

February 28, 2012

Clive Powell
Miami Dade Water & Sewer-South
8950 SW 232 Street
Miami, FL 33190

RE: Project: 124090
Pace Project No.: 3550615

Dear Clive Powell:

Enclosed are the analytical results for sample(s) received by the laboratory on February 22, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Rossy Guima

rossy.guima@pacelabs.com
Project Manager

Enclosures

cc: Accounts Payable, Miami Dade Water & Sewer
Department



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 124090
Pace Project No.: 3550815

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Arizona Certification #: AZ0735
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH 0216
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
Massachusetts Certification #: M-FL1264
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236
Montana Certification #: Cert 0074
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL765
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
U.S. Virgin Islands Certification: FL NELAC Reciprocity
Virginia Certification #: 00432
Virginia Environmental Certificate #: 460165
Washington Certification #: C955
Wyoming Certification: FL NELAC Reciprocity
Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 124090
Pace Project No.: 3550815

Lab ID	Sample ID	Matrix	Date Collected	Date Received
3550815001	SD-INFLUENT EAST	Water	02/21/12 23:00	02/22/12 17:10
3550615002	SD-INFLUENT WEST	Water	02/21/12 23:00	02/22/12 17:10
3550615003	SD-COMBINED EFFLUENT	Water	02/21/12 23:00	02/22/12 17:10

REPORT OF LABORATORY ANALYSIS

SAMPLE ANALYTE COUNT

Project: 124090
Pace Project No.: 3550615

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3550615001	SD-INFLUENT EAST	EPA 335.4	SOA	1	PASI-O
		EPA 420.4	KDM	1	PASI-O
3550615002	SD-INFLUENT WEST	EPA 335.4	SOA	1	PASI-O
		EPA 420.4	KDM	1	PASI-O
3550615003	SD-COMBINED EFFLUENT	EPA 335.4	SOA	1	PASI-O
		EPA 420.4	KDM	1	PASI-O

REPORT OF LABORATORY ANALYSIS

HITS ONLY

Project: 124090
Pace Project No.: 3550615

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
3550615001	SD-INFLUENT EAST					
EPA 420.4	Phenolics, Total Recoverable	0.039	mg/L	0.010	02/28/12 11:12	
3550615002	SD-INFLUENT WEST					
EPA 420.4	Phenolics, Total Recoverable	0.078	mg/L	0.020	02/28/12 11:17	
3550615003	SD-COMBINED EFFLUENT					
EPA 335.4	Cyanide	0.010	mg/L	0.010	02/24/12 10:06	

REPORT OF LABORATORY ANALYSIS



ANALYTICAL RESULTS

Project: 124090
 Pace Project No.: 3550615

Sample: SD-INFLUENT EAST		Lab ID: 3550615001	Collected: 02/21/12 23:00	Received: 02/22/12 17:10	Matrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
Cyanide	0.0050U	mg/L	0.010	0.0050	1	02/24/12 06:00	02/24/12 10:01	57-12-5	
420.4 Phenolics, Total	Analytical Method: EPA 420.4								
Phenolics, Total Recoverable	0.039	mg/L	0.010	0.0080	1		02/28/12 11:12		



ANALYTICAL RESULTS

Project: 124090
 Pace Project No.: 3550615

Sample: SD-INFLUENT WEST Lab ID: 3550615002 Collected: 02/21/12 23:00 Received: 02/22/12 17:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
Cyanide	0.0050U	mg/L	0.010	0.0050	1	02/24/12 08:00	02/24/12 10:05	57-12-5	
420.4 Phenolics, Total	Analytical Method: EPA 420.4								
Phenolics, Total Recoverable	0.078	mg/L	0.020	0.016	1		02/28/12 11:17		



ANALYTICAL RESULTS

Project: 124090
 Pace Project No.: 3550815

Sample: SD-COMBINED EFFLUENT Lab ID: 3550815003 Collected: 02/21/12 23:00 Received: 02/22/12 17:10 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4								
Cyanide	0.010	mg/L	0.010	0.0050	1	02/24/12 06:00	02/24/12 10:06	57-12-5	
420.4 Phenolics, Total	Analytical Method: EPA 420.4								
Phenolics, Total Recoverable	0.0080U	mg/L	0.010	0.0080	1		02/28/12 10:54		

QUALITY CONTROL DATA

Project: 124090
Pace Project No.: 3550615

QC Batch: WETA/15393 Analysis Method: EPA 335.4
QC Batch Method: EPA 335.4 Analysis Description: 335.4 Cyanide, Total
Associated Lab Samples: 3550615001, 3550615002, 3550615003

METHOD BLANK: 345924 Matrix: Water
Associated Lab Samples: 3550615001, 3550615002, 3550615003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	0.0050U	0.010	02/24/12 09:54	

LABORATORY CONTROL SAMPLE: 345925

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.05	0.053	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 345926 345927

Parameter	Units	3550615001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Cyanide	mg/L	0.0050 U	.05	.05	0.052	0.052	101	102	90-110	.7 20	

QUALITY CONTROL DATA

Project: 124090
Pace Project No.: 3550615

QC Batch: WETA/15440 Analysis Method: EPA 420.4
QC Batch Method: EPA 420.4 Analysis Description: 420.4 Phenolics
Associated Lab Samples: 3550615001, 3550615002, 3550615003

METHOD BLANK: 347443 Matrix: Water
Associated Lab Samples: 3550615001, 3550615002, 3550615003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenolics, Total Recoverable	mg/L	0.0080U	0.010	02/28/12 10:36	

LABORATORY CONTROL SAMPLE: 347444

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	mg/L	.4	0.41	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 347445 347446

Parameter	Units	347445		347446		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		3550612001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result					
Phenolics, Total Recoverable	mg/L	0.12	.8	.8	0.94	0.88	102	95	90-110	7 20



QUALIFIERS

Project: 124090
Pace Project No.: 3550615

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

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

LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 124090
Pace Project No.: 3550615

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3550615001	SD-INFLUENT EAST	EPA 335.4	WETA/15393	EPA 335.4	WETA/15396
3550615002	SD-INFLUENT WEST	EPA 335.4	WETA/15393	EPA 335.4	WETA/15396
3550615003	SD-COMBINED EFFLUENT	EPA 335.4	WETA/15393	EPA 335.4	WETA/15396
3550615001	SD-INFLUENT EAST	EPA 420.4	WETA/15440		
3550615002	SD-INFLUENT WEST	EPA 420.4	WETA/15440		
3550615003	SD-COMBINED EFFLUENT	EPA 420.4	WETA/15440		