



LABORATORY RESULTS FOR WORK ORDER 14C0184

FPL-045
Exhibit 5

FPL Central Laboratory
6001A Village Blvd.
West Palm Beach, FL 33407
Phone: 561-640-2055



PTN - FPL Turkey Point Nuclear Plant
9760 SW 344 Street
Homestead FL, 33035

State of Florida CompQA/QA Manual: 920041
NELAC Certification #: E56078

Reported:
03/19/2014 15:52

Attn: Marister Ruiz

Case Narrative for MD-WASD South District WWTP

SAMPLE COLLECTION:

On 03/02/2014 at 08:45 AM, two flow-based compositors were set up at the Miami-Dade County South District Waste Water Treatment Plant. One compositor was set up at the east side collection point and the second one was set up at the west side collection point. Both compositors are HACH Sigma 900 MAX auto samplers. Each auto sampler collected and placed into four separate 10 liter jugs 85 mL individual grab samples. Each grab sample was taken after a set amount of flow had past through the system. The composite jugs are kept within a refrigerated area of the auto sampler. The temperature through-out the entire composite period of 24 hours was maintained at less than 6 degrees Celsius. However, due to an equipment malfunction the West side Compositor did not collect any individual grab samples. The West side sample will be recollected at a later date.

On 03/03/2013 at 8:50 AM, the four 10 liter jugs from the east side collection point were completely full. The four full jugs were then composited in to one approximately twenty liter sample that was labeled East Composite. A second sampe was pour from the main composite and labeled East Duplicate Composite.

At 08:50 AM, a two grab samples were taken from the east side collection point for the Volatile Organic Compounds analysis by EPA Method 624. These samples were collected from a sampling point that did not need tubing and were labeled as East Grab abd East Duplicate Grab. A separate grab sample was collected and tested in the field for pH, Temperature, Free Chlorine and Total Chlorine.

At 09:00 AM, a grab sample was taken from the west side collection point for the Volatile Organic Compounds analysis by EPA Method 624. These

Serial #: 03192014155243

FPL Central Lab

Tom Helton, QA Officer

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sample was collected from a sampling point that did not need tubing and was labeled as West Grab. A separate grab sample was collected and tested in the field for pH, Temperature, Free Chlorine and Total Chlorine.

SAMPLE LOGIN:

On 3/4/2014 4:30:00 PM , the following samples were received by Tom Helton of the Florida Power & Light Central Lab:

East Composite
East Duplicate Composite
East Duplicate Grab
East Grab
West Grab

All samples were received in the EPA mandated bottles and at a temperature of 0.1 Deg C..

SUBCONTRACT ANALYSIS:

The samples were subcontracted to PACE Analytical Services, Inc. The samples were analyzed by the following laboratories within the PACE Analytical Services, Inc. network. All PACE laboratories are certified by the State of Florida under it TNI certification program. The report contained

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within shows the TNI certification numbers for each laboratory. All data is reported and any data qualifier flags associated with the results are listed at the back of this report in the Notes and Definitions Section.

Ormond Beach, FL.

EPA 608
EPA 624

Field Data as Received

Sample Name	pH	Temperature (Deg. C)	Conductivity	Total Chlorine	Free Chlorine	LabNumber
East Grab	7.21	25.36	827	1.44	0.15	14C0184-01
East Duplicate Grab	7.21	25.36	827	1.44	0.15	14C0184-02
West Grab	7.43	25.87	816	1.63	0.05	14C0184-03
East Composite	6.88	13.18	626	0.78	0.00	14C0184-04
East Duplicate Composite	6.88	13.18	626	0.78	0.01	14C0184-05

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Reported:
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East Grab

Sampled: 3/3/2014 8:50:00AM Received: 3/4/2014 4:30:00PM
Lab Sample #: 14C0184-01 Sample Matrix: Water Sampled by: James Hunt Sample Type: Grab

Analyte	Result	Qualifier	MDL	PQL	Units	Dilution	Batch	Prepared	Analyst	Analyzed	Method	Certification
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Pace Analytical - NELAC Certification #: E83079

GC/MS Volatiles

Ethylbenzene	U	0.50	1.0	ug/L	1	167645	3/14/2014 11:38	JLR	3/14/2014 11:38	EPA 624
Tetrachloroethene	U	0.50	1.0	ug/L	1	167645	3/14/2014 11:38	JLR	3/14/2014 11:38	EPA 624
Toluene	U	0.50	1.0	ug/L	1	167645	3/14/2014 11:38	JLR	3/14/2014 11:38	EPA 624
Surrogate: 1,2-Dichloroethane-d4 (S)			105 %		79-123	167645	3/14/2014 11:38		3/14/2014 11:38	EPA 624
Surrogate: 4-Bromofluorobenzene (S)			101 %		71-111	167645	3/14/2014 11:38		3/14/2014 11:38	EPA 624
Surrogate: Toluene-d8 (S)			103 %		77-116	167645	3/14/2014 11:38		3/14/2014 11:38	EPA 624

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NELAC Certification #: E56078

Reported:
03/19/2014 15:52

East Duplicate Grab

Sampled: 3/3/2014 8:50:00AM Received: 3/4/2014 4:30:00PM
Lab Sample #: 14C0184-02 Sample Matrix: Water Sampled by: James Hunt Sample Type: Grab

Analyte	Result	Qualifier	MDL	PQL	Units	Dilution	Batch	Prepared	Analyst	Analyzed	Method	Certification
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Pace Analytical - NELAC Certification #: E83079

GC/MS Volatiles

Ethylbenzene	U	0.50	1.0	ug/L	1	167645	3/14/2014 12:04	JLR	3/14/2014 12:04	EPA 624
Tetrachloroethene	U	0.50	1.0	ug/L	1	167645	3/14/2014 12:04	JLR	3/14/2014 12:04	EPA 624
Toluene	U	0.50	1.0	ug/L	1	167645	3/14/2014 12:04	JLR	3/14/2014 12:04	EPA 624
Surrogate: 1,2-Dichloroethane-d4 (S)			108 %		79-123	167645	3/14/2014 12:04		3/14/2014 12:04	EPA 624
Surrogate: 4-Bromofluorobenzene (S)			96 %		71-111	167645	3/14/2014 12:04		3/14/2014 12:04	EPA 624
Surrogate: Toluene-d8 (S)			104 %		77-116	167645	3/14/2014 12:04		3/14/2014 12:04	EPA 624

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Reported:
03/19/2014 15:52

West Grab

Sampled: 3/3/2014 9:00:00AM Received: 3/4/2014 4:30:00PM
Lab Sample #: 14C0184-03 Sample Matrix: Water Sampled by: James Hunt Sample Type: Grab

Analyte	Result	Qualifier	MDL	PQL	Units	Dilution	Batch	Prepared	Analyst	Analyzed	Method	Certification
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Pace Analytical - NELAC Certification #: E83079

GC/MS Volatiles

Ethylbenzene	U	0.50	1.0	ug/L	1	167645	3/14/2014 12:28	JLR	3/14/2014 12:28	EPA 624
Tetrachloroethene	U	0.50	1.0	ug/L	1	167645	3/14/2014 12:28	JLR	3/14/2014 12:28	EPA 624
Toluene	U	0.50	1.0	ug/L	1	167645	3/14/2014 12:28	JLR	3/14/2014 12:28	EPA 624
Surrogate: 1,2-Dichloroethane-d4 (S)			108 %		79-123	167645	3/14/2014 12:28		3/14/2014 12:28	EPA 624
Surrogate: 4-Bromofluorobenzene (S)			97 %		71-111	167645	3/14/2014 12:28		3/14/2014 12:28	EPA 624
Surrogate: Toluene-d8 (S)			102 %		77-116	167645	3/14/2014 12:28		3/14/2014 12:28	EPA 624

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Reported:
03/19/2014 15:52

East Composite

Sampled: 3/3/2014 9:10:00AM Received: 3/4/2014 4:30:00PM
Lab Sample #: 14C0184-04 Sample Matrix: Water Sampled by: James Hunt Sample Type: Composite

Analyte	Result	Qualifier	MDL	PQL	Units	Dilution	Batch	Prepared	Analyst	Analyzed	Method	Certification
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Pace Analytical - NELAC Certification #: E83079

GC Semivolatiles

Heptachlor	U	0.0064	0.011	ug/L	1	166610	3/6/2014 14:00	JLG	3/8/2014 8:18	EPA 608
Surrogate: Decachlorobiphenyl (S)			39 %	10-127		166610	3/6/2014 14:00		3/8/2014 8:18	EPA 608
Surrogate: Tetrachloro-m-xylene (S)			70 %	53-110		166610	3/6/2014 14:00		3/8/2014 8:18	EPA 608

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Reported:
03/19/2014 15:52

East Duplicate Composite

Sampled: 3/3/2014 9:10:00AM Received: 3/4/2014 4:30:00PM
Lab Sample #: 14C0184-05 Sample Matrix: Water Sampled by: James Hunt Sample Type: Composite

Analyte	Result	Qualifier	MDL	PQL	Units	Dilution	Batch	Prepared	Analyst	Analyzed	Method	Certification
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Pace Analytical - NELAC Certification #: E83079

GC Semivolatiles

Heptachlor	U	0.0063	0.010	ug/L	1	166610	3/6/2014 14:00	JLG	3/8/2014 9:17	EPA 608
Surrogate: Decachlorobiphenyl (S)			38 %	10-127		166610	3/6/2014 14:00		3/8/2014 9:17	EPA 608
Surrogate: Tetrachloro-m-xylene (S)			60 %	53-110		166610	3/6/2014 14:00		3/8/2014 9:17	EPA 608

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Reported:
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GC Semivolatiles - Quality Control Pace Analytical - NELAC Certification #: E83079

Analyte	Result	Qualifiers	MDL	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 166610 - EPA 608 SF											
BLANK (847514)	Source: 847514		Prepared: 03/06/2014 Analyzed: 03/08/2014								
Heptachlor	U		0.006	0.01	ug/L				-		
Surrogate: Decachlorobiphenyl (S)	0.00023				ug/L	0.0005		46	10-127		
Surrogate: Tetrachloro-m-xylene (S)	0.00034				ug/L	0.0005		68	53-110		
LCS (847515)	Source: 847515		Prepared: 03/06/2014 Analyzed: 03/08/2014								
Heptachlor	0.38		0.006	0.01	ug/L	0.5		76	34-111		
Surrogate: Decachlorobiphenyl (S)	0.00029				ug/L	0.0005		58	10-127		
Surrogate: Tetrachloro-m-xylene (S)	0.00037				ug/L	0.0005		75	53-110		
LCS (847516)	Source: 847516		Prepared: 03/06/2014 Analyzed: 03/08/2014								
Surrogate: Decachlorobiphenyl (S)	0.0002				ug/L	0.0005		41	10-127		
Surrogate: Tetrachloro-m-xylene (S)	0.00038				ug/L	0.0005		76	53-110		
MS (847517)	Source: 35128690001		Prepared: 03/06/2014 Analyzed: 03/08/2014								
Heptachlor	0.79		0.012	0.02	ug/L	1	00.012U	79	34-111		
Surrogate: Decachlorobiphenyl (S)	0.00063				ug/L	0.001		63	10-127		

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GC Semivolatiles - Quality Control Pace Analytical - NELAC Certification #: E83079

Analyte	Result	Qualifiers	MDL	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 166610 - EPA 608 SF											
MS (847517)	Source: 35128690001		Prepared: 03/06/2014 Analyzed: 03/08/2014								
Surrogate: Tetrachloro-m-xylene (S)	0.0008				ug/L	0.001		80	53-110		
MSD (847518)	Source: 35128690001		Prepared: 03/06/2014 Analyzed: 03/08/2014								
Heptachlor	0.79		0.012	0.02	ug/L	1	00.012U	79	34-111	0.5	40
Surrogate: Decachlorobiphenyl (S)	0.00063				ug/L	0.001		63	10-127		
Surrogate: Tetrachloro-m-xylene (S)	0.00081				ug/L	0.001		81	53-110		
MS (847519)	Source: 14C0184-04		Prepared: 03/06/2014 Analyzed: 03/08/2014								
Heptachlor	U		0.012	0.02	ug/L				-		
Surrogate: Decachlorobiphenyl (S)	0.00048				ug/L	0.001		48	10-127		
Surrogate: Tetrachloro-m-xylene (S)	0.00084				ug/L	0.001		84	53-110		
MSD (847520)	Source: 14C0184-04		Prepared: 03/06/2014 Analyzed: 03/08/2014								
Heptachlor	U		0.012	0.02	ug/L		00.012U		-		40
Surrogate: Decachlorobiphenyl (S)	0.00063				ug/L	0.001		63	10-127		
Surrogate: Tetrachloro-m-xylene (S)	0.00084				ug/L	0.001		84	53-110		

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GC/MS Volatiles - Quality Control Pace Analytical - NELAC Certification #: E83079

Analyte	Result	Qualifiers	MDL	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 167645 - ***DEFAULT PREP***											
BLANK (854840)	Source: 854840		Prepared & Analyzed: 03/14/2014								
Ethylbenzene	U		0.5	10	ug/L				-		
Tetrachloroethene	U		0.5	10	ug/L				-		
Toluene	U		0.5	10	ug/L				-		
Surrogate: 1,2-Dichloroethane-d4 (S)	420.1				ug/L	40		105	79-123		
Surrogate: 4-Bromofluorobenzene (S)	39				ug/L	40		98	71-111		
Surrogate: Toluene-d8 (S)	400.4				ug/L	40		101	77-116		
LCS (854841)	Source: 854841		Prepared & Analyzed: 03/14/2014								
Ethylbenzene	200.7		0.5	10	ug/L	20		104	37-162		
Tetrachloroethene	160.8		0.5	10	ug/L	20		84	64-148		
Toluene	200.1		0.5	10	ug/L	20		101	47-150		
Surrogate: 1,2-Dichloroethane-d4 (S)	410.2				ug/L	40		103	79-123		
Surrogate: 4-Bromofluorobenzene (S)	390.3				ug/L	40		98	71-111		
Surrogate: Toluene-d8 (S)	400.5				ug/L	40		101	77-116		
MS (854850)	Source: 14C0184-03		Prepared & Analyzed: 03/14/2014								

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GC/MS Volatiles - Quality Control Pace Analytical - NELAC Certification #: E83079

Analyte	Result	Qualifiers	MDL	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 167645 - ***DEFAULT PREP***											
MS (854850)	Source: 14C0184-03		Prepared & Analyzed: 03/14/2014								
Ethylbenzene	190.4		0.5	10	ug/L	20	00.50U	97	37-162		
Tetrachloroethene	150.2		0.5	10	ug/L	20	00.50U	76	64-148		
Toluene	180.7		0.5	10	ug/L	20	00.50U	93	47-150		
Surrogate: 1,2-Dichloroethane-d4 (S)	400.7				ug/L	40		102	79-123		
Surrogate: 4-Bromofluorobenzene (S)	410.1				ug/L	40		103	71-111		
Surrogate: Toluene-d8 (S)	400.5				ug/L	40		101	77-116		
MSD (854851)	Source: 14C0184-03		Prepared & Analyzed: 03/14/2014								
Ethylbenzene	210.3		0.5	10	ug/L	20	00.50U	107	37-162	9	40
Tetrachloroethene	160.7		0.5	10	ug/L	20	00.50U	83	64-148	9	40
Toluene	200.4		0.5	10	ug/L	20	00.50U	102	47-150	9	40
Surrogate: 1,2-Dichloroethane-d4 (S)	390.6				ug/L	40		99	79-123		
Surrogate: 4-Bromofluorobenzene (S)	410.5				ug/L	40		104	71-111		
Surrogate: Toluene-d8 (S)	400.3				ug/L	40		101	77-116		

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Attn: Marister Ruiz

Notes and Definitions


- + Not NELAC Certified
- I Analyte detected between the Laboratory MDL and PQL
- U Analyte analyzed for but Not Detected at or above the MDL
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- V Analyte detected in the sample and the associated preparation blank

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	Document Name: Sample Condition Upon Receipt Form	Document Revised: October 9, 2013
	Document No.: F-FL-C-007 rev. 05	Issuing Authority: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Table Number: _____

Client Name: FPL Inc Project # 35728392

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

☐ Other _____

Tracking # _____

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

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

Thermometer Used T58 Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temperature °C 0.5 (Visual) -0.4 (Correction Factor) 0.1 (Actual)

(Temp should be above freezing to 6°C). If below 0°C, then was sample frozen?

☐ Yes ☐ No

Receipt of samples satisfactory:

☒ Yes ☐ No

Rush TAT requested on COC: _____

If yes, then all conditions below were met:

If no, then mark box & describe issue (use comments area if necessary):

Chain of Custody Present	<input type="checkbox"/>
Chain of Custody Filled Out	<input type="checkbox"/>
Relinquished Signature & Sampler Name COC	<input type="checkbox"/>
Samples Arrived within Hold Time	<input type="checkbox"/>
Sufficient Volume	<input type="checkbox"/>
Correct Containers Used	<input type="checkbox"/>
Containers Intact	<input type="checkbox"/>
Sample Labels match COC (sample IDs & date/time of collection)	<input type="checkbox"/>
	No Labels: <input type="checkbox"/> No Time/Date on Labels: <input type="checkbox"/>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/>
No Headspace in VOA Vials (>6mm):	<input type="checkbox"/>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments):

Project Manager Review: _____

Date: _____

Finished Product Information Only

F.P. Sample ID: _____

Production Code: _____

Date/Time Opened: _____

Number of Unopened Bottles Remaining: _____

Size & Qty of Bottles Received

_____ x 5 Gal

_____ x 2.5 Gal

_____ x 1 Gal

_____ x 1 Liter

_____ x 500 mL

_____ x 250 mL

_____ x Other: _____

Extra Sample in Shed: Yes No

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