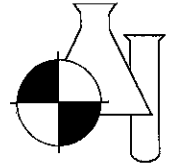


BENCHMARK

EnviroAnalytical Inc.



FDOH Certification #E84167

Charlotte County Utilities
25550 Harbor View Rd., Unit 1
Port Charlotte, FL 33980

Sandra Lavoie

ANALYTICAL TEST REPORT

THESE RESULTS MEET NELAC STANDARDS

INORGANIC ANALYSIS

REPORT NUMBER: 17010785 - 001
SYSTEM NAME: BS-3 Pri/Sec & Ann Reclaimed
SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
	TOTAL KJELDAHL NITROGEN	MG/L	2.02		351.2	0.05	01/27/2017	10:26	E84167
	TOTAL NITROGEN	MG/L	5.57		353+351	0.05	01/27/2017	10:26	E84167

INORGANIC ANALYSIS

62-550.310 (1)

REPORT NUMBER: 17010785 - 001
SYSTEM NAME: BS-3 Pri/Sec & Ann Reclaimed
SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
1040	NITRATE NITROGEN	MG/L	3.55		353.2	0.004	01/24/2017	16:06	E84167
1041	NITRITE NITROGEN	MG/L	0.003	U	SM4500NO2B	0.003	01/24/2017	16:06	E84167
1038	NITRATE+NITRITE AS N	MG/L	3.55		353.2	0.004	01/25/2017	12:36	E84167
1005	ARSENIC	UG/L	0.689	U	SM3113B	0.689	01/26/2017	11:29	E84167
1010	BARIUM	UG/L	9.00		200.7	2	01/25/2017	12:00	E84167
1015	CADMIUM	UG/L	0.900	U	200.7	0.900	01/25/2017	11:58	E84167
1020	CHROMIUM	UG/L	2	U	200.7	2	01/25/2017	12:00	E84167
1025	FLUORIDE	MG/L	0.122		300.0	0.030	01/27/2017	12:34	E84167
1030	LEAD	UG/L	0.670	U	SM3113B	0.670	01/25/2017	13:45	E84167
1035	MERCURY	UG/L	0.198	U	245.1	0.198	01/27/2017	12:01	E84167
1036	NICKEL	UG/L	2.80	I	200.7	1.18	01/25/2017	12:00	E84167
1045	SELENIUM	UG/L	1.61	I	SM3113B	1.57	02/01/2017	16:11	E84167

INORGANIC ANALYSIS

62-550.310 (1)

REPORT NUMBER: 17010785 - 001

SYSTEM NAME: BS-3 Pri/Sec & Ann Reclaimed

SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
1052	SODIUM	MG/L	143		200.7	0.034	01/25/2017	12:00	E84167
1074	ANTIMONY	UG/L	2.26	U	SM3113B	2.26	01/27/2017	15:22	E84167
1075	BERYLLIUM	UG/L	0.078	U	200.7	0.078	01/25/2017	12:00	E84167
1085	THALLIUM	UG/L	0.981	U	200.9	0.981	01/31/2017	10:57	E84167

SYNTHETIC ORGANICS

62-550.310 (4) (b)

REPORT NUMBER: 17010785 - 001

SYSTEM NAME: BS-3 Pri/Sec & Ann Reclaimed

SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
2005	ENDRIN	UG/L	0.0068	U	508.1	0.0068	02/09/2017	03:21	E83079
2010	GAMMA-BHC (LINDANE)	UG/L	0.0029	U	508.1	0.0029	02/09/2017	03:21	E83079
2015	METHOXYCHLOR	UG/L	0.0490	C7U	508.1	0.0490	02/09/2017	03:21	E83079
2020	TOXAPHENE	UG/L	0.5900	U	508.1	0.5900	02/09/2017	03:21	E83079
2031	DALAPON	UG/L	2.8		515.3	0.8900	02/09/2017	10:36	E83079
2032	DIQUAT	UG/L	0.3000	U	549.2	0.3000	02/01/2017	06:30	E83079
2033	ENDOTHALL	UG/L	4.3000	U	548.1	4.3000	01/28/2017	08:28	E83079
2034	GLYPHOSATE	UG/L	4.2000	U	547	4.2000	02/02/2017	08:18	E83079
2035	DI(2-ETHYLHEXYL)ADIPATE	UG/L	0.3700	U	525.2	0.3700	02/08/2017	17:42	E83079
2036	OXAMYL	UG/L	0.5500	C13U	531.1	0.5500	02/07/2017	13:30	E83079
2037	SIMAZINE	UG/L	0.0670	U	508.1	0.0670	02/09/2017	03:21	E83079
2039	DI(2-ETHYLHEXYL)PHTHALATE	UG/L	22.2		525.2	2.7000	02/09/2017	15:18	E83079
2040	PICLORAM	UG/L	0.0940	U	515.3	0.0940	02/09/2017	10:36	E83079
2041	DINOSEB	UG/L	0.1600	U	515.3	0.1600	02/09/2017	10:36	E83079
2042	HEXACHLOROCYCLOPENTADIENE	UG/L	0.0310	U	508.1	0.0310	02/09/2017	03:21	E83079
2046	CARBOFURAN	UG/L	0.3200	U	531.1	0.3200	02/07/2017	13:30	E83079
2050	ATRAZINE	UG/L	0.0610	U	508.1	0.0610	02/09/2017	03:21	E83079
2051	ALACHLOR	UG/L	0.0340	U	508.1	0.0340	02/09/2017	03:21	E83079
2063	2,3,7,8-TCDD	PG/L	0.677	U	1613B	0.677	02/06/2017		E87688
2065	HEPTACHLOR	UG/L	0.0120	U	508.1	0.0120	02/09/2017	03:21	E83079
2067	HEPTACHLOR EPOXIDE	UG/L	0.0029	U	508.1	0.0029	02/09/2017	03:21	E83079
2105	2,4-D	UG/L	0.0810	U	515.3	0.0810	02/09/2017	10:36	E83079

SYNTHETIC ORGANICS

62-550.310 (4) (b)

REPORT NUMBER: 17010785 - 001

SYSTEM NAME: BS-3 Pri/Sec & Ann Reclaimed

SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
2110	2,4,5-TP (SILVEX)	UG/L	0.1600	U	515.3	0.1600	02/09/2017	10:36	E83079
2274	HEXACHLOROBENZENE	UG/L	0.0180	C7U	508.1	0.0180	02/09/2017	03:21	E83079
2306	BENZO(A)PYRENE	UG/L	0.0120	U	525.2	0.0120	02/08/2017	17:42	E83079
2326	PENTACHLOROPHENOL	UG/L	0.0300	U	515.3	0.0300	02/09/2017	10:36	E83079
2383	PCB, TOTAL	UG/L	0.0770	U	508.1	0.0770	02/09/2017	03:21	E83079
2931	1,2-DIBROMO-3-CHLOROPROPANE	UG/L	0.014	U	504.1	0.014	01/25/2017	13:59	E84167
2946	ETHYLENE DIBROMIDE	UG/L	0.01	U	504.1	0.01	01/25/2017	13:59	E84167
2959	CHLORDANE (TECHNICAL)	UG/L	0.0450	U	508.1	0.0450	02/09/2017	03:21	E83079

RADIONUCLIDES

62-550.310 (6)

REPORT NUMBER: 17010785 - 001

SYSTEM NAME: BS-3 Pri/Sec & Ann Reclaimed

SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
	RADIUM-226/228 COMBINED	PCI/L	1.0	U	903.1/Ra-05	1.0	02/10/2017	11:37	E83033
4000	GROSS ALPHA	PCI/L	5.1+/-1.9		900.0	2.3	02/07/2017	15:37	E83033
4020	RADIUM-226	PCI/L	0.6+/-0.2		903.1	0.2	02/10/2017	11:37	E83033
4030	RADIUM-228	PCI/L	1.0	U	Ra-05	1.0	02/09/2017	12:14	E83033

SECONDARY CONTAMINANTS

62-550.320

REPORT NUMBER: 17010785 - 001

SYSTEM NAME: BS-3 Pri/Sec & Ann Reclaimed

SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
	COLOR PH	UNITS	7.26		SM4500H+B		01/25/2017	10:12	E84167
1002	ALUMINUM	UG/L	33.1	I	200.7	23	01/25/2017	12:00	E84167
1017	CHLORIDE	MG/L	242		300.0	0.353	01/30/2017	12:28	E84167
1022	COPPER	UG/L	4.30	I	200.7	4	01/25/2017	12:00	E84167
1025	FLUORIDE	MG/L	0.122		300.0	0.030	01/27/2017	12:34	E84167
1028	IRON	UG/L	57.9	I	200.7	29	01/25/2017	12:00	E84167
1032	MANGANESE	UG/L	34.6		200.7	0.98	01/25/2017	12:00	E84167

SECONDARY CONTAMINANTS

62-550.320

REPORT NUMBER: 17010785 - 001

SYSTEM NAME: BS-3 Pri/Sec & Ann Reclaimed

SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
1050	SILVER	UG/L	0.500	I	200.7	0.5	01/25/2017	12:00	E84167
1055	SULFATE	MG/L	40.5		300.0	0.339	01/30/2017	12:28	E84167
1095	ZINC	UG/L	60.1		200.7	1.4	01/25/2017	12:00	E84167
1905	COLOR, APPARENT	PCU	7.5		SM2120B	2.5	01/25/2017	10:12	E84167
1930	TOTAL DISSOLVED SOLIDS	MG/L	536		SM2540C	7.26	01/30/2017	14:15	E84167
2905	SURFACTANTS	MG/L	0.090	I	SM5540C	0.03	01/25/2017	09:00	E84167

INORGANIC ANALYSIS

62-550.310 (1)

REPORT NUMBER: 17010785 - 002

SYSTEM NAME: BS-3 Pri/Sec & Ann Reclaimed

SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
1024	CYANIDE	MG/L	0.005	U	335.4	0.005	01/25/2017	15:21	E84167

DISINFECTION BYPRODUCTS

62-550.310 (3)

REPORT NUMBER: 17010785 - 002

SYSTEM NAME: BS-3 Pri/Sec & Ann Reclaimed

SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
2941	CHLOROFORM	UG/L	35.7		624	0.5	01/26/2017	12:49	E84167
2942	BROMOFORM	UG/L	3.83		624	0.5	01/26/2017	12:49	E84167
2943	DICHLOROBROMOMETHANE	UG/L	39.1		624	0.5	01/26/2017	12:49	E84167
2944	DIBROMOCHLOROMETHANE	UG/L	26.9		624	0.5	01/26/2017	12:49	E84167
2950	TRIHALOMETHANES, TOTAL	UG/L	106		624	0.5	01/26/2017	12:49	E84167

VOLATILE ORGANICS

62-550.310 (4) (a)

REPORT NUMBER: 17010785 - 002

SYSTEM NAME: BS-3 Pri/Sec & Ann Reclaimed

SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
2378	1,2,4-TRICHLOROBENZENE	UG/L	0.5	U	624	0.5	01/26/2017	12:49	E84167

VOLATILE ORGANICS

62-550.310 (4) (a)

REPORT NUMBER: 17010785 - 002

SYSTEM NAME: BS-3 Pri/Sec & Ann Reclaimed

SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
2380	CIS-1,2-DICHLOROETHENE	UG/L	0.5	U	624	0.5	01/26/2017	12:49	E84167
2955	XYLENES	UG/L	0.5	U	624	0.5	01/26/2017	12:49	E84167
2964	METHYLENE CHLORIDE	UG/L	0.5	U	624	0.5	01/26/2017	12:49	E84167
2968	O-DICHLOROBENZENE	UG/L	0.5	U	624	0.5	01/26/2017	12:49	E84167
2969	PARA-DICHLOROBENZENE	UG/L	0.5	U	624	0.5	01/26/2017	12:49	E84167
2976	VINYL CHLORIDE	UG/L	0.5	U	624	0.5	01/26/2017	12:49	E84167
2977	1,1-DICHLOROETHENE	UG/L	0.5	U	624	0.5	01/26/2017	12:49	E84167
2979	TRANS-1,2-DICHLOROETHENE	UG/L	0.5	U	624	0.5	01/26/2017	12:49	E84167
2980	1,2-DICHLOROETHANE	UG/L	0.5	U	624	0.5	01/26/2017	12:49	E84167
2981	1,1,1-TRICHLOROETHANE	UG/L	0.5	U	624	0.5	01/26/2017	12:49	E84167
2982	CARBON TETRACHLORIDE	UG/L	0.5	U	624	0.5	01/26/2017	12:49	E84167
2983	1,2-DICHLOROPROPANE	UG/L	0.5	U	624	0.5	01/26/2017	12:49	E84167
2984	TRICHLOROETHENE	UG/L	0.5	U	624	0.5	01/26/2017	12:49	E84167
2985	1,1,2-TRICHLOROETHANE	UG/L	0.5	U	624	0.5	01/26/2017	12:49	E84167
2987	TETRACHLOROETHENE	UG/L	0.5	U	624	0.5	01/26/2017	12:49	E84167
2989	MONOCHLOROBENZENE	UG/L	0.5	U	624	0.5	01/26/2017	12:49	E84167
2990	BENZENE	UG/L	0.5	U	624	0.5	01/26/2017	12:49	E84167
2991	TOLUENE	UG/L	0.5	U	624	0.5	01/26/2017	12:49	E84167
2992	ETHYLBENZENE	UG/L	0.5	U	624	0.5	01/26/2017	12:49	E84167
2996	STYRENE	UG/L	0.5	U	624	0.5	01/26/2017	12:49	E84167

SYNTHETIC ORGANICS

62-550.310 (4) (b)

REPORT NUMBER: 17010785 - 002

SYSTEM NAME: BS-3 Pri/Sec & Ann Reclaimed

SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
2931	1,2-DIBROMO-3-CHLOROPROPANE	UG/L	0.014	U	504.1	0.014	01/25/2017	14:37	E84167

SECONDARY CONTAMINANTS

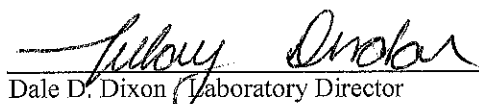
62-550.320

REPORT NUMBER: 17010785 - 002

SYSTEM NAME: BS-3 Pri/Sec & Ann Reclaimed

SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
1925	PH	UNITS	7.01	Q	SM4500H+B		01/24/2017	15:29	E84167


Dale D. Dixon Laboratory Director

02/21/2017

Date

Tulay Tarrisever / QC Officer

Deborah A. Murphy / Project Manager

DATA QUALIFIERS THAT MAY APPLY:

I = Reported value is between the laboratory MDL and the PQL. PQL = 4 x MDL.

J = Estimated value.

J3 = Estimated value. Quality control criteria for precision or accuracy not met.

J4 = Estimated value. Sample matrix interference suspected.

Q = Sample held beyond accepted hold time.

U = Analyte analyzed but not detected at the value indicated.

V = Analyte detected in sample and method blank. Results for this analyte in associated samples may be biased high. Standard,

Duplicate, and Spike values are within control limits. Reported data are usable.

NOTES:

ND = Not Detected at or above adjusted reporting limit.

MBAS calculated as LAS; molecular weight = 340

X = Value exceeds MCL.

C7 = Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

C13 = The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

Surrogates method 525.2 (Perylen-d12) = Estimated value. Surrogate recovery outside laboratory control limits. Re-extraction or re-analysis could not be performed due to insufficient sample amount.

For questions and comments regarding these results, please contact us at (941) 723-9986.

Results relate only to the samples.

Benchmark EnviroAnalytical, Inc.

1711 Twelfth Street East
 Palmetto, FL 34221
 (941) 723-9986
 (941) 723-6061 fax
 WWW.Benchmark.com

Client: **Charlotte County Utilities**
 25550 Harbor View Rd. Unit 1
 Port Charlotte, FL 33980
 Phone: 941-764-4593 Sandra Lavoie
 Fax: 941-627-4603
 Sandra.Lavoie@charlottefl.com

Chain of Custody Form: Burnt Store Primary & Secondary Analysis Annual Reclaimed (Jan.)

Method of Discharge: **Sample Matrix²: WW**

Laboratory Submission #: **17010785**

Sample ID	Sample Type ¹	Sb, As, Ba, Be, Cd, Cr, Pb, Hg, Ni, Se, Na, Tl, Al, Cu, Fe, Mn, Ag, Zn	Dioxin	Gross Alpha Rad 226 Rad 228 Radium 226/228 Combined	NO ₃ -NO ₂ (353.2) NO ₃ (Calc.) TKN TN	SOC's (Pesticides and PCB's)							MBAS (Foaming Agents)	Cl SO ₄ TDS Color/pH Fluoride NO ₂ (SM4500)	VOCs (21) THM's ***	pH ****	DBCP 504.1	CN	Lab ID #
						Carbamates 531.1	Pesticides 508	EDB/DBCP 504.1	Herbicides 515.3	Semivolatile 525.2	Glyphosate 547	Endothal 548.1							
BS-3	24hr Comp.	Start Date & Time: 0807 1-23-17																1	
		End Date & Time: 0730 1-24-17																	
		G																	
Date & Time: 1-24-17 0740																2			

*Add 3 drops of HCl to each bottle.
 ** Add entire vial of HCl to sample bottle.
 *** Fill all 3 vials completely; there can be NO AIR BUBBLES.
 ****pH received after 15 minute hold time, ok to run analysis.

- "Sample Type" is used to indicate whether the sample was a grab (G) or whether it was a composite (C).
- "Sample Matrix" is used to indicate whether the sample is being discharged to drinking water (DW), groundwater (GW), surface water (SW), fresh surface water (FSW), saline surface water (SSW), soil, sediment (SDMNT), or sludge (SLDG).
- "Container Type" is used to indicate whether the container is plastic (P) or glass (G).
- Sample must be refrigerated or stored in wet ice after collection. The temperature during storage should be less than or equal to 6°C (42.8°F). Under "Preservative," list any preservatives that were added to the sample container.

- Instructions:**
- Each bottle has a label identifying sample ID, premeasured preservative contained in the bottle, sample type, client ID, and parameters for analysis.
 - The following information should be added to each bottle label after collection with permanent black ink: date and time of collection, sampler's name or initials, and any field number or ID.
 - All bottles not containing preservative may be rinsed with appropriate sample prior to collection.
 - The client is responsible for documentation of the sampling event. Please note special sampling events on the sample custody form.

Laboratory Sample Acceptability
 pH < 2 BEA Temperature:
 BEAS Temperature: 26°C

1	Collector: Pat Suggs	Date: 1-24-17	Time: 8:10	Received By: D Broom	Date: 1-24-17	Time: 8:20
2	Received By: D Broom	Date: 1-24-17	Time: 0916	Received By: Elly Mc	Date: 1/24/17	Time: 0916
3	Received By: Elly Mc	Date: 01/24/17	Time: 1140	Received By: Army Housier	Date: 1/24/17	Time: 1140
4	Received By: Army Housier	Date: 1/24/17	Time: 1200	Received By: [Signature]	Date: 1/24/17	Time: 1200

01/24/17 of 10

INTERLABORATORY SAMPLE TRANSMITTAL FORM

Benchmark EnviroAnalytical, Inc.
 1711 12th Street East
 Palmetto, FL 34221
 (941) 723-9986
 (941) 723-6061 fax

Office QC Check: _____
 Bottle Check: _____

Date:	01/24/17		
# of Samples:	1	Total # of Bottles:	1
Method of Shipment:	Courier		
Subcontract Laboratory:	Florida Radiochemistry 5456 Hoffner Ave. #201 Orlando, FL 32812 Phone: 407-382-7733 Fax: 407-382-7744		
Page	1	of	1

10 BUSINESS DAY T.A.T. PLEASE

Laboratory Submission #	Collection		Sample Matrix*	Collection Method**	Preservative	Container			Parameters	Field Conductivity μ s/cm
	Date	Time				Qty	Capacity	Type***		
17010785-1	01/24/17	0730	WW	24 Hr. Comp.	1:4 HNO ₃	1	2 Qt	P	Gross Alpha, Radium 226 & 228	

* Sample Matrix abbreviations: Groundwater (GW), Surface Water (SW), Saline Surface Water (SSW), Fresh Surface Water (FSW), Drinking Water (DW), Sludge (Slidg), Solid (Sol), Soil (Soil), Domestic Effluent (Dom Eff), Industrial Effluent (Ind Eff).
 ** Sample Method abbreviations: Grab (G), Composite (C), 24 Hour Composite (24HR Comp.).
 *** Container Type abbreviations: Plastic (P), Glass (G).

Relinquished By: (Benchmark)	Sign Name:		Date:		Received By:		Date:	2-1-17
	Print Name:		Annah Jensen	Time:				MIKE NAMMAM
Relinquished By:	Sign Name:		Date:		Received By:		Date:	
	Print Name:		Time:				Time:	

INTERLABORATORY SAMPLE TRANSMITTAL FORM

Benchmark EnviroAnalytical, Inc.
 1711 12th Street East
 Palmetto, FL 34221
 (941) 723-9986
 (941) 723-6061 fax
 www.Benchmarkea.com
 Office QC Check: _____
 Bottle Check: _____

Date:	01/24/17		
# of Samples:	1	Total # of Bottles:	9
Method of Shipment:	Hand Delivery		
Subcontract Laboratory:	E83079 - Pace Analytical Service Inc; 8 East Tower Circle; Ormond Beach, FL 32175 Joe Vodrik; 1-800-966-5668		
Page	1	of	1

Laboratory Submission #	Collection		Sample Matrix*	Collection Method**	Preservative	Container			Parameters SOC's (Pesticides and PCB's)	Comments
	Date	Time				Qty	Capacity	Type***		
17010785-1	01/24/17	0730	WW	24 Hr. Comp.	MCAA Na ₂ S ₂ O ₃	2	40mL	G	Carabamates (531.1)	*
					Na ₂ S ₂ O ₃ HCl	1	1 L	G	Pesticides (508)	*
					Na ₂ S ₂ O ₃	1	250mL	G	Herbicides (515.3)	*
					Na ₂ S ₂ O ₃ HCl	1	1 L	G	Semivolatiles (525.2)	*
					Na ₂ S ₂ O ₃	2	40mL	G	Glyphosate (547)	*
					Na ₂ S ₂ O ₃	1	500mL	G	Endothall (548.1)	*
					Na ₂ S ₂ O ₃ , H ₂ SO ₄	1	1 L	P	Diquat (549.2)	*
* Do NOT Dilute sample, Call Dale Dixon for OK first!										

* Sample Matrix abbreviations: Groundwater (GW), Surface Water (SW), Saline Surface Water (SSW), Fresh Surface Water (FSW), Drinking Water (DW), Sludge (Slgd), Solid (Sol), Soil (Soil), Domestic Effluent (Dom Eff), Industrial Effluent (Ind Eff).

** Sample Method abbreviations: Grab (G), Composite (C), 24-Hour Composite (24HR Comp.).

*** Container Type abbreviations: Plastic (P), Glass (G).

Relinquished By: (Benchmark)	Sign Name:	<i>[Signature]</i>	Date:	01/25/17	Received By:	<i>[Signature]</i>	Date:	1/25/17
	Print Name:	Annah Jensen	Time:	0830			Time:	0915
Relinquished By:	Sign Name:	<i>[Signature]</i>	Date:	1/25/17	Received By:	<i>[Signature]</i>	Date:	1/25/17
	Print Name:		Time:	1055			Time:	1055



INTERLABORATORY SAMPLE TRANSMITTAL FORM

Benchmark EnviroAnalytical, Inc.
 1711 12th Street East
 Palmetto, FL 34221
 (941) 723-9986
 (941) 723-6061 fax
 WWW.Benchmark.com
 Office QC Check: _____
 Bottle Check: _____

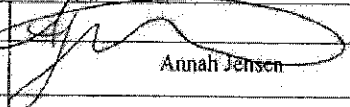

Date:	01/24/17		
# of Samples:	1	Total # of Bottles:	2
Method of Shipment:	UPS - 2 Day Air		
Subcontract Laboratory:	Summit Environmental 3310 Win Street Cuyaboga Falls, Ohio. 44223 (330) 253-8211		
Page	1	of	1

* 01/24/17

Laboratory Submission #	Collection		Sample Matrix ¹	Collection Method ²	Preservative	Container			Parameters	Comments
	Date	Time				Qty ³	Capacity	Type ³		
17010747-1 ES	01/24/17	0730	WW	24 Hr Comp.	Plain	2	950mL	G	Dioxin	

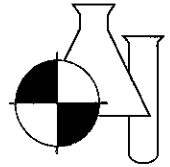
17011248-001
CSL

- "Sample Matrix" abbreviations: Groundwater (GW), Surface Water (SW), Drinking Water (DW), Sludge (Slg), Solid (Sol), Soil (Soil), Domestic Effluent (Dom Eff), Industrial Effluent (Ind Eff)
- "Sample Method" abbreviations: Grab (G), Composite (C)
- "Container Type" abbreviations: Plastic (P), Glass (G)

Relinquished By: (Benchmark)	Sign Name:		Date:	01/24/17	Received By:		Date:	01/24/17
	Print Name:	Annali Jensen	Time:	1600		UPS	Time:	1600
Relinquished By:	Sign Name:		Date:		Received By:		Date:	1/20
	Print Name:		Time:				Time:	10/15

BENCHMARK

EnviroAnalytical Inc.



FDOH Certification #E84167

Charlotte County Utilities
25550 Harbor View Rd., Unit 1
Port Charlotte, FL 33980

Sandra Lavoie

ANALYTICAL TEST REPORT

THESE RESULTS MEET NELAC STANDARDS

INORGANIC ANALYSIS

62-550.310 (1)

REPORT NUMBER: 17010786 - 001
SYSTEM NAME: EP-32 Pri/Sec & Ann. Reclaimed
SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
1040	NITRATE NITROGEN	MG/L	6.15		353.2	0.004	01/24/2017	16:07	E84167
1041	NITRITE NITROGEN	MG/L	0.003	U	SM4500NO2B	0.003	01/24/2017	16:07	E84167
1038	NITRATE+NITRITE AS N	MG/L	6.15		353.2	0.004	01/25/2017	12:37	E84167
1005	ARSENIC	UG/L	0.689	U	SM3113B	0.689	01/26/2017	11:35	E84167
1010	BARIUM	UG/L	8.70		200.7	2	01/25/2017	12:05	E84167
1015	CADMIUM	UG/L	0.900	U	200.7	0.900	01/25/2017	12:03	E84167
1020	CHROMIUM	UG/L	2	U	200.7	2	01/25/2017	12:05	E84167
1025	FLUORIDE	MG/L	0.162		300.0	0.030	01/27/2017	12:50	E84167
1030	LEAD	UG/L	0.670	U	SM3113B	0.670	01/25/2017	13:51	E84167
1035	MERCURY	UG/L	0.198	U	245.1	0.198	01/27/2017	12:01	E84167
1036	NICKEL	UG/L	4.50	I	200.7	1.18	01/25/2017	12:05	E84167
1045	SELENIUM	UG/L	1.57	U	SM3113B	1.57	02/01/2017	16:16	E84167
1052	SODIUM	MG/L	111		200.7	0.034	01/25/2017	12:05	E84167
1074	ANTIMONY	UG/L	2.26	U	SM3113B	2.26	01/27/2017	15:33	E84167
1075	BERYLLIUM	UG/L	0.100	I	200.7	0.078	01/25/2017	12:05	E84167
1085	THALLIUM	UG/L	0.981	U	200.9	0.981	01/31/2017	11:04	E84167

SYNTHETIC ORGANICS

62-550.310 (4) (b)

REPORT NUMBER: 17010786 - 001

SYSTEM NAME: EP-32 Pri/Sec & Ann. Reclaimed

SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
2005	ENDRIN	UG/L	0.0067	U	508.1	0.0067	02/08/2017	22:57	E83079
2010	GAMMA-BHC (LINDANE)	UG/L	0.0029	U	508.1	0.0029	02/08/2017	22:57	E83079
2015	METHOXYCHLOR	UG/L	0.0490	U	508.1	0.0490	02/08/2017	22:57	E83079
2020	TOXAPHENE	UG/L	0.5800	U	508.1	0.5800	02/08/2017	22:57	E83079
2031	DALAPON	UG/L	3.1		515.3	0.8900	02/09/2017	09:03	E83079
2032	DIQUAT	UG/L	0.3000	U	549.2	0.3000	02/01/2017	06:00	E83079
2033	ENDOTHALL	UG/L	4.3000	U	548.1	4.3000	01/28/2017	02:06	E83079
2034	GLYPHOSATE	UG/L	4.2000	U	547	4.2000	02/02/2017	07:43	E83079
2035	BIS(2-ETHYLHEXYL)ADIPATE	UG/L	0.3700	U	525.2	0.3700	02/08/2017	17:01	E83079
2036	OXAMYL	UG/L	0.5500	C13U	531.1	0.5500	02/07/2017	11:50	E83079
2037	SIMAZINE	UG/L	0.0660	U	508.1	0.0660	02/08/2017	22:57	E83079
2039	BIS(2-ETHYLHEXYL)PHTHALATE	UG/L	2.0		525.2	0.5300	02/08/2017	17:01	E83079
2040	PICLORAM	UG/L	0.0940	U	515.3	0.0940	02/09/2017	09:03	E83079
2041	DINOSEB	UG/L	0.1600	U	515.3	0.1600	02/09/2017	09:03	E83079
2042	HEXACHLOROCYCLOPENTADIENE	UG/L	0.0300	U	508.1	0.0300	02/08/2017	22:57	E83079
2046	CARBOFURAN	UG/L	0.3200	U	531.1	0.3200	02/07/2017	11:50	E83079
2050	ATRAZINE	UG/L	0.0600	U	508.1	0.0600	02/08/2017	22:57	E83079
2051	ALACHLOR	UG/L	0.0330	U	508.1	0.0330	02/08/2017	22:57	E83079
2063	2,3,7,8-TCDD	PG/L	0.684	U	1613B	0.684	02/06/2017		E87688
2065	HEPTACHLOR	UG/L	0.0110	U	508.1	0.0110	02/08/2017	22:57	E83079
2067	HEPTACHLOR EPOXIDE	UG/L	0.0029	U	508.1	0.0029	02/08/2017	22:57	E83079
2105	2,4-D	UG/L	0.0810	U	515.3	0.0810	02/09/2017	09:03	E83079
2110	2,4,5-TP (SILVEX)	UG/L	0.1600	U	515.3	0.1600	02/09/2017	09:03	E83079
2274	HEXACHLOROBENZENE	UG/L	0.0180	C7U	508.1	0.0180	02/08/2017	22:57	E83079
2306	BENZO(A)PYRENE	UG/L	0.0120	U	525.2	0.0120	02/08/2017	17:01	E83079
2326	PENTACHLOROPHENOL	UG/L	0.0300	U	515.3	0.0300	02/09/2017	09:03	E83079
2383	PCB, TOTAL	UG/L	0.0760	U	508.1	0.0760	02/08/2017	22:57	E83079
2959	CHLORDANE (TECHNICAL)	UG/L	0.0450	U	508.1	0.0450	02/08/2017	22:57	E83079

RADIONUCLIDES

62-550.310 (6)

REPORT NUMBER: 17010786 - 001

SYSTEM NAME: EP-32 Pri/Sec & Ann. Reclaimed

SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
	RADIUM-226/228 COMBINED	PCI/L	0.9	U	903.1/Ra-05	0.9	02/10/2017	11:37	E83033
4000	GROSS ALPHA	PCI/L	1.9	U	900.0	1.9	02/07/2017	15:37	E83033
4020	RADIUM-226	PCI/L	0.2+/-0.2		903.1	0.1	02/10/2017	11:37	E83033
4030	RADIUM-228	PCI/L	0.9	U	Ra-05	0.9	02/09/2017	12:14	E83033

SECONDARY CONTAMINANTS

62-550.320

REPORT NUMBER: 17010786 - 001

SYSTEM NAME: EP-32 Pri/Sec & Ann. Reclaimed

SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
1002	ALUMINUM	UG/L	23	U	200.7	23	01/25/2017	12:05	E84167
1017	CHLORIDE	MG/L	147		300.0	0.353	01/30/2017	12:42	E84167
1022	COPPER	UG/L	4	U	200.7	4	01/25/2017	12:05	E84167
1025	FLUORIDE	MG/L	0.162		300.0	0.030	01/27/2017	12:50	E84167
1028	IRON	UG/L	41.9	I	200.7	29	01/25/2017	12:05	E84167
1032	MANGANESE	UG/L	1.60	I	200.7	0.98	01/25/2017	12:05	E84167
1050	SILVER	UG/L	0.600	I	200.7	0.5	01/25/2017	12:05	E84167
1055	SULFATE	MG/L	124		300.0	0.339	01/30/2017	12:42	E84167
1095	ZINC	UG/L	36.1		200.7	1.4	01/25/2017	12:05	E84167
1930	TOTAL DISSOLVED SOLIDS	MG/L	592		SM2540C	7.26	01/25/2017	14:02	E84167
2905	SURFACTANTS	MG/L	0.099	I	SM5540C	0.03	01/25/2017	09:00	E84167

INORGANIC ANALYSIS

62-550.310 (1)

REPORT NUMBER: 17010786 - 002

SYSTEM NAME: EP-32 Pri/Sec & Ann. Reclaimed

SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
1024	CYANIDE	MG/L	0.005	U	335.4	0.005	01/25/2017	15:24	E84167

DISINFECTION BYPRODUCTS

62-550.310 (3)

REPORT NUMBER: 17010786 - 002

SYSTEM NAME: EP-32 Pri/Sec & Ann. Reclaimed

SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
2941	CHLOROFORM	UG/L	29.8		624	0.5	01/26/2017	13:19	E84167
2942	BROMOFORM	UG/L	0.5	U	624	0.5	01/26/2017	13:19	E84167
2943	DICHLOROBROMOMETHANE	UG/L	18.4		624	0.5	01/26/2017	13:19	E84167
2944	DIBROMOCHLOROMETHANE	UG/L	5.47		624	0.5	01/26/2017	13:19	E84167
2950	TRIHALOMETHANES, TOTAL	UG/L	53.7		624	0.5	01/26/2017	13:19	E84167

VOLATILE ORGANICS

62-550.310 (4) (a)

REPORT NUMBER: 17010786 - 002

SYSTEM NAME: EP-32 Pri/Sec & Ann. Reclaimed

SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
2378	1,2,4-TRICHLOROBENZENE	UG/L	0.5	U	624	0.5	01/26/2017	13:19	E84167
2380	CIS-1,2-DICHLOROETHENE	UG/L	0.5	U	624	0.5	01/26/2017	13:19	E84167
2955	XYLENES	UG/L	0.5	U	624	0.5	01/26/2017	13:19	E84167
2964	METHYLENE CHLORIDE	UG/L	0.5	U	624	0.5	01/26/2017	13:19	E84167
2968	O-DICHLOROBENZENE	UG/L	0.5	U	624	0.5	01/26/2017	13:19	E84167
2969	PARA-DICHLOROBENZENE	UG/L	0.5	U	624	0.5	01/26/2017	13:19	E84167
2976	VINYL CHLORIDE	UG/L	0.5	U	624	0.5	01/26/2017	13:19	E84167
2977	1,1-DICHLOROETHENE	UG/L	0.5	U	624	0.5	01/26/2017	13:19	E84167
2979	TRANS-1,2-DICHLOROETHENE	UG/L	0.5	U	624	0.5	01/26/2017	13:19	E84167
2980	1,2-DICHLOROETHANE	UG/L	0.5	U	624	0.5	01/26/2017	13:19	E84167
2981	1,1,1-TRICHLOROETHANE	UG/L	0.5	U	624	0.5	01/26/2017	13:19	E84167
2982	CARBON TETRACHLORIDE	UG/L	0.5	U	624	0.5	01/26/2017	13:19	E84167
2983	1,2-DICHLOROPROPANE	UG/L	0.5	U	624	0.5	01/26/2017	13:19	E84167
2984	TRICHLOROETHENE	UG/L	0.5	U	624	0.5	01/26/2017	13:19	E84167
2985	1,1,2-TRICHLOROETHANE	UG/L	0.5	U	624	0.5	01/26/2017	13:19	E84167
2987	TETRACHLOROETHENE	UG/L	0.5	U	624	0.5	01/26/2017	13:19	E84167
2989	MONOCHLOROBENZENE	UG/L	0.5	U	624	0.5	01/26/2017	13:19	E84167
2990	BENZENE	UG/L	0.5	U	624	0.5	01/26/2017	13:19	E84167
2991	TOLUENE	UG/L	0.5	U	624	0.5	01/26/2017	13:19	E84167
2992	ETHYLBENZENE	UG/L	0.5	U	624	0.5	01/26/2017	13:19	E84167
2996	STYRENE	UG/L	0.5	U	624	0.5	01/26/2017	13:19	E84167

SYNTHETIC ORGANICS

62-550.310 (4) (b)

REPORT NUMBER: 17010786 - 002

SYSTEM NAME: EP-32 Pri/Sec & Ann. Reclaimed

SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
2931	1,2-DIBROMO-3-CHLOROPROPANE	UG/L	0.014	U	504.1	0.014	01/25/2017	15:16	E84167
2946	ETHYLENE DIBROMIDE	UG/L	0.01	U	504.1	0.01	01/25/2017	15:16	E84167

SECONDARY CONTAMINANTS

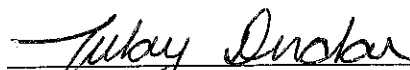
62-550.320

REPORT NUMBER: 17010786 - 002

SYSTEM NAME: EP-32 Pri/Sec & Ann. Reclaimed

SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
1925	PH	UNITS	7.29	Q	SM4500H+B		01/24/2017	15:29	E84167


 Dale D. Dixon / Laboratory Director

02/21/2017

Date

Tulay Tanrisever / QC Officer

Deborah A. Murphy / Project Manager

DATA QUALIFIERS THAT MAY APPLY:

I = Reported value is between the laboratory MDL and the PQL. PQL = 4 x MDL.

J = Estimated value.

J3 = Estimated value. Quality control criteria for precision or accuracy not met.

J4 = Estimated value. Sample matrix interference suspected.

Q = Sample held beyond accepted hold time.

U = Analyte analyzed but not detected at the value indicated.

V = Analyte detected in sample and method blank. Results for this analyte in associated samples may be biased high. Standard, Duplicate, and Spike values are within control limits. Reported data are usable.

NOTES:

ND = Not Detected at or above adjusted reporting limit.

MBAS calculated as LAS; molecular weight = 340

X = Value exceeds MCL.

C7 = Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

C13 = The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

For questions and comments regarding these results, please contact us at (941) 723-9986.

Results relate only to the samples.

Benchmark EnviroAnalytical, Inc.

1711 Twelfth Street East
 Palmetto, FL 34221
 (941) 723-9986
 (941) 723-6061 fax
 www.benchmarkea.com

Client: Charlotte County Utilities
 East Port Water Reclamation Facility
 3100 Loveland Blvd.
 Port Charlotte FL
 Tel: 941-764-4595
 Fax: 941-627-4603

Chain of Custody Form: East Port Primary & Secondary Analysis Annual Reclaimed Water (Jan.)
Sample Matrix²: WW

Laboratory Submission #:

17010786

Sample ID	Sample Type ¹	Sb, As, Ba, Be, Cd, Cr, Pb, Hg, Ni, Se, Na, Tl, Al, Cu, Fe, Mn, Ag, Zn	Cl SO ₄ TDS NO ₂ (SM4500) Fluoride	Gross Alpha Rad 226 & 228 Radium 226/228 Combined	NO ₃ -NO ₂ , NO ₃	MBAS	Dioxin	SOC's (Pesticides and PCB's)						EDB/DBCP 504	THM's VOCs 624 (21) ***	CN	pH ****	Lab ID#	
								Carbamates 531.1	Pesticides 508	Herbicides 515.3	Semivolatiles 525.2	Glyphosate 547	Endothal 548.1						Diquat 549.2
			Plain	1:4 HNO ₃ pH<2 ✓	1:4 H ₂ SO ₄ pH<2 ✓	Plain	Plain	MCAA Na ₂ S ₂ O ₃	Na ₂ S ₂ O ₃ 1:1 HCl*	Na ₂ S ₂ O ₃	Na ₂ S ₂ O ₃ 1:1 HCl*	Na ₂ S ₂ O ₃	Na ₂ S ₂ O ₃	Na ₂ S ₂ O ₃ H ₂ SO ₄ *	NaThio	NaThio 1:1 HCl*	NaOH	Plain	
		1 x 1 Quart Plastic	1 x 1 Quart Plastic	1 x 2 Quart Plastic	1 x 1/2 pint Plastic	1 x 1 Quart Plastic	2 x 950mL Glass	2 x 40mL Glass Vials	1 x 1 Liter Glass	1 x 250mL Glass	1 x 1 Liter Glass	2 x 40mL Glass Vials	1 x 500mL Amber Glass	1 x 1 Liter Plastic	2 x 40mL Glass Vials	3 x 40mL Glass Vials	1 x 250mL Plastic	1 x 1/2 Pint Plastic	
EP-32	Comp.	Start Date & Time: 1-23-2017 @ 0700 End Date & Time: 1-24-2017 @ 0700															1		
	Grab	Date & Time: 01/24/17 @ 0700															2		

*Add 3 drops of HCl to each bottle.
 **Add entire vial of HCl to each sample bottle.
 *** Fill all 3 vials completely; there can be NO AIR BUBBLES.
 ****pH received after 15 minute hold time, ok to run analysis.

Field pH: _____ Field Turbidity: _____

- "Sample Type" is used to indicate whether the sample was a grab (G) or whether it was a composite (C).
- "Sample Matrix" is used to indicate whether the sample is being discharged to drinking water (DW), groundwater (GW), surface water (SW), soil, sediment (SDMNT), or sludge (SLDG).
- "Container Type" is used to indicate whether the container is plastic (P) or glass (G).
- Sample must be refrigerated or stored in wet ice after collection. The temperature during storage should be less than or equal to 6°C (42.8°F). Under "Preservative," list any preservatives that were added to the sample container.

- Instructions:**
- Each bottle has a label identifying sample ID, premeasured preservative contained in the bottle, sample type, client ID, and parameters for analysis.
 - The following information should be added to each bottle label after collection with permanent black ink: date and time of collection, sampler's name or initials, and any field number or ID.
 - All bottles not containing preservative may be rinsed with appropriate sample prior to collection.
 - The client is responsible for documentation of the sampling event. Please note special sampling events on the sample custody form.

Laboratory Sample Acceptability:
 pH < 2: ✓
 BEA Temperature: 21.6 °C

1	Collected by: <i>AW/mm</i>	Date: 1-24-17	Time: 0738	Received By: <i>[Signature]</i>	Date: 1/24/17	Time: 0738
2	Relinquished by: <i>[Signature]</i>	Date: 01/24/17	Time: 1140	Received By: <i>Amy Haubert</i>	Date: 01/24/17	Time: 1140
3	Relinquished by: <i>Amy Haubert</i>	Date: 1/24/17	Time: 1200	Received By: <i>[Signature]</i>	Date: 1/24/17	Time: 1200
4	Relinquished by: <i>[Signature]</i>	Date: 1/24/17	Time: 1410	Received By: <i>[Signature]</i>	Date: 01/24/17	Time: 1410

INTERLABORATORY SAMPLE TRANSMITTAL FORM

Benchmark EnviroAnalytical, Inc.
 1711 12th Street East
 Palmetto, FL 34221
 (941) 723-9986
 (941) 723-6061 fax

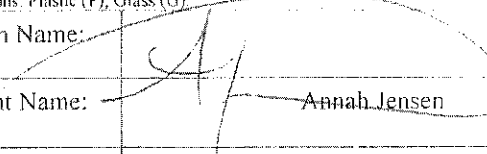
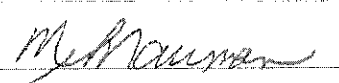
Office QC Check: _____
 Bottle Check: _____

10 BUSINESS DAY T.A.T. PLEASE

Date:	01/24/17		
# of Samples:	1	Total # of Bottles:	1
Method of Shipment:	Courier		
Subcontract Laboratory:	Florida Radiochemistry 5456 Hoffner Ave. #201 Orlando, FL 32812 Phone: 407-382-7733 Fax: 407-382-7744		
Page	1	of	1

Laboratory Submission #	Collection		Sample Matrix*	Collection Method**	Preservative	Container			Parameters	Field Conductivity $\mu\text{s/cm}$
	Date	Time				Qty	Capacity	Type***		
17010786-1	01/24/17	0700	WW	24 Hr. Comp.	1:4 HNO ₃	1	2 Qt	P	Gross Alpha, Radium 226 & 228	

* Sample Matrix abbreviations: Groundwater (GW), Surface Water (SW), Saline Surface Water (SSW), Fresh Surface Water(FSW), Drinking Water (DW), Sludge (Slgd), Solid (Sol), Soil (Soil), Domestic Effluent (Dom Eff), Industrial Effluent (Ind Eff)
 ** Sample Method abbreviations: Grab (G), Composite (C), 24 Hour Composite (24HR Comp.)
 *** Container Type abbreviations: Plastic (P), Glass (G)

Relinquished By: (Benchmark)	Sign Name: 	Date:		Received By:		Date:	2-1-17
	Print Name: Annah Jensen	Time:		MIKE NAUMAN	Time:	11:45	
Relinquished By:	Sign Name:	Date:		Received By:		Date:	
	Print Name:	Time:				Time:	

INTERLABORATORY SAMPLE TRANSMITTAL FORM

Benchmark EnviroAnalytical, Inc.
 1711 12th Street East
 Palmetto, FL 34221
 (941) 723-9986
 (941) 723-6061 fax
 www.Benchmarkea.com
 Office QC Check: _____
 Bottle Check: _____

Date:	01/24/17		
# of Samples:	1	Total # of Bottles:	9
Method of Shipment:	Hand Delivery		
Subcontract Laboratory:	E83079 - Pace Analytical Service Inc; 8 East Tower Circle; Ormond Beach, FL 32175 Joe Vodrik; 1-800-966-5668		
Page	1	of	1

Page 20 of 21

Laboratory Submission #	Collection		Sample Matrix*	Collection Method**	Preservative	Container			Parameters SOC's (Pesticides and PCB's)	Comments
	Date	Time				Qty	Capacity	Type***		
17010786-1	01/24/17	0700	WW	24 Hr. Comp.	MCAA Na ₂ S ₂ O ₃	2	40mL	G	Carabamates (531.1)	*
					Na ₂ S ₂ O ₃ HCl	1	1 L	G	Pesticides (508)	*
					Na ₂ S ₂ O ₃	1	250mL	G	Herbicides (515.3)	*
					Na ₂ S ₂ O ₃ HCl	1	1 L	G	Semivolatiles (525.2)	*
					Na ₂ S ₂ O ₃	2	40mL	G	Glyphosate (547)	*
					Na ₂ S ₂ O ₃	1	500mL	G	Endothall (548.1)	*
					Na ₂ S ₂ O ₃ H ₂ SO ₄	1	1 L	P	Diquat (549.2)	*
									*Do NOT Dilute sample, Call Dale Dixon for OK first!	

* Sample Matrix abbreviations: Groundwater (GW), Surface Water (SW), Saline Surface Water (SSW), Fresh Surface Water (FSW), Drinking Water (DW), Sludge (Slgd), Solid (Sol), Soil (Soil), Domestic Effluent (Dom Eff), Industrial Effluent (Ind Eff).

** Sample Method abbreviations: Grab (G), Composite (C), 24 Hour Composite (24HR Comp.).

*** Container Type abbreviations: Plastic (P), Glass (G).

Relinquished By: (Benchmark)	Sign Name:	<i>Annah Jensen</i>	Date:	01/25/17	Received By:	<i>A. R. Pace</i>	Date:	1/25/17
	Print Name:	Annah Jensen	Time:	0830			Time:	0830
Relinquished By:	Sign Name:	<i>A. R. Pace</i>	Date:	1/25/17	Received By:	<i>Ashley Pace</i>	Date:	1/25/17
	Print Name:		Time:	1055			Time:	1055



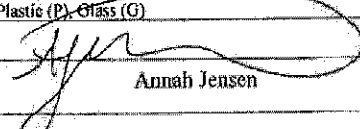
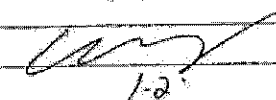
INTERLABORATORY SAMPLE TRANSMITTAL FORM

Benchmark EnviroAnalytical, Inc.
 1711 12th Street East
 Palmetto, FL 34221
 (941) 723-9986
 (941) 723-6061 fax
 WWW.Benchmarkea.com
 Office QC Check: _____
 Bottle Check: _____

Date:	01/24/17		
# of Samples:	1	Total # of Bottles:	2
Method of Shipment:	UPS - 2 Day Air		
Subcontract Laboratory:	Summit Environmental 3310 Win Street Cuyahoga Falls, Ohio. 44223 (330) 253-8211		
Page	1	of	1

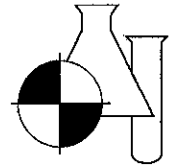
Laboratory Submission #	Collection		Sample Matrix ¹	Collection Method ²	Preservative	Container			Parameters	Comments
	Date	Time				Qty	Capacity	Type ³		
17010786-1	01/24/17	0700	WW	24 Hr Comp.	Plain	2	950mL	G	Dioxin	
17011247-01 CSL										

- "Sample Matrix" abbreviations: Groundwater (GW), Surface Water (SW), Drinking Water (DW), Sludge (Sludg), Solid (Sol), Soil (Soil), Domestic Effluent (Dom Eff), Industrial Effluent (Ind Eff)
- "Sample Method" abbreviations: Grab (G), Composite (C)
- "Container Type" abbreviations: Plastic (P), Glass (G)

Relinquished By: (Benchmark)	Sign Name:		Date:	01/24/17	Received By:	UPS	Date:	01/24/17
	Print Name:		Annah Jensen	Time:			1600	Time:
Relinquished By:	Sign Name:		Date:		Received By:	1-2	Date:	1-26-17
	Print Name:			Time:				Time:

BENCHMARK

EnviroAnalytical Inc.



FDOH Certification #E84167

Charlotte County Utilities
25550 Harbor View Rd., Unit 1
Port Charlotte, FL 33980

Sandra Lavoie

ANALYTICAL TEST REPORT

THESE RESULTS MEET NELAC STANDARDS

INORGANIC ANALYSIS

62-550.310 (1)

REPORT NUMBER: 17010787 - 001
SYSTEM NAME: RP-8 Pri/Sec & Ann. Reclaimed
SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
1040	NITRATE NITROGEN	MG/L	10.9		353.2	0.004	01/24/2017	16:08	E84167
1041	NITRITE NITROGEN	MG/L	0.003	U	SM4500NO2B	0.003	01/24/2017	16:08	E84167
1038	NITRATE+NITRITE AS N	MG/L	10.9		353.2	0.004	01/25/2017	12:44	E84167
1005	ARSENIC	UG/L	0.689	U	SM3113B	0.689	01/26/2017	11:41	E84167
1010	BARIUM	UG/L	11.3		200.7	2	01/25/2017	12:09	E84167
1015	CADMIUM	UG/L	0.900	U	200.7	0.900	01/25/2017	12:07	E84167
1020	CHROMIUM	UG/L	2	U	200.7	2	01/25/2017	12:09	E84167
1025	FLUORIDE	MG/L	0.163		300.0	0.030	01/27/2017	13:05	E84167
1030	LEAD	UG/L	0.670	U	SM3113B	0.670	01/25/2017	14:02	E84167
1035	MERCURY	UG/L	0.198	U	245.1	0.198	01/27/2017	12:01	E84167
1036	NICKEL	UG/L	4.40	I	200.7	1.18	01/25/2017	12:09	E84167
1045	SELENIUM	UG/L	1.57	U	SM3113B	1.57	02/01/2017	16:22	E84167
1052	SODIUM	MG/L	98.8		200.7	0.034	01/25/2017	12:09	E84167
1074	ANTIMONY	UG/L	2.26	U	SM3113B	2.26	01/27/2017	15:43	E84167
1075	BERYLLIUM	UG/L	0.100	I	200.7	0.078	01/25/2017	12:09	E84167
1085	THALLIUM	UG/L	0.981	U	200.9	0.981	01/31/2017	11:12	E84167

SYNTHETIC ORGANICS

62-550.310 (4) (b)

REPORT NUMBER: 17010787 - 001

SYSTEM NAME: RP-8 Pri/Sec & Ann. Reclaimed

SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
2005	ENDRIN	UG/L	0.0066	U	508.1	0.0066	02/08/2017	12:49	E83079
2010	GAMMA-BHC (LINDANE)	UG/L	0.0028	U	508.1	0.0028	02/08/2017	12:49	E83079
2015	METHOXYCHLOR	UG/L	0.0480	U	508.1	0.0480	02/08/2017	12:49	E83079
2020	TOXAPHENE	UG/L	0.5700	U	508.1	0.5700	02/08/2017	12:49	E83079
2031	DALAPON	UG/L	4.1		515.3	0.8900	02/09/2017	09:34	E83079
2032	DIQUAT	UG/L	0.3000	U	549.2	0.3000	02/01/2017	06:10	E83079
2033	ENDOTHALL	UG/L	4.3000	U	548.1	4.3000	01/28/2017	08:12	E83079
2034	GLYPHOSATE	UG/L	4.2000	U	547	4.2000	02/02/2017	07:55	E83079
2035	DI(2-ETHYLHEXYL)ADIPATE	UG/L	0.3700	U	525.2	0.3700	02/08/2017	17:22	E83079
2036	OXAMYL	UG/L	0.5500	C13U	531.1	0.5500	02/07/2017	12:24	E83079
2037	SIMAZINE	UG/L	0.0650	U	508.1	0.0650	02/08/2017	12:49	E83079
2039	DI(2-ETHYLHEXYL)PHTHALATE	UG/L	73.1		525.2	10.7000	02/08/2017	17:22	E83079
2040	PICLORAM	UG/L	0.0940	U	515.3	0.0940	02/09/2017	09:34	E83079
2041	DINOSEB	UG/L	0.1600	U	515.3	0.1600	02/09/2017	09:34	E83079
2042	HEXACHLOROCYCLOPENTADIENE	UG/L	0.0300	U	508.1	0.0300	02/08/2017	12:49	E83079
2046	CARBOFURAN	UG/L	0.3200	U	531.1	0.3200	02/07/2017	12:24	E83079
2050	ATRAZINE	UG/L	0.0590	U	508.1	0.0590	02/08/2017	12:49	E83079
2051	ALACHLOR	UG/L	0.0330	U	508.1	0.0330	02/08/2017	12:49	E83079
2063	2,3,7,8-TCDD	PG/L	0.684	U	1613B	0.684	02/06/2017		E87688
2065	HEPTACHLOR	UG/L	0.0110	U	508.1	0.0110	02/08/2017	12:49	E83079
2067	HEPTACHLOR EPOXIDE	UG/L	0.0028	U	508.1	0.0028	02/08/2017	12:49	E83079
2105	2,4-D	UG/L	0.0810	U	515.3	0.0810	02/09/2017	09:34	E83079
2110	2,4,5-TP (SILVEX)	UG/L	0.1600	U	515.3	0.1600	02/09/2017	09:34	E83079
2274	HEXACHLOROBENZENE	UG/L	0.0180	C7U	508.1	0.0180	02/08/2017	12:49	E83079
2306	BENZO(A)PYRENE	UG/L	0.0120	U	525.2	0.0120	02/08/2017	17:22	E83079
2326	PENTACHLOROPHENOL	UG/L	0.0300	U	515.3	0.0300	02/09/2017	09:34	E83079
2383	PCB, TOTAL	UG/L	0.0750	U	508.1	0.0750	02/08/2017	12:49	E83079
2959	CHLORDANE (TECHNICAL)	UG/L	0.0440	U	508.1	0.0440	02/08/2017	12:49	E83079

RADIONUCLIDES

62-550.310 (6)

REPORT NUMBER: 17010787 - 001

SYSTEM NAME: RP-8 Pri/Sec & Ann. Reclaimed

SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
	RADIUM-226/228 COMBINED	PCI/L	2.0+/-0.9		903.1/Ra-05	0.9	02/10/2017	13:13	E83033
4000	GROSS ALPHA	PCI/L	3.2+/-1.3		900.0	1.7	02/07/2017	14:02	E83033
4020	RADIUM-226	PCI/L	0.7+/-0.2		903.1	0.1	02/10/2017	13:13	E83033
4030	RADIUM-228	PCI/L	1.3+/-0.7		Ra-05	0.9	02/09/2017	13:15	E83033

SECONDARY CONTAMINANTS

62-550.320

REPORT NUMBER: 17010787 - 001

SYSTEM NAME: RP-8 Pri/Sec & Ann. Reclaimed

SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
1002	ALUMINUM	UG/L	46.1	I	200.7	23	01/25/2017	12:09	E84167
1017	CHLORIDE	MG/L	138		300.0	0.353	01/30/2017	12:55	E84167
1022	COPPER	UG/L	7.20	I	200.7	4	01/25/2017	12:09	E84167
1025	FLUORIDE	MG/L	0.163		300.0	0.030	01/27/2017	13:05	E84167
1028	IRON	UG/L	29	U	200.7	29	01/25/2017	12:09	E84167
1032	MANGANESE	UG/L	4.70		200.7	0.98	01/25/2017	12:09	E84167
1050	SILVER	UG/L	0.500	I	200.7	0.5	01/25/2017	12:09	E84167
1055	SULFATE	MG/L	93.4		300.0	0.339	01/30/2017	12:55	E84167
1095	ZINC	UG/L	32.7		200.7	1.4	01/25/2017	12:09	E84167
1930	TOTAL DISSOLVED SOLIDS	MG/L	584		SM2540C	7.26	01/25/2017	14:02	E84167
2905	SURFACTANTS	MG/L	0.146		SM5540C	0.03	01/25/2017	09:00	E84167

INORGANIC ANALYSIS

62-550.310 (1)

REPORT NUMBER: 17010787 - 002

SYSTEM NAME: RP-8 Pri/Sec & Ann. Reclaimed

SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
1024	CYANIDE	MG/L	0.005	U	335.4	0.005	01/25/2017	15:27	E84167

DISINFECTION BYPRODUCTS

62-550.310 (3)

REPORT NUMBER: 17010787 - 002

SYSTEM NAME: RP-8 Pri/Sec & Ann. Reclaimed

SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
2941	CHLOROFORM	UG/L	58.0		624	0.5	01/26/2017	13:48	E84167
2942	BROMOFORM	UG/L	1.08	I	624	0.5	01/26/2017	13:48	E84167
2943	DICHLOROBROMOMETHANE	UG/L	38.9		624	0.5	01/26/2017	13:48	E84167
2944	DIBROMOCHLOROMETHANE	UG/L	13.6		624	0.5	01/26/2017	13:48	E84167
2950	TRIHALOMETHANES, TOTAL	UG/L	112		624	0.5	01/26/2017	13:48	E84167

VOLATILE ORGANICS

62-550.310 (4) (a)

REPORT NUMBER: 17010787 - 002

SYSTEM NAME: RP-8 Pri/Sec & Ann. Reclaimed

SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
2378	1,2,4-TRICHLOROBENZENE	UG/L	0.5	U	624	0.5	01/26/2017	13:48	E84167
2380	CIS-1,2-DICHLOROETHENE	UG/L	0.5	U	624	0.5	01/26/2017	13:48	E84167
2955	XYLENES	UG/L	0.5	U	624	0.5	01/26/2017	13:48	E84167
2964	METHYLENE CHLORIDE	UG/L	0.5	U	624	0.5	01/26/2017	13:48	E84167
2968	O-DICHLOROBENZENE	UG/L	0.5	U	624	0.5	01/26/2017	13:48	E84167
2969	PARA-DICHLOROBENZENE	UG/L	0.5	U	624	0.5	01/26/2017	13:48	E84167
2976	VINYL CHLORIDE	UG/L	0.5	U	624	0.5	01/26/2017	13:48	E84167
2977	1,1-DICHLOROETHENE	UG/L	0.5	U	624	0.5	01/26/2017	13:48	E84167
2979	TRANS-1,2-DICHLOROETHENE	UG/L	0.5	U	624	0.5	01/26/2017	13:48	E84167
2980	1,2-DICHLOROETHANE	UG/L	0.5	U	624	0.5	01/26/2017	13:48	E84167
2981	1,1,1-TRICHLOROETHANE	UG/L	0.5	U	624	0.5	01/26/2017	13:48	E84167
2982	CARBON TETRACHLORIDE	UG/L	0.5	U	624	0.5	01/26/2017	13:48	E84167
2983	1,2-DICHLOROPROPANE	UG/L	0.5	U	624	0.5	01/26/2017	13:48	E84167
2984	TRICHLOROETHENE	UG/L	0.5	U	624	0.5	01/26/2017	13:48	E84167
2985	1,1,2-TRICHLOROETHANE	UG/L	0.5	U	624	0.5	01/26/2017	13:48	E84167
2987	TETRACHLOROETHENE	UG/L	0.5	U	624	0.5	01/26/2017	13:48	E84167
2989	MONOCHLOROBENZENE	UG/L	0.5	U	624	0.5	01/26/2017	13:48	E84167
2990	BENZENE	UG/L	0.5	U	624	0.5	01/26/2017	13:48	E84167
2991	TOLUENE	UG/L	0.5	U	624	0.5	01/26/2017	13:48	E84167
2992	ETHYLBENZENE	UG/L	0.5	U	624	0.5	01/26/2017	13:48	E84167
2996	STYRENE	UG/L	0.5	U	624	0.5	01/26/2017	13:48	E84167

SYNTHETIC ORGANICS

62-550.310 (4) (b)

REPORT NUMBER: 17010787 - 002

SYSTEM NAME: RP-8 Pri/Sec & Ann. Reclaimed

SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
2931	1,2-DIBROMO-3-CHLOROPROPANE	UG/L	0.014	U	504.1	0.014	01/25/2017	15:54	E84167
2946	ETHYLENE DIBROMIDE	UG/L	0.01	U	504.1	0.01	01/25/2017	15:54	E84167

SECONDARY CONTAMINANTS

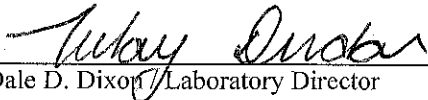
62-550.320

REPORT NUMBER: 17010787 - 002

SYSTEM NAME: RP-8 Pri/Sec & Ann. Reclaimed

SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
1925	PH	UNITS	7.37	Q	SM4500H+B		01/24/2017	15:29	E84167



02/21/2017

Dale D. Dixon / Laboratory Director

Date

Tülay Tanrisever / QC Officer

Deborah A. Murphy / Project Manager

DATA QUALIFIERS THAT MAY APPLY:

I = Reported value is between the laboratory MDL and the PQL. PQL = 4 x MDL.

J = Estimated value.

J3 = Estimated value. Quality control criteria for precision or accuracy not met.

J4 = Estimated value. Sample matrix interference suspected.

Q = Sample held beyond accepted hold time.

U = Analyte analyzed but not detected at the value indicated.

V = Analyte detected in sample and method blank. Results for this analyte in associated samples may be biased high. Standard, Duplicate, and Spike values are within control limits. Reported data are usable.

NOTES:

ND = Not Detected at or above adjusted reporting limit.

MBAS calculated as LAS; molecular weight = 340

X = Value exceeds MCL.

C7 = Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

C13 = The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

For questions and comments regarding these results, please contact us at (941) 723-9986.

Results relate only to the samples.

Benchmark EnviroAnalytical, Inc.

1711 Twelfth Street East
 Palmetto, FL 34221
 (941) 723-9986
 (941) 723-6061 fax
 WWW.benchmarkea.com

Client: Charlotte County Utilities
 Rotonda WWTP
 3740 Kendall Rd
 Rotonda, West FL 33947
 Tel: 941-697-0269
 Fax: 941-697-1622

Chain of Custody Form: Rotonda Primary & Secondary Analysis Annual Reclaimed Water (Jan.)
 Sample Matrix²: WW

Laboratory Submission #: **17010787**

Sample ID	Sample Type ¹	Sb, As, Ba, Be, Cd, Cr, Pb, Hg, Ni, Se, Na, Tl, Al, Cu, Fe, Mn, Ag, Zn	Dioxin	Gross α, Radium-226 & Radium 226/228 Combined	MBAS	NO ₃ -NO ₂ NO ₃	Cl ⁻ SO ₄ TDS NO ₂ (SM4500) Fluoride	SOC's (Pesticides and PCB's)						CN ²	THM's VOCs (21) 624 ***	EDB/DBCP 504	pH ****	Lab ID #
								Carbamates 531.1	Pesticides 508	Herbicides 515.3	Semivolatile 525.2	Glyphosate 547	Endothal 548.1					
		1: 4 HNO ₃ pH<2 ✓	Plain	1:4 HNO ₃ pH<2 ✓	Plain	1:4 H ₂ SO ₄ pH<2 ✓	Plain	MCAA Na ₂ S ₂ O ₃	Na ₂ S ₂ O ₃ 1:1 HCl*	Na ₂ S ₂ O ₃	Na ₂ S ₂ O ₃ 1:1 HCl*	Na ₂ S ₂ O ₃	Na ₂ S ₂ O ₃	Na ₂ S ₂ O ₃ H ₂ SO ₄ *	NaOH pH>9 □	NaThio 4:1 HCl*	Na ₂ S ₂ O ₃	Plain
		1 x 1 Quart Plastic	2 x 1 Quart Glass	1 x 2 Quart Plastic	1 x 1 Quart Plastic	1 x 1/2 Pint Plastic	1 x 1 Quart Plastic	2 x 40mL Glass Vials	1 x 1 Liter Glass	1 x 250mL Glass	1 x 1 Liter Glass	2 x 40mL Glass Vials	1 x 500mL Amber Glass	1 x 1 Liter Plastic	1 x 250mL Plastic	3 x 40mL Glass Vials***	2 x 40mL Glass Vials	1 x 1/2 Pint Plastic
RP-8	Comp.	Start Date & Time: 1-23-17 0800hrs													Date & Time: 1-24-17 0800hrs		1	
	Grab	End Date & Time: 1-24-17 0800hrs																

*Add 3 drops of HCl to each bottle. *** Fill all 3 vials completely; there can be NO AIR BUBBLES.

Add entire vial of HCl to sample bottle. **pH received after 15 minute hold time, ok to run analysis.

Field pH: 7.18 Field Turbidity: 0.069

- "Sample Type" is used to indicate whether the sample was a grab (G) or whether it was a composite (C).
- "Sample Matrix" is used to indicate whether the sample is being discharged to drinking water (DW), groundwater (GW), surface water (SW), soil, sediment (SDMNT), or sludge (SLDG).
- "Container Type" is used to indicate whether the container is plastic (P) or glass (G).
- Sample must be refrigerated or stored in wet ice after collection. The temperature during storage should be less than or equal to 6°C (42.8°F). Under "Preservative," list any preservatives that were added to the sample container.

- Instructions:**
- Each bottle has a label identifying sample ID, premeasured preservative contained in the bottle, sample type, client ID, and parameters for analysis.
 - The following information should be added to each bottle label after collection with permanent black ink: date and time of collection, sampler's name or initials, and any field number or ID.
 - All bottles not containing preservative may be rinsed with appropriate sample prior to collection.
 - The client is responsible for documentation of the sampling event. Please note special sampling events on the sample custody form.

Laboratory Sample Acceptability:
 pH < 2 : ✓
 BEA Temperature: 2.6 °C

1	<i>[Signature]</i>	Date: 1-24-17	Time: 0805	Received By: <i>[Signature]</i>	Date: 1-24-17	Time: 0810
2	<i>[Signature]</i>	Date: 1-24-17	Time: 0805	Received By: <i>[Signature]</i>	Date: 1/24/17	Time: 0905
3	<i>[Signature]</i>	Date: 01/24/17	Time: 1140	Received By: <i>[Signature]</i>	Date: 1/24/17	Time: 1120
	<i>[Signature]</i>	Date: 1/24/17	Time: 1410		Date: 01/24/17	Time: 1410

INTERLABORATORY SAMPLE TRANSMITTAL FORM

Benchmark EnviroAnalytical, Inc.
 1711 12th Street East
 Palmetto, FL 34221
 (941) 723-9986
 (941) 723-6061 fax

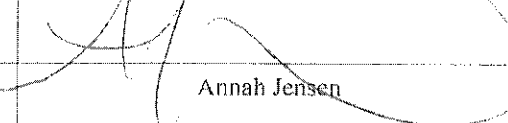

Office QC Check: _____
 Bottle Check: _____

10 BUSINESS DAY T.A.T. PLEASE

Date:	01/24/17		
# of Samples:	1	Total # of Bottles:	1
Method of Shipment:	Courier		
Subcontract Laboratory:	Florida Radiochemistry 5456 Hoffner Ave. #201 Orlando, FL 32812 Phone: 407-382-7733 Fax: 407-382-7744		
Page	1	of	1

Laboratory Submission #	Collection		Sample Matrix*	Collection Method**	Preservative	Container			Parameters	Field Conductivity us/cm
	Date	Time				Qty	Capacity	Type***		
17010787-1	01/24/17	0800	WW	24 Hr. Comp.	1:4 HNO ₃	1	2 Qt	P	Gross Alpha, Radium 226 & 228	

* Sample Matrix abbreviations: Groundwater (GW), Surface Water (SW), Saline Surface Water (SSW), Fresh Surface Water (FSW), Drinking Water (DW), Sludge (Slgd), Solid (Sol), Soil (Soil), Domestic Effluent (Dom Eff), Industrial Effluent (Ind Eff).
 ** Sample Method abbreviations: Grab (G), Composite (C), 24 Hour Composite (24HR Comp).
 *** Container Type abbreviations: Plastic (P), Glass (G)

Relinquished By: (Benchmark)	Sign Name:		Date:		Received By:		Date:	2-1-17
	Print Name:		Annah Jensen	Time:				Time:
Relinquished By:	Sign Name:		Date:		Received By:		Date:	
	Print Name:		Time:				Time:	

INTERLABORATORY SAMPLE TRANSMITTAL FORM

Benchmark EnviroAnalytical, Inc.
 1711 12th Street East
 Palmetto, FL 34221
 (941) 723-9986
 (941) 723-6061 fax
 www.Benchmark.com
 Office QC Check: _____
 Bottle Check: _____

Date:	01/24/17		
# of Samples:	1	Total # of Bottles:	9
Method of Shipment:	Hand Delivery		
Subcontract Laboratory:	E83079 - Pace Analytical Service Inc; 8 East Tower Circle; Ormond Beach, FL 32175 Joe Vodrik; 1-800-966-5668		
Page	1	of	1

Page 20 of 21

Laboratory Submission #	Collection		Sample Matrix*	Collection Method**	Preservative	Container			Parameters SOC's (Pesticides and PCB's)	Comments
	Date	Time				Qty	Capacity	Type***		
17010787-1	01/24/17	0800	WW	24 Hr. Comp.	MCAA Na ₂ S ₂ O ₃	2	40mL	G	Carbamates (531.1)	*
					Na ₂ O ₃ HCl	1	1 L	G	Pesticides (508)	*
					Na ₂ S ₂ O ₃	1	250mL	G	Herbicides (515.3)	*
					Na ₂ O ₃ HCl	1	1 L	G	Semivolatiles (525.2)	*
					Na ₂ S ₂ O ₃	2	40mL	G	Glyphosate (547)	*
					Na ₂ S ₂ O ₃	1	500mL	G	Endothall (548.1)	*
					Na ₂ S ₂ O ₃ H ₂ SO ₄	1	1 L	P	Diquat (549.2)	*
									*Do NOT Dilute sample, Call Dale Dixon for OK first!	

* Sample Matrix abbreviations: Groundwater (GW), Surface Water (SW), Saline Surface Water (SSW), Fresh Surface Water (FSW), Drinking Water (DW), Sludge (Sludg), Solid (Sol), Soil (Soil), Domestic Effluent (Dom Eff), Industrial Effluent (Ind Eff).

** Sample Method abbreviations: Grab (G), Composite (C), 24 Hour Composite (24HR Comp.)

*** Container Type abbreviations: Plastic (P), Glass (G)

Relinquished By: (Benchmark)	Sign Name: <i>[Signature]</i>	Date: 01/25/17	Received By: <i>[Signature]</i>	Date: 01/25/17
	Print Name: Annah Jensen	Time: 0830		Time: 0915
Relinquished By:	Sign Name: <i>[Signature]</i>	Date: 1/25/17	Received By: <i>[Signature]</i>	Date: 1/25/17
	Print Name:	Time: 1055		Time: 10:55



INTERLABORATORY SAMPLE TRANSMITTAL FORM

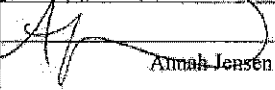

Benchmark EnviroAnalytical, Inc.
 1711 12th Street East
 Palmetto, FL 34221
 (941) 723-9986
 (941) 723-6061 fax
 WWW.Benchmarkea.com
 Office QC Check: _____
 Bottle Check: _____

Date:	01/24/17		
# of Samples:	1	Total # of Bottles:	2
Method of Shipment:	UPS - 2 Day Air		
Subcontract Laboratory:	Summit Environmental 3310 Win Street Cuyahoga Falls, Ohio. 44223 (330) 253-8211		
Page	1	of	1

Laboratory Submission #	Collection		Sample Matrix ¹	Collection Method ²	Preservative	Container			Parameters	Comments
	Date	Time				Qty	Capacity	Type ³		
17010787-1	01/24/17	0800	WW	24 Hr Comp.	Plain	2	950mL	G	Dioxin	

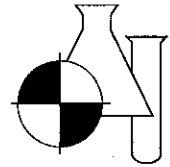
17011250-001 CSL

- "Sample Matrix" abbreviations: Groundwater (GW), Surface Water (SW), Drinking Water (DW), Sludge (Slg), Solid (Sol), Soil (Soil), Domestic Effluent (Dom Eff), Industrial Effluent (Ind Eff)
- "Sample Method" abbreviations: Grab (G), Composite (C)
- "Container Type" abbreviations: Plastic (P), Glass (G)

Relinquished By: (Benchmark)	Sign Name:		Date:	01/24/17	Received By:		Date:	01/24/17
	Print Name:	Annah Jensen	Time:	1600		UPS	Time:	1600
Relinquished By:	Sign Name:		Date:		Received By:		Date:	1-26-17
	Print Name:		Time:				Time:	1015

BENCHMARK

EnviroAnalytical Inc.



FDOH Certification #E84167

Charlotte County Utilities
25550 Harbor View Rd., Unit 1
Port Charlotte, FL 33980

Sandra Lavoie

ANALYTICAL TEST REPORT

THESE RESULTS MEET NELAC STANDARDS

INORGANIC ANALYSIS

62-550.310 (1)

REPORT NUMBER: 17010788 - 001
SYSTEM NAME: WP-14 Pri/Sec Annual
SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
1040	NITRATE NITROGEN	MG/L	3.84		353.2	0.004	01/24/2017	16:24	E84167
1041	NITRITE NITROGEN	MG/L	0.566		SM4500NO2B	0.003	01/24/2017	16:24	E84167
1038	NITRATE+NITRITE AS N	MG/L	4.41		353.2	0.004	01/25/2017	12:39	E84167
1005	ARSENIC	UG/L	0.689	U	SM3113B	0.689	01/26/2017	11:59	E84167
1010	BARIUM	UG/L	12.2		200.7	2	01/25/2017	12:14	E84167
1015	CADMIUM	UG/L	0.900	U	200.7	0.900	01/25/2017	12:12	E84167
1020	CHROMIUM	UG/L	2	U	200.7	2	01/25/2017	12:14	E84167
1025	FLUORIDE	MG/L	0.138		300.0	0.030	01/27/2017	13:52	E84167
1030	LEAD	UG/L	0.670	U	SM3113B	0.670	01/26/2017	14:18	E84167
1035	MERCURY	UG/L	0.198	U	245.1	0.198	01/27/2017	12:01	E84167
1036	NICKEL	UG/L	3.90	I	200.7	1.18	01/25/2017	12:14	E84167
1045	SELENIUM	UG/L	1.57	U	SM3113B	1.57	02/01/2017	16:38	E84167
1052	SODIUM	MG/L	90.1		200.7	0.034	01/25/2017	12:14	E84167
1074	ANTIMONY	UG/L	2.26	U	SM3113B	2.26	01/27/2017	16:51	E84167
1075	BERYLLIUM	UG/L	0.200	I	200.7	0.078	01/25/2017	12:14	E84167
1085	THALLIUM	UG/L	0.981	U	200.9	0.981	01/31/2017	11:35	E84167

SYNTHETIC ORGANICS

62-550.310 (4) (b)

REPORT NUMBER: 17010788 - 001
 SYSTEM NAME: WP-14 Pri/Sec Annual
 SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
2005	ENDRIN	UG/L	0.0067	U	508.1	0.0067	02/09/2017	02:55	E83079
2010	GAMMA-BHC (LINDANE)	UG/L	0.050		508.1	0.0029	02/09/2017	02:55	E83079
2015	METHOXYCHLOR	UG/L	0.0490	C7U	508.1	0.0490	02/09/2017	02:55	E83079
2020	TOXAPHENE	UG/L	0.5800	U	508.1	0.5800	02/09/2017	02:55	E83079
2031	DALAPON	UG/L	0.8900	U	515.3	0.8900	02/09/2017	10:06	E83079
2032	DIQUAT	UG/L	0.86		549.2	0.3000	02/01/2017	06:20	E83079
2033	ENDOTHALL	UG/L	4.3000	U	548.1	4.3000	01/28/2017	02:36	E83079
2034	GLYPHOSATE	UG/L	4.2000	U	547	4.2000	02/02/2017	08:06	E83079
2035	DI(2-ETHYLHEXYL)ADIPATE	UG/L	0.3700	C1U	525.2	0.3700	02/02/2017	18:25	E83079
2036	OXAMYL	UG/L	0.5500	C13U	531.1	0.5500	02/07/2017	12:57	E83079
2037	SIMAZINE	UG/L	0.0660	U	508.1	0.0660	02/09/2017	02:55	E83079
2039	DI(2-ETHYLHEXYL)PHTHALATE	UG/L	0.5400	U	525.2	0.5400	02/02/2017	18:25	E83079
2040	PICLORAM	UG/L	0.0940	U	515.3	0.0940	02/09/2017	10:06	E83079
2041	DINOSEB	UG/L	0.1600	U	515.3	0.1600	02/09/2017	10:06	E83079
2042	HEXACHLOROCYCLOPENTADIENE	UG/L	0.0310	U	508.1	0.0310	02/09/2017	02:55	E83079
2046	CARBOFURAN	UG/L	0.3200	U	531.1	0.3200	02/07/2017	12:57	E83079
2050	ATRAZINE	UG/L	0.0610	U	508.1	0.0610	02/09/2017	02:55	E83079
2051	ALACHLOR	UG/L	0.0340	U	508.1	0.0340	02/09/2017	02:55	E83079
2063	2,3,7,8-TCDD	PG/L	0.677	U	1613B	0.677	02/06/2017		E87688
2065	HEPTACHLOR	UG/L	0.0120	U	508.1	0.0120	02/09/2017	02:55	E83079
2067	HEPTACHLOR EPOXIDE	UG/L	0.0029	U	508.1	0.0029	02/09/2017	02:55	E83079
2105	2,4-D	UG/L	0.0810	U	515.3	0.0810	02/09/2017	10:06	E83079
2110	2,4,5-TP (SILVEX)	UG/L	0.1600	U	515.3	0.1600	02/09/2017	10:06	E83079
2274	HEXACHLOROBENZENE	UG/L	0.0180	C7U	508.1	0.0180	02/09/2017	02:55	E83079
2306	BENZO(A)PYRENE	UG/L	0.0120	U	525.2	0.0120	02/02/2017	18:25	E83079
2326	PENTACHLOROPHENOL	UG/L	0.0300	U	515.3	0.0300	02/09/2017	10:06	E83079
2383	PCB, TOTAL	UG/L	0.0770	U	508.1	0.0770	02/09/2017	02:55	E83079
2959	CHLORDANE (TECHNICAL)	UG/L	0.0450	U	508.1	0.0450	02/09/2017	02:55	E83079

RADIONUCLIDES

62-550.310 (6)

REPORT NUMBER: 17010788 - 001

SYSTEM NAME: WP-14 Pri/Sec Annual

SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
	RADIUM-226/228 COMBINED	PCI/L	0.9	U	903.1/Ra-05	0.9	02/10/2017	13:13	E83033
4000	GROSS ALPHA	PCI/L	1.8	U	900.0	1.8	02/07/2017	09:57	E83033
4020	RADIUM-226	PCI/L	0.3+/-0.2		903.1	0.2	02/10/2017	13:13	E83033
4030	RADIUM-228	PCI/L	0.9	U	Ra-05	0.9	02/09/2017	13:15	E83033

SECONDARY CONTAMINANTS

62-550.320

REPORT NUMBER: 17010788 - 001

SYSTEM NAME: WP-14 Pri/Sec Annual

SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
	COLOR PH	UNITS	7.33		SM4500H+B		01/25/2017	10:12	E84167
1002	ALUMINUM	UG/L	32.4	I	200.7	23	01/25/2017	12:14	E84167
1017	CHLORIDE	MG/L	94.9		300.0	0.353	01/30/2017	13:09	E84167
1022	COPPER	UG/L	4	U	200.7	4	01/25/2017	12:14	E84167
1025	FLUORIDE	MG/L	0.138		300.0	0.030	01/27/2017	13:52	E84167
1028	IRON	UG/L	57.4	I	200.7	29	01/25/2017	12:14	E84167
1032	MANGANESE	UG/L	16.1		200.7	0.98	01/25/2017	12:14	E84167
1050	SILVER	UG/L	0.500	I	200.7	0.5	01/25/2017	12:14	E84167
1055	SULFATE	MG/L	108		300.0	0.339	01/30/2017	13:09	E84167
1095	ZINC	UG/L	47.0		200.7	1.4	01/25/2017	12:14	E84167
1905	COLOR, APPARENT	PCU	35		SM2120B	2.5	01/25/2017	10:12	E84167
1930	TOTAL DISSOLVED SOLIDS	MG/L	452		SM2540C	7.26	01/30/2017	14:15	E84167
2905	SURFACTANTS	MG/L	0.052	I	SM5540C	0.03	01/25/2017	09:00	E84167

INORGANIC ANALYSIS

62-550.310 (1)

REPORT NUMBER: 17010788 - 002

SYSTEM NAME: WP-14 Pri/Sec Annual

SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
1024	CYANIDE	MG/L	0.005	U	335.4	0.005	01/25/2017	15:28	E84167

DISINFECTION BYPRODUCTS

62-550.310 (3)

REPORT NUMBER: 17010788 - 002

SYSTEM NAME: WP-14 Pri/Sec Annual

SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
2941	CHLOROFORM	UG/L	2.11		624	0.5	01/26/2017	14:18	E84167
2942	BROMOFORM	UG/L	0.5	U	624	0.5	01/26/2017	14:18	E84167
2943	DICHLOROBROMOMETHANE	UG/L	0.5	U	624	0.5	01/26/2017	14:18	E84167
2944	DIBROMOCHLOROMETHANE	UG/L	0.5	U	624	0.5	01/26/2017	14:18	E84167
2950	TRIHALOMETHANES, TOTAL	UG/L	2.11		624	0.5	01/26/2017	14:18	E84167

VOLATILE ORGANICS

62-550.310 (4) (a)

REPORT NUMBER: 17010788 - 002

SYSTEM NAME: WP-14 Pri/Sec Annual

SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
2378	1,2,4-TRICHLOROBENZENE	UG/L	0.5	U	624	0.5	01/26/2017	14:18	E84167
2380	CIS-1,2-DICHLOROETHENE	UG/L	0.5	U	624	0.5	01/26/2017	14:18	E84167
2955	XYLENES	UG/L	0.5	U	624	0.5	01/26/2017	14:18	E84167
2964	METHYLENE CHLORIDE	UG/L	0.5	U	624	0.5	01/26/2017	14:18	E84167
2968	O-DICHLOROBENZENE	UG/L	0.5	U	624	0.5	01/26/2017	14:18	E84167
2969	PARA-DICHLOROBENZENE	UG/L	0.5	U	624	0.5	01/26/2017	14:18	E84167
2976	VINYL CHLORIDE	UG/L	0.5	U	624	0.5	01/26/2017	14:18	E84167
2977	1,1-DICHLOROETHENE	UG/L	0.5	U	624	0.5	01/26/2017	14:18	E84167
2979	TRANS-1,2-DICHLOROETHENE	UG/L	0.5	U	624	0.5	01/26/2017	14:18	E84167
2980	1,2-DICHLOROETHANE	UG/L	0.5	U	624	0.5	01/26/2017	14:18	E84167
2981	1,1,1-TRICHLOROETHANE	UG/L	0.5	U	624	0.5	01/26/2017	14:18	E84167
2982	CARBON TETRACHLORIDE	UG/L	0.5	U	624	0.5	01/26/2017	14:18	E84167
2983	1,2-DICHLOROPROPANE	UG/L	0.5	U	624	0.5	01/26/2017	14:18	E84167
2984	TRICHLOROETHENE	UG/L	0.5	U	624	0.5	01/26/2017	14:18	E84167
2985	1,1,2-TRICHLOROETHANE	UG/L	0.5	U	624	0.5	01/26/2017	14:18	E84167
2987	TETRACHLOROETHENE	UG/L	0.5	U	624	0.5	01/26/2017	14:18	E84167
2989	MONOCHLOROBENZENE	UG/L	0.5	U	624	0.5	01/26/2017	14:18	E84167
2990	BENZENE	UG/L	0.5	U	624	0.5	01/26/2017	14:18	E84167
2991	TOLUENE	UG/L	0.5	U	624	0.5	01/26/2017	14:18	E84167
2992	ETHYLBENZENE	UG/L	0.5	U	624	0.5	01/26/2017	14:18	E84167
2996	STYRENE	UG/L	0.5	U	624	0.5	01/26/2017	14:18	E84167

SYNTHETIC ORGANICS

62-550.310 (4) (b)

REPORT NUMBER: 17010788 - 002

SYSTEM NAME: WP-14 Pri/Sec Annual

SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
2931	1,2-DIBROMO-3-CHLOROPROPANE	UG/L	0.014	U	504.1	0.014	01/25/2017	16:33	E84167
2946	ETHYLENE DIBROMIDE	UG/L	0.01	U	504.1	0.01	01/25/2017	16:33	E84167

SECONDARY CONTAMINANTS

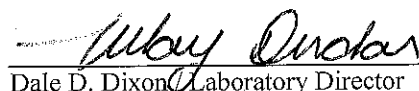
62-550.320

REPORT NUMBER: 17010788 - 002

SYSTEM NAME: WP-14 Pri/Sec Annual

SYSTEM ID:

PARAMETER ID	PARAMETER NAME	UNITS	ANALYSIS RESULT	QUALIFIER	ANALYTICAL METHOD	MDL	ANALYSIS DATE	ANALYSIS TIME	LAB ID
1925	PH	UNITS	7.35	Q	SM4500H+B		01/24/2017	15:29	E84167



02/21/2017

Dale D. Dixon Laboratory Director

Date

Tülay Tanrisever / QC Officer

Deborah A. Murphy / Project Manager

DATA QUALIFIERS THAT MAY APPLY:

I = Reported value is between the laboratory MDL and the PQL. PQL = 4 x MDL.

J = Estimated value.

J3 = Estimated value. Quality control criteria for precision or accuracy not met.

J4 = Estimated value. Sample matrix interference suspected.

Q = Sample held beyond accepted hold time.

U = Analyte analyzed but not detected at the value indicated.

V = Analyte detected in sample and method blank. Results for this analyte in associated samples may be biased high. Standard,

Duplicate, and Spike values are within control limits. Reported data are usable.

NOTES:

ND = Not Detected at or above adjusted reporting limit.

MBAS calculated as LAS; molecular weight = 340

X = Value exceeds MCL.

C1 = Estimated value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery

C7 = Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

C13 = The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

Surrogate method 531.1 = Analysis performed on an improperly preserved sample. Data may be inaccurate.

For questions and comments regarding these results, please contact us at (941) 723-9986.

Results relate only to the samples.

Benchmark EnviroAnalytical, Inc.

1711 Twelfth Street East
 Palmetto, FL 34221
 (941) 723-9986
 (941) 723-6061 fax
 WWW.Benchmark.com

Client: Charlotte County Utilities
 West Port WWTP
 15005 Cattle Dock Rd.
 Port Charlotte FL 33981
 (941) 697-4888
 (941)627-1210

Chain of Custody Form: Annual West Port Primary & Secondary Analysis (Jan.)
 Method of Discharge: Wastewater Sample Matrix²: WW

Laboratory Submission #: **17010788**

Sample ID	Sample Type ¹	Sb, As, Ba, Be, Cd, Cr, Pb, Hg, Ni, Se, Na, Tl Al, Cu, Fe, Mn, Ag, Zn	Cl, SO ₄ , TDS, NO ₂ , Fluoride Color/pH	Gross α, Radium-226 & 228 Radium 226/228 Combined	NO ₃ -NO ₂ NO ₃	MBAS (Foaming Agents)	Dioxin	SOC's (Pesticides and PCB's)						EDB/BCP 504.1	THM's VOCs (21) (624) ***	pH ****	CN	Lab ID #
								Carbamates 531.1	Pesticides 508	Herbicides 515.3	Semivolatile 525.2	Glyphosate 547	Endothal 548.1					
		1:4 HNO ₃ pH<2	Plain	1:4 HNO ₃ pH<2	1:4 H ₂ SO ₄ pH<2	Plain	Plain	MCAA Na ₂ S ₂ O ₃	Na ₂ S ₂ O ₃ 1:1 HCl*	Na ₂ S ₂ O ₃	Na ₂ S ₂ O ₃ 1:1 HCl*	Na ₂ S ₂ O ₃	Na ₂ S ₂ O ₃	Na ₂ S ₂ O ₃ H ₂ SO ₄ *	Na ₂ S ₂ O ₃	Na ₂ S ₂ O ₃ 1:1 HCl*	Plain	NaOH pH>9
		1 x 1 Quart Plastic	1 x 1 Qt. Plastic	1 x 2 Quart Plastic	1 x 1/2 Pint Plastic	1 x 1 Qt. Plastic	2 x 1 Lt. Amber Glass	2 x 40mL Glass Vials	1 x 1 Liter Glass	1 x 250mL Glass	1 x 1 Liter Glass	2 x 40mL Glass Vials	1 x 500mL Amber Glass	1 x 1 Liter Plastic	2 x 40mL Glass Vials	3 x 40mL Glass Vials	1 x 1/2 Pt. Plastic	1 x 250mL Plastic
WP-14	24hr Comp	Start Date & Time: 0700 1-23-17 End Date & Time: 0700 1-24-17														1		
	Grab	Date & Time: 1-24-17 0700														2		

*Add 3 drops of HCl to each bottle. **Add entire vial of HCl / H₂SO₄ to sample bottle.
 *** Fill all 3 vials completely; there can be NO AIR BUBBLES.
 ****pH received after 15 minute hold time, ok to run analysis.

Field pH: 7.1 Field Turbidity: 0.50

¹ "Sample Type" is used to indicate whether the sample was a grab (G) or whether it was a composite (C).
² "Sample Matrix" is used to indicate whether the sample is being discharged to drinking water (DW), groundwater (GW), surface water (SW), soil, sediment (SDMNT), or sludge (SLDG).
³ "Container Type" is used to indicate whether the container is plastic (P) or glass (G).
⁴ Sample must be refrigerated or stored in wet ice after collection. The maximum temperature during storage should be 4°C (39.2°F). Under "Preservative," list any preservatives that were added to the sample container.

Instructions:
 1. Each bottle has a label identifying sample ID, premeasured preservative contained in the bottle, sample type, client ID, and parameters for analysis. The following information should be added to each bottle label after collection with permanent black ink: date and time of collection, sampler's name or initials, and any field number or ID.
 2. All bottles not containing preservative may be rinsed with appropriate sample prior to collection.
 3. The client is responsible for documentation of the sampling event. Please note special sampling events on the sample custody form.

Laboratory Sample Acceptability:
 pH < 7
 BEAS Temperature:
 BEA Temperature: 2.4°C

1	Collector: <u>Michael Bloom</u>	Date: <u>1-24-17</u>	Time: <u>0700</u>	Received By: <u>Ed Egan</u>	Date: <u>1-24-17</u>	Time: <u>0745</u>
2	Relinquished by: <u>Ed Egan</u>	Date: <u>1-24-17</u>	Time: <u>0905</u>	Received By: <u>Elyse</u>	Date: <u>1/24/17</u>	Time: <u>0905</u>
3	Relinquished by: <u>Elyse</u>	Date: <u>01/24/17</u>	Time: <u>1140</u>	Received By: <u>Amy Naubon</u>	Date: <u>01/24/17</u>	Time: <u>1140</u>
4	Relinquished by: <u>Amy Naubon</u>	Date: <u>1/24/17</u>	Time: <u>1410</u>	Requested For Lab By: <u>[Signature]</u>	Date: <u>1/24/17</u>	Time: <u>1410</u>

INTERLABORATORY SAMPLE TRANSMITTAL FORM

Benchmark EnviroAnalytical, Inc.
 1711 12th Street East
 Palmetto, FL 34221
 (941) 723-9986
 (941) 723-6061 fax

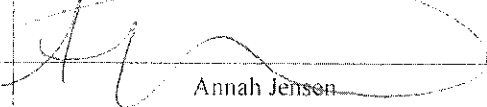
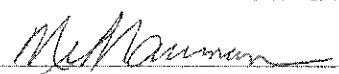
Office QC Check: _____
 Bottle Check: _____

10 BUSINESS DAY T.A.T. PLEASE

Date:	01/24/17		
# of Samples:	1	Total # of Bottles:	1
Method of Shipment:	Courier		
Subcontract Laboratory:	Florida Radiochemistry 5456 Hoffner Ave. #201 Orlando, FL 32812 Phone: 407-382-7733 Fax: 407-382-7744		
Page	1	of	1

Laboratory Submission #	Collection		Sample Matrix*	Collection Method**	Preservative	Container			Parameters	Field Conductivity $\mu\text{s/cm}$
	Date	Time				Qty	Capacity	Type***		
17010788-1	01/24/17	0700	WW	24 Hr. Comp.	1:4 HNO ₃	1	2 Qt	P	Gross Alpha, Radium 226 & 228	

* Sample Matrix abbreviations: Groundwater (GW), Surface Water (SW), Saline Surface Water (SSW), Fresh Surface Water (FSW), Drinking Water (DW), Sludge (Sltdg), Solid (Sol), Soil (Soil), Domestic Effluent (Dom Eff), Industrial Effluent (Ind Eff).
 ** Sample Method abbreviations: Grab (G), Composite (C), 24 Hour Composite (24HR Comp.)
 *** Container Type abbreviations: Plastic (P), Glass (G).

Relinquished By: (Benchmark)	Sign Name: 	Date:	Received By: 	Date:	2-1-17
	Print Name: Annah Jensen	Time:		Time:	11:45
Relinquished By:	Sign Name:	Date:	Received By:	Date:	
	Print Name:	Time:		Time:	

INTERLABORATORY SAMPLE TRANSMITTAL FORM

Benchmark EnviroAnalytical, Inc.
 1711 12th Street East
 Palmetto, FL 34221
 (941) 723-9986
 (941) 723-6061 fax
 www.Benchmark.com
 Office QC Check: _____
 Bottle Check: _____

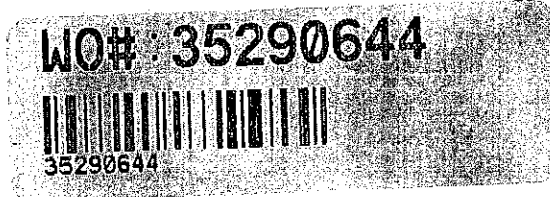
Date:	01/24/17		
# of Samples:	1	Total # of Bottles:	9
Method of Shipment:	Hand Delivery		
Subcontract Laboratory:	E83079 - Pace Analytical Service Inc; 8 East Tower Circle; Ormond Beach, FL 32175 Joe Vodrik; 1-800-966-5668		
Page	1	of	1

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Laboratory Submission #	Collection		Sample Matrix*	Collection Method**	Preservative	Container			Parameters SOC's (Pesticides and PCB's)	Comments
	Date	Time				Qty	Capacity	Type***		
17010788-1	01/24/17	0700	WW	24 Hr. Comp.	MCAA Na ₂ S ₂ O ₃	2	40mL	G	Carabamates (531.1)	*
					Na ₂ S ₂ O ₃ HCl	1	1 L	G	Pesticides (508)	*
					Na ₂ S ₂ O ₃	1	250mL	G	Herbicides (515.3)	*
					Na ₂ S ₂ O ₃ HCl	1	1 L	G	Semivolatiles (525.2)	*
					Na ₂ S ₂ O ₃	2	40mL	G	Glyphosate (547)	*
					Na ₂ S ₂ O ₃	1	500mL	G	Endothall (548.1)	*
					Na ₂ S ₂ O ₃ H ₂ SO ₄	1	1 L	P	Diquat (549.2)	*
									*Do NOT Dilute sample, Call Dale Dixon for OK first!	

* Sample Matrix abbreviations: Groundwater (GW), Surface Water (SW), Saline Surface Water (SSW), Fresh Surface Water (PSW), Drinking Water (DW), Sludge (Slgd), Solid (Sol), Soil (Soil), Domestic Effluent (Dom Eff), Industrial Effluent (Ind Eff).
 ** Sample Method abbreviations: Grab (G), Composite (C), 24 Hour Composite (24HR Comp).
 *** Container Type abbreviations: Plastic (P), Glass (G).

Relinquished By: (Benchmark)	Sign Name:	<i>[Signature]</i>	Date:	01/25/17	Received By:	<i>[Signature]</i>	Date:	1/25/17
	Print Name:	Annali Jensen	Time:	0830		<i>[Signature]</i>	Time:	0915
Relinquished By:	Sign Name:	<i>[Signature]</i>	Date:	1/25/17	Received By:	<i>[Signature]</i>	Date:	1/25/17
	Print Name:		Time:	1053		<i>[Signature]</i>	Time:	



INTERLABORATORY SAMPLE TRANSMITTAL FORM


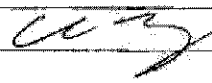
Benchmark EnviroAnalytical, Inc.
 1711 12th Street East
 Palmetto, FL 34221
 (941) 723-9986
 (941) 723-6061 fax
 WWW.Benchmarkea.com
 Office QC Check: _____
 Bottle Check: _____

Date:	01/24/17		
# of Samples:	1	Total # of Bottles:	2
Method of Shipment:	UPS -- 2 Day Air		
Subcontract Laboratory:	Summit Environmental 3310 Win Street Cuyahoga Falls, Ohio. 44223 (330) 253-8211		
Page	1	of	1

Laboratory Submission #	Collection		Sample Matrix ¹	Collection Method ²	Preservative	Container			Parameters	Comments
	Date	Time				Qty	Capacity	Type ³		
17010788-1	01/24/17	0700	WW	24 Hr Comp.	Plain	2	950mL	G	Dioxin	

17011252-001 (SL)

1. "Sample Matrix" abbreviations: Groundwater (GW), Surface Water (SW), Drinking Water (DW), Sludge (Slgd), Solid (Sol), Soil (Soil), Domestic Effluent (Dom Eff), Industrial Effluent (Ind Eff)
2. "Sample Method" abbreviations: Grab (G), Composite (C)
3. "Container Type" abbreviations: Plastic (P), Glass (G)

Relinquished By: (Benchmark)	Sign Name:		Date:	01/24/17	Received By:		Date:	01/24/17
	Print Name:	Annah Jensen	Time:	1600			UPS	Time:
Relinquished By:	Sign Name:		Date:		Received By:		Date:	1-26-17
	Print Name:		Time:					Time: