

March 31, 2011

Mr. Daniel Ahern, P.E.
Storm Water Program Manager
Beaufort County Public Works
120 Shanklin Road
Beaufort, South Carolina 29906

Re: Year 2009-2010 Annual Report
Beaufort County Storm Water Monitoring
Beaufort County, South Carolina

Dear Mr. Ahern:

Enclosed is the Year 2009-2010 Annual Report for the project, titled "Beaufort County Storm Water Monitoring, Beaufort County, South Carolina." If I can answer any questions or provide you with additional information regarding this report, please contact me at (843) 769-7378.

Yours very truly,

Joseph E. Coffey, Jr., P.E.
Director

enclosures

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YEAR 2009-2010 REPORT
Beaufort County Storm Water Monitoring
Beaufort County, South Carolina

Submitted to:

Beaufort County Public Works
120 Shanklin Road
Beaufort, South Carolina 29906

Submitted by:

GEL Engineering, LLC
A Member of THE GEL GROUP, INC.
2040 Savage Road
Charleston, South Carolina 29407

Submittal Date: March 31, 2011

YEAR 2009-2010 REPORT

Beaufort County Storm Water Monitoring

Beaufort County, South Carolina

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YEAR 2009-2010 REPORT

Beaufort County Storm Water Monitoring

Beaufort County, South Carolina

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Beaufort County Storm Water Monitoring

Beaufort County, South Carolina

EXECUTIVE SUMMARY

The Beaufort County Water Quality Monitoring Program was developed to achieve the four primary goals identified in the Storm Water Management Plan (SWMP) and support the county's future implementation of this plan. The four primary goals are: 1) establish baseline water quality; 2) determine and track long-term trends to measure effectiveness of current best management practices (BMPs); 3) conduct bacterial source tracking and; 4) measure efficiency of selective BMPs. Table 1 shows the recommended tributary sampling as indicated in the SWMP. GEL Engineering, LLC (GEL) was selected by Beaufort County to implement the water quality monitoring program.

With regard to the Year 3 (2009-2010) sampling and analysis activities, adjustments were made to allow Beaufort County to more closely monitor fecal coliform levels in particularly sensitive areas. BST, also referred to as Microbial Source Tracking, or MST, was added and took place beginning in February 2009, and continued through March 2009. Due to the inconclusive nature of the data derived during the additional BST, it was determined that remaining funds that were to be utilized for the tracking of potential bacterial sources were best spent determining existing baseline water quality for future evaluation of BMP effectiveness.

Additionally, due to elevated concentrations of copper at Eagles Point, expanded copper evaluations began at the Eagles Point sample stations (BMP-Out and Pinckney Colony). Flow meters were also installed at these sample collection sites for the purpose of performing load calculations. Furthermore, based on the Eagles Point monitoring results and Beaufort County's desire to evaluate the performance/efficiency on an existing structural BMP (ex., a detention pond), the County intends to identify another BMP site to evaluate.

There are limited conclusions that can be drawn from the data collected thus far:

- A few of the sample collection sites remain under the influence of salt water due to tidal intrusion and should be relocated.
- Some sample collection sites have consistently demonstrated good water quality and Beaufort County elected to discontinue collecting data at these sites.

- Data collected since the onset of the County’s monitoring program suggests that the data initially used by CDM to calibrate their storm water model is higher than the data collected from the present storm water monitoring program.

YEAR 2009-2010 REPORT

Beaufort County Storm Water Monitoring

Beaufort County, South Carolina

1.0 Year 3 Storm Water Monitoring

GEL was retained to continue the storm water monitoring program that was initiated in June 2007. During Year 3, GEL:

- Continued monitoring all established stations in response to a qualified storm event rather than on a set schedule;
- Reported sample values exceeding “action levels” to Beaufort County for those parameters with “critical exceedence concentrations”;
- Routinely met with Beaufort County to review the latest data, and;
- Made adjustments to sample locations, parameters measured, etc. based on the monitoring results, data review, and monitoring program directives supplied by Beaufort County.

Table 2 summarizes the stations monitored during Year 3 including their name, watershed, receiving water body and classification, etc., and most importantly their purpose.

1.1 Sample Locations and Purpose

Since initiation of the storm water monitoring program, the selection and identification of appropriate sampling sites for grab sampling and automatic storm event sampling has been based on the water quality sensitivity analysis (modeling), the current level of service for water quality segments, and the existing and future land use classifications. During Year 3, six trending sites were maintained, fourteen existing water quality stations were monitored, and additional data was collected to characterize the high and medium density residential runoff stations, as well as the addition of a station for copper evaluation. Note that two additional existing water quality sites were initiated in Year 3 (refer to Table 2), and their purpose will be further discussed in Section 2 of this report. All sites monitored during Year 3 are displayed on Figure 1.

1.2 Qualifying Storm Events

During Year 3, GEL collected grab samples and conducted field measurements at all stations following a storm event that was greater in magnitude than 0.1 inches in magnitude per hour and that occurred at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event.

GEL also conducted monthly composite storm event sampling at seven discrete auto sampler locations, provided that a storm event greater than 0.1 inches in magnitude per hour had not occurred within 72 hours from a previously measurable (greater than 0.1 inch rainfall) storm event. Samples were collected with an automatic sampler that was established and secured in each of the locations. The automatic sampler collected an aliquot every two minutes for the first 30 minutes following a qualifying storm event for a “grab sample,” and then collected a 15 minute aliquot for the next two and a half hours for a composite sample. Based on recommendations from the Year 2 Annual Report, the composite auto sample was no longer collected beginning in September 2009. Instead, a second grab sample was collected when GEL personnel collected the grab from the automatic sampler (referred to as “Grab After” in Tables 3 through 26).

1.3 Sampling/Analytical/QA-QC Procedures

All sampling events were conducted following GEL’s Standard Operating Procedures, United States Environmental Protection Agency (EPA) and SCDHEC approved sampling and analytical protocols, and appropriate safety measures. The table below identifies each parameter analyzed, the method allowable maximum holding time, sample preservative and the analytical method:

Parameter	Holding Time	Sample Preservative	Analytical Method
Fecal Coliform bacteria (FCB)*	24 Hours	Na ₂ S ₂ O ₃	EPA 200.8
Total suspended solids (TSS)	7 Days	4°C	EPA 160.2
Salinity	28 Days	4°C	EPA 120.1
Biochemical oxygen demand (BOD)	48 Hours	4°C	EPA 405.1
Ammonia nitrogen (NH ₃ -N)	28 Days	4°C, H ₂ SO ₄ (pH<2)	EPA 350.1

Nitrite and nitrate nitrogen (NO ₃ + NO ₂)	28 Days	4°C, H ₂ SO ₄ (pH<2)	EPA 353.1
Total Kjeldahl nitrogen (TKN)	28 Days	4°C, H ₂ SO ₄ (pH<2)	EPA 351.2
Total phosphorus (TP)	28 Days	4°C, H ₂ SO ₄ (pH<2)	EPA 365.4
Chlorophyll-a (chl-a)	48 Hours	4°C	SM10200H
Total organic carbon (TOC) - quarterly	28 Days	4°C, H ₂ SO ₄ (pH<2), zero headspace	EPA 415.1
Metals (cadmium, chromium, copper, iron, lead, manganese, mercury, nickel and zinc) — quarterly	6 Months	4°C, HNO ₃ (pH<2)	6010B

** GEL recommended that fecal coliform levels be analyzed using the five-tube dilution method (also known as MPN) since it provides more accurate results for samples containing turbidity and saltwater and is consistent with methods used during the previous monitoring events. Additionally, the standard holding time for fecal coliform is six hours; however, this method allows for a holding time of 24 hours if the sample data is not for potable water and will not be used for compliance purposes.*

Analysis of pH, temperature, dissolved oxygen, turbidity and salinity was performed in the field using a calibrated Series 4a DataSonde, manufactured by Hydrolab. This allowed parameters with a short holding time to be analyzed in-situ at the time of sampling at each sample location, thus providing more accurate results. The results of the field analyses were stored in the Hydrolab and documented on Field Data Information Sheets. Ambient weather conditions noted during each monitoring event included precipitation over the previous 24 hours. In addition, tide levels were noted during the time of sampling at each location. Each of these field parameters was recorded on a Field Data Information Sheet.

While grab and composite samples collected using the auto samplers was described in Section 1.2 of this report, discrete grab samples were collected by lowering a new sampling container directly into the surface water and next transferred to the appropriate laboratory sample containers that have been pre-labeled and containing the appropriate sample preservative. Sampling personnel wore new laboratory-quality, PVC gloves during all sample collection activities, and changed gloves, at a minimum, between each monitoring location. Each sample container was identified with a laboratory label that was completed during collection, and each label included the following information:

- The address and telephone number of GEL;
- A specific client code for the County;

- The parameter to be analyzed from that container;
- The sample identification number/name, and;
- The date and time of sample collection.

A chain of custody form (COC) was completed and maintained throughout sampling and transportation to the laboratory. Samples were transported to GEL Laboratories, LLC, or the designated subcontracted laboratory for analysis. A sufficient amount of freezer packs and/or ice was maintained in the cooler to ensure that the samples remain at the recommended temperature (4° C). The analytical results were submitted to the County no more than 30 days from the date of sample collection. (The COC and analytical certificates were not submitted to the County and are not included within this report, but may be supplied upon request.)

1.4 Bacterial Source Tracking

During Year 3, BST was further investigated due to fecal coliform results in the May River area. The fecal coliform results revealed that water leaving developed areas contained low values of fecal coliform. However, after exiting the developed areas and traversing wetlands, high levels of fecal coliform were present in the water leaving the wetlands. Additional BST efforts were discussed to determine whether the increased fecal coliform was from new sources of contamination in the wetlands (i.e. wildlife) or from existing fecal coliform (i.e. re-growth in the environment) being washed out of the wetlands from increased stormwater flow.

Following conversations with the BST laboratory in Miami, Florida, (Source Molecular Corporation), and the Charleston, South Carolina Branch of the National Oceanic and Atmospheric Association (NOAA), it was determined that the current prevalent BST technologies would not produce results such that high confidence interpretations of data and recommendations could be made regarding the source of fecal coliform in the May River area. Therefore, the recommendation was made to keep controlling storm water volumes and, if necessary in the future, develop a management strategy for wildlife.

2.0 Adjustments Made During Year 3 Monitoring

Several adjustments were made during Year 3 of the storm water monitoring program. During Year 3, two new existing water quality stations were added (BECY-15 and BECY-16), two existing water quality stations were relocated (BECY-4R and Christine Place-R), a copper evaluation station was added (Pinckney Colony), and

sampling from three existing water quality stations was discontinued (BECY-6R, BECY-10, and BECY-11).

2.1 Monitoring Station Changes

During Year 3, two sample stations for relocated. Sample station BECY-4 was relocated due to high salinity. The site was relocated to BECY-4r and its purpose is to evaluate the existing water quality for the east fork of the Okatie River headwaters. Additionally, the existing water quality sample station located at Christine Place was relocated due to concerns that water input from surrounding woodlands was contributing to discharge from the stormwater pond from which samples were collected. The sample site was relocated to Christine Place-R and collected as water directly exited the pond into a drainage ditch. Additionally, the automatic sampler from the site was removed and samples from Christine Place-R are collected as a grab-only station.

In September 2009, sample station Pinckney Colony was added to the sampling efforts. Samples collected from this station are for the purposes of monthly copper evaluation, which is the only analyzed parameter. In conjunction with copper results from BMP-Out, results from the Pinckney Colony station will be used to determine the concentration and potential toxicity of copper exiting the Eagles Point Golf Club.

In February 2010, sample station BECY-15 was added as an existing water quality station. The sample is collected from water exiting an area in which the Beaufort Marine Corps Air Station is completing a wetlands mitigation project. The results from the sampling will be used to evaluate the effects the project has on water quality. In May 2010, sample station BECY-16 was added as an existing water quality station. BECY-16 is used to evaluate the existing water quality of the western fork of the Okatie River headwaters for the purpose of locating a Water Quality Retrofit in the area.

In February 2010, sample efforts at the existing water quality stations BECY-6r, BECY-10, and BECY-11 were discontinued. Sample collection ceased as these stations due to the collection of two years of low-variability data.

2.2 Eagles Point Copper Evaluation

During Year 3, review of quarterly total copper data for sample station BMP-Out revealed copper concentrations exceeding current regulatory standards. Current regulatory standards range from 3.0 to 6.0 micrograms per liter ($\mu\text{g/L}$). In one instance, results from the total copper quarterly sampling produced results exceeding 130 $\mu\text{g/L}$.

The analysis of these samples was for total copper, all of which is not biologically available in aquatic systems.

An analysis for dissolved copper could provide more insight into the potential toxicity within the ecosystem, since dissolved copper tends to be more biologically available. It is important to note that not all dissolved copper is biologically available, but if dissolved copper concentrations were less than the regulatory standards, the measured copper should not be toxic to aquatic organisms. Therefore, in September 2009, monthly sampling at BMP-Out and Pinckney Colony began for both total and dissolved copper to determine if dissolved copper concentrations are greater than existing regulatory standards. Following several months of sampling, the dissolved copper concentrations were greater than the regulatory standards.

Following these results, a sediment sample was collected from the pond basin adjacent to the BMP-Out outfall. These results were used to determine if the sediments in the storm water ponds is a source of copper, which could be washed out during rain events. Based on NOAA Reference Tables for Sediments, the results of the sediment sample analysis indicated that copper concentrations were consistent with background concentrations. Therefore, it was determined that the sediments were not a significant source of the copper concentrations being detected in the BMP-Out samples.

Although the total and dissolved concentrations were greater than the regulatory standards, a large unknown was whether the observed concentrations would be toxic within this aquatic ecosystem. Therefore, with the recommendation of a Beaufort County Stormwater Utility Management Board member, GEL would complete a Biotic Ligand Model (BLM) analysis, consisting of 3 different sampling events. The BLM predicts the metal toxicity and speciation for a particular site based on the ambient water quality. Therefore, by inputting temperature, pH, dissolved organic carbon, cations, anions, alkalinity, and sulfide, the BLM would predict whether measured concentrations of dissolved copper would be toxic in the aquatic ecosystem.

During Year 3, one of the three data sets was collected. The BLM revealed that the observed concentrations of dissolved copper were below the predicted levels of copper toxicity in the aquatic system. However, the remaining two datasets could not be collected in Year 3 due to high water temperatures, for which the BML is not calibrated. The model is only calibrated for water temperature values ranging from 10°C to 25 °C. The remaining two datasets will be collected in Year 4.

2.3 Eagles Point Flow Meters

During Year 3, flow-meters were installed at the two Eagles Pointe outfall points – BMP-Out and Pinckney Colony. The Greyline Instruments, Level-Velocity *Stingray* Logger flow-meters continuously measures and stores water temperature, depth, and velocity data at programmed intervals. Using this data and information about the outfall pipe (i.e. pipe diameter) flow estimates from the system can be calculated. GEL routinely downloads and processes this data and provides the information to Mr. Rick Karkowski of Thomas and Hutton. Mr. Karkowski utilizes this data to perform loading predictions from Eagles Pointe.

3.0 Year 3 Data Analysis

As indicated, GEL's monitoring is being performed to achieve four primary goals identified in the SWMP and support the county's future implementation of this plan. The primary goals are:

1. Perform long-term trend analysis to track BMP effectiveness;
2. Evaluate baseline existing water quality;
3. Confirm model inputs for select structural BMPs; and,
4. Confirm model inputs for runoff quality from land use areas.

3.1 Baseline Existing Water Quality

Stations with higher salinity values indicate the collection of tidally influenced samples rather than those of storm water resulting from a wet weather event. Stations BECY-5 (existing WQ), and BECY-14 (trending) indicate significant salinity. In addition, BECY-2 and BECY-3 indicate elevated salinity values. As a note, due to the elevated salinity concentrations at BECY-5, samples will no longer be collected at this sample station in Year 4.

As indicated, stations with results above the applicable water quality standards should receive a higher priority for implementing future BMPs. Note that all stations have average fecal coliform concentrations greater than the state standard of 14 CFU/100 ml. Based on Year 1-2 results, BECY-4 had an elevated percentage of sample results above the water quality standards for parameters. However, BECY-4 has been relocated to BECY-4R and further sample collection will be required to determine if the new sample location consistently has elevated results for the water quality parameters. Existing WQ stations Southside, BECY-12 and BECY-7ra are also above the average with regard to water quality exceedances.

4.0 Year 3 Conclusions

GEL was retained to continue the storm water quality monitoring during year 2009-2010, while integrating improvements over the existing sampling and analysis program. With GEL and Beaufort County's coordinated efforts, the Year 2009-2010 storm water sampling and analysis was revised to incorporate lessons learned during the previous year. During year 2009-2010, GEL and Beaufort County discontinued the BST efforts with regard to fecal coliform contamination on the May River. This decision was based on limitations with the current BST technologies. In addition to summarizing the Year 2009-2010 storm water monitoring program within this annual report, and, as requested by the Beaufort County Storm Water Utility Board, GEL has listed observations made during year 2009-2010 which we believe are worthy of further consideration with regard to changes in future storm water quality monitoring in Beaufort County:

- Relocating BECY-5 and BECY-14. It is recommended that Beaufort County relocate the two sampling locations due to interference from salt water intrusion. If unable to be relocated, the sample locations should be eliminated since the data collected is not likely storm water runoff. BECY-2 and BECY-3 have demonstrated elevated salinity levels, but not as significant as BECY-5 and BECY-14.
- Southside, BECY-7ra and BECY-12 may be good water quality monitoring sites for implementing future upstream BMPs. As noted above, these sites should not be influenced by salinity and should be true storm water derived samples. However, they have more results above the state water quality standards than other stations.
- Locating a new BMP efficiency site. Presently there is no BMP site identified for the Beaufort County water quality monitoring program.
- Moving runoff sites (BECY-1A and BECY-4A) to new high/medium density residential or industrial/heavy commercial sites. Since the data collected from these existing sampling sites is considerably lower than the data originally used by CDM to calibrate the water quality model, it may be advisable to collect data from other sites to determine how it compares with the model data.

5.0 References

South Carolina Department of Health and Environmental Control, April 25, 2008,
Water Classifications and Standards Regulation 61-68: Bureau of Water.

South Carolina Department of Health and Environmental Control, Shellfish
Sanitation Program Water Monitoring, Assessment and Protection Division,
Environmental Quality Control-Bureau of Water, Annual Update, July 2006
Update.

Beaufort County Storm Water Management Plan, February 20, 2006, Thomas &
Hutton Engineering Co. and Camp Dresser McKee Inc.

Beaufort County Monitoring Program Review, March 24, 2008, Camp Dresser and
McKee Inc.

Biotic Ligand Model Manual, June 2007, HydroQual, Inc.

USEPA, 2005. Microbial Source Tracking Guide Document. Office of Research
and Development, Washington, DC, EPA/600/R-05/064.

USEPA, 2006, Water Quality Standards Database.

Station	Sample Meth	Watershed	Hydrologic Basin	RWB	Classification	Purpose
BECY-1a	Auto	Beaufort River	Southside	Battery Creek	SFH	High Density Res. Runoff
BECY-1.5	Grab	May River	-	-	-	Existing Water Quality
BECY-1	Grab	May River	Stoney Creek	May River	ORW	Trend Analysis
BECY-2	Grab	May River	Tose Dhu Creek	May River	ORW	Trend Analysis
BECY-3	Grab	Colleton River	Okatie West	Okatie River	ORW	Trend Analysis
BECY-4	Grab	Colleton River	Berkley Creek	Okatie River	ORW	Existing Water Quality
BECY-4r	Grab	Colleton River	Okatie East	Okatie River	ORW	Existing Water Quality
BECY-4a	Auto	Morgan River	Rock Springs Creek	Morgan River	SFH	Med. Density Res. Runoff
BECY-5	Grab	Colleton River	Camp St. Marys	Okatie River	ORW	Existing Water Quality
BECY-8r	Grab	Beaufort River	Grober Hill	Battery Creek	SFH	Existing Water Quality
BECY-7ra	Auto	Morgan River	Burton Hill	Battery Creek	SFH	Existing Water Quality
BECY-8r	Grab	Beaufort River	Battery Creek North	Battery Creek	SFH	Trend Analysis
BECY-9ra	Auto	Beaufort River	Battery Creek West	Battery Creek	SFH	Trend Analysis
BECY-10	Grab	Broad River	Habersham Creek North	Broad River	SFH	Existing Water Quality
BECY-11	Grab	Beaufort River	Salt Creek South	Beaufort River	SA	Existing Water Quality
BECY-12	Grab	Beaufort River	Salt Creek	Beaufort River	SA	Existing Water Quality
BECY-13	Grab	Morgan River	Rock Springs Creek	Morgan River	SFH	Existing Water Quality
BECY-14	Grab	Morgan River	Village Creek	Morgan River	SFH	Trend Analysis
BECY-15	Grab	Beaufort River	Salt Creek	Beaufort River	SA	Existing Water Quality
BECY-16	Grab	Colleton River	Okatie West	Okatie River	N/A	Existing Water Quality
BMPep - Out	Auto	N/A	N/A	N/A	N/A	BMP Efficiency
Southside	Auto	-	-	-	-	Existing Water Quality
Pinckney Colony	Grab	N/A	N/A	N/A	N/A	Copper Evaluation
Christine Place	Grab	Morgan River	Lucy Point Creek	Morgan River	SFH	Existing Water Quality

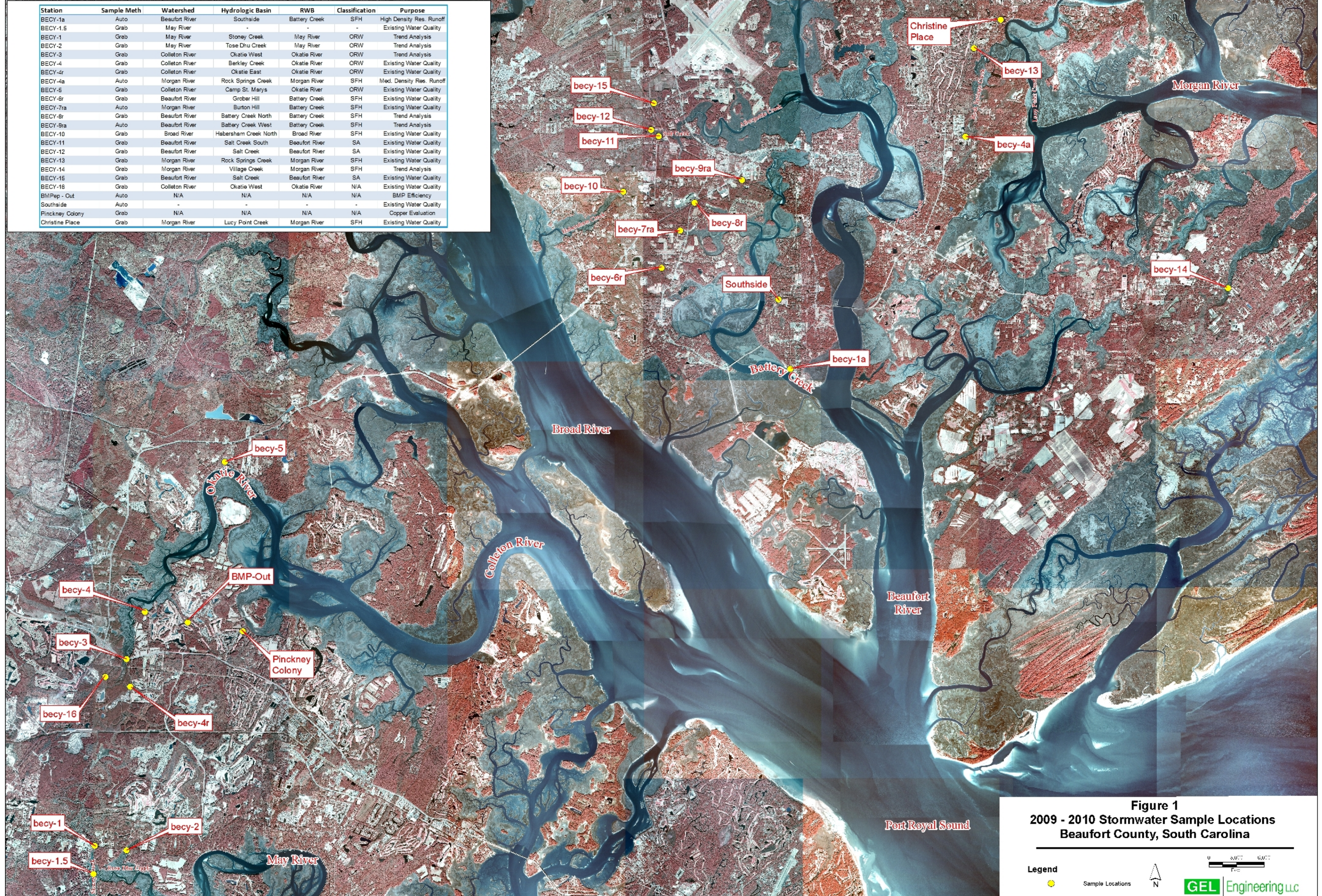


Figure 1
2009 - 2010 Stormwater Sample Locations
Beaufort County, South Carolina

Legend
 ● Sample Locations

Scale: 0 5000 6000 Feet
 North Arrow

GEL Engineering LLC

**Table 1
Recommended Tributary Sample Locations**

Watershed	Hydrologic Basin	% Urban - Future Land Use	% Impervious - Future Land Use	Future Increase in % Urban	Future Increase in % Impervious	Sampling Method	Purpose
Beaufort River	Southside	92%	51%	2%	1%	Automatic	High Density Residential Runoff
Beaufort River	Albergotti Creek	93%	67%	0%	0%	Automatic	Industrial Runoff
Colleton River	Camp St. Marys	48%	8%	16%	2%	Automatic	Low Density Residential Runoff
Morgan River	Rock Springs Creek	96%	22%	7%	2%	Automatic	Medium Density Residential Runoff
Beaufort River	Burton Hill	71%	43%	19%	13%	Grab	Existing Quality ¹
Beaufort River	Grober Hill	53%	25%	12%	3%	Grab	Existing Quality ¹
Beaufort River	Salt Creek	75%	27%	35%	13%	Grab	Existing Quality
Beaufort River	Salt Creek South	78%	30%	41%	11%	Grab	Existing Quality ¹
Beaufort River	Shanklin Road	81%	49%	31%	21%	Grab	Existing Quality ¹
Colleton River	Berkeley Creek	67%	18%	15%	5%	Grab	Existing Quality
Morgan River	Factory Creek	84%	25%	15%	5%	Grab	Existing Quality ¹
Morgan River	Lucy Point	95%	21%	6%	1%	Grab	Existing Quality
Beaufort River	Battery Creek North	90%	67%	55%	43%	Grab	Trend Analysis ¹
Beaufort River	Battery Creek West	82%	28%	50%	10%	Grab	Trend Analysis ¹
Colleton River	Okatie West	83%	25%	58%	19%	Grab	Trend Analysis
May River	Rose Dhu Creek	91%	22%	54%	13%	Grab	Trend Analysis
May River	Stoney Creek	72%	12%	51%	8%	Grab	Trend Analysis
Morgan River	Coffin Creek	87%	22%	59%	14%	Grab	Trend Analysis

¹ Sampling station is downstream of potential regional detention site, and therefore may provide data for prioritizing the construction of ponds and evaluating benefits (if pond is built)

² Location was inadvertently listed as "Coffin Creek" in the Beaufort County Stormwater Master Plan, Thomas & Hutton and CDM, 2006.

Table 2
Revised Tributary Sample Locations

Station	Sample Meth	Watershed	Hydrologic Basin	RWB	Classification	Purpose
BECY-1a	Auto	Beaufort River	Southside	Battery Creek	SFH	High Density Res. Runoff
BECY-1.5	Grab	May River	-	-	-	Existing Water Quality
BECY-1	Grab	May River	Stoney Creek	May River	ORW	Trend Analysis
BECY-2	Grab	May River	Tose Dhu Creek	May River	ORW	Trend Analysis
BECY-3	Grab	Colleton River	Okatie West	Okatie River	ORW	Trend Analysis
BECY-4	Grab	Colleton River	Berkley Creek	Okatie River	ORW	Existing Water Quality
BECY-4r	Grab	Colleton River	Okatie East	Okatie River	ORW	Existing Water Quality
BECY-4a	Auto	Morgan River	Rock Springs Creek	Morgan River	SFH	Med. Density Res. Runoff
BECY-5	Grab	Colleton River	Camp St. Marys	Okatie River	ORW	Existing Water Quality
BECY-6r	Grab	Beaufort River	Grober Hill	Battery Creek	SFH	Existing Water Quality
BECY-7ra	Auto	Morgan River	Burton Hill	Battery Creek	SFH	Existing Water Quality
BECY-8r	Grab	Beaufort River	Battery Creek North	Battery Creek	SFH	Trend Analysis
BECY-9ra	Auto	Beaufort River	Battery Creek West	Battery Creek	SFH	Trend Analysis
BECY-10	Grab	Broad River	Habersham Creek North	Broad River	SFH	Existing Water Quality
BECY-11	Grab	Beaufort River	Salt Creek South	Beaufort River	SA	Existing Water Quality
BECY-12	Grab	Beaufort River	Salt Creek	Beaufort River	SA	Existing Water Quality
BECY-13	Grab	Morgan River	Rock Springs Creek	Morgan River	SFH	Existing Water Quality
BECY-14	Grab	Morgan River	Village Creek	Morgan River	SFH	Trend Analysis
BECY-15	Grab	Beaufort River	Salt Creek	Beaufort River	SA	Existing Water Quality
BECY-16	Grab	Colleton River	Okatie West	Okatie River	N/A	Existing Water Quality
BMPep - Out	Auto	N/A	N/A	N/A	N/A	BMP Efficiency
Southside	Auto	-	-	-	-	Existing Water Quality
Pinckney Colony	Grab	N/A	N/A	N/A	N/A	Copper Evaluation
Christine Place	Grab	Morgan River	Lucy Point Creek	Morgan River	SFH	Existing Water Quality

Table 3
Year 3 Data Summary Ammonia-Nitrogen (NH3)

Station	Jun-09 6/16/2009	Jul-09 7/7/2009	Jul-09 7/14/2009	Aug-09 8/3/2009	Aug-09 8/13/2009	Sept-09 9/24/2009	Oct-09 10/5/2009	Nov-09 11/10/2009	Dec-09 12/3/2009	Jan-10 1/22/2010	Jan-10 1/25/2010	Feb-10 2/2/2010	Feb-10 2/23/2010	Mar-10 3/3/2010	May-10 5/5/2010	May-10 5/18/2010	Jun-10 6/16/2010	Jul-10 7/27-28/10	Aug-10 8/27/2010	Sep-10 9/27/2010
BECY-1a Comp	0.097	0.094	0.029	0.039	0.0298															
BECY-1a Grab	0.099	0.118	0.047	0.0377	0.016		0.04			0.030	3.42	0.103	0.186					0.059		0.206
BECY-1a Grab After							0.016		0.084	0.063	0.04	0.240	0.079	0.382				0.040		0.192
BECY-4a Comp		0.067		0.053	0.112															
BECY-4a Grab		0.085	0.059	0.073	0.103		0.141			0.035	0.03	0.016			0.055		0.068	No Flow		0.122
BECY-4a Grab After							0.016		0.050	0.043	0.02	0.016			0.086		0.062	No Flow		0.030
BECY-7ra Comp	0.341		0.05	0.17	0.152															
BECY-7ra Grab	0.36		0.045	0.154	0.306		0.02			0.091	0.08	0.032	0.100	0.098				0.271	0.086	0.055
BECY-7ra Grab After							0.016		0.037	0.149	0.03	0.052	0.060	0.461			0.016	0.154	0.041	0.145
BECY-9ra Comp	0.086		0.087	0.0814	0.0385															
BECY-9ra Grab	0.082		0.06	0.05	0.373		0.163			0.048	0.13	0.059	0.258					0.155	0.120	0.662
BECY-9ra Grab After							0.016		0.016	0.123	0.03	0.313	0.070	0.102				0.214	0.051	0.082
BMPep - Out Comp		0.318	0.304																	
BMPep - Out Grab		0.385	0.256	0.105	0.216	0.025				0.161	0.02	0.045		0.359				0.055		
BMPep - Out Grab After								0.077	0.275	0.110	0.11	0.034		0.177				0.695		
Southside Comp	0.719	0.088	0.176	0.297	0.016															
Southside Grab	0.962	0.145	0.12	0.493	1.17		0.352			0.222	0.297	0.182		1.150				0.300		
Southside Grab After							0.122		0.098	0.016	0.05	0.152		0.907				0.294		
Christine Place Comp	1.03			0.094	0.249															
Christine Place Grab	1.17		0.034	0.045	0.138															
BECY-1	0.178	0.216		0.089		0.039		0.195	0.016				0.091		0.455	0.183	0.339	0.087		
BECY-2	0.141	0.208		0.057		0.042		0.066	0.039				0.016		0.109	0.016	0.137	0.038		
BECY-3	0.387	0.045		0.099		0.084		0.064	0.019				0.048		0.174	0.016	0.106	0.034		
BECY-4	0.204	0.052		0.05																
BECY-4r						0.045		0.018	0.016				0.144		0.364	0.120	0.223	0.105		
BECY-5	0.063	0.016				0.028		0.058	0.016				0.016		0.104	0.024	0.051	0.016		
BECY-6r	0.301	0.178		0.0134		0.982		0.016	0.183											
BECY-8r	0.331	0.405		0.08		0.083		0.023	0.017				0.110		0.146	0.390	0.174	0.077		
BECY-10	0.222	0.084		0.122		0.103		0.016	0.018											
BECY-11	0.152	0.08		0.051		0.065		0.016	0.032											
BECY-12	0.13	0.325		0.051		0.138		0.055	0.023				0.758		0.098	0.016	0.423	0.249		
BECY-13	0.194	0.135		0.132		0.023		0.016	0.018				0.115		0.224	0.138	No Flow	0.016		
BECY-14	0.152	0.171		0.309		0.029		0.079	0.041				0.016		0.147	0.016	0.071	0.016		
BECY-15													0.093		0.230	0.339	No Flow	0.028		
BECY-16															0.019	0.164	0.182	0.114		
Christine Place-R						0.026		0.016	0.245				0.530		No Flow	0.110	0.074	0.735		

BECY-4 relocated in September 2009

Christine Place was relocated in September 2009 and changed to a grab-only sampling station

Beginning October 2009 - Composite sample from Auto Samplers are no longer collected. Instead, a grab sample is collected within 24-hours of rainfall.

BECY-6r, 10, & 11 - No Longer Sampled after February 2010

Results reported in mg/L

Table 4
Year 3 Data Summary - Biochemical Oxygen Demand* (BOD5)

Station	Jun-09 6/16/2009	Jul-09 7/7/2009	Jul-09 7/14/2009	Aug-09 8/3/2009	Aug-09 8/13/2009	Sept-09 9/24/2009	Oct-09 10/5/2009	Nov-09 11/10/2009	Dec-09 12/3/2009	Jan-10 1/22/2010	Jan-10 1/25/2010	Feb-10 2/2/2010	Feb-10 2/23/2010	Mar-10 3/3/2010	May-10 5/5/2010	May-10 5/18/2010	Jun-10 6/16/2010	Jul-10 7/27-28/10	Aug-10 8/27/2010	Sep-10 9/27/2010
BECY-1a Comp	4.89	2.44	4.83	3.69	4.37															
BECY-1a Grab	2.82	3.47	2.86	3.48	5		5.9				5.61	53.80	2.01	7.59				5.02		13.50
BECY-1a Grab After							13.2		1.95		3.51	2.15	7.99	13.60	1.66			5.89		15.30
BECY-4a Comp	-	1.55		1.93	3.61															
BECY-4a Grab	-	1	1.63	2.34	3.91		13.8				2.38	1.71	1.00		3.82		6.74	No Flow		4.56
BECY-4a Grab After							9.76		1.00		1.94	2.18	1.00		2.10		1.00	No Flow		8.61
BECY-7ra Comp	1.44		2	1.57	6.44															
BECY-7ra Grab	2.76		4.46	1.66	3.85		3.6				2.24	2.30	1.00	6.61	4.24			11.80	1.35	1.97
BECY-7ra Grab After							4.21		1.00		4.58	1.50	1.00	8.49	3.42		2.97	10.40	1.00	13.50
BECY-9ra Comp	3.43		4.22	7.57	4.94															
BECY-9ra Grab	4.44		3.25	11.5	5.64		5.56				6.87	5.07	3.60	8.06				8.23	1.37	13.80
BECY-9ra Grab After							4.99		1.00		3.93	2.04	1.01	7.67	3.67			9.64	1.32	15.20
BMPEP - Out Comp	-	4.74	5.78																	
BMPEP - Out Grab	-	4.28	4.65	4.33	6.77	3.15					4.96	3.71	1.00					5.75		
BMPEP - Out Grab After								5.04	1.35		8.47	6.60	2.01	8.46	3.02			8.11		
Southside Comp	4.98	10	12	4.21	5.96															
Southside Grab	3.4	11.3	13.3	6.28	11.4		10.6				4.78	3.68	2.05		5.3			3.53		
Southside Grab After							13		1.17		4.13	2.09	2.04		8.15			2.80		
Christine Place Comp	3.95			2.25	5.15															
Christine Place Grab	11.9		4.23	1.82	4.81															
BECY-1	16.8	3.81		2.27		3.71		4.85	7.10	1.26				9.65		10.70	3.57	4.73	1.68	
BECY-2	3.48	2.21		2.91		3		4.10	2.70	2.08				8.15		6.15	3.87	2.60	1.87	
BECY-3	3	1.62		2.36		2.37		2.05	1.22	1.36				8.79		6.52	3.13	2.27	1.00	
BECY-4	2.26	2.37		2.25																
BECY-4r	-					1.85		2.99	1.17	1.66				8.68		12.10	3.07	3.25	1.00	
BECY-5	1.42	1.27				1.74		1.00	1.23	1.21				7.52		4.29	1.55	1.69	1.68	
BECY-6r	1.17	6.03		2.66		4.98		1.82	1.00	1.43										
BECY-8r	4.42	4.05		3.68		2.79		3.70	1.00	2.96				8.84		13.20	3.73	10.40	2.40	
BECY-10	2.5	2.07		1.62		2.33		1.74	1.00	2.38										
BECY-11	3.63	3.03		2.51		4.46		1.64	1.00	1.70										
BECY-12	1.61	3.09		1.5		3.39		3.62	1.00	1.00				9.74		7.20	3.10	12.30	1.33	
BECY-13	1.21	1.43		1.82		3.13		1.00	1.00	1.24				7.19		3.49	1.75	No Flow	1.00	
BECY-14	3.29	1.36		2.7		4.37		2.22	1.00	1.18				9.94		4.62	2.96	3.31	1.79	
BECY-15	-													8.62		8.52	3.19	No Flow	3.62	
BECY-16	-															9.99	2.41	3.56	1.75	
Christine Place-R	-					4.53		5.85	1.00	3.67				9.30		No Flow	4.24	4.75	15.80	

*Biochemical Oxygen Demand is internally tracked for Critical Exceedances Concentration information.

BECY-4 relocated in September 2009

Christine Place was relocated in September 2009 and changed to a grab-only sampling station

Beginning October 2009 - Composite sample from Auto Samplers are no longer collected. Instead, a grab sample is collected within 24-hours of rainfall.

BECY-6r, 10, & 11 - No Longer Sampled after February 2010

Results reported in mg/L

Table 5
Year 3 Data Summary - Cadmium (Total)

Station	Jun-09 6/16/2009	Jul-09 7/7/2009	Jul-09 7/14/2009	Aug-09 8/3/2009	Aug-09 8/13/2009	Sept-09 9/24/2009	Oct-09 10/5/2009	Nov-09 11/10/2009	Dec-09 12/3/2009	Jan-10 1/22/2010	Jan-10 1/25/2010	Feb-10 2/2/2010	Feb-10 2/23/2010	Mar-10 3/3/2010	May-10 5/5/2010	May-10 5/18/2010	Jun-10 6/16/2010	Jul-10 7/27-28/10	Aug-10 8/27/2010	Sep-10 9/27/2010
BECY-1a Comp	1																			
BECY-1a Grab	1						1				0.40			0.10					0.10	
BECY-1a Grab After							1.11		1.00					0.10					0.10	
BECY-4a Comp		1.00																		
BECY-4a Grab		1.00					1.00				0.10				0.38				No Flow	
BECY-4a Grab After							1.00		1.00						0.10				No Flow	
BECY-7ra Comp	1																			
BECY-7ra Grab	1.07						1.28				0.13			0.39					0.20	
BECY-7ra Grab After							1		1.00					0.10					0.20	
BECY-9ra Comp	1																			
BECY-9ra Grab	1						1				0.22			0.10					0.10	
BECY-9ra Grab After							1.42		1.00					0.10					1.58	
BMPEP - Out Comp		1																		
BMPEP - Out Grab		1				1					0.10				1.83				1.02	
BMPEP - Out Grab After									1.00						0.82				0.10	
Southside Comp	1						1		1.00						0.10				0.21	
Southside Grab	1						1				2.55				0.118				0.1	
Southside Grab After							1		1.00						0.10				0.21	
Christine Place Comp	1																			
Christine Place Grab	3.21																			
BECY-1	1					1.56			1.00					1.00					0.10	
BECY-2	1					1			1.00					1.00					0.10	
BECY-3	1					1.03			1.00					1.00					0.20	
BECY-4	1																			
BECY-4r						1			1.00					0.50					0.10	
BECY-5	1					1.48			1.00					1.00					0.20	
BECY-6r	1					1.34			1.00											
BECY-8r	1					1			1.00					0.10					0.10	
BECY-10	1					1			1.00											
BECY-11	1					1			1.00											
BECY-12	1					1.04			1.00					0.10					0.10	
BECY-13	1								1.00					0.10					No Flow	0.10
BECY-14	1					1.34			1.00					1.00					0.40	
BECY-15														0.12					No Flow	0.10
BECY-16																			0.10	
Christine Place-R						1			1.02					0.12					0.10	

BECY-4 relocated in September 2009

Christine Place was relocated in September 2009 and changed to a grab-only sampling station

Beginning October 2009 - Composite sample from Auto Samplers are no longer collected. Instead, a grab sample is collected within 24-hours of rainfall.

BECY-6r, 10, & 11 - No Longer Sampled after February 2010

Results reported in µg/L

Table 6
Year 3 Data Summary - Chlorophyll-a

Station	Jun-09 6/16/2009	Jul-09 7/7/2009	Jul-09 7/14/2009	Aug-09 8/3/2009	Aug-09 8/13/2009	Sept-09 9/24/2009	Oct-09 10/5/2009	Nov-09 11/10/2009	Dec-09 12/3/2009	Jan-10 1/22/2010	Jan-10 1/25/2010	Feb-10 2/2/2010	Feb-10 2/23/2010	Mar-10 3/3/2010	May-10 5/5/2010	May-10 5/18/2010	Jun-10 6/16/2010	Jul-10 7/27-28/10	Aug-10 8/27/2010	Sep-10 9/27/2010
BECY-1a Comp	13.1	21.1	19.7	43.8	0.9															
BECY-1a Grab	10.4	18.9	13.1	21.2	8.2		1.2				26.60	237.70		23.90				94.30		61.90
BECY-1a Grab After							3.8		2.70		1.70	1.80		6.90	17.00			78.80		2.20
BECY-4a Comp		0.3		1.5	0.2															
BECY-4a Grab		1.4	0.3	0.9	0.2		0.5				0.40	0.40			0.90		0.40	No Flow		1.20
BECY-4a Grab After							0.3		<.2		0.30	0.30			1.10		1.20	No Flow		1.30
BECY-7ra Comp	2.5		3.6	6.7	0.2															
BECY-7ra Grab	4.7		19.6	4.9	0.5		1.4				1.10	0.50		3.00	4.40			79.10	2.70	0.20
BECY-7ra Grab After							0.2		0.30		5.80	2.90		2.10	2.90		9.70	55.50	1.70	5.50
BECY-9ra Comp	4.7		7.0	5.8	46.1															
BECY-9ra Grab	26.4		1.8	33.5	0.2		0.3				5.60	15.20		8.30				1.40	1.10	1.70
BECY-9ra Grab After							1.3		0.20		9.10	6.30		6.10	8.10			9.80	5.00	5.00
BMPep - Out Comp		38.4	15.1																	
BMPep - Out Grab		39.6	70.5	57.1	0.7	0.6					12.10	10.90			7.30			0.90		
BMPep - Out Grab After								4.20	2.80		12.30	11.10		3.70	17.70			14.30		
Southside Comp	12.5	176.1	85.4	35.8	0.5															
Southside Grab	18.3	129.3	112.0	36.9	0.2		6.0				4.6	8.8			18.6			15.8		
Southside Grab After							11.0		6.30		6.70	2.30			186.10			20.00		
Christine Place Comp	7.2			13.8	2.2															
Christine Place Grab	49.8		30.2	6.3	0.3															
BECY-1	141.3			4.1		0.5		3.90	0.20	2.30				4.80		19.70	23.40	31.40	3.90	
BECY-2	19.4			46.9		0.3		0.90	1.00	16.30				6.00		9.00	9.70	11.30	14.20	
BECY-3	9.0			38.9		0.5		0.70	0.20	4.70				13.40		13.70	42.80	17.80	14.10	
BECY-4	7.8			12.7																
BECY-4r						0.3		5.70	0.30	0.70				11.00		30.00	2.90	2.80	4.40	
BECY-5	9.6					0.2		1.40	0.20	1.30				5.20		6.20	7.90	10.80	8.20	
BECY-6r	11.0			10.7		0.5		10.40	0.20	0.80										
BECY-8r	3.9			21.1		1.6		0.80	<.2	1.70				2.80		24.50	6.10	38.90	13.20	
BECY-10	4.3			2.7		1.7		2.30	0.30	2.10										
BECY-11	79.1			6.3		5.7		27.60	0.20	0.10										
BECY-12	4.5			1.5		0.4		0.60	<.2	0.40				2.30		9.00	10.20	62.00	3.10	
BECY-13	4.3			1.6		0.3		5.70	0.60	7.60				3.10		2.10	14.20	No Flow	5.50	
BECY-14	24.7			18.8		1.2		0.30	<.2	1.40				6.80		13.10	18.10	20.20	18.20	
BECY-15														0.60		2.30	0.60	No Flow	1.90	
BECY-16																8.00	16.10	4.10	11.20	
Christine Place-R								2.80	0.20	54.60				6.90		No Flow	30.20	30.30	43.90	

BECY-4 relocated in September 2009

Christine Place was relocated in September 2009 and changed to a grab-only sampling station

Beginning October 2009 - Composite sample from Auto Samplers are no longer collected. Instead, a grab sample is collected within 24-hours of rainfall.

BECY-6r, 10, & 11 - No Longer Sampled after February 2010

Results reported in µg/L

**Table 7
Year 3 Data Summary - Chromium (Total)**

Station	Jun-09 6/16/2009	Jul-09 7/7/2009	Jul-09 7/14/2009	Aug-09 8/3/2009	Aug-09 8/13/2009	Sept-09 9/24/2009	Oct-09 10/5/2009	Nov-09 11/10/2009	Dec-09 12/3/2009	Jan-10 1/22/2010	Jan-10 1/25/2010	Feb-10 2/2/2010	Feb-10 2/23/2010	Mar-10 3/3/2010	May-10 5/5/2010	May-10 5/18/2010	Jun-10 6/16/2010	Jul-10 7/27-28/10	Aug-10 8/27/2010	Sep-10 9/27/2010
BECY-1a Comp	3.03																			
BECY-1a Grab	2						1				2.35			1.00					1.00	
BECY-1a Grab After							2.36		1.11					1.00					1.00	
BECY-4a Comp		1																		
BECY-4a Grab		1					1.09				1.41				2.04				No Flow	
BECY-4a Grab After							1.82		1.00						1.13				No Flow	
BECY-7ra Comp	2																			
BECY-7ra Grab	2						1				2.65			1.24					1.00	
BECY-7ra Grab After							1		1.49					1.02					1.00	
BECY-9ra Comp	11.9																			
BECY-9ra Grab	3.29						2.36				3.50			1.00					1.24	
BECY-9ra Grab After							1.83		6.48					1.00					1.00	
BMPEP - Out Comp		1																		
BMPEP - Out Grab		1				1					1.42				1.15				1.00	
BMPEP - Out Grab After									1.00						1.00				1.00	
Southside Comp	2																			
Southside Grab	2						1				3.24				1.31				1	
Southside Grab After							1		1.28						1.97				1.00	
Christine Place Comp	2																			
Christine Place Grab	5.04																			
BECY-1	2.25					1			2.12					10.00					1.00	
BECY-2	2					1			2.04					10.00					1.00	
BECY-3	2					1			2.01					1.00					4.32	
BECY-4	2																			
BECY-4r						1			1.50					5.00					1.00	
BECY-5	2					1			2.87					1.00					2.34	
BECY-6r	2.04					1			2.85											
BECY-8r	2					1.57			1.00					1.20					2.81	
BECY-10	2					1			4.78											
BECY-11	3.44					2.77			4.61											
BECY-12	2.07					1			3.68					1.33					1.42	
BECY-13	2					1			1.00					1.00					No Flow	1.00
BECY-14	2					1			1.00					1.38					1.00	
BECY-15														1.24					No Flow	2.36
BECY-16																			1.30	
Christine Place-R						2.07			2.95					2.97					1.16	

BECY-4 relocated in September 2009

Christine Place was relocated in September 2009 and changed to a grab-only sampling station

Beginning October 2009 - Composite sample from Auto Samplers are no longer collected. Instead, a grab sample is collected within 24-hours of rainfall.

BECY-6r, 10, & 11 - No Longer Sampled after February 2010

Results reported in µg/L

**Table 8
Year 3 Data Summary - Conductivity**

Station	Jun-09 6/16/2009	Jul-09 7/7/2009	Jul-09 7/14/2009	Aug-09 8/3/2009	Aug-09 8/13/2009	Sept-09 9/24/2009	Oct-09 10/5/2009	Nov-09 11/10/2009	Dec-09 12/3/2009	Jan-10 1/22/2010	Jan-10 1/25/2010	Feb-10 2/2/2010	Feb-10 2/23/2010	Mar-10 3/3/2010	May-10 5/5/2010	May-10 5/18/2010	Jun-10 6/16/2010	Jul-10 7/27-28/10	Aug-10 8/27/2010	Sep-10 9/27/2010
BECY-1a Grab	301	6563	1326	1260	278		3391					67	7624	5485				1264		41220
BECY-1a Grab After										155		52	635	227	1170			678		32098
BECY-4a Grab		248	165	140	35		22					74	165		61		691	No Flow		84
BECY-4a Grab After										123		69	163		168		184	No Flow		85
BECY-7ra Grab	1440		1081	1374	3004		17661					282	522	218	1194			42641	907	1026
BECY-7ra Grab After										331		129	364	233	395		38453	44993	477	1038
BECY-9ra Grab	101		62	241	111		118					159	151	221				137	134	208
BECY-9ra Grab After										156		90	237	213	230			199	138	118
BMPep - Out Grab		233	238	286	163	74						84	141		214			214		
BMPep - Out Grab After								365		94		63	136	153	202			220		
Southside Grab	1193	31466	291	3137	3727		1758					320	325					1518		
Southside Grab After										151		341	319		220			1507		
Christine Place Grab			72	53	37															
BECY-1	2025	5228		164		28803		776		66				4905		16627	33257	36292	2000	
BECY-2	24849	30363		801		28275		367		125				21950		41653	41424	40315	23317	
BECY-3	27240	39326		1430		16309		323		145				22540		41994	41103	45425	28320	
BECY-4	33788	40246		25596																
BECY-4r						501		275		56				460		1163	9378	555	464	
BECY-5	37876	41302				32325		391		2023				28872		44838	45104	45975	34426	
BECY-6r	233	1272		254		23945		1110		116										
BECY-8r	262	9967		453		3445		430		169				243		309	18740	3772	172	
BECY-10	159	288		148		479		188		100										
BECY-11	271	418		196		430		526		84										
BECY-12	513	9013		508		12350		820		168				241		1027	12414	40945	677	
BECY-13	137	108		120		206		389		160				150		842	158	No Flow	580	
BECY-14	24493	36399		19877		36833		360		1177				14960		40910	44858	45126	42730	
BECY-15														167		134	187	No Flow	93	
BECY-16																417.00	478.00	659.00	146.70	
Christine Place-R						123		1150		64.4				117		No Flow	116	8032	129	

BECY-4 relocated in September 2009

Christine Place was relocated in September 2009 and changed to a grab-only sampling station

Beginning October 2009 - Composite sample from Auto Samplers are no longer collected. Instead, a grab sample is collected within 24-hours of rainfall.

BECY-6r, 10, & 11 - No Longer Sampled after February 2010

Results reported in $\mu\text{S}/\text{cm}$

**Table 9
Year 3 Data Summary - Copper***

Station	Jun-09 6/16/2009	Jul-09 7/7/2009	Jul-09 7/14/2009	Aug-09 8/3/2009	Aug-09 8/13/2009	Sept-09 9/24/2009	Oct-09 10/5/2009	Nov-09 11/10/2009	Dec-09 12/3/2009	Jan-10 1/22/2010	Jan-10 1/25/2010	Feb-10 2/2/2010	Feb-10 2/23/2010	Mar-10 3/3/2010	May-10 5/5/2010	May-10 5/18/2010	Jun-10 6/16/2010	Jul-10 7/27-28/10	Aug-10 8/27/2010	Sep-10 9/27/2010
BECY-1a Comp	3																			
BECY-1a Grab	3						3				3.24			2.56						12.30
BECY-1a Grab							9.49		6.06					1.95						12.70
BECY-4a Grab After		3																		
BECY-4a Grab		3					5.51			0.97					6.33					No Flow
BECY-4a Comp							4.39		3.00						0.83					No Flow
BECY-7ra Comp/Grab After	3																			
BECY-7ra Grab	3						8.69			1.18				0.89						35.80
BECY-7ra Grab After							3		3.00					0.57						7.19
BECY-9ra Comp	9.52																			
BECY-9ra Grab	3.08						3			3.83				1.20						3.33
BECY-9ra Grab After							3.43		3.02					0.85						2.57
BMPep - Out Comp		132																		
BMPep - Out Grab		130		22.7	19.6	30.4				17.8					92.60					16.40
BMPep - Out Grab After (Total)								44.70	14.70	17.07		19.50	21.40	84.20	51.00					13.30
BMPep - Out Grab After (Dissolved)								27.60	10.50	16.60		16.50	14.50	75.40	38.20					8.97
Southside Comp	3																			
Southside Grab	3						3				3.09				1.02					1.04
Southside Grab After							3		8.52						3.07					1.2
Christine Place Comp	6.6																			
Christine Place Grab	22.8																			
BECY-1	3					11.2								3.30						4.63
BECY-2	6.07					9.64								6.01						5.41
BECY-3	6.56					9.1								9.47						8.61
BECY-4	6.73																			
BECY-4r						3								2.55						1.24
BECY-5	6.81					13.8								9.91						6.85
BECY-6r	3					11.3														
BECY-8r	3					5								1.41						6.35
BECY-10	3					3														
BECY-11	3					10.1														
BECY-12	3					7.45								0.83						5.50
BECY-13	3					3								0.42						No Flow
BECY-14	6.69					13								3.67						0.46
BECY-15														0.96						6.38
BECY-16																				No Flow
Christine Place-R (Total)						3		6.47	7.31	5.16				6.8			5.2	2.0		8.2
Christine Place-R (Dissolved)								2.15	5.86	4.27							4.48	2.27		3.79
Rose Hill-Out						15.6														
HOA Pond (Total)																				10.20
HOA Pond (Dissolved)																				5.14
Pinckney Colony (Total)						15.5		12.10	9.88	11.60		8.68	12.90	18.40	12.50		13.10			20.70
Pinckney Colony (Dissolved)						15.5		7.39	7.49	9.54		7.43	9.10	14.80	7.09		5.25			9.42

*Copper is internally tracked for Critical Exceedance Concentration information.

BECY-4 relocated in September 2009

Christine Place was relocated in September 2009 and changed to a grab-only sampling station

Beginning October 2009 - Composite sample from Auto Samplers are no longer collected. Instead, a grab sample is collected within 24-hours of rainfall.

BECY-6r, 10, & 11 - No Longer Sampled after February 2010

Results reported in µg/L

Table 10
Year 3 Data Summary - Dissolved Oxygen* (DO)

Station	Jun-09 6/16/2009	Jul-09 7/7/2009	Jul-09 7/14/2009	Aug-09 8/3/2009	Aug-09 8/13/2009	Sept-09 9/24/2009	Oct-09 10/5/2009	Nov-09 11/10/2009	Dec-09 12/3/2009	Jan-10 1/22/2010	Jan-10 1/25/2010	Feb-10 2/2/2010	Feb-10 2/23/2010	Mar-10 3/3/2010	May-10 5/5/2010	May-10 5/18/2010	Jun-10 6/16/2010	Jul-10 7/27-28/10	Aug-10 8/27/2010	Sep-10 9/27/2010
BECY-1a Grab	2.69	2.12	5.9	0.99	3.1		0.58					3.00	7.20	13.96				1.20		3.02
BECY-1a Grab After										3.9	3.10	4.30	6.20	1.47				1.10		2.49
BECY-4a Grab		6.1	5.46	3.74	2.48		5.7					5.10	6.20		4.82		1.70	No Flow		3.27
BECY-4a Grab After										4.3	5.00	5.70		4.51			4.60	No Flow		5.09
BECY-7ra Grab	1.29		4.5	4.76	2.78		5.49					5.40	7.14	11.10	4.18			1.70	6.00	3.66
BECY-7ra Grab After										4.2	5.20	6.40	11.10	2.25			2.20	1.55	4.00	3.53
BECY-9ra Grab	5.5		3.46	2.01	2.77		4.49					4.00	7.16	9.80				5.20	3.50	5.29
BECY-9ra Grab After										5.1	3.90	7.50	9.90	4.37				3.10	4.20	4.53
BMPep - Out Grab		1.34	0.79	4.46	1.7	5.77						5.00	8.10	6.41				5.10		
BMPep - Out Grab After								5.8			4.2	5.30	8.30	10.70	5.84			3.00		
Southside Grab	1.98	1.4	2.37	0.6	0.17		2.6					2.8	5					3.4		
Southside Grab After										2.1	2.70	4.70		2.64				2.80		
Christine Place Grab			5.18	3.91	4.6															
BECY-1	4.3	4.4		6.86		5.9		3.9		4.2				9.90		3.54	2.90	2.25	4.20	
BECY-2	5.1	3.6		6.5		4.59		5.8		5.2				9.40		3.25	3.80	2.92	3.00	
BECY-3	7.03	3.68		6.6		6.68		5.5		6.4				9.60		3.00	3.50	2.72	2.70	
BECY-4	5.4	8.4		4.32																
BECY-4r						6.59		3.8		4.2				12.10		1.90	3.40	4.60	4.70	
BECY-5	4.27	4.2				5.06		5.9		5.5				9.21		3.80	3.91	2.50	2.00	
BECY-6r	3.84	2.7		5.5		1.11		6.8		4.8										
BECY-8r	4.1	4.8		5.5		5.6		5.2		5.3				8.40		2.60	4.60	4.40	3.30	
BECY-10	3.12	2.69		7.88		4.5		5.5		5.6										
BECY-11	4.07	2.84		3.23		3.3		4.6		4.4										
BECY-12	4.51	2.39		6.64		3.65		5.5		5.3				10.13		4.30	3.10	2.71	4.90	
BECY-13	7.62	5.1		5.63		5.94		6.3		6.2				8.40		5.80	4.70	No Flow	5.00	
BECY-14	6.14	2.3		3.12		3.27		7.0		5.5				9.29		3.60	2.60	2.30	2.73	
BECY-15														10.05		4.30	9.30	No Flow	4.60	
BECY-16																4.30	3.90	4.80	3.90	
Christine Place-R						1.54		5.1		5				7.20		No Flow	3.00	4.10	4.20	

*Dissolved Oxygen is internally tracked for Critical Exceedances Concentration information.

BECY-4 relocated in September 2009

Christine Place was relocated in September 2009 and changed to a grab-only sampling station

Beginning October 2009 - Composite sample from Auto Samplers are no longer collected. Instead, a grab sample is collected within 24-hours of rainfall.

BECY-6r, 10, & 11 - No Longer Sampled after February 2010

Results reported in mg/L

Table 11
Year 3 Data Summary - Fecal Coliform*

Station	Jun-09 6/16/2009	Jul-09 7/7/2009	Jul-09 7/14/2009	Aug-09 8/3/2009	Aug-09 8/13/2009	Sept-09 9/24/2009	Oct-09 10/5/2009	Nov-09 11/10/2009	Dec-09 12/3/2009	Jan-10 1/22/2010	Jan-10 1/25/2010	Feb-10 2/2/2010	Feb-10 2/23/2010	Mar-10 3/3/2010	May-10 5/5/2010	May-10 5/18/2010	Jun-10 6/16/2010	Jul-10 7/27-28/10	Aug-10 8/27/2010	Sep-10 9/27/2010
BECY-1a Comp	20	20	40	>16000	40															
BECY-1a Grab	20	40	<20	160000	<20		60				1400	230	<20	<20				800		5000
BECY-1a Grab After							9000		2200		1100	1300	40	800	>16000			700		>16000
BECY-4a Comp		80		2200	170															
BECY-4a Grab		300	40	110	130		900				80	500	40		1100		1100	No Flow		3000
BECY-4a Grab After							1400		300		40	500	<20		20		1700	No Flow		>16000
BECY-7ra Comp	80		16000	500	>16000															
BECY-7ra Grab	170		300	1700	2400		20				70	130	170	20	700			1700	700	<20
BECY-7ra Grab After							300		1300		5000	500	130	40	2200		1700	5000	130	>16000
BECY-9ra Comp	2200		5000	9000	5000															
BECY-9ra Grab	5000		3000	800	>16000		5000				300	230	230	170				>16000	170	3000
BECY-9ra Grab After							3000		900		500	300	40	230	1100			>16000	300	>16000
BMPep - Out Comp		7	4																	
BMPep - Out Grab		2	<2	4	33	8					1600	30	<2		<2			4		
BMPep - Out Grab After								130	3000		900	110	4	<2	7			80		
Southside Comp	500	40	3000	2400	>16000															
Southside Grab	300	60	800	800	>16000		1700				500	800	1100		300			130		
Southside Grab After							>16000		17000		800	1700	300		5000			500		
Christine Place Comp	300			3000	5000															
Christine Place Grab	3000		1100	1700	300															
BECY-1	300	5000		300		130		3000	3000	170				300		1700	800	600	500	
BECY-1.5	500	70		300		1300		700	2400	140				80		230	5000	700	16000	
BECY-2	230	170		600		80		70	3000	300				110		500	40	220	140	
BECY-3	40	80		500		500		300	5000	300				500		230	230	110	110	
BECY-4	13	9		80																
BECY-4r						230		2400	2200	1300				800		2200	3000	500	500	
BECY-5	20	130				<20		<20	2800	300				40		20	40	300	230	
BECY-6r	170	40		220		40		16000	1100	170										
BECY-8r	1300	2200		400		160000		7000	300	200				<200		5000	700	>160000	50000	
BECY-10	1100	230		60		70		1100	5000	2400										
BECY-11	>16000	<20		9000		500		1300	900	3000										
BECY-12	5000	300		300		5000		9000	5000	1400				700		3000	800	500	1700	
BECY-13	<20	40		40		2		60	1400	130				20		170	800	No Flow	<20	
BECY-14	170	50		5000		21		300	1600	900				110		240	170	8	70	
BECY-15														230		16000	2400	No Flow	2800	
BECY-16															110	1300	1700	300		
Christine Place-R						16000		3500	>16000	3000				<20		No Flow	5000	2800	>16000	

*Fecal Coliform is internally tracked for Critical Exceedance Concentration information.

BECY-4 relocated in September 2009

Christine Place was relocated in September 2009 and changed to a grab-only sampling station

Beginning October 2009 - Composite sample from Auto Samplers are no longer collected. Instead, a grab sample is collected within 24-hours of rainfall.

BECY-6r, 10, & 11 - No Longer Sampled after February 2010

Results reported in Colony Forming Units (CFU)/100 mL

Table 12
Year 3 Data Summary - Iron (Total)

Station	Jun-09 6/16/2009	Jul-09 7/7/2009	Jul-09 7/14/2009	Aug-09 8/3/2009	Aug-09 8/13/2009	Sept-09 9/24/2009	Oct-09 10/5/2009	Nov-09 11/10/2009	Dec-09 12/3/2009	Jan-10 1/22/2010	Jan-10 1/25/2010	Feb-10 2/2/2010	Feb-10 2/23/2010	Mar-10 3/3/2010	May-10 5/5/2010	May-10 5/18/2010	Jun-10 6/16/2010	Jul-10 7/27-28/10	Aug-10 8/27/2010	Sep-10 9/27/2010
BECY-1a Comp	679																			
BECY-1a Grab	157						119				1230			810				228		
BECY-1a Grab After							1400		921					1090				236		
BECY-4a Comp		662																		
BECY-4a Grab		666					237				509				607			No Flow		
BECY-4a Grab After							300		648						384			No Flow		
BECY-7ra Comp	3120																			
BECY-7ra Grab	2960						618				1770			1200				2810		
BECY-7ra Grab After							808		1160					1040				2780		
BECY-9ra Comp	7010																			
BECY-9ra Grab	1920						2560				2910			1550				553		
BECY-9ra Grab After							761		3600					939				1100		
BMPep - Out Comp		1280																		
BMPep - Out Grab		1170				853					1220				2140			192		
BMPep - Out Grab After									705						906			484		
Southside Comp	482																			
Southside Grab	492						466				1580				1200			319		
Southside Grab After							387		549						2230			383		
Christine Place Comp	550																			
Christine Place Grab	2000																			
BECY-1	3170					445			1760					1500				1260		
BECY-2	853					565			1590					1640				1460		
BECY-3	1300					827			1300					2120				3320		
BECY-4	280																			
BECY-4r						1150			1150					1500				1590		
BECY-5	603					466			1430					2080				2650		
BECY-6r	4130					1490			1440											
BECY-8r	910					1240			694					1180				1180		
BECY-10	2020					1840			2890											
BECY-11	17800					14000			2890											
BECY-12	2500					1530			2490					1190				3680		
BECY-13	924					818			267					270				No Flow	356	
BECY-14	1100					851			344					1560				2180		
BECY-15														1110				No Flow	2900	
BECY-16																		1410		
Christine Place-R						829			181					523				128		

BECY-4 relocated in September 2009

Christine Place was relocated in September 2009 and changed to a grab-only sampling station

Beginning October 2009 - Composite sample from Auto Samplers are no longer collected. Instead, a grab sample is collected within 24-hours of rainfall.

BECY-6r, 10, & 11 - No Longer Sampled after February 2010

Results reported in µg/L

Table 13
Year 3 Data Summary - Lead (Total)

Station	Jun-09 6/16/2009	Jul-09 7/7/2009	Jul-09 7/14/2009	Aug-09 8/3/2009	Aug-09 8/13/2009	Sept-09 9/24/2009	Oct-09 10/5/2009	Nov-09 11/10/2009	Dec-09 12/3/2009	Jan-10 1/22/2010	Jan-10 1/25/2010	Feb-10 2/2/2010	Feb-10 2/23/2010	Mar-10 3/3/2010	May-10 5/5/2010	May-10 5/18/2010	Jun-10 6/16/2010	Jul-10 7/27-28/10	Aug-10 8/27/2010	Sep-10 9/27/2010
BECY-1a Comp	2.5																			
BECY-1a Grab	2.5						3.3							0.50					0.50	
BECY-1a Grab After							33.1		3.30					0.76					0.50	
BECY-4a Comp		3.3																		
BECY-4a Grab		3.3					3.41								3.91				No Flow	
BECY-4a Grab After							4.23		3.30						0.50				No Flow	
BECY-7ra Comp	2.5																			
BECY-7ra Grab	2.5						3.3							0.50					1.36	
BECY-7ra Grab After							3.3		3.30					0.50					0.78	
BECY-9ra Comp	8.65																			
BECY-9ra Grab	2.5						3.3							0.51					1.04	
BECY-9ra Grab After							3.3		3.30					0.50					0.78	
BMPEP - Out Comp		3.3																		
BMPEP - Out Grab		3.3				3.3									0.50				0.50	
BMPEP - Out Grab After									3.30						0.50				0.50	
Southside Comp	2.5																			
Southside Grab	2.5						3.37								0.5				0.5	
Southside Grab After							3.3		3.30						2.48				0.75	
Christine Place Comp	2.5																			
Christine Place Grab	2.5																			
BECY-1	2.5					3.3			3.30					5.00					0.50	
BECY-2	2.57					3.3			3.30					5.00					1.00	
BECY-3	2.5					3.3			3.30					0.68					1.10	
BECY-4	3.62																			
BECY-4r						3.63			3.30					2.50					0.50	
BECY-5	2.5					3.3			3.30					0.50					1.03	
BECY-6r	2.5					3.3			3.30											
BECY-8r	2.5					3.3			3.30					0.50					2.95	
BECY-10	2.5					3.3			3.30											
BECY-11	3.59					4.37			3.30											
BECY-12	2.5					5.82			3.30					0.62					2.70	
BECY-13	2.5					3.3			3.30					0.50					No Flow	0.50
BECY-14	3.07					3.3			3.30					2.50					0.50	
BECY-15														0.50					No Flow	1.22
BECY-16																			0.50	
Christine Place-R						3.56			3.30					0.56					0.50	

BECY-4 relocated in September 2009

Christine Place was relocated in September 2009 and changed to a grab-only sampling station

Beginning October 2009 - Composite sample from Auto Samplers are no longer collected. Instead, a grab sample is collected within 24-hours of rainfall.

BECY-6r, 10, & 11 - No Longer Sampled after February 2010

Results reported in µg/L

Table 14
Year 3 Data Summary - Manganese (Total)

Station	Jun-09 6/16/2009	Jul-09 7/7/2009	Jul-09 7/14/2009	Aug-09 8/3/2009	Aug-09 8/13/2009	Sept-09 9/24/2009	Oct-09 10/5/2009	Nov-09 11/10/2009	Dec-09 12/3/2009	Jan-10 1/22/2010	Jan-10 1/25/2010	Feb-10 2/2/2010	Feb-10 2/23/2010	Mar-10 3/3/2010	May-10 5/5/2010	May-10 5/18/2010	Jun-10 6/16/2010	Jul-10 7/27-28/10	Aug-10 8/27/2010	Sep-10 9/27/2010
BECY-1a Comp	17.5																			
BECY-1a Grab	5.57						20.4				28.90			12.60					36.90	
BECY-1a Grab After							88		26.50					34.70					38.50	
BECY-4a Comp		14.4																		
BECY-4a Grab		14					10.4				13.90				13.20				No Flow	
BECY-4a Grab After							5.57		26.70						17.40				No Flow	
BECY-7ra Comp	38.4																			
BECY-7ra Grab	36.3						187				34.90			36.70					269.00	
BECY-7ra Grab After							96.3		21.20					32.40					272.00	
BECY-9ra Comp	54.2																			
BECY-9ra Grab	37						108				57.80			84.50					32.70	
BECY-9ra Grab After							16.2		33.40					38.50					62.50	
BMPep - Out Comp		29.1																		
BMPep - Out Grab		28.6				19.4					23.90				38.10				3.20	
BMPep - Out Grab After									14.20						18.80				20.20	
Southside Comp	38.2																			
Southside Grab	41						30				64.9				35.8				22	
Southside Grab After							15.2		39.00						44.70				22.40	
Christine Place Comp	35.4																			
Christine Place Grab	56.2																			
BECY-1	146					127			93.80					82.70					424.00	
BECY-2	121					64.8			38.90					38.90					78.40	
BECY-3	160					90.2			34.80					53.70					88.70	
BECY-4	60.1																			
BECY-4r						23.8			27.70					56.00					376.00	
BECY-5	48.6					21.1			35.40					19.10					54.30	
BECY-6r	61.3					330			23.30											
BECY-8r	26.6					42.3			21.80					37.80					80.10	
BECY-10	92.3					44.3			42.80											
BECY-11	309					739			48.50											
BECY-12	91.6					212			78.40					84.40					861.00	
BECY-13	16.2					16.8			12.70					17.20					No Flow	17.10
BECY-14	284					168			55.50					61.80					182.00	
BECY-15														58.30					No Flow	77.50
BECY-16																			66.20	
Christine Place-R						42.6			13.00					53.20					21.10	

BECY-4 relocated in September 2009

Christine Place was relocated in September 2009 and changed to a grab-only sampling station

Beginning October 2009 - Composite sample from Auto Samplers are no longer collected. Instead, a grab sample is collected within 24-hours of rainfall.

BECY-6r, 10, & 11 - No Longer Sampled after February 2010

Results reported in µg/L

Table 15
Year 3 Data Summary - Mercury (Total)

Station	Jun-09 6/16/2009	Jul-09 7/7/2009	Jul-09 7/14/2009	Aug-09 8/3/2009	Aug-09 8/13/2009	Sept-09 9/24/2009	Oct-09 10/5/2009	Nov-09 11/10/2009	Dec-09 12/3/2009	Jan-10 1/22/2010	Jan-10 1/25/2010	Feb-10 2/2/2010	Feb-10 2/23/2010	Mar-10 3/3/2010	May-10 5/5/2010	May-10 5/18/2010	Jun-10 6/16/2010	Jul-10 7/27-28/10	Aug-10 8/27/2010	Sep-10 9/27/2010
BECY-1a Comp	0.067																			
BECY-1a Grab	0.067						0.066				0.066			0.066					0.066	
BECY-1a Grab After							0.066		0.066					0.066					0.066	
BECY-4a Comp		0.066																		
BECY-4a Grab		0.066					0.066				0.066								No Flow	
BECY-4a Grab After							0.066		0.066										No Flow	
BECY-7ra Comp	0.067																			
BECY-7ra Grab	0.067						0.066				0.066			0.066					0.066	
BECY-7ra Grab After							0.066		0.066					0.066					0.066	
BECY-9ra Comp	0.067																			
BECY-9ra Grab	0.067						0.066				0.066			0.066					0.066	
BECY-9ra Grab After							0.066		0.066					0.060					0.066	
BMPep - Out Comp		0.066																		
BMPep - Out Grab		0.066				0.066					0.066								0.066	
BMPep - Out Grab After									0.066										0.066	
Southside Comp	0.067																			
Southside Grab	0.067						0.066				0.066								0.066	
Southside Grab After							0.066		0.066										0.066	
Christine Place Comp	0.067																			
Christine Place Grab	0.067																			
BECY-1	0.067					0.066			0.066					0.066					0.066	
BECY-2	0.067					0.066			0.066					0.066					0.066	
BECY-3	0.067					0.066			0.066					0.066					0.066	
BECY-4	0.067																			
BECY-4r						0.066			0.066					0.066					0.066	
BECY-5	0.067					0.066			0.066					0.066					0.066	
BECY-6r	0.067					0.066			0.066											
BECY-8r	0.067					0.066			0.066					0.066					0.066	
BECY-10	0.067					0.066			0.066											
BECY-11	0.067					0.066			0.066											
BECY-12	0.067					0.066			0.066					0.066					0.066	
BECY-13	0.067					0.066			0.066					0.066					No Flow	0.066
BECY-14	0.067					0.066			0.066					0.066					0.066	
BECY-15														0.066					No Flow	0.066
BECY-16																			0.066	
Christine Place-R						0.066			0.066					0.066					0.066	

BECY-4 relocated in September 2009

Christine Place was relocated in September 2009 and changed to a grab-only sampling station

Beginning October 2009 - Composite sample from Auto Samplers are no longer collected. Instead, a grab sample is collected within 24-hours of rainfall.

BECY-6r, 10, & 11 - No Longer Sampled after February 2010

Results reported in µg/L

Table 16
Year 3 Data Summary - Nickel (Total)

Station	Jun-09 6/16/2009	Jul-09 7/7/2009	Jul-09 7/14/2009	Aug-09 8/3/2009	Aug-09 8/13/2009	Sept-09 9/24/2009	Oct-09 10/5/2009	Nov-09 11/10/2009	Dec-09 12/3/2009	Jan-10 1/22/2010	Jan-10 1/25/2010	Feb-10 2/2/2010	Feb-10 2/23/2010	Mar-10 3/3/2010	May-10 5/5/2010	May-10 5/18/2010	Jun-10 6/16/2010	Jul-10 7/27-28/10	Aug-10 8/27/2010	Sep-10 9/27/2010
BECY-1a Comp	1.00																			
BECY-1a Grab	1.00						1.50				1.27			5.42				0.86		
BECY-1a Grab After							1.50		1.50					2.29				0.68		
BECY-4a Comp		1.50																		
BECY-4a Grab		1.50					1.50				0.61							No Flow		
BECY-4a Grab After							1.50		1.50									No Flow		
BECY-7ra Comp	1.00																			
BECY-7ra Grab	1.00						3.08				1.51			1.46				14.20		
BECY-7ra Grab After							1.69		1.50					1.14				14.20		
BECY-9ra Comp	2.26																			
BECY-9ra Grab	1.00						1.50				2.35			1.73				0.96		
BECY-9ra Grab After							1.50		1.50					1.50				1.92		
BMPEP - Out Comp		1.50																		
BMPEP - Out Grab		1.50				1.50					0.59							1.33		
BMPEP - Out Grab After									1.50									0.50		
Southside Comp	1.00																			
Southside Grab	1.00						1.50				3.19							0.942		
Southside Grab After							1.50		1.50									0.99		
Christine Place Comp	1.00																			
Christine Place Grab	2.06																			
BECY-1	1.00					2.67			1.50					3.68				9.43		
BECY-2	3.06					1.75			1.50					12.40				10.80		
BECY-3	3.38					1.80			1.50					12.90				15.50		
BECY-4	3.26																			
BECY-4r						1.50			1.50					3.87				1.59		
BECY-5	3.28					4.36			3.37					18.30				12.70		
BECY-6r	1.00					3.85			1.50											
BECY-8r	1.00					1.56			1.50					1.65				3.26		
BECY-10	1.00					1.50			1.50											
BECY-11	1.97					7.38			1.50											
BECY-12	1.00					1.67			1.50					1.44				12.90		
BECY-13	1.12					1.50			1.50					0.82				No Flow	0.70	
BECY-14	4.01					3.63			4.83					5.69				14.80		
BECY-15														0.95				No Flow	1.23	
BECY-16																		1.03		
Christine Place-R						1.50			1.50					0.72				0.50		

BECY-4 relocated in September 2009

Christine Place was relocated in September 2009 and changed to a grab-only sampling station

Beginning October 2009 - Composite sample from Auto Samplers are no longer collected. Instead, a grab sample is collected within 24-hours of rainfall.

BECY-6r, 10, & 11 - No Longer Sampled after February 2010

Results reported in µg/L

Table 17
Year 3 Data Summary - Nitrate-Nitrite (NOX)

Station	Jun-09 6/16/2009	Jul-09 7/7/2009	Jul-09 7/14/2009	Aug-09 8/3/2009	Aug-09 8/13/2009	Sept-09 9/24/2009	Oct-09 10/5/2009	Nov-09 11/10/2009	Dec-09 12/3/2009	Jan-10 1/22/2010	Jan-10 1/25/2010	Feb-10 2/2/2010	Feb-10 2/23/2010	Mar-10 3/3/2010	May-10 5/5/2010	May-10 5/18/2010	Jun-10 6/16/2010	Jul-10 7/27-28/10	Aug-10 8/27/2010	Sep-10 9/27/2010
BECY-1a Comp	0.01	0.01	0.01	0.05	0.05															
BECY-1a Grab	0.01	0.01	0.01	0.01	0.05		0.127				0.118	0.05	0.07	0.05				0.05		0.09
BECY-1a Grab After							0.0955		0.071		0.062	0.09	0.07	0.16	0.05			0.05		0.21
BECY-4a Comp		0.121		0.0157	0.302															
BECY-4a Grab		0.01	0.014	0.0203	0.359		0.5				0.126	0.14	0.20		0.34		0.34	No Flow		0.07
BECY-4a Grab After							0.151		0.218		0.132	0.09	0.21		0.16		0.08	No Flow		0.07
BECY-7ra Comp	0.01		0.0568	0.01	0.196															
BECY-7ra Grab	0.01		0.165	0.01	0.161		0.0675				0.406	0.42	0.47	0.43	0.18			0.05	0.25	0.48
BECY-7ra Grab After							0.108		0.267		0.147	0.26	0.42	0.44	0.13		0.05	0.05	0.13	0.21
BECY-9ra Comp	0.0224		0.0519	0.01	0.277															
BECY-9ra Grab	0.0262		0.0483	0.01	0.287		0.88				0.216	0.26	0.33	0.17				0.32	0.22	0.24
BECY-9ra Grab After							0.138		0.144		0.061	0.21	0.11	0.11	0.14			0.26	0.10	0.20
BMPep - Out Comp		0.01	0.024																	
BMPep - Out Grab		0.01	0.026	0.01	0.14	0.05					0.256	0.21	0.41		0.40			1.35		
BMPep - Out Grab After								0.117	0.218		0.169	0.10	0.05		0.12			0.05		
Southside Comp	0.01	0.01	0.0224	0.01	0.152															
Southside Grab	0.01	0.01	0.01	0.05	0.0535		0.19				0.408	0.312	0.243		0.0655			0.05		
Southside Grab After							0.166		0.099		0.149	0.05	0.20		0.05			0.05		
Christine Place Comp	0.0242			0.01	0.437															
Christine Place Grab	0.0648		0.01	0.01	0.395															
BECY-1	0.0715	0.01		0.01		0.05		0.112	0.054	0.050				0.05		0.10	0.07	0.06	0.09	
BECY-2	0.01	0.01		0.01		0.05		0.050	0.050	0.079				0.05		0.05	0.05	0.05	0.05	0.09
BECY-3	0.01	0.01		0.0131		0.05		0.061	0.050	0.050				0.05		0.05	0.05	0.05	0.05	0.06
BECY-4	0.01	0.01		0.01																
BECY-4r						0.05		0.103	0.059	0.050				0.06		0.11	0.08	0.08	0.06	
BECY-5	0.01	0.01				0.059		0.050	0.054	0.052				0.05		0.05	0.05	0.05	0.05	0.08
BECY-6r	0.0237	0.01		0.0191		0.05		0.116	0.805	0.271										
BECY-8r	0.0206	0.0243		0.0197		0.077		0.125	0.140	0.384				0.09		0.05	0.48	0.27	0.07	
BECY-10	0.01	0.0217		0.034		0.01		0.117	0.108	0.100										
BECY-11	0.137	0.01		0.01		0.05		0.113	0.083	0.117										
BECY-12	0.0695	0.01		0.0235		0.05		0.059	0.131	0.116				0.24		0.20	0.05	0.05	0.15	
BECY-13	0.156	0.52		0.355		0.084		0.620	0.245	0.195				0.37		0.58	0.40	No Flow	0.37	
BECY-14	0.01	0.01		0.01		0.05		0.092	0.057	0.052				0.05		0.05	0.05	0.05	0.05	0.07
BECY-15														0.07		0.05	0.06	No Flow	0.07	
BECY-16																0.19	0.07	0.16	0.13	
Christine Place-R						0.059		0.399	0.129	0.058				0.10		No Flow	0.05	0.05	0.10	

BECY-4 relocated in September 2009

Christine Place was relocated in September 2009 and changed to a grab-only sampling station

Beginning October 2009 - Composite sample from Auto Samplers are no longer collected. Instead, a grab sample is collected within 24-hours of rainfall.

BECY-6r, 10, & 11 - No Longer Sampled after February 2010

Results reported in mg/L

Table 18
Year 3 Data Summary - pH*

Station	Jun-09 6/16/2009	Jul-09 7/7/2009	Jul-09 7/14/2009	Aug-09 8/3/2009	Aug-09 8/13/2009	Sept-09 9/24/2009	Oct-09 10/5/2009	Nov-09 11/10/2009	Dec-09 12/3/2009	Jan-10 1/22/2010	Jan-10 1/25/2010	Feb-10 2/2/2010	Feb-10 2/23/2010	Mar-10 3/3/2010	May-10 5/5/2010	May-10 5/18/2010	Jun-10 6/16/2010	Jul-10 7/27-28/10	Aug-10 8/27/2010	Sep-10 9/27/2010
BECY-1a Grab	7.53	6.20	7.46	7.48	8.20		8.70					6.90	7.40	7.30				7.00		6.50
BECY-1a Grab After										7.70		7.60	7.00	6.70	6.86			7.00		7.10
BECY-4a Grab		7.10	6.12	8.55	8.42		8.40					6.70	6.80		7.10		7.00	No Flow		6.60
BECY-4a Grab After										7.30		6.60	6.80		6.89		7.30	No Flow		6.60
BECY-7ra Grab	7.10		7.16	7.86	8.47		7.80					7.80	7.10	6.80	7.60			7.10	6.90	7.10
BECY-7ra Grab After										7.60		7.40	6.90	6.90	7.50		7.40	7.20	6.50	7.10
BECY-9ra Grab	6.85		7.01	7.97	8.95		8.80					7.30	7.30	7.10				7.40	7.00	7.40
BECY-9ra Grab After										7.60		7.20	7.10	7.00	7.42			7.00	6.90	7.30
BMPep - Out Grab		7.60	6.70	9.63	8.10	8.62						6.60	6.90		7.63					8.10
BMPep - Out Grab After										7.20		6.90	6.90	7.50	7.92					8.00
Southside Grab		6.10	6.80	7.74	7.80		7.90					8.00	6.7							7.4
Southside Grab After										6.80		8.10	6.70		6.95					7.40
Christine Place Grab	7.11		7.24	7.53	8.20															
BECY-1	8.3	6.9		8.99		8.14		7.8		7.5				7.60		7.40	7.50	7.20	7.10	
BECY-2	7.33	6.3		8.61		7.5		7.7		7.6				7.50		7.40	7.60	7.20	7.20	
BECY-3	7.43	6.41		8.81		6.19		8.0		7.3				7.30		7.60	7.70	7.40	7.30	
BECY-4	7.2	6.6		7.68																
BECY-4r						8.36		7.6		7.4				8.40		7.30	7.20	7.30	7.20	
BECY-5	7.23	6.3				7.9		8.1		7.2				7.70		7.30	7.60	7.30	7.20	
BECY-6r	7.13	6.5		8.2		8.6		7.0		7.1										
BECY-8r	6.9	5.8		7.38		8.8		6.8		7				6.70		7.10	7.60	7.40	6.80	
BECY-10	6.86	6.5		4.64		8.6		6.9		6.9										
BECY-11	6.55	6.5		8.04		7.9		7.1		7										
BECY-12	7.26	5.9		8.1		8.4		7.5		6.9				6.70		7.30	7.30	7.40	6.80	
BECY-13	8.49	6.3		7.46		8.73		7.0		7.1				5.40		7.30	6.50	No Flow	6.30	
BECY-14	7.01	5.97		7.67		8.42		7.7		7.3				7.30		7.50	7.70	7.30	7.20	
BECY-15														6.60		7.10	6.90	No Flow	6.50	
BECY-16																7.60	7.70	7.60	7.20	
Christine Place-R						8.80		6.9		7.20				6.30		No Flow	6.90	7.40	6.60	

*pH is internally tracked for Critical Exceedance Concentration information

BECY-4 relocated in September 2009

Christine Place was relocated in September 2009 and changed to a grab-only sampling station

Beginning October 2009 - Composite sample from Auto Samplers are no longer collected. Instead, a grab sample is collected within 24-hours of rainfall.

BECY-6r, 10, & 11 - No Longer Sampled after February 2010

Results reported in pH Standard Units

Table 19
Year 3 Data Summary - Phosphorus* (Total)

Station	Jun-09 6/16/2009	Jul-09 7/7/2009	Jul-09 7/14/2009	Aug-09 8/3/2009	Aug-09 8/13/2009	Sept-09 9/24/2009	Oct-09 10/5/2009	Nov-09 11/10/2009	Dec-09 12/3/2009	Jan-10 1/22/2010	Jan-10 1/25/2010	Feb-10 2/2/2010	Feb-10 2/23/2010	Mar-10 3/3/2010	May-10 5/5/2010	May-10 5/18/2010	Jun-10 6/16/2010	Jul-10 7/27-28/10	Aug-10 8/27/2010	Sep-10 9/27/2010
BECY-1a Comp	0.174	0.194	0.153	0.146	0.203															
BECY-1a Grab	0.192	0.243	0.461	0.1	0.182		0.203				0.250	1.18	0.24	0.15				0.19		0.17
BECY-1a Grab After							0.375		0.339		0.211	0.24	0.53	0.11	0.69			0.21		0.41
BECY-4a Comp		0.124		0.404	0.38															
BECY-4a Grab		0.12	0.067	0.272	0.146		0.392				0.079	0.06	0.06		0.12		0.18	No Flow		0.14
BECY-4a Grab After							0.107		0.055		0.075	0.08	0.06		0.07		0.05	No Flow		0.14
BECY-7ra Comp	0.273		0.231	0.084	0.337															
BECY-7ra Grab	0.246		0.383	0.102	0.39		0.177				0.156	0.13	0.10	0.10	0.13			0.19	0.21	0.08
BECY-7ra Grab After							0.184		0.166		0.158	0.39	0.08	0.07	0.20		0.10	0.18	0.13	0.25
BECY-9ra Comp	0.218		0.298	0.268	0.277															
BECY-9ra Grab	0.223		0.497	0.261	0.192		0.608				0.500	0.36	0.15	0.14				0.17	0.21	0.15
BECY-9ra Grab After							0.145		0.298		0.188	0.19	0.08	0.07	0.11			0.25	0.16	0.32
BMPep - Out Comp		0.257	0.357																	
BMPep - Out Grab		0.317	0.319	0.118	0.154	0.219					0.275	0.16	0.17					0.36		
BMPep - Out Grab After								0.089	0.267		0.327	0.18	0.11		0.16			0.31		
Southside Comp	1.03	0.436	0.809	0.099	0.866															
Southside Grab	1.1	0.507	0.984	0.568	0.98		0.61				0.305	0.641	1.06		1.03			0.752		
Southside Grab After							0.58		0.297		0.384	0.66	0.29		0.79			0.76		
Christine Place Comp	0.172			0.062	0.564															
Christine Place Grab	0.32		0.092	0.052	0.639															
BECY-1	0.523	0.742		0.069		0.125		0.223	0.121	0.097				0.14		0.26	0.18	0.27	0.18	
BECY-2	0.22	0.247		0.2		0.094		0.105	0.177	0.254				0.08		0.11	0.09	0.12	0.10	
BECY-3	0.197	0.17		0.199		0.104		0.110	0.120	0.104				0.09		0.10	0.16	0.11	0.10	
BECY-4	0.141	0.157		0.19																
BECY-4r						0.125		0.135	0.346	0.220				0.10		0.45	0.10	0.12	0.11	
BECY-5	0.141	0.19				0.08		0.083	0.093	0.115				0.06		0.10	0.08	0.09	0.10	
BECY-6r	0.198	0.16		0.037		0.135		0.109	0.136	0.093										
BECY-8r	0.266	0.252		0.096		0.202		0.098	0.124	0.097				0.08		0.17	0.34	0.12	0.29	
BECY-10	0.188	0.236		0.173		0.155		0.181	0.339	0.193										
BECY-11	0.159	0.136		0.084		0.144		0.172	0.275	0.105										
BECY-12	0.247	0.337		0.101		0.124		0.133	0.214	0.143				0.07		0.13	0.12	0.39	0.20	
BECY-13	0.111	0.186		0.035		0.064		0.109	0.087	0.095				0.05		0.07	0.07	No Flow	0.07	
BECY-14	0.193	0.183		0.103		0.117		0.175	0.092	0.106				0.09		0.12	0.13	0.12	0.11	
BECY-15														0.18		0.30	1.53	No Flow	0.74	
BECY-16																0.12	0.15	0.08	0.23	
Christine Place-R						0.213		0.811	0.128	0.124				0.11		No Flow	0.12	0.04	0.83	

*Phosphorus (Total) is internally tracked for Critical Exceedance Concentration information

BECY-4 relocated in September 2009

Christine Place was relocated in September 2009 and changed to a grab-only sampling station

Beginning October 2009 - Composite sample from Auto Samplers are no longer collected. Instead, a grab sample is collected within 24-hours of rainfall.

BECY-6r, 10, & 11 - No Longer Sampled after February 2010

Results reported in mg/L

Table 20
Year 3 Data Summary - Salinity

Station	Jun-09 6/16/2009	Jul-09 7/7/2009	Jul-09 7/14/2009	Aug-09 8/3/2009	Aug-09 8/13/2009	Sept-09 9/24/2009	Oct-09 10/5/2009	Nov-09 11/10/2009	Dec-09 12/3/2009	Jan-10 1/22/2010	Jan-10 1/25/2010	Feb-10 2/2/2010	Feb-10 2/23/2010	Mar-10 3/3/2010	May-10 5/5/2010	May-10 5/18/2010	Jun-10 6/16/2010	Jul-10 7/27-28/10	Aug-10 8/27/2010	Sep-10 9/27/2010
BECY-1a Comp	1	9.1	7.8	1.9	2.2															
BECY-1a Grab	1	9.3	7.8	1.9	2.2		4.3				1.00	5.10	4.20	4.10				1.00		21.70
BECY-1a Grab After							1		1.00		1.00	1.00	1.00	1.00	1.00			1.00		1.10
BECY-4a Comp		1		1	1															
BECY-4a Grab		1	1	1	1		1				1.00	1.00	1.00		1.00		1.00	No Flow		1.00
BECY-4a Grab After							1		1.00		1.00	1.00	1.00		1.00		1.00	No Flow		1.00
BECY-7ra Comp	1		1	1.2	1															
BECY-7ra Grab	1		17.5	1	2.2		31.7				1.00	1.00	1.00	1.00	1.00			30.00	1.00	8.40
BECY-7ra Grab After							14.6		1.00		1.00	1.00	1.00	1.00	1.00		25.80	30.80	1.00	1.00
BECY-9ra Comp	1		1	1	1															
BECY-9ra Grab	1		1	1	1		1				1.00	1.00	1.00	1.00				1.00	1.00	1.00
BECY-9ra Grab After							1		1.00		1.00	1.00	1.00	1.00	1.00			1.00	1.00	1.00
BMPep - Out Comp		1	1																	
BMPep - Out Grab		1	1	1	1	1					1.00	1.00	1.00		1.00			1.00		
BMPep - Out Grab After								1.00	1.00		1.00	1.00	1.00		1.00			1.00		
Southside Comp	1	23.9	20	3.5	2.3															
Southside Grab	1	23.8	20.1	3.7	2.2		2.5				1.00	1	1		1			1		
Southside Grab After							1		1.00		1.00	1.00	1.00		1.00			1.00		
Christine Place Comp	1			1	1															
Christine Place Grab	1		1	1	1															
BECY-1	1	3		1		23.8		18.00	1.00	1.00				2.70		12.00	21.70	25.00	1.00	
BECY-2	16.1	22.8		1		14.6		32.30	1.00	1.00				17.10		27.90	27.80	28.30	15.40	
BECY-3	17.9	29.1		1		12.6		26.30	1.10	1.00				18.20		27.80	27.10	32.20	18.70	
BECY-4	23.7	30.1		19.8																
BECY-4r						1		1.70	1.00	1.00				1.00		1.00	5.20	1.40	1.00	
BECY-5	26.3	31				36.1		33.60	21.70	1.80				23.60		30.50	31.00	32.80	27.70	
BECY-6r	1	1		1		21.9		1.90	1.00	1.00										
BECY-8r	1	8		1		2.4		1.00	1.00	1.00				1.00		1.00	11.40	1.80	1.00	
BECY-10	1	1		1		1		1.00	1.00	1.00										
BECY-11	1	1		1		1		1.00	1.00	1.00										
BECY-12	1	7		1		11.1		6.00	1.00	1.00				1.00		1.00	17.00	28.90	1.00	
BECY-13	1	1		1		1		1.00	1.00	1.00				1.00		1.00	1.00	No Flow	1.00	
BECY-14	21.7	28.3		18.7		32.5		31.10	27.00	1.00				15.90		27.40	30.00	32.50	30.40	
BECY-15														1.00		1.00	1.00	No Flow	1.00	
BECY-16																1.00	1.00	1.00	1.00	1.00
Christine Place-R						1		1.00	1.00	1.00				1.00		No Flow	1.00	1.00	1.00	

BECY-4 relocated in September 2009

Christine Place was relocated in September 2009 and changed to a grab-only sampling station

Beginning October 2009 - Composite sample from Auto Samplers are no longer collected. Instead, a grab sample is collected within 24-hours of rainfall.

BECY-6r, 10, & 11 - No Longer Sampled after February 2010

Results reported in parts per thousand

Table 21
Year 3 Data Summary - Temperature

Station	Jun-09 6/16/2009	Jul-09 7/7/2009	Jul-09 7/14/2009	Aug-09 8/3/2009	Aug-09 8/13/2009	Sept-09 9/24/2009	Oct-09 10/5/2009	Nov-09 11/10/2009	Dec-09 12/3/2009	Jan-10 1/22/2010	Jan-10 1/25/2010	Feb-10 2/2/2010	Feb-10 2/23/2010	Mar-10 3/3/2010	May-10 5/5/2010	May-10 5/18/2010	Jun-10 6/16/2010	Jul-10 7/27-28/10	Aug-10 8/27/2010	Sep-10 9/27/2010
BECY-1a Grab	25.9	28.7	25.8	26.0	25.8		21.9					11.70	12.60	6.81				29.90	26.20	24.98
BECY-1a Grab After											14.6	11.60	12.20	10.10	23.20			30.10	26.00	25.48
BECY-4a Grab		24.9	24.5	24.9	24.4		21.9					12.80	15.10		21.11		26.10	No Flow	26.71	25.00
BECY-4a Grab After											15.4	12.70	15.20		20.61		24.90	No Flow	27.27	25.11
BECY-7ra Grab	26.1		24.4	25.1	24.1		20.3					11.00	11.10	7.90	19.84			27.10		23.34
BECY-7ra Grab After											14.7	10.60	11.60	6.00	20.15		27.00	27.50		24.02
BECY-9ra Grab	25.9		24.7	24.9	24.3		21.4					10.10	10.80	5.20				25.70		23.45
BECY-9ra Grab After											14.5	10.60	11.40	7.30	22.83			26.90		23.64
BMPep - Out Grab		29.2	28.5	29.6	29.4	29.3						10.60	13.30		25.14			28.60		
BMPep - Out Grab After								20.3			16.2	10.90	12.90	9.60	26.12			30.80		
Southside Grab	26.5	26.8	25.9	25.8	24.5		21.4					11.6	13.4					28.1		
Southside Grab After											14.4	11.30	13.60		21.89			28.10		
Christine Place Grab	26.9		28.5	29.2	29.5															
BECY-1	29.39	26.5		25.92		28.8		22.0		11.4				8.10		25.40	30.10	29.60	26.70	
BECY-2	32.26	28.5		30.2		29.4		20.7		11.6				9.60		26.90	31.80	31.40	29.40	
BECY-3	32	28.8		27.8		28.3		21.1		11.1				8.60		26.40	30.80	30.74	29.90	
BECY-4	31.18	29.2		29.9																
BECY-4r						25.6		19.6		11				7.20		22.90	26.80	26.70	26.40	
BECY-5	31.61	29.7				30.81		21.0		10.4				9.10		26.90	31.50	30.81	29.50	
BECY-6r	25.92	25.68		25.3		24.7		18.7		10.3										
BECY-8r	26.5	26.2		27.4		26.6		20.1		11				9.00		22.30	26.40	27.90	28.00	
BECY-10	24.84	25.12		25.39		24.33		17.7		10.7										
BECY-11	24.01	24.79		24.67		24.35		18.8		10.6										
BECY-12	24.53	25.62		24.33		24.99		18.5		10.7				7.50		22.00	24.70	26.40	25.80	
BECY-13	22.28	24.8		23.59		23.4		21.2		11.7				11.37		20.80	24.60	No Flow	25.70	
BECY-14	30.56	28.5		29.22		27.7		20.6		10.4				8.51		25.30	29.60	30.50	29.97	
BECY-15														7.70		21.60	24.20	No Flow	25.62	
BECY-16																24.20	28.47	28.30	27.70	
Christine Place-R						26.0		22.0		11.5				9.97		No Flow	30.70	31.20	29.80	

BECY-4 relocated in September 2009

Christine Place was relocated in September 2009 and changed to a grab-only sampling station

Beginning October 2009 - Composite sample from Auto Samplers are no longer collected. Instead, a grab sample is collected within 24-hours of rainfall.

BECY-6r, 10, & 11 - No Longer Sampled after February 2010

Results reported in °C

Table 22
Year 3 Data Summary - Total Kjeldahl Nitrogen (TKN)

Station	Jun-09 6/16/2009	Jul-09 7/7/2009	Jul-09 7/14/2009	Aug-09 8/3/2009	Aug-09 8/13/2009	Sept-09 9/24/2009	Oct-09 10/5/2009	Nov-09 11/10/2009	Dec-09 12/3/2009	Jan-10 1/22/2010	Jan-10 1/25/2010	Feb-10 2/2/2010	Feb-10 2/23/2010	Mar-10 3/3/2010	May-10 5/5/2010	May-10 5/18/2010	Jun-10 6/16/2010	Jul-10 7/27-28/10	Aug-10 8/27/2010	Sep-10 9/27/2010
BECY-1a Comp	0.934	0.451	1.01	0.418	0.05															
BECY-1a Grab	0.361	0.618	0.725	0.349	0.05		0.701				0.482	3.76	1.52	0.55				1.23		0.42
BECY-1a Grab After							0.689		0.377		0.291	0.52	2.06	0.41	3.26			1.08		1.59
BECY-4a Comp		0.399		0.196	0.302															
BECY-4a Grab		0.322	0.24	0.193	0.359		1.08				0.157	0.53	0.42		0.08		0.68	No Flow		0.39
BECY-4a Grab After							0.295		0.033		0.070	0.19	0.46		0.13		0.14	No Flow		0.27
BECY-7ra Comp	0.384		0.935	0.456	0.196															
BECY-7ra Grab	0.564		1.06	1.01	0.161		0.165				0.543	0.53	0.48	0.36	0.12			0.65	0.83	0.09
BECY-7ra Grab After							0.165		0.302		0.474	0.64	0.55	0.40	0.98		0.03	0.56	0.65	1.76
BECY-9ra Comp	0.358		1.14	1.01	0.277															
BECY-9ra Grab	0.308		1.29	0.836	0.287		1.81				0.181	0.64	0.47	0.36				0.98	0.65	1.43
BECY-9ra Grab After							0.43		0.123		0.182	0.16	0.31	0.22	0.11			1.28	0.44	1.04
BMPEP - Out Comp		0.926	2.12																	
BMPEP - Out Grab		0.587	1.94	0.794	0.14	0.928					0.945	0.72	0.82		1.31			0.95		
BMPEP - Out Grab After								0.607	1.440		0.654	0.71	0.69		1.08			1.88		
Southside Comp	1.5	0.747	1	0.713	0.152															
Southside Grab	2.77	0.767	1.36	1.11	0.0535		2.62				0.223	0.962	1.64		1.75			0.898		
Southside Grab After							1.07		0.407		0.379	1.05	0.64		1.32			1.10		
Christine Place Comp	1.07			0.333	0.437															
Christine Place Grab	1.54		0.787	0.129	0.395															
BECY-1	0.921	1.03		0.483		0.293		0.190	0.239	1.060				0.43		0.62	0.27	0.61	1.14	
BECY-2	0.527	0.24		0.29		0.255		0.130	0.651	0.437				0.12		1.03	0.03	0.39	0.03	
BECY-3	2.72	0.165		0.304		0.307		0.261	0.155	0.706				0.08		0.19	0.03	0.15	0.04	
BECY-4	0.464	0.165		0.033																
BECY-4r						0.955		0.194	0.385	0.670				0.47		0.83	0.29	0.72	1.02	
BECY-5	0.082	0.165				0.177		0.115	0.136	0.778				0.05		0.14	0.03	0.17	0.06	
BECY-6r	0.576	1.62		0.449		1.04		0.174	0.534	0.595										
BECY-8r	0.662	0.354		0.405		1.55		0.163	0.050	0.199				0.42		0.50	0.78	1.33	1.36	
BECY-10	0.969	0.255		0.354		0.67		0.626	0.384	0.559										
BECY-11	0.895	0.49		0.133		0.511		1.120	0.485	0.546										
BECY-12	0.612	0.277		0.283		0.426		0.127	0.580	0.816				1.30		0.39	0.03	0.58	0.81	
BECY-13	0.833	0.456		0.228		0.496		0.423	0.175	0.551				0.33		0.19	0.57	No Flow	0.48	
BECY-14	1.04	0.165		0.42		0.266		0.267	0.124	0.655				0.03		0.21	0.03	0.17	0.03	
BECY-15														0.40		0.51	0.81	No Flow	0.94	
BECY-16																0.28	0.72	0.70	0.90	
Christine Place-R						1.34		5.330	0.382	0.249				0.96		No Flow	1.04	1.00	5.83	

*Total Kjeldahl Nitrogen is internally tracked for Critical Exceedance Concentration information.

BECY-4 relocated in September 2009

Christine Place was relocated in September 2009 and changed to a grab-only sampling station

Beginning October 2009 - Composite sample from Auto Samplers are no longer collected. Instead, a grab sample is collected within 24-hours of rainfall.

BECY-6r, 10, & 11 - No Longer Sampled after February 2010

Results reported in mg/L

Table 23
Year 3 Data Summary - Total Organic Carbon (TOC)

Station	Jun-09 6/16/2009	Jul-09 7/7/2009	Jul-09 7/14/2009	Aug-09 8/3/2009	Aug-09 8/13/2009	Sept-09 9/24/2009	Oct-09 10/5/2009	Nov-09 11/10/2009	Dec-09 12/3/2009	Jan-10 1/22/2010	Jan-10 1/25/2010	Feb-10 2/2/2010	Feb-10 2/23/2010	Mar-10 3/3/2010	May-10 5/5/2010	May-10 5/18/2010	Jun-10 6/16/2010	Jul-10 7/27-28/10	Aug-10 8/27/2010	Sep-10 9/27/2010
BECY-1a Comp	13.8																			
BECY-1a Grab	13.2						7.45				10.9			9.05					13.40	
BECY-1a Grab After							15.5		18.2					14.70					14.00	
BECY-4a Comp		8.17																		
BECY-4a Grab		8.73					13.4				9.9				10.10				No Flow	
BECY-4a Grab After							5.85		8.8						5.66				No Flow	
BECY-7ra Comp	22.8																			
BECY-7ra Grab	21.5						3.47				15.7			10.60					7.30	
BECY-7ra Grab After							3		18.8					11.20					6.95	
BECY-9ra Comp	10.1																			
BECY-9ra Grab	9.91						12.6				10.5			9.70					9.65	
BECY-9ra Grab After							7.7		9.4					8.44					14.00	
BMPEP - Out Comp		15.8																		
BMPEP - Out Grab		15.4				12					13.1				13.30				9.36	
BMPEP - Out Grab After									10.3						12.20				22.10	
Southside Comp	11.7																			
Southside Grab	11.5						7.58				11.3				9.96				12.1	
Southside Grab After							8.08		9.6						14.40				11.40	
Christine Place Comp	13.6																			
Christine Place Grab	15.6																			
BECY-1	17.6					3.12			27.0					14.40					3.24	
BECY-2	3.41					4.3			16.4					2.69					2.05	
BECY-3	3.74					9.19			19.7					3.13					2.02	
BECY-4	1.86																			
BECY-4r						28.6			21.6					22.20					9.59	
BECY-5	1.55					1.39			12.5					2.07					1.72	
BECY-6r	22.1					8.28			20.5											
BECY-8r	15.9					8.71			12.1					15.00					16.30	
BECY-10	8.5					8.12			16.8											
BECY-11	8.3					9.46			12.9											
BECY-12	22.6					9.16			26.1					20.90					15.60	
BECY-13	8.63					6.31			11.2					7.49					No Flow	11.70
BECY-14	3.56					2.3			2.0					4.05					2.51	
BECY-15														16.00					No Flow	33.20
BECY-16																			11.40	
Christine Place-R						11.3			9.8					13.30					13.40	

BECY-4 relocated in September 2009

Christine Place was relocated in September 2009 and changed to a grab-only sampling station

Beginning October 2009 - Composite sample from Auto Samplers are no longer collected. Instead, a grab sample is collected within 24-hours of rainfall.

BECY-6r, 10, & 11 - No Longer Sampled after February 2010

Results reported in mg/L

Table 24
Year 3 Data Summary - Total Suspended Solids (TSS)

Station	Jun-09 6/16/2009	Jul-09 7/7/2009	Jul-09 7/14/2009	Aug-09 8/3/2009	Aug-09 8/13/2009	Sept-09 9/24/2009	Oct-09 10/5/2009	Nov-09 11/10/2009	Dec-09 12/3/2009	Jan-10 1/22/2010	Jan-10 1/25/2010	Feb-10 2/2/2010	Feb-10 2/23/2010	Mar-10 3/3/2010	May-10 5/5/2010	May-10 5/18/2010	Jun-10 6/16/2010	Jul-10 7/27-28/10	Aug-10 8/27/2010	Sep-10 9/27/2010
BECY-1a Comp	8.8	44.8	10.6	11	12.6															
BECY-1a Grab	11.7	13.2	14.1	26.5	18.8		14.4				16.40	37.50	9.78	15.00				10.00		73.80
BECY-1a Grab After							66.2		3.30		8.57	50.00	15.20	12.40	54.00			18.70		Jan-00
BECY-4a Comp		29.2		6	7.72															
BECY-4a Grab		2	2.2	22.9	3.45		53.7				8.80	13.60	3.80		34.00		37.30	No Flow		6.80
BECY-4a Grab After							16		1.70		58.70	5.40	2.20		10.90		13.50	No Flow		5.20
BECY-7ra Comp	8.8		29.8	20.3	35															
BECY-7ra Grab	13		71.1	21.9	5.12		119				36.00	127.00	18.20	21.80	36.80			48.90	12.40	2.28
BECY-7ra Grab After							67.5		5.60		113.00	31.40	6.20	5.80	19.20		20.40	43.20	2.28	262.00
BECY-9ra Comp	18.5		76.3	4.07	60															
BECY-9ra Grab	109		42.4	16.1	14		93.3				31.60	36.80	53.20	10.60				19.60	5.40	17.60
BECY-9ra Grab After							15.7		37.60		24.40	53.20	6.30	9.80	183.00			19.20	6.20	155.00
BMPep - Out Comp		7.59	10.5																	
BMPep - Out Grab		13	13.9	10.7	17.5						18.40	7.21	3.40		3.60			1.60		
BMPep - Out Grab After								55.40	12.00		11.20	4.80	2.80		6.00			13.20		
Southside Comp	6.4	65	150	11.5	104															
Southside Grab	15.3	64.4	92.7	16.6	37.2		26.7				22.9	45.3	17.2		13.2			4		
Southside Grab After							118		11.70		9.14	53.60	10.00		78.40			4.40		
Christine Place Comp	11.3			11.6	198															
Christine Place Grab	288		7.5	14.2	17.7															
BECY-1	48.1	34		12.9		27		42.40	15.80	13.10				13.40		37.20	22.00	20.40	10.80	
BECY-2	42.4	42.7		36.2		24.3		44.80	42.00	14.90				17.80		45.80	19.20	27.20	17.60	
BECY-3	68.1	44.3		57.2		32.5		46.00	17.80	20.90				45.70		65.60	126.00	77.20	31.60	
BECY-4	26	25		41.7																
BECY-4r						8.67		37.20	12.00	10.90				9.80		16.00	9.40	3.60	5.60	
BECY-5	36.1	68				41.2		47.70	29.40	19.40				19.40		44.30	27.20	84.40	71.20	
BECY-6r	18.1	25.6		36.4		43		16.00	9.13	8.00										
BECY-8r	7.2	14.6		12.4		2.28		11.80	14.00	65.40				5.40		18.00	147.00	34.00	10.80	
BECY-10	6.8	5		5		46.8		9.82	26.00	13.40										
BECY-11	479	7.45		19.6		72.5		28.00	13.30	4.60										
BECY-12	57	47.2		13.3		65.5		33.00	25.60	15.60				6.80		24.90	30.50	256.00	30.40	
BECY-13	37.6	8		12.4		39.3		17.00	3.20	6.00				3.80		4.00	10.60	No Flow	6.00	
BECY-14	73	19.8		96.1		28.4		48.10	19.50	16.90				50.00		68.00	51.40	38.60	34.40	
BECY-15														6.20		20.80	24.20	No Flow	14.40	
BECY-16																4.40	22.00	6.40	8.00	
Christine Place-R						101		161.00	4.13	9.20				9.40		No Flow	19.90	10.80	507.00	

BECY-4 relocated in September 2009

Christine Place was relocated in September 2009 and changed to a grab-only sampling station

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BECY-6r, 10, & 11 - No Longer Sampled after February 2010

Results reported in mg/L

Table 25
Year 3 Data Summary - Turbidity

Station	Jun-09 6/16/2009	Jul-09 7/7/2009	Jul-09 7/14/2009	Aug-09 8/3/2009	Aug-09 8/13/2009	Sept-09 9/24/2009	Oct-09 10/5/2009	Nov-09 11/10/2009	Dec-09 12/3/2009	Jan-10 1/22/2010	Jan-10 1/25/2010	Feb-10 2/2/2010	Feb-10 2/23/2010	Mar-10 3/3/2010	May-10 5/5/2010	May-10 5/18/2010	Jun-10 6/16/2010	Jul-10 7/27-28/10	Aug-10 8/27/2010	Sep-10 9/27/2010
BECY-1a Grab	9.8	11.0	19.9	12.5	10.1		4.8					54.80	10.40	14.97				20.40		30.30
BECY-1a Grab After										14.0		21.40	18.70	14.10	45.10			20.10		Feb-00
BECY-4a Grab		14.3	11.8	9.7	17.3		11.6					4.61	52.00		28.50		34.80	No Flow		21.10
BECY-4a Grab After										8.7		14.44	9.60		14.50		14.30	No Flow		20.50
BECY-7ra Grab	15.2		14.5	23.5	72.3		23.5					14.90	15.20	10.20	69.40			56.80	40.60	32.10
BECY-7ra Grab After										21.9		51.20	13.70	8.33	22.20		26.60	50.10	19.60	190.00
BECY-9ra Grab	26.2		34.6	11.1	36.0		22.8					64.90	102.60	13.30				20.00	17.20	26.40
BECY-9ra Grab After										24.7		24.10	21.90	7.20	21.70			25.50	26.30	131.00
BMPep - Out Grab		14.0	9.1	9.2	15.2	14.2						9.81	8.40		33.10			7.90		
BMPep - Out Grab After								12.6			11.7	19.64	11.30	22.58	25.30			13.10		
Southside Grab	19.2	19.4	35.9	13.8	35.5		25.0					9.21	48.2					11.9		
Southside Grab After										19.7		10.40	18.10		20.50			10.70		
Christine Place Grab			14.2	10.8	16.0															
BECY-1	24.4	44.9		12.91		9.77		17.2	23					10.68		37.50	20.40	16.20	24.90	
BECY-2	14.04	21.4		17.7		12.7		19.6	14.9					6.41		21.10	37.40	17.80	20.70	
BECY-3	29.14	27.4		21.63		14.24		29.0	19.9					18.50		26.10	68.10	39.30	24.50	
BECY-4	4.01	17.01		17.13																
BECY-4r						11.54		21.0	12.4					14.80		30.00	25.40	13.70	14.30	
BECY-5	11.09	54.14				27.4		19.9	11.6					6.90		27.40	15.10	20.90	34.30	
BECY-6r	17.19	34.84		19.06		14.1		17.4	10.3											
BECY-8r	11.61	28.71		5.4		14.2		10.9	15.8					7.96		20.40	26.80	33.90	18.20	
BECY-10	11.12	14.64		8.28		35.2		18.1	14.7											
BECY-11	21.05	11.94		10.34		67.6		11.4	11.2											
BECY-12	25.64	41.84		10.11		189.7		19.0	16.9					9.30		40.60	35.60	103.70	826.00	
BECY-13	11.51	34.64		9.38		14.4		20.4	7.1					1.88		11.50	13.60	No Flow	12.80	
BECY-14	14.4	14.91		24.54		13.4		19.2	9.9					12.30		32.20	36.70	20.20	29.00	
BECY-15														10.95		28.00	30.50	No Flow	30.60	
BECY-16																14.20	34.90	18.20	17.10	
Christine Place-R						22.7		72.0	8.4					17.04		No Flow	17.80	17.50	283.30	

BECY-4 relocated in September 2009

Christine Place was relocated in September 2009 and changed to a grab-only sampling station

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BECY-6r, 10, & 11 - No Longer Sampled after February 2010

Results reported in Nephelometric Turbidity Units

Table 26
Year 3 Data Summary - Zinc (Total)

Station	Jun-09 6/16/2009	Jul-09 7/7/2009	Jul-09 7/14/2009	Aug-09 8/3/2009	Aug-09 8/13/2009	Sept-09 9/24/2009	Oct-09 10/5/2009	Nov-09 11/10/2009	Dec-09 12/3/2009	Jan-10 1/22/2010	Jan-10 1/25/2010	Feb-10 2/2/2010	Feb-10 2/23/2010	Mar-10 3/3/2010	May-10 5/5/2010	May-10 5/18/2010	Jun-10 6/16/2010	Jul-10 7/27-28/10	Aug-10 8/27/2010	Sep-10 9/27/2010
BECY-1a Comp	14.9																			
BECY-1a Grab	7.8						3.66				19.20			6.62				5.51		
BECY-1a Grab After							72.8		32.40					12.80				3.78		
BECY-4a Comp		9.29																		
BECY-4a Grab		7.65					13.5			5.08					23.90			No Flow		
BECY-4a Grab After							11.7		7.47						5.87			No Flow		
BECY-7ra Comp	9.62																			
BECY-7ra Grab	9.15						33			11.80				9.45				22.50		
BECY-7ra Grab After							14.9		14.20					9.65				20.80		
BECY-9ra Comp	51.7																			
BECY-9ra Grab	25.1						20			24.70				12.90				29.70		
BECY-9ra Grab After							14.6		18.90					9.02				22.90		
BMPep - Out Comp		5.35																		
BMPep - Out Grab		5.55				3.3				5.32					54.00			7.82		
BMPep - Out Grab After									4.12						3.00			3.00		
Southside Comp	8.99																			
Southside Grab	9.18						11.2			28					3			9.37		
Southside Grab After							11.2		15.50						10.70			3.91		
Christine Place Comp	10.2																			
Christine Place Grab	84.3																			
BECY-1	11.4					16.5			6.01					4.10				7.99		
BECY-2	13.3					16.5			5.79					6.37				8.52		
BECY-3	14.6					3.3			4.58					6.12				14.10		
BECY-4	10																			
BECY-4r						4.21			5.71					3.00				3.00		
BECY-5	10					16.5			4.10					8.66				11.10		
BECY-6r	15.1					79			19.10											
BECY-8r	15.4					22.5			20.70					18.10				49.60		
BECY-10	8.2					4.38			15.10											
BECY-11	32.5					19.9			17.50											
BECY-12	10.8					3.3			19.70					7.30				23.70		
BECY-13	7.74					5.38			4.10					4.19				No Flow	3.13	
BECY-14	10					16.5			18.00					30.90				13.20		
BECY-15														9.09				No Flow	12.00	
BECY-16																		3.52		
Christine Place-R						16.7			3.97					13.90				3.00		

BECY-4 relocated in September 2009

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Results reported in µg/L