

VIA EMAIL

October 10, 2019

Charla Reinganum, P.E.
Global Environmental Management
FedEx Express
2275 S McDowell Blvd Ext
Petaluma, CA 94954

SMA Project No. CQ197011A

**RE: Limited Phase II Environmental Site Assessment
Proposed FedEx Facility
Dane County Regional Airport
3510 Mitchell Street**

Dear Ms. Reinganum:

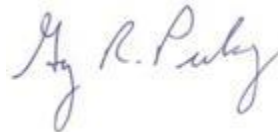
St. John – Mittelhauser & Associates, Inc., a Terracon Company is submitting three bound copies and one electronic copy of its report on the Limited Phase II Environmental Site Assessment performed at the Proposed FedEx Leasehold property located at 3510 Mitchell Street, Madison, Wisconsin. We appreciate the opportunity to be of service.

If you have any questions, please contact Steve Swenson at (815) 255-8300.

Sincerely,



Steven R. Swenson
Senior Geologist
St. John – Mittelhauser & Associates, Inc.,
A Terracon Company



Gary Perkowitz, P.G.
Senior Geologist
St. John – Mittelhauser & Associates, Inc.,
A Terracon Company

Limited Phase II Environmental Site Assessment

**Proposed FedEx Facility
Dane County Regional Airport
3510 Mitchell Street
Madison, Wisconsin**

October 10, 2019
SMA Project No. CQ197011A

Prepared For:

FedEx Express
3620 Hacks Cross Road
Building B 3rd Floor
Memphis, Tennessee 38125

Prepared By:

St. John – Mittelhauser & Associates, Inc.
A Terracon Company
1401 Branding Avenue, Suite 315
Downers Grove, Illinois 60515

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1.0 INTRODUCTION

FedEx Express (FedEx) retained St. John – Mittelhauser & Associates, Inc., a Terracon Company (SMA) to conduct a Limited Phase II Subsurface Investigation (Phase II) for the site of a proposed FedEx facility on the Dane County Regional Airport located at 3510 Mitchell Street in Madison, Wisconsin (Site). The Site includes two parcels, divided by small access road, that are part of the Dane County Regional Airport property.

The objective of the Phase II was to document the soil and groundwater conditions on the Site in general prior to FedEx occupying the Site (i.e. baseline assessment) and assess the recognized environmental conditions (RECs) identified in SMA's Phase I Environmental Site Assessment (Phase I ESA) dated September 11, 2019. These RECs included:

- Potential for Soil and Groundwater Impacts from Historic Use of Mineral Solvents and other Chemicals Commonly Used for Aircraft Maintenance;
- Potential for PFAS Contamination from Historic Air National Guard Operations; and
- Potential for Soil and/or Groundwater Impacts from Former Operations of Fuel Oil Underground Storage Tanks.

All work was completed in accordance with Task Order (TO) 21CBR and the Master Service Agreement between SMA and FedEx dated January 2013.

1.1 RELIANCE

This report has been prepared for the exclusive use of Federal Express Corporation and FedEx Corporation, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Federal Express Corporation and SMA. Any unauthorized distribution or reuse is at Federal Express Corporation's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in the Task Order, the Phase II report, and the MSA between SMA and Federal Express.

1.2 SITE DESCRIPTION

The Site is located at 3510 Mitchell Street in Madison, Dane County, Wisconsin and includes two parcels divided by a small access road. The northern parcel of the Site includes approximately 2.8 acres and the southern parcel includes approximately 1.2 acres. The Site is bounded by Bowman street to the west/southwest. Mitchell Street, which has an east-west orientation, terminates at Bowman Street just to the south of the Site. The Site is bound to the northwest by a property occupied by light aircraft hangar space and to the east by a paved area used as an airplane roadway. Directly adjoining the property to the east (at the western border of the paved airplane roadway) are two buildings used by FedEx for office space and aircraft maintenance. The location of the Site is shown on Figure 1, and the Site layout is shown on Figure 2.

2.0 SCOPE OF WORK

The scope of work for this investigation included the collection of soil and groundwater samples from six (6) soil borings drilled on the Site. Details regarding the scope of work are discussed below.

2.1 SOIL BORINGS

On August 23, 2019, six (6) soil borings (SB-1 to SB-6) were advanced at the Site by CS Drilling of Addison, Illinois. The field activities were supervised by a SMA Senior Staff Geologist. Prior to mobilizing to the Site, the utilities were cleared through Wisconsin's DIGGER one call utility locating service (Locate Ticket No. 20193406024). In addition, a private locate service (GLS Utility, Inc. of Madison, Wisconsin) was retained to clear private utilities within a 25-foot radius of each soil boring.

The soil borings were continuously sampled and advanced to a depth of 12 feet below ground surface (bgs). The REC, the associated soil boring(s), and the rationale for the boring locations are summarized in the following table. The locations of the soil borings are shown on Figure 2.

AREA OF CONCERN	SOIL BORINGS	ANALYSIS
Location of former boiler and estimated location of former 10,000-gallon fuel oil USTs. Potential PFAS impacts associated with Historic Air National Guard Operations.	SB-1	Soil: VOCs, PNAs, and RCRA Metals ¹ Groundwater: VOCs, PNAs, RCRA Metals ¹ , and PFAS ²
Historic usage of the property for aircraft maintenance and repair; reported usage of mineral spirits; investigation around former trench drains	SB-2 through SB-5	Soil: VOCs, PNAs, and RCRA Metals Groundwater: VOCs, PNAs, RCRA Metals ¹ (Total).
Historical usage of the property for aircraft maintenance and repair.	SB-6	Soil: VOCs, PNAs, and RCRA Metals Groundwater: VOCs, PNAs, RCRA Metals ¹ (Total).

¹ RCRA Metals includes Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, and Silver.

² perfluorooctanesulfonates (PFOS) and perfluorooctanoates (PFOA), collectively referred to as polyfluoroalkyl substances (PFAS).

The drilling and sampling equipment were decontaminated prior to and after each boring and between each sampling interval using a detergent and distilled water wash followed by a distilled water rinse. Upon completion, each boring location was backfilled with the drill cuttings.

2.2 SOIL SAMPLE COLLECTION

The soil samples were continuously collected throughout the depth of the soil borings using a Geoprobe[®] equipped with a 4-foot-long sampling tube and fitted with disposable acetate liners. Upon retrieval, the acetate liner was removed from the sample tube and cut open, so the soil could be visually evaluated, logged, and scanned for the presence of volatile organic Compounds (VOCs) using a Mini Rae 3000 photoionization detector (PID) equipped with a 10.6 electron volt (eV) probe. The PID, calibrated to an isobutylene standard, measures total concentrations of organic vapors. The PID cannot identify or quantify specific components. Soil samples were split into two portions; one portion was placed in a sealed plastic bag for headspace analysis with the PID and the other portion was placed into a clean laboratory-provided jar for potential laboratory chemical analysis. The portion of the sample collected for potential VOC analysis was preserved in the field using SW-846 Method 5035.

The SMA Senior Staff Geologist made visual observations and the soils were classified using the Unified Soil Classification System. Observations were also made for the presence of fill material and evidence to suggest impact (e.g., odors, staining, etc.). The soil sample descriptions and field screening results were recorded on boring logs (provided in Appendix A).

Based on field observations and headspace results, and the nature of the area being investigated, one (1) soil sample was collected from the native soil from each boring. Sample containers were labeled and placed in a cooler with ice pending laboratory analysis. Appropriate chain of custody procedures was followed during sample collection and transportation.

The soil samples were submitted to Pace Analytical (Pace) of Green Bay, Wisconsin (Certification No. 405132750) and analyzed according to United States Environmental Protection Agency (USEPA) SW-846 Methods for the following constituents:

- Method 5035/8260B for VOCs;
- Method 8270C for Polynuclear Aromatic Hydrocarbons (PNAs); and
- Method 6010/7071 for RCRA Metals.

2.3 GROUNDWATER SAMPLE COLLECTION

In accordance with the Task Order, a groundwater sample was collected from soil borings SB-1 and SB-2. The groundwater sample was collected by placing a “temporary” well consisting of one-inch diameter PVC screens (5-foot, #10 slot) and riser into the open borehole. To prevent cross contamination, each sample was collected using disposable latex gloves, rope, and a PVC bailer. The sampling equipment was not allowed to touch the ground surface.

In addition to the standard field methodology to prevent cross-contamination described above, SMA followed strict sampling and decontamination procedures during the PFAS sampling. This included the use of PFAS-free sampling containers, supplies, and equipment were used during sampling, and PFAS-free water and Alconox were used for decontamination. The sampling area was kept free of products that contain PFAS, including markers, waterproof field books and paper, post-it notes, blue ice, waterproof clothing and boots, and prepackaged food products.

Sample containers were labeled and placed in a cooler with ice pending laboratory analysis. Appropriate chain of custody procedures was followed during sample collection and transportation. The groundwater samples were submitted to Pace Analytical (Pace) of Green Bay, Wisconsin (Cert) and analyzed according to United States Environmental Protection Agency (USEPA) SW-846 Methods for the following constituents:

- Method 5035/8260B for VOCs;
- Method 8270C for Polynuclear Aromatic Hydrocarbons (PNAs).
- Method 6010/7071 for RCRA Metals
- Method 537(Modified) for PFOS/PFOA

3.0 FINDINGS

3.1 SITE GEOLOGY AND FIELD OBSERVATIONS

Based on the soil borings advanced at the Site under the direction of SMA, the Site is underlain by topsoil and/or fill materials to a depth of approximately 1.1 feet bgs. Underlying the topsoil / fill material is tan to brown fine-grained sand. The fine-grained sand grades to a medium grained sand at a depth of approximately 9 feet bgs and extends to the termination of the soil borings at a depth of 12 feet bgs. Saturated conditions were noted in each soil boring at depths ranging from 5.9 to 6.5 feet bgs.

3.2 ANALYTICAL RESULTS

The soil and groundwater analytical results are summarized in Tables 1 and 2, respectively. A copy of the laboratory report and chain-of-custody record for the soil and groundwater samples is provided in Appendix B. The boring locations are shown on Figure 2.

The soil analytical results were compared to the generic Residual Contaminant Levels (RCLs) listed in Chapter NR 720 Wis. Adm. Code (NR 720) for industrial direct contact, protection of groundwater, and the Background Threshold Values (BTV) for RCRA metals. The groundwater analytical results were compared to the Enforcement Standards listed in Chapter NR 140 (NR 140).

The State of Wisconsin has not established cleanup objectives for PFAS compounds. Therefore, for reference, PFOS and PFOA were compared to the EPA's national health advisory screening level, established at 70 parts per trillion or nanograms per liter (ng/L) (combined PFOS and PFOA compounds).

3.2.1 Soil

VOCs

The analytical results of the soil samples did not identify the presence of VOCs above the reporting limits of the laboratory equipment.

PNAs

Several PNAs were identified in soil sample SB-3 (4 – 5'), located adjacent to the former trench floor drain. The PNAs included benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, indeno(1,2-3cd)pyrene, phenanthrene, and pyrene. However, all compounds were below the generic RCLs for industrial direct contact and protection of groundwater.

RCRA Metals

Several metals, including arsenic, barium, chromium, and lead were identified in one or more soil samples. However, all detected concentrations were below the generic RCLs for industrial direct contact, protection of groundwater, and/or the BTVs.

3.2.2 Groundwater

VOCs

The analytical results of the groundwater samples indicated all VOC compounds were below the reporting limits of the laboratory equipment with the exception of toluene. Toluene was identified in the groundwater sample collected from SB-2 at a concentration of 0.37 ug/l. The Enforcement Standard for toluene is 800 ug/l.

PNAs

Several PNAs including acenaphthene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(g,h,i)perylene, fluoranthene, 1-methylnaphthalene, 2-methylnaphthalene, phenanthrene, and/or pyrene were identified in the groundwater samples collected from SB-1 and SB-2. However, all were below their respective Enforcement Standards.

RCRA Metals

Arsenic, barium, cadmium, chromium, lead, mercury, selenium, and/or silver were identified in the groundwater samples collected from SB-1 and/or SB-2. Several metals exceeded their respective Enforcement Standards. This includes: arsenic (SB-1 and SB-2), barium (SB-2), cadmium (SB-2), chromium (SB-2), lead (SB-2), and selenium (SB-2). However, the temporary wells were not developed and the groundwater samples were not field filtered and therefore it is possible that the concentrations are elevated due to metals sorbed to suspended solids within the turbid groundwater.

PFAS

PFOA was reported at a concentration of 13 nanograms per liter (ng/L). PFOS was reported at a concentration of 38 ng/L. The EPA's health advisor level for PFAS (combined PFOS and PFOA compounds) is currently established at 70 ng/L.

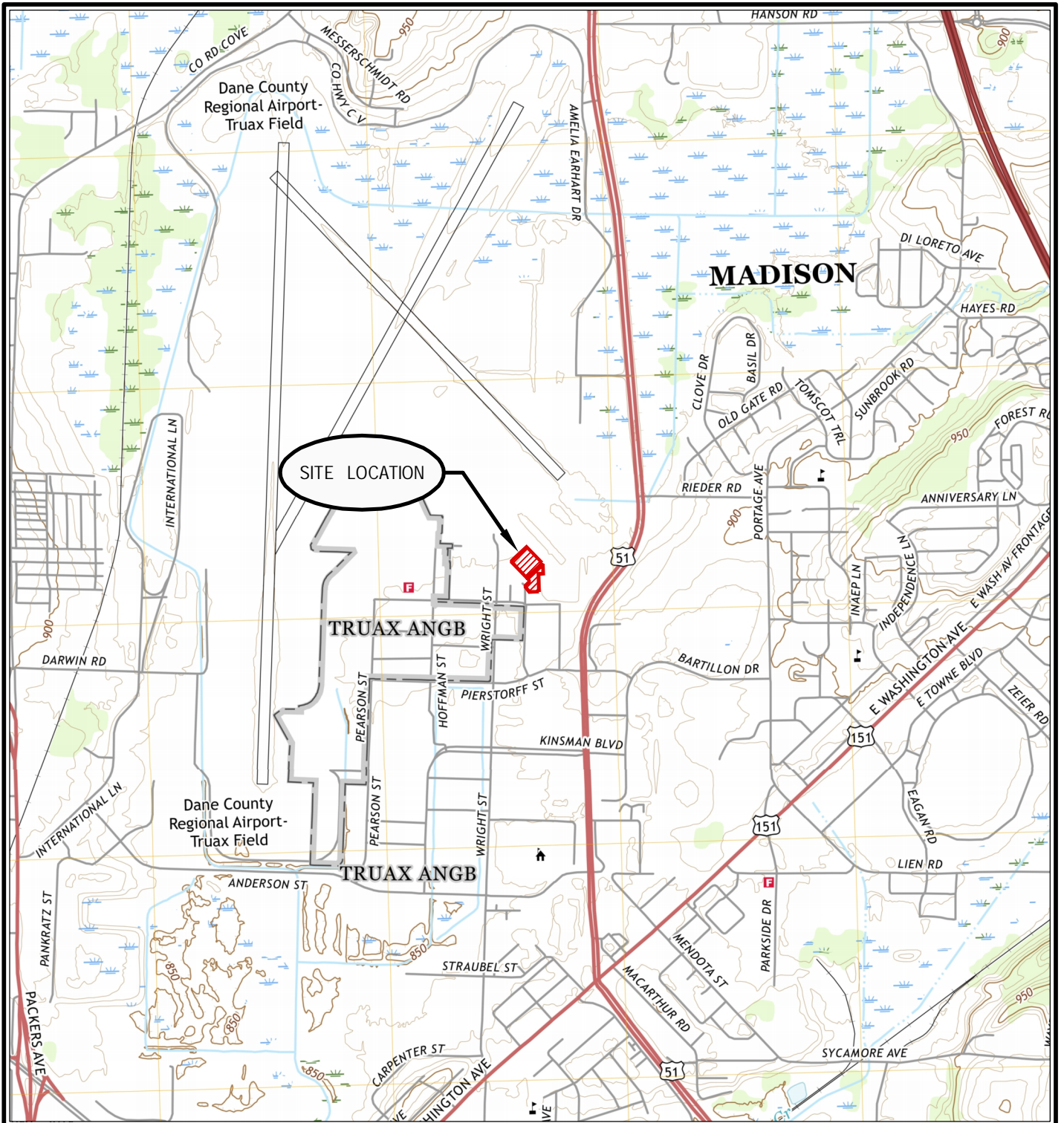
4.0 CONCLUSIONS

The purpose of this Phase II was to assess the RECs identified in SMA's Phase I dated September 11, 2019 and to document soil and groundwater conditions at the Site in general (i.e. baseline assessment) prior to leasing of the Site by FedEx. Due to the limited sampling performed, the nature and extent of impact at the Site may be more extensive and higher concentration of the contaminants maybe present in the underlying soil and groundwater. Therefore, a soil management plan is recommended to address the potential for higher impacts of contaminants, should they be identified, during excavation and/or construction activities at the Site.

Below is a summary of findings from SMA's Limited Phase II ESA of the Site:

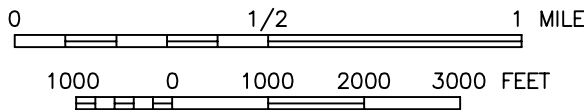
1. Based on the soil borings advanced at the Site, the Site is underlain topsoil and/or fill materials to a depth of approximately 1.1 feet bgs. Underlying the topsoil / fill material is tan to brown fine-grained sand. The fine-grained sand grades to a medium grained sand at a depth of approximately 9 feet bgs and extends to the termination of the soil borings at a depth of 12 feet bgs. Saturated conditions were noted in each soil boring at depths ranging from 5.9 to 6.5 feet bgs;
2. The analytical results of the soil samples indicated:
 - a. All VOCs were below the reporting limits of the laboratory equipment;
 - b. Several PNAs were identified in soil sample SB-3 (4-5'). However, the analytical results were below their respective RCLs for direct industrial contact and protection of groundwater; and
 - c. Several RCRA metals were identified in the soil samples. However, the analytical results were below their respective RCLs for direct industrial contact and protection of groundwater, and/or the BTV.
3. The analytical results of the groundwater samples indicated:
 - a. All VOCs were reported below their laboratory reporting limits with the exception of toluene in SB-2. Toluene was identified at a concentration of 0.37 ug/l. The Enforcement Standard for toluene is 800 ug/l;
 - b. Several PNAs were identified in the groundwater samples collected from SB-1 and SB-2. However, all were below their respective Enforcement Standards; and
 - c. Several RCRA metals were identified in groundwater samples collected from SB-1 and SB-2 above their Enforcement Standards. To determine if the observed concentrations are associated with metals sorbed onto suspended soil particles or if they are indicative of actual groundwater quality, further investigation will be necessary.
4. PFOA and PFOS were identified in the groundwater sample collected from SB-1 at a concentration of 13 ng/l and 38 ng/l respectively. The US EPA's health advisory level for PFAS (combined PFOS and PFOA compounds) is currently established at 70 ng/L.

FIGURES



QUADRANGLE LOCATION

Scale 1:24000



(SOURCE OF MAP IS USGS 7.5 MINUTE QUADRANGLE MAPS, MADISON EAST (2018), WISCONSIN)



CHECK BY	SRS
DRAWN BY	OS
DATE	8-19-19
SCALE	AS SHOWN
CAD NO.	CQ197011A.01A
PRJ NO.	CQ197011A

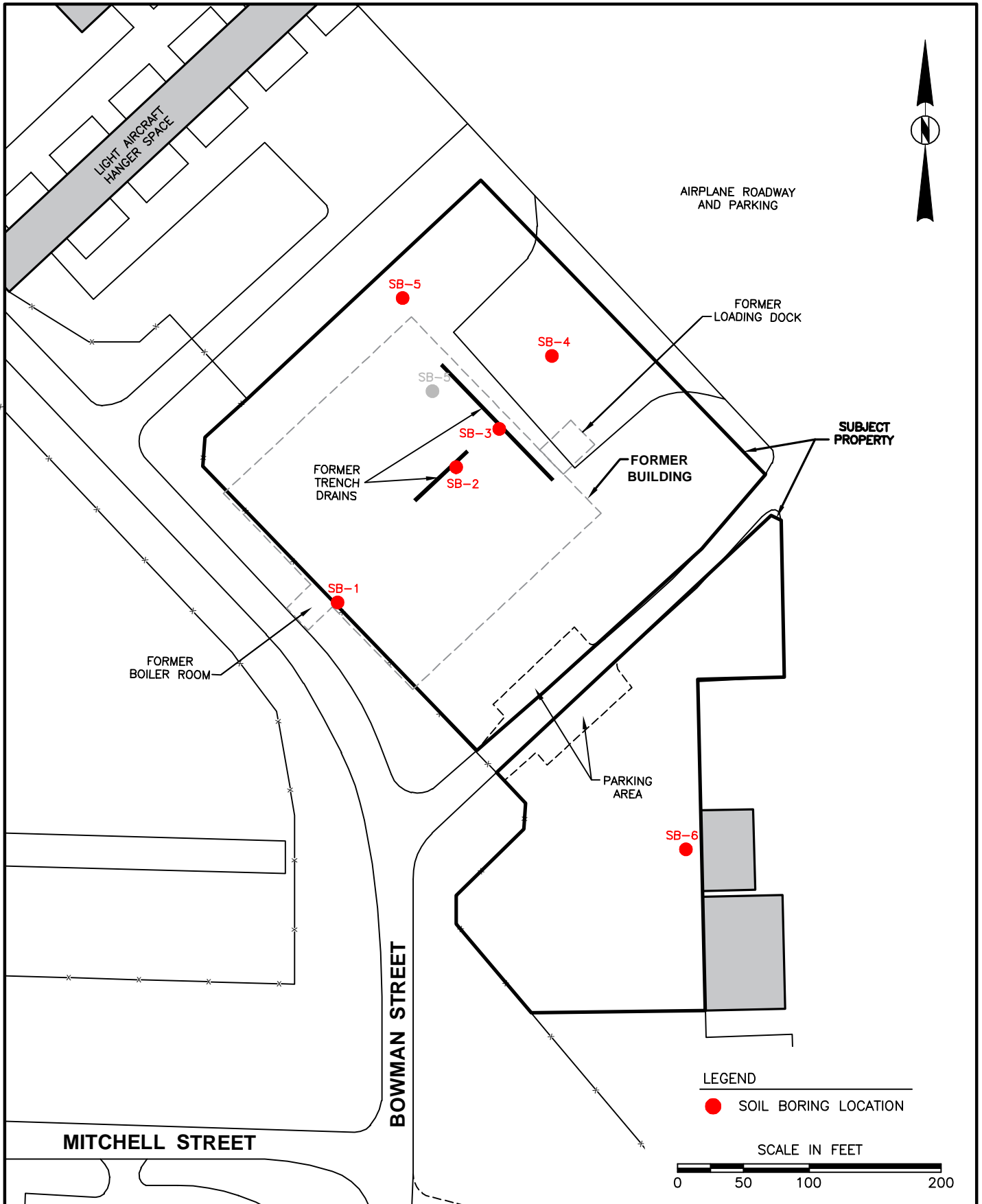
SITE LOCATION MAP

PROPOSED FEDEX FACILITY
 DANE COUNTY REGIONAL AIRPORT
 3510 MITCHELL STREET
 MADISON, WISCONSIN



FIGURE

1



CHECK BY	SRS
DRAWN BY	OS
DATE	8-27-19
SCALE	AS SHOWN
CAD NO.	CQ197011A.01B
PRJ NO.	CQ197011A

SITE FEATURES MAP

DANE COUNTY AIRPORT PARCELS
 3510 MITCHELL STREET
 MADISON, WISCONSIN

SMA
 ST. JOHN-MITTELHAUSER & ASSOCIATES
 A Terracon COMPANY

FIGURE
2

TABLES

Table 1
Soil Analytical Results - August 23, 2019

FedEx MNSR
Dane County Airport / Madison, WI

Parameters	Generic RCLs ⁽¹⁾⁽²⁾		Wisconsin Soil Background Threshold Value	SB-1 (4 - 6 ft)	SB-2 (5 - 6 ft)	SB-3 (4 - 5 ft)	SB-4 (1.5 - 2.5 ft)	SB-5 (4 - 5 ft)	SB-6 (4.5 - 5.5 ft)
	Industrial Direct Contact	Protection of Groundwater							
VOCs* (5035A/8260B)*									
Various VOCs	Various	Various	NA	ND	ND	ND	ND	ND	ND
PAHs (8270C)									
Acenaphthene	45,200	NE	NA	<0.0043	<0.0043	<0.004	<0.004	<0.0044	<0.0045
Acenaphthylene	NE	NE	NA	<0.0036	<0.0036	<0.0034	<0.0034	<0.0037	<0.0038
Anthracene	100,000	196.949	NA	<0.0063	<0.0063	<0.0059	<0.0059	<0.0065	<0.0066
Benzo(a)anthracene	20.8	NE	NA	<0.0035	<0.0035	0.0112	<0.0033	<0.0036	<0.0037
Benzo(a)pyrene	2.11	0.47	NA	<0.0028	<0.0028	0.0135	<0.0026	<0.0028	<0.0029
Benzo(b)fluoranthene	21.1	0.4793	NA	<0.0031	<0.0031	0.0179	<0.0029	<0.0032	<0.0033
Benzo(g,h,i)perylene	NE	NE	NA	<0.0022	<0.0022	0.014	<0.0021	<0.0023	<0.0023
Benzo(k)fluoranthene	211	NE	NA	<0.0028	<0.0028	0.0143	<0.0025	<0.0028	<0.0029
Chrysene	2,110	0.1446	NA	<0.0037	<0.0037	0.0184	<0.0035	<0.0038	<0.0039
Dibenzo(a,h)anthracene	2.11	NE	NA	<0.0025	<0.0025	0.004 J	<0.0023	<0.0025	<0.0026
Fluoranthene	30,100	88.878	NA	<0.0057	<0.0057	0.0336	<0.0054	<0.0059	<0.006
Fluorene	30,100	14.83	NA	<0.0046	<0.0046	<0.0043	<0.0043	<0.0047	<0.0048
Indeno(1,2,3-cd)pyrene	21.1	NE	NA	<0.0024	<0.0024	0.0106	<0.0023	<0.0025	<0.0025
1-Methylnaphthalene	72.7	NE	NA	<0.0044	<0.0044	<0.0042	<0.0042	<0.0046	<0.0026
2-Methylnaphthalene	3,010	NE	NA	<0.0055	<0.0055	<0.0052	<0.0052	<0.0057	<0.0058
Naphthalene	24.1	0.6582	NA	<0.0093	<0.0093	<0.0087	<0.0087	<0.0095	<0.0097
Phenanthrene	NE	NE	NA	<0.0128	<0.0128	0.0176 J	<0.0121	<0.0132	<0.0135
Pyrene	22,600	54.546	NA	<0.005	<0.005	0.0221	<0.0047	<0.0051	<0.0052
Total Metals									
Arsenic ⁽⁴⁾	3	0.584	8.3	2	1.2 J	3 J	1.6 J	1.6 J	1.2 J
Barium	100,000	164.8	364	5.8	3.7	13.4	4.8	4.3	4.1
Cadmium	985	0.752	1.07	<0.14	<0.15	0.16 J	<0.13	<0.15	<0.14
Chromium ⁽⁵⁾	100,000	360,000	43.5	3.2	1.9	10.2	2.5	2.7	2.5
Lead	800	27	51.6	0.94 J	<0.65	4.5	1.2 J	1.3 J	1.1 J
Mercury	3.13	0.208	NE	<0.011	<0.011	<0.0096	<0.011	<0.011	<0.011
Selenium	5,840	0.52	NE	<1.4	<1.4	<1.3	<1.3	<1.5	<1.4
Silver	5,840	0.8491	NE	<0.37	<0.37	<0.35	<0.34	<0.39	<0.37

NOTES:

All values in µg/kg (ppb).

BOLD = Identified Above Laboratory Reporting Limits.

BOLD = Concentration Exceeds Applicable RCL.

NE = RCL not established for pathway.

NA = Not Applicable.

ND = All VOC compounds below laboratory reporting limits.

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

Table 2
Groundwater Analytical Results - August 23, 2019

FedEx MNSR
Dane County Airport / Madison, WI

Parameters	Wisconsin Groundwater Objectives	SB-1	SB-2
	Enforcement Standards (µg/l)		
VOCs¹ (5035A/8260B)*			
Toluene	800	<0.17	0.37 J
Various VOCs	Various	ND	ND
PAHs (8270C)			
Acenaphthene	NE	0.0086 J	<0.0073
Acenaphthylene	NE	<0.0053	<0.006
Anthracene	3,000	<0.011	<0.013
Benzo(a)anthracene	NE	<0.008	0.013 J
Benzo(a)pyrene	0.2	<0.011	<0.013
Benzo(b)fluoranthene	0.2	<0.0061	0.014 J
Benzo(g,h,i)perylene	0.000	<0.0072	0.017 J
Benzo(k)fluoranthene	NE	<0.0080	<0.0091
Chrysene	0.2	<0.014	<0.016
Dibenzo(a,h)anthracene	NE	<0.011	<0.012
Fluoranthene	400	<0.011	0.027 J
Fluorene	400	<0.0085	<0.0096
Indeno(1,2,3-cd)pyrene	NE	<0.019	<0.021
1-Methylnaphthalene	NE	0.0097 J	0.028 J
2-Methylnaphthalene	NE	0.0087 J	0.034
Naphthalene	100	0.046 J	0.036 J
Phenanthrene	390 ⁽³⁾	<0.015	0.037 J
Pyrene	250	<0.0081	0.030 J
RCRA Metals (Total)¹			
Arsenic	10	17.5 J	444
Barium	2,000	126	2,200
Cadmium	5	<1.3	19.7 J
Chromium	100	42.1	2,590
Lead	15	11.2 J	541
Mercury	2	<0.084	0.49
Selenium	50	<12.2	104 J
Silver	50	<3.3	14.3
PFAS (ng/l)			
PFOA	NE	13	NA
PFOS	NE	38	NA

NOTES:

All values in µg/kg (ppb) with the exception of PFAS. PFAS values are in ng/kg (ppt).

¹ Concentration of RCRA Metals are "Total" and therefore due to turbidity of the groundwater grab sample, may not be indicative of actual groundwater quality.

BOLD = Identified Above Laboratory Reporting Limits.



BOLD = Concentration Exceeds Enforcement Standard.

NE = RCL not established for pathway.

ND = All VOC compounds below laboratory reporting limits.




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



APPENDIX A
SOIL BORING LOGS




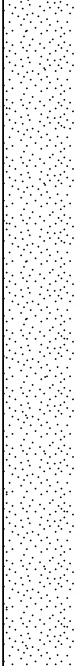
BORING NO.: SB-1		PROJECT NO.: CQ197011A			PROJECT NAME: Fedex Express - Dane County Airport								
SITE ID. NO.:		FEDERAL ID. NO.:			SITE LOCATION: Madison, WI								
COORDINATES:					LATITUDE: °		LONGITUDE: °						
DRILLING CO.: CS Drilling				QUAD.: De Forest		SEC.: 29		T.: T8N		R.: R10E		G.S. ELEVATION:	
DRILLER: M. Natali			DRILLING EQUIP.: Geoprobe 5410					BOREHOLE DIA.: 2 Inches					
START DATE: 8/23/2019				FINISH DATE: 8/23/2019				LOGGED BY: M. Lyter					
START TIME (hours): 0830				FINISH TIME (hours): 0850				CHECKED BY: J. Depa					
DEPTH (ft)	DESCRIPTION	GRAPHIC	ELEVATION	SAMPLES					PID (ppm)		REMARKS		
				NUMBER	RECOVERY (ft)	METHOD	MOISTURE	BLOW CNT (6")	SCAN	HEADSPACE			
0	TOPSOIL (0.0'-0.3') Brown, moist, roots, with fine gravel, with fine grained sand			A	3.6/4	HP	M	--	0.0	0.8	*Collected soil sample from 4.0'-5.0' for VOC, PNA, RCRA metals analyses		
2	FILL (0.3'-1.1') Gravel and Sand; Gray, moist, fine and coarse gravel, fine grained sand			B		HP	M	--	0.1	3.7			
4	SAND (1.1'-12.0') SP Brown, most, fine grained, loose			C	2.7/4	HP	M	--	0.0	7.5			
6	Grades saturated at 6.3'			D		HP	M/S	--	0.0	7.4			
8	Grades trace fine gravel at 7.1'			E	2.8/4	HP	S	--	0.0	4.0			
10				F		HP	S	--	0.0	5.8			
12	End of Boring at 12.0'										*Installed 1 Inch, 10 Foot screened PVC Temporary well inside boring *Collected groundwater grab sample for VOC, PNA, RCRA metals, PFAS analyses		
14													
16													
18													
20													

BORING NO.: SB-2		PROJECT NO.: CQ197011A			PROJECT NAME: Fedex Express - Dane County Airport						
SITE ID. NO.:		FEDERAL ID. NO.:			SITE LOCATION: Madison, WI						
COORDINATES:				LATITUDE: °		LONGITUDE: °					
DRILLING CO.: CS Drilling			QUAD.: De Forest		SEC.: 29		T.: T8N		R.: R10E		G.S. ELEVATION:
DRILLER: M. Natali		DRILLING EQUIP.: Geoprobe 5410				BOREHOLE DIA.: 2 Inches					
START DATE: 8/23/2019			FINISH DATE: 8/23/2019			LOGGED BY: M. Lyter					
START TIME (hours): 0920			FINISH TIME (hours): 0930			CHECKED BY: J. Depa					
DEPTH (ft)	DESCRIPTION	GRAPHIC	ELEVATION	SAMPLES					PID (ppm)		REMARKS
				NUMBER	RECOVERY (ft)	METHOD	MOISTURE	BLOW CNT (6")	SCAN	HEADSPACE	
0	FILL (0.0'-1.1') Gravel and Sand; Gray, moist, fine and coarse gravel, fine grained sand			A	3.5/4	HP	M	--	0.0	7.0	*Collected soil sample from 5.0'-6.0' for VOC, PNA, RCRA metals analyses *Installed 1 Inch, 10 Foot screened PVC Temporary well inside boring *Collected groundwater grab sample for VOC, PNA, RCRA metals analyses
2	SAND (1.1'-12.0') SP Tan, moist, fine grained, loose Grades dense at 2.0'			B		HP	M	--	0.1	5.9	
4				C	3/4	HP	M	--	0.1	5.0	
6	Grades saturated at 6.5'			D		HP	M/S	--	0.1	6.4	
8				E	3.2/4	HP	S	--	0.0	3.7	
10	Grades with medium grained sand at 9.0'			F		HP	S	--	0.0	5.1	
12	End of Boring at 12.0'										
14											
16											
18											
20											

BORING NO.: SB-3		PROJECT NO.: CQ197011A			PROJECT NAME: Fedex Express - Dane County Airport						
SITE ID. NO.:		FEDERAL ID. NO.:			SITE LOCATION: Madison, WI						
COORDINATES:				LATITUDE: °		LONGITUDE: °					
DRILLING CO.: CS Drilling			QUAD.: De Forest		SEC.: 29		T.: T8N		R.: R10E		G.S. ELEVATION:
DRILLER: M. Natali		DRILLING EQUIP.: Geoprobe 5410				BOREHOLE DIA.: 2 Inches					
START DATE: 8/23/2019			FINISH DATE: 8/23/2019			LOGGED BY: M. Lyter					
START TIME (hours): 1045			FINISH TIME (hours): 1100			CHECKED BY: J. Depa					
DEPTH (ft)	DESCRIPTION	GRAPHIC	ELEVATION	SAMPLES					PID (ppm)		REMARKS
				NUMBER	RECOVERY (ft)	METHOD	MOISTURE	BLOW CNT (6")	SCAN	HEADSPACE	
0	FILL (0.0'-0.3') Gravel and Sand; Gray, moist, fine and coarse gravel, fine grained sand	XXXX									
0	SAND (0.3'-5.1') SP Tan, moist, fine grained, loose	•••••		A	3.2/4	HP	M	--	0.0	4.6	*Collected soil sample from 4.0'-5.0' for VOC, PNA, RCRA metals analyses
2	Grades trace medium grained sand at 2.3'	•••••		B		HP	M	--	0.0	7.5	
4		•••••		C	3.3/4	HP	M/S	--	0.0	8.9	
4	SANDY GRAVEL (5.1'-5.5') GW Gray, saturated, fine gravel, fine grained sand	•••••									
6	SAND (5.5'-12.0') SW Tan, saturated, fine and medium grained sand, dense	•••••		D		HP	S	--	0.0	8.6	
6	Grades trace fine gravel, trace coarse grained sand at 6.9'	•••••		E	1/4	HP	S	--	0.0	8.6	
8	Grades to fine grained sand at 7.2'	•••••		F		HP	S	--	0.0	8.0	
12	End of Boring at 12.0'										
14											
16											
18											
20											

BORING NO.: SB-4		PROJECT NO.: CQ197011A			PROJECT NAME: Fedex Express - Dane County Airport						
SITE ID. NO.:		FEDERAL ID. NO.:			SITE LOCATION: Madison, WI						
COORDINATES:				LATITUDE: °		LONGITUDE: °					
DRILLING CO.: CS Drilling			QUAD.: De Forest		SEC.: 29		T.: T8N		R.: R10E		G.S. ELEVATION:
DRILLER: M. Natali		DRILLING EQUIP.: Geoprobe 5410				BOREHOLE DIA.: 2 Inches					
START DATE: 8/23/2019			FINISH DATE: 8/23/2019			LOGGED BY: M. Lyter		CHECKED BY: J. Depa			
START TIME (hours): 1110			FINISH TIME (hours): 1135								
DEPTH (ft)	DESCRIPTION	GRAPHIC	ELEVATION	SAMPLES					PID (ppm)		REMARKS
				NUMBER	RECOVERY (ft)	METHOD	MOISTURE	BLOW CNT (6")	SCAN	HEADSPACE	
0	CONCRETE (0.0'-0.9')										
	FILL (0.9'-1.4') Sand and Gravel; Gray, moist, loose			A	3.7/4	HP	M	--	0.0	4.7	*Collected soil sample from 1.5'-2.5' for VOC, PNA, RCRA metals analyses
2	SAND (1.4'-12.0') SP Tan, moist, fine grained sand, dense			B		HP	M/W /S	--	0.0	10.3	
	Grades wet to saturated at 2.9'										
4	Grades with medium grained sand at 4.8'			C	4/4	HP	W/S	--	0.0	10.7	
6	Grades grayish brown, saturated at 6.0'			D		HP	S	--	0.0	14.3	
8				E	3.3/4	HP	S	--	0.0	11.6	
10	Grades dark gray, with coarse grained sand, trace fine gravel at 9.3' Grades to fine grained sand at 9.7'			F		HP	S	--	0.0	7.4	
12	End of Boring at 12.0'										
14											
16											
18											
20											

BORING NO.: SB-5		PROJECT NO.: CQ197011A			PROJECT NAME: Fedex Express - Dane County Airport						
SITE ID. NO.:		FEDERAL ID. NO.:			SITE LOCATION: Madison, WI						
COORDINATES:				LATITUDE: °		LONGITUDE: °					
DRILLING CO.: CS Drilling			QUAD.: De Forest		SEC.: 29		T.: T8N		R.: R10E		G.S. ELEVATION:
DRILLER: M. Natali		DRILLING EQUIP.: Geoprobe 5410				BOREHOLE DIA.: 2 Inches					
START DATE: 8/23/2019			FINISH DATE: 8/23/2019			LOGGED BY: M. Lyter					
START TIME (hours): 1155			FINISH TIME (hours): 1205			CHECKED BY: J. Depa					
DEPTH (ft)	DESCRIPTION	GRAPHIC	ELEVATION	SAMPLES					PID (ppm)		REMARKS
				NUMBER	RECOVERY (ft)	METHOD	MOISTURE	BLOW CNT (6")	SCAN	HEADSPACE	
0	TOPSOIL (0.0'-0.2') Dark brown, moist, stiff, roots										
	SILTY CLAY (0.2'-3.2') CL Dark brown, moist, stiff, medium to low plasticity				A	3.4/4	HP	M	--	0.0	13.9
2	Grades dark brown with rust mottles, very stiff at 1.8'			B		HP	M	--	0.0	13.5	
4	SAND (3.2'-12.0') SP Dark brown, moist, fine grained, dense, trace clay			C	2.9/4	HP	M/S	--	0.0	13.8	*Collected soil sample from 4.0'-5.0' for VOC, PNA, RCRA metals analyses
6	Grades saturated at 5.9' Grades with trace medium grained sand, trace fine gravel at 6.3'			D		HP	S	--	0.0	15.2	
8				E	3.1/4	HP	S	--	0.0	12.7	
10				F		HP	S	--	0.0	9.2	
12	End of Boring at 12.0'										
14											
16											
18											
20											

BORING NO.: SB-6		PROJECT NO.: CQ197011A			PROJECT NAME: Fedex Express - Dane County Airport						
SITE ID. NO.:		FEDERAL ID. NO.:			SITE LOCATION: Madison, WI						
COORDINATES:				LATITUDE: °		LONGITUDE: °					
DRILLING CO.: CS Drilling			QUAD.: De Forest		SEC.: 29		T.: T8N		R.: R10E		G.S. ELEVATION:
DRILLER: M. Natali		DRILLING EQUIP.: Geoprobe 5410				BOREHOLE DIA.: 2 Inches					
START DATE: 8/23/2019			FINISH DATE: 8/23/2019			LOGGED BY: M. Lyter		CHECKED BY: J. Depa			
START TIME (hours): 1230			FINISH TIME (hours): 1240								
DEPTH (ft)	DESCRIPTION	GRAPHIC	ELEVATION	SAMPLES					PID (ppm)		REMARKS
				NUMBER	RECOVERY (ft)	METHOD	MOISTURE	BLOW CNT (6")	SCAN	HEADSPACE	
0	TOPSOIL (0.0'-0.2') Brown, moist, stiff, roots										
	FILL (0.2'-1.0') Gravel and Sand; Gray, fine and coarse gravel, fine grained sand, loose			A	2.7/4	HP	M	--	0.0	6.9	
2	SILTY CLAY (1.0'-1.7') CL Dark brown, moist, medium stiff, medium plasticity										
	SAND (1.7'-12.0') SW Brown, moist, fine to coarse grained sand, trace fine gravel			B		HP	M	--	0.0	6.8	
4	Grades to no gravel, fine grained sand at 5.3			C	3.1/4	HP	M/S	--	0.0	8.1	*Collected soil sample from 4.5'-5.5' for VOC, PNA, RCRA metals analyses
6	Grades saturated at 5.9'			D		HP	S	--	0.0	5.0	
	Grades some medium grained sand at 6.7'			E	2.9/4	HP	S	--	0.0	9.9	
	Grades to fine grained sand at 7.0'			F		HP	S	--	0.0	11.7	
12	End of Boring at 12.0'										
14											
16											
18											
20											

APPENDIX B

LABORATORY REPORT – SOIL AND GROUNDWATER ANALYTICAL RESULTS

September 04, 2019

Steve Swenson
St. John-Mittelhauser & Associates
1893 S. Trainer Road
Rockford, IL 61108

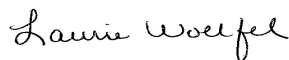
RE: Project: CQ197011A FEDEX-DANE CO AIRPT
Pace Project No.: 40193740

Dear Steve Swenson:

Enclosed are the analytical results for sample(s) received by the laboratory on August 27, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Laurie Woelfel
laurie.woelfel@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40193740001	SB-1(4-6FT)/082319	Solid	08/23/19 09:00	08/27/19 08:50
40193740002	SB-2(5-6FT)/082319	Solid	08/23/19 09:45	08/27/19 08:50
40193740003	SB-1/GW/082319	Water	08/23/19 10:00	08/27/19 08:50
40193740004	SB-2/GW/082319	Water	08/23/19 10:30	08/27/19 08:50
40193740005	SB-3(4-5FT)/082319	Solid	08/23/19 11:05	08/27/19 08:50
40193740006	SB-4(1.5-2.5FT)/082319	Solid	08/23/19 11:35	08/27/19 08:50
40193740007	SB-5(4-5FT)/082319	Solid	08/23/19 12:10	08/27/19 08:50
40193740008	SB-6(4.5-5.5FT)/082319	Solid	08/23/19 12:50	08/27/19 08:50
40193740009	TRIP BLANK	Water	08/23/19 00:00	08/27/19 08:50

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SAMPLE ANALYTE COUNT

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40193740001	SB-1(4-6FT)/082319	EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40193740002	SB-2(5-6FT)/082319	EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40193740003	SB-1/GW/082319	EPA 6010	TXW	7	PASI-G
		EPA 7470	AJT	1	PASI-G
		EPA 8270 by HVI	TPO	20	PASI-G
		EPA 8260	LAP	64	PASI-G
		EPA 6010	TXW	7	PASI-G
40193740004	SB-2/GW/082319	EPA 7470	AJT	1	PASI-G
		EPA 8270 by HVI	TPO	20	PASI-G
		EPA 8260	LAP	64	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
40193740005	SB-3(4-5FT)/082319	EPA 8270 by SIM	ARO	20	PASI-G
		EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	AH	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
40193740006	SB-4(1.5-2.5FT)/082319	EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	AH	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
40193740007	SB-5(4-5FT)/082319	EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	MDS	64	PASI-G
		ASTM D2974-87	AH	1	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
40193740008	SB-6(4.5-5.5FT)/082319	EPA 8270 by SIM	RJN	20	PASI-G
		EPA 8260	MDS	64	PASI-G
		EPA 6010	TXW	7	PASI-G
		EPA 7471	AJT	1	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D2974-87	AH	1	PASI-G
40193740009	TRIP BLANK	EPA 8260	LAP	64	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
40193740001	SB-1(4-6FT)/082319					
EPA 6010	Arsenic	2.0J	mg/kg	5.4	08/29/19 13:55	
EPA 6010	Barium	5.8	mg/kg	0.54	08/29/19 13:55	
EPA 6010	Chromium	3.2	mg/kg	1.1	08/29/19 13:55	
EPA 6010	Lead	0.94J	mg/kg	2.2	08/29/19 13:55	1q
ASTM D2974-87	Percent Moisture	9.4	%	0.10	09/03/19 19:22	
40193740002	SB-2(5-6FT)/082319					
EPA 6010	Arsenic	1.2J	mg/kg	5.4	08/29/19 13:57	
EPA 6010	Barium	3.7	mg/kg	0.54	08/29/19 13:57	
EPA 6010	Chromium	1.9	mg/kg	1.1	08/29/19 13:57	
ASTM D2974-87	Percent Moisture	9.1	%	0.10	09/03/19 19:41	
40193740003	SB-1/GW/082319					
EPA 6010	Arsenic	17.5J	ug/L	25.0	08/30/19 14:48	
EPA 6010	Barium	126	ug/L	5.0	08/30/19 14:48	
EPA 6010	Chromium	42.1	ug/L	10.0	08/30/19 14:48	
EPA 6010	Lead	11.2J	ug/L	19.7	08/30/19 14:48	
EPA 8270 by HVI	Acenaphthene	0.0086J	ug/L	0.032	08/30/19 10:39	
EPA 8270 by HVI	1-Methylnaphthalene	0.0097J	ug/L	0.031	08/30/19 10:39	
EPA 8270 by HVI	2-Methylnaphthalene	0.0087J	ug/L	0.026	08/30/19 10:39	
EPA 8270 by HVI	Naphthalene	0.046J	ug/L	0.097	08/30/19 10:39	
40193740004	SB-2/GW/082319					
EPA 6010	Silver	14.3	ug/L	10.0	08/30/19 14:50	
EPA 6010	Arsenic	444	ug/L	125	09/03/19 14:48	
EPA 6010	Barium	2200	ug/L	5.0	08/30/19 14:50	
EPA 6010	Cadmium	19.7J	ug/L	25.0	09/03/19 14:48	D3
EPA 6010	Chromium	2590	ug/L	50.0	09/03/19 14:48	
EPA 6010	Lead	541	ug/L	98.5	09/03/19 14:48	
EPA 6010	Selenium	104J	ug/L	204	09/03/19 14:48	D3
EPA 7470	Mercury	0.49	ug/L	0.28	09/04/19 09:24	
EPA 8270 by HVI	Benzo(a)anthracene	0.013J	ug/L	0.045	08/30/19 10:58	
EPA 8270 by HVI	Benzo(b)fluoranthene	0.014J	ug/L	0.035	08/30/19 10:58	B
EPA 8270 by HVI	Benzo(g,h,i)perylene	0.017J	ug/L	0.041	08/30/19 10:58	
EPA 8270 by HVI	Fluoranthene	0.027J	ug/L	0.064	08/30/19 10:58	
EPA 8270 by HVI	1-Methylnaphthalene	0.028J	ug/L	0.036	08/30/19 10:58	
EPA 8270 by HVI	2-Methylnaphthalene	0.034	ug/L	0.030	08/30/19 10:58	
EPA 8270 by HVI	Naphthalene	0.036J	ug/L	0.11	08/30/19 10:58	
EPA 8270 by HVI	Phenanthrene	0.037J	ug/L	0.083	08/30/19 10:58	
EPA 8270 by HVI	Pyrene	0.030J	ug/L	0.046	08/30/19 10:58	
EPA 8260	Toluene	0.37J	ug/L	5.0	08/28/19 17:00	
40193740005	SB-3(4-5FT)/082319					
EPA 6010	Arsenic	3.0J	mg/kg	5.0	08/29/19 14:05	
EPA 6010	Barium	13.4	mg/kg	0.50	08/29/19 14:05	
EPA 6010	Cadmium	0.16J	mg/kg	0.50	08/29/19 14:05	
EPA 6010	Chromium	10.2	mg/kg	1.0	08/29/19 14:05	
EPA 6010	Lead	4.5	mg/kg	2.0	08/29/19 14:05	1q
EPA 8270 by SIM	Benzo(a)anthracene	11.2	ug/kg	11.0	08/30/19 15:23	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40193740005	SB-3(4-5FT)/082319					
EPA 8270 by SIM	Benzo(a)pyrene	13.5	ug/kg	8.7	08/30/19 15:23	
EPA 8270 by SIM	Benzo(b)fluoranthene	17.9	ug/kg	9.8	08/30/19 15:23	
EPA 8270 by SIM	Benzo(g,h,i)perylene	14.0	ug/kg	7.0	08/30/19 15:23	
EPA 8270 by SIM	Benzo(k)fluoranthene	14.3	ug/kg	8.7	08/30/19 15:23	
EPA 8270 by SIM	Chrysene	18.4	ug/kg	11.6	08/30/19 15:23	
EPA 8270 by SIM	Dibenz(a,h)anthracene	4.0J	ug/kg	7.7	08/30/19 15:23	
EPA 8270 by SIM	Fluoranthene	33.6	ug/kg	18.1	08/30/19 15:23	
EPA 8270 by SIM	Indeno(1,2,3-cd)pyrene	10.6	ug/kg	7.6	08/30/19 15:23	
EPA 8270 by SIM	Phenanthrene	17.6J	ug/kg	40.3	08/30/19 15:23	
EPA 8270 by SIM	Pyrene	21.1	ug/kg	15.6	08/30/19 15:23	
ASTM D2974-87	Percent Moisture	3.8	%	0.10	09/03/19 19:41	
40193740006	SB-4(1.5-2.5FT)/082319					
EPA 6010	Arsenic	1.6J	mg/kg	4.9	08/29/19 14:07	
EPA 6010	Barium	4.8	mg/kg	0.49	08/29/19 14:07	
EPA 6010	Chromium	2.5	mg/kg	0.98	08/29/19 14:07	
EPA 6010	Lead	1.2J	mg/kg	2.0	08/29/19 14:07	1q
ASTM D2974-87	Percent Moisture	3.3	%	0.10	09/03/19 19:41	
40193740007	SB-5(4-5FT)/082319					
EPA 6010	Arsenic	1.6J	mg/kg	5.6	08/29/19 14:09	
EPA 6010	Barium	4.3	mg/kg	0.56	08/29/19 14:09	
EPA 6010	Chromium	2.7	mg/kg	1.1	08/29/19 14:09	
EPA 6010	Lead	1.3J	mg/kg	2.2	08/29/19 14:09	1q
ASTM D2974-87	Percent Moisture	11.8	%	0.10	09/03/19 19:41	
40193740008	SB-6(4.5-5.5FT)/082319					
EPA 6010	Arsenic	1.2J	mg/kg	5.4	08/29/19 14:12	
EPA 6010	Barium	4.1	mg/kg	0.54	08/29/19 14:12	
EPA 6010	Chromium	2.5	mg/kg	1.1	08/29/19 14:12	
EPA 6010	Lead	1.1J	mg/kg	2.2	08/29/19 14:12	1q
ASTM D2974-87	Percent Moisture	13.4	%	0.10	09/03/19 19:41	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

Sample: SB-1(4-6FT)/082319 Lab ID: 40193740001 Collected: 08/23/19 09:00 Received: 08/27/19 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	2.0J	mg/kg	5.4	1.1	1	08/28/19 08:49	08/29/19 13:55	7440-38-2	
Barium	5.8	mg/kg	0.54	0.16	1	08/28/19 08:49	08/29/19 13:55	7440-39-3	
Cadmium	<0.14	mg/kg	0.54	0.14	1	08/28/19 08:49	08/29/19 13:55	7440-43-9	
Chromium	3.2	mg/kg	1.1	0.30	1	08/28/19 08:49	08/29/19 13:55	7440-47-3	
Lead	0.94J	mg/kg	2.2	0.65	1	08/28/19 08:49	08/29/19 13:55	7439-92-1	1q
Selenium	<1.4	mg/kg	4.7	1.4	1	08/28/19 08:49	08/29/19 13:55	7782-49-2	
Silver	<0.37	mg/kg	1.1	0.37	1	08/28/19 08:49	08/29/19 13:55	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.011	mg/kg	0.038	0.011	1	08/29/19 09:24	08/30/19 08:02	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.3	ug/kg	14.2	4.3	1	08/29/19 09:05	08/29/19 19:38	83-32-9	
Acenaphthylene	<3.6	ug/kg	12.1	3.6	1	08/29/19 09:05	08/29/19 19:38	208-96-8	
Anthracene	<6.3	ug/kg	20.9	6.3	1	08/29/19 09:05	08/29/19 19:38	120-12-7	
Benzo(a)anthracene	<3.5	ug/kg	11.7	3.5	1	08/29/19 09:05	08/29/19 19:38	56-55-3	
Benzo(a)pyrene	<2.8	ug/kg	9.2	2.8	1	08/29/19 09:05	08/29/19 19:38	50-32-8	
Benzo(b)fluoranthene	<3.1	ug/kg	10.4	3.1	1	08/29/19 09:05	08/29/19 19:38	205-99-2	
Benzo(g,h,i)perylene	<2.2	ug/kg	7.5	2.2	1	08/29/19 09:05	08/29/19 19:38	191-24-2	
Benzo(k)fluoranthene	<2.8	ug/kg	9.2	2.8	1	08/29/19 09:05	08/29/19 19:38	207-08-9	
Chrysene	<3.7	ug/kg	12.3	3.7	1	08/29/19 09:05	08/29/19 19:38	218-01-9	
Dibenz(a,h)anthracene	<2.5	ug/kg	8.2	2.5	1	08/29/19 09:05	08/29/19 19:38	53-70-3	
Fluoranthene	<5.7	ug/kg	19.2	5.7	1	08/29/19 09:05	08/29/19 19:38	206-44-0	
Fluorene	<4.6	ug/kg	15.2	4.6	1	08/29/19 09:05	08/29/19 19:38	86-73-7	
Indeno(1,2,3-cd)pyrene	<2.4	ug/kg	8.1	2.4	1	08/29/19 09:05	08/29/19 19:38	193-39-5	
1-Methylnaphthalene	<4.4	ug/kg	14.8	4.4	1	08/29/19 09:05	08/29/19 19:38	90-12-0	
2-Methylnaphthalene	<5.5	ug/kg	18.4	5.5	1	08/29/19 09:05	08/29/19 19:38	91-57-6	
Naphthalene	<9.3	ug/kg	31.0	9.3	1	08/29/19 09:05	08/29/19 19:38	91-20-3	
Phenanthrene	<12.8	ug/kg	42.7	12.8	1	08/29/19 09:05	08/29/19 19:38	85-01-8	
Pyrene	<5.0	ug/kg	16.5	5.0	1	08/29/19 09:05	08/29/19 19:38	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	55	%	28-99		1	08/29/19 09:05	08/29/19 19:38	321-60-8	
Terphenyl-d14 (S)	67	%	10-107		1	08/29/19 09:05	08/29/19 19:38	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	71-55-6	W
1,1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	08/28/19 07:30	08/28/19 18:49	120-82-1	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

Sample: SB-1(4-6FT)/082319 Lab ID: 40193740001 Collected: 08/23/19 09:00 Received: 08/27/19 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	08/28/19 07:30	08/28/19 18:49	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	08/28/19 07:30	08/28/19 18:49	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	08/28/19 07:30	08/28/19 18:49	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	08/28/19 07:30	08/28/19 18:49	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	08/28/19 07:30	08/28/19 18:49	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	08/28/19 07:30	08/28/19 18:49	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	103-65-1	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

Sample: SB-1(4-6FT)/082319 **Lab ID: 40193740001** Collected: 08/23/19 09:00 Received: 08/27/19 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
o-Xylene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 18:49	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	99	%	57-146		1	08/28/19 07:30	08/28/19 18:49	1868-53-7	
Toluene-d8 (S)	99	%	64-134		1	08/28/19 07:30	08/28/19 18:49	2037-26-5	
4-Bromofluorobenzene (S)	88	%	54-126		1	08/28/19 07:30	08/28/19 18:49	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	9.4	%	0.10	0.10	1		09/03/19 19:22		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

Sample: SB-2(5-6FT)/082319 Lab ID: 40193740002 Collected: 08/23/19 09:45 Received: 08/27/19 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	1.2J	mg/kg	5.4	1.1	1	08/28/19 08:49	08/29/19 13:57	7440-38-2	
Barium	3.7	mg/kg	0.54	0.16	1	08/28/19 08:49	08/29/19 13:57	7440-39-3	
Cadmium	<0.14	mg/kg	0.54	0.14	1	08/28/19 08:49	08/29/19 13:57	7440-43-9	
Chromium	1.9	mg/kg	1.1	0.30	1	08/28/19 08:49	08/29/19 13:57	7440-47-3	
Lead	<0.65	mg/kg	2.2	0.65	1	08/28/19 08:49	08/29/19 13:57	7439-92-1	1q
Selenium	<1.4	mg/kg	4.7	1.4	1	08/28/19 08:49	08/29/19 13:57	7782-49-2	
Silver	<0.37	mg/kg	1.1	0.37	1	08/28/19 08:49	08/29/19 13:57	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.011	mg/kg	0.036	0.011	1	08/29/19 09:24	08/30/19 08:09	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.3	ug/kg	14.2	4.3	1	08/29/19 09:05	08/29/19 19:55	83-32-9	
Acenaphthylene	<3.6	ug/kg	12.1	3.6	1	08/29/19 09:05	08/29/19 19:55	208-96-8	
Anthracene	<6.3	ug/kg	20.9	6.3	1	08/29/19 09:05	08/29/19 19:55	120-12-7	
Benzo(a)anthracene	<3.5	ug/kg	11.7	3.5	1	08/29/19 09:05	08/29/19 19:55	56-55-3	
Benzo(a)pyrene	<2.8	ug/kg	9.2	2.8	1	08/29/19 09:05	08/29/19 19:55	50-32-8	
Benzo(b)fluoranthene	<3.1	ug/kg	10.4	3.1	1	08/29/19 09:05	08/29/19 19:55	205-99-2	
Benzo(g,h,i)perylene	<2.2	ug/kg	7.4	2.2	1	08/29/19 09:05	08/29/19 19:55	191-24-2	
Benzo(k)fluoranthene	<2.8	ug/kg	9.2	2.8	1	08/29/19 09:05	08/29/19 19:55	207-08-9	
Chrysene	<3.7	ug/kg	12.3	3.7	1	08/29/19 09:05	08/29/19 19:55	218-01-9	
Dibenz(a,h)anthracene	<2.5	ug/kg	8.2	2.5	1	08/29/19 09:05	08/29/19 19:55	53-70-3	
Fluoranthene	<5.7	ug/kg	19.1	5.7	1	08/29/19 09:05	08/29/19 19:55	206-44-0	
Fluorene	<4.6	ug/kg	15.2	4.6	1	08/29/19 09:05	08/29/19 19:55	86-73-7	
Indeno(1,2,3-cd)pyrene	<2.4	ug/kg	8.1	2.4	1	08/29/19 09:05	08/29/19 19:55	193-39-5	
1-Methylnaphthalene	<4.4	ug/kg	14.7	4.4	1	08/29/19 09:05	08/29/19 19:55	90-12-0	
2-Methylnaphthalene	<5.5	ug/kg	18.4	5.5	1	08/29/19 09:05	08/29/19 19:55	91-57-6	
Naphthalene	<9.3	ug/kg	30.9	9.3	1	08/29/19 09:05	08/29/19 19:55	91-20-3	
Phenanthrene	<12.8	ug/kg	42.7	12.8	1	08/29/19 09:05	08/29/19 19:55	85-01-8	
Pyrene	<5.0	ug/kg	16.5	5.0	1	08/29/19 09:05	08/29/19 19:55	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	72	%	28-99		1	08/29/19 09:05	08/29/19 19:55	321-60-8	
Terphenyl-d14 (S)	72	%	10-107		1	08/29/19 09:05	08/29/19 19:55	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	71-55-6	W
1,1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	08/28/19 07:30	08/28/19 19:35	120-82-1	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

Sample: SB-2(5-6FT)/082319 Lab ID: 40193740002 Collected: 08/23/19 09:45 Received: 08/27/19 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	08/28/19 07:30	08/28/19 19:35	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	08/28/19 07:30	08/28/19 19:35	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	08/28/19 07:30	08/28/19 19:35	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	08/28/19 07:30	08/28/19 19:35	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	08/28/19 07:30	08/28/19 19:35	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	08/28/19 07:30	08/28/19 19:35	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	103-65-1	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

Sample: SB-2(5-6FT)/082319 **Lab ID: 40193740002** Collected: 08/23/19 09:45 Received: 08/27/19 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
o-Xylene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:35	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	93	%	57-146		1	08/28/19 07:30	08/28/19 19:35	1868-53-7	
Toluene-d8 (S)	93	%	64-134		1	08/28/19 07:30	08/28/19 19:35	2037-26-5	
4-Bromofluorobenzene (S)	82	%	54-126		1	08/28/19 07:30	08/28/19 19:35	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	9.1	%	0.10	0.10	1		09/03/19 19:41		

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ANALYTICAL RESULTS

Project: CQ197011A FEDEX-DANE CO AIRPT
Pace Project No.: 40193740

Sample: SB-1/GW/082319 Lab ID: 40193740003 Collected: 08/23/19 10:00 Received: 08/27/19 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Silver	<3.3	ug/L	10.0	3.3	1	08/30/19 06:26	08/30/19 14:48	7440-22-4	
Arsenic	17.5J	ug/L	25.0	8.3	1	08/30/19 06:26	08/30/19 14:48	7440-38-2	
Barium	126	ug/L	5.0	1.5	1	08/30/19 06:26	08/30/19 14:48	7440-39-3	
Cadmium	<1.3	ug/L	5.0	1.3	1	08/30/19 06:26	08/30/19 14:48	7440-43-9	
Chromium	42.1	ug/L	10.0	2.5	1	08/30/19 06:26	08/30/19 14:48	7440-47-3	
Lead	11.2J	ug/L	19.7	5.9	1	08/30/19 06:26	08/30/19 14:48	7439-92-1	
Selenium	<12.2	ug/L	40.8	12.2	1	08/30/19 06:26	08/30/19 14:48	7782-49-2	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	<0.084	ug/L	0.28	0.084	1	09/03/19 10:05	09/04/19 09:22	7439-97-6	
8270 MSSV PAH by HVI									
Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	0.0086J	ug/L	0.032	0.0065	1	08/29/19 10:08	08/30/19 10:39	83-32-9	
Acenaphthylene	<0.0053	ug/L	0.026	0.0053	1	08/29/19 10:08	08/30/19 10:39	208-96-8	
Anthracene	<0.011	ug/L	0.056	0.011	1	08/29/19 10:08	08/30/19 10:39	120-12-7	
Benzo(a)anthracene	<0.0080	ug/L	0.040	0.0080	1	08/29/19 10:08	08/30/19 10:39	56-55-3	
Benzo(a)pyrene	<0.011	ug/L	0.056	0.011	1	08/29/19 10:08	08/30/19 10:39	50-32-8	
Benzo(b)fluoranthene	<0.0061	ug/L	0.031	0.0061	1	08/29/19 10:08	08/30/19 10:39	205-99-2	
Benzo(g,h,i)perylene	<0.0072	ug/L	0.036	0.0072	1	08/29/19 10:08	08/30/19 10:39	191-24-2	
Benzo(k)fluoranthene	<0.0080	ug/L	0.040	0.0080	1	08/29/19 10:08	08/30/19 10:39	207-08-9	
Chrysene	<0.014	ug/L	0.069	0.014	1	08/29/19 10:08	08/30/19 10:39	218-01-9	
Dibenz(a,h)anthracene	<0.011	ug/L	0.053	0.011	1	08/29/19 10:08	08/30/19 10:39	53-70-3	
Fluoranthene	<0.011	ug/L	0.057	0.011	1	08/29/19 10:08	08/30/19 10:39	206-44-0	
Fluorene	<0.0085	ug/L	0.042	0.0085	1	08/29/19 10:08	08/30/19 10:39	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.019	ug/L	0.094	0.019	1	08/29/19 10:08	08/30/19 10:39	193-39-5	
1-Methylnaphthalene	0.0097J	ug/L	0.031	0.0063	1	08/29/19 10:08	08/30/19 10:39	90-12-0	
2-Methylnaphthalene	0.0087J	ug/L	0.026	0.0052	1	08/29/19 10:08	08/30/19 10:39	91-57-6	
Naphthalene	0.046J	ug/L	0.097	0.020	1	08/29/19 10:08	08/30/19 10:39	91-20-3	
Phenanthrene	<0.015	ug/L	0.073	0.015	1	08/29/19 10:08	08/30/19 10:39	85-01-8	
Pyrene	<0.0081	ug/L	0.041	0.0081	1	08/29/19 10:08	08/30/19 10:39	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	47	%	30-85		1	08/29/19 10:08	08/30/19 10:39	321-60-8	
Terphenyl-d14 (S)	71	%	10-120		1	08/29/19 10:08	08/30/19 10:39	1718-51-0	
8260 MSV									
Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		08/28/19 16:37	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		08/28/19 16:37	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		08/28/19 16:37	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		08/28/19 16:37	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/28/19 16:37	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/28/19 16:37	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		08/28/19 16:37	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		08/28/19 16:37	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		08/28/19 16:37	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		08/28/19 16:37	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		08/28/19 16:37	95-63-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

Sample: **SB-1/GW/082319** Lab ID: **40193740003** Collected: 08/23/19 10:00 Received: 08/27/19 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		08/28/19 16:37	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		08/28/19 16:37	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		08/28/19 16:37	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		08/28/19 16:37	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		08/28/19 16:37	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		08/28/19 16:37	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		08/28/19 16:37	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		08/28/19 16:37	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		08/28/19 16:37	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		08/28/19 16:37	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		08/28/19 16:37	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		08/28/19 16:37	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		08/28/19 16:37	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		08/28/19 16:37	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		08/28/19 16:37	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		08/28/19 16:37	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		08/28/19 16:37	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		08/28/19 16:37	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		08/28/19 16:37	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		08/28/19 16:37	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		08/28/19 16:37	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		08/28/19 16:37	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		08/28/19 16:37	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		08/28/19 16:37	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		08/28/19 16:37	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		08/28/19 16:37	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		08/28/19 16:37	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		08/28/19 16:37	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		08/28/19 16:37	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		08/28/19 16:37	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		08/28/19 16:37	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		08/28/19 16:37	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		08/28/19 16:37	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		08/28/19 16:37	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		08/28/19 16:37	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		08/28/19 16:37	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		08/28/19 16:37	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		08/28/19 16:37	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/28/19 16:37	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		08/28/19 16:37	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		08/28/19 16:37	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		08/28/19 16:37	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		08/28/19 16:37	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		08/28/19 16:37	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		08/28/19 16:37	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		08/28/19 16:37	99-87-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

Sample: SB-1/GW/082319 **Lab ID: 40193740003** Collected: 08/23/19 10:00 Received: 08/27/19 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		08/28/19 16:37	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		08/28/19 16:37	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		08/28/19 16:37	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		08/28/19 16:37	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		08/28/19 16:37	460-00-4	HS
Dibromofluoromethane (S)	111	%	70-130		1		08/28/19 16:37	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		08/28/19 16:37	2037-26-5	

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ANALYTICAL RESULTS

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

Sample: SB-2/GW/082319 Lab ID: 40193740004 Collected: 08/23/19 10:30 Received: 08/27/19 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Silver	14.3	ug/L	10.0	3.3	1	08/30/19 06:26	08/30/19 14:50	7440-22-4	
Arsenic	444	ug/L	125	41.7	5	08/30/19 06:26	09/03/19 14:48	7440-38-2	
Barium	2200	ug/L	5.0	1.5	1	08/30/19 06:26	08/30/19 14:50	7440-39-3	
Cadmium	19.7J	ug/L	25.0	6.6	5	08/30/19 06:26	09/03/19 14:48	7440-43-9	D3
Chromium	2590	ug/L	50.0	12.7	5	08/30/19 06:26	09/03/19 14:48	7440-47-3	
Lead	541	ug/L	98.5	29.6	5	08/30/19 06:26	09/03/19 14:48	7439-92-1	
Selenium	104J	ug/L	204	61.2	5	08/30/19 06:26	09/03/19 14:48	7782-49-2	D3
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	0.49	ug/L	0.28	0.084	1	09/03/19 10:05	09/04/19 09:24	7439-97-6	
8270 MSSV PAH by HVI									
Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	<0.0073	ug/L	0.037	0.0073	1	08/29/19 10:08	08/30/19 10:58	83-32-9	
Acenaphthylene	<0.0060	ug/L	0.030	0.0060	1	08/29/19 10:08	08/30/19 10:58	208-96-8	
Anthracene	<0.013	ug/L	0.063	0.013	1	08/29/19 10:08	08/30/19 10:58	120-12-7	
Benzo(a)anthracene	0.013J	ug/L	0.045	0.0091	1	08/29/19 10:08	08/30/19 10:58	56-55-3	
Benzo(a)pyrene	<0.013	ug/L	0.063	0.013	1	08/29/19 10:08	08/30/19 10:58	50-32-8	
Benzo(b)fluoranthene	0.014J	ug/L	0.035	0.0069	1	08/29/19 10:08	08/30/19 10:58	205-99-2	B
Benzo(g,h,i)perylene	0.017J	ug/L	0.041	0.0082	1	08/29/19 10:08	08/30/19 10:58	191-24-2	
Benzo(k)fluoranthene	<0.0091	ug/L	0.045	0.0091	1	08/29/19 10:08	08/30/19 10:58	207-08-9	
Chrysene	<0.016	ug/L	0.079	0.016	1	08/29/19 10:08	08/30/19 10:58	218-01-9	
Dibenz(a,h)anthracene	<0.012	ug/L	0.060	0.012	1	08/29/19 10:08	08/30/19 10:58	53-70-3	
Fluoranthene	0.027J	ug/L	0.064	0.013	1	08/29/19 10:08	08/30/19 10:58	206-44-0	
Fluorene	<0.0096	ug/L	0.048	0.0096	1	08/29/19 10:08	08/30/19 10:58	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.021	ug/L	0.11	0.021	1	08/29/19 10:08	08/30/19 10:58	193-39-5	
1-Methylnaphthalene	0.028J	ug/L	0.036	0.0071	1	08/29/19 10:08	08/30/19 10:58	90-12-0	
2-Methylnaphthalene	0.034	ug/L	0.030	0.0059	1	08/29/19 10:08	08/30/19 10:58	91-57-6	
Naphthalene	0.036J	ug/L	0.11	0.022	1	08/29/19 10:08	08/30/19 10:58	91-20-3	
Phenanthrene	0.037J	ug/L	0.083	0.017	1	08/29/19 10:08	08/30/19 10:58	85-01-8	
Pyrene	0.030J	ug/L	0.046	0.0092	1	08/29/19 10:08	08/30/19 10:58	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	39	%	30-85		1	08/29/19 10:08	08/30/19 10:58	321-60-8	
Terphenyl-d14 (S)	35	%	10-120		1	08/29/19 10:08	08/30/19 10:58	1718-51-0	
8260 MSV									
Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		08/28/19 17:00	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		08/28/19 17:00	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		08/28/19 17:00	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		08/28/19 17:00	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/28/19 17:00	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/28/19 17:00	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		08/28/19 17:00	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		08/28/19 17:00	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		08/28/19 17:00	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		08/28/19 17:00	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		08/28/19 17:00	95-63-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

Sample: SB-2/GW/082319 **Lab ID: 40193740004** Collected: 08/23/19 10:30 Received: 08/27/19 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		08/28/19 17:00	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		08/28/19 17:00	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		08/28/19 17:00	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		08/28/19 17:00	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		08/28/19 17:00	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		08/28/19 17:00	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		08/28/19 17:00	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		08/28/19 17:00	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		08/28/19 17:00	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		08/28/19 17:00	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		08/28/19 17:00	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		08/28/19 17:00	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		08/28/19 17:00	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		08/28/19 17:00	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		08/28/19 17:00	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		08/28/19 17:00	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		08/28/19 17:00	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		08/28/19 17:00	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		08/28/19 17:00	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		08/28/19 17:00	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		08/28/19 17:00	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		08/28/19 17:00	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		08/28/19 17:00	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		08/28/19 17:00	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		08/28/19 17:00	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		08/28/19 17:00	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		08/28/19 17:00	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		08/28/19 17:00	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		08/28/19 17:00	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		08/28/19 17:00	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		08/28/19 17:00	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		08/28/19 17:00	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		08/28/19 17:00	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		08/28/19 17:00	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		08/28/19 17:00	127-18-4	
Toluene	0.37J	ug/L	5.0	0.17	1		08/28/19 17:00	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		08/28/19 17:00	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		08/28/19 17:00	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/28/19 17:00	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		08/28/19 17:00	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		08/28/19 17:00	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		08/28/19 17:00	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		08/28/19 17:00	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		08/28/19 17:00	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		08/28/19 17:00	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		08/28/19 17:00	99-87-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

Sample: SB-2/GW/082319 **Lab ID: 40193740004** Collected: 08/23/19 10:30 Received: 08/27/19 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		08/28/19 17:00	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		08/28/19 17:00	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		08/28/19 17:00	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		08/28/19 17:00	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		08/28/19 17:00	460-00-4	HS
Dibromofluoromethane (S)	110	%	70-130		1		08/28/19 17:00	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		08/28/19 17:00	2037-26-5	

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ANALYTICAL RESULTS

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

Sample: SB-3(4-5FT)/082319 Lab ID: 40193740005 Collected: 08/23/19 11:05 Received: 08/27/19 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	3.0J	mg/kg	5.0	1.1	1	08/28/19 08:49	08/29/19 14:05	7440-38-2	
Barium	13.4	mg/kg	0.50	0.15	1	08/28/19 08:49	08/29/19 14:05	7440-39-3	
Cadmium	0.16J	mg/kg	0.50	0.13	1	08/28/19 08:49	08/29/19 14:05	7440-43-9	
Chromium	10.2	mg/kg	1.0	0.28	1	08/28/19 08:49	08/29/19 14:05	7440-47-3	
Lead	4.5	mg/kg	2.0	0.60	1	08/28/19 08:49	08/29/19 14:05	7439-92-1	1q
Selenium	<1.3	mg/kg	4.4	1.3	1	08/28/19 08:49	08/29/19 14:05	7782-49-2	
Silver	<0.35	mg/kg	1.0	0.35	1	08/28/19 08:49	08/29/19 14:05	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.0096	mg/kg	0.032	0.0096	1	08/29/19 09:24	08/30/19 08:11	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.0	ug/kg	13.4	4.0	1	08/29/19 09:05	08/30/19 15:23	83-32-9	
Acenaphthylene	<3.4	ug/kg	11.4	3.4	1	08/29/19 09:05	08/30/19 15:23	208-96-8	
Anthracene	<5.9	ug/kg	19.7	5.9	1	08/29/19 09:05	08/30/19 15:23	120-12-7	
Benzo(a)anthracene	11.2	ug/kg	11.0	3.3	1	08/29/19 09:05	08/30/19 15:23	56-55-3	
Benzo(a)pyrene	13.5	ug/kg	8.7	2.6	1	08/29/19 09:05	08/30/19 15:23	50-32-8	
Benzo(b)fluoranthene	17.9	ug/kg	9.8	2.9	1	08/29/19 09:05	08/30/19 15:23	205-99-2	
Benzo(g,h,i)perylene	14.0	ug/kg	7.0	2.1	1	08/29/19 09:05	08/30/19 15:23	191-24-2	
Benzo(k)fluoranthene	14.3	ug/kg	8.7	2.6	1	08/29/19 09:05	08/30/19 15:23	207-08-9	
Chrysene	18.4	ug/kg	11.6	3.5	1	08/29/19 09:05	08/30/19 15:23	218-01-9	
Dibenz(a,h)anthracene	4.0J	ug/kg	7.7	2.3	1	08/29/19 09:05	08/30/19 15:23	53-70-3	
Fluoranthene	33.6	ug/kg	18.1	5.4	1	08/29/19 09:05	08/30/19 15:23	206-44-0	
Fluorene	<4.3	ug/kg	14.3	4.3	1	08/29/19 09:05	08/30/19 15:23	86-73-7	
Indeno(1,2,3-cd)pyrene	10.6	ug/kg	7.6	2.3	1	08/29/19 09:05	08/30/19 15:23	193-39-5	
1-Methylnaphthalene	<4.2	ug/kg	13.9	4.2	1	08/29/19 09:05	08/30/19 15:23	90-12-0	
2-Methylnaphthalene	<5.2	ug/kg	17.3	5.2	1	08/29/19 09:05	08/30/19 15:23	91-57-6	
Naphthalene	<8.7	ug/kg	29.2	8.7	1	08/29/19 09:05	08/30/19 15:23	91-20-3	
Phenanthrene	17.6J	ug/kg	40.3	12.1	1	08/29/19 09:05	08/30/19 15:23	85-01-8	
Pyrene	21.1	ug/kg	15.6	4.7	1	08/29/19 09:05	08/30/19 15:23	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	71	%	28-99		1	08/29/19 09:05	08/30/19 15:23	321-60-8	
Terphenyl-d14 (S)	61	%	10-107		1	08/29/19 09:05	08/30/19 15:23	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	71-55-6	W
1,1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	08/28/19 07:30	08/28/19 19:58	120-82-1	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

Sample: SB-3(4-5FT)/082319 **Lab ID: 40193740005** Collected: 08/23/19 11:05 Received: 08/27/19 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	08/28/19 07:30	08/28/19 19:58	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	08/28/19 07:30	08/28/19 19:58	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	08/28/19 07:30	08/28/19 19:58	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	08/28/19 07:30	08/28/19 19:58	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	08/28/19 07:30	08/28/19 19:58	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	08/28/19 07:30	08/28/19 19:58	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	103-65-1	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

Sample: SB-3(4-5FT)/082319 **Lab ID: 40193740005** Collected: 08/23/19 11:05 Received: 08/27/19 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
o-Xylene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 19:58	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	102	%	57-146		1	08/28/19 07:30	08/28/19 19:58	1868-53-7	
Toluene-d8 (S)	101	%	64-134		1	08/28/19 07:30	08/28/19 19:58	2037-26-5	
4-Bromofluorobenzene (S)	91	%	54-126		1	08/28/19 07:30	08/28/19 19:58	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	3.8	%	0.10	0.10	1		09/03/19 19:41		

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ANALYTICAL RESULTS

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

Sample: SB-4(1.5-2.5FT)/082319 **Lab ID: 40193740006** Collected: 08/23/19 11:35 Received: 08/27/19 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	1.6J	mg/kg	4.9	1.0	1	08/28/19 08:49	08/29/19 14:07	7440-38-2	
Barium	4.8	mg/kg	0.49	0.15	1	08/28/19 08:49	08/29/19 14:07	7440-39-3	
Cadmium	<0.13	mg/kg	0.49	0.13	1	08/28/19 08:49	08/29/19 14:07	7440-43-9	
Chromium	2.5	mg/kg	0.98	0.27	1	08/28/19 08:49	08/29/19 14:07	7440-47-3	
Lead	1.2J	mg/kg	2.0	0.59	1	08/28/19 08:49	08/29/19 14:07	7439-92-1	1q
Selenium	<1.3	mg/kg	4.3	1.3	1	08/28/19 08:49	08/29/19 14:07	7782-49-2	
Silver	<0.34	mg/kg	0.98	0.34	1	08/28/19 08:49	08/29/19 14:07	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.011	mg/kg	0.035	0.011	1	08/29/19 09:24	08/30/19 08:14	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.0	ug/kg	13.4	4.0	1	08/29/19 09:05	08/29/19 20:13	83-32-9	
Acenaphthylene	<3.4	ug/kg	11.4	3.4	1	08/29/19 09:05	08/29/19 20:13	208-96-8	
Anthracene	<5.9	ug/kg	19.7	5.9	1	08/29/19 09:05	08/29/19 20:13	120-12-7	
Benzo(a)anthracene	<3.3	ug/kg	11.0	3.3	1	08/29/19 09:05	08/29/19 20:13	56-55-3	
Benzo(a)pyrene	<2.6	ug/kg	8.7	2.6	1	08/29/19 09:05	08/29/19 20:13	50-32-8	
Benzo(b)fluoranthene	<2.9	ug/kg	9.8	2.9	1	08/29/19 09:05	08/29/19 20:13	205-99-2	
Benzo(g,h,i)perylene	<2.1	ug/kg	7.0	2.1	1	08/29/19 09:05	08/29/19 20:13	191-24-2	
Benzo(k)fluoranthene	<2.6	ug/kg	8.7	2.6	1	08/29/19 09:05	08/29/19 20:13	207-08-9	
Chrysene	<3.5	ug/kg	11.6	3.5	1	08/29/19 09:05	08/29/19 20:13	218-01-9	
Dibenz(a,h)anthracene	<2.3	ug/kg	7.7	2.3	1	08/29/19 09:05	08/29/19 20:13	53-70-3	
Fluoranthene	<5.4	ug/kg	18.0	5.4	1	08/29/19 09:05	08/29/19 20:13	206-44-0	
Fluorene	<4.3	ug/kg	14.3	4.3	1	08/29/19 09:05	08/29/19 20:13	86-73-7	
Indeno(1,2,3-cd)pyrene	<2.3	ug/kg	7.6	2.3	1	08/29/19 09:05	08/29/19 20:13	193-39-5	
1-Methylnaphthalene	<4.2	ug/kg	13.9	4.2	1	08/29/19 09:05	08/29/19 20:13	90-12-0	
2-Methylnaphthalene	<5.2	ug/kg	17.3	5.2	1	08/29/19 09:05	08/29/19 20:13	91-57-6	
Naphthalene	<8.7	ug/kg	29.1	8.7	1	08/29/19 09:05	08/29/19 20:13	91-20-3	
Phenanthrene	<12.1	ug/kg	40.2	12.1	1	08/29/19 09:05	08/29/19 20:13	85-01-8	
Pyrene	<4.7	ug/kg	15.5	4.7	1	08/29/19 09:05	08/29/19 20:13	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	65	%	28-99		1	08/29/19 09:05	08/29/19 20:13	321-60-8	
Terphenyl-d14 (S)	63	%	10-107		1	08/29/19 09:05	08/29/19 20:13	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	71-55-6	W
1,1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	08/28/19 07:30	08/28/19 20:22	120-82-1	W

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ANALYTICAL RESULTS

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

Sample: SB-4(1.5-2.5FT)/082319 **Lab ID: 40193740006** Collected: 08/23/19 11:35 Received: 08/27/19 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	08/28/19 07:30	08/28/19 20:22	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	08/28/19 07:30	08/28/19 20:22	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	08/28/19 07:30	08/28/19 20:22	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	08/28/19 07:30	08/28/19 20:22	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	08/28/19 07:30	08/28/19 20:22	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	08/28/19 07:30	08/28/19 20:22	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	103-65-1	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

Sample: SB-4(1.5-2.5FT)/082319 **Lab ID: 40193740006** Collected: 08/23/19 11:35 Received: 08/27/19 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
o-Xylene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:22	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	100	%	57-146		1	08/28/19 07:30	08/28/19 20:22	1868-53-7	
Toluene-d8 (S)	99	%	64-134		1	08/28/19 07:30	08/28/19 20:22	2037-26-5	
4-Bromofluorobenzene (S)	90	%	54-126		1	08/28/19 07:30	08/28/19 20:22	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	3.3	%	0.10	0.10	1		09/03/19 19:41		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

Sample: SB-5(4-5FT)/082319 **Lab ID: 40193740007** Collected: 08/23/19 12:10 Received: 08/27/19 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	1.6J	mg/kg	5.6	1.2	1	08/28/19 08:49	08/29/19 14:09	7440-38-2	
Barium	4.3	mg/kg	0.56	0.17	1	08/28/19 08:49	08/29/19 14:09	7440-39-3	
Cadmium	<0.15	mg/kg	0.56	0.15	1	08/28/19 08:49	08/29/19 14:09	7440-43-9	
Chromium	2.7	mg/kg	1.1	0.31	1	08/28/19 08:49	08/29/19 14:09	7440-47-3	
Lead	1.3J	mg/kg	2.2	0.67	1	08/28/19 08:49	08/29/19 14:09	7439-92-1	1q
Selenium	<1.5	mg/kg	4.9	1.5	1	08/28/19 08:49	08/29/19 14:09	7782-49-2	
Silver	<0.39	mg/kg	1.1	0.39	1	08/28/19 08:49	08/29/19 14:09	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.011	mg/kg	0.036	0.011	1	08/29/19 09:24	08/30/19 08:16	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.4	ug/kg	14.6	4.4	1	08/29/19 09:05	08/29/19 20:30	83-32-9	
Acenaphthylene	<3.7	ug/kg	12.5	3.7	1	08/29/19 09:05	08/29/19 20:30	208-96-8	
Anthracene	<6.5	ug/kg	21.5	6.5	1	08/29/19 09:05	08/29/19 20:30	120-12-7	
Benzo(a)anthracene	<3.6	ug/kg	12.0	3.6	1	08/29/19 09:05	08/29/19 20:30	56-55-3	
Benzo(a)pyrene	<2.8	ug/kg	9.5	2.8	1	08/29/19 09:05	08/29/19 20:30	50-32-8	
Benzo(b)fluoranthene	<3.2	ug/kg	10.7	3.2	1	08/29/19 09:05	08/29/19 20:30	205-99-2	
Benzo(g,h,i)perylene	<2.3	ug/kg	7.7	2.3	1	08/29/19 09:05	08/29/19 20:30	191-24-2	
Benzo(k)fluoranthene	<2.8	ug/kg	9.5	2.8	1	08/29/19 09:05	08/29/19 20:30	207-08-9	
Chrysene	<3.8	ug/kg	12.7	3.8	1	08/29/19 09:05	08/29/19 20:30	218-01-9	
Dibenz(a,h)anthracene	<2.5	ug/kg	8.4	2.5	1	08/29/19 09:05	08/29/19 20:30	53-70-3	
Fluoranthene	<5.9	ug/kg	19.7	5.9	1	08/29/19 09:05	08/29/19 20:30	206-44-0	
Fluorene	<4.7	ug/kg	15.6	4.7	1	08/29/19 09:05	08/29/19 20:30	86-73-7	
Indeno(1,2,3-cd)pyrene	<2.5	ug/kg	8.3	2.5	1	08/29/19 09:05	08/29/19 20:30	193-39-5	
1-Methylnaphthalene	<4.6	ug/kg	15.2	4.6	1	08/29/19 09:05	08/29/19 20:30	90-12-0	
2-Methylnaphthalene	<5.7	ug/kg	18.9	5.7	1	08/29/19 09:05	08/29/19 20:30	91-57-6	
Naphthalene	<9.5	ug/kg	31.9	9.5	1	08/29/19 09:05	08/29/19 20:30	91-20-3	
Phenanthrene	<13.2	ug/kg	44.0	13.2	1	08/29/19 09:05	08/29/19 20:30	85-01-8	
Pyrene	<5.1	ug/kg	17.0	5.1	1	08/29/19 09:05	08/29/19 20:30	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	79	%	28-99		1	08/29/19 09:05	08/29/19 20:30	321-60-8	
Terphenyl-d14 (S)	73	%	10-107		1	08/29/19 09:05	08/29/19 20:30	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	71-55-6	W
1,1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	08/28/19 07:30	08/28/19 20:45	120-82-1	W

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ANALYTICAL RESULTS

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

Sample: **SB-5(4-5FT)/082319** Lab ID: **40193740007** Collected: 08/23/19 12:10 Received: 08/27/19 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	08/28/19 07:30	08/28/19 20:45	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	08/28/19 07:30	08/28/19 20:45	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	08/28/19 07:30	08/28/19 20:45	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	08/28/19 07:30	08/28/19 20:45	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	08/28/19 07:30	08/28/19 20:45	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	08/28/19 07:30	08/28/19 20:45	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	103-65-1	W

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ANALYTICAL RESULTS

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

Sample: SB-5(4-5FT)/082319 **Lab ID: 40193740007** Collected: 08/23/19 12:10 Received: 08/27/19 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
o-Xylene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 20:45	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	94	%	57-146		1	08/28/19 07:30	08/28/19 20:45	1868-53-7	
Toluene-d8 (S)	94	%	64-134		1	08/28/19 07:30	08/28/19 20:45	2037-26-5	
4-Bromofluorobenzene (S)	82	%	54-126		1	08/28/19 07:30	08/28/19 20:45	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	11.8	%	0.10	0.10	1		09/03/19 19:41		

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ANALYTICAL RESULTS

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

Sample: **SB-6(4.5-5.5FT)/082319** Lab ID: **40193740008** Collected: 08/23/19 12:50 Received: 08/27/19 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Arsenic	1.2J	mg/kg	5.4	1.1	1	08/28/19 08:49	08/29/19 14:12	7440-38-2	
Barium	4.1	mg/kg	0.54	0.16	1	08/28/19 08:49	08/29/19 14:12	7440-39-3	
Cadmium	<0.14	mg/kg	0.54	0.14	1	08/28/19 08:49	08/29/19 14:12	7440-43-9	
Chromium	2.5	mg/kg	1.1	0.30	1	08/28/19 08:49	08/29/19 14:12	7440-47-3	
Lead	1.1J	mg/kg	2.2	0.65	1	08/28/19 08:49	08/29/19 14:12	7439-92-1	1q
Selenium	<1.4	mg/kg	4.8	1.4	1	08/28/19 08:49	08/29/19 14:12	7782-49-2	
Silver	<0.37	mg/kg	1.1	0.37	1	08/28/19 08:49	08/29/19 14:12	7440-22-4	
7471 Mercury									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.011	mg/kg	0.038	0.011	1	08/29/19 09:24	08/30/19 08:18	7439-97-6	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<4.5	ug/kg	14.9	4.5	1	08/29/19 09:05	08/29/19 20:47	83-32-9	
Acenaphthylene	<3.8	ug/kg	12.7	3.8	1	08/29/19 09:05	08/29/19 20:47	208-96-8	
Anthracene	<6.6	ug/kg	21.9	6.6	1	08/29/19 09:05	08/29/19 20:47	120-12-7	
Benzo(a)anthracene	<3.7	ug/kg	12.2	3.7	1	08/29/19 09:05	08/29/19 20:47	56-55-3	
Benzo(a)pyrene	<2.9	ug/kg	9.7	2.9	1	08/29/19 09:05	08/29/19 20:47	50-32-8	
Benzo(b)fluoranthene	<3.3	ug/kg	10.9	3.3	1	08/29/19 09:05	08/29/19 20:47	205-99-2	
Benzo(g,h,i)perylene	<2.3	ug/kg	7.8	2.3	1	08/29/19 09:05	08/29/19 20:47	191-24-2	
Benzo(k)fluoranthene	<2.9	ug/kg	9.7	2.9	1	08/29/19 09:05	08/29/19 20:47	207-08-9	
Chrysene	<3.9	ug/kg	12.9	3.9	1	08/29/19 09:05	08/29/19 20:47	218-01-9	
Dibenz(a,h)anthracene	<2.6	ug/kg	8.6	2.6	1	08/29/19 09:05	08/29/19 20:47	53-70-3	
Fluoranthene	<6.0	ug/kg	20.1	6.0	1	08/29/19 09:05	08/29/19 20:47	206-44-0	
Fluorene	<4.8	ug/kg	15.9	4.8	1	08/29/19 09:05	08/29/19 20:47	86-73-7	
Indeno(1,2,3-cd)pyrene	<2.5	ug/kg	8.5	2.5	1	08/29/19 09:05	08/29/19 20:47	193-39-5	
1-Methylnaphthalene	<4.6	ug/kg	15.5	4.6	1	08/29/19 09:05	08/29/19 20:47	90-12-0	
2-Methylnaphthalene	<5.8	ug/kg	19.3	5.8	1	08/29/19 09:05	08/29/19 20:47	91-57-6	
Naphthalene	<9.7	ug/kg	32.4	9.7	1	08/29/19 09:05	08/29/19 20:47	91-20-3	
Phenanthrene	<13.5	ug/kg	44.8	13.5	1	08/29/19 09:05	08/29/19 20:47	85-01-8	
Pyrene	<5.2	ug/kg	17.3	5.2	1	08/29/19 09:05	08/29/19 20:47	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	63	%	28-99		1	08/29/19 09:05	08/29/19 20:47	321-60-8	
Terphenyl-d14 (S)	65	%	10-107		1	08/29/19 09:05	08/29/19 20:47	1718-51-0	
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	71-55-6	W
1,1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	08/28/19 07:30	08/28/19 21:08	120-82-1	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

Sample: SB-6(4.5-5.5FT)/082319 **Lab ID: 40193740008** Collected: 08/23/19 12:50 Received: 08/27/19 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	08/28/19 07:30	08/28/19 21:08	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	08/28/19 07:30	08/28/19 21:08	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	08/28/19 07:30	08/28/19 21:08	75-00-3	W
Chloroform	<46.4	ug/kg	250	46.4	1	08/28/19 07:30	08/28/19 21:08	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	08/28/19 07:30	08/28/19 21:08	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	08/28/19 07:30	08/28/19 21:08	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	103-65-1	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

Sample: SB-6(4.5-5.5FT)/082319 **Lab ID: 40193740008** Collected: 08/23/19 12:50 Received: 08/27/19 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
o-Xylene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	08/28/19 07:30	08/28/19 21:08	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	92	%	57-146		1	08/28/19 07:30	08/28/19 21:08	1868-53-7	
Toluene-d8 (S)	92	%	64-134		1	08/28/19 07:30	08/28/19 21:08	2037-26-5	
4-Bromofluorobenzene (S)	85	%	54-126		1	08/28/19 07:30	08/28/19 21:08	460-00-4	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	13.4	%	0.10	0.10	1		09/03/19 19:41		

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ANALYTICAL RESULTS

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

Sample: TRIP BLANK **Lab ID: 40193740009** Collected: 08/23/19 00:00 Received: 08/27/19 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		08/28/19 13:23	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		08/28/19 13:23	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		08/28/19 13:23	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		08/28/19 13:23	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		08/28/19 13:23	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		08/28/19 13:23	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		08/28/19 13:23	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		08/28/19 13:23	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		08/28/19 13:23	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		08/28/19 13:23	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		08/28/19 13:23	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		08/28/19 13:23	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		08/28/19 13:23	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		08/28/19 13:23	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		08/28/19 13:23	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		08/28/19 13:23	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		08/28/19 13:23	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		08/28/19 13:23	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		08/28/19 13:23	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		08/28/19 13:23	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		08/28/19 13:23	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		08/28/19 13:23	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		08/28/19 13:23	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		08/28/19 13:23	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		08/28/19 13:23	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		08/28/19 13:23	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		08/28/19 13:23	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		08/28/19 13:23	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		08/28/19 13:23	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		08/28/19 13:23	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		08/28/19 13:23	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		08/28/19 13:23	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		08/28/19 13:23	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		08/28/19 13:23	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		08/28/19 13:23	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		08/28/19 13:23	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		08/28/19 13:23	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		08/28/19 13:23	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		08/28/19 13:23	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		08/28/19 13:23	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		08/28/19 13:23	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		08/28/19 13:23	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		08/28/19 13:23	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		08/28/19 13:23	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		08/28/19 13:23	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		08/28/19 13:23	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

Sample: TRIP BLANK **Lab ID: 40193740009** Collected: 08/23/19 00:00 Received: 08/27/19 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Toluene	<0.17	ug/L	5.0	0.17	1		08/28/19 13:23	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		08/28/19 13:23	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		08/28/19 13:23	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		08/28/19 13:23	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		08/28/19 13:23	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		08/28/19 13:23	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		08/28/19 13:23	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		08/28/19 13:23	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		08/28/19 13:23	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		08/28/19 13:23	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		08/28/19 13:23	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		08/28/19 13:23	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		08/28/19 13:23	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		08/28/19 13:23	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		08/28/19 13:23	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		08/28/19 13:23	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		08/28/19 13:23	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		08/28/19 13:23	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CQ197011A FEDEX-DANE CO AIRPT
Pace Project No.: 40193740

QC Batch: 332526 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 40193740003, 40193740004

METHOD BLANK: 1929939 Matrix: Water
Associated Lab Samples: 40193740003, 40193740004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.084	0.28	09/04/19 08:26	

LABORATORY CONTROL SAMPLE: 1929940

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1929941 1929942

Parameter	Units	40193959001		1929941		1929942		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.					
Mercury	ug/L	<0.084	5	5	5	5.1	5.0	101	100	85-115	1	20

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

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QUALITY CONTROL DATA

Project: CQ197011A FEDEX-DANE CO AIRPT
Pace Project No.: 40193740

QC Batch: 332208 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 40193740001, 40193740002, 40193740005, 40193740006, 40193740007, 40193740008

METHOD BLANK: 1927358 Matrix: Solid
Associated Lab Samples: 40193740001, 40193740002, 40193740005, 40193740006, 40193740007, 40193740008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.010	0.035	08/30/19 07:58	

LABORATORY CONTROL SAMPLE: 1927359

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.83	0.84	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1927360 1927361

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40193740001 Result	Spike Conc.	Spike Conc.	Conc.								
Mercury	mg/kg	<0.011	0.92	0.92	0.94	0.94	103	104	85-115	0	20		

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CQ197011A FEDEX-DANE CO AIRPT
Pace Project No.: 40193740

QC Batch: 332047 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 40193740001, 40193740002, 40193740005, 40193740006, 40193740007, 40193740008

METHOD BLANK: 1926292 Matrix: Solid
Associated Lab Samples: 40193740001, 40193740002, 40193740005, 40193740006, 40193740007, 40193740008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<1.0	5.0	08/29/19 13:28	
Barium	mg/kg	<0.15	0.50	08/29/19 13:28	
Cadmium	mg/kg	<0.13	0.50	08/29/19 13:28	
Chromium	mg/kg	<0.28	1.0	08/29/19 13:28	
Lead	mg/kg	<0.60	2.0	08/29/19 13:28	
Selenium	mg/kg	<1.3	4.4	08/29/19 13:28	
Silver	mg/kg	<0.34	1.0	08/29/19 13:28	

LABORATORY CONTROL SAMPLE: 1926293

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	45.6	91	80-120	
Barium	mg/kg	50	48.6	97	80-120	
Cadmium	mg/kg	50	46.8	94	80-120	
Chromium	mg/kg	50	51.9	104	80-120	
Lead	mg/kg	50	46.8	94	80-120	
Selenium	mg/kg	50	46.0	92	80-120	
Silver	mg/kg	25	26.7	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1926294 1926295

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40193739001 Result	Spike Conc.	Spike Conc.	Conc.							
Arsenic	mg/kg	3.3J	60.2	60.2	60.2	59.5	56.4	93	88	75-125	5	20
Barium	mg/kg	68.3	60.2	60.2	60.2	124	132	93	106	75-125	6	20
Cadmium	mg/kg	0.27J	60.2	60.2	60.2	55.2	54.7	91	90	75-125	1	20
Chromium	mg/kg	31.0	60.2	60.2	60.2	87.0	90.6	93	99	75-125	4	20
Lead	mg/kg	9.2	60.2	60.2	60.2	61.1	60.2	86	85	75-125	1	20
Selenium	mg/kg	1.8J	60.2	60.2	60.2	53.5	55.6	86	89	75-125	4	20
Silver	mg/kg	0.43J	30.1	30	30	32.0	31.3	105	103	75-125	2	20

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QUALITY CONTROL DATA

Project: CQ197011A FEDEX-DANE CO AIRPT
Pace Project No.: 40193740

QC Batch: 332325 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 40193740003, 40193740004

METHOD BLANK: 1928480 Matrix: Water
Associated Lab Samples: 40193740003, 40193740004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<8.3	25.0	08/30/19 14:33	
Barium	ug/L	<1.5	5.0	08/30/19 14:33	
Cadmium	ug/L	<1.3	5.0	08/30/19 14:33	
Chromium	ug/L	<2.5	10.0	08/30/19 14:33	
Lead	ug/L	<5.9	19.7	08/30/19 14:33	
Selenium	ug/L	<12.2	40.8	08/30/19 14:33	
Silver	ug/L	<3.3	10.0	08/30/19 14:33	

LABORATORY CONTROL SAMPLE: 1928481

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	470	94	80-120	
Barium	ug/L	500	498	100	80-120	
Cadmium	ug/L	500	486	97	80-120	
Chromium	ug/L	500	500	100	80-120	
Lead	ug/L	500	485	97	80-120	
Selenium	ug/L	500	484	97	80-120	
Silver	ug/L	250	250	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1928482 1928483

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10489351002 Result	Spike Conc.	Spike Conc.	Result						
Arsenic	ug/L	<8.3	500	500	485	498	97	99	75-125	3	20
Barium	ug/L	213	500	500	697	704	97	98	75-125	1	20
Cadmium	ug/L	<1.3	500	500	492	496	98	99	75-125	1	20
Chromium	ug/L	2.9J	500	500	502	501	100	100	75-125	0	20
Lead	ug/L	<5.9	500	500	491	499	98	99	75-125	2	20
Selenium	ug/L	<12.2	500	500	495	501	99	100	75-125	1	20
Silver	ug/L	<3.3	250	250	252	252	101	101	75-125	0	20

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QUALITY CONTROL DATA

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

QC Batch: 332099 Analysis Method: EPA 8260
 QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
 Associated Lab Samples: 40193740001, 40193740002, 40193740005, 40193740006, 40193740007, 40193740008

METHOD BLANK: 1926508 Matrix: Solid
 Associated Lab Samples: 40193740001, 40193740002, 40193740005, 40193740006, 40193740007, 40193740008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	08/28/19 16:53	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	08/28/19 16:53	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	08/28/19 16:53	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	08/28/19 16:53	
1,1-Dichloroethane	ug/kg	<17.6	50.0	08/28/19 16:53	
1,1-Dichloroethene	ug/kg	<17.6	50.0	08/28/19 16:53	
1,1-Dichloropropene	ug/kg	<14.0	50.0	08/28/19 16:53	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	08/28/19 16:53	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	08/28/19 16:53	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	08/28/19 16:53	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	08/28/19 16:53	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	08/28/19 16:53	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	08/28/19 16:53	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	08/28/19 16:53	
1,2-Dichloroethane	ug/kg	<15.0	50.0	08/28/19 16:53	
1,2-Dichloropropane	ug/kg	<16.8	50.0	08/28/19 16:53	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	08/28/19 16:53	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	08/28/19 16:53	
1,3-Dichloropropane	ug/kg	<12.0	50.0	08/28/19 16:53	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	08/28/19 16:53	
2,2-Dichloropropane	ug/kg	<12.6	50.0	08/28/19 16:53	
2-Chlorotoluene	ug/kg	<15.8	50.0	08/28/19 16:53	
4-Chlorotoluene	ug/kg	<13.0	50.0	08/28/19 16:53	
Benzene	ug/kg	<9.2	20.0	08/28/19 16:53	
Bromobenzene	ug/kg	<20.6	50.0	08/28/19 16:53	
Bromochloromethane	ug/kg	<21.4	50.0	08/28/19 16:53	
Bromodichloromethane	ug/kg	<9.8	50.0	08/28/19 16:53	
Bromoform	ug/kg	<19.8	50.0	08/28/19 16:53	
Bromomethane	ug/kg	<69.9	250	08/28/19 16:53	
Carbon tetrachloride	ug/kg	<12.1	50.0	08/28/19 16:53	
Chlorobenzene	ug/kg	<14.8	50.0	08/28/19 16:53	
Chloroethane	ug/kg	<67.0	250	08/28/19 16:53	
Chloroform	ug/kg	<46.4	250	08/28/19 16:53	
Chloromethane	ug/kg	<20.4	50.0	08/28/19 16:53	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	08/28/19 16:53	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	08/28/19 16:53	
Dibromochloromethane	ug/kg	<17.9	50.0	08/28/19 16:53	
Dibromomethane	ug/kg	<19.3	50.0	08/28/19 16:53	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	08/28/19 16:53	
Diisopropyl ether	ug/kg	<17.7	50.0	08/28/19 16:53	
Ethylbenzene	ug/kg	<12.4	50.0	08/28/19 16:53	

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QUALITY CONTROL DATA

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

METHOD BLANK: 1926508

Matrix: Solid

Associated Lab Samples: 40193740001, 40193740002, 40193740005, 40193740006, 40193740007, 40193740008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	08/28/19 16:53	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	08/28/19 16:53	
m&p-Xylene	ug/kg	<34.4	100	08/28/19 16:53	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	08/28/19 16:53	
Methylene Chloride	ug/kg	<16.2	50.0	08/28/19 16:53	
n-Butylbenzene	ug/kg	<10.5	50.0	08/28/19 16:53	
n-Propylbenzene	ug/kg	<11.6	50.0	08/28/19 16:53	
Naphthalene	ug/kg	<40.0	250	08/28/19 16:53	
o-Xylene	ug/kg	<14.0	50.0	08/28/19 16:53	
p-Isopropyltoluene	ug/kg	<12.0	50.0	08/28/19 16:53	
sec-Butylbenzene	ug/kg	<11.9	50.0	08/28/19 16:53	
Styrene	ug/kg	<9.0	50.0	08/28/19 16:53	
tert-Butylbenzene	ug/kg	<9.5	50.0	08/28/19 16:53	
Tetrachloroethene	ug/kg	<12.9	50.0	08/28/19 16:53	
Toluene	ug/kg	<11.2	50.0	08/28/19 16:53	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	08/28/19 16:53	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	08/28/19 16:53	
Trichloroethene	ug/kg	<23.6	50.0	08/28/19 16:53	
Trichlorofluoromethane	ug/kg	<24.7	50.0	08/28/19 16:53	
Vinyl chloride	ug/kg	<21.1	50.0	08/28/19 16:53	
4-Bromofluorobenzene (S)	%	103	54-126	08/28/19 16:53	
Dibromofluoromethane (S)	%	112	57-146	08/28/19 16:53	
Toluene-d8 (S)	%	112	64-134	08/28/19 16:53	

LABORATORY CONTROL SAMPLE: 1926509

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2940	118	70-132	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2920	117	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2780	111	70-130	
1,1-Dichloroethane	ug/kg	2500	3050	122	70-130	
1,1-Dichloroethene	ug/kg	2500	2730	109	77-126	
1,2,4-Trichlorobenzene	ug/kg	2500	2460	98	66-130	
1,2-Dibromo-3-chloropropane	ug/kg	2500	2650	106	54-129	
1,2-Dibromoethane (EDB)	ug/kg	2500	2670	107	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2860	114	70-130	
1,2-Dichloroethane	ug/kg	2500	2960	118	70-134	
1,2-Dichloropropane	ug/kg	2500	2690	108	74-124	
1,3-Dichlorobenzene	ug/kg	2500	2680	107	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2740	109	70-130	
Benzene	ug/kg	2500	2750	110	70-130	
Bromodichloromethane	ug/kg	2500	2670	107	70-130	
Bromoform	ug/kg	2500	2470	99	47-115	
Bromomethane	ug/kg	2500	2340	93	64-165	

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QUALITY CONTROL DATA

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

LABORATORY CONTROL SAMPLE: 1926509

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/kg	2500	2860	114	70-131	
Chlorobenzene	ug/kg	2500	2560	102	70-130	
Chloroethane	ug/kg	2500	2590	104	28-197	
Chloroform	ug/kg	2500	2820	113	80-131	
Chloromethane	ug/kg	2500	1960	78	45-118	
cis-1,2-Dichloroethene	ug/kg	2500	2780	111	70-130	
cis-1,3-Dichloropropene	ug/kg	2500	2490	99	70-130	
Dibromochloromethane	ug/kg	2500	2620	105	70-130	
Dichlorodifluoromethane	ug/kg	2500	1170	47	38-108	
Ethylbenzene	ug/kg	2500	2640	106	82-122	
Isopropylbenzene (Cumene)	ug/kg	2500	2740	109	70-130	
m&p-Xylene	ug/kg	5000	5550	111	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2890	115	70-130	
Methylene Chloride	ug/kg	2500	2740	109	70-130	
o-Xylene	ug/kg	2500	2750	110	70-130	
Styrene	ug/kg	2500	2660	106	70-130	
Tetrachloroethene	ug/kg	2500	2600	104	70-130	
Toluene	ug/kg	2500	2700	108	80-121	
trans-1,2-Dichloroethene	ug/kg	2500	2940	118	70-130	
trans-1,3-Dichloropropene	ug/kg	2500	2630	105	70-130	
Trichloroethene	ug/kg	2500	2630	105	70-130	
Trichlorofluoromethane	ug/kg	2500	2510	100	81-141	
Vinyl chloride	ug/kg	2500	2140	85	68-121	
4-Bromofluorobenzene (S)	%			111	54-126	
Dibromofluoromethane (S)	%			117	57-146	
Toluene-d8 (S)	%			112	64-134	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1926510 1926511

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40193798017 Result	Spike Conc.	Spike Conc.	Result								
1,1,1-Trichloroethane	ug/kg	<25.0	1250	1250	1320	1300	106	104	64-132	2	20		
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1250	1250	1540	1350	123	108	70-132	14	20		
1,1,2-Trichloroethane	ug/kg	<25.0	1250	1250	1430	1360	114	109	70-130	5	20		
1,1-Dichloroethane	ug/kg	<25.0	1250	1250	1420	1420	114	114	70-130	0	20		
1,1-Dichloroethene	ug/kg	<25.0	1250	1250	1270	1200	101	96	65-126	6	21		
1,2,4-Trichlorobenzene	ug/kg	<47.6	1250	1250	1520	1280	121	102	66-139	17	20		
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1250	1250	1390	1310	111	104	47-146	6	23		
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1250	1250	1330	1220	107	97	70-130	9	20		
1,2-Dichlorobenzene	ug/kg	<25.0	1250	1250	1500	1360	120	109	70-130	10	20		
1,2-Dichloroethane	ug/kg	<25.0	1250	1250	1470	1420	118	113	70-136	4	20		
1,2-Dichloropropane	ug/kg	<25.0	1250	1250	1340	1320	107	106	74-124	2	20		
1,3-Dichlorobenzene	ug/kg	<25.0	1250	1250	1390	1250	111	100	70-130	11	20		
1,4-Dichlorobenzene	ug/kg	<25.0	1250	1250	1440	1260	115	101	70-130	13	20		

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QUALITY CONTROL DATA

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

Parameter	Units	1926510		1926511		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40193798017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Benzene	ug/kg	<25.0	1250	1250	1330	1260	106	101	70-130	6	20
Bromodichloromethane	ug/kg	<25.0	1250	1250	1270	1290	102	103	70-130	1	20
Bromoform	ug/kg	<25.0	1250	1250	1210	1160	97	93	47-129	4	20
Bromomethane	ug/kg	<69.9	1250	1250	1240	1210	99	97	41-180	2	20
Carbon tetrachloride	ug/kg	<25.0	1250	1250	1290	1220	103	98	58-133	5	20
Chlorobenzene	ug/kg	<25.0	1250	1250	1310	1230	104	99	70-130	6	20
Chloroethane	ug/kg	<67.0	1250	1250	1300	1260	104	101	28-197	3	20
Chloroform	ug/kg	<46.4	1250	1250	1360	1300	109	104	80-131	5	20
Chloromethane	ug/kg	<25.0	1250	1250	928	914	74	73	26-118	2	20
cis-1,2-Dichloroethene	ug/kg	<25.0	1250	1250	1310	1250	105	100	70-130	5	20
cis-1,3-Dichloropropene	ug/kg	<25.0	1250	1250	1190	1160	95	93	70-130	3	20
Dibromochloromethane	ug/kg	<25.0	1250	1250	1280	1250	102	100	67-130	2	20
Dichlorodifluoromethane	ug/kg	<25.0	1250	1250	569	547	46	44	12-108	4	29
Ethylbenzene	ug/kg	<25.0	1250	1250	1280	1220	102	98	80-122	5	20
Isopropylbenzene (Cumene)	ug/kg	<25.0	1250	1250	1300	1260	104	101	70-130	3	20
m&p-Xylene	ug/kg	<50.0	2500	2500	2650	2560	106	102	70-130	3	20
Methyl-tert-butyl ether	ug/kg	<25.0	1250	1250	1440	1390	115	111	70-130	3	20
Methylene Chloride	ug/kg	<25.0	1250	1250	1360	1300	109	104	70-130	5	20
o-Xylene	ug/kg	<25.0	1250	1250	1360	1280	109	103	70-130	6	20
Styrene	ug/kg	<25.0	1250	1250	1280	1250	103	100	70-130	3	20
Tetrachloroethene	ug/kg	<25.0	1250	1250	1250	1180	100	94	70-130	6	20
Toluene	ug/kg	<25.0	1250	1250	1360	1240	109	99	80-121	9	20
trans-1,2-Dichloroethene	ug/kg	<25.0	1250	1250	1400	1390	112	111	70-130	1	20
trans-1,3-Dichloropropene	ug/kg	<25.0	1250	1250	1330	1230	107	98	70-130	8	20
Trichloroethene	ug/kg	<25.0	1250	1250	1300	1260	104	101	70-130	3	20
Trichlorofluoromethane	ug/kg	<25.0	1250	1250	1220	1230	98	98	60-141	0	26
Vinyl chloride	ug/kg	<25.0	1250	1250	1010	983	81	79	46-121	2	20
4-Bromofluorobenzene (S)	%						113	110	54-126		
Dibromofluoromethane (S)	%						120	114	57-146		
Toluene-d8 (S)	%						114	107	64-134		

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QUALITY CONTROL DATA

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

QC Batch: 332051 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40193740003, 40193740004, 40193740009

METHOD BLANK: 1926302 Matrix: Water

Associated Lab Samples: 40193740003, 40193740004, 40193740009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	08/28/19 09:02	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	08/28/19 09:02	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	08/28/19 09:02	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	08/28/19 09:02	
1,1-Dichloroethane	ug/L	<0.27	1.0	08/28/19 09:02	
1,1-Dichloroethene	ug/L	<0.24	1.0	08/28/19 09:02	
1,1-Dichloropropene	ug/L	<0.54	1.8	08/28/19 09:02	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	08/28/19 09:02	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	08/28/19 09:02	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	08/28/19 09:02	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	08/28/19 09:02	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	08/28/19 09:02	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	08/28/19 09:02	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	08/28/19 09:02	
1,2-Dichloroethane	ug/L	<0.28	1.0	08/28/19 09:02	
1,2-Dichloropropane	ug/L	<0.28	1.0	08/28/19 09:02	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	08/28/19 09:02	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	08/28/19 09:02	
1,3-Dichloropropane	ug/L	<0.83	2.8	08/28/19 09:02	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	08/28/19 09:02	
2,2-Dichloropropane	ug/L	<2.3	7.6	08/28/19 09:02	
2-Chlorotoluene	ug/L	<0.93	5.0	08/28/19 09:02	
4-Chlorotoluene	ug/L	<0.76	2.5	08/28/19 09:02	
Benzene	ug/L	<0.25	1.0	08/28/19 09:02	
Bromobenzene	ug/L	<0.24	1.0	08/28/19 09:02	
Bromochloromethane	ug/L	<0.36	5.0	08/28/19 09:02	
Bromodichloromethane	ug/L	<0.36	1.2	08/28/19 09:02	
Bromoform	ug/L	<4.0	13.2	08/28/19 09:02	
Bromomethane	ug/L	<0.97	5.0	08/28/19 09:02	
Carbon tetrachloride	ug/L	<0.17	1.0	08/28/19 09:02	
Chlorobenzene	ug/L	<0.71	2.4	08/28/19 09:02	
Chloroethane	ug/L	<1.3	5.0	08/28/19 09:02	
Chloroform	ug/L	<1.3	5.0	08/28/19 09:02	
Chloromethane	ug/L	<2.2	7.3	08/28/19 09:02	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	08/28/19 09:02	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	08/28/19 09:02	
Dibromochloromethane	ug/L	<2.6	8.7	08/28/19 09:02	
Dibromomethane	ug/L	<0.94	3.1	08/28/19 09:02	
Dichlorodifluoromethane	ug/L	<0.50	5.0	08/28/19 09:02	
Diisopropyl ether	ug/L	<1.9	6.3	08/28/19 09:02	
Ethylbenzene	ug/L	<0.22	1.0	08/28/19 09:02	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

METHOD BLANK: 1926302

Matrix: Water

Associated Lab Samples: 40193740003, 40193740004, 40193740009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	08/28/19 09:02	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	08/28/19 09:02	
m&p-Xylene	ug/L	<0.47	2.0	08/28/19 09:02	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	08/28/19 09:02	
Methylene Chloride	ug/L	<0.58	5.0	08/28/19 09:02	
n-Butylbenzene	ug/L	<0.71	2.4	08/28/19 09:02	
n-Propylbenzene	ug/L	<0.81	5.0	08/28/19 09:02	
Naphthalene	ug/L	<1.2	5.0	08/28/19 09:02	
o-Xylene	ug/L	<0.26	1.0	08/28/19 09:02	
p-Isopropyltoluene	ug/L	<0.80	2.7	08/28/19 09:02	
sec-Butylbenzene	ug/L	<0.85	5.0	08/28/19 09:02	
Styrene	ug/L	<0.47	1.6	08/28/19 09:02	
tert-Butylbenzene	ug/L	<0.30	1.0	08/28/19 09:02	
Tetrachloroethene	ug/L	<0.33	1.1	08/28/19 09:02	
Toluene	ug/L	<0.17	5.0	08/28/19 09:02	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	08/28/19 09:02	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	08/28/19 09:02	
Trichloroethene	ug/L	<0.26	1.0	08/28/19 09:02	
Trichlorofluoromethane	ug/L	<0.21	1.0	08/28/19 09:02	
Vinyl chloride	ug/L	<0.17	1.0	08/28/19 09:02	
4-Bromofluorobenzene (S)	%	93	70-130	08/28/19 09:02	
Dibromofluoromethane (S)	%	103	70-130	08/28/19 09:02	
Toluene-d8 (S)	%	100	70-130	08/28/19 09:02	

LABORATORY CONTROL SAMPLE: 1926303

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	59.0	118	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	56.9	114	70-130	
1,1,2-Trichloroethane	ug/L	50	51.3	103	70-130	
1,1-Dichloroethane	ug/L	50	58.1	116	73-150	
1,1-Dichloroethene	ug/L	50	56.3	113	73-138	
1,2,4-Trichlorobenzene	ug/L	50	51.1	102	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	54.9	110	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	48.6	97	70-130	
1,2-Dichlorobenzene	ug/L	50	52.7	105	70-130	
1,2-Dichloroethane	ug/L	50	53.6	107	75-140	
1,2-Dichloropropane	ug/L	50	54.4	109	73-135	
1,3-Dichlorobenzene	ug/L	50	50.3	101	70-130	
1,4-Dichlorobenzene	ug/L	50	50.5	101	70-130	
Benzene	ug/L	50	53.2	106	70-130	
Bromodichloromethane	ug/L	50	55.0	110	70-130	
Bromoform	ug/L	50	47.0	94	68-129	
Bromomethane	ug/L	50	31.9	64	18-159	

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QUALITY CONTROL DATA

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

LABORATORY CONTROL SAMPLE: 1926303

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	54.1	108	70-130	
Chlorobenzene	ug/L	50	50.6	101	70-130	
Chloroethane	ug/L	50	49.5	99	53-147	
Chloroform	ug/L	50	53.2	106	74-136	
Chloromethane	ug/L	50	41.0	82	29-115	
cis-1,2-Dichloroethene	ug/L	50	51.5	103	70-130	
cis-1,3-Dichloropropene	ug/L	50	53.3	107	70-130	
Dibromochloromethane	ug/L	50	50.0	100	70-130	
Dichlorodifluoromethane	ug/L	50	34.9	70	10-130	
Ethylbenzene	ug/L	50	55.8	112	80-124	
Isopropylbenzene (Cumene)	ug/L	50	53.2	106	70-130	
m&p-Xylene	ug/L	100	112	112	70-130	
Methyl-tert-butyl ether	ug/L	50	49.9	100	54-137	
Methylene Chloride	ug/L	50	54.5	109	73-138	
o-Xylene	ug/L	50	56.4	113	70-130	
Styrene	ug/L	50	54.6	109	70-130	
Tetrachloroethene	ug/L	50	52.9	106	70-130	
Toluene	ug/L	50	53.2	106	80-126	
trans-1,2-Dichloroethene	ug/L	50	61.4	123	73-145	
trans-1,3-Dichloropropene	ug/L	50	51.5	103	70-130	
Trichloroethene	ug/L	50	56.4	113	70-130	
Trichlorofluoromethane	ug/L	50	58.2	116	76-147	
Vinyl chloride	ug/L	50	46.8	94	51-120	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			95	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1927094 1927095

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40193764002	Result	Spike Conc.	Spike Conc.								
1,1,1-Trichloroethane	ug/L	<0.24	50	50	60.0	54.0	120	108	70-130	11	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	54.7	56.8	109	114	70-130	4	20		
1,1,2-Trichloroethane	ug/L	<0.55	50	50	53.1	50.9	106	102	70-137	4	20		
1,1-Dichloroethane	ug/L	<0.27	50	50	61.1	55.9	122	112	73-153	9	20		
1,1-Dichloroethene	ug/L	<0.24	50	50	60.7	56.2	121	112	73-138	8	20		
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	49.4	47.9	99	96	70-130	3	20		
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	52.9	54.1	106	108	58-129	2	20		
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	48.4	46.0	97	92	70-130	5	20		
1,2-Dichlorobenzene	ug/L	<0.71	50	50	52.8	53.8	106	108	70-130	2	20		
1,2-Dichloroethane	ug/L	<0.28	50	50	57.6	53.6	115	107	75-140	7	20		
1,2-Dichloropropane	ug/L	<0.28	50	50	51.7	54.1	103	108	71-138	5	20		
1,3-Dichlorobenzene	ug/L	<0.63	50	50	49.1	48.6	98	97	70-130	1	20		
1,4-Dichlorobenzene	ug/L	<0.94	50	50	51.7	51.1	103	102	70-130	1	20		

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QUALITY CONTROL DATA

Project: CQ197011A FEDEX-DANE CO AIRPT
Pace Project No.: 40193740

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1927094		1927095		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40193764002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Benzene	ug/L	<0.25	50	50	56.1	50.6	112	101	70-130	10	20		
Bromodichloromethane	ug/L	<0.36	50	50	50.8	52.7	102	105	70-130	4	20		
Bromoform	ug/L	<4.0	50	50	45.5	44.0	91	88	68-129	3	20		
Bromomethane	ug/L	<0.97	50	50	39.2	40.6	78	81	15-170	3	20		
Carbon tetrachloride	ug/L	<0.17	50	50	57.2	53.0	114	106	70-130	8	20		
Chlorobenzene	ug/L	<0.71	50	50	50.7	49.1	101	98	70-130	3	20		
Chloroethane	ug/L	<1.3	50	50	54.1	45.7	108	91	51-148	17	20		
Chloroform	ug/L	<1.3	50	50	54.8	50.9	110	102	74-136	7	20		
Chloromethane	ug/L	<2.2	50	50	42.5	38.0	85	76	23-115	11	20		
cis-1,2-Dichloroethene	ug/L	6.9	50	50	59.2	55.8	105	98	70-131	6	20		
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	49.4	53.2	99	106	70-130	7	20		
Dibromochloromethane	ug/L	<2.6	50	50	48.3	46.1	97	92	70-130	5	20		
Dichlorodifluoromethane	ug/L	<0.50	50	50	38.2	35.4	76	71	10-132	8	20		
Ethylbenzene	ug/L	<0.22	50	50	55.5	52.6	111	105	80-125	5	20		
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	51.8	49.6	104	99	70-130	4	20		
m&p-Xylene	ug/L	<0.47	100	100	107	103	107	103	70-130	4	20		
Methyl-tert-butyl ether	ug/L	<1.2	50	50	53.3	49.0	107	98	51-145	9	20		
Methylene Chloride	ug/L	<0.58	50	50	55.8	50.5	112	101	73-140	10	20		
o-Xylene	ug/L	<0.26	50	50	56.5	51.2	113	102	70-130	10	20		
Styrene	ug/L	<0.47	50	50	55.0	51.2	110	102	70-130	7	20		
Tetrachloroethene	ug/L	<0.33	50	50	53.6	50.7	107	101	70-130	6	20		
Toluene	ug/L	<0.17	50	50	53.6	51.2	107	102	80-131	5	20		
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	63.5	58.7	127	117	73-148	8	20		
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	53.6	50.0	107	100	70-130	7	20		
Trichloroethene	ug/L	16.5	50	50	70.6	72.6	108	112	70-130	3	20		
Trichlorofluoromethane	ug/L	<0.21	50	50	61.2	56.4	122	113	74-147	8	20		
Vinyl chloride	ug/L	<0.17	50	50	49.0	44.0	98	88	41-129	11	20		
4-Bromofluorobenzene (S)	%						100	94	70-130				
Dibromofluoromethane (S)	%						104	96	70-130				
Toluene-d8 (S)	%						102	98	70-130				

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QUALITY CONTROL DATA

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

QC Batch: 332210 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40193740001, 40193740002, 40193740005, 40193740006, 40193740007, 40193740008

METHOD BLANK: 1927366 Matrix: Solid
Associated Lab Samples: 40193740001, 40193740002, 40193740005, 40193740006, 40193740007, 40193740008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<4.0	13.4	08/29/19 13:47	
2-Methylnaphthalene	ug/kg	<5.0	16.7	08/29/19 13:47	
Acenaphthene	ug/kg	<3.9	12.9	08/29/19 13:47	
Acenaphthylene	ug/kg	<3.3	11.0	08/29/19 13:47	
Anthracene	ug/kg	<5.7	19.0	08/29/19 13:47	
Benzo(a)anthracene	ug/kg	<3.2	10.6	08/29/19 13:47	
Benzo(a)pyrene	ug/kg	<2.5	8.4	08/29/19 13:47	
Benzo(b)fluoranthene	ug/kg	<2.8	9.4	08/29/19 13:47	
Benzo(g,h,i)perylene	ug/kg	<2.0	6.8	08/29/19 13:47	
Benzo(k)fluoranthene	ug/kg	<2.5	8.4	08/29/19 13:47	
Chrysene	ug/kg	<3.4	11.2	08/29/19 13:47	
Dibenz(a,h)anthracene	ug/kg	<2.2	7.4	08/29/19 13:47	
Fluoranthene	ug/kg	<5.2	17.4	08/29/19 13:47	
Fluorene	ug/kg	<4.1	13.8	08/29/19 13:47	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.2	7.3	08/29/19 13:47	
Naphthalene	ug/kg	<8.4	28.1	08/29/19 13:47	
Phenanthrene	ug/kg	<11.6	38.8	08/29/19 13:47	
Pyrene	ug/kg	<4.5	15.0	08/29/19 13:47	
2-Fluorobiphenyl (S)	%	79	28-99	08/29/19 13:47	
Terphenyl-d14 (S)	%	80	10-107	08/29/19 13:47	

LABORATORY CONTROL SAMPLE: 1927367

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	267	80	47-104	
2-Methylnaphthalene	ug/kg	333	269	81	50-100	
Acenaphthene	ug/kg	333	288	86	56-113	
Acenaphthylene	ug/kg	333	297	89	55-113	
Anthracene	ug/kg	333	333	100	59-103	
Benzo(a)anthracene	ug/kg	333	256	77	55-102	
Benzo(a)pyrene	ug/kg	333	256	77	59-114	
Benzo(b)fluoranthene	ug/kg	333	294	88	53-124	
Benzo(g,h,i)perylene	ug/kg	333	310	93	48-114	
Benzo(k)fluoranthene	ug/kg	333	312	94	61-118	
Chrysene	ug/kg	333	310	93	62-108	
Dibenz(a,h)anthracene	ug/kg	333	262	79	51-114	
Fluoranthene	ug/kg	333	298	89	59-113	
Fluorene	ug/kg	333	311	94	56-117	
Indeno(1,2,3-cd)pyrene	ug/kg	333	275	82	52-115	
Naphthalene	ug/kg	333	256	77	54-95	

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QUALITY CONTROL DATA

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

LABORATORY CONTROL SAMPLE: 1927367

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	333	254	76	58-101	
Pyrene	ug/kg	333	276	83	56-105	
2-Fluorobiphenyl (S)	%			87	28-99	
Terphenyl-d14 (S)	%			81	10-107	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1927368 1927369

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40193539031 Result	Spike Conc.	Spike Conc.	Conc.								
1-Methylnaphthalene	ug/kg	<4.7	390	390	390	277	244	71	63	39-104	13	29	
2-Methylnaphthalene	ug/kg	<5.9	390	390	390	281	246	72	63	40-100	13	32	
Acenaphthene	ug/kg	<4.5	390	390	390	280	257	72	66	50-113	8	21	
Acenaphthylene	ug/kg	<3.9	390	390	390	311	285	80	73	42-114	9	27	
Anthracene	ug/kg	<6.7	390	390	390	318	301	81	77	33-105	5	21	
Benzo(a)anthracene	ug/kg	<3.7	390	390	390	252	235	64	60	43-102	7	21	
Benzo(a)pyrene	ug/kg	<2.9	390	390	390	269	263	69	67	34-117	3	22	
Benzo(b)fluoranthene	ug/kg	<3.3	390	390	390	289	271	74	69	35-124	6	35	
Benzo(g,h,i)perylene	ug/kg	<2.4	390	390	390	303	285	78	73	10-120	6	30	
Benzo(k)fluoranthene	ug/kg	<2.9	390	390	390	299	294	76	75	31-128	2	27	
Chrysene	ug/kg	<3.9	390	390	390	302	283	77	72	39-108	7	20	
Dibenz(a,h)anthracene	ug/kg	<2.6	390	390	390	267	256	69	66	19-114	4	28	
Fluoranthene	ug/kg	<6.1	390	390	390	296	277	75	70	45-113	7	22	
Fluorene	ug/kg	<4.8	390	390	390	309	293	79	75	48-117	5	21	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.6	390	390	390	275	265	70	68	10-123	4	28	
Naphthalene	ug/kg	<9.9	390	390	390	278	247	71	63	32-101	12	27	
Phenanthrene	ug/kg	<13.6	390	390	390	266	246	68	63	40-101	8	20	
Pyrene	ug/kg	<5.3	390	390	390	268	257	68	66	35-105	4	26	
2-Fluorobiphenyl (S)	%							80	71	28-99			
Terphenyl-d14 (S)	%							64	63	10-107			

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QUALITY CONTROL DATA

Project: CQ197011A FEDEX-DANE CO AIRPT
Pace Project No.: 40193740

QC Batch: 332235 Analysis Method: EPA 8270 by HVI
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI
Associated Lab Samples: 40193740003, 40193740004

METHOD BLANK: 1927432 Matrix: Water
Associated Lab Samples: 40193740003, 40193740004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	08/29/19 13:17	
2-Methylnaphthalene	ug/L	<0.0049	0.024	08/29/19 13:17	
Acenaphthene	ug/L	<0.0061	0.030	08/29/19 13:17	
Acenaphthylene	ug/L	<0.0050	0.025	08/29/19 13:17	
Anthracene	ug/L	<0.010	0.052	08/29/19 13:17	
Benzo(a)anthracene	ug/L	<0.0076	0.038	08/29/19 13:17	
Benzo(a)pyrene	ug/L	<0.011	0.053	08/29/19 13:17	
Benzo(b)fluoranthene	ug/L	0.0075J	0.029	08/29/19 13:17	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	08/29/19 13:17	
Benzo(k)fluoranthene	ug/L	0.0097J	0.038	08/29/19 13:17	
Chrysene	ug/L	<0.013	0.065	08/29/19 13:17	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	08/29/19 13:17	
Fluoranthene	ug/L	<0.011	0.053	08/29/19 13:17	
Fluorene	ug/L	<0.0080	0.040	08/29/19 13:17	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	08/29/19 13:17	
Naphthalene	ug/L	<0.018	0.092	08/29/19 13:17	
Phenanthrene	ug/L	<0.014	0.069	08/29/19 13:17	
Pyrene	ug/L	<0.0076	0.038	08/29/19 13:17	
2-Fluorobiphenyl (S)	%	61	30-85	08/29/19 13:17	
Terphenyl-d14 (S)	%	89	10-120	08/29/19 13:17	

LABORATORY CONTROL SAMPLE: 1927433

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.1	56	39-88	
2-Methylnaphthalene	ug/L	2	1.2	59	40-93	
Acenaphthene	ug/L	2	1.4	69	43-102	
Acenaphthylene	ug/L	2	1.3	65	42-103	
Anthracene	ug/L	2	1.5	77	52-105	
Benzo(a)anthracene	ug/L	2	1.6	82	39-120	
Benzo(a)pyrene	ug/L	2	1.7	86	57-117	
Benzo(b)fluoranthene	ug/L	2	1.2	61	54-117	
Benzo(g,h,i)perylene	ug/L	2	0.87	44	32-82	
Benzo(k)fluoranthene	ug/L	2	2.1	107	56-123	
Chrysene	ug/L	2	2.0	100	63-122	
Dibenz(a,h)anthracene	ug/L	2	0.82	41	23-76	
Fluoranthene	ug/L	2	1.6	82	52-112	
Fluorene	ug/L	2	1.5	73	46-116	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.5	75	49-110	
Naphthalene	ug/L	2	1.2	60	37-84	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

LABORATORY CONTROL SAMPLE: 1927433

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	2	1.6	78	50-104	
Pyrene	ug/L	2	1.8	88	57-123	
2-Fluorobiphenyl (S)	%			67	30-85	
Terphenyl-d14 (S)	%			96	10-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1927434 1927435

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40193892001 Result	Spike Conc.	Spike Conc.	Conc.								
1-Methylnaphthalene	ug/L	<0.0062	2.1	2.1	0.99	0.96	46	45	35-90	3	27		
2-Methylnaphthalene	ug/L	0.0066J	2.1	2.1	1.1	1.0	49	49	40-93	2	26		
Acenaphthene	ug/L	<0.0064	2.1	2.1	1.2	1.1	54	54	30-106	1	30		
Acenaphthylene	ug/L	<0.0052	2.1	2.1	1.1	1.1	51	50	37-103	3	27		
Anthracene	ug/L	<0.011	2.1	2.1	1.4	1.2	64	57	27-107	13	34		
Benzo(a)anthracene	ug/L	<0.0079	2.1	2.1	1.3	1.2	63	57	10-120	11	50		
Benzo(a)pyrene	ug/L	<0.011	2.1	2.1	1.3	1.2	63	56	10-117	12	50		
Benzo(b)fluoranthene	ug/L	<0.0060	2.1	2.1	1.0	0.95	49	45	10-121	8	49		
Benzo(g,h,i)perylene	ug/L	<0.0071	2.1	2.1	0.61	0.54	29	26	10-82	13	50		
Benzo(k)fluoranthene	ug/L	<0.0079	2.1	2.1	1.6	1.4	75	65	10-123	16	50		
Chrysene	ug/L	<0.014	2.1	2.1	1.8	1.7	84	79	17-122	7	36		
Dibenz(a,h)anthracene	ug/L	<0.011	2.1	2.1	0.61	0.55	29	26	10-76	12	50		
Fluoranthene	ug/L	<0.011	2.1	2.1	1.4	1.4	65	64	27-112	2	42		
Fluorene	ug/L	<0.0084	2.1	2.1	1.2	1.2	56	57	38-116	1	29		
Indeno(1,2,3-cd)pyrene	ug/L	<0.019	2.1	2.1	1.0	0.84	48	40	10-110	20	50		
Naphthalene	ug/L	<0.019	2.1	2.1	1.1	1.1	52	50	35-85	5	28		
Phenanthrene	ug/L	<0.015	2.1	2.1	1.3	1.3	59	60	31-106	1	42		
Pyrene	ug/L	<0.0081	2.1	2.1	1.5	1.5	71	69	30-123	3	31		
2-Fluorobiphenyl (S)	%						54	54	30-85				
Terphenyl-d14 (S)	%						81	76	10-120				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

QC Batch: 332654

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 40193740001

SAMPLE DUPLICATE: 1930547

Parameter	Units	40193339002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	25.0	24.1	3	10	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: CQ197011A FEDEX-DANE CO AIRPT

Pace Project No.: 40193740

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: 332290

[IP] Benzo(b)fluoranthene and benzo(k)fluoranthene were in the check standard but did not meet the resolution criteria in SW846 Method 8270C. Whereas sample results included are reported as individual isomers, the lab and the customer must recognize them as an isomeric pair.

ANALYTE QUALIFIERS

1q Analyte was measured in the associated method blank at a concentration of -0.69 mg/kg.

B Analyte was detected in the associated method blank.

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

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

W Non-detect results are reported on a wet weight basis.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CQ197011A FEDEX-DANE CO AIRPT
Pace Project No.: 40193740

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40193740001	SB-1(4-6FT)/082319	EPA 3050	332047	EPA 6010	332287
40193740002	SB-2(5-6FT)/082319	EPA 3050	332047	EPA 6010	332287
40193740005	SB-3(4-5FT)/082319	EPA 3050	332047	EPA 6010	332287
40193740006	SB-4(1.5-2.5FT)/082319	EPA 3050	332047	EPA 6010	332287
40193740007	SB-5(4-5FT)/082319	EPA 3050	332047	EPA 6010	332287
40193740008	SB-6(4.5-5.5FT)/082319	EPA 3050	332047	EPA 6010	332287
40193740003	SB-1/GW/082319	EPA 3010	332325	EPA 6010	332424
40193740004	SB-2/GW/082319	EPA 3010	332325	EPA 6010	332424
40193740003	SB-1/GW/082319	EPA 7470	332526	EPA 7470	332583
40193740004	SB-2/GW/082319	EPA 7470	332526	EPA 7470	332583
40193740001	SB-1(4-6FT)/082319	EPA 7471	332208	EPA 7471	332294
40193740002	SB-2(5-6FT)/082319	EPA 7471	332208	EPA 7471	332294
40193740005	SB-3(4-5FT)/082319	EPA 7471	332208	EPA 7471	332294
40193740006	SB-4(1.5-2.5FT)/082319	EPA 7471	332208	EPA 7471	332294
40193740007	SB-5(4-5FT)/082319	EPA 7471	332208	EPA 7471	332294
40193740008	SB-6(4.5-5.5FT)/082319	EPA 7471	332208	EPA 7471	332294
40193740001	SB-1(4-6FT)/082319	EPA 3546	332210	EPA 8270 by SIM	332290
40193740002	SB-2(5-6FT)/082319	EPA 3546	332210	EPA 8270 by SIM	332290
40193740005	SB-3(4-5FT)/082319	EPA 3546	332210	EPA 8270 by SIM	332290
40193740006	SB-4(1.5-2.5FT)/082319	EPA 3546	332210	EPA 8270 by SIM	332290
40193740007	SB-5(4-5FT)/082319	EPA 3546	332210	EPA 8270 by SIM	332290
40193740008	SB-6(4.5-5.5FT)/082319	EPA 3546	332210	EPA 8270 by SIM	332290
40193740003	SB-1/GW/082319	EPA 3510	332235	EPA 8270 by HVI	332311
40193740004	SB-2/GW/082319	EPA 3510	332235	EPA 8270 by HVI	332311
40193740001	SB-1(4-6FT)/082319	EPA 5035/5030B	332099	EPA 8260	332102
40193740002	SB-2(5-6FT)/082319	EPA 5035/5030B	332099	EPA 8260	332102
40193740005	SB-3(4-5FT)/082319	EPA 5035/5030B	332099	EPA 8260	332102
40193740006	SB-4(1.5-2.5FT)/082319	EPA 5035/5030B	332099	EPA 8260	332102
40193740007	SB-5(4-5FT)/082319	EPA 5035/5030B	332099	EPA 8260	332102
40193740008	SB-6(4.5-5.5FT)/082319	EPA 5035/5030B	332099	EPA 8260	332102
40193740003	SB-1/GW/082319	EPA 8260	332051		
40193740004	SB-2/GW/082319	EPA 8260	332051		
40193740009	TRIP BLANK	EPA 8260	332051		
40193740001	SB-1(4-6FT)/082319	ASTM D2974-87	332654		
40193740002	SB-2(5-6FT)/082319	ASTM D2974-87	332656		
40193740005	SB-3(4-5FT)/082319	ASTM D2974-87	332656		
40193740006	SB-4(1.5-2.5FT)/082319	ASTM D2974-87	332656		
40193740007	SB-5(4-5FT)/082319	ASTM D2974-87	332656		
40193740008	SB-6(4.5-5.5FT)/082319	ASTM D2974-87	332656		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: SMA
 Branch/Location: DeWitts Grove LC
 Project Contact: Steve Swyers
 Phone: 630 427 8160
 Project Number: CQ19701A
 Project Name: Federx-Delaware County Air Port
 Project State: WI
 Sampled By (Print): MHT LYN
 Sampled By (Sign): *[Signature]*
 PO #:
 Regulatory Program:
 Data Package Options (billable):
 EPA Level III On your sample (billable)
 EPA Level IV NOT needed on your sample
 Matrix Codes:
 A=Air B=Bioa C=Charcoal O=Oil S=Soil SI=Sludge
 W=Water DW=Drinking Water GW=Ground Water SW=Surface Water MW=Marsh Water WP=Wipe



CHAIN OF CUSTODY

Preservation Codes:
 A=None B=HCL C=H2SO4 D=HNO3 E=D Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

PAGE LAB #	CLIENT FIELD ID	DATE	TIME	MATRIX	ANALYSES REQUESTED	FILTERED? (YES/NO)		PRESERVATION CODE(S)
						Y/N	Pick Letter	
001	SB-1(4-5A) / CQ2314	8/23/14	0940	S	VOCS PAH RCRA Metals TPH DRO TPH GRO			
002	SB-2(5-6A) / CQ2314	0945	S	S				
003	SB-1/GW/CQ2314	1000	W	W				
004	SB-2/GW/CQ2314	1030	W	W				
005	SB-3(4-5A) / CQ2314	1105	S	S				
006	SB-4(1-5-2-5A) / CQ2314	1135	S	S				
007	SB-5(4-5A) / CQ2314	1210	S	S				
008	SB-6(4-5-5A) / CQ2314	1250	S	S				
009	TRP Blank							

Relinquished By: *[Signature]* Date/Time: 8/23/14 1530
 Relinquished By: *[Signature]* Date/Time: 8/26/14 1700
 Relinquished By: CS Logistics Date/Time: 08/27/14 0850
 Received By: *[Signature]* Date/Time: 8/26/14 1819
 Received By: *[Signature]* Date/Time: 8/26/14 1900
 Received By: *[Signature]* Date/Time: 08/27/14 0850
 Invoice To Contact:
 Invoice To Company:
 Invoice To Address:
 Invoice To Phone:
 CLIENT COMMENTS:
 LAB COMMENTS (Lab Use Only):
 Profile #

UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

Page 1 of 1
 46193740

Client Name: SMA

Sample Preservation Receipt Form

Project # SA193745

All containers needing preservation have been checked and noted below: Yes No N/A

Lab Lot# of pH paper: P050891

Lab Sid #ID of preservation (if pH adjusted): 405439

Initial when completed: MSC

Date: 08/11/14
Time: 10:30


Page Analytical Services, LLC
1241 Bellevue Street, Suite 200
Green Bay, WI 54302
Page 2 of 2

Lab #	Glass	Plastic	Vials	Jars	General	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≥7	pH after adjusted	Volume (mL)
001												2.5/5/10
002												2.5/5/10
003												2.5/5/10
004												2.5/5/10
005												2.5/5/10
006												2.5/5/10
007												2.5/5/10
008												2.5/5/10
009												2.5/5/10
010												2.5/5/10
011												2.5/5/10
012												2.5/5/10
013												2.5/5/10
014												2.5/5/10
015												2.5/5/10
016												2.5/5/10
017												2.5/5/10
018												2.5/5/10
019												2.5/5/10
020												2.5/5/10

MSC
08/10/14

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, W/DRO, Phenolics, Other: _____

AG1U	BP1U	DG9A	JGFU	SP5T
1 liter amber glass	1 liter plastic unpres	40 mL amber ascorbic	4 oz amber jar unpres	120 mL plastic Na Thiosulfate
AG1H	BP2N	DG9T	WG9U	ZP/LC
1 liter amber glass HCL	500 mL plastic HNO3	40 mL amber Na Thio	4 oz clear jar unpres	ziploc bag
AG4S	BP2Z	VG9U	WPFU	
125 mL amber glass H2SO4	500 mL plastic NaOH, Znact	40 mL clear vial unpres	4 oz plastic jar unpres	
AG4U	BP3U	VG9H		
120 mL amber glass unpres	250 mL plastic unpres	40 mL clear vial HCL		
AG5U	BP3B	VG9M		
100 mL amber glass unpres	250 mL plastic NaOH	40 mL clear vial MeOH		
AG2S	BP3N	VG9D		
500 mL amber glass H2SO4	250 mL plastic HNO3	40 mL clear vial DI		
BG3U	BP3S			
250 mL clear glass unpres	250 mL plastic H2SO4			

 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: SMA

Project #: _____

WO#: 40193740



40193740

Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____

Tracking #: _____

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

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR - N/A Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROI /Corr: _____

Temp Blank Present: yes no MSC 08/27/19 Biological Tissue is Frozen: yes no

Person examining contents:
 Date: 08/27/19
 Initials: MSC

Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. Mail, Invoice, No date for samples. MSC 08/27/19
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. 001 4oz canisters say SB-1(4-5FT)
-Includes date/time/ID/Analysis Matrix: <u>S/W</u>		002 No time on Meq vials. MSC 08/27/19
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>430</u>		Lab added Trip Blank to COC. MSC 08/27/19

Client Notification/ Resolution: _____
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____
 If checked, see attached form for additional comments

Project Manager Review: llw Date: 8/27/19

September 30, 2019

Steve Swenson
St. John-Mittelhauser & Associates
1893 S. Trainer Road
Rockford, IL 61108

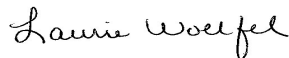
RE: Project: CQ19-1011A FEDEX-DANE COUNTY A
Pace Project No.: 40194194

Dear Steve Swenson:

Enclosed are the analytical results for sample(s) received by the laboratory on September 03, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Laurie Woelfel
laurie.woelfel@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: CQ19-1011A FEDEX-DANE COUNTY A

Pace Project No.: 40194194

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40194194001	SB-1/GW/082319	Water	08/20/19 10:00	09/03/19 14:22

REPORT OF LABORATORY ANALYSIS

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

40199199

Section A Required Client Information: Company: **SMA** Address: **1401 Brading Ave STE 305** City: **Downers Grove IL 60515** Email To: **Steve Swanson** Phone: **630-272-6666** Fax: **630-565-1100** Requested Date/Time: **STD**

Section B Required Project Information: Report To: **Steve Swanson** Copy To: **Steve Swanson** Purchase Order No.: **FA01-Devel comm AnvPort** Project Name: **FA01-Devel comm AnvPort** Project Number: **CA192011A**

Section C Invoice Information: Attention: **Steve Swanson** Company Name: **SMA** Address: **1401 Brading Ave STE 305** City: **Downers Grove IL 60515** State: **IL** Zip: **60515** Reference: **Page Project Manager** Page Profile #:

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER

Site Location: _____ STATE: _____

Page: 1 of 1
2297012

ITEM #	Section D Required Client Information Matrix Codes MATRIX / CODE DW WT WW P SL OL WP AR TS OT	Matrix Code (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Page Project No./ Lab I.D.
				COMPOSITE START	COMPOSITE END/GRAB			H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other				
1	SAMPLE ID (A-Z 0-9 / -)	WG	G	8/20/19	1000	1530	Y	X									001	
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

RELINQUISHED BY/AFFILIATION	DATE	TIME	ACCEPTED BY/AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<i>[Signature]</i> SMA	8/20/19	1530	<i>[Signature]</i> KATHAN McDonald	8/20/19 10:47		Received on Ice (Y/N) <input type="checkbox"/> Custody Sealed Cooler (Y/N) <input type="checkbox"/> Samples Intact (Y/N) <input type="checkbox"/>
<i>[Signature]</i> SMA	8/20/19	1900	<i>[Signature]</i> Fajfer	8/20/19		Received on Ice (Y/N) <input type="checkbox"/> Custody Sealed Cooler (Y/N) <input type="checkbox"/> Samples Intact (Y/N) <input type="checkbox"/>
<i>[Signature]</i> SMA	8/20/19	1530	<i>[Signature]</i> Fajfer	8/20/19 8:40:21		Received on Ice (Y/N) <input type="checkbox"/> Custody Sealed Cooler (Y/N) <input type="checkbox"/> Samples Intact (Y/N) <input type="checkbox"/>

ADDITIONAL COMMENTS

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

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: _____
 SIGNATURE of SAMPLER: *[Signature]*
 DATE Signed (MM/DD/YY): _____

ORIGINAL

Pace Analytical

Document Name: Pending Log-in Process Document No.: F-MN-C-097 Rev.05	Document Revised: 07Feb2019 Page 1 of 1 Issuing Authority: Pace Minnesota Quality Office
--	---

SR Tech AW Date Initiated 8/20/19 PM MNV Client Name SMK Profile # 90199194 Pink shelf #1 #2

Issue Type (check all that apply)* COC Issue _____ Client Name/Project Name on containers (if no COC) _____

Date/Time Received _____ Resolution _____


- Epic Issue (check one)
- Client not in Epic
 - Profile not in Epic
 - Add acode
 - Other

Sample Line Item	BP1U	BP2U	BP3U	BP3S	BP3N	AG1U	AG1H	AG3S	AG1T	JGFU	JGCU	BJFU	WPDU	VG9M	VG9H	GN	SPST	DWC
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

Check the box to the left to indicate that the container(s) received for line items _____ are identical to the container(s) documented for line item 1 for this CoC.

Comments: IR paper work needed

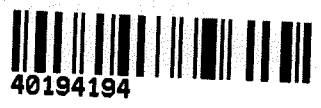
Logged in by (initial) _____ Date _____ WO _____

	Document Name: Sample Condition Upon Receipt Form	Document Revised: 23Aug2019 Page 1 of 1
	Document No.: F-MN-L-213-rev.29	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt Client Name: SMA Project #: **WO# : 40194194**

Courier: Fed Ex UPS USPS Client
 Pace Speedee Commercial See Exceptions

Tracking Number: 1672 2079 6927



Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No Biological Tissue Frozen? Yes No N/A

Packing Material: Bubble Wrap Bubble Bags None Other: _____ Temp Blank? Yes No

Thermometer: T1(0461) T2(1336) T3(0459)
 T4(0254) T5(0489) Type of Ice: Wet Blue None Dry Melted

Note: Each West Virginia Sample must have temp taken (no temp blanks)

Temp should be above freezing to 6°C Cooler Temp Read w/temp blank: 2.1 °C Average Corrected Temp (no temp blank only): See Exceptions 1 Container

Correction Factor: 0.0 Cooler Temp Corrected w/temp blank: 2.1 °C

USDA Regulated Soil: N/A, water sample/Other: _____ Date/Initials of Person Examining Contents: 8/27/19 B

Did samples originate in a quarantine zone within the United States: AL, AR, 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.

	Yes	No	N/A	COMMENTS:
Chain of Custody Present and Filled Out?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. <input type="checkbox"/> Fecal Coliform <input type="checkbox"/> HPC <input type="checkbox"/> Total Coliform/E coli <input type="checkbox"/> BOD/cBOD <input type="checkbox"/> Hex Chrome <input type="checkbox"/> Turbidity <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Orthophos <input type="checkbox"/> Other
Rush Turn Around Time Requested?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6.
Sufficient Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7.
Correct Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.
-Pace Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Containers Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.
Field Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10. Is sediment visible in the dissolved container? <input type="checkbox"/> Yes <input type="checkbox"/> No
Is sufficient information available to reconcile the samples to the COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11. If no, write ID/ Date/Time on Container Below: <input type="checkbox"/> See Exception
Matrix: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other				
All containers needing acid/base preservation have been checked?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> NaOH <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Positive for Res. Chlorine? <input type="checkbox"/> Yes <input type="checkbox"/> No See Exception
				pH Paper Lot# <input type="checkbox"/>
				Res. Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Headspace in VOA Vials (greater than 6mm)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13. <input type="checkbox"/> See Exception
Trip Blank Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14. <input type="checkbox"/>
Trip Blank Custody Seals Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: _____ Date/Time: _____ Field Data Required? Yes No

Comments/Resolution: _____

Project Manager Review: _____ Date: _____

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).

Labeled by: IJ(2) Page 5 of 18

Report Prepared for:

Laurie Woelfel
PACE Wisconsin
1241 Bellevue Street
Green Bay WI 54302

**REPORT OF
LABORATORY
ANALYSIS
FOR PFAAs**

Report Prepared Date:

September 30, 2019

Report Information:

Pace Project #: 10490019
Sample Receipt Date: 08/27/2019
Client Project #: 40194194
Client Sub PO #: N/A
State Cert #: 2926.01

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PFAA 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 Kirsten Hogberg, your Pace Project Manager.

This report has been reviewed by:



September 30, 2019

Kirsten Hogberg, Project Manager
(612) 607-6407
(612) 607-6444 (fax)
kirsten.hogberg@pacelabs.com



Report of Laboratory Analysis

This report should not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

The results relate only to the samples included in this report.

DISCUSSION

This report presents the results from the analysis performed on one sample submitted by a representative of Pace-Wisconsin. The sample was analyzed for twenty-one perfluorinated compounds using a modified version of USEPA Method 537. Reporting limits were set to the quantitation limits. Two compounds are reported by client request.

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 was free of the target perfluorinated compounds at the reporting limits. This indicates that the sample processing procedures did not significantly contribute to the analyte content determined for the sample material.

Laboratory spike samples were also prepared with the sample batch using clean reference matrix that had been fortified with native standards. The recovery results were within the method limits. The RPDs (relative percent differences) between one designated spike and its duplicate were within the method limits. These spikes indicate that extraction performed as expected. A matrix spike was prepared with the sample batch using sample material from a separate project; results from that analysis will be provided upon request.

Recoveries for isotopically-labeled surrogate standards in the sample extracts were within the target ranges specified in the method.

It should be noted that Pace Analytical has not yet completed the certification process for all analytes in this method. Therefore, the results have been marked "N2" as qualified.

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Minnesota - Pet	1240
Alabama	40770	Mississippi	MN00064
Alaska - DW	MN00064	Missouri - DW	10100
Alaska - UST	17-009	Montana	CERT0092
Arizona	AZ0014	Nebraska	NE-OS-18-06
Arkansas - DW	MN00064	Nevada	MN00064
Arkansas - WW	88-0680	New Hampshire	2081
CNMI Saipan	MP0003	New Jersey (NE)	MN002
California	2929	New York	11647
Colorado	MN00064	North Carolina	27700
Connecticut	PH-0256	North Carolina -	27700
EPA Region 8+	via MN 027-053	North Carolina -	530
Florida (NELAP)	E87605	North Dakota	R-036
Georgia	959	Ohio - DW	41244
Guam	17-001r	Ohio - VAP	CL101
Hawaii	MN00064	Oklahoma	9507
Idaho	MN00064	Oregon - Primar	MN300001
Illinois	200011	Oregon - Secon	MN200001
Indiana	C-MN-01	Pennsylvania	68-00563
Iowa	368	Puerto Rico	MN00064
Kansas	E-10167	South Carolina	74003
Kentucky - DW	90062	South Dakota	NA
Kentucky - WW	90062	Tennessee	TN02818
Louisiana - DE	03086	Texas	T104704192
Louisiana - DW	MN00064	Utah (NELAP)	MN00064
Maine	MN00064	Virginia	460163
Maryland	322	Washington	C486
Massachusetts	M-MN064	West Virginia -	382
Michigan	9909	West Virginia -	9952C
Minnesota	027-053-137	Wisconsin	999407970
Minnesota - De	via MN 027-053	Wyoming - UST	2926.01

REPORT OF LABORATORY ANALYSIS

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Appendix A

Sample Management

Chain of Custody

Samples were sent directly to the Subcontracting Laboratory.

State Of Origin: WI

Cert. Needed: Yes No

Workorder: 40194194 Workorder Name: CQ19-1011A FEDEX-DANE COUNTY A Owner Received Date: 9/3/2019 Results Requested By: 10/2/2019

Report To: **Subcontract To**

Laurie Woelfel
Pace Analytical Green Bay
1241 Bellevue Street
Suite 9
Green Bay, WI 54302
Phone (920)469-2436

Pace Analytical Minnesota
1700 Elm Street SE
Suite 200
Minneapolis, MN 55414
Phone (612)607-1700

WO#: 10490019



Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	
						Unpreserved	Preserved
1	SB-1/GW002319	PS	8/20/2019 10:00	40194194001	Water	4	X
2							
3							
4							
5							

537M PFOA & PFOS

LAB USE ONLY

Transfers	Released By	Date/Time	Received By	Date/Time
1			TJ PACE	8-21-19 08:40
2				
3				

Cooler Temperature on Receipt 2.1 °C Custody Seal or N Received on Ice or N Samples Intact or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.



Sample Condition Upon Receipt **Client Name:** SMA **Project #:** **WO#: 10490019**

Courier: Fed Ex UPS USPS Client
 Pace Speedee Commercial See Exceptions

Tracking Number: 1672 2079 6927

Custody Seal on Cooler/Box Present? Yes No **Seals Intact?** Yes No **Biological Tissue Frozen?** Yes No N/A

Packing Material: Bubble Wrap Bubble Bags None Other: _____ **Temp Blank?** Yes No

Thermometer: T1(0461) T2(1336) T3(0459)
 T4(0254) T5(0489) **Type of Ice:** Wet Blue None Dry Melted

Note: Each West Virginia Sample must have temp taken (no temp blanks)

Temp should be above freezing to 6°C	Cooler Temp Read w/temp blank: <u>2.1</u> °C	Average Corrected Temp (no temp blank only): <input type="checkbox"/> See Exceptions <input type="checkbox"/> 1 Container
Correction Factor: <u>0.0</u>	Cooler Temp Corrected w/temp blank: <u>2.1</u> °C	

USDA Regulated Soil: N/A, water sample/Other: _____ **Date/Initials of Person Examining Contents:** 8/27/19 B

Did samples originate in a quarantine zone within the United States: AL, AR, 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 and Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. <input type="checkbox"/> Fecal Coliform <input type="checkbox"/> HPC <input type="checkbox"/> Total Coliform/E coli <input type="checkbox"/> BOD/cBOD <input type="checkbox"/> Hex Chrome <input type="checkbox"/> Turbidity <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Orthophos <input type="checkbox"/> Other _____
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Field Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10. Is sediment visible in the dissolved container? <input type="checkbox"/> Yes <input type="checkbox"/> No
Is sufficient information available to reconcile the samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. If no, write ID/ Date/Time on Container Below: See Exception <input type="checkbox"/>
Matrix: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other _____		
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12. Sample # <input type="checkbox"/> NaOH <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> Zinc Acetate
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAA	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Positive for Res. <input type="checkbox"/> Yes <input type="checkbox"/> No See Exception <input type="checkbox"/> Chlorine? <input type="checkbox"/> Yes <input type="checkbox"/> No pH Paper Lot# _____
	KNH 9/4/19	Res. Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Headspace in VOA Vials (greater than 6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. See Exception <input type="checkbox"/>
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Pace Trip Blank Lot # (if purchased): _____

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

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Kirsten Hooper **Date:** 9/4/19

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).

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
- L = Suppressive interference, analyte may be biased low
- 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

REPORT OF LABORATORY ANALYSIS

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Appendix B

Sample Analysis Summary



Method 537 (Modified)
Sample Analysis Summary

Client's Sample ID	SB-1/GW/082319	Date Extracted	09/05/2019
Lab Sample ID	40194194001	Total Amount Extracted	258 mL
Filename	A190909D_066	ICAL ID	190909A03
Matrix	Non_Potable_Wat	Starting CCal	A190909D_059
Collected	08/20/2019	Ending CCal	A190909D_070
Received	08/27/2019	Method Blank Filename	A190909D_049

Compound	Concentration (ng/L)	PQL (ng/L)	MDL (ng/L)	Dilution	Analyzed	CAS No.	Qual.
PFOA	13	1.9	0.43	1	09/10/201902:15	335-67-1	
PFOS	38	1.9	0.60	1	09/10/201902:15	1763-23-1	N2

Surrogate Standards

SS Compound	Spiked	Found	%Recovery	Limits	Pass/Fail
13C2_PFHxA	2.0	1.9	93	70 - 130	Pass
13C2_PFDA	2.0	1.8	89	70 - 130	Pass
d5-EtFOSAA	8.0	7.7	96	70 - 130	Pass

Internal Standards

IS Compound	Area	Ical Limits	CCV Limits	Pass/Fail
13C3_PFPPrOPrA	3226365	1645428 - 4936283	2401535 - 4803069	Pass
13C2_PFOA	862096	403041 - 1209124	546049 - 1092098	Pass
13C4_PFOS	2184773	1024115 - 3072345	1351128 - 2702256	Pass
d3-MeFOSAA	1333353	500984 - 1502952	770614 - 1541229	Pass

50-150% of Ical area
 70-140% of the preceding CCV area

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



Method 537 (Modified) Blank Analysis Summary

Lab Sample ID	BLANK-73236	Total Amount Extracted	245 mL
Filename	A190909D_049	ICAL ID	190909C03
Matrix	Water	Starting CCal	A190909D_048
Date Extracted	09/05/2019	Ending CCal	A190909D_059

Compound	Concentration (ng/L)	PQL (ng/L)	MDL (ng/L)	Dilution	Analyzed	CAS No.	Qual.
PFOA	ND	2.0	0.45	1	09/09/201923:56	335-67-1	
PFOS	ND	2.0	0.64	1	09/09/201923:56	1763-23-1	N2

Surrogate Standards

SS Compound	Spiked	Found	%Recovery	Limits	Pass/Fail
13C2_PFHxA	2.0	2.0	99	70 - 130	Pass
13C2_PFDA	2.0	1.8	92	70 - 130	Pass
d5-EtFOSAA	8.0	6.4	80	70 - 130	Pass

Internal Standards

IS Compound	Area	Ical Limits	CCV Limits	Pass/Fail
13C3_PFPPrA	3086017	1661033 - 4983099	2280602 - 4561204	Pass
13C2_PFOA	762117	390515 - 1171546	529576 - 1059152	Pass
13C4_PFOS	1939309	985363 - 2956090	1350121 - 2700242	Pass
d3-MeFOSAA	1196361	509964 - 1529891	739381 - 1478762	Pass

50-150% of Ical area

70-140% of the preceding CCV area

N2 = The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.



Method 537 (Modified) Laboratory Control Sample (LCS)

LCS Lab Sample ID	LCS-73237	Matrix	Water
LCS Filename	A190909D_050	Dilution	1
Total Amount Extracted	254mL	Extracted	09/05/2019
ICAL ID	190909C03	Analyzed	09/10/2019 00:04
Start CCal Filename	A190909D_048	Injected By	NH
End CCal Filename	A190909D_059		
Method Blank Filename	A190909D_049		

Compound	Spiked (ng/L)	Recovered (ng/L)	Recovery %	Limits
PFOA	2.0	2.0	104	50.0 - 150.0
PFOS	1.9	2.2	116	50.0 - 150.0

Surrogate Standards

SS Compound	Spiked	Found	%Recovery	Limits	Pass/Fail
13C2_PFHxA	2.0	1.6	82	70 - 130	Pass
13C2_PFDA	2.0	2.0	99	70 - 130	Pass
d5-EtFOSAA	8.0	6.6	83	70 - 130	Pass

Internal Standards

IS Compound	Area	Ical Limits	CCV Limits	Pass/Fail
13C3_PFPPrOPrA	3057609	1661033 - 4983099	2280602 - 4561204	Pass
13C2_PFOA	811779	390515 - 1171546	529576 - 1059152	Pass
13C4_PFOS	1986095	985363 - 2956090	1350121 - 2700242	Pass
d3-MeFOSAA	1096269	509964 - 1529891	739381 - 1478762	Pass

50-150% of Ical area

70-140% of the preceding CCV area



Method 537 (Modified) Laboratory Control Sample (LCS)

LCS Lab Sample ID	LCS-73238	Matrix	Water
LCS Filename	A190909D_051	Dilution	1
Total Amount Extracted	255mL	Extracted	09/05/2019
ICAL ID	190909C03	Analyzed	09/10/2019 00:12
Start CCal Filename	A190909D_048	Injected By	NH
End CCal Filename	A190909D_059		
Method Blank Filename	A190909D_049		

Compound	Spiked (ng/L)	Recovered (ng/L)	Recovery %	Limits
PFOA	39	38	97	70.0 - 130.0
PFOS	38	37	99	70.0 - 130.0

Surrogate Standards

SS Compound	Spiked	Found	%Recovery	Limits	Pass/Fail
13C2_PFHxA	2.0	1.8	89	70 - 130	Pass
13C2_PFDA	2.0	1.9	93	70 - 130	Pass
d5-EtFOSAA	8.0	6.3	79	70 - 130	Pass

Internal Standards

IS Compound	Area	Ical Limits	CCV Limits	Pass/Fail
13C3_PFPPrOPrA	2964702	1661033 - 4983099	2280602 - 4561204	Pass
13C2_PFOA	799642	390515 - 1171546	529576 - 1059152	Pass
13C4_PFOS	1993895	985363 - 2956090	1350121 - 2700242	Pass
d3-MeFOSAA	1118124	509964 - 1529891	739381 - 1478762	Pass

50-150% of Ical area

70-140% of the preceding CCV area



Method 537 (Modified) Laboratory Control Sample Duplicate (LCSD)

LCSD Lab Sample ID	LCSD-73239	LCS Filename	A190909D_051
LCSD Filename	A190909D_052	Matrix	Water
Total Amount Extracted	250mL	Dilution	1
ICAL ID	190909C03	Extracted	09/05/2019
Start CCal Filename	A190909D_048	Analyzed	09/10/2019 00:20
End CCal Filename	A190909D_059	Injected By	NH
Method Blank Filename	A190909D_049		

Compound	Spiked (ng/L)	Recovered (ng/L)	Recovery %	Recovery Limits	RPD %
PFOA	40	39	96	70.0 - 130.0	1
PFOS	38	41	107	70.0 - 130.0	10

Surrogate Standards

SS Compound	Spiked	Found	%Recovery	Limits	Pass/Fail
13C2_PFHxA	2.0	1.7	87	70 - 130	Pass
13C2_PFDA	2.0	2.1	103	70 - 130	Pass
d5-EtFOSAA	8.0	7.0	88	70 - 130	Pass

Internal Standards

IS Compound	Area	Ical Limits	CCV Limits	Pass/Fail
13C3_PFPPrA	3002363	1661033 - 4983099	2280602 - 4561204	Pass
13C2_PFOA	826492	390515 - 1171546	529576 - 1059152	Pass
13C4_PFOS	1994183	985363 - 2956090	1350121 - 2700242	Pass
d3-MeFOSAA	1077280	509964 - 1529891	739381 - 1478762	Pass

50-150% of Ical area

70-140% of the preceding CCV area