



Miami-Dade Water and Sewer Department  
 P. O. Box 330316 • 3071 SW 38th Avenue  
 Miami, Florida 33233-0316  
 T 305-665-7471

April 24, 2007

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Mr. Joseph R. May, P.G.  
 UIC Program Manager  
 Florida Department of Environmental Protection  
 400 North Congress Avenue, Suite 200  
 West Palm Beach, Florida 33401

Ref: Miami-Dade Water and Sewer Department (MDWASD), South District  
 Wastewater Treatment Plant (WWTP), Permits 61787-001-UO through  
 61787-013-UO, and 61787-014-UC through 61787-017-UC

Dear Mr. May:

In accordance FAC 62-550, specific condition 3.k of the referenced operation permits, and specific condition 6.l of the referenced construction permits, attached please find the 2007 sampling results for the annual wastestream analysis of primary, secondary drinking water standards, and minimum criteria. With the exception of Coliform and Nitrogen, Nitrite (as N), the analysis results are below the maximum contaminant levels.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that the qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Please contact me at (786) 552-8116 or Richard M. O'Rourke at (786) 552-8123, if there are any questions regarding this submittal.

Sincerely,

Vicente E. Arrebola, P.E.  
 Assistant Director, Wastewater

VEA/RMO/ja

c: T. Brown, FDEP/SED

Attachment: South District WWTP – 2007 Annual Wastestream Analysis  
 Sampling Results

*Delivering Excellence Every Day*

L07073FDEP-SD-AWA

**KSA Environmental Laboratory Inc.**

April 13, 2007

Miami Dade Water/Sewer (Goulds)

Attn: Clive Powell

8950 SW 232nd Street

Miami, FL 33190

**RE: Annual Plant Sampling**  
**KSA Workorder: Q001359**

Dear Clive Powell,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on 02/22/07 13:20.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

This data has been produced in accordance with NELAC standards. This report shall not be reproduced except in full, without the written approval of the Laboratory.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Paul K. Canevaro  
V.P. Technical Services

Enclosure(s)

## CASE NARRATIVE

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KSA Work Order #: Q001359

Project Name: APS

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### I. Sample Receiving Notes

All samples listed on the Chain of Custody identified with KSA Work Order # Q001359 were received with containers intact, correctly preserved, and at the proper temperature for the requested analyses.

### II. Analytical Data Notes

The analyses were performed in accordance with KSA Environmental Laboratory SOP's and industry-standard methodologies in compliance with FDEP/NELAC criteria. There were no notable problems encountered in the analytical process.

Analysis by methods 549.25, 548.1, 547, 531.1, 525.2, 515.3, and 508.1 were subcontracted to Southern Analytical. Certification Number E84129.

Total Phenols and Sb, As, Pb, Se, Tl analysis were subcontracted to FL Environmental. Certification Number E86006.

Radiological analysis was subcontracted to Florida Radiochemistry. Certification Number E83033.

### III. Quality Control Notes

EPA 608: The LCS for batch 7020651 recovered high for Aldrin and Dieldrin; however, the LCSD as well as the LCS/LCSD RPD were within control limits. Since the target analytes were below MDL and the high recovery would yield a high bias, no further corrective action was necessary.

EPA 410.4: The MS and MSD for batch 7020745 recovered low for COD; however, the LCS and LCSD recovered within acceptable criteria. Sample Combined Effluent was used to prepare the matrix spikes and may be biased low for this analyte. The parent sample is flagged with the FDEP "J" qualifier.

## SAMPLE SUMMARY

	<u>Client ID</u>	<u>Matrix</u>	<u>Sampled</u>	<u>Received</u>
Q001359-01	Combined Effluent	Wastewater	02/22/07 10:17	02/22/07 13:20

Florida Certifications: E86349 & E86616 (Microbiology)

## ANALYTICAL REPORT

Sample ID: Combined Effluent  
 Lab #: Q001359-01  
 Sampled: 02/22/07 10:17

Project: Annual Plant Sampling  
 Work Order #: Q001359  
 Matrix: Wastewater

### Primary DW Volatiles by EPA 524.2

Parameter	Analytical Results	Q	DF	MDL	PQL	Analysis Method	Prep Date/Time	Analysis Date/Time	Analytical Batch
1,1,1-Trichloroethane	0.22 ug/L	U	1	0.22	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
1,1,1-Trichloroethane	0.18 ug/L	U	1	0.18	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
1,1,2,2-Tetrachloroethane	0.36 ug/L	U	1	0.36	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
1,1,2-Trichloroethane	0.30 ug/L	U	1	0.30	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
1,1,2-Trichloroethane	0.36 ug/L	U	1	0.36	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
1,1-Dichloroethane	0.31 ug/L	U	1	0.31	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
1,1-Dichloroethene	0.25 ug/L	U	1	0.25	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
1,1-Dichloroethene	0.25 ug/L	U	1	0.25	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
1,2,4-Trichlorobenzene	0.29 ug/L	U	1	0.29	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
1,2-Dichlorobenzene	0.28 ug/L	U	1	0.28	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
1,2-Dichloroethane	0.23 ug/L	U	1	0.23	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
1,2-Dichloroethane	0.29 ug/L	U	1	0.29	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
1,2-Dichloropropane	0.41 ug/L	U	1	0.41	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
1,2-Dichloropropane	0.25 ug/L	U	1	0.25	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
1,4-Dichlorobenzene	0.97 ug/L		1	0.28	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
2-Chloroethylvinyl ether	2.2 ug/L	U	1	2.2	5.0	624	02/27/07 9:05	02/27/07 14:00	7020758
Acrolein	2.0 ug/L	U	1	2.0	10	624	02/27/07 9:05	02/27/07 14:00	7020758
Acrylonitrile	5.2 ug/L	U	1	5.2	10	624	02/27/07 9:05	02/27/07 14:00	7020758
Benzene	0.36 ug/L	U	1	0.36	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
Benzene	0.30 ug/L	U	1	0.30	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
Bromodichloromethane	0.26 ug/L	U	1	0.26	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
Bromoform	0.41 ug/L	U	1	0.41	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
Bromomethane	0.77 ug/L	U	1	0.77	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
Carbon tetrachloride	0.15 ug/L	U	1	0.15	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
Carbon Tetrachloride	0.24 ug/L	U	1	0.24	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
Chlorobenzene	0.27 ug/L	U	1	0.27	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
Chlorobenzene	0.23 ug/L	U	1	0.23	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
Chlorodibromomethane	0.30 ug/L	U	1	0.30	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
Chloroethane	0.66 ug/L	U	1	0.66	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
<b>Chloroform</b>	2.3 ug/L		1	0.30	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
Chloromethane	0.72 ug/L	U	1	0.72	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
cis-1,2-Dichloroethene	0.32 ug/L		1	0.24	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
cis-1,3-Dichloropropene	0.32 ug/L	U	1	0.32	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
Ethylbenzene	0.32 ug/L	U	1	0.32	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
Ethylbenzene	0.33 ug/L	U	1	0.33	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
Methylene chloride	0.42 ug/L	U	1	0.42	5.0	624	02/27/07 9:05	02/27/07 14:00	7020758
Methylene chloride	0.42 ug/L	U	1	0.42	1.0	524.2	03/02/07 13:41	03/02/07 20:30	7030046
Styrene	0.27 ug/L	U	1	0.27	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
<b>Tetrachloroethene</b>	2.0 ug/L		1	0.34	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
<b>Tetrachloroethene</b>	1.6 ug/L		1	0.37	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046

Florida Certifications: E86349 & E86616 (Microbiology)

## ANALYTICAL REPORT

Sample ID: Combined Effluent  
 Lab #: Q001359-01  
 Sampled: 02/22/07 10:17

Project: Annual Plant Sampling  
 Work Order #: Q001359  
 Matrix: Wastewater

### Priority Pollutant Volatiles by EPA 624

Parameter	Analytical Results	Q	DF	MDL	PQL	Analysis Method	Prep Date/Time	Analysis Date/Time	Analytical Batch
Toluene	0.31 ug/L U		1	0.31	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
Toluene	0.41 ug/L U		1	0.41	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
trans-1,2-Dichloroethene	0.38 ug/L U		1	0.38	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
trans-1,2-Dichloroethene	0.31 ug/L U		1	0.31	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
trans-1,3-Dichloropropene	0.34 ug/L U		1	0.34	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
Trichloroethene	0.38 ug/L		1	0.24	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
Trichloroethene	0.53 ug/L I		1	0.42	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
Vinyl chloride	0.38 ug/L U		1	0.38	0.50	524.2	03/02/07 13:41	03/02/07 20:30	7030046
Vinyl chloride	0.31 ug/L U		1	0.31	1.0	624	02/27/07 9:05	02/27/07 14:00	7020758
Xylenes, Total	0.98 ug/L U		1	0.98	1.5	524.2	03/02/07 13:41	03/02/07 20:30	7030046

### Surrogate Recovery

	% Recovery	% Recovery Limits	
1,2-Dichlorobenzene-d4	86.8 %	0-200	7030046
1,2-Dichloroethane-d4	112 %	72-136	7020758
4-Bromofluorobenzene	83.2 %	80-120	7030046
4-Bromofluorobenzene	97.2 %	79-117	7020758
Dibromofluoromethane	117 %	77-131	7020758
Toluene-d8	98.2 %	78-125	7020758

### Semivolatiles by GC/MS

Parameter	Analytical Results	Q	DF	MDL	PQL	Analysis Method	Prep Date/Time	Analysis Date/Time	Analytical Batch
2,4,6-Trichlorophenol	1.5 ug/L U		1	1.5	1.9	625	02/23/07 9:11	02/26/07 22:13	7020639
2-Chlorophenol	1.4 ug/L U		1	1.4	1.9	625	02/23/07 9:11	02/26/07 22:13	7020639
Anthracene	0.033 ug/L U		1	0.033	0.28	625	02/23/07 9:11	02/26/07 22:13	7020639
Butyl benzyl phthalate	1.9 ug/L U		1	1.9	4.7	625	02/23/07 9:11	02/26/07 22:13	7020639
Dimethyl phthalate	1.6 ug/L U		1	1.6	4.7	625	02/23/07 9:11	02/26/07 22:13	7020639
Naphthalene	0.053 ug/L U		1	0.053	9.4	625	02/23/07 9:11	02/26/07 22:13	7020639
Phenanthrene	0.080 ug/L U		1	0.080	0.19	625	02/23/07 9:11	02/26/07 22:13	7020639
Phenol	1.8 ug/L U		1	1.8	1.9	625	02/23/07 9:11	02/26/07 22:13	7020639

### Surrogate Recovery

	% Recovery	% Recovery Limits	
2,4,6-Tribromophenol	33.2 %	31-139	7020639
2-Fluorobiphenyl	46.0 %	43-119	7020639
2-Fluorophenol	27.4 %	19-108	7020639
Nitrobenzene-d5	50.6 %	33-120	7020639
Phenol-d5	13.2 %	10-117	7020639
Terphenyl-d14	56.8 %	37-129	7020639

Florida Certifications: E86349 & E86616 (Microbiology)

## ANALYTICAL REPORT

Sample ID: Combined Effluent  
 Lab #: Q001359-01  
 Sampled: 02/22/07 10:17

Project: Annual Plant Sampling  
 Work Order #: Q001359  
 Matrix: Wastewater

### Semivolatiles by GC

Parameter	Analytical Results	Q	DF	MDL	PQL	Analysis Method	Prep Date/Time	Analysis Date/Time	Analytical Batch
1,2-Dibromo-3-chloropropane	0.0036 ug/L U		1	0.0036	0.040	504.1	03/06/07 9:08	03/06/07 14:38	7030126
1,2-Dibromoethane (EDB)	0.0053 ug/L U		1	0.0053	0.020	504.1	03/06/07 9:08	03/06/07 14:38	7030126
Aldrin	0.0040 ug/L U		1	0.0040	0.0046	608	02/23/07 11:41	03/05/07 4:31	7020651
Dieldrin	0.0028 ug/L U		1	0.0028	0.0046	608	02/23/07 11:41	03/05/07 4:31	7020651

Surrogate Recovery	% Recovery	% Recovery Limits
1,1,1,2-Tetrachloroethane	114 %	64-125
Decachlorobiphenyl	61.9 %	41-129
Tetrachloro-meta-xylene	80.5 %	42-129

### Metals

Parameter	Analytical Results	Q	DF	MDL	PQL	Analysis Method	Prep Date/Time	Analysis Date/Time	Analytical Batch
Aluminum, Total	0.083 mg/L I, V		1	0.035	0.20	200.7	02/22/07 20:26	02/23/07 17:13	7020630
Barium, Total	0.0074 mg/L I		1	0.00098	0.050	200.7	02/22/07 20:26	02/23/07 17:13	7020630
Beryllium, Total	0.0018 mg/L U		1	0.0018	0.0040	200.7	02/22/07 20:26	02/23/07 17:13	7020630
Cadmium, Total	0.0021 mg/L U		1	0.0021	0.0050	200.7	02/22/07 20:26	02/23/07 17:13	7020630
Chromium, Total	0.0025 mg/L U		1	0.0025	0.0050	200.7	02/22/07 20:26	02/23/07 17:13	7020630
Copper, Total	0.0060 mg/L U		1	0.0060	0.010	200.7	02/22/07 20:26	02/23/07 17:13	7020630
Iron, Total	0.14 mg/L		1	0.029	0.050	200.7	02/22/07 20:26	02/23/07 17:13	7020630
Manganese, Total	0.012 mg/L		1	0.0034	0.0050	200.7	02/22/07 20:26	02/23/07 17:13	7020630
Mercury, Total	0.000060 mg/L I, V		1	0.000060	0.00020	245.1	02/22/07 20:19	02/23/07 15:33	7020629
Nickel, Total	0.0059 mg/L U		1	0.0059	0.010	200.7	02/22/07 20:26	02/23/07 17:13	7020630
Silver, Total	0.00088 mg/L U		1	0.00088	0.0050	200.7	02/22/07 20:26	02/23/07 17:13	7020630
Sodium, Total	71 mg/L		1	0.35	1.0	200.7	02/22/07 20:26	02/23/07 17:13	7020630
Zinc, Total	0.015 mg/L I		1	0.0042	0.020	200.7	02/22/07 20:26	02/23/07 17:13	7020630

### Wet Chemistry

Parameter	Analytical Results	Q	DF	MDL	PQL	Analysis Method	Prep Date/Time	Analysis Date/Time	Analytical Batch
BOD	9.0 mg/L		1	1.0	2.0	405.1	02/23/07 14:30	02/23/07 14:30	7020797
Chloride	100 mg/L		1	0.20	0.40	300.0	02/23/07 18:00	02/23/07 18:00	7020699
COD	73 mg/L J		1	8.4	10	410.4	02/26/07 12:40	02/26/07 12:40	7020745
Color	50 cu		1	2.5	2.5	110.2	02/23/07 10:00	02/23/07 10:00	7020647
Conductivity	857 umhos/cm		1	0.00	0.00	120.1	02/27/07 15:00	02/27/07 15:00	7020764
Cyanide, Total	0.026 mg/L		1	0.0040	0.0050	335.3	02/23/07 11:30	02/25/07 13:40	7020687
Fluoride	0.28 mg/L		1	0.054	0.20	300.0	02/27/07 9:15	02/27/07 9:15	7020746
MBAS	0.11 mg/L		1	0.043	0.075	425.1	02/23/07 15:00	02/23/07 15:00	7020685
Nitrogen, Ammonia (as N)	23 mg/L		20	0.29	0.40	350.1	02/23/07 13:14	02/23/07 16:16	7020657
Nitrogen, Kjeldahl, Total	31 mg/L		50	4.5	12	351.2	02/28/07 10:13	02/28/07 18:20	7030006

Florida Certifications: E86349 & E86616 (Microbiology)

## ANALYTICAL REPORT

Sample ID: Combined Effluent  
 Lab #: Q001359-01  
 Sampled: 02/22/07 10:17

Project: Annual Plant Sampling  
 Work Order #: Q001359  
 Matrix: Wastewater

## Wet Chemistry

Parameter	Analytical Results	Q	DF	MDL	PQL	Analysis Method	Prep Date/Time	Analysis Date/Time	Analytical Batch
Nitrogen, Nitrate (as N)	0.37 mg/L	I	1	0.062	0.50	300.0	02/23/07 18:00	02/23/07 18:00	7020699
Nitrogen, Nitrite (as N)	1.6 mg/L		1	0.021	0.50	300.0	02/23/07 14:00	02/23/07 14:00	7020810
Nitrogen, Organic	8.0 mg/L	I	50	4.5	12	Calc	02/28/07 10:13	02/28/07 18:20	[CALC]
Odor	0.0 t.o.n.	U	1	0.0	0.0	140.1	02/23/07 10:00	02/23/07 10:00	7020701
pH	6.92 s.u.		1	0.00	0.00	150.1	02/23/07 15:00	02/23/07 15:00	7020672
Phosphorus, Total	2.7 mg/L	V	1	0.047	0.10	365.4	02/23/07 7:30	02/26/07 15:38	7020715
Solids, Total Dissolved	450 mg/L		1	8.9	10	160.1	02/26/07 16:30	02/26/07 16:30	7020737
Sulfate	28 mg/L		1	0.14	1.0	300.0	02/23/07 18:00	02/23/07 18:00	7020699

## Subcontract Data

Parameter	Analytical Results	Q	DF	MDL	PQL	Analysis Method	Prep Date/Time	Analysis Date/Time	Analytical Batch
Carbofuran	0.5 ug/L	U	1	0.5		531.1			
Oxamyl	0.5 ug/L	U	1	0.5		531.1			

## Subcontract Data - 508.1

Parameter	Analytical Results	Q	DF	MDL	PQL	Analysis Method	Prep Date/Time	Analysis Date/Time	Analytical Batch
Chlordane	0.05 ug/L	U	1	0.05		508.1	03/01/07 10:00	03/07/07 21:42	
PCB 1016	0.2 ug/L	U	1	0.2		508.1	03/01/07 10:00	03/02/07 5:36	
PCB 1221	0.2 ug/L	U	1	0.2		508.1	03/01/07 10:00	03/02/07 5:36	
PCB 1232	0.2 ug/L	U	1	0.2		508.1	03/01/07 10:00	03/02/07 5:36	
PCB 1242	0.2 ug/L	U	1	0.2		508.1	03/01/07 10:00	03/02/07 5:36	
PCB 1248	0.2 ug/L	U	1	0.2		508.1	03/01/07 10:00	03/02/07 5:36	
PCB 1254	0.2 ug/L	U	1	0.2		508.1	03/01/07 10:00	03/02/07 5:36	
PCB 1260	0.2 ug/L	U	1	0.2		508.1	03/01/07 10:00	03/02/07 5:36	
Total PCBs	0.2 ug/L	U	1	0.2		508.1	03/01/07 10:00	03/02/07 5:36	
Toxaphene	0.5 ug/L	U	1	0.5		508.1	03/01/07 10:00	03/07/07 21:42	

## Subcontract Data - 515.3

Parameter	Analytical Results	Q	DF	MDL	PQL	Analysis Method	Prep Date/Time	Analysis Date/Time	Analytical Batch
2,4,5-TP (Silvex)	0.25 ug/L	U	1	0.25		515.3	02/27/07 9:30	02/28/07 16:28	
2,4-D	1 ug/L	U	1	1		515.3	02/27/07 9:30	02/28/07 16:28	
Dalapon	1 ug/L	U	1	1		515.3	02/27/07 9:30	02/28/07 16:28	
Dinoseb	0.5 ug/L	U	1	0.5		515.3	02/27/07 9:30	02/28/07 16:28	
Pentachlorophenol	0.1 ug/L	U	1	0.1		515.3	02/27/07 9:30	02/28/07 16:28	
Picloram	0.75 ug/L	U	1	0.75		515.3	02/27/07 9:30	02/28/07 16:28	

Florida Certifications: E86349 & E86616 (Microbiology)



## ANALYTICAL REPORT

Sample ID: Combined Effluent  
 Lab #: Q001359-01  
 Sampled: 02/22/07 10:17

Project: Annual Plant Sampling  
 Work Order #: Q001359  
 Matrix: Wastewater

### Subcontract Data - 525.2

Parameter	Analytical Results	Q	DF	MDL	PQL	Analysis Method	Prep Date/Time	Analysis Date/Time	Analytical Batch
Alachlor	0.2 ug/L U		1	0.2		525.2	03/01/07 10:00	03/02/07 5:36	
Atrazine	0.06 ug/L U		1	0.06		525.2	03/01/07 10:00	03/02/07 5:36	
Benzo (a) pyrene	0.1 ug/L U		1	0.1		525.2	03/01/07 10:00	03/02/07 5:36	
Di(2-ethylhexyl)adipate	0.3 ug/L U		1	0.3		525.2	03/01/07 10:00	03/02/07 5:36	
Di(2-ethylhexyl)phthalate	ug/L U		1	ND		525.2	03/01/07 10:00	03/02/07 5:36	
Endrin	0.1 ug/L U		1	0.1		525.2	03/01/07 10:00	03/02/07 5:36	
gamma-BHC	0.06 ug/L U		1	0.06		525.2	03/01/07 10:00	03/02/07 5:36	
Heptachlor	0.08 ug/L U		1	0.08		525.2	03/01/07 10:00	03/02/07 5:36	
Heptachlor epoxide	0.1 ug/L U		1	0.1		525.2	03/01/07 10:00	03/02/07 5:36	
Hexachlorobenzene	0.05 ug/L U		1	0.05		525.2	03/01/07 10:00	03/02/07 5:36	
Hexachlorocyclopentadiene	0.2 ug/L U		1	0.2		525.2	03/01/07 10:00	03/02/07 5:36	
Methoxychlor	0.05 ug/L U		1	0.05		525.2	03/01/07 10:00	03/02/07 5:36	
Simazine	0.07 ug/L U		1	0.07		525.2	03/01/07 10:00	03/02/07 5:36	

### Subcontract Data - 547

Parameter	Analytical Results	Q	DF	MDL	PQL	Analysis Method	Prep Date/Time	Analysis Date/Time	Analytical Batch
Glyphosate	10 ug/L U		1	10		547		03/06/07 20:11	

### Subcontract Data - 548.1

Parameter	Analytical Results	Q	DF	MDL	PQL	Analysis Method	Prep Date/Time	Analysis Date/Time	Analytical Batch
Endothall	20 ug/L U		1	20		548.1	03/01/07 10:00	03/06/07 17:53	

### Subcontract Data - 549.2

Parameter	Analytical Results	Q	DF	MDL	PQL	Analysis Method	Prep Date/Time	Analysis Date/Time	Analytical Batch
Diquat	1 ug/L U		1	1		549.2	02/27/07 9:30	02/28/07 13:21	

### Subcontract Data - 200.8

Parameter	Analytical Results	Q	DF	MDL	PQL	Analysis Method	Prep Date/Time	Analysis Date/Time	Analytical Batch
Antimony	0.0004 mg/L U		1	0.0004	0.0012	200.8	02/27/07 0:00	02/27/07 15:27	
Arsenic	0.0012 mg/L		1	0.00012	0.00036	200.8	02/27/07 0:00	02/27/07 15:27	
Lead	0.0011 mg/L		1	1e-005	3e-005	200.8	02/27/07 0:00	02/27/07 15:27	
Selenium	0.00030 mg/L U		1	0.00030	0.00090	200.8	02/27/07 0:00	02/27/07 15:27	
Thallium	2e-005 mg/L U		1	2e-005	6e-005	200.8	02/27/07 0:00	02/27/07 15:27	

Florida Certifications: E86349 & E86616 (Microbiology)

## ANALYTICAL REPORT

Sample ID: Combined Effluent  
 Lab #: Q001359-01  
 Sampled: 02/22/07 10:17

Project: Annual Plant Sampling  
 Work Order #: Q001359  
 Matrix: Wastewater

**Subcontract Data - 420.2**

Parameter	Analytical Results	Q	DF	MDL	PQL	Analysis Method	Prep Date/Time	Analysis Date/Time	Analytical Batch
Phenols, Total	0.031 mg/L U		1	0.031	0.093	420.2	03/15/07 0:00	03/15/07 16:57	

**Subcontract Data**

Parameter	Analytical Results	Q	DF	MDL	PQL	Analysis Method	Prep Date/Time	Analysis Date/Time	Analytical Batch
Gross Alpha	1.5+/-1.1 pCi/L		1	1.3		900.0	03/01/07 0:00	03/02/07 0:00	
Radium-226	0.2+/-0.1 pCi/L		1	0.1		903.1	03/05/07 0:00	03/13/07 0:00	
Radium-228	0.8+/-0.5 pCi/L U		1	0.8		Ra-05	03/05/07 0:00	03/13/07 0:00	

**QUALITY CONTROL FOR :Q001359**

Analyte	Result	MDL	PQL	Units	%REC	%REC Limits	RPD	RPD Limit
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**Priority Pollutant Volatiles by EPA 624 - Quality Control**

**Blank (7020758-BLK1)**

Prepared & Analyzed: 27-Feb-07

1,1,1-Trichloroethane	0.18	U	0.18	1.0	ug/L			
1,1,2,2-Tetrachloroethane	0.36	U	0.36	1.0	ug/L			
1,1,2-Trichloroethane	0.36	U	0.36	1.0	ug/L			
1,1-Dichloroethane	0.31	U	0.31	1.0	ug/L			
1,1-Dichloroethene	0.25	U	0.25	1.0	ug/L			
1,2-Dichloroethane	0.29	U	0.29	1.0	ug/L			
1,2-Dichloropropane	0.41	U	0.41	1.0	ug/L			
2-Chloroethylvinyl ether	2.2	U	2.2	5.0	ug/L			
Acrolein	2.0	U	2.0	10	ug/L			
Acrylonitrile	5.2	U	5.2	10	ug/L			
Benzene	0.36	U	0.36	1.0	ug/L			
Bromodichloromethane	0.26	U	0.26	1.0	ug/L			
Bromoform	0.41	U	0.41	1.0	ug/L			
Bromomethane	0.77	U	0.77	1.0	ug/L			
Carbon tetrachloride	0.15	U	0.15	1.0	ug/L			
Chlorobenzene	0.23	U	0.23	1.0	ug/L			
Chlorodibromomethane	0.30	U	0.30	1.0	ug/L			
Chloroethane	0.66	U	0.66	1.0	ug/L			
Chloroform	0.30	U	0.30	1.0	ug/L			
Chloromethane	0.72	U	0.72	1.0	ug/L			
cis-1,3-Dichloropropene	0.32	U	0.32	1.0	ug/L			
Ethylbenzene	0.33	U	0.33	1.0	ug/L			
Methylene chloride	0.42	U	0.42	5.0	ug/L			
Tetrachloroethene	0.34	U	0.34	1.0	ug/L			
Toluene	0.31	U	0.31	1.0	ug/L			
trans-1,2-Dichloroethene	0.38	U	0.38	1.0	ug/L			
trans-1,3-Dichloropropene	0.34	U	0.34	1.0	ug/L			
Trichloroethene	0.42	U	0.42	1.0	ug/L			
Vinyl chloride	0.31	U	0.31	1.0	ug/L			
<i>Surrogate: 1,2-Dichloroethane-d4</i>						120		72-136
<i>Surrogate: 4-Bromofluorobenzene</i>						96.5		79-117
<i>Surrogate: Dibromofluoromethane</i>						130		77-131
<i>Surrogate: Toluene-d8</i>						111		78-125

**QUALITY CONTROL FOR :Q001359**

Analyte	Result	MDL	PQL	Units	%REC	%REC Limits	RPD	RPD Limit
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**Priority Pollutant Volatiles by EPA 624 - Quality Control**

LCS (7020758-BS1)		Prepared & Analyzed: 27-Feb-07	
1,1,1-Trichloroethane	102	79-133	
1,1,2,2-Tetrachloroethane	96.5	78-127	
1,1,2-Trichloroethane	95.0	77-123	
1,1-Dichloroethane	99.0	76-127	
1,1-Dichloroethene	99.5	73-142	
1,2-Dichloropropane	93.5	77-125	
Benzene	98.5	80-126	
Chlorobenzene	94.5	82-118	
Chloroform	106	78-126	
Ethylbenzene	94.0	83-122	
Tetrachloroethene	89.5	76-126	
Toluene	93.5	77-123	
trans-1,2-Dichloroethene	98.5	77-126	
Trichloroethene	92.5	79-126	
Vinyl chloride	87.5	67-127	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	99.0	72-136	
<i>Surrogate: 4-Bromofluorobenzene</i>	101	79-117	
<i>Surrogate: Dibromofluoromethane</i>	111	77-131	
<i>Surrogate: Toluene-d8</i>	99.2	78-125	

**Priority Pollutant Volatiles by EPA 624 - Quality Control**

LCS Dup (7020758-BSD1)		Prepared & Analyzed: 27-Feb-07	
1,1,1-Trichloroethane	104	79-133	1.94
1,1,2,2-Tetrachloroethane	98.5	78-127	2.05
1,1,2-Trichloroethane	99.0	77-123	4.12
1,1-Dichloroethane	102	76-127	2.99
1,1-Dichloroethene	101	73-142	1.50
1,2-Dichloropropane	96.5	77-125	3.16
Benzene	101	80-126	2.51
Chlorobenzene	96.5	82-118	2.09
Chloroform	109	78-126	2.79
Ethylbenzene	97.5	83-122	3.66
Tetrachloroethene	93.0	76-126	3.84
Toluene	96.5	77-123	3.16
trans-1,2-Dichloroethene	102	77-126	3.49
Trichloroethene	94.5	79-126	2.14
Vinyl chloride	89.5	67-127	2.26
<i>Surrogate: 1,2-Dichloroethane-d4</i>	100	72-136	
<i>Surrogate: 4-Bromofluorobenzene</i>	101	79-117	
<i>Surrogate: Dibromofluoromethane</i>	109	77-131	
<i>Surrogate: Toluene-d8</i>	99.8	78-125	

Florida Certifications: E86349 & E86616 (Microbiology)

**QUALITY CONTROL FOR :Q001359**

Analyte	Result	MDL	PQL	Units	%REC	%REC Limits	RPD	RPD Limit
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**Priority Pollutant Volatiles by EPA 624 - Quality Control**

Matrix Spike (7020758-MS1)	Source: Q001382-01	Prepared & Analyzed: 27-Feb-07
1,1,1-Trichloroethane		138 70-130
1,1,2,2-Tetrachloroethane		104 70-130
1,1,2-Trichloroethane		114 70-130
1,1-Dichloroethane		136 70-130
1,1-Dichloroethene		140 70-130
1,2-Dichloropropane		114 70-130
Benzene		129 70-130
Chlorobenzene		102 70-130
Chloroform		146 70-130
Ethylbenzene		108 70-130
Tetrachloroethene		106 70-130
Toluene		114 70-130
trans-1,2-Dichloroethene		144 70-130
Trichloroethene		110 70-130
Vinyl chloride		114 70-130
Surrogate: 1,2-Dichloroethane-d4		128 72-136
Surrogate: 4-Bromofluorobenzene		104 79-117
Surrogate: Dibromofluoromethane		128 77-131
Surrogate: Toluene-d8		109 78-125

**Primary DW Volatiles by EPA 524.2 - Quality Control**

Blank (7030046-BLK1)	Prepared & Analyzed: 02-Mar-07
1,1,1-Trichloroethane	0.22 U 0.22 0.50 ug/L
1,1,2-Trichloroethane	0.30 U 0.30 0.50 ug/L
1,1-Dichloroethene	0.25 U 0.25 0.50 ug/L
1,2,4-Trichlorobenzene	0.29 U 0.29 0.50 ug/L
1,2-Dichlorobenzene	0.28 U 0.28 0.50 ug/L
1,2-Dichloroethane	0.23 U 0.23 0.50 ug/L
1,2-Dichloropropane	0.25 U 0.25 0.50 ug/L
1,4-Dichlorobenzene	0.28 U 0.28 0.50 ug/L
Benzene	0.30 U 0.30 0.50 ug/L
Carbon Tetrachloride	0.24 U 0.24 0.50 ug/L
Chlorobenzene	0.27 U 0.27 0.50 ug/L
cis-1,2-Dichloroethene	0.24 U 0.24 0.50 ug/L
Ethylbenzene	0.32 U 0.32 0.50 ug/L
Methylene chloride	0.42 U 0.42 1.0 ug/L
Styrene	0.27 U 0.27 0.50 ug/L
Tetrachloroethene	0.37 U 0.37 0.50 ug/L
Toluene	0.41 U 0.41 0.50 ug/L
trans-1,2-Dichloroethene	0.31 U 0.31 0.50 ug/L
Trichloroethene	0.24 U 0.24 0.50 ug/L
Vinyl chloride	0.38 U 0.38 0.50 ug/L
Xylenes, Total	0.98 U 0.98 1.5 ug/L
Surrogate: 1,2-Dichlorobenzene-d4	85.8 0-200
Surrogate: 4-Bromofluorobenzene	84.5 80-120

**QUALITY CONTROL FOR :Q001359**

Analyte	Result	MDL	PQL	Units	%REC	%REC Limits	RPD	RPD Limit
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**Primary DW Volatiles by EPA 524.2 - Quality Control**

<b>LCS (7030046-BS1)</b>				Prepared & Analyzed: 02-Mar-07				
1,1,1-Trichloroethane					91.8	70-130		
1,1,2-Trichloroethane					93.2	70-130		
1,1-Dichloroethene					91.6	70-130		
1,2,4-Trichlorobenzene					79.6	70-130		
1,2-Dichlorobenzene					90.2	70-130		
1,2-Dichloroethane					90.2	70-130		
1,2-Dichloropropane					93.0	70-130		
1,4-Dichlorobenzene					89.6	70-130		
Benzene					92.6	70-130		
Carbon Tetrachloride					95.6	70-130		
Chlorobenzene					91.4	70-130		
cis-1,2-Dichloroethene					89.6	70-130		
Ethylbenzene					93.4	70-130		
Methylene chloride					90.2	70-130		
Styrene					93.4	70-130		
Tetrachloroethene					92.0	70-130		
Toluene					91.4	70-130		
trans-1,2-Dichloroethene					88.4	70-130		
Trichloroethene					89.6	70-130		
Vinyl chloride					84.6	70-130		
Xylenes, Total					94.7	70-130		
Surrogate: 1,2-Dichlorobenzene-d4					91.2	0-200		
Surrogate: 4-Bromofluorobenzene					90.0	80-120		

**Semivolatiles by GC/MS - Quality Control**

<b>Blank (7020639-BLK1)</b>						Prepared: 23-Feb-07 Analyzed: 26-Feb-07		
2,4,6-Trichlorophenol	1.5	U	1.5	2.0	ug/L			
2-Chlorophenol	1.5	U	1.5	2.0	ug/L			
Anthracene	0.035	U	0.035	0.30	ug/L			
Butyl benzyl phthalate	2.0	U	2.0	5.0	ug/L			
Dimethyl phthalate	1.7	U	1.7	5.0	ug/L			
Naphthalene	0.057	U	0.057	10	ug/L			
Phenanthrene	0.085	U	0.085	0.20	ug/L			
Phenol	2.0	U	2.0	2.0	ug/L			
Surrogate: 2,4,6-Tribromophenol						59.3	31-139	
Surrogate: 2-Fluorobiphenyl						70.2	43-119	
Surrogate: 2-Fluorophenol						63.5	19-108	
Surrogate: Nitrobenzene-d5						75.2	33-120	
Surrogate: Phenol-d5						73.3	10-117	
Surrogate: Terphenyl-d14						75.4	37-129	

Florida Certifications: E86349 & E86616 (Microbiology)

**QUALITY CONTROL FOR :Q001359**

Analyte	Result	MDL	PQL	Units	%REC	%REC Limits	RPD	RPD Limit
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**Semivolatiles by GC/MS - Quality Control**

<b>LCS (7020639-BS1)</b>				Prepared: 23-Feb-07 Analyzed: 26-Feb-07				
2,4,6-Trichlorophenol					60.0	59-137		
2-Chlorophenol					74.0	57-118		
Anthracene					80.8	56-140		
Butyl benzyl phthalate					87.2	75-140		
Dimethyl phthalate					87.8	78-127		
Naphthalene					84.5	39-131		
Phenanthrene					81.0	51-142		
Phenol					79.0	27-126		
Surrogate: 2,4,6-Tribromophenol					58.8	31-139		
Surrogate: 2-Fluorobiphenyl					61.2	43-119		
Surrogate: 2-Fluorophenol					72.0	19-108		
Surrogate: Nitrobenzene-d5					64.4	33-120		
Surrogate: Phenol-d5					69.9	10-117		
Surrogate: Terphenyl-d14					90.2	37-129		

**Semivolatiles by GC/MS - Quality Control**

<b>LCS Dup (7020639-BSD1)</b>				Prepared: 23-Feb-07 Analyzed: 26-Feb-07				
2,4,6-Trichlorophenol					60.8	59-137	1.32	20
2-Chlorophenol					71.5	57-118	3.44	20
Anthracene					80.8	56-140	0.00	20
Butyl benzyl phthalate					94.2	75-140	7.72	20
Dimethyl phthalate					95.2	78-127	8.09	20
Naphthalene					81.5	39-131	3.61	20
Phenanthrene					81.0	51-142	0.00	20
Phenol					80.2	27-126	1.51	20
Surrogate: 2,4,6-Tribromophenol					56.8	31-139		
Surrogate: 2-Fluorobiphenyl					58.4	43-119		
Surrogate: 2-Fluorophenol					49.7	19-108		
Surrogate: Nitrobenzene-d5					71.0	33-120		
Surrogate: Phenol-d5					23.2	10-117		
Surrogate: Terphenyl-d14					96.2	37-129		

**Semivolatiles by GC - Quality Control**

<b>Blank (7020651-BLK1)</b>						Prepared: 23-Feb-07 Analyzed: 04-Mar-07		
Aldrin	0.0043	U	0.0043	0.0050	ug/L			
Dieldrin	0.0030	U	0.0030	0.0050	ug/L			
Surrogate: Decachlorobiphenyl						101	41-129	
Surrogate: Tetrachloro-meta-xylene						95.6	42-129	

**Semivolatiles by GC - Quality Control**

<b>LCS (7020651-BS1)</b>						Prepared: 23-Feb-07 Analyzed: 04-Mar-07		
Aldrin						127	56-120	
Dieldrin						138	51-133	
Surrogate: Decachlorobiphenyl						72.8	41-129	
Surrogate: Tetrachloro-meta-xylene						98.0	42-129	

Florida Certifications: E86349 & E86616 (Microbiology)

**QUALITY CONTROL FOR :Q001359**

Analyte	Result	MDL	PQL	Units	%REC	%REC Limits	RPD	RPD Limit
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**Semivolatiles by GC - Quality Control**

<b>LCS Dup (7020651-BSD1)</b>					Prepared: 23-Feb-07 Analyzed: 05-Mar-07			
Aldrin					106	56-120	18.0	20
Dieldrin					118	51-133	15.6	20
<i>Surrogate: Decachlorobiphenyl</i>					51.2	41-129		
<i>Surrogate: Tetrachloro-meta-xylene</i>					80.8	42-129		

**Semivolatiles by GC - Quality Control**

<b>Blank (7030126-BLK1)</b>					Prepared & Analyzed: 06-Mar-07			
1,2-Dibromo-3-chloropropane	0.0036	U	0.0036	0.040	ug/L			
1,2-Dibromoethane (EDB)	0.0053	U	0.0053	0.020	ug/L			
<i>Surrogate: 1,1,1,2-Tetrachloroethane</i>						105	64-125	

**Semivolatiles by GC - Quality Control**

<b>LCS (7030126-BS1)</b>					Prepared & Analyzed: 06-Mar-07			
1,2-Dibromo-3-chloropropane					88.0	70-130		
1,2-Dibromoethane (EDB)					83.6	70-130		
<i>Surrogate: 1,1,1,2-Tetrachloroethane</i>					103	64-125		

**Semivolatiles by GC - Quality Control**

<b>LCS Dup (7030126-BSD1)</b>					Prepared & Analyzed: 06-Mar-07			
1,2-Dibromo-3-chloropropane					82.0	70-130	7.06	20
1,2-Dibromoethane (EDB)					76.8	70-130	8.48	20
<i>Surrogate: 1,1,1,2-Tetrachloroethane</i>					101	64-125		

**Semivolatiles by GC - Quality Control**

<b>Matrix Spike (7030126-MS1)</b>					Source: Q001453-03 Prepared & Analyzed: 06-Mar-07			
1,2-Dibromo-3-chloropropane					109	70-130		
1,2-Dibromoethane (EDB)					116	70-130		
<i>Surrogate: 1,1,1,2-Tetrachloroethane</i>					103	64-125		

**Metals - Quality Control**

<b>Blank (7020629-BLK1)</b>					Prepared: 22-Feb-07 Analyzed: 23-Feb-07			
Mercury, Total	0.000072	I	0.000060	0.00020	mg/L			

**Metals - Quality Control**

<b>LCS (7020629-BS1)</b>					Prepared: 22-Feb-07 Analyzed: 23-Feb-07			
Mercury, Total					99.1	85-115		

**Metals - Quality Control**

<b>Matrix Spike (7020629-MS1)</b>					Source: Q001353-01 Prepared: 22-Feb-07 Analyzed: 23-Feb-07			
Mercury, Total					96.5	75-125		

**Metals - Quality Control**

<b>Matrix Spike Dup (7020629-MSD1)</b>					Source: Q001353-01 Prepared: 22-Feb-07 Analyzed: 23-Feb-07			
Mercury, Total					87.0	75-125	10.4	20



**QUALITY CONTROL FOR :Q001359**

Analyte	Result	MDL	PQL	Units	%REC	%REC Limits	RPD	RPD Limit
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**Metals - Quality Control**

**Blank (7020630-BLK1)**

Prepared: 22-Feb-07 Analyzed: 23-Feb-07

Aluminum, Total	0.085	I	0.035	0.20	mg/L
Barium, Total	0.00098	U	0.00098	0.050	mg/L
Beryllium, Total	0.0018	U	0.0018	0.0040	mg/L
Cadmium, Total	0.0021	U	0.0021	0.0050	mg/L
Chromium, Total	0.0025	U	0.0025	0.0050	mg/L
Copper, Total	0.0060	U	0.0060	0.010	mg/L
Iron, Total	0.029	U	0.029	0.050	mg/L
Manganese, Total	0.0034	U	0.0034	0.0050	mg/L
Nickel, Total	0.0059	U	0.0059	0.010	mg/L
Silver, Total	0.00088	U	0.00088	0.0050	mg/L
Sodium, Total	0.35	U	0.35	1.0	mg/L
Zinc, Total	0.0042	U	0.0042	0.020	mg/L

**Metals - Quality Control**

**LCS (7020630-BS1)**

Prepared: 22-Feb-07 Analyzed: 23-Feb-07

Aluminum, Total	101	85-115
Barium, Total	100	85-115
Beryllium, Total	106	85-115
Cadmium, Total	105	85-115
Chromium, Total	110	85-115
Copper, Total	104	85-115
Iron, Total	101	85-115
Manganese, Total	96.3	85-115
Nickel, Total	106	85-115
Silver, Total	106	85-115
Sodium, Total	86.9	85-115
Zinc, Total	107	85-115

**Metals - Quality Control**

**Matrix Spike (7020630-MS1)**

Source: Q001306-01

Prepared: 22-Feb-07 Analyzed: 23-Feb-07

Aluminum, Total	106	70-130
Barium, Total	97.0	70-130
Beryllium, Total	106	70-130
Cadmium, Total	106	70-130
Chromium, Total	109	70-130
Copper, Total	107	70-130
Iron, Total	109	70-130
Manganese, Total	95.5	70-130
Nickel, Total	107	70-130
Silver, Total	107	70-130
Sodium, Total	100	70-130
Zinc, Total	113	70-130

Florida Certifications: E86349 & E86616 (Microbiology)

**QUALITY CONTROL FOR :Q001359**

Analyte	Result	MDL	PQL	Units	%REC	%REC Limits	RPD	RPD Limit
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**Metals - Quality Control**

<b>Matrix Spike Dup (7020630-MSD1)</b>		<b>Source: Q001306-01</b>			<b>Prepared: 22-Feb-07 Analyzed: 23-Feb-07</b>			
Aluminum, Total					103	70-130	2.87	20
Barium, Total					96.0	70-130	1.04	20
Beryllium, Total					104	70-130	1.90	20
Cadmium, Total					103	70-130	2.87	20
Chromium, Total					106	70-130	2.79	20
Copper, Total					104	70-130	2.84	20
Iron, Total					119	70-130	8.77	20
Manganese, Total					93.2	70-130	2.44	20
Nickel, Total					104	70-130	2.84	20
Silver, Total					104	70-130	2.84	20
Sodium, Total					800	70-130	156	20
Zinc, Total					110	70-130	2.69	20

**Wet Chemistry - Quality Control**

<b>Blank (7020647-BLK1)</b>		<b>Prepared &amp; Analyzed: 23-Feb-07</b>						
Color	2.5	U	2.5	2.5	cu			

**Wet Chemistry - Quality Control**

<b>LCS (7020647-BS1)</b>		<b>Prepared &amp; Analyzed: 23-Feb-07</b>						
Color						100	80-120	

**Wet Chemistry - Quality Control**

<b>LCS Dup (7020647-BSD1)</b>		<b>Prepared &amp; Analyzed: 23-Feb-07</b>						
Color						100	80-120	0.00 20

**Wet Chemistry - Quality Control**

<b>Duplicate (7020647-DUP1)</b>		<b>Source: Q001359-01</b>			<b>Prepared &amp; Analyzed: 23-Feb-07</b>			
Color	50.0		2.5	2.5	cu			0.00 20

**Wet Chemistry - Quality Control**

<b>Blank (7020657-BLK1)</b>		<b>Prepared &amp; Analyzed: 23-Feb-07</b>						
Nitrogen, Ammonia (as N)	0.015	U	0.015	0.020	mg/L			

**Wet Chemistry - Quality Control**

<b>LCS (7020657-BS1)</b>		<b>Prepared &amp; Analyzed: 23-Feb-07</b>						
Nitrogen, Ammonia (as N)						109	90-110	

**Wet Chemistry - Quality Control**

<b>LCS Dup (7020657-BSD1)</b>		<b>Prepared &amp; Analyzed: 23-Feb-07</b>						
Nitrogen, Ammonia (as N)						108	90-110	0.922 20

**Wet Chemistry - Quality Control**

<b>LCS (7020672-BS1)</b>		<b>Prepared &amp; Analyzed: 23-Feb-07</b>						
pH						100	90-110	

**Wet Chemistry - Quality Control**

<b>LCS Dup (7020672-BSD1)</b>		<b>Prepared &amp; Analyzed: 23-Feb-07</b>						
pH						100	90-110	0.163 20

**Wet Chemistry - Quality Control**

<b>Duplicate (7020672-DUP1)</b>		<b>Source: Q001366-01</b>			<b>Prepared &amp; Analyzed: 23-Feb-07</b>			
pH	7.61		0.00	0.00	s.u.			0.527 20

Florida Certifications: E86349 & E86616 (Microbiology)

**QUALITY CONTROL FOR :Q001359**

Analyte	Result	MDL	PQL	Units	%REC	%REC Limits	RPD	RPD Limit
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**Wet Chemistry - Quality Control**

**Blank (7020685-BLK1)**

Prepared & Analyzed: 21-Feb-07

MBAS	0.043	U	0.043	0.075	mg/L			
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**Wet Chemistry - Quality Control**

**LCS (7020685-BS1)**

Prepared & Analyzed: 21-Feb-07

MBAS						91.2	90-110	
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**Wet Chemistry - Quality Control**

**LCS Dup (7020685-BSD1)**

Prepared & Analyzed: 21-Feb-07

MBAS						102	90-110	11.2 20
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**Wet Chemistry - Quality Control**

**Blank (7020687-BLK1)**

Prepared: 23-Feb-07 Analyzed: 25-Feb-07

Cyanide, Total	0.0040	U	0.0040	0.0050	mg/L			
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**Wet Chemistry - Quality Control**

**LCS (7020687-BS1)**

Prepared: 23-Feb-07 Analyzed: 25-Feb-07

Cyanide, Total						107	80-120	
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**Wet Chemistry - Quality Control**

**LCS Dup (7020687-BSD1)**

Prepared: 23-Feb-07 Analyzed: 25-Feb-07

Cyanide, Total						105	80-120	1.89 20
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**Wet Chemistry - Quality Control**

**Matrix Spike (7020687-MS1)**

Source: Q001359-01

Prepared: 23-Feb-07 Analyzed: 25-Feb-07

Cyanide, Total						97.0	80-120	
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**Wet Chemistry - Quality Control**

**Matrix Spike Dup (7020687-MSD1)**

Source: Q001359-01

Prepared: 23-Feb-07 Analyzed: 25-Feb-07

Cyanide, Total						NR	80-120	NR 20
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**Wet Chemistry - Quality Control**

**Blank (7020699-BLK1)**

Prepared & Analyzed: 23-Feb-07

Chloride	0.20	U	0.20	0.40	mg/L			
Nitrogen, Nitrate (as N)	0.062	U	0.062	0.50	mg/L			
Sulfate	0.14	U	0.14	1.0	mg/L			

**Wet Chemistry - Quality Control**

**LCS (7020699-BS1)**

Prepared & Analyzed: 23-Feb-07

Chloride						100	90-110	
Nitrogen, Nitrate (as N)						105	80-110	
Sulfate						100	90-110	

**Wet Chemistry - Quality Control**

**LCS Dup (7020699-BSD1)**

Prepared & Analyzed: 23-Feb-07

Chloride						101	90-110	0.995 20
Nitrogen, Nitrate (as N)						105	80-110	0.00 20
Sulfate						100	90-110	0.00 20

**Wet Chemistry - Quality Control**

**Blank (7020715-BLK1)**

Prepared: 23-Feb-07 Analyzed: 26-Feb-07

Phosphorus, Total	0.057	I	0.047	0.10	mg/L			
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Florida Certifications: E86349 & E86616 (Microbiology)

**QUALITY CONTROL FOR :Q001359**

Analyte	Result	MDL	PQL	Units	%REC	%REC Limits	RPD	RPD Limit
<b>Wet Chemistry - Quality Control</b>								
<b>LCS (7020715-BS1)</b>					Prepared: 23-Feb-07 Analyzed: 26-Feb-07			
Phosphorus, Total					89.8	80-120		
<b>Wet Chemistry - Quality Control</b>								
<b>LCS Dup (7020715-BSD1)</b>					Prepared: 23-Feb-07 Analyzed: 26-Feb-07			
Phosphorus, Total					102	80-120	12.7	20
<b>Wet Chemistry - Quality Control</b>								
<b>Matrix Spike (7020715-MS1)</b>					Source: Q001355-02 Prepared: 23-Feb-07 Analyzed: 26-Feb-07			
Phosphorus, Total					77.2	80-120		
<b>Wet Chemistry - Quality Control</b>								
<b>Matrix Spike Dup (7020715-MSD1)</b>					Source: Q001355-02 Prepared: 23-Feb-07 Analyzed: 26-Feb-07			
Phosphorus, Total					81.7	80-120	5.66	20
<b>Wet Chemistry - Quality Control</b>								
<b>Blank (7020737-BLK1)</b>					Prepared & Analyzed: 26-Feb-07			
Solids, Total Dissolved	8.9	U	8.9	10	mg/L			
<b>Wet Chemistry - Quality Control</b>								
<b>LCS (7020737-BS1)</b>					Prepared & Analyzed: 26-Feb-07			
Solids, Total Dissolved					100	80-120		
<b>Wet Chemistry - Quality Control</b>								
<b>LCS Dup (7020737-BSD1)</b>					Prepared & Analyzed: 26-Feb-07			
Solids, Total Dissolved					104	80-120	3.92	30
<b>Wet Chemistry - Quality Control</b>								
<b>Duplicate (7020737-DUP1)</b>					Source: Q001376-05 Prepared & Analyzed: 26-Feb-07			
Solids, Total Dissolved	2040		8.9	10	mg/L		1.98	20
<b>Wet Chemistry - Quality Control</b>								
<b>Blank (7020745-BLK1)</b>					Prepared & Analyzed: 26-Feb-07			
COD	8.4	U	8.4	10	mg/L			
<b>Wet Chemistry - Quality Control</b>								
<b>LCS (7020745-BS1)</b>					Prepared & Analyzed: 26-Feb-07			
COD					99.7	90-110		
<b>Wet Chemistry - Quality Control</b>								
<b>LCS Dup (7020745-BSD1)</b>					Prepared & Analyzed: 27-Feb-07			
COD					104	90-110	4.22	20
<b>Wet Chemistry - Quality Control</b>								
<b>Matrix Spike (7020745-MS1)</b>					Source: Q001359-01 Prepared & Analyzed: 26-Feb-07			
COD					58.0	90-110		
<b>Wet Chemistry - Quality Control</b>								
<b>Matrix Spike Dup (7020745-MSD1)</b>					Source: Q001359-01 Prepared & Analyzed: 26-Feb-07			
COD					64.0	90-110	9.84	20

Florida Certifications: E86349 & E86616 (Microbiology)

**QUALITY CONTROL FOR :Q001359**

Analyte	Result	MDL	PQL	Units	%REC	%REC Limits	RPD	RPD Limit	
<b>Wet Chemistry - Quality Control</b>									
<b>Blank (7020746-BLK1)</b>					Prepared & Analyzed: 27-Feb-07				
Fluoride	0.054	U	0.054	0.20	mg/L				
<b>Wet Chemistry - Quality Control</b>									
<b>LCS (7020746-BS1)</b>					Prepared & Analyzed: 27-Feb-07				
Fluoride					96.6	90-110			
<b>Wet Chemistry - Quality Control</b>									
<b>LCS Dup (7020746-BSD1)</b>					Prepared & Analyzed: 27-Feb-07				
Fluoride					96.6	90-110	0.00	20	
<b>Wet Chemistry - Quality Control</b>									
<b>Matrix Spike (7020746-MS1)</b>					Source: Q001279-01		Prepared & Analyzed: 27-Feb-07		
Fluoride					98.4	90-110			
<b>Wet Chemistry - Quality Control</b>									
<b>Matrix Spike Dup (7020746-MSD1)</b>					Source: Q001279-01		Prepared & Analyzed: 27-Feb-07		
Fluoride					98.4	90-110	0.00	20	
<b>Wet Chemistry - Quality Control</b>									
<b>LCS (7020764-BS1)</b>					Prepared & Analyzed: 27-Feb-07				
Conductivity					102	90-110			
<b>Wet Chemistry - Quality Control</b>									
<b>LCS Dup (7020764-BSD1)</b>					Prepared & Analyzed: 27-Feb-07				
Conductivity					102	90-110	0.00	20	
<b>Wet Chemistry - Quality Control</b>									
<b>Duplicate (7020764-DUPI)</b>					Source: Q001359-01		Prepared & Analyzed: 27-Feb-07		
Conductivity	860		0.00	0.00	umhos/cm		0.349	20	
<b>Wet Chemistry - Quality Control</b>									
<b>Blank (7020797-BLK1)</b>					Prepared & Analyzed: 23-Feb-07				
BOD	1.0	U	1.0	2.0	mg/L				
<b>Wet Chemistry - Quality Control</b>									
<b>LCS (7020797-BS1)</b>					Prepared & Analyzed: 23-Feb-07				
BOD					102	85-115			
<b>Wet Chemistry - Quality Control</b>									
<b>LCS Dup (7020797-BSD1)</b>					Prepared & Analyzed: 23-Feb-07				
BOD					97.0	85-115	4.58	20	
<b>Wet Chemistry - Quality Control</b>									
<b>Blank (7020810-BLK1)</b>					Prepared & Analyzed: 23-Feb-07				
Nitrogen, Nitrite (as N)	0.021	U	0.021	0.50	mg/L				
<b>Wet Chemistry - Quality Control</b>									
<b>LCS (7020810-BS1)</b>					Prepared & Analyzed: 23-Feb-07				
Nitrogen, Nitrite (as N)					90.0	90-110			

Florida Certifications: E86349 & E86616 (Microbiology)

**QUALITY CONTROL FOR :Q001359**

Analyte	Result	MDL	PQL	Units	%REC	%REC Limits	RPD	RPD Limit
<b>Wet Chemistry - Quality Control</b>								
<b>LCS Dup (7020810-BSD1)</b>					Prepared & Analyzed: 23-Feb-07			
Nitrogen, Nitrite (as N)					90.0	90-110	0.00	20
<b>Wet Chemistry - Quality Control</b>								
<b>Blank (7030006-BLK1)</b>					Prepared & Analyzed: 28-Feb-07			
Nitrogen, Kjeldahl, Total	0.091	U	0.091	0.25	mg/L			
<b>Wet Chemistry - Quality Control</b>								
<b>LCS (7030006-BS1)</b>					Prepared & Analyzed: 28-Feb-07			
Nitrogen, Kjeldahl, Total					110	90-110		
<b>Wet Chemistry - Quality Control</b>								
<b>LCS Dup (7030006-BSD1)</b>					Prepared & Analyzed: 28-Feb-07			
Nitrogen, Kjeldahl, Total					96.8	90-110	12.8	20
<b>Wet Chemistry - Quality Control</b>								
<b>Matrix Spike (7030006-MS1)</b>					Source: Q001357-01		Prepared & Analyzed: 28-Feb-07	
Nitrogen, Kjeldahl, Total					53.0	90-110		
<b>Wet Chemistry - Quality Control</b>								
<b>Matrix Spike Dup (7030006-MSD1)</b>					Source: Q001357-01		Prepared & Analyzed: 28-Feb-07	
Nitrogen, Kjeldahl, Total					128	90-110	82.9	20

## NOTES AND DEFINITIONS

V	Indicates the analyte was detected in both the sample and the associated method blank. The value in the method blank is not subtracted from the associated samples.
U	Indicates the compound was analyzed for but not detected.
J	Estimated value. See accompanying case narrative for a complete description.
I	The reported value is between the laboratory method detection limit and the reporting limit.
#	Quality control recovered outside acceptance criteria.
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
DF	Dilution Factor
%REC	Percent Recovery
RPD	Relative Percent Difference

2001359

CHAIN OF CUSTODY RECORD

**KSA** KSA Environmental Laboratory, Inc.  
 10200 USA Today Way - Miramar, Florida 33025  
 Phone: (954) 431-4550 Fax: (954) 431-1988  
 Work Order #: \_\_\_\_\_ of \_\_\_\_\_  
 Page \_\_\_\_\_ of \_\_\_\_\_  
 NELAC / FDOT #: E86349

Client Name: Miami Dade Water & Sewer Dept Phone: 305 259 8500  
 Client Address: 850 SW 232 ST Site Location: SOUTH DISTRICT WWTTP

Project Contact: Clive Powell  
 Project Number/Name: Annual Lead Sampling  
 Sampled By (Print): AL PAPER  
 Sampler's Signature: [Signature]

SAMPLE ID	DATE	TIME	COLLECTED	ANALYSIS REQUESTED	MATRIX CODE	PRESERVATION CODE	LAB NO.
1				CONDUCTIVITY			
2				PRIORITY POLLUTANTS			
3				OIL & GREASE			
4				TOTAL COLIFORMS			
5				ATOXIN (GAL)			
6				DRINKING WATER			
7				WATER STRONG			
8				WATER STRONG			
9				MINIMUM CHLORINE			
10				CHLORINE			
11							

Special Instructions & Comments:  
 Enter Preservation code: ←

Requested by: Clive Powell Date Time: \_\_\_\_\_  
 Collected by: [Signature] Date Time: \_\_\_\_\_  
 Analyzed by: [Signature] Date Time: \_\_\_\_\_  
 Approved by: [Signature] Date Time: \_\_\_\_\_