



GHS Environmental
PO Box 55802
St. Petersburg, FL 33732-5802
727-667-6786

October 20, 2016

Mr. Todd Mathes
Benderson Corporation
8441 Cooper Creek Blvd.
University Park, FL 34201

**Re.: University Town Center: 2016 Surface & Ground Water Quality Monitoring
September SW Semi-Annual Sampling Event**

Dear Mr. Matthews,

In accordance with Exhibit G of the Development of Regional Impact for Sarasota County, GHS Environmental, LLC (GHS) was contracted to conduct the ongoing surface water and groundwater quality monitoring programs for the University Town Center. Semi-annual surface water samples were collected on September 27, 2016.

The University Town Center is located to the southwest of the intersection of I-75 and University Parkway (SR610) between the cities of Sarasota and Bradenton. The property currently includes a major commercial shopping center that parallels I-75 on the western side of the property, and the first phase that includes the commercial shopping mall located on the northwestern corner of the development was completed in 2008. The regional mall, major hotels, additional outparcel shops, and housing are currently being added.

The methodology for the 2011 surface water monitoring is based on the approved water quality monitoring plan Exhibit G. At each station, grab samples are collected at mid-depth and approximately mid-stream, when the sampling site is inundated with surface water that is at least one inch (1") in depth. In situ measurements of dissolved oxygen, pH, air temperature, water temperature, and specific conductance are performed in the field using a YSI Pro Plus Multi-Parameter Water Quality Meter that is calibrated according to the manufacturer's specifications prior to deployment in the field. Instantaneous flow measurements are determined at each surface water monitoring location at times of apparent flow. Flow is determined using a Hach FH950 Portable flow meter with measurements reported in units of cubic feet per second (cfs).

As per the monitoring plan, the surface water samples were analyzed for the entire parameter list, which includes nutrients, bacteriologicals, suspended solids and chlorinated hydrocarbon pesticides. The summary of the results is listed in Table 1, and the laboratory reports and chain of custody copies are attached. The laboratory results showed that there were several exceedances of the field parameters as outlined in Ch. 62-302, F.A.C. The next sampling event is scheduled for December 2016 and will be a quarterly event with the reduced list of parameters.

We thank you for allowing GHS Environmental, LLC to provide our services. Please do not hesitate to call us at (727) 667-6786 with any questions.

Sincerely yours,
GHS Environmental

A handwritten signature in black ink, appearing to read 'Dana J. Gaydos', is written over a light blue horizontal line.

Dana J. Gaydos
Principal

Table 1. UTC Surface Water Quality Summary Table - September 27, 2016.

Parameter	FAC 62-302 Criteria	SW-1	SW-2
Average Water Depth (ft)		1.24	1.60
Maximum Water Depth (ft)		2	2.5
Cross Section (ft)		20	23
Maximum Measured Flow Rate (ft/s)		1.30	1.02
Stream Flow (gpm)		21.1	20.1
Air Temperature (°C)		28.4	30.4
Water Temperature (°C)		30.9	30.1
pH (pH Units)	6.0 - 8.5	8.53	7.81
Specific Conductivity (µmhos/cm)	<50% increase; <1275 µmhos/cm	352.0	347.6
Dissolved Oxygen (%)		26.6	12.9
Dissolved Oxygen (mg/L)	≥ 5.0 mg/L	1.99	0.97
Turbidity (NTU)	<29 NTU above background	7.3	5.5
Total Suspended Solids (mg/L)		2.0	1.6
Ammonia Nitrogen (mg/L)		0.08 (I)	0.08 (I)
Nitrate as N (mg/L)		U	U
Nitrite as N (mg/L)		U	U
Total Kjeldahl Nitrogen (mg/L)		0.96 (J4)	0.73
Total Nitrogen (mg/L)		1.04	0.81
Orthophosphate (mg/L)		U	0.030
Total Phosphorus (mg/L)		U	0.048 (I)
Arsenic (mg/L)		0.0039 (I)	0.0026 (I)
Cadmium (mg/L)		U	U
Chromium (mg/L)		0.0019 (I,V)	0.0020 (I,V)
Copper (mg/L)		0.0020 (I,V)	0.0019 (I,V)
Lead (µg/L)	≤ 5.3 µg/L	U	U
Mercury (µg/L)		U	U
Nickel (mg/L)		U	U
Zinc (mg/L)		0.0046 (I,V)	0.0042 (I,V)
HEM - Oil & Grease (mg/L)		U	U
Biochemical Oxygen Demand (mg/L)		3.6	U
Fecal Coliform (CFU/100 mL)		109 (B)	200
Total Coliform (CFU/100 mL)	< 2,400	6910 (B)	9910 (B)
Chlorinated Hydrocarbon Pesticides*		U all parameters except below	
alpha-BHC		U	0.012 (I)
delta-BHC		U	0.013 (I)
Heptachlor Epoxide		U	0.013 (I)
Methoxychlor		0.052 (I)	U

* All parameters are listed in the attached lab report in Appendix B.

x.xx - Outside of acceptable limits as established by Ch. 62-302, F.A.C.

B - Results based on colony counts outside the acceptable range.

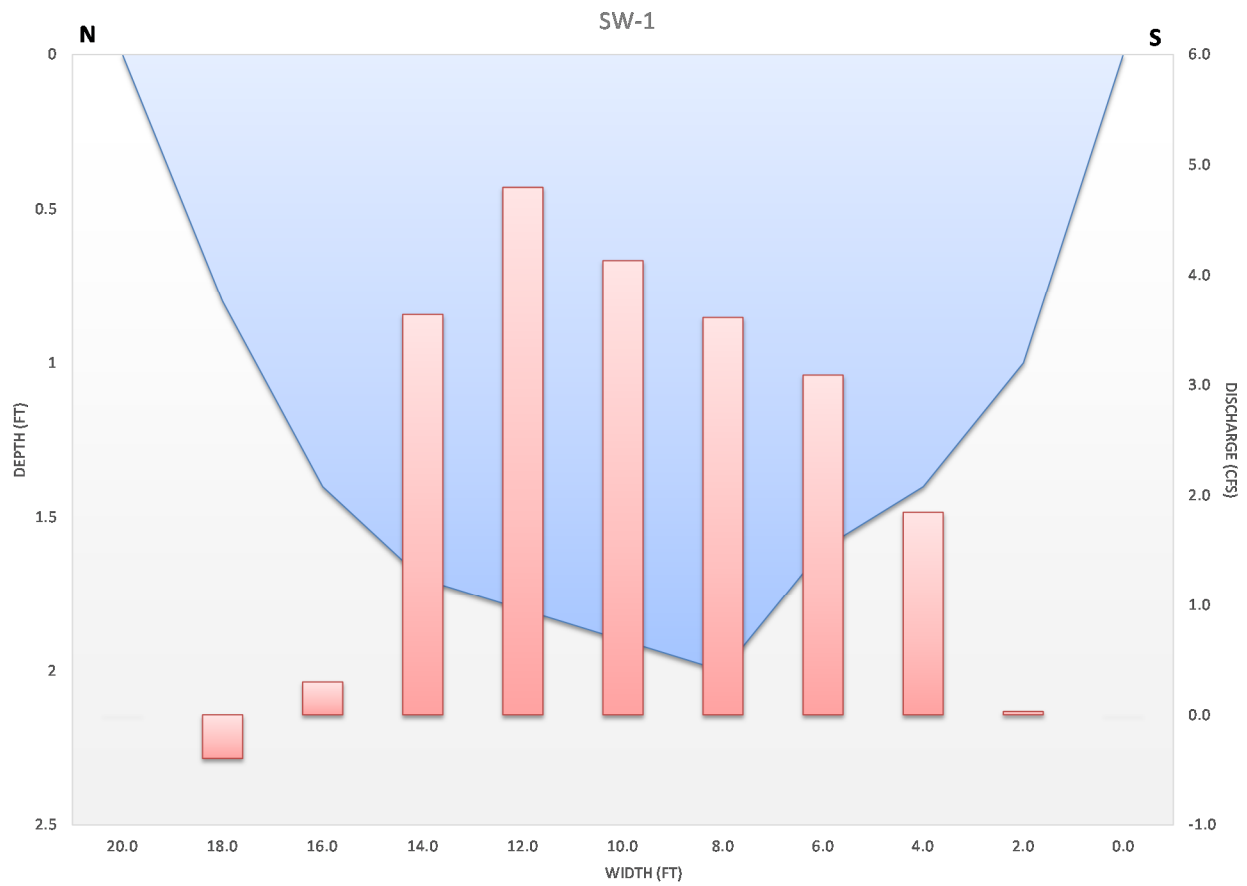
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

J4 - Estimated result.

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

V - Method blank contamination.

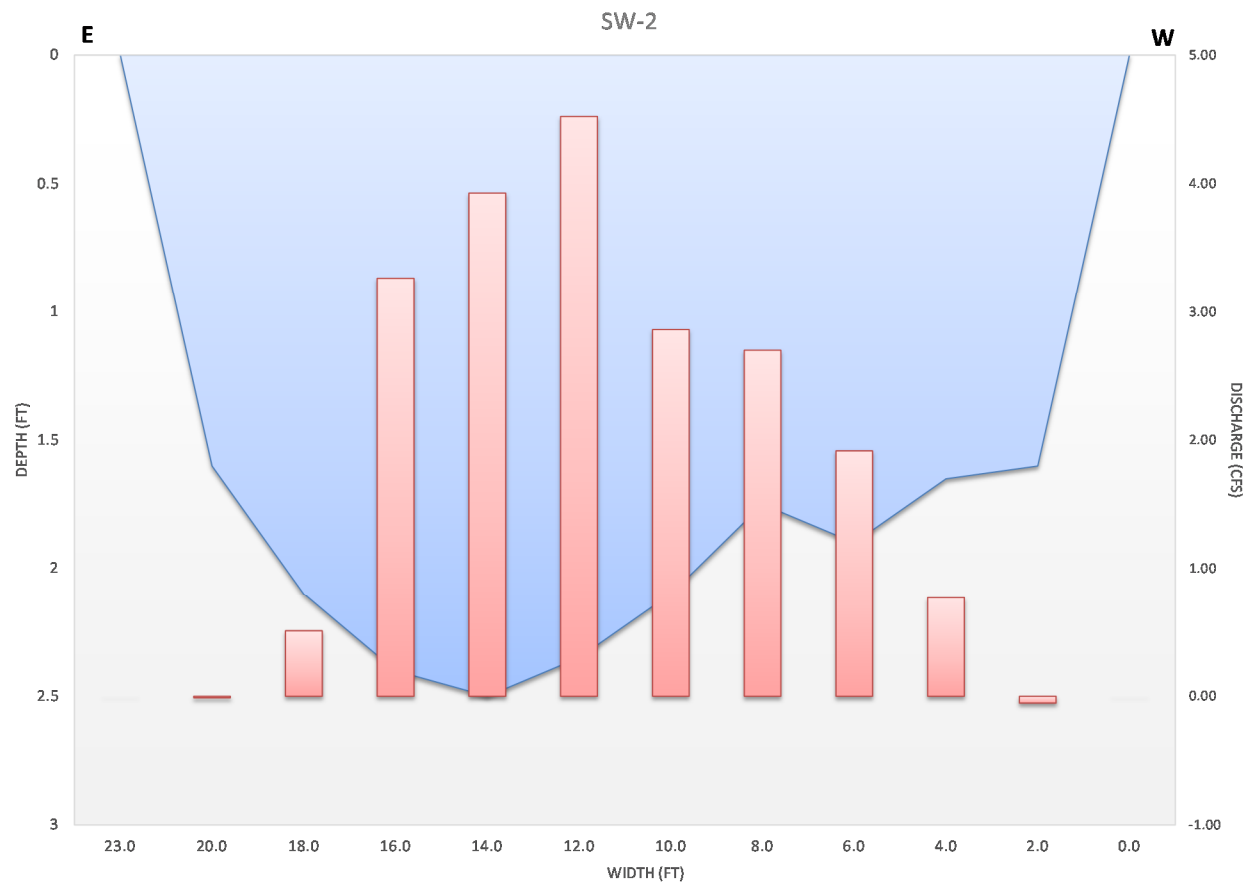
SW-1: Discharge.



SW-1.



SW-2: Discharge.



SW-2: Upstream.

