Duke Energy®
Rev 07-09-07

Analytical Laboratory
13339 Hagers Ferry Road
Huntersville, NC 28078-7929
McGuire Nuclear Complex – MG03A2
Phone: 704-875-5245 Fax: 704-875-4349

Job Summary Report

Job Number:	10-JUL-0026
Project Name:	NPDES Monthly
Customer Name:	Sue Wallace, JR Wood
Copy To:	Matthew Dorn, Mark Harper, Todd Spade, Tara Thomas
Customer Address:	Miami-Fort
Lab Contact:	Therona James
Lab Contact Phone:	704-875-4795

Report Authorized By: (Printed Name) THERONA JAMES

Report Authorized By: (Signature) Therona James Date: 8/10/10

Data Package

This data package includes analytical results that are applicable only to the samples described in this narrative. An estimation of the uncertainty of measurement for the results in the report is available upon request. This report shall not be reproduced, except in full, without the written consent of the Analytical Laboratory. Please contact the Analytical Laboratory with any questions. The order of individual sections within this report is as follows:

Job Summary Report
Analytical Laboratory Certificate of Analysis
Analytical Laboratory QC Reports (if applicable)
Sub-contracted Laboratory Results
Customer Specific Data Sheets, Reports & Documentation (if applicable)
Customer Database Entries
Test Case Narratives
Chain of Custody (COC)

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Job Summary Report

Certification

The Analytical Laboratory holds the following Certifications:

New York State Department of Health Certification # 11717(NELAC)
North Carolina Department of Health & Human Services Certification # 37804
South Carolina (DHEC) Laboratory ID # 99005
North Carolina (DENR) Certification # 248

Analytical results listed in this report may not be certified by the authorities referenced above. Contact the Analytical Laboratory for definitive information about the certification status of specific methods. The results meet all requirements of NELAC except where deviations are noted in this report.

Data Flags

Any analytical tests or individual analytes within a test flagged with an "X" or a "1" indicate a deviation from the method quality system or quality control requirement.

Calculations

All results are reported on a wet weight basis unless otherwise noted.

Sample ID's & Descriptions:

Sample ID	Plant/Station	Collection Date	Collected By	Sample Description
30010773	MIAMI FORT	7/06/2010	MARK HARPER	OUTFALL 002
30010774	MIAMI FORT	7/06/2010	MARK HARPER	OUTFALL 608

2 TOTAL SAMPLES

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Job Summary Report

Validation of Analytical Data Package

i)	COC and .pdf report are in agreement with sample totals and analyses (compliance programs and procedures).	☑ Yes	☐ No
ii)	All results are less than the laboratory reporting limits.	☐ Yes	☑ No
iii)	All laboratory QA/QC requirements are acceptable.	☑ Yes	☐ No
iv)	NPDES and TCLP results are below permit or regulatory limits respectively.	☑ Yes	☐ No

If **iv)** above is No, document below:

Variable	Result	Permit Limit	Notes

v)	Components of the Job Summary Report arranged in order stipulated on page one.	☑ Yes	☐ No

Indicate components included:

- ☑ Job Summary Report
- ☑ Analytical Laboratory Certificate of Analysis
- ☐ Analytical Laboratory QC Report (if applicable)
- ☑ Sub-contracted Laboratory Results
- ☐ Customer Specific Data Sheets, Reports & Documentation (if applicable)
- ☐ Customer Database Entries
- ☐ Test Case Narratives
- ☑ Chain of Custody

vi) Notes and Additional Information

NA=Not applicable

Certificate of Laboratory Analysis

Duke Energy.

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MIAMI FORT MS_NPDES

Job # 10-JUL-0026

2 Samples
15 Tests
Included in this Report

Lab ID: **30010773** Sample Desc: **OUTFALL 002**

Customer ID: WOOD / WALLACE

Sample Collected: 7/6/2010 09:00:00 Collected By: MARK HARPER Date Initiated in Lab: 7/1/2010 08:47:52

TOTAL DISSOLVED SOLIDS (EPA) Data Posted: 7/9/2010 12:54:55 Method: SM2540D

			Reporting Limit	Flag
TDS	900	mg/L	10	0

Lab ID: **30010774** Sample Desc: **OUTFALL 608**

Customer ID: WOOD / WALLACE

Sample Collected: 7/6/2010 08:25:00 Collected By: MARK HARPER Date Initiated in Lab: 7/1/2010 08:50:34

ALKALINITY (FIXED END POINT 4.5) Data Posted: 7/13/2010 16:36:47 Method: SM2320B

			Reporting Limit	Flag
ALKALINITY	820	mg-CaCO3/L	0.10	0

ARSENIC BY ICP-MS (DIGESTED) Data Posted: 7/15/2010 11:50:28 Method: EPA 200.8/6020

			Reporting Limit	Flag
ARSENIC	< 1.00	ug/L	1.00	0

BARIUM BY ICP-MS (DIGESTED) Data Posted: 7/15/2010 11:50:29 Method: EPA 200.8/6020

			Reporting Limit	Flag
BARIUM	8.90	ug/L	1.00	0

BORON BY ICP (DIGESTED) Data Posted: 7/12/2010 10:07:38 Method: EPA 200.7/6010B

			Reporting Limit	Flag
BORON	283	mg/L	5.00	0

CADMIUM BY ICP-MS (DIGESTED) Data Posted: 7/15/2010 11:50:29 Method: EPA 200.8/6020

			Reporting Limit	Flag
CADMIUM	< 1.00	ug/L	1.00	0

CHROMIUM BY ICP-MS (DIGESTED) Data Posted: 7/15/2010 11:50:29 Method: EPA 200.8/6020

			Reporting Limit	Flag
CHROMIUM	< 1.00	ug/L	1.00	0

COPPER BY ICP-MS (DIGESTED) Data Posted: 7/15/2010 11:50:29 Method: EPA 200.8/6020

			Reporting Limit	Flag
COPPER	1.40	ug/L	1.00	0

IRON BY ICP (DIGESTED) Data Posted: 7/12/2010 10:07:38 Method: EPA 200.7/6010B

			Reporting Limit	Flag
IRON	0.138	mg/L	0.0100	0

LEAD BY ICP-MS (DIGESTED) Data Posted: 7/15/2010 11:50:29 Method: EPA 200.8/6020

			Reporting Limit	Flag
LEAD	< 1.00	ug/L	1.00	0

MANGANESE BY ICP (DIGESTED) Data Posted: 7/12/2010 10:07:38 Method: EPA 200.7/6010B

			Reporting Limit	Flag
MANGANESE	0.334	mg/L	0.00500	0

Certificate of Laboratory Analysis

This report shall not be reproduced, except in full.

MIAMI FORT MS_NPDES

Job # 10-JUL-0026

2 Samples
15 Tests
Included in this Report

Lab ID: **30010774** Sample Desc: **OUTFALL 608**

Customer ID: WOOD / WALLACE

Sample Collected: 7/6/2010 08:25:00 Collected By: MARK HARPER Date Initiated in Lab: 7/1/2010 08:50:34

TOTAL DISSOLVED SOLIDS (EPA)

Data Posted: 7/12/2010 11:06:39 Method: SM2540D

			Reporting Limit	Flag
TDS	28000	mg/L	20	0

TOTAL SUSPENDED SOLIDS (EPA)

Data Posted: 7/12/2010 10:51:17 Method: SM2540D

			Reporting Limit	Flag
TSS	6.0	mg/L	4.0	0

VENDORED ANALYSIS - PRISM LABS

Date Analyzed: 7/23/2010 00:00:00

PRISM TEST COMPLETED CL,F,SO4

ZINC BY ICP-MS (DIGESTED)

Data Posted: 7/15/2010 11:50:29 Method: EPA 200.8/6020

			Reporting Limit	Flag
ZINC	< 2.00	ug/L	2.00	0

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

NC Certification No. 402
SC Certification No. 99012
NC Drinking Water Cert No. 37735

Case Narrative

08/02/2010

Duke Energy Corporation
Jay Perkins
13339 Hagers Ferry Road
Huntersville, NC 28078

Project: Miami-Fort NPDES Monthly
Project No.: 10-JUL-0026
Lab Submittal Date: 07/20/2010
Prism Work Order: 0070556

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

PRISM LABORATORIES, INC.

VP Laboratory Services

Reviewed By

Data Qualifiers Key Reference:

BRL	Below Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
*	Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Sample Receipt Summary

08/02/2010

Prism Work Order: 0070556

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
30010774/Outfall 608	0070556-01	Water	07/06/10	07/20/10

Samples received in good condition at 4.1 degrees C unless otherwise noted.

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PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Laboratory Report

08/02/2010

Duke Energy Corporation
Attn: Jay Perkins
13339 Hagers Ferry Road
Huntersville, NC 28078

Project: Miami-Fort NPDES Monthly

Project No.: 10-JUL-0026
Sample Matrix: Water

Client Sample ID: 30010774/Outfall 608
Prism Sample ID: 0070556-01
Prism Work Order: 0070556
Time Collected: 07/06/10 08:25
Time Submitted: 07/20/10 17:30

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
Anions by Ion Chromatography									
Chloride	**10000**	**mg/L**	**2000**	**21**	**2000**	***300.0**	**7/29/10 10:50**	**RSL**	**P0G0644**
Fluoride	**8.2**	**mg/L**	**1.0**	**0.26**	**10**	***300.0**	**7/28/10 20:46**	**RSL**	**P0G0643**
Sulfate	**9600**	**mg/L**	**2000**	**63**	**2000**	***300.0**	**7/29/10 10:50**	**RSL**	**P0G0644**

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PRISM LABORATORIES, INC. | Full-Service Analytical & Environmental Solutions

Level II QC Report

8/2/10

Duke Energy Corporation
Attn: Jay Perkins
13339 Hagers Ferry Road
Huntersville, NC 28078

Project: Miami-Fort NPDES Monthly

Project No: 10-JUL-0026

Prism Work Order: 0070556
Time Submitted: 7/20/10 5:30:00PM

Anions by Ion Chromatography - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P0G0643 - NO PREP										
Blank (P0G0643-BLK1)				Prepared & Analyzed: 07/28/10						
Fluoride	BRL	0.10	mg/L							
LCS (P0G0643-BS1)				Prepared & Analyzed: 07/28/10						
Fluoride	4.85	0.10	mg/L	5.00		97	90-110			
Batch P0G0644 - NO PREP										
Blank (P0G0644-BLK1)				Prepared & Analyzed: 07/29/10						
Chloride	BRL	1.0	mg/L							
Sulfate	BRL	1.0	mg/L							
LCS (P0G0644-BS1)				Prepared & Analyzed: 07/29/10						
Chloride	4.82	1.0	mg/L	5.00		96	90-110			
Sulfate	4.78	1.0	mg/L	5.00		96	90-110			

Sample Extraction Data

NO PREP

Lab Number	Batch	Initial	Final	Date
0070556-01	P0G0644	25 mL	25 mL	07/29/10
0070556-01	P0G0643	25 mL	25 mL	07/28/10

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Duke Energy

Duke Energy Analytical Laboratory
Mail Code #GO3A2 (Building 7405)
13339 Hagers Ferry Rd
Huntersville, N. C. 28078
(704) 875-5245
Fax: (704) 875-4349

Analytical Laboratory Use Only

LIMS # 10-JUL-0026
Sample Class NPDES
Logged By JA
Date & Time 7/1/10 8:47
Vendor [redacted]
Cooler Temp (C) 1.2
PRISM
ISW01.1913
MR #

SAMPLE PROGRAM
Ground Water ___
NPDES X
Drinking Water ___
UST ___
RCRA Waste ___

Preserv.: 1=HCl, 2=H_2SO_4, 3=HNO_3, 4=Ice, 5=None

19 Page 1 of 1
DISTRIBUTION
ORIGINAL to LAB,
COPY to CLIENT

Customer must Complete

1) Project Name: MIAMI-FORT NPDES Monthly (Monthly Sampling - July 6)
2) Phone No:
3) Client: Miami-Fort - J.R. Wood, Sue Wallace
4) Fax No:
5) Business Unit:
6) Process:
7) Resp. Center To:
8) Project ID:
9) Activity ID:
10) Mail Code:

Customer to complete all appropriate non-shaded areas.

LAB USE ONLY

11 Lab ID	12 Chem Desktop No.	13 Sample Description or ID	14 Collection Information: Date	Time	Signature	17 Comp.	18 Grab	TDS	Cl, F, SO4	As, Fe, Ba, B, Mn Zn, Cd, Pb, Cr, Cu	TSS, Alkalinity
30010773		Outfall 002	7-6-10	0900	Mark Harper		X	1			
30010774	01	Outfall 608	7-6-10	0825	Mark Harper		X	1	1	1	1

Customer to complete appropriate columns to right

Customer to sign & date below - fill out from left to right.

	Date/Time		Date/Time
1) Relinquished By: Mark Harper	7-6-10 0945 HRS	2) Accepted By: [signature]	7/6/10
3) Relinquished By: [signature]	7/7/10 11:00	4) Accepted By: [signature]	7/7/10 11:00
5) Relinquished By: [signature]	7/7/10 13:00	6) Accepted By: [signature]	7/7/10 1300
7) Relinquished By: [signature]	7/20/10 16:40	8) Accepted By: [signature]	7-20-10 1640
9) Seal/Locked By: Mark Harper	7-6-10 0945 HRS	10) Seal/Lock Opened By: [signature]	7/7/10 12:40
11) Seal/Locked By: Relinquished by Dan Moni	7-20-10 1730	12) Seal/Lock Opened By: [signature]	7/20/10 @ 1730

Comments: OUTFALL 002 sampled @ 0900 HRS

Customer, IMPORTANT! Please indicate desired turnaround.

22 Requested Turnaround
14 Days 7/23
*7 Days ___
*48 Hr ___
*Other ___
* Add. Cost Will Apply
0070556

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Duke Energy Analytical Laboratory
Mail Code MGO3A2 (Building 7405)
13339 Hagers Ferry Rd
Huntersville, N. C. 28078
(704) 875-5245
Fax: (704) 875-4349

Analytical Laboratory Use Only
LIMS # 10-JUL-0026 | Sample Class NPDES
Logged By JA | Date & Time 7/1/10 8:47
Vendor [redacted]
Cooler Temp (C) 1.2
PRISM
ISW01.1913
SAMPLE PROGRAM: Ground Water ___ NPDES X Drinking Water ___ UST ___ RCRA Waste ___

[19]Page 1 of 1
DISTRIBUTION
ORIGINAL to LAB, COPY to CLIENT

Customer must Complete

1)Project Name: MIAMI-FORT NPDES Monthly (Monthly Sampling - July 6)
2)Phone No:
3)Client: Miami-Fort - J.R. Wood, Sue Wallace
4)Fax No:
5)Business Unit:
6)Process:
7)Resp. Center To:
8)Project ID:
9)Activity ID:
10)Mail Code:

MR #

Customer to complete all appropriate non-shaded areas.

Customer to complete appropriate columns to right

LAB USE ONLY

[11]Lab ID	[12]Chem Desktop No.	[13]Sample Description or ID	[14]Collection Information Date	Time	Signature	[17]Comp.	[18]Grab	TDS	Cl, F, SO4	As,Fe, Ba, B, Mn Zn, Cd, Pb, Cr, Cu	TSS, Alkalinity
						[16]Analyses Required		4	4	3	4
30010773		Outfall 002	7-6-10	0900	Mark Harper		X	1			
30010774		Outfall 608	7-6-10	0825	Mark Harper		X	1	1	1	1

Preserv.:1=HCl, 2=H_2SO_4, 3=HNO_3, 4=Ice, 5=None

Customer to sign & date below - fill out from left to right.

Relinquished By	Date/Time	Accepted By	Date/Time
1) Mark Harper	7-6-10 0945Hrs	2) UPS	7/6/10
3) UPS	7/7/10 11:00	4) [signature]	7/7/10 11:00
5) [signature]	7/7/10 13:00	6) [signature]	7/7/10 13:00
7) [signature]	7/20/10 16:40	8) [signature]	7-20-10 1640
9) Mark Harper	7-6-10 0945Hrs	10) [signature]	7/7/10 12:40
11) Seal/Locked By	Date/Time	12) Seal/Lock Opened By	Date/Time

Comments: OUTFALL 002 sampled @ 0900Hrs

Customer, IMPORTANT! Please indicate desired turnaround.

[22]Requested Turnaround
14 Days ___
*7 Days ___
*48 Hr ___
*Other ___
* Add. Cost Will Apply