1 Company Name: CPRC Group — U.S. EPA ID Number: Not Required

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: CPRC Group, 2 Gibson Rd, Scarborough, ME 04074 — U.S. EPA ID Number: Not Required
Facility's Phone: 207-883-3325

9. Waste Shipping Name and Description	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.
1. Non Regulated Material (Petroleum Contaminated Soil)	001	DT	25	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
(1) Contaminated Soil

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Darryl R Verville Agent — Signature: [signature] — Month Day Year: 10 11 16

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: ____
Transporter Signature (for exports only): ____ Date leaving U.S.: ____

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: X Chris Bard — Signature: X Chris Bard — Month Day Year: 10 11 16
Transporter 2 Printed/Typed Name: — Signature: — Month Day Year:

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number:

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: M. Montagne — Signature: Marcia Montagne — Month Day Year: 10 11 16

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

169-BLS-C 5 11979 (Rev. 9/09)

TRANSPORTER #1

CPRC GROUP

70 Pleasant Hill Rd. Road, Scarborough, ME 04074
TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133
THANK YOU FOR YOUR PATRONAGE!!!

Customer: 12659
GRANITE ENVIRONMENTAL
P O BOX 877
ROCKPORT, MA 01966

Job: 3503825
FAIRPOINT COMMUNICATI
360 OLD BATH ROAD
BRUNSWICK, ME
POCS

Truck: DON
Driver: BENNETT
Mix: 3105
Mix Name: POCS

Ticket: 00427999
Operator: 1

Tare	Net	Gross		Job Today	Job ToDate
19.21	31.91	51.12	Ton	148.65	148.65

Loads Today	Loads ToDate	Date & Time	Fob/Del
5	5	10/11/2016 12:04:14PM	FOB

STORED
TARE

2

#5 3191 427989

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number: Not Required	2. Page 1 of: 1	3. Emergency Response Phone: 207-838-4077	4. Waste Tracking Number: FP-Bruns-005

5. Generator's Name and Mailing Address: Fairpoint Communications, 1 Davis Farm Rd, Portland, ME 04103
Generator's Phone: 207-535-4157
Generator's Site Address (if different than mailing address): 360 Bath Rd, Brunswick, ME 04011

6. Transporter 1 Company Name: CPRC Group — U.S. EPA ID Number: Not Required

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: CPRC Group, 2 Gibson Rd, Scarborough, ME 04074 — U.S. EPA ID Number: Not Required
Facility's Phone: 207-883-3325

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Regulated Material (Petroleum Contaminated Soil)	001	DT	25	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1) Contaminated Soil

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.
Generator's/Offeror's Printed/Typed Name: Darryl Denville Agent — Signature: [signature] — Month: 10 — Day: 11 — Year: 16

15. International Shipments: ☐ Import to U.S. ☐ Export from U.S. — Port of entry/exit: — Transporter Signature (for exports only): — Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: [illegible] — Signature: [signature] — Month: 10 — Day: 11 — Year: 16
Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

17. Discrepancy
17a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a
Printed/Typed Name: [illegible] — Signature: [signature] — Month: 10 — Day: 11 — Year: 16

GENERATOR | TRANSPORTER INTL | TRANSPORTER | DESIGNATED FACILITY

168-DLS-C 5 11979 (Rev. 9/08)

TRANSPORTER #1

CPRC GROUP

70 Pleasant Hill Rd. Road, Scarborough, ME 04074
TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133
THANK YOU FOR YOUR PATRONAGE!!

Customer: 12659	Job: 3503825	Truck: FRANK2	
GRANITE ENVIRONMENTAL	FAIRPOINT COMMUNICATI	Driver: FRANK2	Ticket: 00427997
P O BOX 877	360 OLD BATH ROAD	Mix: 3105	Operator: 1
ROCKPORT, MA 01966	BRUNSWICK, ME	Mix Name: POCS	
	POCS		

Tare	Net	Gross		Job Today	Job ToDate
16.38	30.57	46.95	Ton	116.74	116.74

Loads Today	Loads ToDate	Date & Time	Fob/Del	
4	4	10/11/2016 11:30:17AM	FOB	STORED TARE

#4 3057 427897

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: Not Required
2. Page 1 of: 1
3. Emergency Response Phone: 207-838-4037
4. Waste Tracking Number: FP-Bruns-004

5. Generator's Name and Mailing Address: Fairpoint Communications, 1 Davis Farm Rd, Portland, ME 04103
Generator's Site Address (if different than mailing address): 360 Bath Rd, Brunswick, ME 04011
Generator's Phone: 207-535-4157

6. Transporter 1 Company Name: CRRC Group
U.S. EPA ID Number: Not Required

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: CRRC Group, 2 Gibson Rd, Scarborough, ME 04074
U.S. EPA ID Number: Not Required
Facility's Phone: 207-883-3325

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
GENERATOR	1. Non Regulated Material (Petroleum Contaminated Soil)	001	DT	25	T
	2.				
	3.				
	4.				

13. Special Handling Instructions and Additional Information
(1) Contaminated Soil

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.
Generator's/Offeror's Printed/Typed Name: Darryl R Verville
Signature:
Month: 10 Day: 11 Year: 11

TRANSPORTER INTL
15. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: David Master FRANK ST
Signature: X
Month: 10 Day: 11 Year: 11
Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

17. Discrepancy
17a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

DESIGNATED FACILITY
17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:
17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: [illegible]
Signature:
Month: 10 Day: 11 Year: 11

169-BLS-C 5 11979 (Rev. 9/09)

TRANSPORTER #1

CPRC GROUP

70 Pleasant Hill Rd. Road, Scarborough, ME 04074
TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133
THANK YOU FOR YOUR PATRONAGE!

Customer: 12659
GRANITE ENVIRONMENTAL
P O BOX 877
ROCKPORT, MA 01966

Job: 3503825
FAIRPOINT COMMUNICATI
360 OLD BATH ROAD
BRUNSWICK, ME
POCS

Truck: BARD 8
Driver: BARD 8
Mix: 3105
Mix Name: POCS

Ticket: 00427990
Operator: 1

Tare	Net	Gross		Job Today	Job ToDate
20.25	24.24	44.49	Ton	86.17	86.17

Loads Today	Loads ToDate	Date & Time	Fob/Del	MANUAL
3	3	10/11/2016 10:07:53AM	FOB	

#3 2404 427990

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: Not Required
2. Page 1 of: 1
3. Emergency Response Phone: 207-838-4077
4. Waste Tracking Number: FP- Brums- 003

5. Generator's Name and Mailing Address: Fairpoint Communications, 1 Davis Farm Rd, Portland, ME 04103
Generator's Site Address (if different than mailing address): 360 Bath Rd, Brunswick, ME 04011
Generator's Phone: 207-535-4157

6. Transporter 1 Company Name: CPRC Group
U.S. EPA ID Number: Not Required

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: CPRC Group, 2 Gibson Rd, Scarborough, ME 04074
U.S. EPA ID Number: Not Required
Facility's Phone: 207-883-3328

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Regulated Material (Petroleum Contaminated Soil)	001	DT	25	T	
2.						
3.						
4.						

GENERATOR

13. Special Handling Instructions and Additional Information
(1) Contaminated Soil

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.
Generator's/Offeror's Printed/Typed Name: Darryl R Verville
Signature: Darryl R Verville
Month: 10 Day: 11 Year: 16

INTL

15. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Christopher J. Bard
Signature: Christopher J Bard
Month: 10 Day: 11 Year: 16
Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:
17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Wanda Bonney
Signature: Wanda Bonney
Month: 10 Day: 11 Year: 2016

169-BLS-C 5 11879 (Rev. 9/00)

TRANSPORTER #1

CPRC GROUP

70 Pleasant Hill Rd. Road, Scarborough, ME 04074
TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133
THANK YOU FOR YOUR PATRONAGE!

Customer: 12659
GRANITE ENVIRONMENTAL
P O BOX 877
ROCKPORT, MA 01966

Job: 3503825
FAIRPOINT COMMUNICATI
360 OLD BATH ROAD
BRUNSWICK, ME
POCS

Truck: DON
Driver: BENNETT
Mix: 3105
Mix Name: POCS

Ticket. 00427987
Operator: 1

Tare	Net	Gross		Job Today	Job ToDate
19.21	29.77	48.98	Ton	61.93	61.93

Loads Today	Loads ToDate	Date & Time		Fob/Del	
2	2	10/11/2016	9:38:52AM	FOB	STORED TARE

10/13 out 2:00pm

#2 28.77 42098

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number: Not Required	2. Page 1 of: 1	3. Emergency Response Phone: 207-838-4077	4. Waste Tracking Number: FP-Bruns-002

GENERATOR

5. Generator's Name and Mailing Address: Fairpoint Communications, 1 Davis Farm Rd, Portland, ME 04103
Generator's Phone: 207-535-4857
Generator's Site Address (if different than mailing address): 360 Bath Rd, Brunswick, ME 04011

6. Transporter 1 Company Name: CPRC Group — U.S. EPA ID Number: Not Required

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: CPRC Group, 2 Gibson Rd, Scarborough, ME 04074 — U.S. EPA ID Number: Not Required
Facility's Phone: 207-883-3325

	9. Waste Shipping Name and Description	10. Containers: No.	10. Containers: Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non Regulated Material (Petroleum Contaminated Soil)	001	DT	25	T
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
① Contaminated Soil

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.
Generator's/Offeror's Printed/Typed Name: Darcy K Verville Agent — Signature: [signature] — Month: 10 Day: 11 Year: 16

INT'L

15. International Shipments: ☐ Import to U.S. ☐ Export from U.S.
Transporter Signature (for exports only): — Port of entry/exit: — Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: [illegible] — Signature: [signature] — Month: 10 Day: 11 Year: 16
Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: [illegible] CPRC — Signature: [signature] — Month: 10 Day: 11 Year: 16

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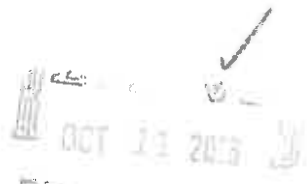
TRANSPORTER #1

CPRC GROUP

70 Pleasant Hill Rd. Road, Scarborough, ME 04074
TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133
THANK YOU FOR YOUR PATRONAGE!!!



Customer: 12659
GRANITE ENVIRONMENTAL
P O BOX 877
ROCKPORT, MA 01966

Job: 3503825
FAIRPOINT COMMUNICATI
360 OLD BATH ROAD
BRUNSWICK, ME
POCS

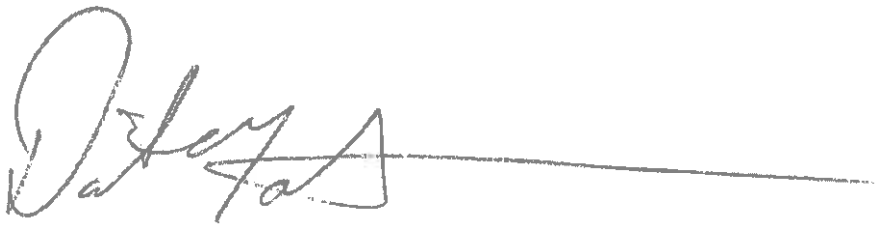
Truck: FRANK2
Driver: FRANK2
Mix: 3105
Mix Name: POCS

Ticket: 00427983
Operator: 1

Tare	Net	Gross		Job Today	Job ToDate
16.38	32.16	48.54	Ton	32.16	32.16

Loads Today	Loads ToDate	Date & Time	Fob/Del
1	1	10/11/2016 9:20:39AM	FOB

MANUAL



#1 3216 427983

NON-HAZARDOUS WASTE MANIFEST | Manifest Tracking Number: NOT REQUIRED | 2. Page 1 of 1 | 3. Emergency Response Phone: 207 838 4077 | 4. Waste Tracking Number: FPBruns-001

5. Generator's Name and Mailing Address: FAIRPOINT Communications, 45 Davis Farm Road, Portland ME 04103, 207 535-4157
Generator's Site Address (if different than mailing address): 360 Bath Road, Brunswick, Me 04011
Generator's Phone:

6. Transporter 1 Company Name: LPRC Group | U.S. EPA ID Number: NOT REQUIRED

7. Transporter 2 Company Name | U.S. EPA ID Number

8. Designated Facility Name and Site Address: UP, 2 Gibson Rd, Scarborough, Me 04074, 207 883 3325
Facility's Phone: | U.S. EPA ID Number: NOT REQUIRED

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. NON Regulated MATERIAL (Petroleum Contaminated Soil)	001	DT	25	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
(1) Contaminated Soil

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.
Generator's/Offeror's Printed/Typed Name: Darryl R Verrille Agent | Signature | Month 10 | Day 11 | Year 16

15. International Shipments: ☐ Import to U.S. ☐ Export from U.S. | Port of entry/exit: | Date leaving U.S.:
Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: DAVID MARTIN FRANK JR | Signature | Month 10 | Day 11 | Year 16
Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

17. Discrepancy
17a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator) | U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: C. M. Wood CPRC | Signature | Month 10 | Day 11 | Year 16

DESIGNATED FACILITY | TRANSPORTER INT'L | TRANSPORTER | GENERATOR

CPRC GROUP

70 Pleasant Hill Rd. Road, Scarborough, ME 04074
TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133
THANK YOU FOR YOUR PATRONAGE!!!

OCT 12 2016

Customer: 12659
GRANITE ENVIRONMENTAL
P O BOX 877
ROCKPORT, MA 01966

Job: 3503825
FAIRPOINT COMMUNICATI
360 OLD BATH ROAD
BRUNSWICK, ME
POCS

Truck: FRANK2
Driver: FRANK2
Mix: 3105
Mix Name: POCS

Ticket: 00428107
Operator: 1

Tare	Net	Gross		Job Today	Job ToDate
16.38	34.09	50.47	Ton	153.27	153.27

Loads Today	Loads ToDate	Date & Time		Fob/Del	
5	5	10/12/2016	2:31:34PM	FOB	STORED TARE

HS 3409 428011

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number

GENERATOR

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1.					
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month — Day — Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month — Day — Year

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

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GENERATOR'S/SHIPPER'S INITIAL COPY

CPRC GROUP

70 Pleasant Hill Rd. Road, Scarborough, ME 04074
TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133
THANK YOU FOR YOUR PATRONAGE!!

Customer: 12659
GRANITE ENVIRONMENTAL
P O BOX 877
ROCKPORT, MA 01966

Job: 3503825
FAIRPOINT COMMUNICATI
360 OLD BATH ROAD
BRUNSWICK, ME
POCS

Truck: FRANK2
Driver: FRANK2
Mix: 3105
Mix Name: POCS

Ticket: 00428077
Operator: 1

Tare	Net	Gross		Job Today	Job ToDate
16.38	33.55	49.93	Ton	119.18	119.18

Loads Today	Loads ToDate	Date & Time	Fob/Del
4	4	10/12/2016 12:05:30PM	FOB

STORED
TARE

#4 3355 428077

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number

GENERATOR

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1.			35		
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month 10 — Day — Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month 10 — Day 12 — Year

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month — Day — Year

169-BLS-C 5 11979 (Rev. 9/09)

GENERATOR'S/SHIPPER'S INITIAL COPY

CPRC GROUP

70 Pleasant Hill Rd. Road, Scarborough, ME 04074
TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133
THANK YOU FOR YOUR PATRONAGE!

Customer: 12659
GRANITE ENVIRONMENTAL
P O BOX 877
ROCKPORT, MA 01966

Job: 3503825
FAIRPOINT COMMUNICATI
360 OLD BATH ROAD
BRUNSWICK, ME
POCS

Truck: BARD 8
Driver: BARD 8
Mix: 3105
Mix Name: POCS

Ticket: 00428072
Operator: 1

Tare	Net	Gross		Job Today	Job ToDate
20.25	23.16	43.41	Ton	85.63	85.63

Loads Today	Loads ToDate	Date & Time	Fob/Del	
3	3	10/12/2016 11:51:09AM	FOB	STORED TARE

3 2316 428042

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number: Not Required	2. Page 1 of 1	3. Emergency Response Phone: 207-838-4177	4. Waste Tracking Number: [illegible]

5. Generator's Name and Mailing Address: [illegible]
Generator's Site Address (if different than mailing address): [illegible]
Generator's Phone: 207-53[illegible]

6. Transporter 1 Company Name: CPRC Group — U.S. EPA ID Number: Not Required

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: CPRC Group [illegible] Scarborough, ME 04074 — U.S. EPA ID Number: Not Required
Facility's Phone: 207-[illegible]

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. Non Regulated Material (Petroleum Contaminated Soil)	001	[illegible]	25	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
[illegible] Contaminated Soil

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: [illegible] Signature: [signature] Month: 10 Day: Year:

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: [illegible] Signature: [signature] Month: 10 Day: Year:
Transporter 2 Printed/Typed Name Signature Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Marcia Montagne Signature: [signature] Month: 10 Day: 12 Year: 16

169-BLS-C 5 11979 (Rev. 9/09) TRANSPORTER #1

CPRC GROUP

70 Pleasant Hill Rd. Road, Scarborough, ME 04074
TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133
THANK YOU FOR YOUR PATRONAGE!!

Customer: 12659
GRANITE ENVIRONMENTAL
P O BOX 877
ROCKPORT, MA 01966

Job: 3503825
FAIRPOINT COMMUNICATI
360 OLD BATH ROAD
BRUNSWICK, ME
POCS

Truck: FRANK2
Driver: FRANK2
Mix: 3105
Mix Name: POCS

Ticket: 00428042
Operator: 1

Tare	Net	Gross		Job Today	Job ToDate
16.38	30.83	47.21	Ton	62.47	62.47

Loads Today	Loads ToDate	Date & Time		Fob/Del
2	2	10/12/2016	9:15:57AM	FOB

STORED
TARE

#2 428042 3083

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Waste Tracking Number

5. Generator's Name and Mailing Address | Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name | U.S. EPA ID Number

7. Transporter 2 Company Name | U.S. EPA ID Number

8. Designated Facility Name and Site Address CPR | U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.				25		
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name | Signature | Month | Day | Year

INTL

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name | Signature | Month | Day | Year

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name C. M. Wood CPAC | Signature | Month 10 | Day 17 | Year 16

169-BLS-C 5 11979 (Rev. 9/09)

GENERATOR'S/SHIPPER'S INITIAL COPY

CPRC GROUP

70 Pleasant Hill Rd. Road, Scarborough, ME 04074
TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133
THANK YOU FOR YOUR PATRONAGE!!

Customer: 12659
GRANITE ENVIRONMENTAL
P O BOX 877
ROCKPORT, MA 01966

Job: 3503825
FAIRPOINT COMMUNICATI
360 OLD BATH ROAD
BRUNSWICK, ME
POCS

Truck: DON
Driver: BENNETT
Mix: 3105
Mix Name: POCS

Ticket: 00428032
Operator: 1

Tare	Net	Gross		Job Today	Job ToDate
19.21	31.64	50.85	Ton	31.64	31.64

Loads Today	Loads ToDate	Date & Time		Fob/Del
1	1	10/12/2016	8:33:05AM	FOB

STORED
TARE

#1 31.64 428032

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
[illegible]	1	707 [illegible]	EP B[illegible]

GENERATOR

5. Generator's Name and Mailing Address [illegible]

Generator's Site Address (if different than mailing address) [illegible]

Generator's Phone: [illegible]

6. Transporter 1 Company Name [illegible] U.S. EPA ID Number [illegible]

7. Transporter 2 Company Name U.S. EPA ID Number

8. Designated Facility Name and Site Address [illegible] U.S. EPA ID Number Not Required

Facility's Phone: [illegible]

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Regulated Material (Waste Concrete)	001	DT	25	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

Contaminated Soil

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name [illegible] Signature [illegible] Month 10 Day [illegible] Year 11

INTL

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name [illegible] Signature [illegible] Month 12 Day [illegible] Year

Transporter 2 Printed/Typed Name Signature Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a

Printed/Typed Name Marcia Montagne Signature Marcia Montagne Month 10 Day 12 Year 16

169-BLS-C 5 11979 (Rev. 9/09)

TRANSPORTER #1

CPRC GROUP

70 Pleasant Hill Rd. Road, Scarborough, ME 04074
TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133
THANK YOU FOR YOUR PATRONAGE!!!

Customer: 12659
GRANITE ENVIRONMENTAL
P O BOX 877
ROCKPORT, MA 01966

Job: 3503825
FAIRPOINT COMMUNICATI
360 OLD BATH ROAD
BRUNSWICK, ME
POCS

Truck: FRANK2
Driver: FRANK2
Mix: 3105
Mix Name: POCS

Ticket: 00428155
Operator: 1

Tare	Net	Gross		Job Today	Job ToDate
16.38	33.69	50.07	Ton	103.11	103.11

Loads Today	Loads ToDate	Date & Time		Fob/Del	
3	3	10/13/2016	1:51:34PM	FOB	STORED TARE

#3 3369 428153

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
[illegible]	1	[illegible]	[illegible]

GENERATOR

5. Generator's Name and Mailing Address: [illegible] Generator's Site Address (if different than mailing address): [illegible]

Generator's Phone: [illegible]

6. Transporter 1 Company Name: [illegible] U.S. EPA ID Number: [illegible]

7. Transporter 2 Company Name: U.S. EPA ID Number:

8. Designated Facility Name and Site Address: [illegible] U.S. EPA ID Number: [illegible]

Facility's Phone: [illegible]

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	[illegible]	[illegible]	[illegible]	25	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information: [illegible]

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: [illegible] Signature: [illegible] Month: [illegible] Day: [illegible] Year: [illegible]

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: [illegible] Signature: [illegible] Month: [illegible] Day: [illegible] Year: [illegible]

Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: [illegible] Signature: [illegible] Month: [illegible] Day: [illegible] Year: [illegible]

169-BLS-C 5 11979 (Rev. 9/09)

GENERATOR'S/SHIPPER'S INITIAL COPY

CPRC GROUP

70 Pleasant Hill Rd. Road, Scarborough, ME 04074
TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133
THANK YOU FOR YOUR PATRONAGE

Customer: 12659
GRANITE ENVIRONMENTAL
P O BOX 877
ROCKPORT, MA 01966

Job: 3503825
FAIRPOINT COMMUNICATI
360 OLD BATH ROAD
BRUNSWICK, ME
POCS

Truck: FRANK2
Driver: FRANK2
Mix: 3105
Mix Name: POCS

Ticket: 00428140
Operator: 1

Tare	Net	Gross		Job Today	Job ToDate
16.38	33.15	49.53	Ton	69.42	69.42

Loads Today	Loads ToDate	Date & Time	Fob/Del	
2	2	10/13/2016 11:04:31AM	FOB	STORED TARE

#2 3315 42840

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number | 2. Page 1 of 1 | 3. Emergency Response Phone | 4. Waste Tracking Number

5. Generator's Name and Mailing Address | Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name | U.S. EPA ID Number

7. Transporter 2 Company Name | U.S. EPA ID Number

8. Designated Facility Name and Site Address | U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
GENERATOR	1.			25		
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name | Signature | Month | Day | Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: DAVID MORTON | Signature | Month: 10 | Day: 13 | Year: 16

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: CM Wood CRC | Signature | Month: 10 | Day: 13 | Year: 16

169-BLS-C 5 11979 (Rev. 9/09)

GENERATOR'S/SHIPPER'S INITIAL COPY

CPRC GROUP

70 Pleasant Hill Rd. Road, Scarborough, ME 04074
TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133
THANK YOU FOR YOUR PATRONAGE!!!

Customer: 12659
GRANITE ENVIRONMENTAL
P O BOX 877
ROCKPORT, MA 01966

Job: 3503825
FAIRPOINT COMMUNICATI
360 OLD BATH ROAD
BRUNSWICK, ME
POCS

Truck: FRANK2
Driver: FRANK2
Mix: 3105
Mix Name: POCS

Ticket: 00428125
Operator: 1

Tare	Net	Gross		Job Today	Job ToDate
16.38	36.27	52.65	Ton	36.27	36.27

Loads Today	Loads ToDate	Date & Time		Fob/Del
1	1	10/13/2016	8:46:16AM	FOB

STORED TARE

#1 / 428125 3627

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: Not Required
2. Page 1 of 1
3. Emergency Response Phone: 207-838-4077
4. Waste Tracking Number: FP-Bruns-01

GENERATOR

5. Generator's Name and Mailing Address: Fairpoint Communication, 1 Davis Farm Rd, Portland, ME 04103
Generator's Site Address (if different than mailing address): 360 Bath Rd, Brunswick, ME 04011
Generator's Phone: 207-535-4153

6. Transporter 1 Company Name: CPRC Group
U.S. EPA ID Number: Not Required

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: CPRC Group, 2 Gibson Rd, Scarborough, ME 04074
U.S. EPA ID Number: Not Required
Facility's Phone: 207-883-3325

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Regulated Material (Petroleum Contaminated Soil)	001	DT	25	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
(1) Contaminated Soil

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.
Generator's/Offeror's Printed/Typed Name: Darryl R Verville Agent
Signature:
Month: 10 Day: 16 Year:

TRANSPORTER INT'L

15. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: DAVID MORTON
Signature:
Month: 10 Day: 13 Year: 16
Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:
17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Marcia Markham
Signature:
Month: 10 Day: 13 Year: 16

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TRANSPORTER #1

CPRC GROUP

70 Pleasant Hill Rd. Road, Scarborough, ME 04074
TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133
THANK YOU FOR YOUR PATRONAGE!!!

Customer: 12659
GRANITE ENVIRONMENTAL
P O BOX 877
ROCKPORT, MA 01966

Job: 3503825
FAIRPOINT COMMUNICATI
360 OLD BATH ROAD
BRUNSWICK, ME
POCS

Truck: FRANK2
Driver: FRANK2
Mix: 3105
Mix Name: POCS

Ticket: 00428210
Operator: 1

Tare	Net	Gross		Job Today	Job ToDate
16.38	34.35	50.73	Ton	116.49	116.49

Loads Today	Loads ToDate	Date & Time		Fob/Del	
6	6	10/14/2016	2:05:19PM	FOB	STORED TARE

6 34.35 428210 34.35

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number: Not Req...	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number

5. Generator's Name and Mailing Address [illegible]
Generator's Site Address (if different than mailing address) [illegible]
Generator's Phone: [illegible]

6. Transporter 1 Company Name: CFRI Group — U.S. EPA ID Number: Not Required

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: CFRI Group [illegible] — U.S. EPA ID Number
Facility's Phone: [illegible]

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non Regulated Material [illegible]	001	DT	25	T
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: [illegible] Signature: [signature] Month 10 Day 14 Year 11

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: X. David Norton Signature: [signature] Month 10 Day 14 Year 11
Transporter 2 Printed/Typed Name Signature Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: C M [illegible] Signature: [signature] Month 10 Day 14 Year 11

169-BLS-C 5 11979 (Rev. 9/09) GENERATOR'S/SHIPPER'S INITIAL COPY

CPRC GROUP

70 Pleasant Hill Rd. Road, Scarborough, ME 04074
TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133
THANK YOU FOR YOUR PATRONAGE!!!

Customer: 12659
GRANITE ENVIRONMENTAL
P O BOX 877
ROCKPORT, MA 01966

Job: 3503825
FAIRPOINT COMMUNICATI
360 OLD BATH ROAD
BRUNSWICK, ME
POCS

Truck: 1B7183
Driver: ALLSTATE VO2
Mix: 3105
Mix Name: POCS

Ticket: 00428200
Operator:

Tare	Net	Gross		Job Today	Job ToDate
5.10	4.87	9.97	Ton	82.14	82.14

Loads Today	Loads ToDate	Date & Time	Fob/Del
5	5	10/14/2016 12:12:25PM	FOB

STORED
TARE

5 428200 487

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: Not Required
2. Page 1 of 1
3. Emergency Response Phone: [illegible]
4. Waste Tracking Number: [illegible]

5. Generator's Name and Mailing Address: [illegible]
1 Davis Farm Rd
Portland, ME [illegible]

Generator's Phone: [illegible]

Generator's Site Address (if different than mailing address): [illegible]

6. Transporter 1 Company Name: CPRC Group — U.S. EPA ID Number: Not Required

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: CPRC Group
2 Gibson Rd
Scarborough, [illegible]

Facility's Phone: 207-[illegible]-332[illegible]

U.S. EPA ID Number: Not Required

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. [illegible] Material ([illegible])	[illegible]	[illegible]	25	[illegible]
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: [illegible] K [illegible] Agent — Signature: [signature] — Month 10 Day 14 Year 1[illegible]

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: [illegible] — Signature: [signature] — Month 10 Day 14 Year 16
Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: [illegible] — Signature: [signature] — Month 10 Day 14 Year 16

DESIGNATED FACILITY — TRANSPORTER — INT'L — GENERATOR

169-BLS-C 5 11979 (Rev. 9/09)

GENERATOR'S/SHIPPER'S INITIAL COPY

CPRC GROUP

70 Pleasant Hill Rd. Road, Scarborough, ME 04074
TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.13
THANK YOU FOR YOUR PATRONAGE!!

Customer: 12659
GRANITE ENVIRONMENTAL
P O BOX 877
ROCKPORT, MA 01966

Job: 3503825
FAIRPOINT COMMUNICATI
360 OLD BATH ROAD
BRUNSWICK, ME
POCS

Truck: FRANK2
Driver: FRANK2
Mix: 3105
Mix Name: POCS

Ticket: 00428191
Operator: 1

Tare	Net	Gross		Job Today	Job ToDate
16.38	34.99	51.37	Ton	77.27	77.27

Loads Today	Loads ToDate	Date & Time		Fob/Del	
4	4	10/14/2016	11:06:06AM	FOB	STORED TARE

#4 34.99 42819

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number: Not Required	2. Page 1 of 1	3. Emergency Response Phone: 207-[illegible]	4. Waste Tracking Number: [illegible]

5. Generator's Name and Mailing Address: [illegible]

Generator's Site Address (if different than mailing address): [illegible]

Generator's Phone: 207-[illegible]

6. Transporter 1 Company Name: CPRC Group — U.S. EPA ID Number: Not Required

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: CPRC Group [illegible] — U.S. EPA ID Number: Not Required

Facility's Phone: 207-[illegible]

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non Regulated Material (Petroleum Contaminated Soil)	[illegible]	DT	25	T
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: [illegible] — Signature — Month 10 Day 14 Year 16

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: DAVID [illegible] — Signature — Month 10 Day 14 Year 16

Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: C M Wood CPRC — Signature — Month 10 Day 14 Year 16

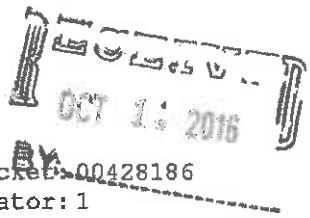
GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

169-BLS-C 5 11979 (Rev. 9/09)

GENERATOR'S/SHIPPER'S INITIAL COPY

CPRC GROUP

70 Pleasant Hill Rd. Road, Scarborough, ME 04074
TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133
THANK YOU FOR YOUR PATRONAGE!!!



Customer: 12659
GRANITE ENVIRONMENTAL
P O BOX 877
ROCKPORT, MA 01966

Job: 3503825
FAIRPOINT COMMUNICATI
360 OLD BATH ROAD
BRUNSWICK, ME
POCS

Truck: 1B7183
Driver: ALLSTATE VO2
Mix: 3105
Mix Name: POCS

Ticket: 00428186
Operator: 1

Tare	Net	Gross		Job Today	Job ToDate
5.10	4.64	9.74	Ton	42.28	42.28

Loads Today	Loads ToDate	Date & Time		Fob/Del	
3	3	10/14/2016	10:33:16AM	FOB	STORED TARE

#3 4.64 [illegible]
428/86

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number: Not Required	2. Page 1 of 1	3. Emergency Response Phone: [illegible]	4. Waste Tracking Number: [illegible]

5. Generator's Name and Mailing Address: [illegible]
1 [illegible] Rd
Generator's Phone: [illegible] Portland, ME [illegible]

Generator's Site Address (if different than mailing address): 360 [illegible]
[illegible], ME [illegible]

6. Transporter 1 Company Name: CPRC Group — U.S. EPA ID Number: Not Required

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: CPRC Group
1 [illegible] Rd
Facility's Phone: [illegible] [illegible], ME [illegible]
U.S. EPA ID Number: [illegible]

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non Hazardous Waste (Petroleum Contaminated Soil)	01	DT	25	T
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
[illegible]

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: [illegible] Agent — Signature: [signature] — Month/Day/Year: 10/14/16

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: [illegible] — Signature: [signature] — Month/Day/Year: 10/14/16
Transporter 2 Printed/Typed Name — Signature — Month Day Year: 14

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: C M Wood CPRC — Signature: [signature] — Month/Day/Year: 10/14/16

169-BLS-C 5 11979 (Rev. 9/09) GENERATOR'S/SHIPPER'S INITIAL COPY

CPRC GROUP

70 Pleasant Hill Rd. Road, Scarborough, ME 04074
TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133
THANK YOU FOR YOUR PATRONAGE!!!

Customer: 12659 Job: 3503825 Truck: 1B7183
GRANITE ENVIRONMENTAL FAIRPOINT COMMUNICATI Driver: ALLSTATE VO2 Ticket: 00428174
P O BOX 877 360 OLD BATH ROAD Mix: 3105 Operator: 1
ROCKPORT, MA 01966 BRUNSWICK, ME Mix Name: POCS
POCS

Tare	Net	Gross		Job Today	Job ToDate
5.10	4.65	9.75	Ton	37.64	37.64

Loads Today	Loads ToDate	Date & Time		Fob/Del	
2	2	10/14/2016	8:48:34AM	FOB	STORED TARE

#2 465 428174

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: Not Required
2. Page 1 of: 1
3. Emergency Response Phone: 207-838-4077
4. Waste Tracking Number: FP-Bruns-016

5. Generator's Name and Mailing Address: Fairpoint Communications, 1 Davis Farm Rd, Portland, ME 04103
Generator's Site Address (if different than mailing address): 360 Bath Rd, Brunswick, ME 04011
Generator's Phone: 207-535-4157

6. Transporter 1 Company Name: CPRC Group
U.S. EPA ID Number: Not Required

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: CPRC Group, 2 Gibson Rd, Scarborough, ME 04074
U.S. EPA ID Number: Not Required
Facility's Phone: 207-883-3325

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non Regulated Material (Petroleum Contaminated Soil)	001	DT	25	T
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
(1) Contaminated Soil

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.
Generator's/Offeror's Printed/Typed Name: Darryl A Vernile Agent
Signature:
Month: 10 Day: 14 Year: 16

15. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: MATT PERRY
Signature:
Month: 10 Day: 17 Year: 16
Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

17. Discrepancy
17a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Mara Markey
Signature:
Month: 10 Day: 14 Year: 16

GENERATOR — TRANSPORTER INT'L — DESIGNATED FACILITY

169-BLS-C 5 11979 (Rev. 9/09)

TRANSPORTER #1

CPRC GROUP

70 Pleasant Hill Rd. Road, Scarborough, ME 04074
TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133
THANK YOU FOR YOUR PATRONAGE!!!

RECEIVED
OCT 14 2016
BY:_____

Customer: 12659
GRANITE ENVIRONMENTAL
P O BOX 877
ROCKPORT, MA 01966

Job: 3503825
FAIRPOINT COMMUNICATI
360 OLD BATH ROAD
BRUNSWICK, ME
POCS

Truck: FRANK2
Driver: FRANK2
Mix: 3105
Mix Name: POCS

Ticket: 00428173
Operator: 1

Tare	Net	Gross		Job Today	Job ToDate
16.38	32.99	49.37	Ton	32.99	32.99

Loads Today	Loads ToDate	Date & Time		Fob/Del
1	1	10/14/2016	8:46:28AM	FOB

STORED
TARE

#/ 428173 3299 --

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number: Not Required	2. Page 1 of: 1	3. Emergency Response Phone: 207-838-4077	4. Waste Tracking Number: FP- Bruns - 018

5. Generator's Name and Mailing Address: Fairpoint Communications (Davis Farm Rd) Portland, ME 04103

Generator's Site Address (if different than mailing address): 360 Bath Rd Brunswick, ME 04011

Generator's Phone: 207-535-4157

6. Transporter 1 Company Name: CPRC Group — U.S. EPA ID Number: Not Required

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: CPRC Group, 2 Gibson Rd, Scarborough, ME 04074 — U.S. EPA ID Number: Not Required

Facility's Phone: 207-883-3325

9. Waste Shipping Name and Description	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.
1. Non Regulated Material (Petroleum Contaminated Soil)	001	DT	25	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
(1) Contaminated Soil

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Larry R Verville Agent — Signature: [signature] — Month: 10 Day: Year: 16

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: DAVID MORTON — Signature: [signature] — Month: 10 Day: 14 Year: 16
Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Maria Manley — Signature: [signature] — Month: 10 Day: 14 Year: 16

GENERATOR — TRANSPORTER — INT'L — DESIGNATED FACILITY

169-BLS-C 5 11979 (Rev. 9/09) TRANSPORTER #1

CPRC GROUP

70 Pleasant Hill Rd. Road, Scarborough, ME 04074
TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133
THANK YOU FOR YOUR PATRONAGE!!!

Customer: 12659
GRANITE ENVIRONMENTAL
P O BOX 877
ROCKPORT, MA 01966

Job: 3503825
FAIRPOINT COMMUNICATI
360 OLD BATH ROAD
BRUNSWICK, ME
POCS

Truck: FRANK2
Driver: FRANK2
Mix: 3105
Mix Name: POCS

Ticket: 00428900
Operator: 1

Tare	Net	Gross		Job Today	Job ToDate
16.38	35.49	51.87	Ton	99.06	99.06

Loads Today	Loads ToDate	Date & Time		Fob/Del	
3	3	10/27/2016	2:10:42PM	FOB	STORED TARE

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number

GENERATOR

5. Generator's Name and Mailing Address

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1.			25		
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name — Signature — Month 10 — Day 1 — Year 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name — Signature — Month 10 — Day 27 — Year 16

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month 10 — Day 27 — Year 16

CPRC GROUP

70 Pleasant Hill Rd. Road, Scarborough, ME 04074
TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133
THANK YOU FOR YOUR PATRONAGE!!!

Customer: 12659
GRANITE ENVIRONMENTAL
P O BOX 877
ROCKPORT, MA 01966

Job: 3503825
FAIRPOINT COMMUNICATI
360 OLD BATH ROAD
BRUNSWICK, ME
POCS

Truck: SPLASH25
Driver: SPLASH 25
Mix: 3105
Mix Name: POCS

Ticket: 00428894
Operator: 1

Tare	Net	Gross		Job Today	Job ToDate
17.22	29.49	46.71	Ton	63.57	63.57

Loads Today	Loads ToDate	Date & Time		Fob/Del
2	2	10/27/2016	1:36:12PM	FOB

STORED
TARE

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Not Required	1	207-838-4077	FR-Brns-025

GENERATOR

5. Generator's Name and Mailing Address: Fairpoint Communications, 1 Davis Farm Rd, Portland, ME 04103
Generator's Phone: 207-535-4157
Generator's Site Address (if different than mailing address): 360 Bath Rd, Brunswick, ME 04011

6. Transporter 1 Company Name: CPRC Group — U.S. EPA ID Number: Not Required

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: CPRC Group, 2 Gibson Rd, Scarborough, ME 04074
Facility's Phone: 207-883-3325 — U.S. EPA ID Number: Not Required

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Regulated Material (Petroleum Contaminated Soil)	001	DT	25	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
① Contaminated Soil

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.
Generator's/Offeror's Printed/Typed Name: Daryl R Verville Agent — Signature — Month 10 Day 27 Year 16

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Adam Jordan — Signature — Month 10 Day 27 Year 16
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: M. Montague — Signature — Month 10 Day 27 Year 16

169-BLS-C 5 11979 (Rev. 2/09) DESIGNATED FACILITY TO GENERATOR

CPRC GROUP

70 Pleasant Hill Rd. Road, Scarborough, ME 04074
TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133
THANK YOU FOR YOUR PATRONAGE!!!

BY:

Customer: 12659
GRANITE ENVIRONMENTAL
P O BOX 877
ROCKPORT, MA 01966

Job: 3503825
FAIRPOINT COMMUNICATI
360 OLD BATH ROAD
BRUNSWICK, ME
POCS

Truck: SPLASH25
Driver: SPLASH 25
Mix: 3105
Mix Name: POCS

Ticket: 00428868
Operator: 1

Tare	Net	Gross		Job Today	Job ToDate
17.22	34.08	51.30	Ton	34.08	34.08

Loads Today	Loads ToDate	Date & Time	Fob/Del	
1	1	10/27/2016 11:34:04AM	FOB	STORED TARE

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	Not Required	1	207-838-4077	FP-Bruns-024

5. Generator's Name and Mailing Address: Fairpoint communications, 1 Davis Farm Rd, Portland, ME 04103
Generator's Phone: 207-535-4157
Generator's Site Address (if different than mailing address): 360 Bath Rd, Brunswick, ME 04011

6. Transporter 1 Company Name: CPRC Group — U.S. EPA ID Number: Not Required

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: CPRC Group, 2 Gibson Rd, Scarborough, ME 04074 — U.S. EPA ID Number: Not Required
Facility's Phone: 207-883-3325

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non Regulated Material (Petroleum Contaminated Soil)	001	DT	25	T
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
① Contaminated Soil

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.
Generator's/Offeror's Printed/Typed Name: Pam L Venille Agent — Signature: [signature] — Month/Day/Year: 10/27/16

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. — Port of entry/exit: — Transporter Signature (for exports only): — Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Adam Jordan — Signature: [signature] — Month/Day/Year: 10/27/16
Transporter 2 Printed/Typed Name — Signature — Month/Day/Year:

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month/Day/Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a
Printed/Typed Name: Marcia Montague — Signature: [signature] — Month/Day/Year: 10/27/16

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

169-BLS-C 5 11979 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

CPRC GROUP

70 Pleasant Hill Rd. Road, Scarborough, ME 04074
TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.103
THANK YOU FOR YOUR PATRONAGE!!

BY:

Customer: 12659
GRANITE ENVIRONMENTAL
P O BOX 877
ROCKPORT, MA 01966

Job: 3503825
FAIRPOINT COMMUNICATI
360 OLD BATH ROAD
BRUNSWICK, ME
POCS

Truck: FRANK2
Driver: FRANK2
Mix: 3105
Mix Name: POCS

Ticket: 00428978
Operator: 1

Tare	Net	Gross		Job Today	Job ToDate
16.38	25.41	41.79	Ton	147.64	147.64

Loads Today	Loads ToDate	Date & Time		Fob/Del
5	5	10/28/2016	3:24:14PM	FOB

STORED
TARE

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NOT REQUIRED | 2. Page 1 of 1 | 3. Emergency Response Phone: 207 338 4077 | 4. Waste Tracking Number: FP-Bruns-031

5. Generator's Name and Mailing Address: FairPoint Communications, 1 Davis Farm Rd Portland, Me 04103
Generator's Phone: 207 535 4154
Generator's Site Address (if different than mailing address): 360 Bath Rd, Brunswick, ME 04011

6. Transporter 1 Company Name: CPRC Group | U.S. EPA ID Number: NOT Required

7. Transporter 2 Company Name | U.S. EPA ID Number

8. Designated Facility Name and Site Address: CPRC Group, 2 Gibson Rd Me 04074, Scarborough
Facility's Phone: 207 883 3325 | U.S. EPA ID Number: NOT REQUIRED

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON Regulated Material (Petroleum Contaminated Soil)	001	DT	00025	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
(1) Petroleum Contaminated Soil

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.
Generator's/Offeror's Printed/Typed Name: Darryl R Venilk Agent | Signature | Month 10 | Day 28 | Year 16

INT'L
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER
16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: X David Morton | Signature | Month 10 | Day 28 | Year 16
Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY
17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) | U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Marcia Montagne | Signature | Month 10 | Day 28 | Year 16

169-BLS-C 5 11979 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

CPRC GROUP

70 Pleasant Hill Rd. Road, Scarborough, ME 04074
TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133
THANK YOU FOR YOUR PATRONAGE!!!

Customer: 12659
GRANITE ENVIRONMENTAL
P O BOX 877
ROCKPORT, MA 01966

Job: 3503825
FAIRPOINT COMMUNICATI
360 OLD BATH ROAD
BRUNSWICK, ME
POCS

Truck: SPLASH25
Driver: SPLASH 25
Mix: 3105
Mix Name: POCS

Ticket: 00428974
Operator: 1

Tare	Net	Gross		Job Today	Job ToDate
17.22	28.18	45.40	Ton	122.23	122.23

Loads Today	Loads ToDate	Date & Time		Fob/Del
4	4	10/28/2016	2:36:13PM	FOB

STORED
TARE

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number: NOT REQUIRED	2. Page 1 of 1	3. Emergency Response Phone: 207 838 4017	4. Waste Tracking Number: FP-Bruns-030

5. Generator's Name and Mailing Address: [illegible]
1 Davis Farm Rd
Portland ME [illegible]
Generator's Phone: 207 [illegible]

Generator's Site Address (if different than mailing address): 360 [illegible]
Brunswick Maine [illegible]

6. Transporter 1 Company Name: [illegible] Group
U.S. EPA ID Number: NOT REQUIRED

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: [illegible]
2 Gibson Rd
Scarborough ME 04074
Facility's Phone: 207 883 3325
U.S. EPA ID Number: NOT [illegible]

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. NON Regulated Material (Petroleum Contaminated soil)	001	DT	[illegible]	T
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
[illegible]

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Darryl R Verville, agent
Signature: [signature]
Month: 10 Day: 28 Year: 16

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Adam [illegible]
Signature: [signature]
Month: 10 Day: 28 Year: 16

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Marcia Montague
Signature: [signature]
Month: 10 Day: 28 Year: 16

169-BLS-C 5 11979 (Rev. 9/09)

TRANSPORTER #2

CPRC GROUP

70 Pleasant Hill Rd. Road, Scarborough, ME 04074
TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133
THANK YOU FOR YOUR PATRONAGE!

BY:

Customer: 12659
GRANITE ENVIRONMENTAL
P O BOX 877
ROCKPORT, MA 01966

Job: 3503825
FAIRPOINT COMMUNICATI
360 OLD BATH ROAD
BRUNSWICK, ME
POCS

Truck: FRANK2
Driver: FRANK2
Mix: 3105
Mix Name: POCS

Ticket: 00428960
Operator: 1

Tare	Net	Gross		Job Today	Job ToDate
16.38	31.85	48.23	Ton	94.05	94.05

Loads Today	Loads ToDate	Date & Time	Fob/Del
3	3	10/28/2016 12:54:35PM	FOB

STORED
TARE

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: Not Required
2. Page 1 of: 1
3. Emergency Response Phone: 207-838-4077
4. Waste Tracking Number: FP-Bruns-029

GENERATOR

5. Generator's Name and Mailing Address: Fairpoint Communications, 1 Davis Farm Rd, Portland, ME 04103
Generator's Site Address (if different than mailing address): 360 Bath Rd, Brunswick, ME 04011
Generator's Phone: 207-535-4157

6. Transporter 1 Company Name: CPRC Group
U.S. EPA ID Number: Not Required

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: CPRC Group, 2 Gibson Rd, Scarborough, ME 04074
U.S. EPA ID Number: Not Required
Facility's Phone: 207-883-3324

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non Regulated Material (Petroleum Contaminated Soil)	001	DT	25	T
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
1) Contaminated Soil

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.
Generator's/Offeror's Printed/Typed Name: Daryl R Verville Agent
Signature:
Month: 10 Day: 28 Year: 15

TRANSPORTER INTL

15. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: DAVID MARTIN
Signature:
Month: 10 Day: 28 Year: 15
Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:
17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

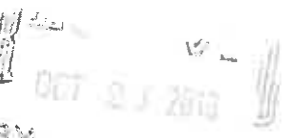
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a
Printed/Typed Name: Melissa Montagne
Signature:
Month: 10 Day: 28 Year: 15

169-BLS-C 5 11979 (Rev. 9/09)

DESIGNATED FACILITY'S COPY

CPRC GROUP

70 Pleasant Hill Rd. Road, Scarborough, ME 04074
TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133
THANK YOU FOR YOUR PATRONAGE!!!



Customer: 12659
GRANITE ENVIRONMENTAL
P O BOX 877
ROCKPORT, MA 01966

Job: 3503825
FAIRPOINT COMMUNICATI
360 OLD BATH ROAD
BRUNSWICK, ME
POCS

Truck: SPLASH25
Driver: SPLASH 25
Mix: 3105
Mix Name: POCS

Ticket: 00428955
Operator: 1

Tare	Net	Gross		Job Today	Job ToDate
17.22	30.81	48.03	Ton	62.20	62.20

Loads Today	Loads ToDate	Date & Time	Fob/Del
2	2	10/28/2016 11:55:12AM	FOB

STORED
TARE

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: Not Required
2. Page 1 of: 1
3. Emergency Response Phone: 207-838-4777
4. Waste Tracking Number: FP-Bruns-0AB

5. Generator's Name and Mailing Address: Fairpoint Communications, 1 Davis Farm Rd, Portland, ME 04103
Generator's Site Address (if different than mailing address): 360 Bath Rd, Brunswick, ME 04011
Generator's Phone: 207-235-1157

6. Transporter 1 Company Name: CPRC Group — U.S. EPA ID Number: Not Required

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: CPRC Group, 2 Gibson Rd, Scarborough, ME 04074 — U.S. EPA ID Number: Not Required
Facility's Phone: 207-883-3325

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non Regulated Material (Petroleum Contaminated Soil)	001	DT	25	T
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
(1) Contaminated Soil

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Darryl R Neville Agent — Signature: [signature] — Month: 10 Day: Year: 16

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: [illegible] — Signature: [signature] — Month: 10 Day: 28 Year: 16
Transporter 2 Printed/Typed Name: — Signature: — Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Marcia Montague — Signature: Marcia Montague — Month: 10 Day: 28 Year: 16

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

169-BLS-C 5 11979 (Rev. 9/09)

TRANSPORTER #2

CPRC GROUP

70 Pleasant Hill Rd. Road, Scarborough, ME 04074
TEL: (207)883-3325 ~ SCALE: (207)883-2306 EXT.133
THANK YOU FOR YOUR PATRONAGE!!!

Customer: 12659
GRANITE ENVIRONMENTAL
P O BOX 877
ROCKPORT, MA 01966

Job: 3503825
FAIRPOINT COMMUNICATI
360 OLD BATH ROAD
BRUNSWICK, ME
POCS

Truck: SPLASH25
Driver: SPLASH 25
Mix: 3105
Mix Name: POCS

Ticket: 00428928
Operator: 1

Tare	Net	Gross		Job Today	Job ToDate
17.22	31.39	48.61	Ton	31.39	31.39

Loads Today	Loads ToDate	Date & Time		Fob/Del
1	1	10/28/2016	8:38:55AM	FOB

STORED
TARE

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
Not Required	1	207-838-4077	FP-Bruns-027

GENERATOR

5. Generator's Name and Mailing Address: Fairpoint Communications, 1 Davis Farm Rd, Portland, ME 04103
Generator's Phone:
Generator's Site Address (if different than mailing address): 360 Bath Rd, Brunswick, ME 04011

6. Transporter 1 Company Name: CPRC Group — U.S. EPA ID Number: Not Required

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: CPRC Group, 2 Gibson Rd, Scarborough, ME 04074 — U.S. EPA ID Number: Not Required
Facility's Phone: 207-883-3325

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Regulated Material (Petroleum Contaminated Soil)	001	DT	25	T	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
① Contaminated Soil

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.
Generator's/Offeror's Printed/Typed Name: Dany C Verville Agent — Signature — Month 10 Day — Year

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Edgar Jordan — Signature — Month 10 Day 28 Year 16
Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a
Printed/Typed Name: Marcus Manheger — Signature — Month 10 Day 28 Year 16

169-BLS-C 5 11979 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

ATTACHMENT C

Excavation Screening Sample Data

Fair Point-Brunswick Oct. 2016 soils Group 2
CAPE Technologies EPA Method 4025m
Analysis completed 101816

Lab ID	Client ID	QA: Dup or pg/g spike	TEQ by 4025m	Mean of Dups	**TEQ Sample Results**	Corrected % spike recovery	Duplicate %CV	Notes
1-	ESS-1B	0	8		**11**			unspiked sample
1-d		0 dupe	15	11			43	duplicate unspiked sample
1+		100	174			163		sample spiked with 100 pg/g 2378-TCDD
2-	ESS-2B	0	20		**20**			unspiked sample
2+		100	187			166		sample spiked with 100 pg/g 2378-TCDD
2+d		100 dupe	139	163		119	21	duplicate sample spiked with 100 pg/g 2378-TCDD
3-	ESS-3SW	0	20		**20**			unspiked sample
3-d		0 dupe	19	20			2	duplicate unspiked sample
3+		100	134			114		sample spiked with 100 pg/g 2378-TCDD
4-	ESS-4SW	0	25		**25**			unspiked sample
4+		100	123			98		sample spiked with 100 pg/g 2378-TCDD
4+d		100 dupe	141	132		116	10	duplicate sample spiked with 100 pg/g 2378-TCDD
5-	ESS-5SW	0	>263		**>263**			unspiked sample
5-d		0 dupe	>263	xx			xx	duplicate unspiked sample
5+		100	>263			xx		sample spiked with 100 pg/g 2378-TCDD
5+d		100 dupe	>263	xx		xx	xx	duplicate sample spiked with 100 pg/g 2378-TCDD
6-	ESS-6SW	0	20		**20**			unspiked sample
6+		100	>263			xx		sample spiked with 100 pg/g 2378-TCDD
6+d		100 dupe	190	xx		170	xx	duplicate sample spiked with 100 pg/g 2378-TCDD
7-	ESS-7SW	0	>263		**>263**			unspiked sample
7-d		0 dupe	>263	xx			xx	duplicate unspiked sample
7+		100	>263			xx		sample spiked with 100 pg/g 2378-TCDD
8-	ESS-8B	0	255		**172**			unspiked sample
8-d		0 dupe	89	172			68	duplicate unspiked sample
8+		100	>263			xx		sample spiked with 100 pg/g 2378-TCDD
8+d		100 dupe	>263	xx		xx		duplicate sample spiked with 100 pg/g 2378-TCDD
MB-		0	6					unspiked method blank
MB-d		0 dupe	3	4			40	duplicate unspiked method blank
MB+		100	136			131		method blank spiked with 10 pg/g 2378-TCDD
MB+d		100 dupe	113	124		108	13	duplicate method blank spiked with 100 pg/g 2378-TCDD

Notes

All results are in pg/g (parts per trillion)

MB = Method Blank

d = Duplicate

"-" indicates sample results

"+" indicates matrix spike sample

"xx" indicates value which could not be calculated due to off scale high result

calibration adjustment factor includes correction for toluene residue effect as measured by evaporation controls

Fair Point-Brunswick Oct. 2016 soils Group 3
CAPE Technologies EPA Method 4025m
Analysis completed 101916

Lab ID	Client ID	QA: Dup or pg/g spike	TEQ by 4025m	Mean of Dups	**TEQ Sample Results**	Corrected % spike recovery	Duplicate %CV	Notes
9-	ESS-9SW	0	70		**71**			unspiked sample
9-d		0 dupe	72	71			1	duplicate unspiked sample
9+		100	108			37		sample spiked with 100 pg/g 2378-TCDD
10-	ESS-10SW	0	101		**101**			unspiked sample
10+		100	194			93		sample spiked with 100 pg/g 2378-TCDD
11-	ESS-11B	0	69		**69**			unspiked sample
11+		100	159			89		sample spiked with 100 pg/g 2378-TCDD
12-	ESS-12SW	0	27		**27**			unspiked sample
12		100	121			94		sample spiked with 100 pg/g 2378-TCDD
13-	ESS-13SW	0	176		**176**			unspiked sample
13+		100	260			83		sample spiked with 100 pg/g 2378-TCDD
13+d		100 dupe	>319	xx		xx	xx	duplicate sample spiked with 100 pg/g 2378-TCDD
14-	ESS-14SW	0	43		**43**			unspiked sample
14+		100	137			95		sample spiked with 100 pg/g 2378-TCDD
15-	ESS-15SW	0	112		**112**			unspiked sample
15+		100	174			62		sample spiked with 100 pg/g 2378-TCDD
16-	ESS-16B	0	58		**58**			unspiked sample
16+		100	209			152		sample spiked with 100 pg/g 2378-TCDD
16+d		100 dupe	>319	xx		xx	xx	duplicate sample spiked with 100 pg/g 2378-TCDD
17-	ESS-17SW	0	35		**35**			unspiked sample
17+		100	150			115		sample spiked with 100 pg/g 2378-TCDD
18-	ESS-18SW	0	79		**57**			unspiked sample
18-d		0 dupe	35	57			55	duplicate unspiked sample
18+		100	78			21		sample spiked with 100 pg/g 2378-TCDD
19-	ESS-19SW	0	23		**23**			unspiked sample
19+		100	118			96		sample spiked with 100 pg/g 2378-TCDD
MB-		0	3					unspiked method blank
MB-d		0 dupe	4	4			24	duplicate unspiked method blank
MB+		100	90			86		method blank spiked with 10 pg/g 2378-TCDD
MB+d		100 dupe	89	90		85	1	duplicate method blank spiked with 100 pg/g 2378-TCDD

Notes

All results are in pg/g (parts per trillion)

MB = Method Blank

d = Duplicate

"-" indicates sample results

"+" indicates matrix spike sample

"xx" indicates value which could not be calculated due to off scale high result

calibration adjustment factor includes correction for toluene residue effect as measured by evaporation controls

Fair Point-Brunswick Nov. 2016 soils Group 4
CAPE Technologies EPA Method 4025m
Analysis completed 110316

Lab ID	Client ID	QA: Dup or pg/g spike	TEQ by 4025m	Mean of Dups	**TEQ Sample Results**	Corrected % spike recovery	Duplicate %CV	Notes
20-	ESS-105SW	0	60		**64**			unspiked sample
20-d		0 dupe	67	64			8	duplicate unspiked sample
20+		100	166			103		sample spiked with 100 pg/g 2378-TCDD
20+d		100 dupe	257	212		193	30	duplicate sample spiked with 100 pg/g 2378-TCDD
21-	ESS-107SW	0	42		**52**			unspiked sample
21-d		0 dupe	61	52			27	duplicate unspiked sample
21+		100	155			104		sample spiked with 100 pg/g 2378-TCDD
22-	ESS-108B	0	37		**37**			unspiked sample
22+		100	252			215		sample spiked with 100 pg/g 2378-TCDD
22+d		100 dupe	169	211		132	28	duplicate sample spiked with 100 pg/g 2378-TCDD
23-	ESS-110SW	0	1		**2**			unspiked sample
23-d		0 dupe	4	2			111	duplicate unspiked sample
23+		100	120			118		sample spiked with 100 pg/g 2378-TCDD
24-	ESS-113SW	0	1		**1**			unspiked sample
24+		100	121			119		sample spiked with 100 pg/g 2378-TCDD
24+d		100 dupe	175	148		174	26	duplicate sample spiked with 100 pg/g 2378-TCDD
25-	ESS-115SW	0	2		**1**			unspiked sample
25-d		0 dupe	0.3	1			96	duplicate unspiked sample
25+		100	114			113		sample spiked with 100 pg/g 2378-TCDD
25+d		100 dupe	187	151		186	34	duplicate sample spiked with 100 pg/g 2378-TCDD
MB-		0	0.3					unspiked method blank
MB-d		0 dupe	xx	xx			xx	duplicate unspiked method blank
MB+		100	92			92		method blank spiked with 10 pg/g 2378-TCDD
MB+d		100 dupe	79	85		79	11	duplicate method blank spiked with 100 pg/g 2378-TCDD

Notes

All results are in pg/g (parts per trillion)

MB = Method Blank

d = Duplicate

"-" indicates sample results

"+" indicates matrix spike sample

"xx" indicates value which could not be calculated due to off scale low/high result

calibration adjustment factor includes correction for toluene residue effect as measured by evaporation controls

Attachment D

UCL 95 Calculations

Fairpoint Brunswick
Dioxin UCL Calcutation
DU-1

Calculation of Weighted 95% UCLs for a Combined Decision Unit (DU) from Several Smaller DUs

See the "Instructions" tab (worksheet) for detailed instructions.

Select whether the DU is based on area or volume:	Area

Number of increments per replicate:	30

DU	DU Name	DU Area (any constant units)	Replicate concentration					Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SD of increments	CV of DU	SE of DU	95% UCL	
			Rep 1	Rep 2	Rep 3	Rep 4	Rep 5								Student's-t	Chebychev
1	DU-1 Debris Pile Bottom (DU-1)	2000.00	3.4	13	0.28			3	1.00	5.6	6.6	36.3	6.5	3.8	16.7	22.2
2																
3																
4																
5																
6																
7																
8																
9																
10																
Combined DUs Weighted by Area		**2000.00**	--	--	--	--	--	**3**	**1.00**	**5.6**	**6.6**	**0.7**	**High**	**3.8**	**16.7**	**22.2**

Degrees of freedom by Welch-Satterthwaite approximation	

Chebychev 95% UCL is recommended because the dispersion of the data is high.	**Recommended UCL**	
	Chebyshev 95% UCL	**22.2**
The User should consult the instructions for additional guidance on which 95% UCL is recommended for specific data sets.		

Notes

DU	Decision unit
SD	Standard deviation
SE	Standard errror
UCL	Upper confidence limit

Fairpoint Brunswick
Dioxin UCL Calcutation
DU-2

Calculation of Weighted 95% UCLs for a Combined Decision Unit (DU) from Several Smaller DUs

See the "Instructions" tab (worksheet) for detailed instructions.

Select whether the DU is based on area or volume:	Area

Number of increments per replicate:	30

DU	DU Name	DU Area (any constant units)	Replicate concentration					Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SD of increments	CV of DU	SE of DU	95% UCL	
			Rep 1	Rep 2	Rep 3	Rep 4	Rep 5								Student's-t	Chebychev
1	SU-2 Debris Pile Sidewall 1(DU-2)	190.00	2.5	1.8	4.2			3	1.00	2.8	1.2	6.8	2.4	0.7	4.9	5.9
2																
3																
4																
5																
6																
7																
8																
9																
10																
Combined DUs Weighted by Area		**190.00**	--	--	--	--	--	**3**	**1.00**	**2.8**	**1.2**	**0.1**	**Medium**	**0.7**	**4.9**	**5.9**

Degrees of freedom by Welch-Satterthwaite approximation	

Chebychev 95% UCL is recommended because the dispersion of the data is high.	**Recommended UCL**	
	Chebyshev 95% UCL	**5.9**
The User should consult the instructions for additional guidance on which 95% UCL is recommended for specific data sets.		

Notes

DU	Decision unit
SD	Standard deviation
SE	Standard errror
UCL	Upper confidence limit

Fairpoint Brunswick
Dioxin UCL Calcutation
DU-3

Calculation of Weighted 95% UCLs for a Combined Decision Unit (DU) from Several Smaller DUs

See the "Instructions" tab (worksheet) for detailed instructions.

Select whether the DU is based on area or volume:	Area

Number of increments per replicate:	30

DU	DU Name	DU Area (any constant units)	Replicate concentration					Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SD of increments	CV of DU	SE of DU	95% UCL	
			Rep 1	Rep 2	Rep 3	Rep 4	Rep 5								Student's-t	Chebychev
1	SU-3 Debris Pile Sidewall 2 (DU-3)	180.00	28	30	41			3	1.00	33.0	7.0	38.3	1.2	4.0	44.8	50.6
2																
3																
4																
5																
6																
7																
8																
9																
10																
Combined DUs Weighted by Area		**180.00**	--	--	--	--	--	**3**	**1.00**	**33.0**	**7.0**	**0.7**	**Low**	**4.0**	**44.8**	**50.6**

Degrees of freedom by Welch-Satterthwaite approximation	

Student's-t or Chebychev 95% UCL may be appropriate.	**Recommended UCL**	
	Student's t 95% UCL	**44.8**
The User should consult the instructions for additional guidance on which 95% UCL is recommended for specific data sets.		

Notes

DU	Decision unit
SD	Standard deviation
SE	Standard errror
UCL	Upper confidence limit

Fairpoint Brunswick
Dioxin UCL Calcutation
DU-4

Calculation of Weighted 95% UCLs for a Combined Decision Unit (DU) from Several Smaller DUs

See the "Instructions" tab (worksheet) for detailed instructions.

Select whether the DU is based on area or volume:	Area

Number of increments per replicate:	30

SU	SU Name	DU Area (any constant units)	Replicate concentration					Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SD of increments	CV of DU	SE of DU	95% UCL	
			Rep 1	Rep 2	Rep 3	Rep 4	Rep 5								Student's-t	Chebychev
3	SU-3 (Pole Crib Sidewall 1)	194.00	7.6	5.6	5.1			3	0.42	6.1	1.3	7.2	1.2	0.8	8.3	9.4
5	SU-5 (Pole Crib Sidewall 2)	270.00	4.4	1.9	2.3			3	0.58	2.9	1.3	7.4	2.6	0.8	5.1	6.2
Combined DUs Weighted by Area		**464.00**	--	--	--	--	--	**6**	**1.00**	**4.2**	**1.0**	**0.1**	**Medium**	**0.6**	**5.5**	**6.6**

Degrees of freedom by Welch-Satterthwaite approximation	

Chebychev 95% UCL is recommended because the dispersion of the data is high.	**Recommended UCL**	
	Chebyshev 95% UCL	**6.6**
The User should consult the instructions for additional guidance on which 95% UCL is recommended for specific data sets.		

Notes

DU	Decision unit
SD	Standard deviation
SE	Standard errror
UCL	Upper confidence limit

Fairpoint Brunswick
Dioxin UCL Calcutation
DU-5

Calculation of Weighted 95% UCLs for a Combined Decision Unit (DU) from Several Smaller DUs

See the "Instructions" tab (worksheet) for detailed instructions.

Select whether the DU is based on area or volume:	Area

Number of increments per replicate:	30

SU	SU Name	SU Area (any constant units)	Replicate concentration					Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SD of increments	CV of DU	SE of DU	95% UCL	
			Rep 1	Rep 2	Rep 3	Rep 4	Rep 5								Student's-t	Chebychev
7	SU-7 (Pole Crib Sidewall 3)	200.00	1.5	0.46	0.38			3	0.50	0.8	0.6	3.4	4.4	0.4	1.8	2.4
8	SU-8 (Pole Crib Sidewall 4)	200.00	7.2	2.3	6			3	0.50	5.2	2.6	14.0	2.7	1.5	9.5	11.6
Combined DUs Weighted by Area		**400.00**	--	--	--	--	--	**6**	**1.00**	**3.0**	**1.3**	**0.1**	**High**	**0.8**	**5.2**	**6.3**

Degrees of freedom by Welch-Satterthwaite approximation	

Chebychev 95% UCL is recommended because the dispersion of the data is high.	**Recommended UCL**	
	Chebyshev 95% UCL	**6.3**
The User should consult the instructions for additional guidance on which 95% UCL is recommended for specific data sets.		

Notes

DU	Decision unit
SD	Standard deviation
SE	Standard errror
UCL	Upper confidence limit

Fairpoint Brunswick
Dioxin UCL Calcutation
DU-6

Calculation of Weighted 95% UCLs for a Combined Decision Unit (DU) from Several Smaller DUs

See the "Instructions" tab (worksheet) for detailed instructions.

Select whether the DU is based on area or volume:	Area

Number of increments per replicate:	30

SU	SU Name	SU Area (any constant units)	Replicate concentration					Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SD of increments	CV of DU	SE of DU	95% UCL	
			Rep 1	Rep 2	Rep 3	Rep 4	Rep 5								Student's-t	Chebychev
7	SU-4 (Pole Crib Bottom)	1860.00	13	13	16			3	0.48	14.0	1.7	9.5	0.7	1.0	16.9	18.4
8	SU-6 (Pole Crib Bottom)	2000.00	5.3	11	8			3	0.52	8.1	2.9	15.6	1.9	1.6	12.9	15.3
Combined DUs Weighted by Area		**3860.00**	--	--	--	--	--	**6**	**1.00**	**10.9**	**1.7**	**0.1**	**Medium**	**1.0**	**13.2**	**15.2**

Degrees of freedom by Welch-Satterthwaite approximation	

Chebychev 95% UCL is recommended because the dispersion of the data is high.	**Recommended UCL**	
	Chebyshev 95% UCL	**15.2**
The User should consult the instructions for additional guidance on which 95% UCL is recommended for specific data sets.		

Notes

DU	Decision unit
SD	Standard deviation
SE	Standard errror
UCL	Upper confidence limit

Fairpoint Brunswick
Arsenic UCL Calculation
DU-3

Calculation of Weighted 95% UCLs for a Combined Decision Unit (DU) from Several Smaller DUs
See the "Instructions" tab (worksheet) for detailed instructions.

Select whether the DU is based on area or volume:	Area

Number of increments per replicate:	30

DU	DU Name	DU Area (any constant units)	Replicate concentration					Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SD of increments	CV of DU	SE of DU	95% UCL	
			Rep 1	Rep 2	Rep 3	Rep 4	Rep 5								Student's-t	Chebychev
1	SU-3 Debris Pile Sidewall 2 (DU-3)	180.00	2.9	2.7	3			3	1.00	2.9	0.2	0.8	0.3	0.1	3.1	3.3
2																
3																
4																
5																
6																
7																
8																
9																
10																
Combined DUs Weighted by Area		**180.00**	--	--	--	--	--	**3**	**1.00**	**2.9**	**0.2**	**0.0**	**Low**	**0.1**	**3.1**	**3.3**

Degrees of freedom by Welch-Satterthwaite approximation	

Student's-t or Chebychev 95% UCL may be appropriate.	**Recommended UCL**	
	Student's t 95% UCL	**3.1**
The User should consult the instructions for additional guidance on which 95% UCL is recommended for specific data sets.		

Notes

DU	Decision unit
SD	Standard deviation
SE	Standard errror
UCL	Upper confidence limit

Fairpoint Brunswick
Arsenic UCL Calculation
DU-4

Calculation of Weighted 95% UCLs for a Combined Decision Unit (DU) from Several Smaller DUs

See the "Instructions" tab (worksheet) for detailed instructions.

Select whether the DU is based on area or volume:	Area

Number of increments per replicate:	30

SU	SU Name	DU Area (any constant units)	Replicate concentration					Number of Replicates	Weight	Arithmetic Mean	SD of replicates	SD of increments	CV of DU	SE of DU	95% UCL	
			Rep 1	Rep 2	Rep 3	Rep 4	Rep 5								Student's-t	Chebychev
3	SU-3 (Pole Crib Sidewall 1)	194.00	3.4	3.2	2.7			3	0.42	3.1	0.4	2.0	0.6	0.2	3.7	4.0
5	SU-5 (Pole Crib Sidewall 2)	270.00	3.2	3.4	3.4			3	0.58	3.3	0.1	0.6	0.2	0.1	3.5	3.6
Combined DUs Weighted by Area		**464.00**	--	--	--	--	--	**6**	**1.00**	**3.2**	**0.2**	**0.0**	**Low**	**0.1**	**3.5**	**3.7**

Degrees of freedom by Welch-Satterthwaite approximation	

Student's-t or Chebychev 95% UCL may be appropriate.	**Recommended UCL**	
	Student's t 95% UCL	**3.5**
The User should consult the instructions for additional guidance on which 95% UCL is recommended for specific data sets.		

Notes

DU	Decision unit
SD	Standard deviation
SE	Standard errror
UCL	Upper confidence limit