



ANNUAL REPORT FORM FOR INDIVIDUAL NPDES PERMITS FOR MUNICIPAL SEPARATE STORM SEWER SYSTEMS (RULE 62-624.600(2), F.A.C.)

- This Annual Report Form must be completed and submitted to the Department to satisfy the annual reporting requirements established in Rule 62-621.600, F.A.C.
- Submit this fully completed and signed form and any REQUIRED attachments by mail to the address in the box at right.
- Refer to the Form Instructions for guidance on completing each section.
- **Please print or type information in the appropriate areas below.**

Submit the form and attachments to:
 Florida Department of Environmental Protection
 Mail Station 2500
 2600 Blair Stone Road
 Tallahassee, Florida 32399-2400

SECTION I. BACKGROUND INFORMATION

A.	Permittee Name: East County Water Control District		
B.	Permit Name: Lee County Municipal Separate Storm Sewer System		
C.	Permit Number: FLS000035		
D.	Annual Report Year: <input type="checkbox"/> Year 1 <input type="checkbox"/> Year 2 <input type="checkbox"/> Year 3 <input type="checkbox"/> Year 4 <input type="checkbox"/> Year 5 <input checked="" type="checkbox"/> Other, specify Year: 6		
E.	Reporting Time Period (month/year): 03/09 through 02/10		
F.	Name of the Responsible Authority: David Lindsay		
	Title: District Manager		
	Mailing Address: 601 East County Lane		
	City: Lehigh Acres	Zip Code: 33936	County: Lee
	Telephone Number: 239-368-0044		Fax Number: 239-368-3412
E-mail Address: DLindsay@ecwcd.com			
G.	Name of the Designated Stormwater Management Program Contact (if different from Section I.F above): Mike Cook		
	Title: Assistant District Manager		
	Department: Dept. 1		
	Mailing Address: 601 east County Lane		
	City: Lehigh Acres	Zip Code: 33936	County: Lee
Telephone Number: 239-368-0044		Fax Number: 239-368-3412	
E-mail Address: mcook@ecwcd.com			

SECTION II. MS4 MAJOR OUTFALL INVENTORY (Not Applicable In Year 1)

A.	Number of outfalls ADDED to the outfall inventory in the current reporting year (insert "0" if none): 0 (Does this number include non-major outfalls? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable)
B.	Number of outfalls REMOVED from the outfall inventory in the current reporting year (insert "0" if none): 0 (Does this number include non-major outfalls? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable)
C.	Is the change in the total number of outfalls due to lands annexed or vacated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable

SECTION III. MONITORING PROGRAM

A.	<p>Provide a brief statement as to the status of monitoring plan implementation:</p> <p>ECWCD has an ongoing contract with the City of Cape Coral, Inc. to collect monthly samples from 19 surface water monitoring stations. Testing is performed in three different levels.</p> <p>Monthly samples include: BOD, Chlorides, Fecal Coliform, Fecal Strep, TSS, TDS, Turbidity, Conductivity, DO, and PH.</p> <p>Quarterly sampling includes all monthly parameters plus: Nitrate-N, Nitrite-N, Total Nitrogen, Total Kjeldahl Nitrogen, Total Phosphorous and Ammonia-N.</p> <p>Semi-annually includes the addition of: COD, Lead, Copper, Chromium, Zinc, Oil and Grease.</p> <p>The district understands that the NPDES permit requirements may amend the testing requirements. ECWCD has been recording water quality data at 19 sampling stations for over 20 years.</p>
B.	<p>Provide a brief discussion of the monitoring results to date:</p> <p>The wet season data is more reflective of surface water runoff while the dry season demonstrates the impacts of base flow conditions. DO and Chl-a are generally higher in the dry season than in the wet season, while nutrients have inverse relationship.</p>
C.	<p>Attach a monitoring data summary, as required by the permit.</p>

SECTION IV. FISCAL ANALYSIS

A.	<p>Total expenditures for the NPDES stormwater management program for the current reporting year: \$4,075,647.00</p>
B.	<p>Total budget for the NPDES stormwater management program for the subsequent reporting year: \$4,618,949.00</p>

SECTION V. MATERIALS TO BE SUBMITTED WITH THIS ANNUAL REPORT FORM

Only the following materials are to be submitted to the Department along with this fully completed and signed Annual Report Form (check the appropriate box to indicate whether the item is attached or is not applicable):

<u>Attached</u>	<u>N/A</u>	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Any additional information required to be submitted in this current annual reporting year in accordance with Part III.A of your permit that is not otherwise included in Section VII below.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	A monitoring data summary as directed in Section III.C above and in accordance with Rule 62-624.600(2)(c), F.A.C.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Year 1 ONLY: An inventory of all known major outfalls and a map depicting the location of the major outfalls (hard copy or CD-ROM) in accordance with Rule 62-624.600(2)(a), F.A.C.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Year 3 ONLY: The estimates of pollutant loadings and event mean concentrations for each major outfall or each major watershed in accordance with Rule 62-624.600(2)(b), F.A.C.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Year 4 ONLY: Permit re-application information in accordance with Rule 62-624.420(2), F.A.C.

DO NOT SUBMIT ANY OTHER MATERIALS
(such as records and logs of activities, monitoring raw data, public outreach materials, etc.)

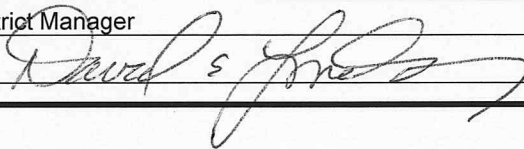
SECTION VI. CERTIFICATION STATEMENT AND SIGNATURE

The Responsible Authority listed in Section I.F above must sign the following certification statement, as per Rule 62-620.305, F.A.C:

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

Name of Responsible Authority (type or print): David Lindsay

Title: District Manager

Signature:  Date: 8/19/10

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE

A.	B.	C.	D.	E.	F.
Permit Citation/SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation/ Record	Entity Performing the Activity	Comments
Part III.A.1	Structural Controls and Stormwater Collection Systems Operation				
	Maintain an up-to-date inventory of stormwater facilities operated by the permittee. Provide any updates to the inventory in the subsequent ANNUAL REPORT.				
	Wet retention ponds	3	GIS Mapping	ECWCD	
	Channels/canals (miles)	293 Miles	GIS Mapping	ECWCD	This is canals only. Grassed swales were subtracted out and added to ditch/swale totals below.
	Water Control Structures Weirs	78	GIS Mapping	ECWCD	Changed name from Weirs to Water Control Structures. This includes primary and secondary structures and culverts with water control devices.
	Pump stations	1	GIS Mapping	ECWCD	The pump is not operable and will not be repaired or used in the near future.
	Ditches/swales (miles)	18 Miles	GIS Mapping	ECWCD	A reassessment of the District revealed grass swales were totaled with Channel/Canals. The total miles were subtracted from canal totals and added to Ditches/Swales.
	Inlets/catch basins/grates	7			The 7 Inlet/Catch Basins/Grates owned by the District are located at the District's headquarters and are associated with the 3 wet retention ponds on site. All but these 7 of the inlets, catch basins and grates reported on last year were found not to be owned by ECWCD and are not part of Districts infrastructure.
	Pipes/Culverts	345	GIS Mapping	ECWCD	ECWCD owns 345 of the 373 culverts inventoried within the District boundaries. The other 27 culverts are owned by Lee County or individuals with permitted culverts.
	Conduct inspections and maintenance of structural controls and roadway stormwater collection structures in accordance with Table II.A.1.a of the permit. Maintain an				

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Permit Citation/SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation/ Record	Entity Performing the Activity	Comments
	internal record keeping system to schedule and document inspections and maintenance activities performed on structural controls and roadway stormwater collection structures operated by the permittee. Report on the inspections and maintenance conducted in each ANNUAL REPORT.				
	Wet retention pond inspections	1	Retention/Detention pond inspection form / Paper file	ECWCD	Retention ponds are inspected annually. All 3 ponds were inspected 1 time during this reporting period
	Wet retention pond maintenance	1	ECWCD Daily Canal Mowing Weed-eating form / Paper file	ECWCD	Retention/Detention pond maintenance was performed 4 times during the reporting period.
	Channel/canal inspections (miles)	311	Right-of-way/Canal field inspection forms / Paper file	ECWCD	All 311 miles were inspected 1 time during the reporting period as part of the Right-of-way and field inspections.
	Channel/canal maintenance (miles)			ECWCD	Canal maintenance has been broken up into herbicide application, mechanical clean out and mowing (See totals below)
	Herbicide Application	4968.39 Acres	Equipment maintenance Database/canals sprayed query report	ECWCD	Canals are sprayed on an as needed basis.
	Mechanical Clean out	49.68 Miles	Equipment maintenance Database/Monthly canal clean out totals report	ECWCD	All canals are cleaned out on a 7 year rotating cycle. (Spot clean out is performed as needed)

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Permit Citation/SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation/ Record	Entity Performing the Activity	Comments
	Mowing	Slope mowing 932 miles 1526 acres Flat mowing 1565 miles 2845 acres	Equipment maintenance Database/ Monthly flat and slope mowing totals report	ECWCD	Canals are mowed on an as needed basis. Mowed a minimum of 3 times annually.
	Weir inspections	3	Primary and Secondary structure inspections/Paper file	ECWCD	All primary and secondary structures were inspected 3 times during the reporting year. The annual Facility review was started late during this reporting period and was not completed until May of 2010.
	Weir maintenance	51	Structure maintenance form/Paper file	ECWCD	Weir maintenance is performed on an as needed basis. 43 of the 78 structures required maintenance during the reporting year. 8 structures were completely rebuilt this year
	Pump station inspections	1	Pump Station Inspection File/Paper File	ECWCD	1 Inspection was performed on the pump during this reporting year. The pump is not operable and will not be repaired or used in the near future.
	Pump station maintenance	0		ECWCD	Pump station was not operable during the reporting period. No maintenance was needed.
	Ditch/swale inspections (miles)	1	Right-of-way/Canal field inspection forms / Paper file	ECWCD	All 18 miles were inspected during the reporting period as part of the Right-of-way and field inspections.
	Ditch/swale maintenance (miles)	1	Equipment maintenance Database /Monthly flat and slope Mowing totals report Equipment maintenance Database / canals sprayed query report totals report.	ECWCD	Mowed and maintained as part of the canal maintenance program.
	Inlet/catch basin/grate inspections	1	Inlet/Catch Basin/Grate inspection File/ Paper File	ECWCD	The 7 Inlet/Catch Basins/Grates owned by the District are located

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	<p style="text-align: center;">Inlet/catch basin/grate maintenance</p>	0		ECWCD	<p>at the District's headquarters and are associated with the 3 wet retention ponds on site. All but 7 of the inlets, catch basins and grates reported on last year were found not to be owned by ECWCD and are not part of Districts infrastructure. All 7 inlets owned by the District were inspected 1 time during this reporting period.</p> <p>Maintained on a as needed basis. No maintenance was required during this reporting year.</p>
Part III.A.2	Areas of New Development and Significant Redevelopment				
	Not Applicable				
Part III.A.3	Roadways				
	<p>Continue to implement the litter control programs for public highways and streets, including rights-of-way, employed within the permittee's jurisdictional area and properly dispose of collected material. Report on the litter collection activities, including the frequency of litter collection and an estimate of the quantity of litter collected, in each ANNUAL REPORT.</p> <p style="text-align: center;">Number of litter collections</p> <p style="text-align: center;">Amount of litter collected (cubic yards)</p> <p style="text-align: center;">Total miles of right-of-way maintained</p>	17	ECWCD Trash Removal Form/ Paper file	ECWCD	<p>All roadways and road right-of-ways are owned and operated by Lee County. ECWCD collects trash and debris only on canal right-of-ways and in canals owned by the District.</p> <p>All roadways and road right-of-ways are owned and operated by Lee County. ECWCD collects trash and debris only on canal right-of-ways and in canals owned by the District.</p> <p>All roadways and road right-of-ways are owned and operated by Lee County. ECWCD collects trash and debris only on canal right-of-ways and in canals owned by the District.</p>
	Continue to implement standard practices employed to reduce the pollutants in stormwater runoff from areas				

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Permit Citation/SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation/Record	Entity Performing the Activity	Comments
Part III.A.7.f	Illicit Discharges and Improper Disposal — Oils, Toxics, and Household Hazardous Waste Control				
	Not Applicable				
Part III.A.7.g	Illicit Discharges and Improper Disposal — Limitation of Sanitary Sewer Seepage				
	Continue to implement procedures to reduce or eliminate discharges to the MS4 from sanitary sewer seepage and sanitary sewer overflows (SSOs). Report on the activities to reduce or eliminate seepage and SSOs, such as number of incidents discovered and resolved, in each ANNUAL REPORT.				
	Sanitary sewer seepage incidents discovered		Sanitary Sewer Seepage file Paper file	Florida Governmental Utility Authority	Sewer Utilities are owned and operated by Florida Governmental Utility Authority.
	Sanitary sewer seepage incidents resolved	0	Sanitary Sewer Seepage file Paper file	Florida Governmental Utility Authority	Sewer Utilities are owned and operated by Florida Governmental Utility Authority
	Sanitary sewer overflows (SSOs) discovered	8	Sanitary Sewer Overflows file Paper file	Florida Governmental Utility Authority	Sewer Utilities are owned and operated by Florida Governmental Utility Authority. 8 incidents were reported to ECWCD by FGUA during this reporting year.
Part III.A.8.a	Industrial and High-Risk Runoff — Identification of Priorities and Procedures for Inspections				
	Not Applicable				
Part III.A.8.b	Industrial and High-Risk Runoff — Monitoring for High Risk Industries				
	Not Applicable				
Part III.A.9.a	Construction Site Runoff — Site Planning and Non-Structural and Structural Best Management Practices				
	Not Applicable				
Part III.A.9.b	Construction Site Runoff — Inspection and Enforcement				
	Not Applicable				
Part III.A.9.c	Construction Site Runoff — Site Operator Training				
	Not Applicable				

SECTION VIII. CHANGES TO THE STORMWATER MANAGEMENT PROGRAM (SWMP) ACTIVITIES (Not Applicable In Year 4)

A.	Permit Citation/SWMP Element	Proposed Changes to the Stormwater Management Program Activities Established as Specific Requirements Under Part III.A of the Permit (Including the Rationale for the Change) — REQUIRES DEP APPROVAL PRIOR TO CHANGE IF PROPOSING TO REPLACE OR DELETE AN ACTIVITY.

SECTION VIII. CHANGES TO THE STORMWATER MANAGEMENT PROGRAM (SWMP) ACTIVITIES (Not Applicable In Year 4)

B.	Permit Citation/ SWMP Element	Changes to the Stormwater Management Program Activities NOT Established as Specific Requirements Under Part III.A of the Permit (Including the Rationale for the Change)

Water Quality Summary

ECWCD has 5 major outfalls discharging from its MS4. The receiving bodies are Orange River, Hickey's Creek, Bedman Creek and the Caloosahatchee River. The district has been conducting monthly water monitoring at these locations for over 25 years. Quarterly sampling includes all monthly parameters plus: Nitrate-N, Nitrite-N, Total Nitrogen, Total Kjeldahl Nitrogen, Total Phosphorous and Ammonia-N.

Site 22 discharges to the Orange River and is located at the discharge of the Harn's Marsh. This site receives water from the most heavily populated area of Lehigh Acres.

Site 27 discharges to the Orange River and is located at the discharge of the Buckingham Park subdivision. Buckingham Park is a small subdivision that has undergone rapid growth, it is estimated that it is 80% populated.

Site 11 discharges to Hickey's Creek, the area surrounding the site is undeveloped and only 30% of the area that discharges water to this basin is populated.

Site 14 discharges to the Bedman Creek this basin is approximately 10% populated.

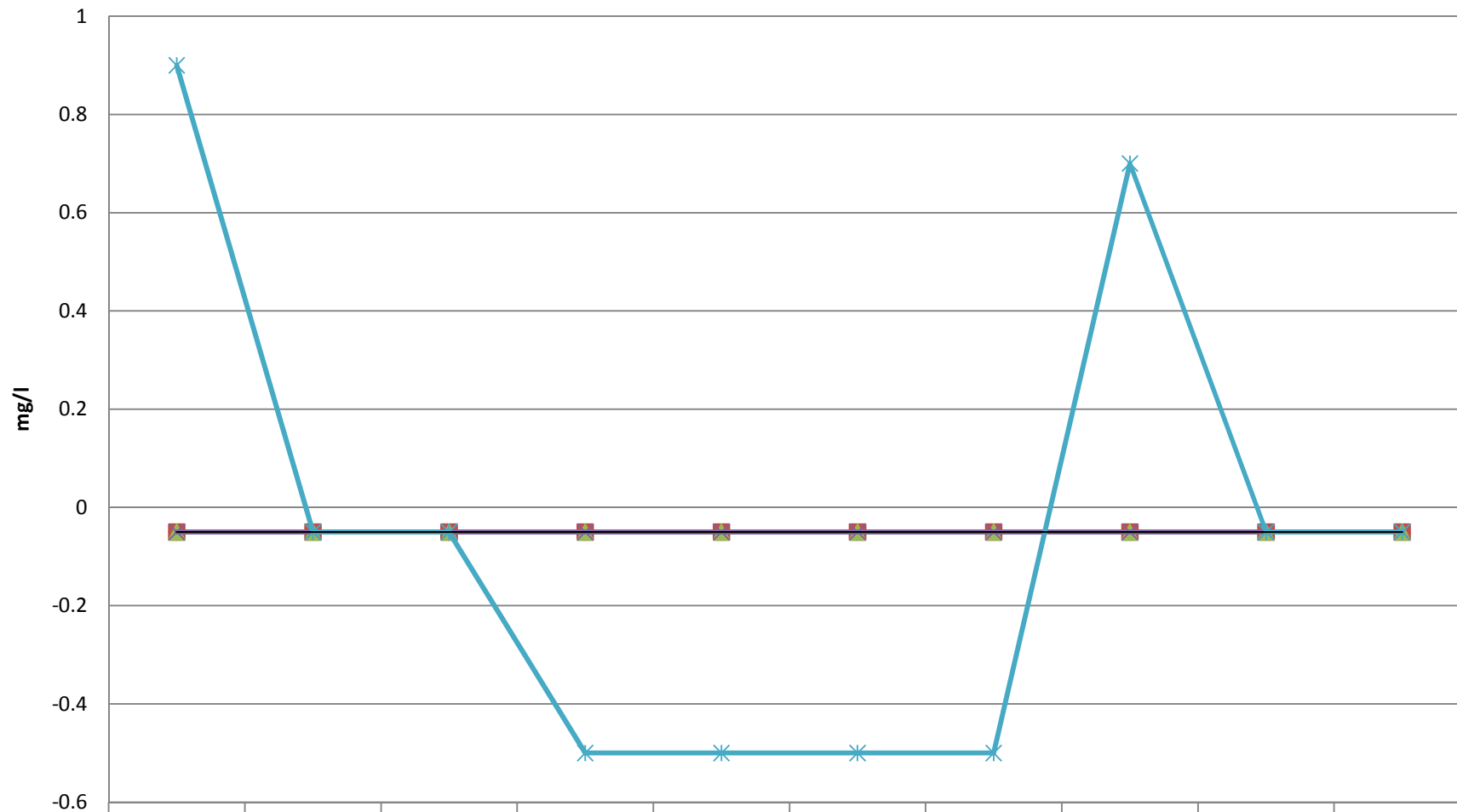
Site 15 discharges to the Carlos Waterway; this basin is approximately 10% populated.

During the last reporting year the District replaced eight water control structures S-HM-1, S-HM-2, S-HM-3, S-YT-1, S-WW1, S-SF-2, S-H-1, S-D-2 and S-P-1. This also includes the improvement of an existing wetland. Five of the water control structures are directly associated with three of the Districts discharge points. S-HM-1, S-HM-2 and the S-HM-3 structures were designed to divert water into and out of Harn's Marsh, a 580 +/- acre filter marsh. This will help to improve the water quality at Orange River. The other two are water control structures S-D-2 and S-H-1 are located close to discharge points and will help the District control stormwater discharges to the Caloosahatchee River. The 2.62 +/- acre Jim Fleming Eco Park site was designed to create a roadside wetland park and to treat Lee Blvd stormwater runoff.

East County Water Control District strives to improve water quality within its boundaries and at its discharge points. All new structures as well as replacement structures are designed to enhance water quality and give the District optimal control over discharged stormwater.

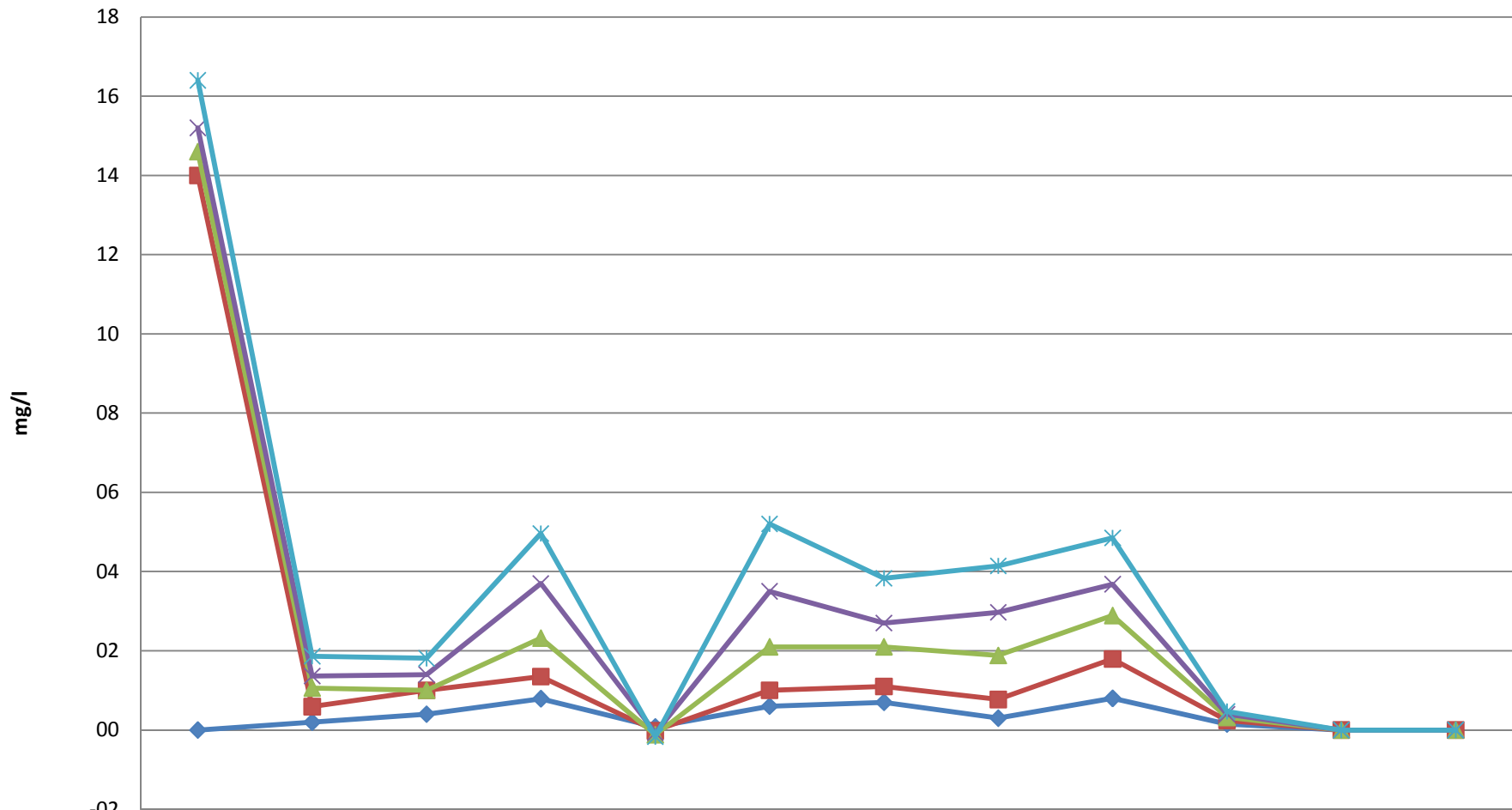
The water being discharged from the district meets the state standards for class 3 waters. Attached are the quarterly results for Total Nitrogen and Total Phosphorous from the 5 discharge points in graph form from February 2008 – May 2010.

T-PO4



	Feb-08	May-08	08/2008	Nov-08	Feb-09	May-09	Aug-09	Nov-09	Feb-10	May-10
Site 11	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
Site 14	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
Site 15	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
Site 22	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
Site 27	0.9	-0.05	-0.05	-0.5	-0.5	-0.5	-0.5	0.7	-0.05	-0.05

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	Feb-08	May-08	08/2008	Nov-08	Feb-09	May-09	Aug-09	Nov-09	Feb-10	May-10	Aug-10	Nov-10
Site 27	1.2	0.5	0.41	1.26	-0.1	1.7	1.13	1.17	1.17	0.07	0	
site 22	0.6	0.3	0.4	1.38	0.05	1.4	0.6	1.09	0.79	0.08	0	
Site 15	0.6	0.47	0	0.97	-0.1	1.1	1	1.11	1.1	0.08	0	
Site 14	14	0.39	0.6	0.56	-0.1	0.4	0.4	0.47	0.99	0.09	0	0
Site 11	0	0.2	0.4	0.79	0.08	0.6	0.7	0.3	0.8	0.15	0	0

