City of North Port

National Pollutant Discharge Elimination System (NPDES)
Municipal Separate Storm Sewer System (MS4)
Permit # FLS000004

Year 2 Annual Report

Report period Jan 1, 2009 to December 31, 2009

Prepared June, 2010

Old Corroded Water Control Structure #503 on Apollo Waterway

New Water Control Structure #503 on Apollo Waterway

Submitted by
Elizabeth Wong P.E.
Stormwater Manager
Planning Zoning and Engineering Department

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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: City of North Port		
B.	Permit Name: Sarasota County Municipal Separate Storm Sewer System		
C.	Permit Number: FLS000004		
D.	Annual Report Year: ☐ Year 1 ☒ Year 2 ☐ Year 3 ☐ Year 4 ☐ Year 5 ☐ Other, specify Year:		
E.	Reporting Time Period (month/year): January 1, 2009 through December 31, 2009		
F.	Name of the Responsible Authority: David J. Garofalo, Sr.		
	Title: Chair, North Port City Commission		
	Mailing Address: 4970 City Hall Boulevard		
	City: North Port	Zip Code: 34286	County: Sarasota
	Telephone Number: 941-428-7069	Fax Number: 941-429-7008	
	E-mail Address: dgarofalo @cityofnorthport.com		
G.	Name of the Designated Stormwater Management Program Contact (if different from Section I.F above): Elizabeth Wong, P.E		
	Title: Stormwater Manager		
	Department: Planning, Zoning and Engineering		
	Mailing Address: 4970 City Hall Boulevard		
	City: North Port	Zip Code: 34286	County: Sarasota County
	Telephone Number: 941-429-7090 (Office) 628-1475 (cell)	Fax Number: 941-429-7164	
	E-mail Address: ewong@cityofnorthport.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 (none added) (Does this number include non-major outfalls? ☐ Yes ☐ No ☒ Not Applicable)
B.	Number of outfalls REMOVED from the outfall inventory in the current reporting year (insert "0" if none): 0 (none removed) (Does this number include non-major outfalls? ☐ Yes ☐ No ☒ Not Applicable)
C.	Is the change in the total number of outfalls due to lands annexed or vacated? ☐ Yes ☐ No ☒ Not Applicable Change is due to the new annexed areas, new development and outfalls not previously reported.

SECTION III. MONITORING PROGRAM

A. Provide a brief statement as to the status of monitoring plan implementation:

The water quality monitoring plan was approved by Steven Michael Kelly (FDEP) in a letter dated May 6, 2009. The approved plan allows the use of the Hydrobiological (HB) monitoring data and sampling sites to satisfy the NPDES monitoring requirements. The HB data is collected by the City as a requirement of the SWFWMD consumptive use permit and has very similar parameters to the Sarasota County's monitoring plan. The sampling locations provide more specific water quality data for the surface water runoff from the City of North Port. These HB sampling sites and water quality monitoring will be continued and the data used in the future reporting years of this NPDES permit.

B. Provide a brief discussion of the monitoring results to date:

Appendix A includes the following:

- A location map of the HB sampling sites
- Three tables entitled
  - "Hydrobiological Data – Current Year Average of All Sites" for reporting period (January 1, 2009 to December 31, 2009)
  - "Hydrobiological Data – Previous Year Average of All Sites" for reporting period (April 18, 2007 to December 31, 2008)
  - "Hydrobiological Data – Comparison of Average Of All Sites Between Current And Previous Reporting Years.

Following is a discussion of the comparison of average data for the 10 sampling sites between the current reporting period and for the previous reporting period.

- Comparable data with for Nitrogen, Phosphorus, Suspended Solids, Turbidity and Dissolved Oxygen between the previous and current reporting periods.
- Chlorophyll-a data for the current reporting period is a slightly lower than the previous reporting period.
- The physical parameters of color, specific conductance, salinity, pH, Secchi depth do not appear significantly different between the previous and current reporting periods. This data is subject to tidal and flow conditions at the time of measurement.

Appendix B includes the following:

- Graphs are provided for all the data collected from the City HB monitoring program for the reporting period and all previous reporting periods. Separate graphs are prepared for each parameter.
- Site No. 6 is the location that represents most closely the water quality immediately downstream of the City of North Port. For Site No, 6, comparison graphs are also included for the following :
  - Nutrients - Nitrate, Nitrite, Ammonia-N, TKN, Orthophosphorus, and Total Phosphorus – This graph shows a correlation of the nitrogen data with the phosphorus data. Higher concentrations were seen in the wet season months near Sept 2009.
  - Turbidity, Total Suspended Solids, Color - The turbidity, total suspended and also with color are higher in the wet season. This is probably due to influence of more surface water flow causing turbidity, suspended solids and dissolution of organic color material to increase in the rainy season.
  - Dissolved Oxygen, and Temperature – As expected, the dissolved oxygen content is inversely proportional to temperature. The average dissolved oxygen content of the water at Site No. 6 is 5.32mg/L.

C. Attach a monitoring data summary, as required by the permit.

- Appendix A includes a tabulation of the HB sampling sites for the report year taken on a monthly basis. The data is graphed in Appendix B.

SECTION IV. FISCAL ANALYSIS

A. Total expenditures for the NPDES stormwater management program for the current reporting year: $7,839,281 (City's Fiscal Year 2008/2009 – October 1 2008 to October 2009 for Base and Enhanced Drainage and Mowing)

B. Total budget for the NPDES stormwater management program for the subsequent reporting year: $6,567,048 (City's Fiscal Year 2009/2010 – October 1 2009 to October 2010 for Base and Enhanced Drainage and Mowing)

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):

Attached	N/A	
☒ Appendix D & E	☐	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.
☒ Appendix A&B	☐	A monitoring data summary as directed in Section III.C above and in accordance with Rule 62-624.600(2)(c), F.A.C.
☐	☐	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.
☒ Appendix C	☐	Year 2 ONLY: Summary of current Local code review
☐	☐	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.
☐	☐	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 J. Garofalo, Sr.

Title: Chair, North Port City Commission

Signature: _____ Date: / /

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 the structural controls and roadway stormwater collection structures operated by the permittee. Update MS4 mapping, as needed, and provide the current known inventory in each Annual Report.	*DEP Note: The permittee needs to add any structural controls to the list below that are part of the permittee's MS4 currently or are planned for the future. The permittee may remove any structural controls listed that it does not have currently or will likely never have in the future. In addition, the permittee may choose its own unit of measurement for each control/structure. Unit options include: miles, linear feet, acres.*			
	Stormwater treatment ponds	224	Public Works Drive T:\N.P.D.S\Inspections 2009 and 3 ring Binder S:\Engineering\NPDES\NPDES Year 2, 1-1-09 to 12-31-09\Summaryof PW Inspections 2009.xls	PW Infrastructure Management	These are originally installed by General Development Corp.
		74	S:\Engineering\NPDES\Facilities Inspection\NPDES Overal Inspection Schedule Database.xls	PZE Stormwater Manager and Inspections Staff	These are other City owned and maintained ponds
	Stormwater pump stations	0	Not Applicable	Not Applicable	City has no stormwater pump stations
	Exfiltration trenches	21	S:\Engineering\NPDES\Facilities Inspection\NPDES Overal Inspection Schedule Database.xls	PZE Stormwater Manager and Inspections Staff	Side drains and Underdrains. See Appendix E Summary
	Channels/canals/canal banks (miles)	79.09	Public Works Drive T:\N.P.D.S\Inspections 2009 and 3 ring Binder S:\Engineering\NPDES\NPDES Year 2, 1-1-09 to 12-31-09\Summaryof PW Inspections 2009.xls	PW Infrastructure Management	These are originally installed by General Development Corp.
	Channel control structures	69	Public Works Drive T:\N.P.D.S\Inspections 2009 and 3 ring Binder S:\Engineering\NPDES\NPDES Year 2, 1-1-09 to 12-31-09\Summaryof PW Inspections 2009.xls	PW Infrastructure Management	These are originally installed by General Development Corp.
	Pollution control boxes (e.g., CDS units, baffle boxes, swirl boxes)	6	S:\Engineering\NPDES\Facilities Inspection\NPDES Overal Inspection Schedule Database.xls	PZE Stormwater Manager and Inspections Staff	These are grate inlet baskets (GIBs) on Sumter Phase 2. See Appendix E Summary
	Ditches/swales (miles)	132.42 miles	Public Works Drive T:\N.P.D.S\Inspections	PW	These are

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		Retention Ditches. 1498.29 miles of grass Swales	2009 and 3 ring Binder S:\Engineering\NPDES\NPDES Year 2, 1-1-09 to 12-31-09\Summaryof PW Inspections 2009.xls Files	Infrastructure Management	originally installed by General Development Corp.
	Inlets/catch basins/grates	365 Inlets 452 Catch Basins	Public Works Drive T:\N.P.D.S\Inspections 2009 and 3 ring Binder S:\Engineering\NPDES\NPDES Year 2, 1-1-09 to 12-31-09\Summaryof PW Inspections 2009.xls Files	PW Infrastructure Management	These are originally installed by General Development Corp.
		219	S:\Engineering\NPDES\Facilities Inspection\NPDES Overal Inspection Schedule Database.xls	PZE Stormwater Manager and Inspections Staff	These are other City owned and maintained catch basins/inlets. See Appendix E Summary
	Year 1 ONLY: Attach a map of all known major outfalls per Rule 62-624.600(2)(a)				No Major Outfalls installed in 2009
	Conduct inspections and maintenance of structural controls and roadway stormwater collection structures operated by the permittee. Report the number of inspection and maintenance activities conducted in each Annual Report.	*DEP Note: The permittee needs to match the list of MS4 inspection and maintenance activities to its MS4 inventory above. In addition, please provide an explanation in Column F for any "0" reported in Column C for the inspections of the MS4. The permittee may choose its own unit of measurement for each control/structure, but it must be the same unit as used in the inventory above.*			
	Stormwater treatment pond inspections	224	Public Works Drive T:\N.P.D.S\Inspections 2009 and 3 ring Binder S:\Engineering\NPDES\NPDES Year 2, 1-1-09 to 12-31-09\Summaryof PW Inspections 2009.xls	PW Infrastructure Management	These are originally installed by General Development Corp.
		74 + 16 = 90	S:\Engineering\NPDES\Facilities Inspection\NPDES Overal Inspection Schedule Database.xls	PZE Stormwater Manager and Inspections Staff	These are other City owned and maintained ponds. The additional 16 inspections are to follow up to check that maintenance is completed. See Appendix E

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					Summary
	Stormwater treatment pond maintenance	80	PW Monthly IFSTP	Public Works	These are originally installed by General Development Corp.
		16	S:\Engineering\NPDES\Facilities Inspection\NPDES Overal Inspection Schedule Database.xls	PZE Stormwater Manager and Inspections Staff	These are other City owned and maintained facilities. The City routinely mows all ponds and performs routine maintenance. These 16 ponds are additional maintenance performed as a result of PZE staff annual inspections See Appendix E Summary
	Stormwater pump station inspections	N/A	Not Applicable	Not Applicable	City has no stormwater pump stations
	Stormwater pump station maintenance	N/A	Not Applicable	Not Applicable	City has no stormwater pump stations
	Exfiltration trench inspections	21	S:\Engineering\NPDES\Facilities Inspection\NPDES Overal Inspection Schedule Database.xls	PZE Stormwater Manager and Inspections Staff	Side drains and Underdrains. See Appendix E Summary
	Exfiltration trench maintenance	0	S:\Engineering\NPDES\Facilities Inspection\NPDES Overal Inspection Schedule Database.xls	PZE Stormwater Manager and Inspections Staff	Side drains and Underdrains are functioning as designed.
	Channel/canal/ canal bank inspections (miles)	79.09	Public Works Drive T:\N.P.D.S\Inspections 2009 and 3 ring Binder S:\Engineering\NPDES\NPDES Year 2, 1-1-09 to 12-31-09\Summaryof PW Inspections 2009.xls	PW Infrastructure Management	These are originally installed by General Development

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					Corp.
	Channel/canal/ canal bank maintenance (miles)	71	PW Monthly IFSTP	Public Works	
	Channel control structure inspections	69	Public Works Drive T:\N.P.D.S\Inspections 2009 and 3 ring Binder S:\Engineering\NPDES\NPDES Year 2, 1-1-09 to 12-31-09\Summaryof PW Inspections 2009.xls	PW Infrastructure Management	All water control structures (WCS) are inspected. In addition, 31 of 69 structures are the gated WCS and these are inspected daily during the work week.
	Channel control structure maintenance	58	PW Daily IFSTP	Public Works	These 58 structures are routinely cleared of vegetation /debris and include 31 gated structures in which the gates are greased every 6 months. The remaining 11 structures are open weir structures and did not required maintenance in reporting year.
	Pollution control box inspections	6	S:\Engineering\NPDES\Facilities Inspection\NPDES Overal Inspection Schedule Database.xls	PZE Stormwater Manager and Inspections Staff	These are grate inlet baskets (GIBs) along Sumter Phase II. See Appendix E Summary
	Pollution control box maintenance	6	PW Files in Ops	Public Works	These are grate inlet baskets (GIBs) along Sumter Phase II.

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	Ditch/swale inspections (miles)	132.42 miles Retention Ditches 1498.29 miles of grass Swales	Public Works Drive T:\N.P.D.S\Inspections 2009 and 3 ring Binder S:\Engineering\NPDES\NPDES Year 2, 1-1-09 to 12-31-09\Summaryof PW Inspections 2009.xls Files	PW Infrastructure Management	These are originally installed by General Development Corp.
	Ditch/swale maintenance (miles)	110 miles of Retention Ditches	PW Monthly IFSTP	Public Works	PW mows all roadside swales that are fronting undeveloped parcels
	Inlet/catch basin/grate inspections	365 Inlets 452 Catch Basins	Public Works Files S:\NPDES Files	PW Infrastructure Management	These are originally installed by General Development Corp.
		219	S:\Engineering\NPDES\Facilities Inspection\NPDES Overal Inspection Schedule Database.xls	PZE Stormwater Manager and Inspections Staff	See Appendix E Summary
	Inlet/catch basin/grate maintenance	21	Public Works Files S:\NPDES Files	PW Infrastructure Management	These are originally installed by General Development Corp.
		31	S:\Engineering\NPDES\Facilities Inspection\NPDES Overal Inspection Schedule Database.xls	PZE Stormwater Manager and Inspections Staff	These are other City owned and maintained catch basins / inlets. See Appendix E Summary
Part III.A.2	Areas of New Development and Significant Redevelopment				
	Report the number of new development and significant redevelopment projects reviewed by the permittee for post-development stormwater considerations in each Annual Report.	*DEP Note: Please provide an explanation in Column F for any "0" reported in Column C.*			
	Number of new development and redevelopment projects reviewed	41	Naviline Database	Stormwater Mgr	See Appendix E
	In the Year 2 Annual Report, provide a summary of the current local code review activity by attaching a report that	*DEP Note: Please provide the title of the attached report in Column D and the name of the entity who finalized the report in Column E. If the report is not attached as required, please provide an*			

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	includes the following information: all applicable local code and regulation citations (both current and draft); a description of the techniques aimed at reducing the stormwater impact of new development and areas of significant redevelopment that are included within the applicable codes and regulations (both current and draft); a description of innovative stormwater planning techniques, including those described above, recommended for possible future incorporation into the codes and regulations (beyond what may be currently in draft). In the Year 4 Annual Report, provide a follow-up report that provides a summary of the activities performed in accordance with the local codes and regulations described in the report provided in Year 2 for the purpose of reducing stormwater impact from new development and areas of significant redevelopment, as well as the status of any initiatives described in the report to amend or newly develop local codes and regulations for the purpose of reducing stormwater impact from new development and areas of significant redevelopment.	*explanation for the omission in Column F.*			
	Year 2 ONLY: Attach the summary report of the inter-departmental review		Appendix C - Summary of Local Code Review Activity	Stormwater Manager	See attached Appendix C
	Year 4 ONLY: Attach the follow-up report of the inter-department review				
Part III.A.3	Roadways				
	Report on the litter collection activities, including the frequency of litter collection, the amount of area covered by the activities and an estimate of the quantity of litter collected, in each Annual Report.	*DEP Note: Please provide an explanation in Column F for any "0" reported in Column C. In addition, the permittee may choose its own units of measurement for the reporting items. Unit options for the amount of litter include: bags, cubic yards, pounds, tons. Unit options for the amount of area covered by the activity include: linear feet, yards, miles, acres.*			
	Litter Control Program: Frequency of litter collection	Daily	PW Files	PW Operations	
	Litter Control Program: Estimated amount of litter collected (pounds)	310 tons	PW Files	PW Operations	
	Litter Control Program: Amount of area maintained (miles)	822 miles	PW Files	PW Operations	
	Report on the "Adopt-A-Road" activities, including the total number of road miles cleaned and an estimate of the quantity of litter collected, in each Annual Report.	*DEP Note: Please provide an explanation in Column F for any "0" reported in Column C. In addition, the permittee may choose its own unit of measurement for the amount of litter collected. Unit options include: bags, cubic yards, pounds, tons.*			
	Keep Sarasota Beautiful: Total miles cleaned	52.5 miles	PW Files	City staff and Citizens	Events coordinate by Julie Bellia
	Keep Sarasota Beautiful: Estimated amount of litter collected (Tons)	9.25 tons	PW Files	City staff and Citizens	- Adopt a Street **6/27/09**

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					- Great American Cleanup **4/18/09** - International Coastal Cleanup **9/19/09**
	Report on the annual street sweeping activities, including the frequency of the sweeping, total miles swept and an estimate of the quantity of sweepings collected, in each Annual Report.	*DEP Note: Please provide an explanation in Column F for any "0" reported in Column C. Also, the permittee may choose its own unit of measurement for the amount of sweeping material collected. Unit options include: cubic yards, pounds, tons.*			
	Street Sweeping Program: Frequency of street sweeping	Bi-Annual	PW Files	PW Operations	
	Street Sweeping Program: Estimated amount of material collected (tons)	38 tons	PW Files	PW Operations	
	Street Sweeping Program: Total miles swept (per year)	42 miles	PW Files	PW Operations	
	Maintain documentation of the inspections of equipment yards and maintenance shops that demonstrates the stormwater concerns reviewed and the appropriate control measures and procedures implemented or needing to be implemented, and report on the status and findings of the program, including the number of applicable facilities and the number and frequency of the inspections conducted, in each Annual Report.	*DEP Note: If "0" is reported in Column C for the number of inspections conducted and the permittee has one or more applicable facilities, please provide an explanation in Column F for why no inspections were conducted.*			
	Applicable equipment yards and maintenance shops that support road maintenance activities	3	S:\Engineering\NPDES\NPDES 2009 Inspections\City Facility Inspection	PZE Inspectors & Stormwater Manager	1. PW Yard 2. Fleet Maintenance Yard 3. Utilities Yard See Appendix E Summary
	Number of site inspections for stormwater runoff concerns and applicable stormwater BMPs	6	S:\Engineering\NPDES\NPDES 2009 Inspections\City Facility Inspection S:\Engineering\NPDES\Facilities Inspection\NPDES Overal Inspection Schedule Database.xls	PZE Stormwater Manager and Inspections Staff	These are City owned and maintained facilities. Two inspections per facility, one initially and one to follow up to check that maintenance is

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					completed. See Appendix E Summary
Part III.A.4	Flood Control Projects				
	Maintain a list of capital improvement projects proposed by the Stormwater Management Master Plan or Basin Management Planning studies (or similar document). Include in the project list any retrofits of existing structural flood control devices to provide additional pollutant removal from stormwater, and report on the status of the projects, including a description of the stormwater quality improvements and/or protection measures for each project, in each Annual Report.	*DEP Note: The status of the flood control projects should be reported as of the last day of the applicable reporting period. Therefore, there should be no duplication for those reported as proposed, active and completed. In addition, please provide the title of the attached description of the projects in Column D and the name of the entity who finalized the description in Column E. If the description is not attached as required, please provide an explanation for the omission in Column F.*			
	Flood control projects proposed as of the last day of the reporting period	10	Flood Control Projects Summary (See Appendix D)	Stormwater Manager - Elizabeth Wong Infrastructure Manager – Marcello Ranalli	See Appendix D
	Flood control projects active as of the last day of the reporting period	6	Flood Control Projects Summary (See Appendix D)	Stormwater Manager - Elizabeth Wong	Appendix D Projects # 1, 2, 7, 8,9,10 are all active as of 12/31/09
	Flood control projects completed during reporting period	4	S:\NPDES files Infrastructure Manager Files	Stormwater Manager - Elizabeth Wong	Appendix D Projects # 3 through 6 were completed as of 12/31/09
	Attach a brief description of the stormwater quality improvements and/or protection measures for each project				See Appendix D
Part III.A.5	Municipal Waste Treatment, Storage, and Disposal Facilities Not Covered by an NPDES Stormwater Permit				

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	Maintain documentation of the inspections of applicable municipal waste treatment, storage and disposal facilities. The documentation should demonstrate the stormwater concerns reviewed and the appropriate pollution control measures and procedures implemented or needing to be implemented, and report on the status and findings of the program, including the number of applicable facilities and the number and frequency of the inspections conducted, in each Annual Report.	*DEP Note: If "0" is reported in Column C for the number of inspections conducted and the permittee has one or more applicable facilities, please provide an explanation in Column F for why no inspections were conducted. An applicable facility under Part III.A.5 includes, but is not limited to, those facilities/yards where street sweeping material and/or yard waste are temporary stockpiled, and where solid waste collection trucks are parked and/or maintained.* *In addition, if the same facility is applicable under both Part III.A.3 and Part III.A.5 of the permit, the same site inspection can count towards both inspection requirements as long as it covers the applicable waste area(s).*		
	Applicable municipal waste treatment, storage and disposal facilities	3	S:\Engineering\NPDES\Facilities Inspection\NPDES Overal Inspection Schedule Database.xls	PZE Stormwater Manager and Inspections Staff	1. PW Yard 2. Fleet Maintenance Yard 3. Utilities Yard These are City owned and maintained facilities. See Appendix E Summary
	Number of site inspections for stormwater runoff concerns and applicable stormwater BMPs	6	S:\Engineering\NPDES\Facilities Inspection\NPDES Overal Inspection Schedule Database.xls	PZE Stormwater Manager and Inspections Staff	These are City owned and maintained facilities. Two inspections per facility, one initially and one to follow up to check that maintenance is completed. See Appendix E Summary
Part III.A.6	Pesticides, Herbicides, and Fertilizer Application				
	Report the number of permittee personnel and contractors certified/licensed to apply pesticides or herbicides on permittee owned property in each Annual Report.	*DEP Note: Please provide an explanation in Column F for any "0" reported in Column C.*			
	Florida Department of Agriculture and Consumer Services (DACS) certified applicators (personnel)	3	Public Works Files	Public Works	
	DACS certified/licensed applicators (contractors)	3	Public Works Files	Public Works	
	Continue to implement a public education program to	*DEP Note: The permittee should "customize" the list of public outreach activities by removing or*			

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	encourage citizens to reduce their use of pesticides, herbicides, and fertilizers. Report on the public education activities that are performed or sponsored by the permittee within the permittee's jurisdiction, including the type and number of outreach activities conducted and the type and amount of materials distributed, in each Annual Report.	*adding to the list below as appropriate to their particular public outreach program. The permittee may add more specifics to the reporting items, such as the name of the brochure or newsletter distributed.*			
	Brochures/Flyers/Fact sheets distributed	1479	S:\Engineering\NPDES\Brochures\Brochues Dissemination Tracking and Public Outreach.xls	PZE Staff	See Appendix E
	Neighborhood presentations: Number conducted	3	S:\Engineering\NPDES\Brochures\Brochues Dissemination Tracking and Public Outreach.xls	Stormwater Manager and Grants Writer and Planner	See Appendix E
	Neighborhood presentations: Number of participants	80	S:\Engineering\NPDES\Brochures\Brochues Dissemination Tracking and Public Outreach.xls	Public Attended	See Appendix E
	Newspapers & newsletters: Number of articles/notices published	8	S:\Engineering\NPDES\Brochures\Brochues Dissemination Tracking and Public Outreach.xls	Stormwater Manager & Grants Writer	See Appendix E
	Newsletters: Number of newsletters distributed	33,825	S:\Engineering\NPDES\Brochures\Brochues Dissemination Tracking and Public Outreach.xls	City HR dept sends E-mail, Websites and North Port Magazine	See Appendix E
	Public displays (e.g., kiosks, storyboards, posters, etc.)	15	S:\Engineering\NPDES\Brochures\Brochues Dissemination Tracking and Public Outreach.xls	PZE Staff	See Appendix E
	Radio or television Public Service Announcements (PSAs)	0			None performed in reporting year
	School presentations: Number conducted	1	S:\Engineering\NPDES\Brochures\Brochues Dissemination Tracking and Public Outreach.xls	PZE Staff	Woodland Elementary School. See Appendix E
	School presentations: Number of participants	200	S:\Engineering\NPDES\Brochures\Brochues Dissemination Tracking and Public Outreach.xls	PZE Staff	See Appendix E
	Seminars/Workshops: Number conducted	3	S:\Engineering\NPDES\Brochures\Brochues Dissemination Tracking and Public Outreach.xls	Stormwater Manager	See Appendix E
	Seminars/Workshops: Number of participants	170	S:\Engineering\NPDES\Brochures\Brochues Dissemination Tracking and Public Outreach.xls	Public attended	See Appendix E
	Special events: Number conducted	10	S:\Engineering\NPDES\Brochures\Brochues Dissemination Tracking and Public	PZE Staff	See Appendix E

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE					
A. Permit Citation/SWMP Element	B. Permit Requirement/Quantifiable SWMP Activity	C. Number of Activities Performed	D. Documentation/ Record	E. Entity Performing the Activity	F. Comments
			Outreach.xls		
	Special events: Number of participants	16942	S:\Engineering\NPDES\Brochures\Brochues Dissemination Tracking and Public Outreach.xls	Public attended	See Appendix E
	Web Site: Number of stormwater-related pages	4	See City Website	Stormwater Mgr	1. Planning Zoning Engineering main page. 2. Stormwater Management 3. FEMA Floodmap Updates 4. Fertilizer Ordinance Information
	Web Site: Number of visitors to the stormwater-related pages	9278	E-mail dated 5/19/10 from I & T specialist George Goodfellow in NPDES backup folder	I & T specialist George Goodfellow	
	Continue to conduct annual seminars, training sessions, and/or on-the-job supervision for municipal applicators to emphasize the stormwater implications of pesticide and herbicide application. Report on the training activities, including the number of municipal applicators trained (both in-house and outside training), in each Annual Report.	*DEP Note: If "0" is reported in Column C for any of these reporting items, please include in Column F an explanation for why training was not provided to/obtained by personnel during the applicable reporting year and the most recent year that training was previously provided/obtained. In addition, please note that "non-certification" training refers to any classes, on-the-job training, or other informal training that does not count toward an applicator's DACS certification.*			
	Non-certification seminars/training sessions provided	5	Public Works Files	Public Works	
	Personnel trained(in-house and outside non-certification training)	18	Public Works Files	Public Works	
	Continue implementation of standardized procedures to minimize the municipal use of pesticides, herbicides, and fertilizers and to properly apply, store, and mix these products.	3 additional staff were trained in 2009	S:\Engineering\NPDES\NPDES Year 2, 1-1-09 to 12-31-09\NorthPortCert per e-mail from Lori Ann Javis 5-24-10.xls	UF IFAS Training on BMPS Florida Green Industries	Total of 24 City Staff has received Fertilizer BMP training as of 2009. See Appendix E.
	Report any changes to the procedures to minimize the permittee's use of pesticides, herbicides, and fertilizers, as needed				See City's Fertilizer Ordinance 2007-45 effective 12/14/07 on City Website
Part III.A.7.a	Illicit Discharges and Improper Disposal — Inspections, Ordinances, and Enforcement Measures				
	Where applicable, strengthen the legal authority to control	See City illicit	City Website	Stormwater	

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**
	illicit discharges, illicit connections, illegal dumping and spills into the MS4 and to require compliance with conditions in ordinances, permits, contracts, and orders.	Discharge Ordinance 05-47		Manager	
	Report any amendments to the applicable legal authority , as needed				No ammendments
Part III.A.7.c	Illicit Discharges and Improper Disposal — Investigation of Suspected Illicit Discharges and/or Improper Disposal				
	Continue to implement the procedures for proactive inspections to identify and eliminate the source(s) of illicit discharges, illicit connections or dumping to the MS4. Report on the proactive inspection program, including the number of inspections conducted, the number of illicit activities found, and the number and type of enforcement actions taken, in each Annual Report.	*DEP Note: Proactive inspections may include, for example, suspect areas (e.g., industrial areas), commercial businesses (e.g., restaurants, car washes, storage warehouses being used for commercial business, service stations, laundries/ dry cleaners, auto body shops, carpet cleaners) or temporary activities (e.g., special events/fairs/circus) that would not otherwise be inspected during routine inspections and maintenance of the MS4, in association with high risk industrial facilities or construction sites, or in response to citizen or staff reports. In addition, the permittee can re-word the "NOVs issued" reporting item to better reflect its particular initial enforcement activity.*			
	Proactive inspections for suspected illicit discharges/ connections/ dumping	20	S:\Engineering\NPDES\Facilities Inspection\ NPDES Overal Inspection Schedule Database.xls	PZE Inspectors & Stormwater Manager	See Appendix E Summary
	Illicit discharges/ connections/ dumping found during a proactive inspection	2	S:\Engineering\NPDES\NPDES 2009 Inspections\2009 Commercial Site Inspections	PZE Inspectors & Stormwater Manager	Don's Recylcing and Toledo Blade Self Storage
	Notices of Violation (NOVs) issued for illicit discharges/ connections/ dumping found during a proactive inspection	0		Building Code Compliance	None issued
	Fines issued for illicit discharges/ connections/ dumping found during a proactive inspection	0		Building Code Compliance	None issued
	Report on the investigation program as it relates to reacting or responding to reports of suspected illicit discharges, including the number of reports received, the number of investigations conducted, the number of illicit activities found, and the number and type of enforcement actions taken, in each Annual Report.	*DEP Note: The permittee can re-word the "NOVs issued" reporting item to better reflect its particular initial enforcement activity.*			
	Number of reports of suspected illicit connections/ discharges/ dumping received	4	S:\Engineering\NPDES\NPDES Year 2, 1-1-09 to 12-31-09\NPDES Training and Proactive Illicit Discharge Inspection.xls	PZE Inspectors & Stormwater Manager	See Appendix E Summary
	Investigations of reports of suspected illicit discharges/ connections/ dumping	4	S:\Engineering\NPDES\NPDES Year 2, 1-1-09 to 12-31-09\NPDES Training and Proactive Illicit Discharge Inspection.xls	PZE Inspectors & Stormwater Manager	See Appendix E Summary
	Illicit discharges/ connections/ dumping found during a reactive investigation	4	S:\Engineering\NPDES\NPDES Year 2, 1-1-09 to 12-31-09\NPDES Training and Proactive Illicit Discharge Inspection.xls	PZE Inspectors & Stormwater Manager	See Appendix E Summary
	NOVs issued for illicit discharges/ connections/ dumping found during a reactive investigation	0		Building Code Compliance	Issues were resolved
	Fines issued for illicit discharges/ connections/ dumping found during a reactive investigation	0		Building Code Compliance	Issues were resolved

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
	Report on the training activities, including the number of permittee personnel trained (both in-house and outside training), and the number of contractors trained by the permittee, in each Annual Report.	*DEP Note: If "0" is reported in Column C for either of these reporting items, please include an explanation in Column F for why training was not provided to/obtained by personnel/contractors during the applicable reporting year and the most recent year that training was previously provided/obtained.*			
	Illicit Discharge Training: Personnel trained	13	S:\Engineering\NPDES\NPDES Year 2, 1-1-09 to 12-31-09\NPDES Training and Proactive Illicit Discharge Inspection.xls	1. USEPA Stormwater Program Webcast Series IDDE 301 2. UF IFAS Training on BMPS Florida Green Industries 3. Stormwater Manager	See Appendix E Summary
	Illicit Discharge Training: Contractors trained	0			Contractors not trained to perform IDDE inspection. This activity is performed solely by PZE Inspectors & Stormwater Manager
Part III.A.7.d	Illicit Discharges and Improper Disposal — Spill Prevention and Response				
	Report on the spill prevention and response activities, including the number of spills addressed that had the potential to enter the MS4, in each Annual Report.				
	Hazardous and non-hazardous material spills responded to	3	Fire and Rescue Report in NPDES Backup Binder	North Port Fire Dept and Sarasota County	No spills reached the City's stormwater system
	Report on the training activities completed, including the number of personnel trained (both in-house and outside training) and the number of contractors trained by the permittee, in each Annual Report.	*DEP Note: If "0" is reported in Column C for either of these reporting items, please include an explanation in Column F for why training was not provided to/obtained by personnel/contractors during the applicable reporting year and the most recent year that training was previously provided/obtained.*			
	Spill Prevention and Response Training: Personnel trained	84	Fire Rescue and personnel records	North Port Fire Dept, Sarasota County and Venice	81 Firefighters, 2 chiefs and Training/Safety Captain trained

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
	Spill Prevention and Response Training: Contractors trained	0			Contractors not used. This activity is performed by North Port Fire Dept, Sarasota County and Venice
Part III.A.7.e	Illicit Discharges and Improper Disposal — Public Reporting				
	Continue to promote, publicize, and facilitate public reporting of the presence of illicit discharges and improper disposal of materials into the MS4. Report on the public outreach activities that are performed or sponsored by the permittee within the permittee's jurisdiction, including the number of outreach activities conducted and the amount of materials distributed, in each Annual Report.	*DEP Note: The permittee should "customize" the list of public outreach activities by removing or adding to the list below as appropriate to their particular public outreach program. The permittee may add more specifics to the reporting items, such as the name of the brochure or newsletter distributed.*			
	Brochures/Flyers/Fact sheets distributed	1000	Same Brochure as in 2008 NPDES Backup Binder	Solid Waste Mgr	See Appendix E summary
	Neighborhood presentations: Number conducted	1	Solid Waste Manager's files	Solid Waste Mgr	See Appendix E summary
	Neighborhood presentations: Number of participants	25	Solid Waste Manager's files	Solid Waste Mgr	See Appendix E summary
	Newspapers & newsletters: Number of articles/notices published	0		Solid Waste Mgr	None were published in reporting year
	Newsletters: Number of newsletters distributed	0		Solid Waste Mgr	None were distributed in reporting year
	Public displays (e.g., kiosks, storyboards, posters, etc.)	2 Solid Waste Brochures	Kiosks at City hall and Library	Solid Waste Mgr	
	Radio or television Public Service Announcements (PSAs)	0			None performed in reporting year
	School presentations: Number conducted	4	Solid Waste Manager's files	Solid Waste Mgr	See Appendix E summary
	School presentations: Number of participants	1420	Solid Waste Manager's files	Solid Waste Mgr	See Appendix E summary
	Seminars/Workshops: Number conducted	4	Solid Waste Manager's files	Solid Waste Mgr	See Appendix E summary
	Seminars/Workshops: Number of participants	641	Solid Waste Manager's files	Solid Waste Mgr	See Appendix E summary
	Special events: Number conducted	8	Solid Waste Manager's files	Solid Waste Mgr	See Appendix E summary
	Special events: Number of participants	14332	Solid Waste Manager's files	Solid Waste Mgr	See Appendix E

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE					
A. Permit Citation/SWMP Element	B. Permit Requirement/Quantifiable SWMP Activity	C. Number of Activities Performed	D. Documentation/ Record	E. Entity Performing the Activity	F. Comments
					summary
	Web Site: Number of stormwater-related pages	4	See City Website	Stormwater Mgr	1. Planning Zoning Engineering main page. 2. Stormwater Management 3. FEMA Floodmap Updates 4. Fertilizer Ordinance Information
	Web Site: Number of visitors to the stormwater-related pages	9278	E-mail dated 5/19/10 from I & T specialist George Goodfellow in NPDES backup folder	I & T specialist George Goodfellow	
Part III.A.7.f	Illicit Discharges and Improper Disposal — Oils, Toxics, and Household Hazardous Waste Control				
	Continue implementation of the outreach program to instruct the public on responsible environmental management and the proper disposal of used motor vehicle fluids, leftover hazardous household products, and lead acid batteries. Report on the public outreach activities that are performed or sponsored by the permittee within the permittee's jurisdiction, including the number of outreach activities conducted, the amount of outreach materials distributed and the amount of waste collected/recycled/properly disposed, in each Annual Report.	*DEP Note: The permittee should "customize" the list of public outreach activities by removing or adding to the list below as appropriate to their particular public outreach program. The permittee may add more specifics to the reporting items, such as the name of the brochure or newsletter distributed.*			
	Brochures/Flyers/Fact sheets distributed	1000	Brochure in 2008 NPDES Backup Binder	Solid Waste Mgr	
	Curbside Used Oil & Filter Collection Program events	Picked up weekly at curbside	Solid Waste Manager's files	Solid Waste Mgr	
	Household Hazardous Waste (HHW) Collection Day events	1	Solid Waste Manager's files	Solid Waste Mgr	
	HHW Collection Day/Curbside Program/Retail Battery Program/Project Green Sweep: Amount of waste collected/recycled (tons)	61 tons recycled	Solid Waste Manager's files	Solid Waste Mgr	See Appendix E summary
	Neighborhood presentations	1	Solid Waste Manager's files	Solid Waste Mgr	See Appendix E summary
	Newspaper articles published	0		Solid Waste Mgr	None were published in reporting year
	Project Green Sweep events	0			Not conducted

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
	Public displays (e.g., kiosks, storyboards, posters, etc.)	2 Solid Waste Brochures	Kiosks at City hall and Library	Solid Waste Mgr	
	Radio or television Public Service Announcements (PSAs)	0			None performed in reporting year
	Retail Battery Collection Program events	Picked up weekly at curbside		Solid Waste Mgr	
	School presentations: Number conducted	4	Solid Waste Manager's files	Solid Waste Mgr	See Appendix E Summary
	School presentations: Number of participants	1420	Solid Waste Manager's files	Solid Waste Mgr	See Appendix E Summary
	Seminars/Workshops: Number conducted	4	Solid Waste Manager's files	Solid Waste Mgr	See Appendix E Summary
	Seminars/Workshops: Number of participants	641	Solid Waste Manager's files	Solid Waste Mgr	See Appendix E Summary
	Special events: Number conducted	8	Solid Waste Manager's files	Solid Waste Mgr	See Appendix E Summary
	Special events: Number of participants	14332	Solid Waste Manager's files	Solid Waste Mgr	See Appendix E Summary
	Storm sewer inlets newly marked/replaced	0			None performed in reporting year
	Web Site: Number of stormwater-related pages	4	See City Website	Stormwater Mgr	1. Planning Zoning Engineering main page. 2. Stormwater Management 3. FEMA Floodmap Updates 4. Fertilizer Ordinance Information
	Web Site: Number of visitors to the stormwater-related pages	9278	E-mail dated 5/19/10 from I & T specialist George Goodfellow in NPDES backup folder	I & T specialist George Goodfellow	
Part III.A.7.g	Illicit Discharges and Improper Disposal — Limitation of Sanitary Sewer Seepage				
	Report on the activities to reduce or eliminate Sanitary Sewer Overflows (SSOs) and seepage, such as the number of incidents of each discovered and resolved, in each Annual Report.	*DEP Note: The permittee should contact the appropriate authorities for accurate reporting information, such as the sanitary sewer system operator and the local health department that is responsible for permitting/overseeing septic tank systems.*			
	SSO incidents discovered and resolved	6	Sewer spill report to FDEP SCPCD	Utilities	
	Inflow/Infiltration incidents discovered and resolved	0		Utilities	None performed

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**
					in reporting year
Part III.A.8.a	Industrial and High-Risk Runoff — Identification of Priorities and Procedures for Inspections				
	Report on the inventory, including the total number of high risk facilities and the number of facilities newly added each year, in each Annual Report.	*DEP Note: For the purposes of this permit, high risk facilities include operating municipal landfills, hazardous waste treatment, storage, disposal and recovery facilities, facilities that are subject to EPCRA Title III, Section 313, and any other industrial or commercial discharge that the permittee determines is contributing a substantial pollutant loading to the permittee's MS4.*			
	Total number of high risk facilities	0	EPA Website	Stormwater Mgr	The only facility in the EPA Toxic Release Inventory is Marble Works. However, with the downturn in economy, this facility has closed down.
	New high risk facilities added to the inventory during the current reporting period	0			None added that the Stormwater Manager is aware of.
	Report on the inspection program, including the number of inspections conducted and the number of enforcement actions taken, in each Annual Report.	*DEP Note: If "0" is reported in Column C for the number of inspections conducted and the permittee has one or more high risk facilities, please provide an explanation in Column F for why no inspections were conducted. In addition, the permittee can re-word the "NOVs issued" reporting item to better reflect its particular initial enforcement activity.*			
	High risk facility site inspections for stormwater runoff concerns	0		Stormwater Mgr	No high risk facilities
	NOVs issued for violations discovered during a high risk site inspection	0		Stormwater Mgr	No high risk facilities
	Fines issued for violations discovered during a high risk site inspection	0		Stormwater Mgr	No high risk facilities
Part III.A.8.b	Industrial and High-Risk Runoff — Monitoring for High Risk Industries				
	Monitoring may be required on an as-needed basis in the event that inspections of high-risk facilities disclose suspected illicit discharges to the MS4. New high-risk industrial facilities as defined in 40 CFR 122.26(d)(2)(iv)(C) must be evaluated to determine if the new discharge is contributing a substantial pollutant load to the MS4. The evaluation may include site-specific monitoring.				
	High risk facilities monitored	0		Stormwater Mgr	No high risk facilities
Part III.A.9.a	Construction Site Runoff — Site Planning and Non-Structural and Structural Best Management Practices				
	Report the number of pre-construction site plans reviewed in each Annual Report.	*DEP Note: Please provide an explanation in Column F for any "0" reported in Column C.*			

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE					
A. Permit Citation/SWMP Element	B. Permit Requirement/Quantifiable SWMP Activity	C. Number of Activities Performed	D. Documentation/ Record	E. Entity Performing the Activity	F. Comments
	Construction site plan/permit application reviews for proper erosion and sedimentation BMPs (private sites)	21	Naviline Database and NPDES Backup Binder	Stormwater Mgr	See Appendix E Summary
	Construction site plan/permit application reviews for proper erosion and sedimentation BMPs (permittee sites)	12	Naviline Database and NPDES Backup Binder	Stormwater Mgr	See Appendix E Summary
	Report the number of building permit applicants notified to obtain all required stormwater permits in each Annual Report.	*DEP Note: Please provide an explanation in Column F for any "0" reported in Column C. If the land disturbance and building permits are administered by different departments (and thereby the notifications are performed by two departments), the permittee may separate the reporting of these two activities into separate lines.*			
	Land disturbance and building permit applicants notified of ERP and NPDES stormwater permit requirements	14	Naviline Database and NPDES Backup Binder	Stormwater Mgr and Chief Inspector	See Appendix E Summary
	Report the number of permittee construction sites for which a Notice of Intent (NOI) was submitted in each Annual Report.	*DEP Note: Please provide an explanation in Column F for any "0" reported in Column C.*			
	Number of permittee construction sites requiring an NOI	13	PZE Inspector Files	PZE Inspectors	This NOI requirement is always requested at the preconstruction meeting held on every new project.
Part III.A.9.b	Construction Site Runoff — Inspection and Enforcement				
	Report on the inspection program, including the number of construction site inspections conducted and the number and type of enforcement actions taken, in each Annual Report.	*DEP Note: If "0" is reported in Column C for the number of inspections conducted, please provide an explanation in Column F of why no inspections were conducted. The permittee can re-word the "NOVs/written warnings/citations issued" reporting item to better reflect its particular initial enforcement activity.*			
	Construction site inspections for proper erosion and sedimentation BMPs (private sites)	67	PZE Inspector Files	PZE Inspectors	
	Construction site inspections for proper erosion and sedimentation BMPs (permittee sites)	28	PZE Inspector Files	PZE Inspectors	
	NOVs/ written warnings/citations issued	0	HTE System	Building Dept - Code Compliance	None issued
	Stop Work Orders issued	0	HTE System	Building Dept - Code Compliance	None issued
	Fines issued	$0	HTE System	Building Dept - Code Compliance	None issued
Part III.A.9.c	Construction Site Runoff — Site Operator Training				
	Report on the training activities, including the number of inspectors, site plan reviewers and site operators trained	*DEP Note: If "0" is reported in Column C for any of these reporting items, please include in Column F an explanation of why training was not provided to/obtained by the permittee's staff and private*			

SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE					
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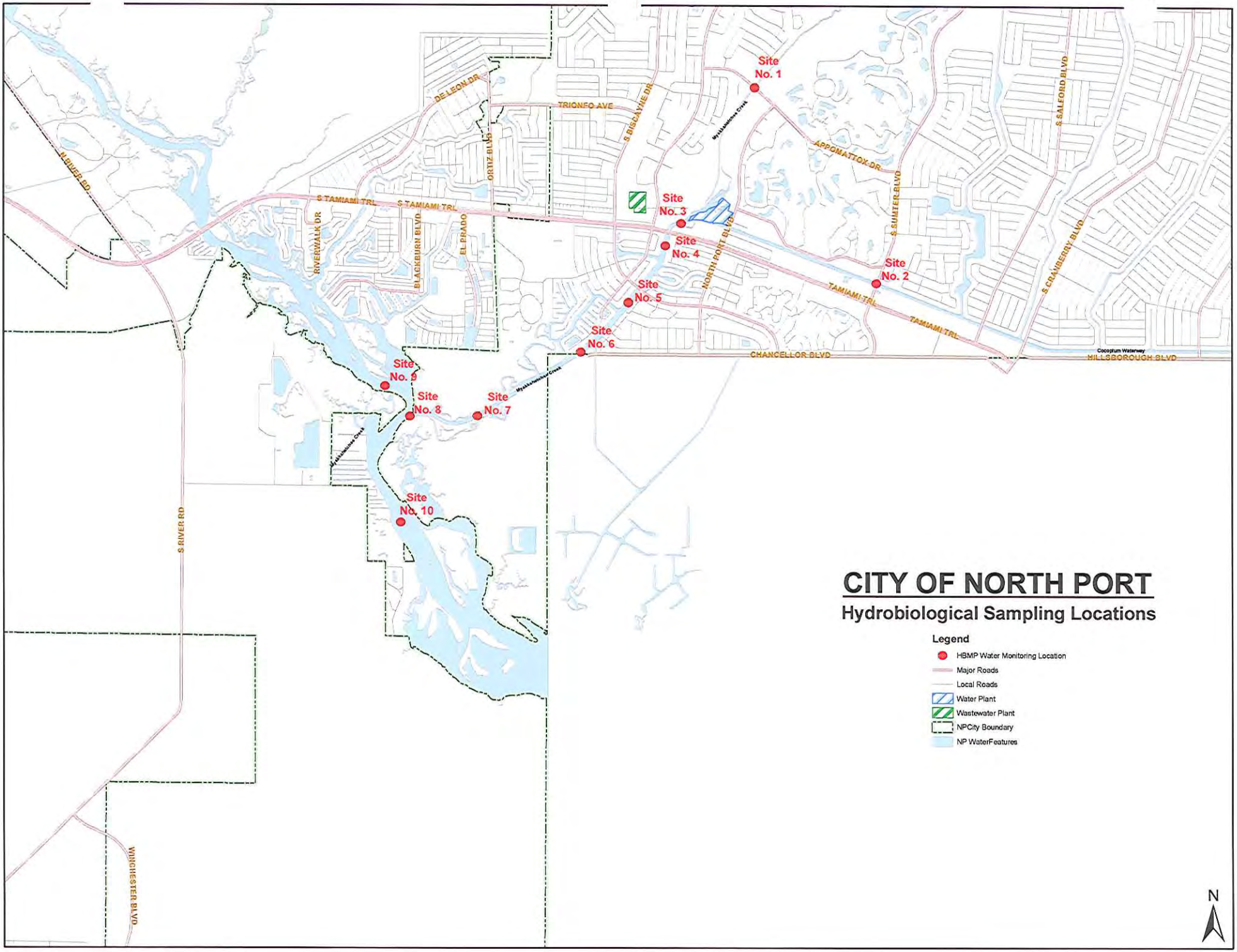
	(both in-house and outside training), and the number of private persons trained by the permittee, in each Annual Report.	*persons during the applicable reporting year and the most recent year that training was previously provided/obtained. In addition, the permittee should report only the staff and private persons trained during the applicable reporting year, and then note in Column F if/when any other staff were previously trained/certified.*			
	Permittee construction site inspectors trained/certified	14	On site training 5/19/09, 8/14/09 and 11/10/09 By Elizabeth Wong and NPDES backup binder	Stormwater Manager Elizabeth Wong	See Appendix E Summary
	Permittee construction site plan reviewers trained/certified	0			PZE Inspectors already trained in previous years
	Permittee construction site operators trained/certified	0			The City does not train Permittee construction site operators.
	Private persons trained	0			The City does not train Private persons.

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.**
		No Changes proposed.
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)**
		No Changes proposed.

APPENDIX A

WATER QUALITY DATA


Site No. 1
Site No. 2
Site No. 3
Site No. 4
Site No. 5
Site No. 6
Site No. 7
Site No. 8
Site No. 9
Site No. 10
DE LEON DR
TRIONFO AVE
S BISCAYNE DR
APPOMATTOX DR
S SALFORD BLVD
S TAMIAMI TRL
RIVERWALK DR
BLACKBURN BLVD
EL PRADO
ORTIZ BLVD
NORTH PORT BLVD
S SUMTER BLVD
S CRANBERRY BLVD
CHANCELLOR BLVD
Cocoplum Waterway
HILLSBOROUGH BLVD
S RIVER RD
WINCHESTER BLVD
CITY OF NORTH PORT
Hydrobiological Sampling Locations
Legend
HBMP Water Monitoring Location
Major Roads
Local Roads
Water Plant
Wastewater Plant
NPCity Boundary
NP WaterFeatures
N

Hydrobiological Data - Current Year Avg of All Sites
Reporting Period (Jan 2009 to December 2009)

Date	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6	Site 7	Site 8	Site 9	Site 10	Arith. Average of All Sites
Nitrate, Nitrite as N (mg/L)	0.064	0.008		0.021		0.018	0.019				**0.026**
Ammonia as N (mg/L)	0.052	0.032		0.046		0.034	0.020				**0.037**
Total Kjeldahl Nitrogen as N (mg/L)	0.93	0.87		0.99		1.01	0.97				**0.95**
Ortho Phosphorus as P (mg/L)	0.19	0.05		0.14		0.15	0.16				**0.14**
Total Phosphorus as P (mg/L)	0.24	0.09		0.22		0.23	0.24				**0.20**
Total Suspended Solids (mg/L)	2	3		6		6	6				**5**
Turbidity (NTU)	3.2	2.3		4.2		3.2	3.3				**3.2**
Color Apparent (PCU)	125	72		106		115	123				**108**
Color pH SU	7.45	7.83		7.64		7.70	7.69				**7.66**
Chlorophyll a - Pheo Corrected (ug/L)	3.96	13.07		14.99		15.88	12.45				**12.07**
Specific Conductance (mmhos)/cm	0.9	1.0		12.7		14.6	15.5				**8.9**
Salinity - Lab (PSU)	0.4	0.5		7.6		7.5	9.4				**5.1**
Overall Depth (meters)			1.5	1.2	1.8	2.6	3.1	4.2	3.2	1.9	**2.5**
Depth of Measurement (meters)			1	1	1	1	1	1	1	1	**1**
Field Salinity (PSU)			10.3	10.4	10.7	10.4	11.0	11.7	11.2	12.7	**11.0**
Field Specific Conductance (mmhos)/cm			16.82	16.97	17.45	16.99	17.90	19.03	18.25	20.63	**18.01**
Field Temperature (^{0}C)			26.3	26.2	25.8	25.5	25.4	25.3	25.4	25.3	**25.7**
Field pH (SU)			7.3	7.3	7.3	7.3	7.4	7.3	7.3	7.3	**7.3**
Field Dissolved Oxygen (mg/L)			4.1	4.1	4.7	5.2	5.3	5.2	5.3	5.3	**4.9**
Percent Saturation of D.O. (%)			53	53	61	67	69	68	68	70	**64**
Secchi Depth (meters)			1.27	1.06	1.12	1.15	1.16	1.05	1.05	1.05	**1.11**

Hydrobiological Data - Previous Year Avg of All Sites
Reporting Period (April 2007 to December 2008)

Date	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6	Site 7	Site 8	Site 9	Site 10	Average of All Sites
Nitrate, Nitrite as N (mg/L)	0.074	0.007		0.033		0.025	0.018				**0.031**
Ammonia as N (mg/L)	0.048	0.021		0.032		0.021	0.017				**0.028**
Total Kjeldahl Nitrogen as N (mg/L)	0.91	0.83		1.01		1.00	1.01				**0.95**
Ortho Phosphorus as P (mg/L)	0.22	0.04		0.18		0.18	0.18				**0.16**
Total Phosphorus as P (mg/L)	0.26	0.08		0.25		0.26	0.27				**0.22**
Total Suspended Solids (mg/L)	3	4		5		5	6				**5**
Turbidity (NTU)	3.6	3.1		4.1		3.8	3.7				**3.7**
Color Apparent (PCU)	111	53		100		104	105				**95**
Color pH SU	7.44	7.92		7.71		7.79	7.78				**7.73**
Chlorophyll a - Pheo Corrected (ug/L)	4.81	13.34		13.66		15.55	15.77				**12.63**
Specific Conductance (mmhos)/cm	0.8	1.0		9.3		12.6	14.6				**7.7**
Salinity - Lab (PSU)	0.3	0.4		5.4		7.4	8.7				**4.5**
Overall Depth (meters)			1.6	1.4	1.8	2.6	3.1	5.0	3.2	2.0	**2.6**
Depth of Measurement (meters)			1	1	1	1	1	1	1	1	**1**
Field Salinity (PSU)			9.8	10.1	10.4	10.2	10.9	11.7	11.4	13.1	**11.0**
Field Specific Conductance (mmhos)/cm			16.19	16.63	17.26	16.87	18.07	19.26	18.80	21.37	**18.06**
Field Temperature (^{0}C)			26.2	26.1	26.0	25.6	25.5	25.3	25.4	25.3	**25.7**
Field pH (SU)			7.2	7.2	7.3	7.4	7.4	7.3	7.3	7.4	**7.3**
Field Dissolved Oxygen (mg/L)			4.1	3.9	4.9	5.3	5.4	5.3	5.3	5.4	**5.0**
Percent Saturation of D.O. (%)			53	50	64	69	69	69	69	71	**64**
Secchi Depth (meters)			0.92	0.88	0.96	0.93	0.95	0.90	0.93	0.98	**0.93**

Hydrobiological Data - Comparison of Average of All Sites Between Current and Previous Reporting Years

Date	Previous Year Arith. Average (4/18/07 to 12/10/08)	Current Year Arith Average (1/1/09 to 12/31/09)	Difference
Nitrate, Nitrite as N (mg/L)	0.031	0.026	-0.006
Ammonia as N (mg/L)	0.028	0.037	0.009
Total Kjeldahl Nitrogen as N (mg/L)	0.95	0.95	0.001
Ortho Phosphorus as P (mg/L)	0.16	0.14	-0.021
Total Phosphorus as P (mg/L)	0.22	0.20	-0.019
Total Suspended Solids (mg/L)	5	5	-0.050
Turbidity (NTU)	3.7	3.2	-0.445
Color Apparent (PCU)	95	108	14
Color pH SU	7.73	7.66	-0.07
Chlorophyll a - Pheo Corrected (ug/L)	12.63	12.07	-0.56
Specific Conductance (mmhos)/cm	7.7	8.9	1.3
Salinity - Lab (PSU)	4.5	5.1	0.6
Overall Depth (meters)	2.6	2.5	-0.1
Depth of Measurement (meters)	1	1	0.0
Field Salinity (PSU)	10.95	11.05	0.09
Field Specific Conductance (mmhos)/cm	18.06	18.01	-0.05
Field Temperature (^{0}C)	25.7	25.7	0.0
Field pH (SU)	7.3	7.3	0.0
Field Dissolved Oxygen (mg/L)	5.0	4.9	-0.1
Percent Saturation of D.O. (%)	64.4	63.7	-0.7
Secchi Depth (meters)	0.93	1.11	0.19

Hydrobiological Data - Site 1 Myk Creek at Appomatox

Date	1/15/09	2/11/09	3/11/09	4/9/09	5/6/09	6/10/09	7/8/09	8/5/09	9/3/09	10/14/09	11/4/09	12/2/09	2009 Max	2009 Min	2009 Arith. Avg.	2009 Geom Mean
Nitrate, Nitrite as N (mg/L)	0.042	0.020	0.026	0.047	0.021	0.037	0.088	0.046	0.017 I	0.181	0.124	0.121	0.181	0.017	0.064	0.048
Ammonia as N (mg/L)	0.051	0.020	0.061	0.047	0.032	0.049	0.040	0.037	0.078	0.105	0.052	0.048	0.105	0.020	0.052	0.048
Total Kjeldahl Nitrogen as N (mg/L)	0.64	0.40	0.73	0.87	0.74	0.85	1.22	1.01	1.61	1.32	0.97	0.83	1.61	0.40	0.93	0.88
Ortho Phosphorus as P (mg/L)	0.071	0.098	0.073	0.192	0.221	0.116	0.227	0.174	0.448	0.303	0.172	0.145	0.448	0.071	0.187	0.162
Total Phosphorus as P (mg/L)	0.11 I	0.18 I	0.09 I	0.22	0.27	0.17 I	0.27	0.20	0.53	0.35	0.23	0.21	0.53	0.09	0.24	0.21
Total Suspended Solids (mg/L)	U 2	U 2	3 I	U 2	U 2	U 2	U 2	U 2	5 I	2 I	3 I	U 2	5	2	2	2
Turbidity (NTU)	2.3	2.6	3.1	3.0	1.6	2.3	2.0	2.7	4.0	4.1	5.8	5.1	5.8	1.6	3.2	3.0
Color Apparent (PCU)	48	44	50	50	47	90	150	200	360	250	130	80	360	44	125	96
Color pH SU	7.4	7.46	7.62	7.67	7.80	7.44	7.23	7.28	6.92	7.29	7.61	7.62	7.80	6.92	7.45	7.44
Chlorophyll a - Pheo Corrected (ug/L)	3.16	0.84	2.35	2.26	2.81	3.48	3.64	4.03	4.77	1.48	16.45	2.21	16.45	0.84	3.96	2.99
Specific Conductance (mmhos)/cm	1.03	1.2	1.3	1.21	1.09	0.824	0.847	0.481	0.284	0.613	0.847	0.791	1.3	0.3	0.9	0.8
Salinity - Lab (PSU)	0.5 I	0.6 I	0.6 I	0.6 I	0.5 I	0.3 I	0.4 I	U 0.2	U 0.2	0.2 I	0.4 I	0.3 I	0.6	0.2	0.4	0.4
Overall Depth (meters)																
Depth of Measurement (meters)																
Field Salinity (PSU)																
Field Specific Conductance (mmhos)/cm																
Field Temperature (^{0}C)																
Field pH (SU)																
Field Dissolved Oxygen (mg/L)																
Percent Saturation of D.O. (%)																
Secchi Depth (meters)																
	U = Less than Method Detection Limit															
	B = Secchi Depth greater than the bottom channel. For average and graphing purposes, the total depth is used instead.															
	I = Value is between the MDL and Practical Quantitation Limit (PQL)															

Hydrobiological Data - Site 2 Cocoplum at Sumter

Date	1/15/09	2/11/09	3/11/09	4/9/09	5/6/09	6/10/09	7/8/09	8/5/09	9/3/09	10/14/09	11/4/09	12/2/09	2009 Max	2009 Min	2009 Arith. Avg.	2009 Geom Mean
Nitrate, Nitrite as N (mg/L)	0.007 I	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	0.036	U 0.005	U 0.005	U 0.005	0.036	0.005	0.008	0.006
Ammonia as N (mg/L)	0.041	0.007 U, I	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	0.047	0.178	0.064	0.013 I	U 0.005	0.178	0.005	0.032	0.013
Total Kjeldahl Nitrogen as N (mg/L)	0.74	0.62	0.72	0.81	0.76	0.87	0.95	0.78	1.21	1.12	0.89	0.94	1.21	0.62	0.87	0.85
Ortho Phosphorus as P (mg/L)	0.021	0.009 I	0.008 I	0.017 I	0.015 I	0.039	0.067	0.065	0.158	0.118	0.039	0.007 I	0.158	0.007	0.047	0.029
Total Phosphorus as P (mg/L)	0.06 I	U 0.05	U 0.05	U 0.05	U 0.05	0.09 I	0.11 I	0.10 I	0.22	0.20	0.09 I	U 0.05	0.22	0.05	0.09	0.08
Total Suspended Solids (mg/L)	5 I	2 U, I	3 I	2 U, I	U 2	4 I	3 I	U 2	4 I	3 I	3 I	2 U, I	4.5	1.65	3	3
Turbidity (NTU)	2.5	2.0	1.7	2.3	1.5	2.9	2.5	1.7	3.9	2.3	2.5	2.2	3.9	1.5	2.3	2.2
Color Apparent (PCU)	37	33	31.5	45	34.5	62.5	60	55	205	160	92.5	52.5	205	31.5	72	59
Color pH SU	7.82	7.96	8.04	8.08	8.01	7.77	7.84	7.68	7.43	7.56	7.81	7.95	8.08	7.43	7.83	7.82
Chlorophyll a - Pheo Corrected (ug/L)	7.18	8.43	5.19	6.33	4.32	17.34	22.77	15.09	15.31	19.49	17.59	17.87	22.77	4.32	13.07	11.39
Specific Conductance (mmhos)/cm	1.24	1.29	1.33	1.10	1.10	0.84	0.881	0.839	0.598	0.852	1.03	1.070	1.3	0.6	1.0	1.0
Salinity - Lab (PSU)	0.6 I	0.6 I	0.6 I	0.5 I	0.5 I	0.4 I	0.4 I	0.4 I	0.2 I	0.4 I	0.5 I	0.5 I	0.6	0.2	0.5	0.5
Overall Depth (meters)																
Depth of Measurement (meters)																
Field Salinity (PSU)																
Field Specific Conductance (mmhos)/cm																
Field Temperature (°C)																
Field pH (SU)																
Field Dissolved Oxygen (mg/L)																
Percent Saturation of D.O. (%)																
Secchi Depth (meters)																
	U = Less than Method Detection Limit															
	B = Secchi Depth greater than the bottom channel. For average and graphing purposes, the total depth is used instead.															
	I = Value is between the MDL and Practical Quantitation Limit (PQL)															

Hydrobiological Data - Site 3 Myk Creek Downstream WTP

Date	1/15/09	2/11/09	3/11/09	4/9/09	5/6/09	6/10/09	7/8/09	8/5/09	9/3/09	10/14/09	11/4/09	12/2/09	2009 Max	2009 Min	2009 Arith. Avg.	2009 Geom Mean
Nitrate, Nitrite as N (mg/L)																
Ammonia as N (mg/L)																
Total Kjeldahl Nitrogen as N (mg/L)																
Ortho Phosphorus as P (mg/L)																
Total Phosphorus as P (mg/L)																
Total Suspended Solids (mg/L)																
Turbidity (NTU)																
Color Apparent (PCU)																
Color pH SU																
Chlorophyll a - Pheo Corrected (ug/L)																
Specific Conductance (mmhos)/cm																
Salinity - Lab (PSU)																
Overall Depth (meters)	1.2	1.4	1.4	1.4	1.7	1.8	1.8	1.4	1.9	1.0	1.3	1.4	1.9	1.0	1.5	1.5
Depth of Measurement (meters)	1	1	1	1	1	1	1	1	1	0.8	1	1	1.0	0.8	1.0	1.0
Field Salinity (PSU)	14.6	17.4	19.7	19.5	23.7	9.9	0.4	0.3	0.3	0.4	6.2	11.0	23.7	0.3	10.3	4.1
Field Specific Conductance (mmhos)/cm	24.13	28.26	31.63	31.31	37.39	16.92	0.82	0.58	0.56	0.81	10.96	18.48	37.39	0.56	16.82	7.18
Field Temperature (^{0}C)	22.7	20.0	23.8	24.9	29.7	28.7	30.8	29.2	29.2	28.3	27.5	21.1	30.8	20.0	26.3	26.1
Field pH (SU)	7.1	7.4	7.1	7.1	7.4	7.1	7.6	7.4	7.2	7.4	7.1	7.2	7.6	7.1	7.3	7.3
Field Dissolved Oxygen (mg/L)	3.5	6.3	4.1	4.5	3.1	1.9	5.2	5.1	4.2	4.1	1.9	4.8	6.3	1.9	4.1	3.8
Percent Saturation of D.O. (%)	45	77	55	61	47	27	70	67	55	52	25	58	77	25	53	51
Secchi Depth (meters)	1.20 >B	1.33	1.40 >B	1.40 >B	1.70 >B	1.30	1.45	1.40 >B		1.00 >B	0.88	0.95	1.70	0.88	1.27	1.25
	U = Less than Method Detection Limit															
	B = Secchi Depth greater than the bottom channel. For average and graphing purposes, the total depth is used instead.															
	I = Value is between the MDL and Practical Quantitation Limit (PQL)															
	Note = No data for Secchi depth on 9/3/09, due to strong current.															

Hydrobiological Data - Site 4 Myk Creek

Date	1/15/09	2/11/09	3/11/09	4/9/09	5/6/09	6/10/09	7/8/09	8/5/09	9/3/09	10/14/09	11/4/09	12/2/09	2009 Max	2009 Min	2009 Arith. Avg.	2009 Geom Mean
Nitrate, Nitrite as N (mg/L)	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	0.015 I	0.035	0.020	0.028	0.085	0.034	U 0.005	0.085	0.005	0.021	0.012
Ammonia as N (mg/L)	0.037	0.008 I	0.010 I	U 0.005	0.018 I	0.073	0.043	0.046	0.133	0.095	0.084	U 0.005	0.133	0.005	0.046	0.028
Total Kjeldahl Nitrogen as N (mg/L)	0.89	0.70	0.98	0.92	1.07	0.93	1.03	0.86	1.39	1.14	0.95	0.99	1.39	0.70	0.99	0.97
Ortho Phosphorus as P (mg/L)	0.109	0.085	0.105	0.156	0.180	0.149	0.139	0.119	0.273	0.166	0.154	0.072	0.273	0.072	0.142	0.134
Total Phosphorus as P (mg/L)	0.20	0.18 I	0.18 I	0.23	0.32	0.21	0.18 I	0.17 I	0.37	0.25	0.21	0.13 I	0.37	0.13	0.22	0.21
Total Suspended Solids (mg/L)	11	5 I	8	7 I	8	3 I	2 I	6 I	9	4 I	4 I	4 I	11	2	6	5
Turbidity (NTU)	4.9	3.2	2.8	3.1	3.5	2.8	2.3	6.0	6.4	5.0	5.7	4.2	6.4	2.3	4.2	3.9
Color Apparent (PCU)	70	55	55	65	65	85	120	130	250	170	120	85	250	55	106	95
Color pH SU	7.47	7.81	7.65	7.67	7.69	7.59	7.77	7.67	7.31	7.61	7.61	7.85	7.85	7.31	7.64	7.64
Chlorophyll a - Pheo Corrected (ug/L)	11.66	13.03	13.07	14.28	16.18	9.90	10.63	14.56	11.74	22.24	14.26	28.35	28.35	9.90	14.99	14.32
Specific Conductance (mmhos)/cm	22.0	21.8	27.8	25.0	32.8	4.67	0.898	0.631	0.483	0.904	5.490	10.200	32.8	0.5	12.7	5.5
Salinity - Lab (PSU)	13.0	13.1	17.1	15.2	20.5	2.5	0.4 I	0.2 I	U 0.2	0.4 I	2.9	5.7	20.5	0.2	7.6	2.8
Overall Depth (meters)	0.9	1.1	1.0	1.2	1.2	1.4	1.6	1.4	1.4	1.6	1.0	1.1	1.6	0.9	1.2	1.2
Depth of Measurement (meters)	0.7	0.9	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.9	1.0	0.7	0.9	0.9
Field Salinity (PSU)	14.8	17.7	19.6	18.8	23.3	10.8	0.4	0.3	0.2	0.5	6.1	12.1	23.3	0.2	10.4	4.1
Field Specific Conductance (mmhos)/cm	24.37	28.80	31.54	30.36	36.79	18.29	0.83	0.56	0.48	0.86	10.65	20.11	36.79	0.48	16.97	7.17
Field Temperature (^{0}C)	22.4	19.6	24.0	24.4	30.2	29.0	30.2	28.7	28.9	28.4	27.6	20.9	30.2	19.6	26.2	25.9
Field pH (SU)	7.2	7.4	7.2	7.2	7.4	7.1	7.5	7.3	7.1	7.4	7.1	7.2	7.5	7.1	7.3	7.3
Field Dissolved Oxygen (mg/L)	4.2	6.5	4.8	4.0	3.1	1.5	4.7	4.2	4.5	4.2	1.7	5.2	6.5	1.5	4.1	3.8
Percent Saturation of D.O. (%)	53	79	64	54	48	21	63	55	59	54	23	63	79	21	53	50
Secchi Depth (meters)	0.90 >B	1.10 >B	1.00 >B	1.20 >B	1.20 >B	1.2	1.60 >B	0.85		0.75	0.80	1.10 >B	1.60	0.75	1.06	1.04
	U = Less than Method Detection Limit															
	B = Secchi Depth greater than the bottom channel. For average and graphing purposes, the total depth is used instead.															
	I = Value is between the MDL and Practical Quantitation Limit (PQL)															
	Note = No data for Secchi depth on 9/3/09, due to strong current.															

Hydrobiological Data - Site 5 Myk Creek

Date	1/15/09	2/11/09	3/11/09	4/9/09	5/6/09	6/10/09	7/8/09	8/5/09	9/3/09	10/14/09	11/4/09	12/2/09	2009 Max	2009 Min	2009 Arith. Avg.	2009 Geom Mean
Nitrate, Nitrite as N (mg/L)																
Ammonia as N (mg/L)																
Total Kjeldahl Nitrogen as N (mg/L)																
Ortho Phosphorus as P (mg/L)																
Total Phosphorus as P (mg/L)																
Total Suspended Solids (mg/L)																
Turbidity (NTU)																
Color Apparent (PCU)																
Color pH SU																
Chlorophyll a - Pheo Corrected (ug/L)																
Specific Conductance (mmhos)/cm																
Salinity - Lab (PSU)																
Overall Depth (meters)	1.4	1.8	1.5	1.7	1.9	1.9	2.4	1.8	2.2	2.0	1.5	1.8	2.4	1.4	1.8	1.8
Depth of Measurement (meters)	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.0	1.0	1.0
Field Salinity (PSU)	14.5	17.9	20.4	21.1	24.4	10.5	0.6	0.3	0.2	0.5	7.1	11.1	24.4	0.2	10.7	4.3
Field Specific Conductance (mmhos)/cm	23.93	29.01	32.71	33.56	38.36	17.85	1.05	0.55	0.45	0.98	12.40	18.58	38.36	0.45	17.45	7.48
Field Temperature (^{0}C)	21.2	19.5	23.3	22.3	29.2	28.8	30.1	28.8	28.7	28.5	27.7	21.1	30.1	19.5	25.8	25.5
Field pH (SU)	7.2	7.4	7.2	7.4	7.5	7.3	7.4	7.3	7.2	7.4	7.2	7.2	7.5	7.2	7.3	7.3
Field Dissolved Oxygen (mg/L)	4.7	6.3	5.1	6.2	4.3	3.6	5.0	4.3	4.4	3.5	3.4	5.5	6.3	3.4	4.7	4.6
Percent Saturation of D.O. (%)	58	77	68	82	65	50	67	55	57	45	45	67	82	45	61	60
Secchi Depth (meters)	1.10	1.35	1.50 >B	1.35	1.50	1.25	1.35	1.00	0.43	0.69	0.88	1.05	1.50	0.43	1.12	1.06
	U = Less than Method Detection Limit															
	B = Secchi Depth greater than the bottom channel. For average and graphing purposes, the total depth is used instead.															
	I = Value is between the MDL and Practical Quantitation Limit (PQL)															

Hydrobiological Data - Site 6 Myk Creek

Date	1/15/09	2/11/09	3/11/09	4/9/09	5/6/09	6/10/09	7/8/09	8/5/09	9/3/09	10/14/09	11/4/09	12/2/09	2009 Max	2009 Min	2009 Arith. Avg.	2009 Geom Mean
Nitrate, Nitrite as N (mg/L)	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	0.011 I	U 0.005	0.037	0.023	0.061	0.024	0.025	0.061	0.005	0.018	0.011
Ammonia as N (mg/L)	0.009 I	0.007 U, I	0.010 I	U 0.005	0.011 I	0.031	U 0.005	0.048	0.090	0.107	0.079	0.010 I	0.107	0.005	0.034	0.019
Total Kjeldahl Nitrogen as N (mg/L)	1.02	0.66	0.89	0.80	1.06	0.96	1.04	0.94	1.50	1.18	1.14	0.95	1.50	0.66	1.01	0.99
Ortho Phosphorus as P (mg/L)	0.099	0.076	0.097	0.125	0.154	0.125	0.115	0.143	0.378	0.198	0.191	0.091	0.378	0.076	0.149	0.135
Total Phosphorus as P (mg/L)	0.20	0.19	0.17 I	0.19 I	0.28	0.20	0.17	0.20	0.55	0.27	0.28	0.14 I	0.55	0.14	0.23	0.22
Total Suspended Solids (mg/L)	9	6 I	9	6 I	16.5	3 I	3 I	3 I	6 I	4 I	4 I	3 I	16.5	2.5	6	5
Turbidity (NTU)	3.5	2.6	2.4	2.8	3.1	3.3	3.1	4.4	4.0	3.5	3.7	2.5	4.4	2.4	3.2	3.2
Color Apparent (PCU)	65	47	52.5	60	57.5	90	100	150	330	205	140	87.5	330	47	115	96
Color pH SU	7.68	7.89	7.79	7.81	7.84	7.68	7.82	7.60	7.21	7.66	7.66	7.83	7.89	7.21	7.70	7.70
Chlorophyll a - Pheo Corrected (ug/L)	36.73	9.99	9.07	10.01	15.81	11.18	22.15	11.96	4.57	15.73	29.28	14.07	36.73	4.57	15.88	13.76
Specific Conductance (mmhos)/cm	21.8	23.8	26.8	25.0	34.2	6.7	1.3	0.62	0.36	19.18	6.8	8.5	34.2	0.4	14.6	7.4
Salinity - Lab (PSU)	13.1	14.4	16.4	15.2	21.5	3.6	0.6 I	0.2 I	U 0.2	0.6 I	3.7	1.2 I	21.5	0.2	7.5	2.8
Overall Depth (meters)	2.2	2.7	2.4	2.6	2.7	2.5	3.2	2.7	2.5	2.6	2.8	2.8	3.2	2.2	2.6	2.6
Depth of Measurement (meters)	1	1	1	1	1	1	1	1	1	1	1	1.0	1.0	1.0	1.0	1.0
Field Salinity (PSU)	14.1	17.9	20.5	20.4	24.1	10.4	0.9	0.3	0.2	0.7	4.0	11.5	24.1	0.2	10.4	4.4
Field Specific Conductance (mmhos)/cm	23.42	29.09	32.79	32.52	37.98	17.75	1.63	0.60	0.36	1.30	7.20	19.29	37.98	0.36	16.99	7.49
Field Temperature (^{0}C)	19.7	19.4	23.2	22.5	29.0	28.8	30.6	28.8	28.3	29.1	25.7	21.0	30.6	19.4	25.5	25.2
Field pH (SU)	7.4	7.4	7.3	7.4	7.5	7.3	7.4	7.3	6.9	7.4	7.4	7.3	7.5	6.9	7.3	7.3
Field Dissolved Oxygen (mg/L)	6.6	6.8	5.6	6.4	4.8	4.3	5.4	4.2	4.4	4.0	4.1	5.7	6.8	4.0	5.2	5.1
Percent Saturation of D.O. (%)	78	83	74	82	73	60	73	54	56	53	52	69	83	52	67	66
Secchi Depth (meters)	1.00	1.63	1.65	1.20	1.45	1.35	1.20	1.00	0.38	0.65	0.85	1.45	1.65	0.38	1.15	1.07
	U = Less than Method Detection Limit															
	B = Secchi Depth greater than the bottom channel. For average and graphing purposes, the total depth is used instead.															
	I = Value is between the MDL and Practical Quantitation Limit (PQL)															

Hydrobiological Data - Site 7 Myk Creek

Date	1/15/09	2/11/09	3/11/09	4/9/09	5/6/09	6/10/09	7/8/09	8/5/09	9/3/09	10/14/09	11/4/09	12/2/09	2009 Max	2009 Min	2009 Arith. Avg.	2009 Geom Mean
Nitrate, Nitrite as N (mg/L)	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	U 0.005	0.007 I	0.037	0.022	0.082	0.020	0.025	0.082	0.005	0.019	0.011
Ammonia as N (mg/L)	0.008 I	0.005 I	0.009 I	U 0.005	0.017 I	U 0.005	U 0.005	0.035	0.089	0.033	0.026	0.008 I	0.089	0.005	0.020	0.013
Total Kjeldahl Nitrogen as N (mg/L)	0.77	0.66	0.82	0.89	0.98	0.93	1.13	0.89	1.53	1.16	0.91	0.93	1.53	0.66	0.97	0.95
Ortho Phosphorus as P (mg/L)	0.092	0.084	0.087	0.114	0.131	0.145	0.199	0.140	0.380	0.322	0.186	0.097	0.380	0.084	0.165	0.145
Total Phosphorus as P (mg/L)	0.16 I	0.18 I	0.14 I	0.17 I	0.24	0.24	0.29	0.18 I	0.50	0.39	0.25	0.14 I	0.50	0.14	0.24	0.22
Total Suspended Solids (mg/L)	7 I	7 I	4 I	6 I	17	4 I	4 I	5 I	12	3 I	4 I	3 I	17	3	6	5
Turbidity (NTU)	2.9	2.5	1.9	2.8	3.1	3.2	3.2	4.3	6.9	2.6	3.5	2.1	6.9	1.9	3.3	3.1
Color Apparent (PCU)	65	50	55	60	55	95	120	120	320	260	170	100	320	50	123	101
Color pH SU	7.73	7.89	7.78	7.89	7.81	7.85	7.68	7.73	7.14	7.25	7.71	7.87	7.89	7.14	7.69	7.69
Chlorophyll a - Pheo Corrected (ug/L)	13.38	8.92	6.52	7.82	9.32	13.09	18.44	18.06	6.68	10.04	25.72	11.37	25.72	6.52	12.45	11.41
Specific Conductance (mmhos)/cm	23.2	27.2	30.5	27.9	36.9	10.1	2.87	0.800	0.372	3.6	7.6	15.2	36.9	0.4	15.5	8.0
Salinity - Lab (PSU)	14.0	17.0	18.9	17.1	23.3	5.7	1.5	0.3 I	U 0.2	1.9	4.1	8.8	23.3	0.2	9.4	4.5
Overall Depth (meters)	3.0	3.1	3.2	3.1	3.4	3.0	3.4	3.1	3.0	3.0	2.9	3.1	3.4	2.9	3.1	3.1
Depth of Measurement (meters)	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.0	1.0	1.0
Field Salinity (PSU)	14.2	17.5	20.6	21.5	24.7	11.0	1.9	0.4	0.2	2.0	6.2	11.6	24.7	0.2	11.0	5.4
Field Specific Conductance (mmhos)/cm	23.54	28.41	33.05	34.09	38.72	18.61	3.47	0.70	0.37	3.67	10.84	19.35	38.72	0.37	17.90	9.22
Field Temperature (^{0}C)	18.8	19.3	22.8	21.3	28.3	28.3	30.5	29.6	28.3	29.6	26.9	21.4	30.5	18.8	25.4	25.1
Field pH (SU)	7.4	7.5	7.3	7.5	7.6	7.4	7.3	7.4	7.0	7.2	7.4	7.3	7.6	7.0	7.4	7.4
Field Dissolved Oxygen (mg/L)	6.7	7.0	5.5	7.1	5.2	4.6	4.5	4.4	4.1	4.3	4.3	6.3	7.1	4.1	5.3	5.2
Percent Saturation of D.O. (%)	78	85	73	92	77	64	60	58	53	57	56	76	92	53	69	68
Secchi Depth (meters)	1.25	1.50	1.65	1.53	1.52	1.15	1.05	0.95	0.35	0.64	0.80	1.55	1.65	0.35	1.16	1.07
	U = Less than Method Detection Limit															
	B = Secchi Depth greater than the bottom channel. For average and graphing purposes, the total depth is used instead.															
	I = Value is between the MDL and Practical Quantitation Limit (PQL)															

Hydrobiological Data - Site 8 Myk Creek

Date	1/15/09	2/11/09	3/11/09	4/9/09	5/6/09	6/10/09	7/8/09	8/5/09	9/3/09	10/14/09	11/4/09	12/2/09	2009 Max	2009 Min	2009 Arith. Avg.	2009 Geom Mean
Nitrate, Nitrite as N (mg/L)																
Ammonia as N (mg/L)																
Total Kjeldahl Nitrogen as N (mg/L)																
Ortho Phosphorus as P (mg/L)																
Total Phosphorus as P (mg/L)																
Total Suspended Solids (mg/L)																
Turbidity (NTU)																
Color Apparent (PCU)																
Color pH SU																
Chlorophyll a - Pheo Corrected (ug/L)																
Specific Conductance (mmhos)/cm																
Salinity - Lab (PSU)																
Overall Depth (meters)	4.5	3.5	4.7	2.9	4.0	4.6	5.8	5.3	5.0	4.1	2.6	3.8	5.8	2.6	4.2	4.1
Depth of Measurement (meters)	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.0	1.0	1.0
Field Salinity (PSU)	14.4	18.9	21.6	22.0	26.2	12.0	4.2	0.9	0.2	2.6	4.8	12.6	26.2	0.2	11.7	6.4
Field Specific Conductance (mmhos)/cm	23.78	30.50	34.31	34.78	40.89	20.16	7.56	1.69	0.37	4.68	8.63	20.99	40.89	0.37	19.03	10.91
Field Temperature (^{o}C)	17.7	19.9	23.3	20.6	28.5	28.2	30.5	30.3	28.2	29.5	25.9	21.5	30.5	17.7	25.3	25.0
Field pH (SU)	7.4	7.5	7.3	7.5	7.6	7.5	7.2	7.2	6.8	7.2	7.3	7.3	7.6	6.8	7.3	7.3
Field Dissolved Oxygen (mg/L)	6.4	6.6	5.6	7.2	4.9	4.5	4.3	3.7	3.5	4.0	4.8	7.0	7.2	3.5	5.2	5.1
Percent Saturation of D.O. (%)	74	82	75	92	74	62	59	49	44	53	61	86	92	44	68	66
Secchi Depth (meters)	1.10	1.15	1.33	1.45	1.35	1.10	1.15	0.85	0.53	0.63	0.73	1.25	1.45	0.53	1.05	1.01
	U = Less than Method Detection Limit															
	B = Secchi Depth greater than the bottom channel. For average and graphing purposes, the total depth is used instead.															
	I = Value is between the MDL and Practical Quantitation Limit (PQL)															

Hydrobiological Data - Site 9 Myakka River Upstream

Date	1/15/09	2/11/09	3/11/09	4/9/09	5/6/09	6/10/09	7/8/09	8/5/09	9/3/09	10/14/09	11/4/09	12/2/09	2009 Max	2009 Min	2009 Arith. Avg.	2009 Geom Mean
Nitrate, Nitrite as N (mg/L)																
Ammonia as N (mg/L)																
Total Kjeldahl Nitrogen as N (mg/L)																
Ortho Phosphorus as P (mg/L)																
Total Phosphorus as P (mg/L)																
Total Suspended Solids (mg/L)																
Turbidity (NTU)																
Color Apparent (PCU)																
Color pH SU																
Chlorophyll a - Pheo Corrected (ug/L)																
Specific Conductance (mmhos)/cm																
Salinity - Lab (PSU)																
Overall Depth (meters)	3.2	2.9	3.4	2.8	3.6	3.6	2.6	3.2	4.0	3.3	2.5	3.0	4.0	2.5	3.2	3.1
Depth of Measurement (meters)	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.0	1.0	1.0
Field Salinity (PSU)	13.0	18.6	20.9	21.7	26.0	11.4	3.6	0.9	0.2	2.3	3.9	11.8	26.0	0.2	11.2	6.0
Field Specific Conductance (mmhos)/cm	21.78	30.14	33.36	34.32	40.56	19.45	6.45	1.63	0.31	4.14	7.08	19.78	40.56	0.31	18.25	10.10
Field Temperature (°C)	17.5	20.1	23.2	20.9	28.3	28.6	30.6	30.1	28.1	29.5	26.2	21.4	30.6	17.5	25.4	25.0
Field pH (SU)	7.4	7.4	7.3	7.5	7.6	7.5	7.1	7.2	6.8	7.2	7.3	7.3	7.6	6.8	7.3	7.3
Field Dissolved Oxygen (mg/L)	6.9	6.7	5.5	7.2	4.4	5.2	4.0	3.7	3.3	3.8	5.4	7.6	7.6	3.3	5.3	5.1
Percent Saturation of D.O. (%)	77	83	73	92	66	73	55	49	42	50	69	93	93	42	68	66
Secchi Depth (meters)	1.15	1.13	1.40	1.40	1.15	1.25	1.05	0.75	0.55	0.60	0.85	1.30	1.40	0.55	1.05	1.00
	U = Less than Method Detection Limit															
	B = Secchi Depth greater than the bottom channel. For average and graphing purposes, the total depth is used instead.															
	I = Value is between the MDL and Practical Quantitation Limit (PQL)															

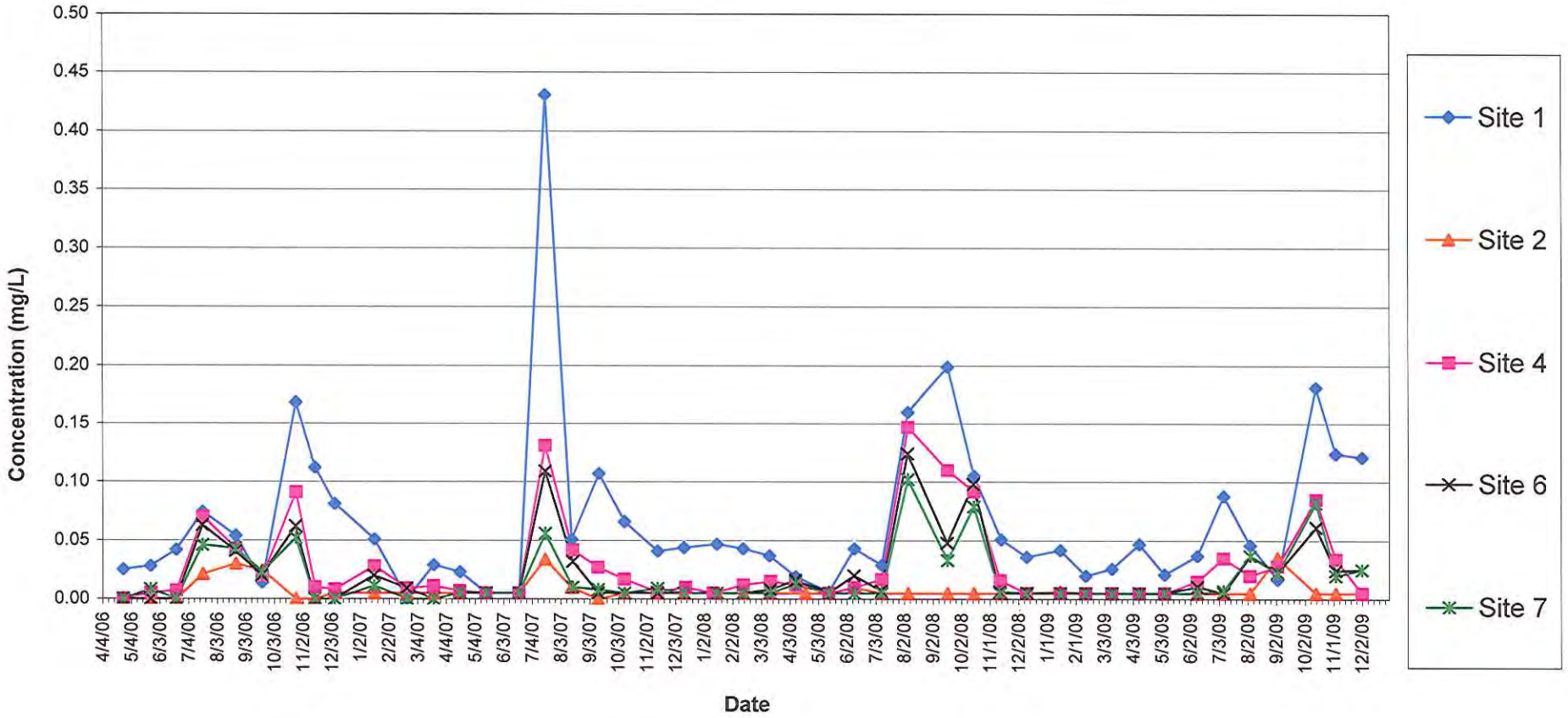
Hydrobiological Data - Site 10 Myakka River Downstream

Date	1/15/09	2/11/09	3/11/09	4/9/09	5/6/09	6/10/09	7/8/09	8/5/09	9/3/09	10/14/09	11/4/09	12/2/09	2009 Max	2009 Min	2009 Arith. Avg.	2009 Geom Mean
Nitrate, Nitrite as N (mg/L)																
Ammonia as N (mg/L)																
Total Kjeldahl Nitrogen as N (mg/L)																
Ortho Phosphorus as P (mg/L)																
Total Phosphorus as P (mg/L)																
Total Suspended Solids (mg/L)																
Turbidity (NTU)																
Color Apparent (PCU)																
Color pH SU																
Chlorophyll a - Pheo Corrected (ug/L)																
Specific Conductance (mmhos)/cm																
Salinity - Lab (PSU)																
Overall Depth (meters)	1.3	1.8	1.8	1.8	2.3	2.0	2.4	2.3	1.8	2.0	1.7	2.0	2.4	1.3	1.9	1.9
Depth of Measurement (meters)	1	1	1	1	1	1	1	1	1	1	1	1	1.0	1.0	1.0	1.0
Field Salinity (PSU)	15.6	19.7	22.0	23.1	27.2	14.0	6.8	1.3	0.2	4.4	5.2	13.0	27.2	0.2	12.7	7.5
Field Specific Conductance (mmhos)/cm	25.56	31.67	35.00	36.34	42.28	23.24	11.93	2.44	0.41	7.93	9.22	21.56	42.28	0.41	20.63	12.78
Field Temperature (^{0}C)	18.2	19.9	23.3	20.3	28.4	28.2	30.3	30.4	28.2	29.4	26.0	21.4	30.4	18.2	25.3	25.0
Field pH (SU)	7.4	7.5	7.3	7.5	7.7	7.5	7.2	7.2	6.8	7.3	7.4	7.3	7.7	6.8	7.3	7.3
Field Dissolved Oxygen (mg/L)	6.5	6.5	5.7	7.1	5.2	5.1	3.8	3.9	3.3	4.4	5.0	7.2	7.2	3.3	5.3	5.2
Percent Saturation of D.O. (%)	76	81	76	91	79	71	53	53	43	60	63	89	91	43	70	68
Secchi Depth (meters)	1.08	1.13	1.33	1.43	1.15	1.18	1.15	0.80	0.45	0.64	0.90	1.35	1.43	0.45	1.05	1.00
	U = Less than Method Detection Limit															
	B = Secchi Depth greater than the bottom channel. For average and graphing purposes, the total depth is used instead.															
	I = Value is between the MDL and Practical Quantitation Limit (PQL)															

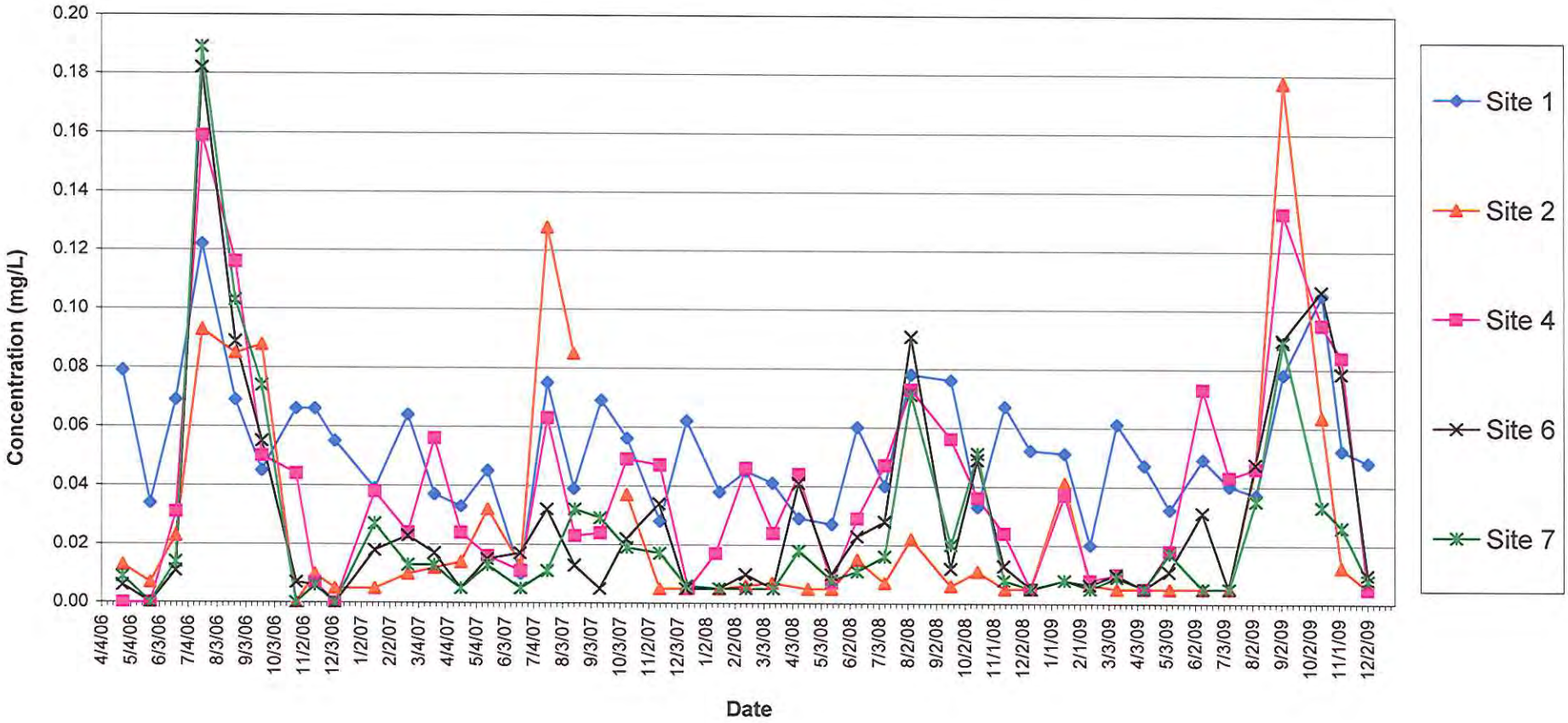
APPENDIX B

WATER QUALITY GRAPHS

Nitrate, Nitrite as N



Ammonia as N


Concentration (mg/L)
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0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
4/4/06
5/4/06
6/3/06
7/4/06
8/3/06
9/3/06
10/3/06
11/2/06
12/3/06
1/2/07
2/2/07
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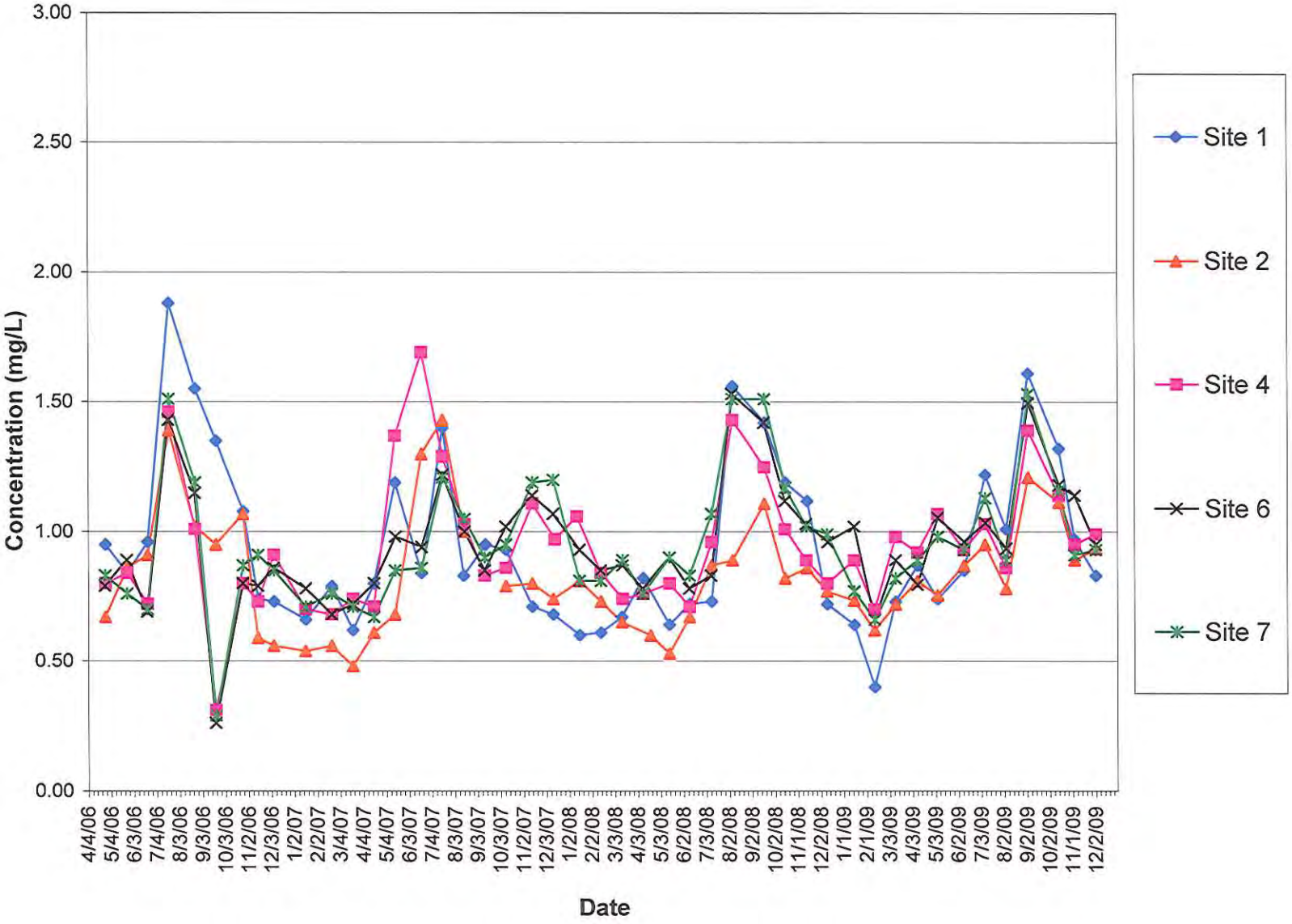
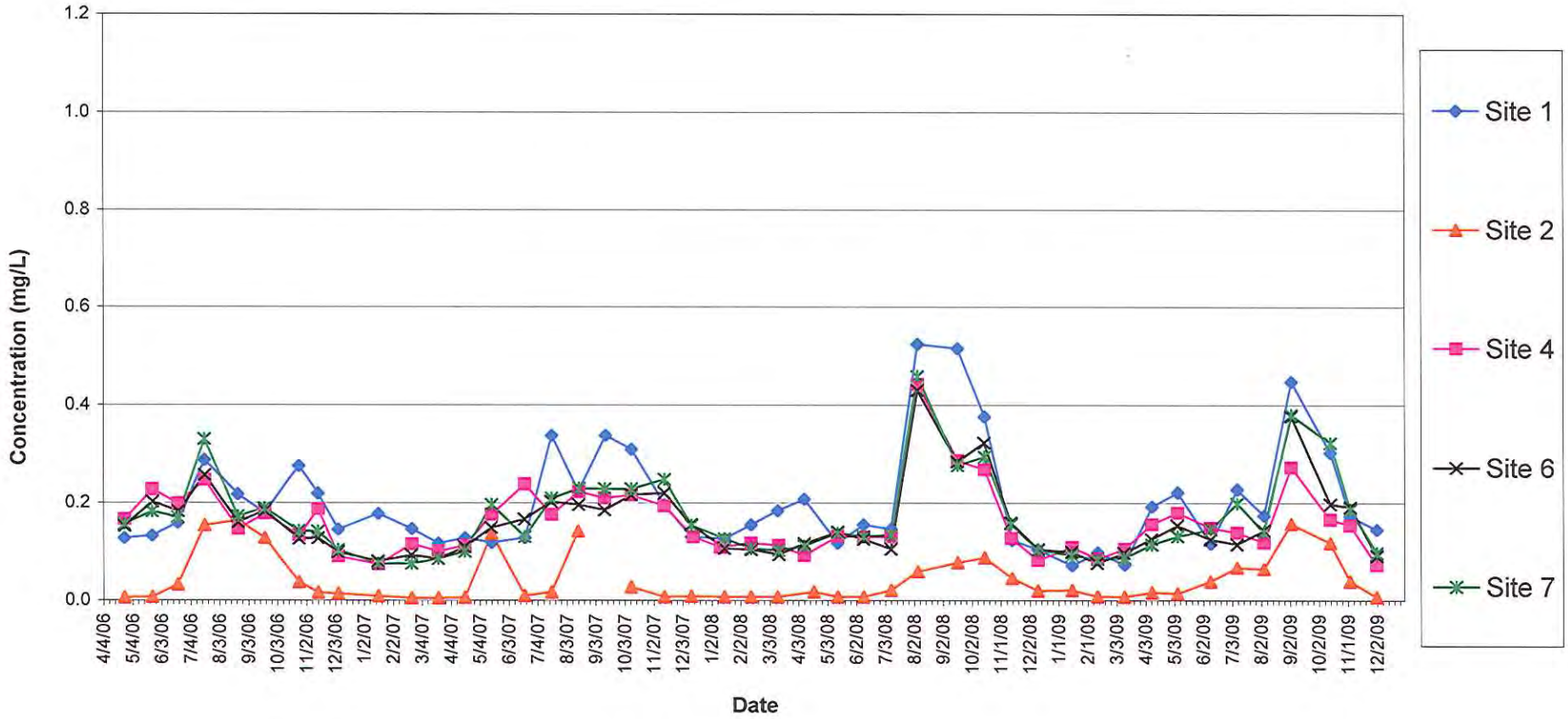
5/3/09
6/2/09
7/3/09
8/2/09
9/2/09
10/2/09
11/1/09
12/2/09
Date
Site 1
Site 2
Site 4
Site 6
Site 7

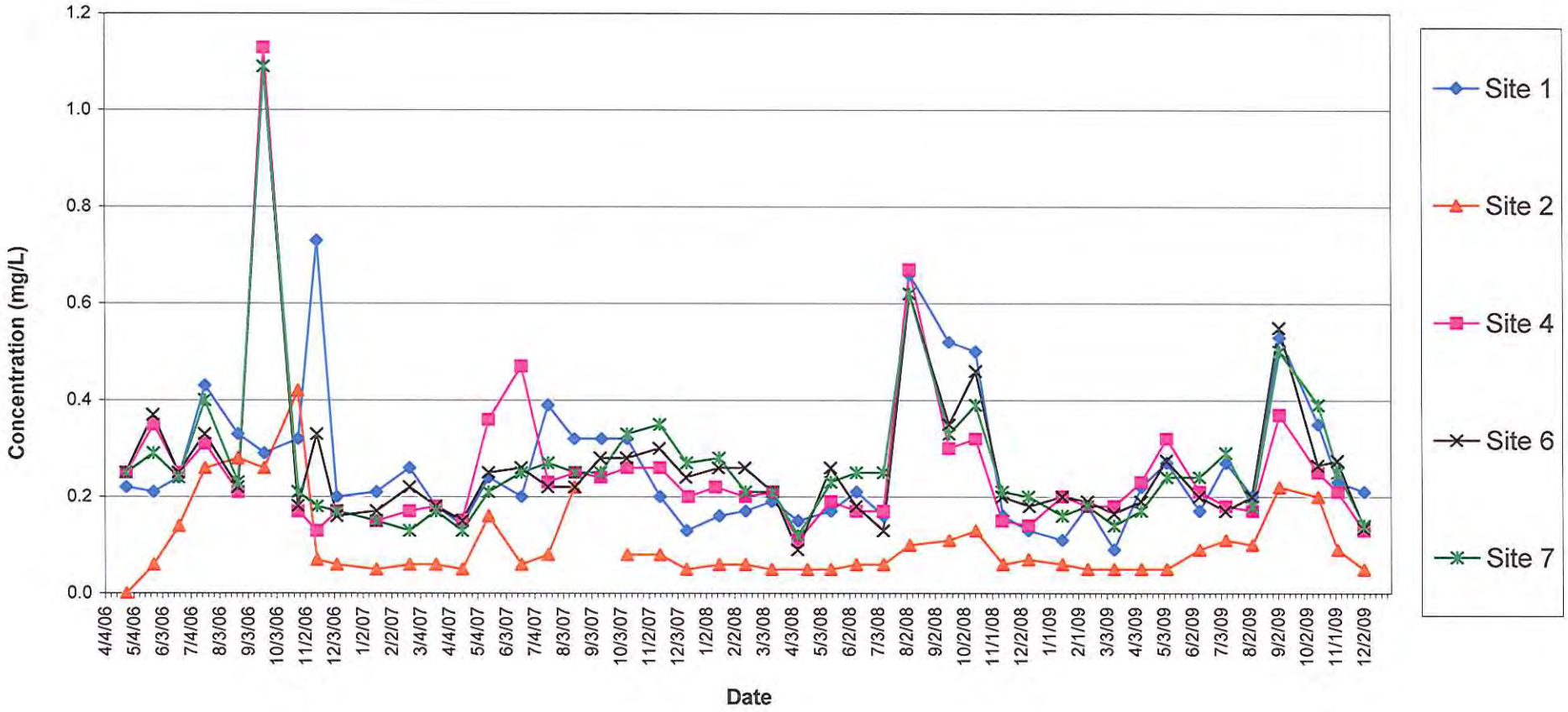
Total Kjeldahl Nitrogen as N



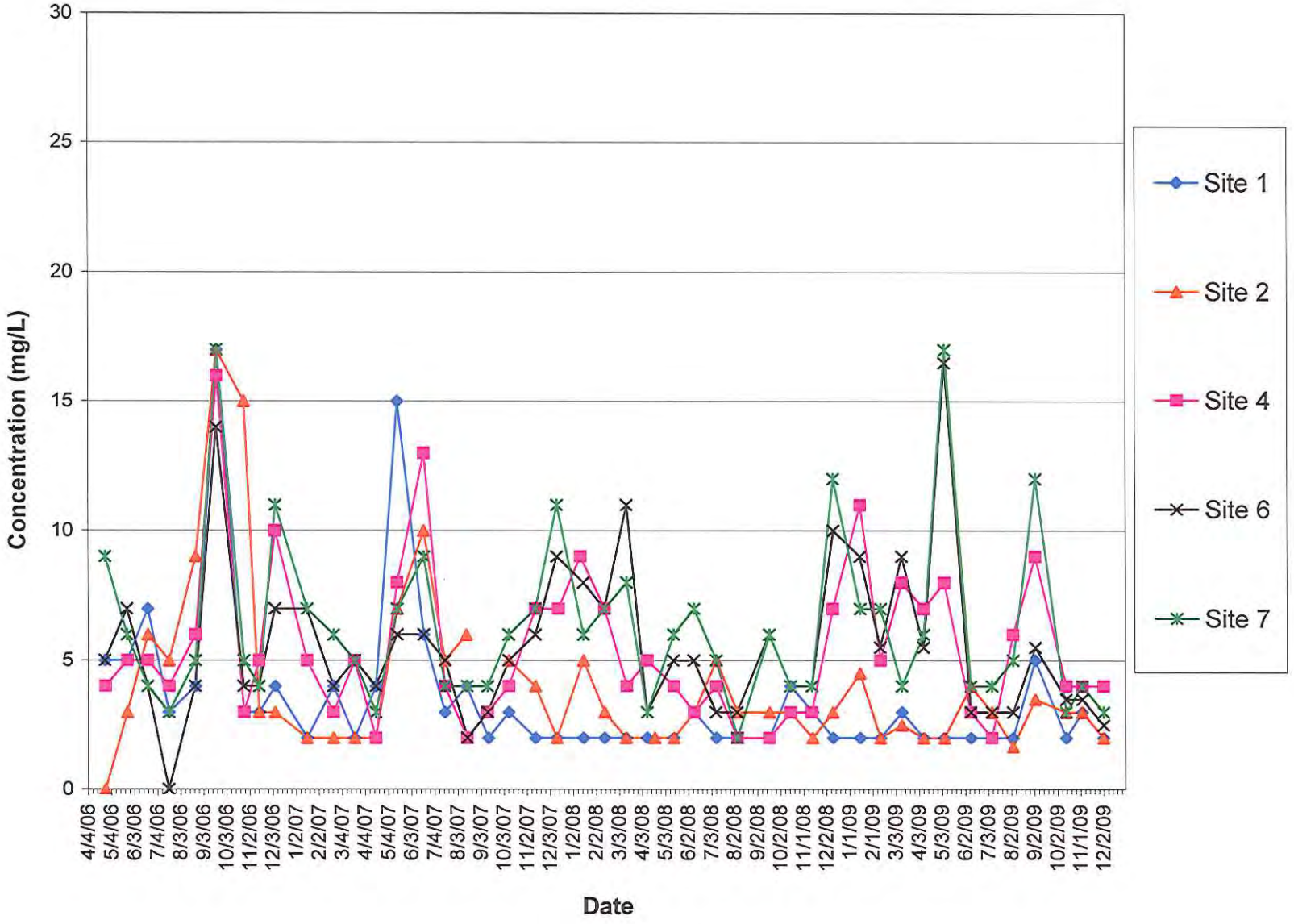
Ortho Phosphorus as P



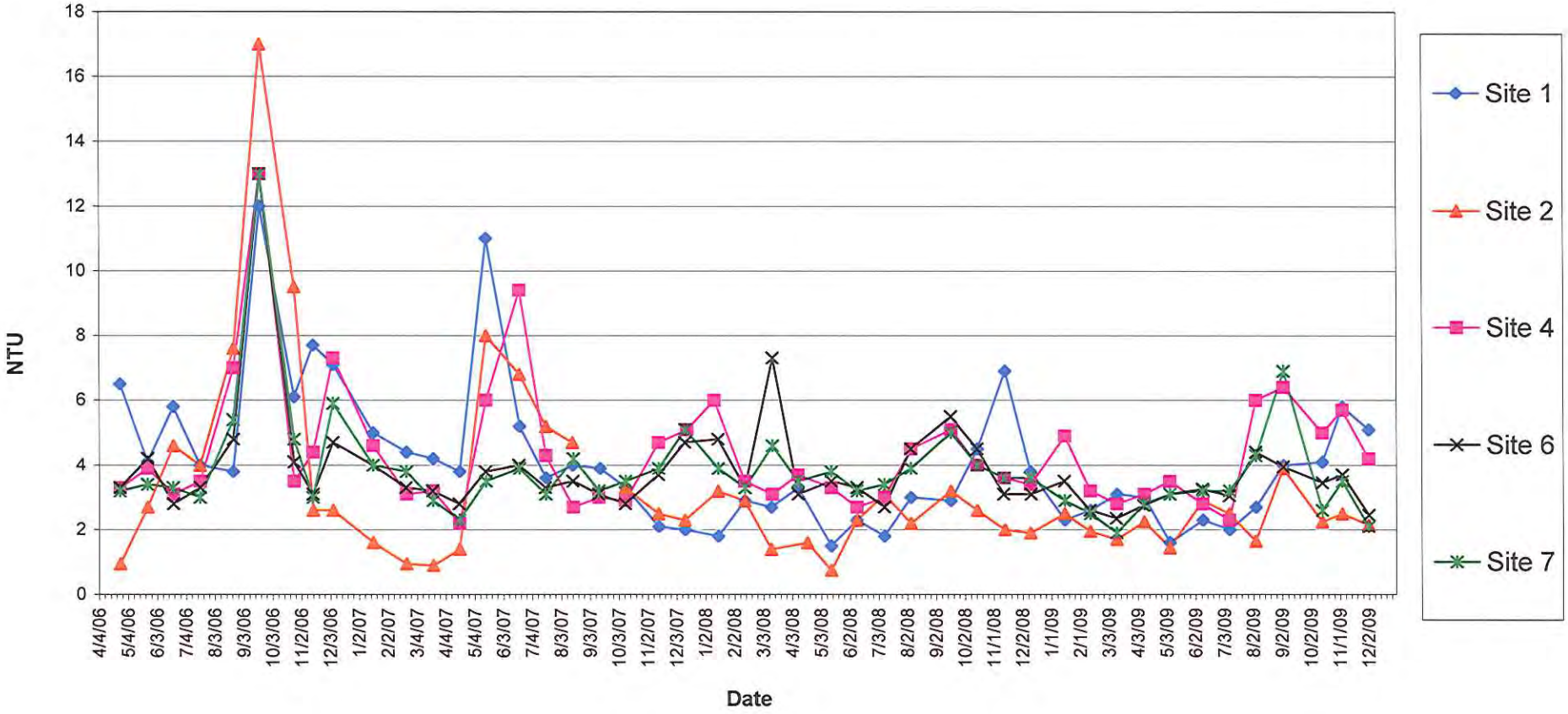
Total Phosphorus as P



Total Suspended Solids



Turbidity


NTU
18
16
14
12
10
8
6
4
2
0
4/4/06
5/4/06
6/3/06
7/4/06
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9/3/06
10/3/06
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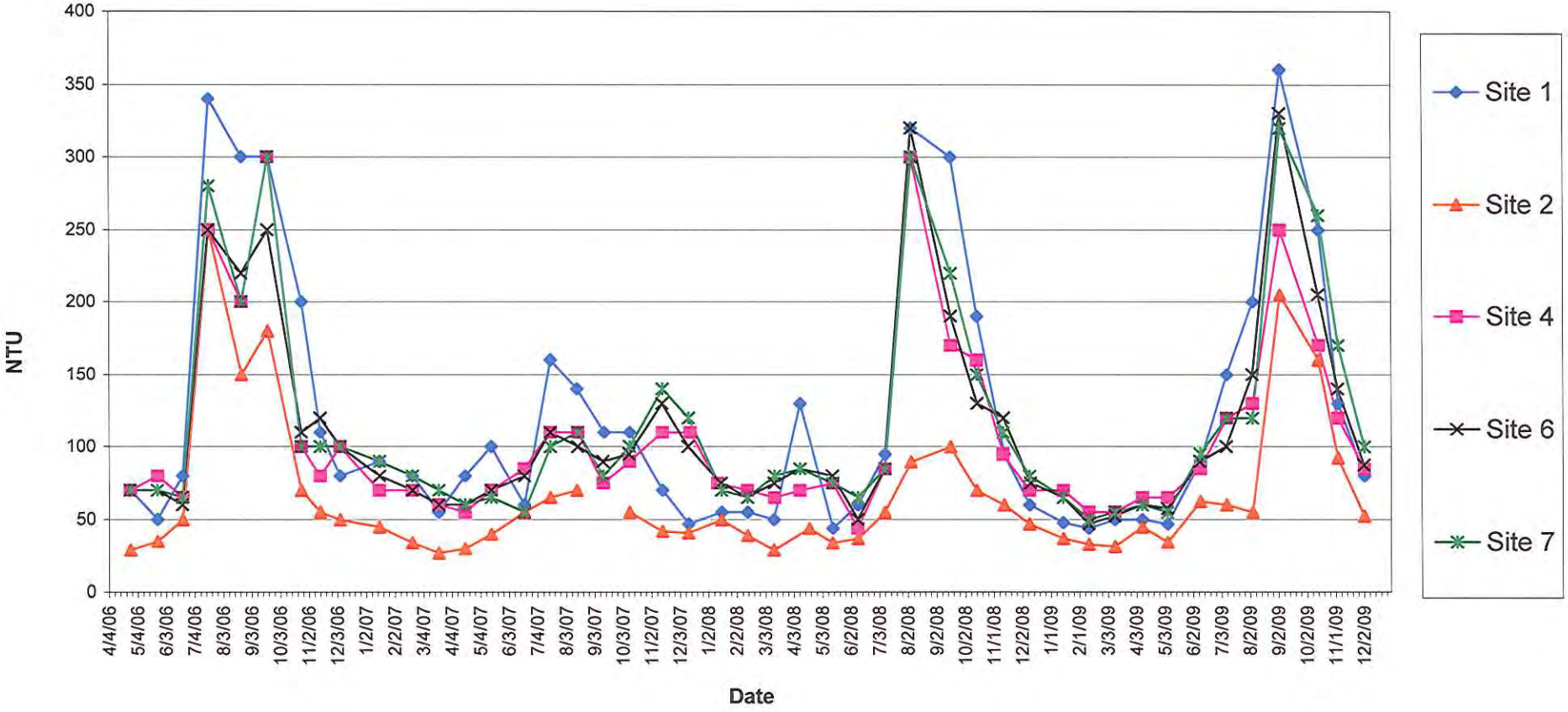
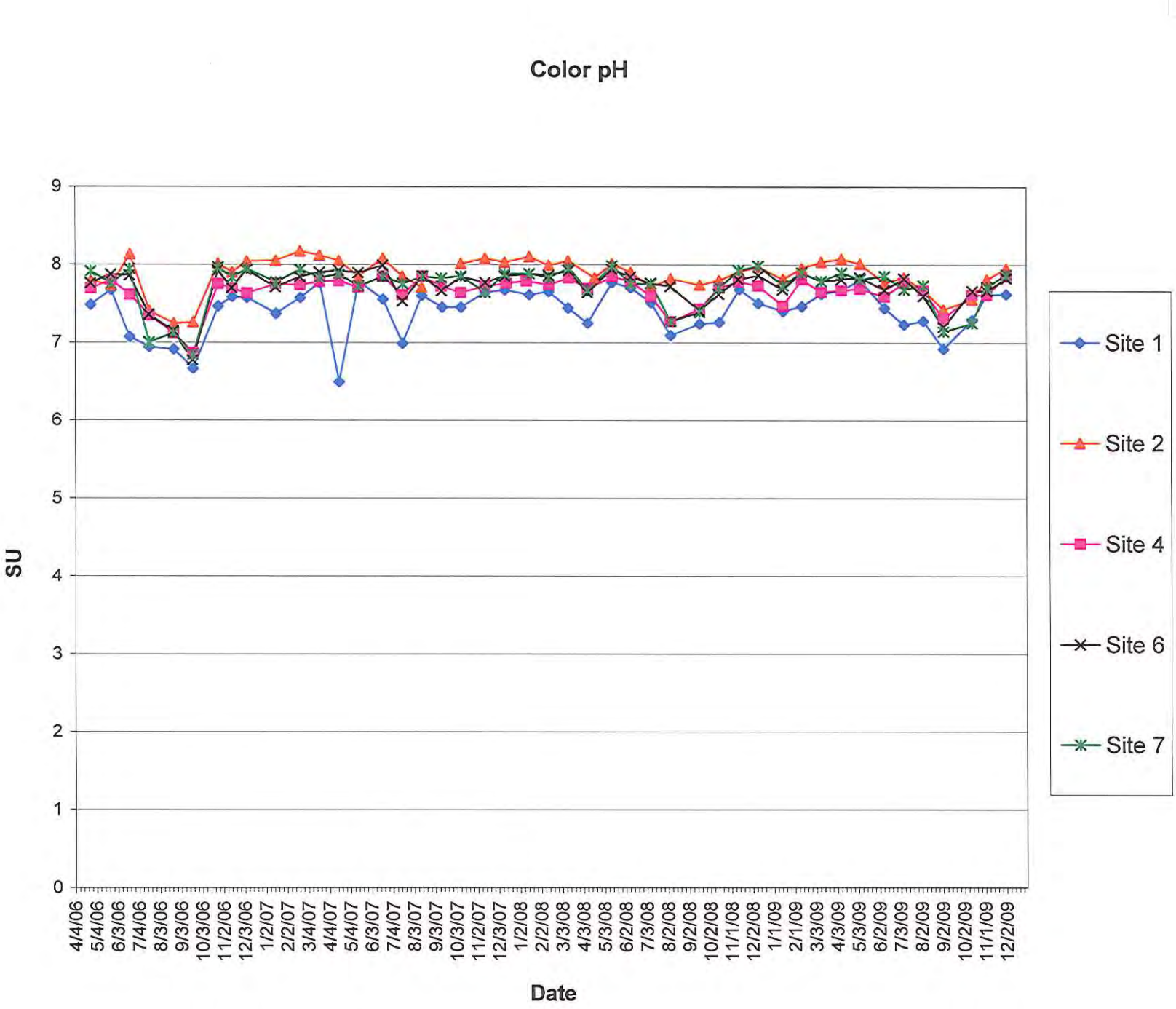
7/3/09
8/2/09
9/2/09
10/2/09
11/1/09
12/2/09
Date
Site 1
Site 2
Site 4
Site 6
Site 7

Color Apparent




Color pH
SU
Date
Site 1
Site 2
Site 4
Site 6
Site 7
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1
2
3
4
5
6
7
8
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5/4/06
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5/3/09
6/2/09
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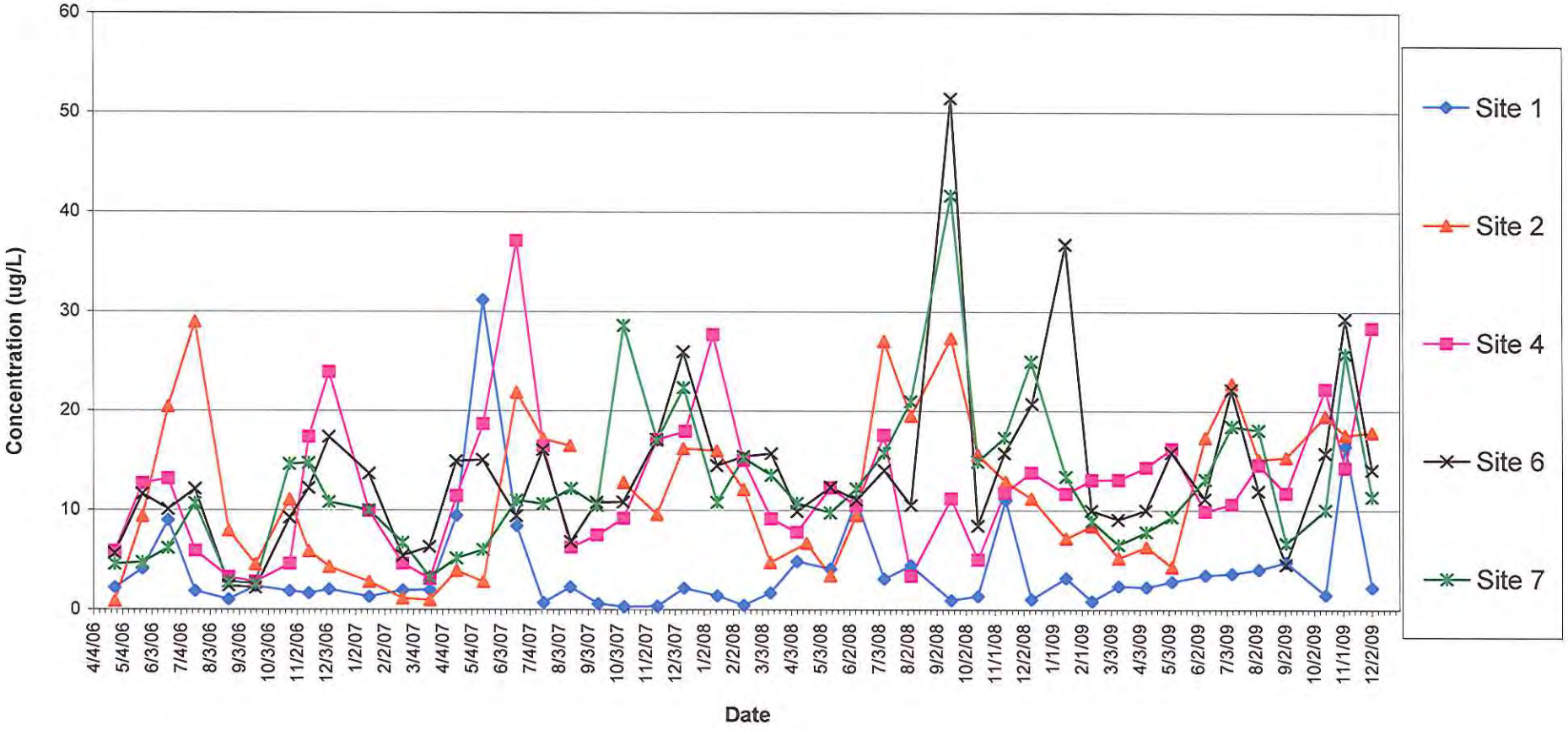
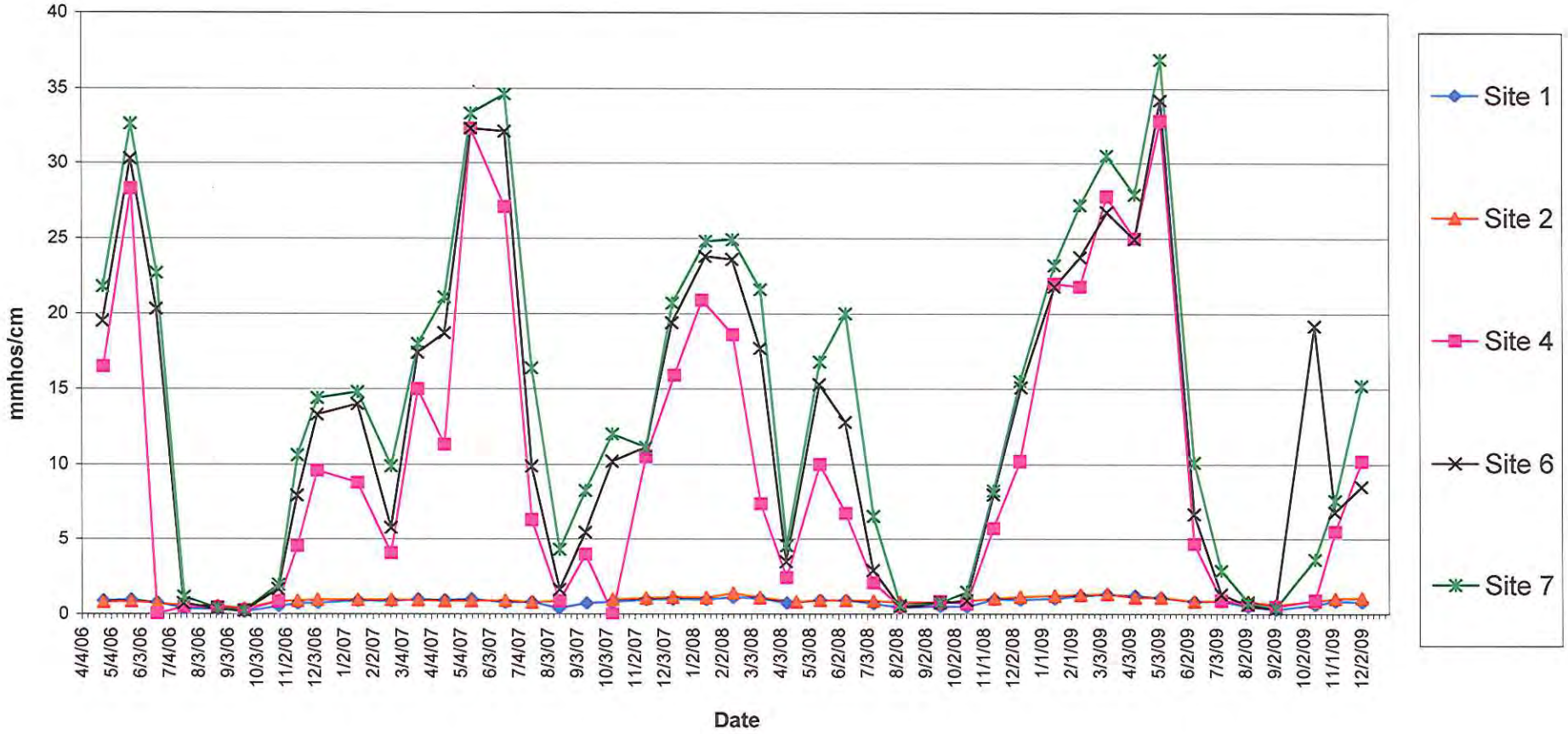
9/2/09
10/2/09
11/1/09
12/2/09

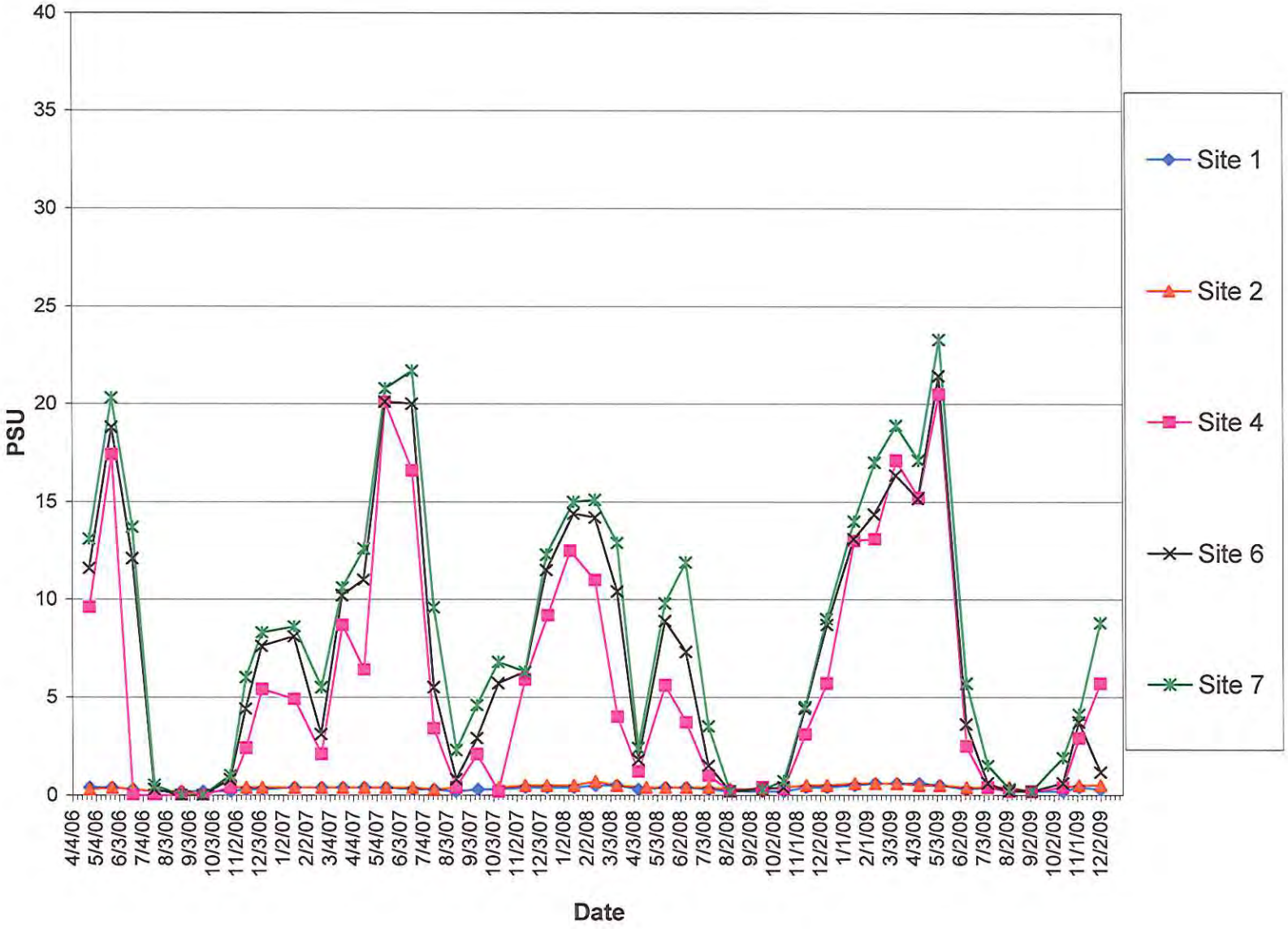
Chlorophyll a - Pheo Corrected



Specific Conductance



Salinity - Lab



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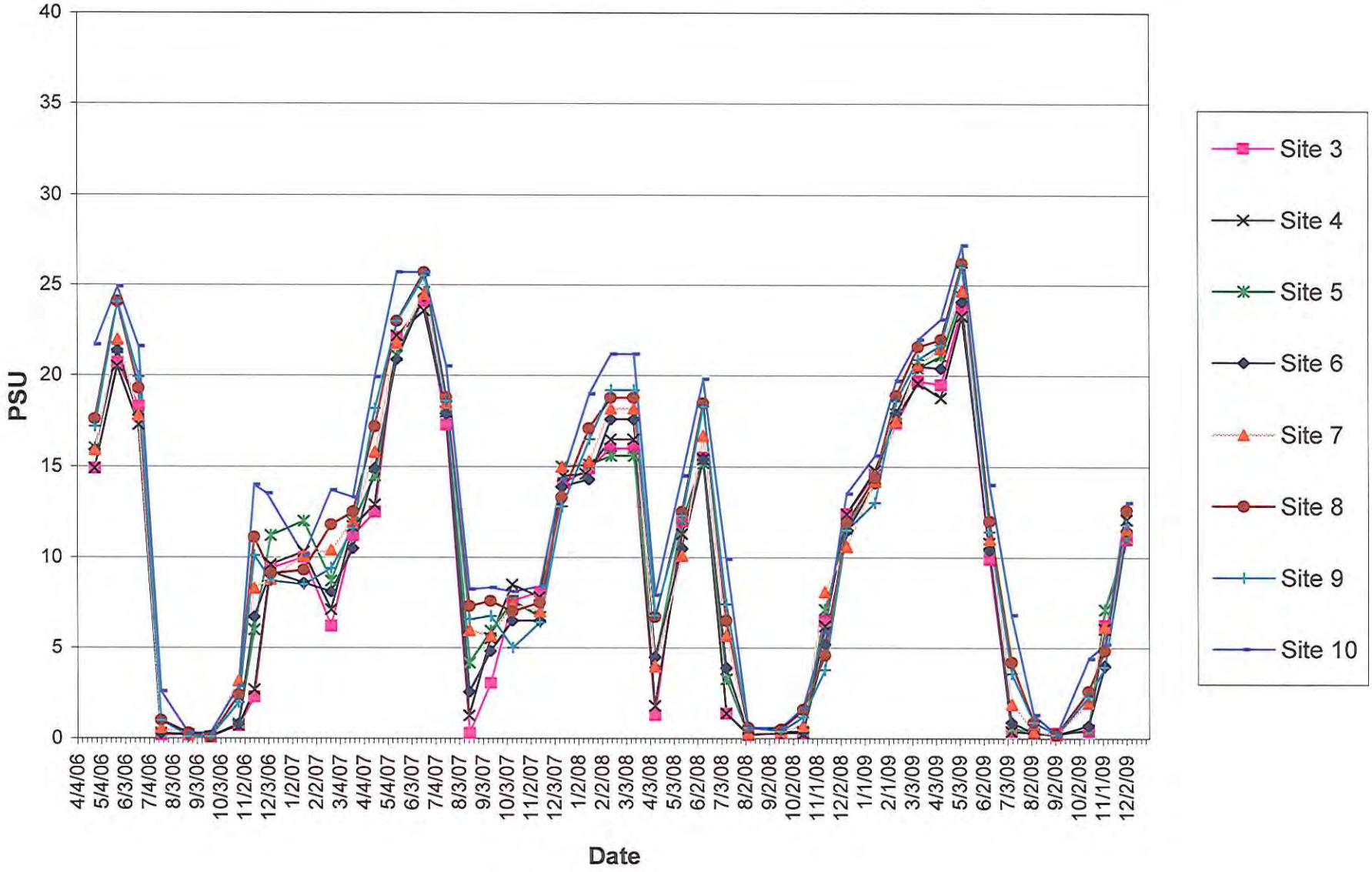

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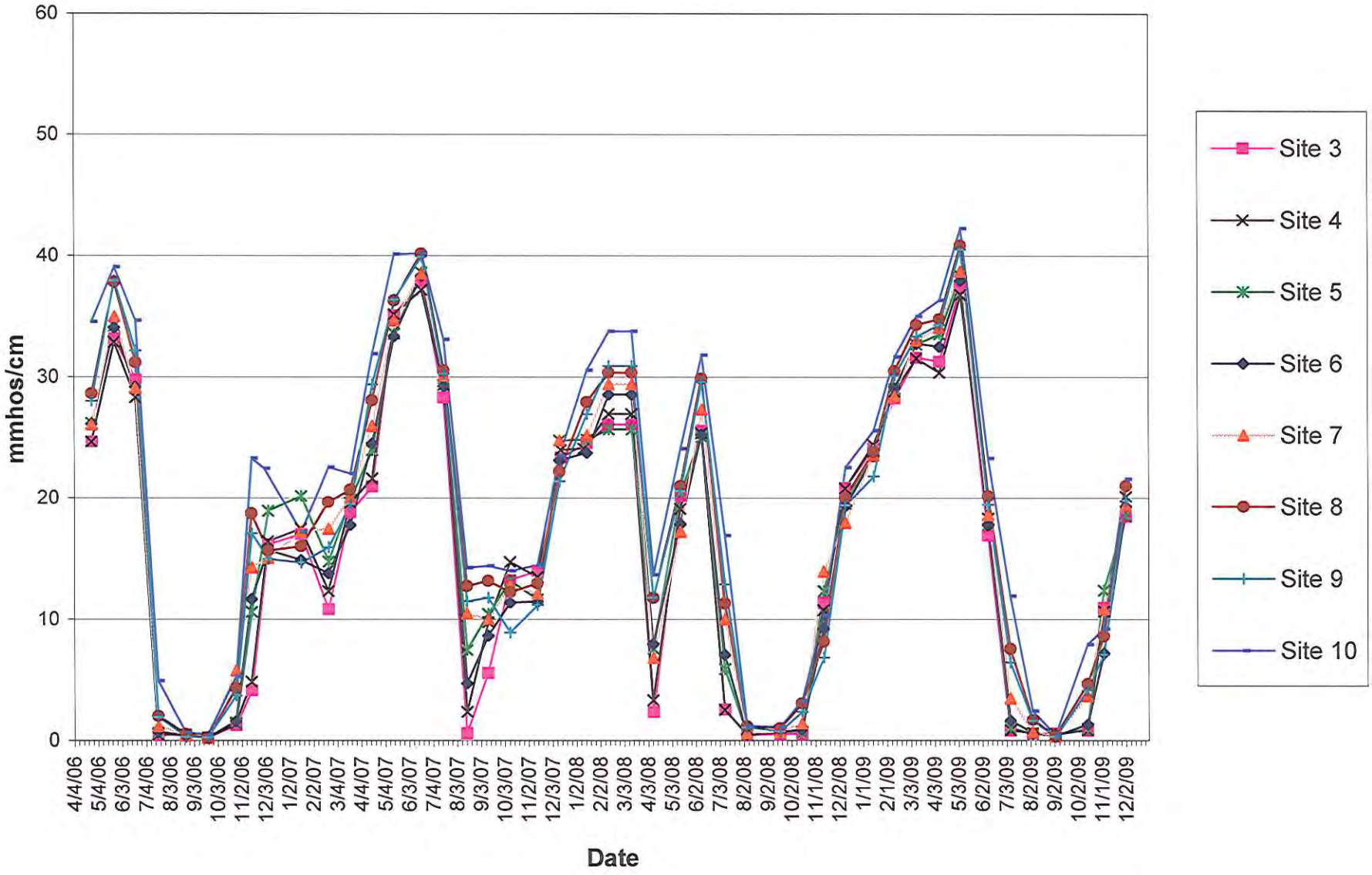

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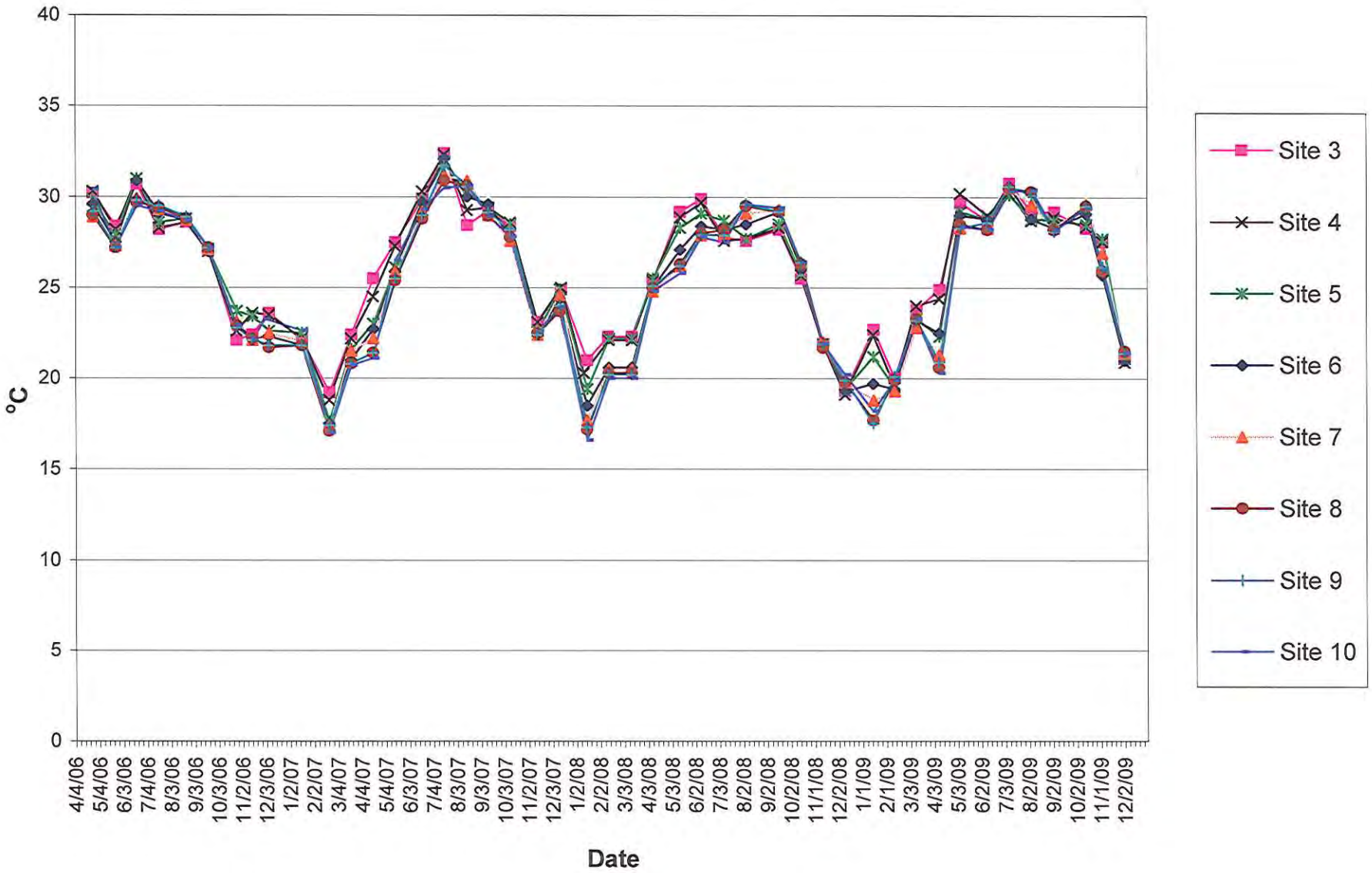
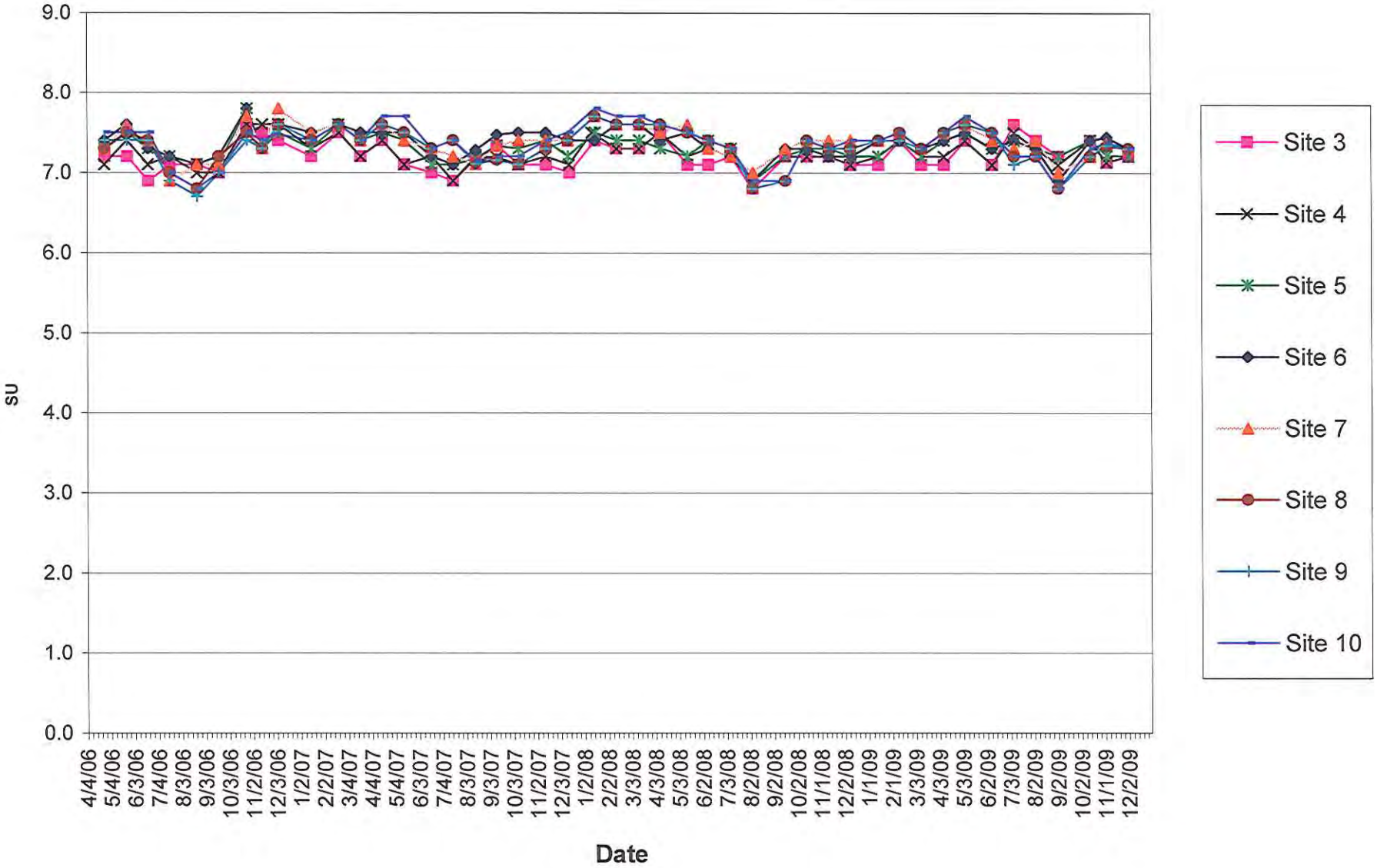


Field pH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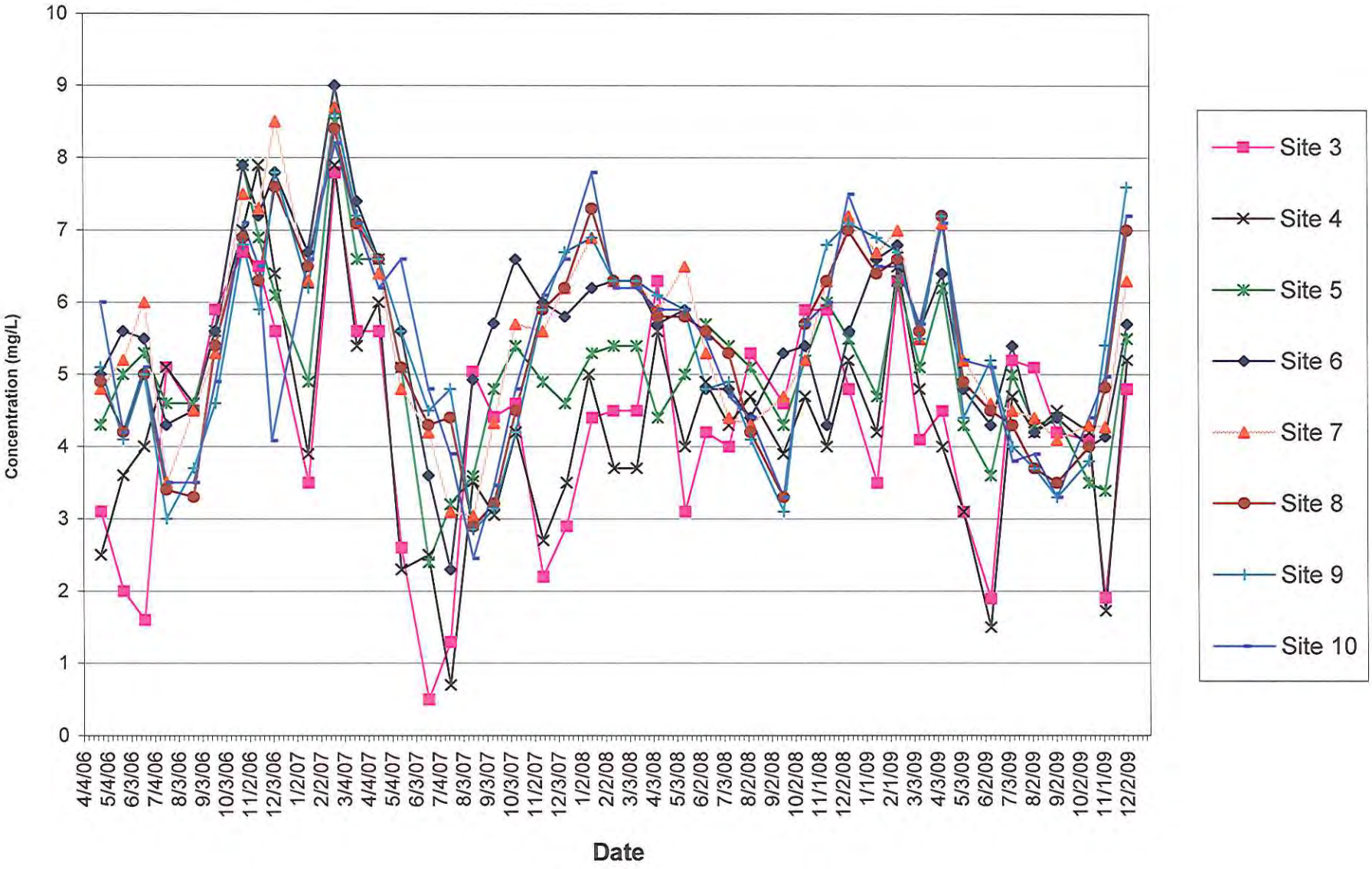
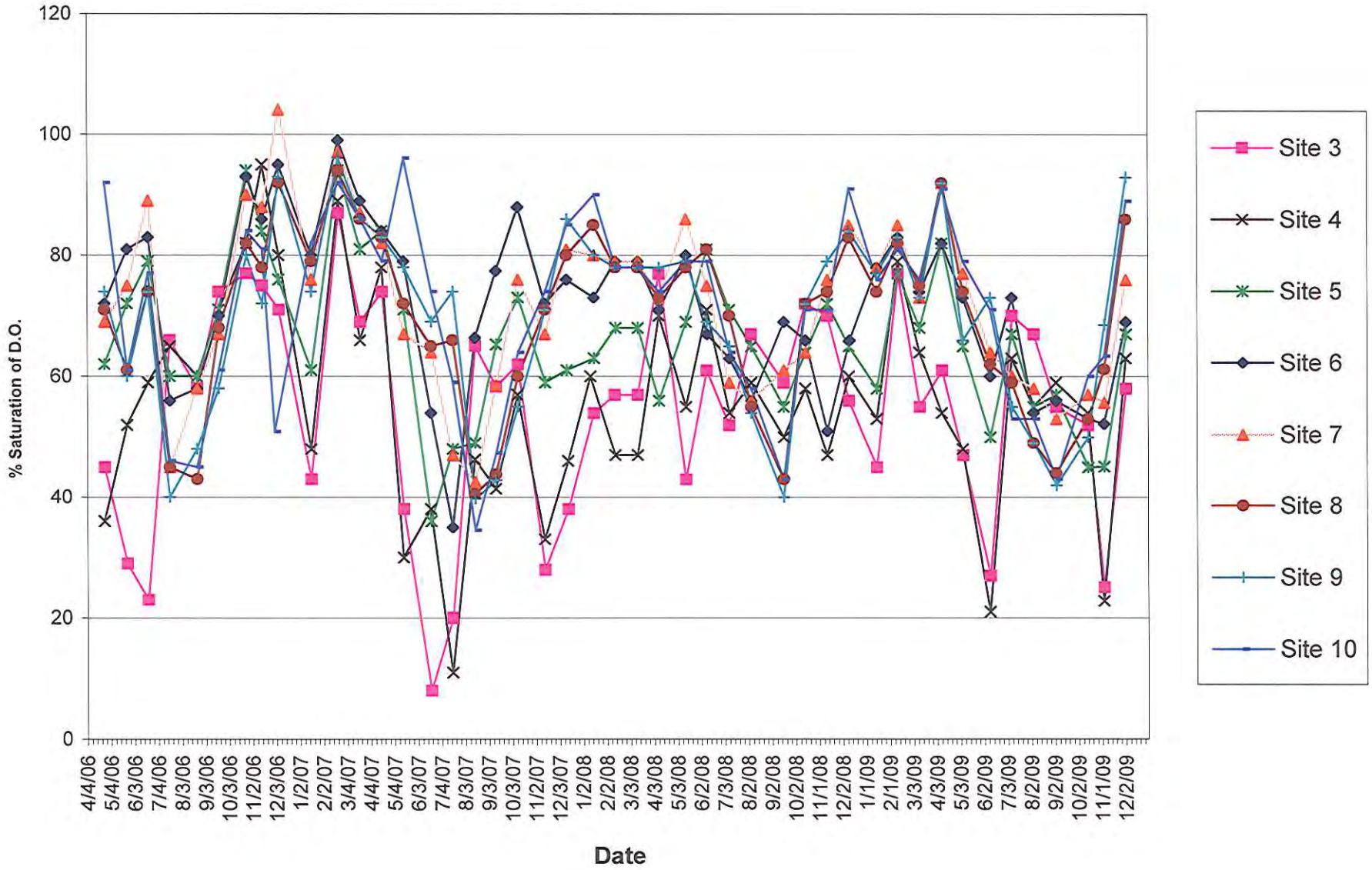
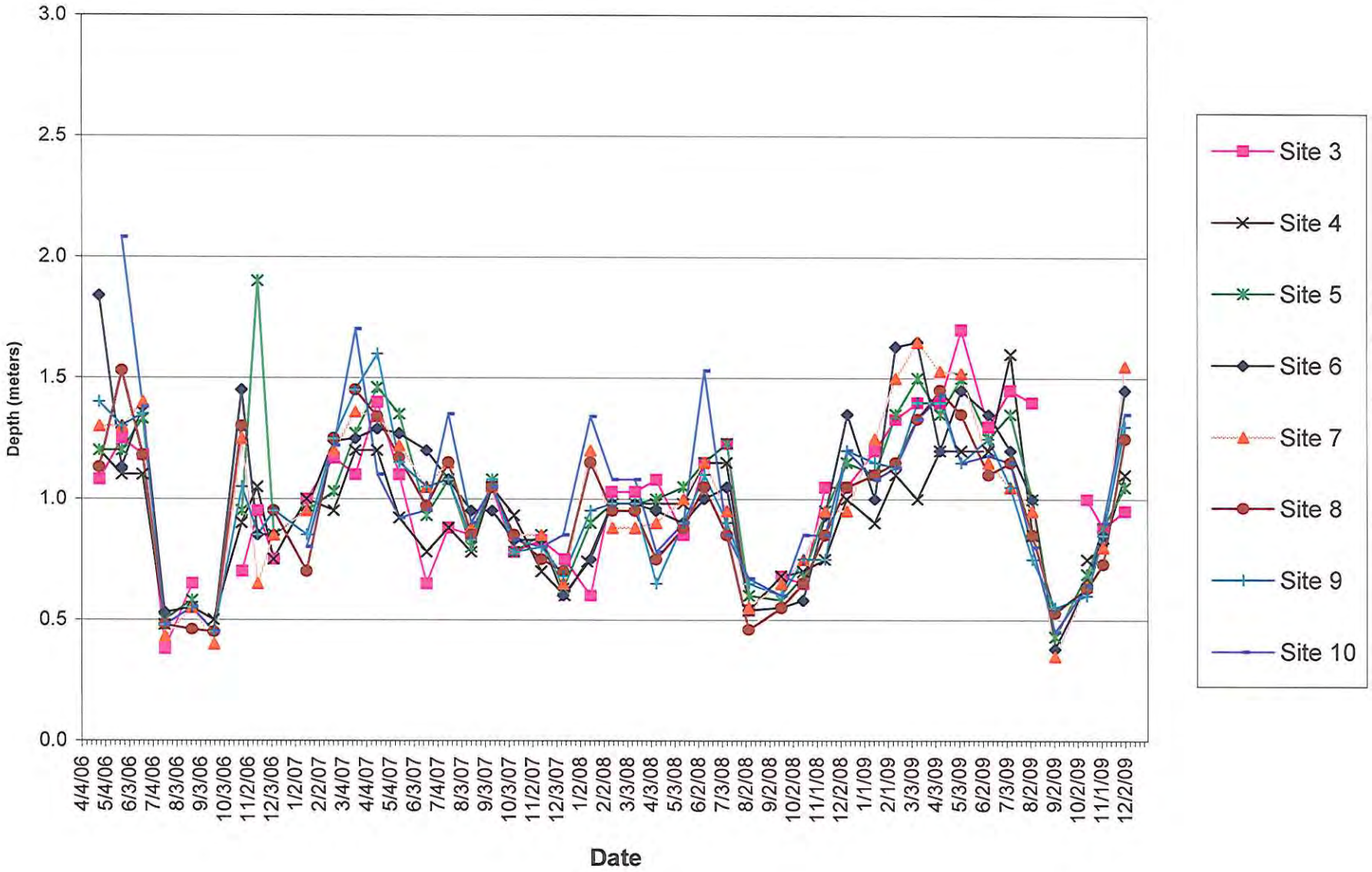
Field Dissolved Oxygen



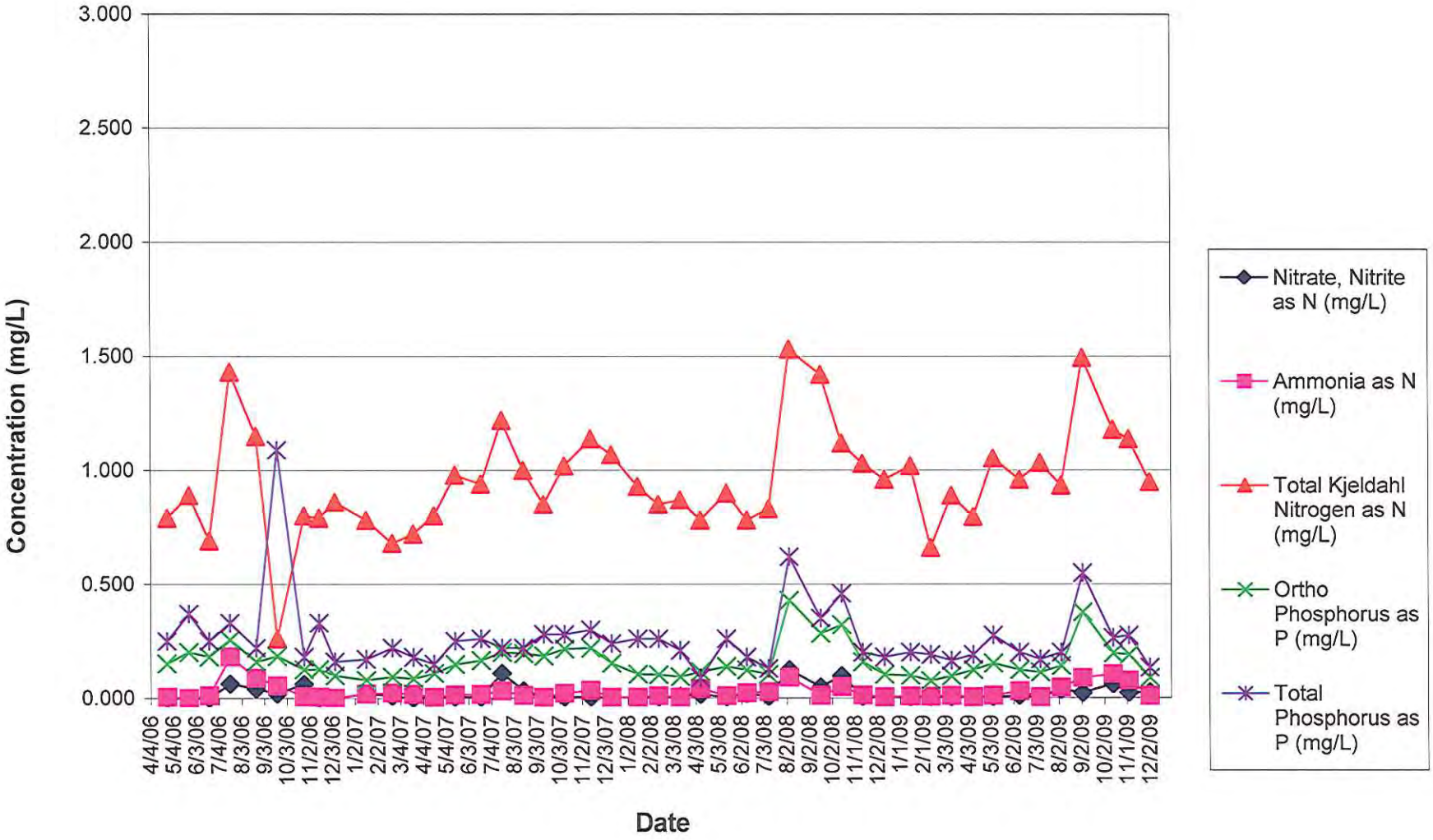
Percent Saturation of D.O.



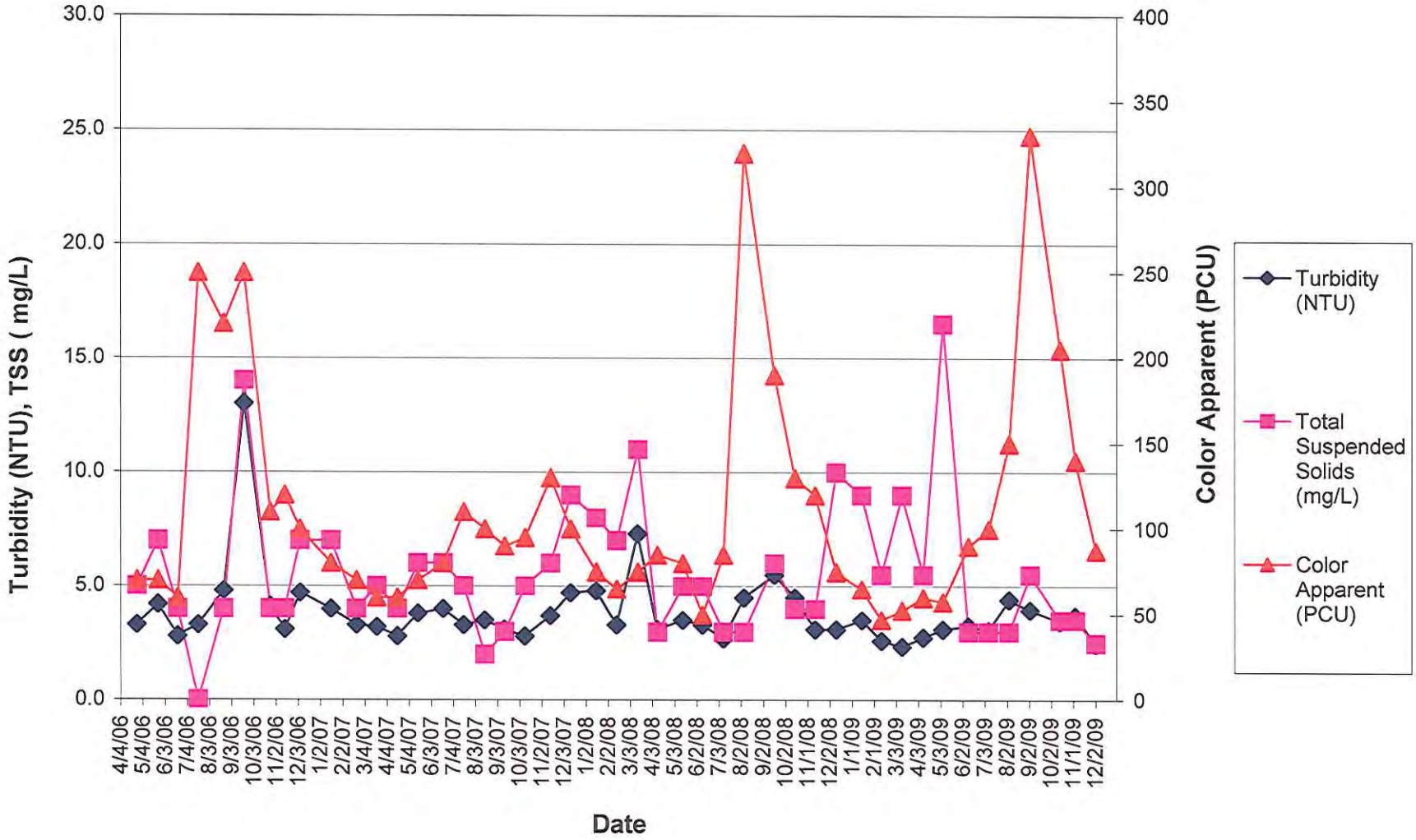
Secchi Depth



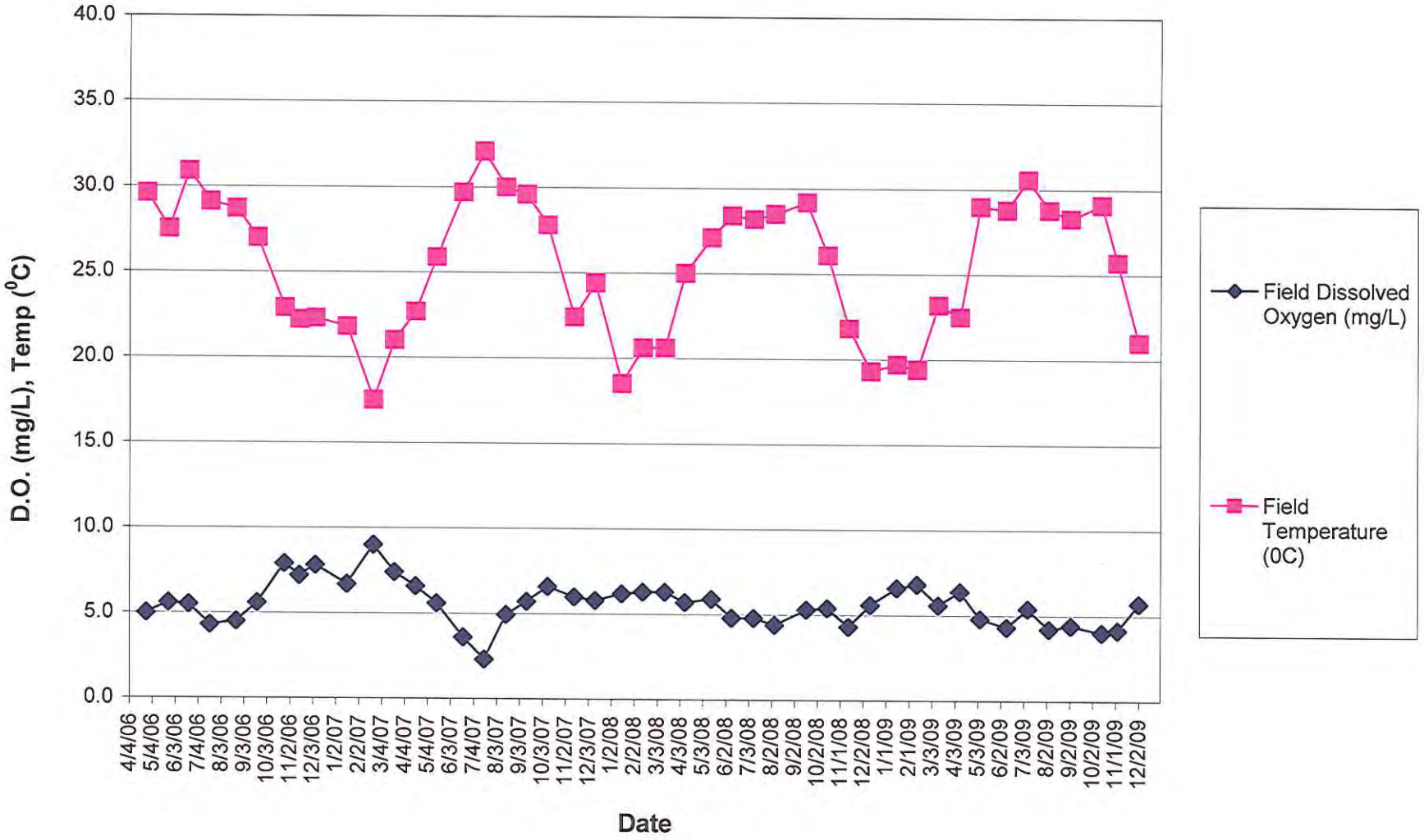
Site 6 Nutrients



Site 6 Turbidity, TSS, Color



Site 6 Field D.O., Field Temp.



APPENDIX C

Summary of Current Local Code Review Activity

Summary of Current Local Code Review Activity

Over the last two years, the City of North Port has been drafting a complete revision of the Unified Land Development Code (ULDC) which included stormwater regulations. In the existing ULDC, the stormwater regulations were spread over multiple Chapters 5-8, 14-11, 14-14 , 37-25 (see Appendix C-1). In the new draft ULDC, all details of the stormwater system design is consolidated into one new Chapter 18 (see Appendix C-2).

In the new Chapter 18 the following scheme is used to show changes:

- Strike through indicate deleted sections and underline indicate added sections.

- Grey highlighted sections indicate that these sections have been copied and pasted from another section verbatim.

The main changes in the proposed Chapter 18 are aimed at reducing the stormwater impact of new developments and redevelopments on stormwater quality and adverse flooding and encourage the use of Low Impact Designs to the maximum extent practicable.

This City expects to presented this revised ULDC to the City Commission for two readings of the adoption Ordinance on May 17, 2010 and June 14, 2010. At these hearings, all relevant department staff are present and provide responses as need to Commissioner and Public comments. When approved the new ULDC will be effective immediately.

In general, the City follows the SWFMWD requirements on the design of the stormwater management system. The following table summarizes the areas where the City has additional requirements:

SWFMWD Requirements	City of North Port Proposed Requirements	Comments
Water Quality Treatment Volume		
For on-line (dry ponds) off-line systems and effluent filtration and exfiltration systems, SWFWMD requires a treatment volume correspond to 0.5-inch of runoff over the project area.	In the existing ULDC, the City requires a treatment volume correspond to 1-inch of runoff over the project area, regardless of the treatment type. This requirement is unchanged in the proposed ULDC.	The City is unique in that the stormwater runoff within most of the City is collected into the interconnected canals and Myakkahatchee Creek system, which serves as the major source of the City's potable raw water supply. Thus the historically higher level of water quality treatment is reasonable.
Littoral Zone Plants		
SWFWMD does not specify planting of the littoral zone. Any green plant including the prevalent invasive cattails are acceptable	Littoral zone shall be planted with non-invasive aquatic species, with a guaranteed survival rate of at least 85%.	If a littoral zone is not planted, invariably, cattails will take over. This is an invasive plant and is not aesthetically pleasing to most people.
Fountains or Aeration Device		
None Required	Wet detention ponds shall have a fountain or waterfall type of water feature to improve water quality treatment and provide an aesthetic appeal. The aeration device shall have a timer to ensure compliance with State and City water preservation requirements.	Fountain or waterfall type of water feature will provide the benefit of aeration to wet pond which are often stagnant and low in dissolved oxygen in the hot dry months. This anoxic water in the wet pond when flushed by rainfall into downstream water bodies can cause extremely low dissolved oxygen levels which can lead to fish kills.
Stormwater Quantity Level Of Service And Design Criteria for Hydraulic Gradeline analysis		
No specific guidance provided by SWFMWD	Specific guidelines provided for acceptable	These guidelines are similar to Sarasota

	levels of flooding for existing and new streets and developments for specified storm events.	County guidelines and are designed to protect the public, but with flexibility for City to review exceedances on a case by case basis for any adverse effects.
Low Impact Development (LID)		
No Low Impact Development (LID) requirements exist in the current SWFWMD rules. The proposed Statewide Stormwater treatment rule have LID requirements	The design engineer must demonstrate in the stormwater design that LID practices are incorporated to the maximum extent practicable. Examples of LID design practices are to minimize impervious areas, and encourage the use of pervious pavement, green roofs, rain cisterns, reuse of stormwater for irrigation, direct runoff to bioretention/biotreatment vegetated swale areas prior to discharge stormwater pond, Florida Friendly native landscaping, and other surface water quality improvement controls and devices.	In order to protect the limited, valuable natural resources within the City, developments must proceed in a sustainable manner. Sustainable measures such as construction to Florida Green Building Standards, LEED Certification and use of Low Impact Development (LID) designs are encouraged.

APPENDIX C1

Previous ULDC Stormwater Regulations

~~Department shall obtain from records of the Sarasota County landfill an estimate of the landfill's available excess capacity.~~

Sec. 5-~~8~~ 10. Drainage.

A. Adopted level of service. Policy 1.1 of the ~~Drainage~~ Stormwater Element of the City's adopted Comprehensive Plan shall serve as the minimum criteria for determining that adequate capacity exists for drainage facilities impacted by a proposed development. Policy 1.1 states:

(1) Design storm within the City of North Port

(2) 10-year frequency, 5-day duration for existing ditch/canal systems constructed by the General Development Corporation for existing surface water management systems.

(3) 25-year frequency, 24 hour duration pursuant to SWFWMD criteria for permitting new surface water management systems. Upon such time that SWFWMD revises their design storm standards the City shall amend the Comprehensive Plan and adopt those new standards within 6 months of the official action by SWFWMD.

B. Procedures for review of individual development permits. As part of the City's existing development permit review process, all development permit applications are required to meet the more restrictive of the City's Stormwater Regulations given in Chapter 18, and the latest SWFWMD stormwater management permit regulations unless otherwise exempted by SWFWMD itself.

C. Procedures for annual concurrency review.

~~herein, the applicant shall demonstrate to the satisfaction of the Planning and Zoning Advisory Board and City Commission that the proposed earthmoving is specifically adapted and designed for the uses anticipated. The applicant shall also demonstrate that the proposed earthmoving activity and closure plan benefits and complies with the City of North Port Comprehensive Plan, the zoning regulations and other sections of this Unified Land Development Code, and other laws, ordinances and regulations, as applicable.~~

Sec. 14-~~9~~ 7. Use of natural features.

The size, shape and orientation of earthmoving and associated ~~facilities~~ activities shall be designed to logically relate to trees, topography, solar orientation, natural features, and adjacent land uses. All earthmoving shall be designed to maximize the preservation of natural features, listed species, trees, tree masses, unusual rock formations, watercourses and sites which have historical significance, scenic views or similar assets. All earthmoving ~~facilities~~ activities shall be designed to minimize the size of the excavation with respect to the volume of material proposed for excavation so as to conserve land and natural resources.

Sec. 14-~~11~~ 8. Consideration of flood hazards and conservation restricted areas.

Earthmoving ~~facilities~~ activities or portions thereof proposed to be located within any of the City's designated conservation restricted areas, as depicted on the City's Future Land Use Map, or in any designated flood hazard zone, as depicted on the most ~~recent~~ latest FEMA and SWFWMD governing board adopted floodplain maps", shall comply with all applicable City of North Port regulations governing land uses within such areas as set forth in Chapter 9, Conservation/Restricted Overlay Zone Regulations, and Chapter 17, Flood Damage

Prevention Regulations, Chapter 18, Stormwater Regulations of this Unified Land Development Code State and Federal requirements.

Sec. 14-~~12~~ 9. Tree protection and wetland protection.

All proposed earthmoving to be located within the City shall comply, as may be deemed appropriate, with the wetland protection regulations and tree protection regulations set forth in Chapter 49, Wetland Protection Regulations, and Chapter 45, Tree Protection Regulations, of this Unified Land Development Code.

Sec. 14-~~13~~ 10. Land clearing debris.

A. The on-site burying of any land clearing material generated as a result of the earthmoving shall be ~~expressly~~ prohibited, except where the felled trees are mulched in with Sec. 37-23 of these regulations .

B. All land clearing material generated as a result of earthmoving activities shall be removed from the site prior to the completion of earthmoving activities and the final Closure Plan.

C. Land clearing debris may be burned in accordance with § 33-9D(1)(e).

Sec. 14-~~14~~ 11. Stormwater management standards.

A. General provisions. A complete stormwater management system shall be provided for the adequate control of stormwater runoff and water quality treatment that originates within the earthmoving ~~facility~~ site and development parcel that flows onto or across the property from adjacent lands. Said stormwater

Prevention Regulations, Chapter 18, Stormwater Regulations of this Unified Land Development Code State and Federal requirements.

Sec. 14-~~12~~ 9. Tree protection and wetland protection.

All proposed earthmoving to be located within the City shall comply, as may be deemed appropriate, with the wetland protection regulations and tree protection regulations set forth in Chapter 49, Wetland Protection Regulations, and Chapter 45, Tree Protection Regulations, of this Unified Land Development Code.

Sec. 14-~~13~~ 10. Land clearing debris.

A. The on-site burying of any land clearing material generated as a result of the earthmoving shall be ~~expressly~~ prohibited, except where the felled trees are mulched in with Sec. 37-23 of these regulations .

B. All land clearing material generated as a result of earthmoving activities shall be removed from the site prior to the completion of earthmoving activities and the final Closure Plan.

C. Land clearing debris may be burned in accordance with § 33-9D(1)(e).

Sec. 14-~~14~~ 11. Stormwater management standards.

A. General provisions. A complete stormwater management system shall be provided for the adequate control of stormwater runoff and water quality treatment that originates within the earthmoving ~~facility~~ site and development parcel that flows onto or across the property from adjacent lands. Said stormwater

management system shall be ~~designated~~ designed in accordance with ~~accepted engineering principles~~ the standards given in Chapter 18.

~~B. Relationship to Comprehensive Plan. The stormwater management regulations in this chapter implement the objectives and policies set forth in the Drainage Element and the conservation and Coastal Zone Management Elements of the City's adopted Comprehensive Plan.~~

~~C~~ B. Relationship to other stormwater management requirements. In addition to meeting the requirements of this chapter, the design and performance of all stormwater management systems shall comply with applicable state regulations or rules of the Southwest Florida Water Management District (SWFWMD). In all cases, the strictest of the applicable standards shall apply.

~~D~~ C. Performance standards. All earthmoving facilities must be designed, constructed and maintained to meet the following standards:

(1) While earthmoving activity is underway and after it is completed, the characteristics of stormwater runoff shall approximate the rate, volume, quality and timing of stormwater runoff that occurred under the site's natural unimproved or existing state, except that the first inch of stormwater runoff shall be treated in a retention/detention system or according to other best management practices as described elsewhere in this chapter.

(2) The proposed earthmoving activity shall not violate the water quality standards as set forth in Chapter 17-3, Florida Administrative Code.

~~E~~ D. Design standards. To comply with the foregoing performance standards, the proposed stormwater management system shall conform to the following design standards:

(1) Detention and retention systems shall be in compliance with Chapter 18. ~~designed to accommodate storm events of at least a twenty-four-hour duration and twenty-five-year frequency.~~

(2) To the maximum extent practicable, natural systems shall be used to accommodate stormwater.

(3) The proposed stormwater management system shall be designed to accommodate the stormwater that originates within the earthmoving development parcel and stormwater that flows onto or across the earthmoving development parcel from adjacent lands.

(4) The proposed stormwater management system shall be designed to function properly for the life of the system.

(5) A professional engineer registered in the State of Florida shall certify the design and construction of the proposed stormwater management system as meeting the requirements of this chapter.

(6) No surface water may be channeled or directed into a sanitary sewer.

(7) The proposed stormwater management system shall be compatible with the stormwater management facilities on surrounding properties or streets, taking into account the possibility that substandard systems may be improved in the future.

~~City; however, the property owner shall maintain all surrounding landscape which shall be kept in good condition at all times.~~

Sec. 37-~~23~~ 22. Tree protection and landscaping standards.

All proposed subdivisions to be located within the City shall comply with the landscaping and tree protection regulations set forth in Chapter 21, Landscaping Regulations, and Chapter 45, Tree Protection Regulations, of this Unified Land Development Code.

Sec. 37-~~24~~ 23. Land clearing debris.

A. The on-site burying of any land clearing material generated as a result of the development of a subdivision shall be expressly prohibited.

B. Trees that are felled in the process of land clearing, may be mulched and spread over the site, but shall not be buried in bulk. The mulched material may not be used to build a berm.

C. Land clearing debris in any form may not be used for a business operation from the project site.

D. All land clearing material generated as a result of development, except as referenced in B above, of a subdivision shall be removed from the site within 30 days of completion of all subdivision work.

E. Land clearing debris may be burned in accordance with § 33-~~8~~ 7(D)(1)(e).

Sec. 37-~~25~~ 24. Stormwater management standards.

A. General provisions. A complete stormwater management system shall be provided for the adequate control of stormwater runoff and water quality treatment that originates within the development or that flows onto or across the development from adjacent lands. Said stormwater management system shall be designed in accordance with ~~accepted engineering principles~~ the standards given in Chapter 18.

~~B. Relationship to Comprehensive Plan. The stormwater management regulations in this chapter implement the objectives and policies set forth in the Drainage Element and the Conservation and Coastal Zone Management Elements of the City's adopted Comprehensive Plan.~~

~~C. Relationship to other stormwater management requirements. In addition to meeting the requirements of this chapter, the design and performance of all stormwater management systems shall comply with applicable state regulations or rules of the Southwest Florida Water Management District. In all cases, the strictest of the applicable standards shall apply.~~

~~D. Exemptions. The following development activities are exempt from these stormwater management requirements, except that steps to control erosion and sedimentation must be taken for all development.~~

~~(1) The construction of a single-family or duplex residential unit and accessory structures on a single parcel of land.~~

~~(2) Any development within a subdivision if each of the following conditions has been met:~~

APPENDIX C2

New ULDC Chapter 18 Stormwater Regulations

Chapter 18 STORMWATER REGULATIONS

[HISTORY: Adopted by the City Commission of the City of North Port:]

GENERAL REFERENCES

Conservation/Restricted Overlay Zone regulations - See Ch. 9.
Dredge and fill regulations - See Ch. 13.
Flood damage prevention regulations - See Ch. 17.
Landscaping regulations - See Ch. 21.
Site and development plan regulations - See Ch. 33.
Subdivision regulations - See Ch. 37.
Tree protection regulations - See Ch. 45.
Wetlands protection regulations - See Ch. 49.
Archaeological resource protection - See Ch. 58.

Sec. 18-11. Interpretations.

Sec. 18-12. Conflicts.

Sec. 18-13. Appeals.

Sec. 18-14. Severability.

Sec. 18-1. Title.

This chapter shall be known and may be cited as the "Stormwater Regulations" of the City of North Port, Florida.

Sec. 18-2. Findings.

A. It is important to ensure that stormwater management activities for site development are conducted in a manner that promotes public health, safety, and welfare.

B. Without appropriate stormwater regulations, site development activities may cause adverse impacts to watersheds, drainage patterns, native habitats, water quality, land use compatibility, historical resources, and roads.

(1) The City of North Port adopts these stormwater regulations to protect public health, safety, and general welfare.

Sec. 18-3. Intent.

It is the intent of these stormwater regulations to preserve, protect, and improve the public health, safety, comfort, good order, appearance and general welfare, and to conserve and to protect the natural resources within City of North Port while promoting opportunities for responsible development.

Sec. 18-4. Relationship to state and federal regulations, comprehensive plan

Before any site development is to begin, appropriate state and/or federal permits shall be obtained, when necessary, and presented to the City. In the case where a state and/or federal permits are not necessary, a copy of an exemption letter or other authorization shall be presented to the City. The project must also be in compliance with the City's Comprehensive Plan.

Sec. 18-5. Applicability.

A. General provisions. A complete stormwater management system shall be provided for the adequate water quality treatment and control of stormwater runoff that originates within the development ~~or that flows onto or across the development from adjacent lands. Said stormwater management system shall be designed in accordance with accepted engineering principles~~. The design of the stormwater conveyance system shall also divert or bypass off-site run-off from adjacent lands that flows onto or across the development, so as not to adversely affect these adjacent lands.

B. Relationship to Comprehensive Plan. The stormwater management regulations in this chapter implement the objectives and policies set forth in the ~~Drainage~~ Stormwater Element and the Conservation and Coastal Zone Management Elements of the City's adopted Comprehensive Plan.

C. Relationship to other stormwater management requirements. In addition to meeting the requirements of this chapter, the design and performance of all stormwater management systems shall comply with applicable state regulations ~~or~~ to include but not limited to rules of the Southwest Florida Water Management

District (SWFWMD) and Florida Department of Environmental Protection (FDEP). In all cases, the strictest of the applicable standards shall apply.

D. Exemptions. The following development activities are exempt from these stormwater management requirements, except that steps to control erosion and sedimentation must be taken for all development.

(1) The construction of a single-family or duplex residential unit and accessory structures on a single parcel of land.

(2) Any development within a subdivision if each of the following conditions has been met:

(a) Stormwater management provisions for the subdivision were previously approved and remain valid as part of a final plat or development plan.

(b) The development is conducted in accordance with the stormwater management provisions submitted with the final plat or development plan.

(3) Bona fide agricultural activities, including forestry, provided that farming activities are conducted in accordance with the requirements set forth in an approved soil conservation service plan and forestry activities are conducted in accordance with the Silviculture Best Management Practices (BMP)Manual (1979 or latest edition), published by the Florida Division of Forestry. If the conservation plan and forestry BMPs are not implemented accordingly, this exemption shall become void.

(4) Maintenance activity that does not change or affect the quality, rate, volume or location of stormwater flows on the site or of stormwater runoff.

(5) Action taken under emergency conditions to prevent imminent harm or danger to persons or to protect property from imminent fire, violent storms, hurricanes or other hazards. A report of the emergency action shall be made to the City as soon as practicable.

Sec. 18-6. Procedure for securing Stormwater management plan approval.

Prior to the submission of an application, the applicant should discuss with the City Stormwater Manager, City staff, and other agencies such as SWFWMD, FDEP and Army Corp. of Engineers (ACOE) on the requirements of Stormwater regulations.

Sec. 18-7. Submission requirements for Stormwater management systems.

Besides the submission requirements under Chapter 33, following are additional submission requirements that should be provided for the stormwater management system review prior to issuance of a Development Order (DO). A stormwater design submittal checklist is available on the City website under the Stormwater Division to facilitate submittal of a complete package. Applicant shall complete and submit with the application package, the latest checklist from the City's website. This checklist will be revised on an as-needed basis.

A. Approved state permits, e.g. SWFWMD or FDEP, Environmental Resource Permit (ERP), and SWFWMD approved stamped plans – two hard copies.

B. Color Aerial and Legible Boundary and Topographic Survey – two legible hard copies. This survey must be performed within one (1) year from the application date and signed and sealed by a Florida registered Land Surveyor. If there are

any topographic changes within this one (1) year time period, a more recent topographic survey shall be required.

(1) Include sufficient on-site topographic elevations and contour lines to facilitate interpretation of direction of Stormwater flow. Include sufficient off-site topographic elevations to show all off-site stormwater flow onto project site. Clearly indicate the vertical datum (NGVD29 or NAVD88) used.

(2) Provide the Big Slough Watershed floodplain map that is considered by SWFWMD as the most appropriate information available for floodplain impact and compensation analysis. Include the 100-year flood elevations and footprint. Clearly indicate the vertical datum (NGVD29 or NAVD88) used.

(3) Include a benchmark. Clearly indicate the vertical datum (NGVD29 or NAVD88) used.

C. Soil conservation service (SCS) soils survey map or soil boring analysis report to support the selection of the seasonal high water elevation (SHWE) used in the design - two legible hard copies.

D. Stormwater Design Plans - Digital copy of the proposed construction plans in AutoCAD and PDF format - one CD copy. See number of hard copies of plans required under Chapter 33. The plans must be signed and sealed by a Florida Licensed Professional Engineer.

(1) Paving grading and Drainage Plans :

(a) Sufficient proposed elevations, cross sections and details should be provided to show how flow is directed to the Stormwater management system. Clearly indicate the vertical datum (NGVD29 or NAVD88) used.

(b) All off-site flows onto proposed project areas must be diverted so as not to cause adverse off-site impacts.

(c) All required drainage and maintenance easements must be clearly shown.

(d) The proposed pervious and impervious area and total project area must be included in the plans with the corresponding curve numbers. The amount of impervious area shall be minimized to the maximum extent practicable. The proposed pervious and impervious area and corresponding curve number information shall also be supplied on the plans for each future outparcel served by the proposed master stormwater systems.

(e) Provide pond contour lines, cross sections and labels corresponding to the pond bottom, change in slope, lower end of the littoral zone, upper end of the littoral zone, control water elevation (CWE), ~~25-year 24-hour storm event~~ design high water elevation (DHWE) and top of berm. Six (6) inches of freeboard is recommended between the DHWE and the top of bank.

(f) Legible water control structure details and skimmer to show the bottom of skimmer to be a minimum of 4-inch below the control water elevation and the top to be equal or higher than the ~~25-year 24-hr~~ DHWE.

(i) A concrete pad shall be provided below the skimmer to prevent vegetation from growing up through the skimmer.

(ii) Sufficient clearance shall be maintained between this concrete pad and the skimmer bottom to avoid flow restriction.

(g) Cross sections of all ponds, swales and channels proposed. Check that slopes are no steeper than 4:1 (horizontal to vertical).

(h) Typical lot grading plan for residential subdivisions.

(i) Littoral zone planting plan listing non-invasive aquatic species, and showing spacing of plants with guaranteed survival rate of at least 85%.

(j) Fountain or aeration device for wet ponds with deep pool.

(k) Evaluate and apply to the maximum extent practicable, low impact development (LID) design concepts including stormwater reuse for irrigation.

(2) Best Management Plans (BMPs) and National Pollutant Discharge Elimination System (NPDES) surface water pollution prevention plan (SWPPP)

(a) Show the location and details of the erosion, sediment and turbidity control measures such as silt fence around the construction area, and silt fence around each inlet structure to be implemented during each phase of construction.

(b) Include notes on how turbidity in stormwater runoff will be monitored and corrective actions needed if turbidity level is higher than 29 NTUs above background.

(c) Provide at the preconstruction meeting one hard copy of any required NPDES SWPPP and Notice of Intent (NOI).

(3) Dewatering Plans.

(a) Show the location of the dewatering sites, the dewatering pump, sediment sump, methods to retain or detain discharge, methods of isolating the dewatering areas, flow path and points of discharge of the water and the duration of the dewatering.

(b) A sectional detail of the dewatering pump should be provided to include the dewatering pump (include pump rate in cfs on the plans), sediment sump (include dimensions), piping, temporary berm, and turbidity barriers.

(c) Provide calculations supporting the dimension of the sediment sumps, and the capacity of the sediment pumps.

(4) Floodplain Impact and Compensation.

(a) The footprint area of 100-year floodplain impact and floodplain compensation provided shall be clearly shown on the plans, together with representative cross sections.

E. Drainage Treatment and Attenuation Analysis - two hard copies signed and sealed by a Florida Licensed Professional Engineer. Provide also one CD copy of the input and output data of any hydraulic model or spreadsheet analysis used.

(1) Include legible pre-development and post-development basin maps with corresponding acreages, curve numbers (CN), flow arrows showing connectivity and time of concentration (Tc) overlaid on existing and proposed conditions topographic elevations.

(2) Provide attenuation analysis - Hydraulic modeling using software such as Interconnected Pond Routing (ICPR) or CHAN software is preferred. Spreadsheet attenuation calculations using the Rational Method is also acceptable for drainage areas 10 acres or less.

(3) Include the printout of the node/reach schematic diagram and input and output data of the Pre-development and Post-development hydraulic model if used, including a printout of the peak discharge rate and the hourly flows from all discharge points leaving the project site.

(4) If the Rational Method is used (for project area 10 acres or less), provide the spreadsheet attenuation calculations for the design storm event. Outflow may not commence until the first inch has accumulated in the retention area. To compensate for the fact that flow out of the pond does not begin to flow in the initial 10 minutes, the critical pond volume for attenuation must be increased by 20 percent.

(5) Provide Tc calculations using TR-55 methodology or equivalent.

(6) Provide table summary of proposed pervious and impervious areas for each drainage basin and corresponding CN and Tc for the pre-development and post-development conditions.

(7) Provide tabular summary of elevation/area/volume data for each Stormwater pond at the following elevations - pond bottom, change in slope, lower end of the littoral zone, upper end of the littoral zone, control water elevation (CWE), ~~25-year 24-hour storm event~~ design high water elevation (DHWE) and top of berm.

(8) Provide treatment calculations based on one-inch of runoff over the entire project area and recovery of treatment volume analysis.

(9) Provide calculations supporting size of drawdown orifice or weir notch if applicable.

(10) Provide floodplain impact and compensation analysis based on 100-year flood elevation in compliance with SWFWMD requirements.

F. Operation and Maintenance (O&M) Plan - two hard copies.

(1) Provide an O&M plan that includes a schedule of maintenance and inspection, and details on how to rehabilitate or retrofit the system if the system does not function as designed.

(2) O&M Plan must be signed by the owner accepting the responsibility to adhere to the plan.

G. Prior to issuance of a Certificate of Occupancy (CO), the following shall be submitted:

(1) Complete set of as-built site and stormwater plans, signed and sealed by a Florida Licensed Professional Engineer. Any deviations shall be clearly marked and approved by the City prior to issuance of a CO - two hard copies.

(2) Digital copy of the as-built plans in AutoCAD and PDF format together with a signed and seal written certification by a Florida License Professional Engineer of Record that the digital files are a complete set that correlates to the hard copy of the submitted as-built plans - one CD copy.

(3) Approval from SWFWMD to transfer the surface water management system into operation - two hard copies.

Sec. 18-8. Flood hazard areas, conservation restricted areas and floodplain encroachment

Site development proposed to be located within any of the City's designated conservation restricted areas, as depicted on the City's Future Land Use Map, or in any designated flood hazard area, shall comply with all applicable regulations governing land use within such areas as set forth in Chapter 9, Conservation/Restricted Overlay Zone Regulations, and Chapter 17, Flood Damage Prevention Regulations, of this Unified Land Development Code.

Sec. 18-9. Tree protection and wetland protection.

All proposed Stormwater management systems to be located within the City shall comply, as may be deemed appropriate, with the wetland protection regulations and tree protection regulations set forth in Chapter 49, Wetland Protection Regulations, and Chapter 45, Tree Protection Regulations, of this Unified Land Development Code.

Sec. 18-10. Stormwater management standards.

A. Performance standards. All developments must be designed, constructed and maintained to meet the following standards:

(1) While development activity is underway and after it is completed, the characteristics of stormwater runoff shall approximate the rate, volume, quality and timing of stormwater runoff that occurred under the site's natural unimproved or existing state. ~~, except that~~ The first inch of stormwater runoff shall be treated in all stormwater management systems ~~a~~ (retention/detention systems) ~~or according to other best management practices as described elsewhere in this chapter.~~

(2) The proposed development and development activity shall not violate the water quality standards as set forth in ~~Chapter 17-3, Florida Administrative Code~~ Chapters 62-4, 62-302, 62-520, 62-522 and 62-550, F.A.C., including any antidegradation provisions of paragraphs 62-4.242(1)(a) and (b), subsections 62-4.242(2) and (3), and Rule 62-302.300, F.A.C. The surface water management facilities shall also comply with the requirements of the Statewide Stormwater Treatment Rule upon its adoption by SWFWMD and FDEP.

B. Design standards. To comply with the foregoing performance standards, the proposed stormwater management system shall conform to the following design standards:

(1) ~~Detention and retention systems shall be designed to accommodate storm events of at least a twenty-four-hour duration and twenty-five-year frequency~~ All stormwater management systems shall be designed to meet the SWFWMD ERP rules with the following **additional** requirements:

(a) The water quality treatment volume for all types of stormwater treatment systems shall correspond to **one-inch** of runoff over the entire project area (including the pond area).

(i) The water quality treatment volume in a wet pond system shall be recovered per SWFMWD criteria.

(ii) The water quality treatment volume in a dry pond system shall be recovered through percolation within 72 hours. However, only that volume which can again be available within 36 hours can be counted as part of the volume required for water quantity storage.

(iii) The water quality treatment volume in an effluent filtration system shall again be available within 36 hours. The treatment volume can be counted as part of the volume required for water quantity storage.

(iv) The water quality treatment volume in underground exfiltration systems shall again be available within 72 hours. Due to the maintenance requirements and life expectancy of

exfiltration systems, the treatment volume cannot be counted as part of the volume required for water quantity storage.

(b) All new developments shall include ~~provide~~ a surface water management system ~~to attenuate for the 25-year 24-hour storm event~~ that provides attenuation per SWFWMD criteria. The post-development peak discharge rate must not exceed the pre-development peak discharge rate for the ~~25-year 24-hour~~ design storm event per SWFWMD criteria. ~~Projects that qualify for a SWFWMD Minor Surface Water Management Systems ERP permit under 40D-40.301, F.A.C., shall also provide attenuation for the 25-year 24-hour storm event. The only exception to the attenuation requirement is for small projects that are 9,000 square feet or less in impervious area that qualify for a SWFWMD Noticed General ERP permit under 40D-400.475, F.A.C.~~ No discharge from any stormwater management facility shall cause adverse increases in on-site or off-site flood levels.

(c) Six inches of freeboard is recommended between the ~~25-year 24-hour storm event~~ design high water elevation and the top of bank in the stormwater ponds. The top of berm width shall be sufficient for maintenance vehicle access.

(d) The level of service criteria for a surface water management system is given in the following tables:

STORMWATER QUANTITY LEVEL OF SERVICE AND DESIGN CRITERIA

I.	**New Buildings:** The finished floor elevation of all new building structures shall be set above the 100-year flood elevation.
II.	**New Roadways Access:** New roadways shall be designed to be passable during flooding under the following storm events.

	Road Type		Design Storm 24-hr Duration
___	A.	Evacuation	> 100
___	B.	Arterials	100*
___	C.	Collectors	25*
___	D.	Neighborhood	25*
	* For arterials, collectors and neighborhood roads, roadway flooding < 6" depth measured at the outside edge of pavement is considered passable. No flooding is allowed on any portion of an evacuation road.		
III. –	**Existing Roadways Access:** The level of service for improvements to existing roadways may be adjusted from the above criteria, based on existing conditions such as existing road right-of-way area, on-site and adjacent topography, and vehicular use of the roadway.		
IV. –	**New Site Development:** The available stormwater pond attenuation volume for new site developments must be capable of attenuating ~~for a 25-year 24-hour duration storm event~~ per SWFWMD criteria. Within a new development, the stormwater runoff piping and conveyance system hydraulic grade line (HGL) analysis shall be based on a 25-year 24-hour duration storm event and shall not cause any adverse flooding impacts on-site or off-site. Deliberate flooding of a parking area in a 25-year 24-hr storm event is not allowed. The tailwater for the HGL analysis shall be based on the stage in the receiving pond at the time of peak flow. The City Stormwater Manager can allow a greater level of flooding during the peak of a 25-year storm event on a case-by-case basis, if sufficient documentation is provided to show that this level of flooding cannot be avoided, and the flooding can be demonstrated to not adversely impact public health and safety, natural resources or other property. The flood depth and duration of the flooding must be defined in the attenuation analysis, and justification provided to show why public health and safety is not compromised.		

(2) ~~To the maximum extent practicable,~~ Natural systems ~~shall~~ may be used to accommodate stormwater, but a hydroperiod analysis shall be provided to demonstrate no adverse impact to the natural system and the required pretreatment volume shall be provided pursuant to SWFWMD requirements.

(3) The proposed stormwater management system shall be designed to ~~accommodate~~ treat and attenuate the stormwater that originates within the development. ~~And stormwater that flows onto or across the development from adjacent lands~~ The design of the stormwater conveyance system shall also

divert or bypass off-site run-off that flows onto or across the development, from adjacent lands, so as not to adversely affect any adjacent lands.

(4) The proposed stormwater management system shall be designed to function properly for the life of the system.

(5) The design and construction of the proposed stormwater management system shall be certified as meeting the requirements of this chapter by a professional engineer registered in the State of Florida.

(6) No surface water may be channeled or directed into a sanitary sewer.

(7) The proposed stormwater management system shall be ~~compatible with the stormwater management facilities on surrounding properties or streets, taking into account the possibility that substandard systems may be improved in the future.~~ properly maintained by the specified operation and maintenance (O&M) entity. An O&M plan must be submitted to the City for review and approval. If the system is not properly operated and maintained, the City will perform the required O&M functions and lien the property for reimbursement as necessary.

(8) ~~The banks of retention and detention areas shall be sloped at a ratio of no greater than 3 to 1 in order to accommodate and be planted with appropriate vegetation.~~ For purposes of public safety, water quality treatment and maintenance, all ~~retention or detention~~ stormwater management areas shall have stabilized side slopes no steeper than 4:1 (horizontal: vertical).

(a) For wet ponds the 4:1 slope shall be maintained to a depth of two feet below the SHWE elevation. The slopes shall be no greater than 2:1 (horizontal: vertical) thereafter. Due to fluctuations in ground water levels ~~in~~ particularly in the dry season, it is recommended that the 4:1 slope requirement be extended to at least 5 feet below the proposed SHWE in order to avoid steep exposed banks during the dry season and corresponding erosion.

(b) For purposes of public safety, exposed pond side slopes designed steeper than 4:1 will require a six foot chain link fence or other protection sufficient to prevent accidental incursion into the retention or detention area.

(c) In determining the sufficiency of other protection measures, consideration shall be given to the depth and morphometry of the detention or retention area, surrounding land uses, degree of public access, and likelihood of accidental incursion.

(d) For dry ponds, shallow swales and channel, slopes proposed steeper than 4:1 (horizontal to vertical) will require approval by the City ~~Stormwater~~ Manager or designee on a case-by-case basis and no adverse effect to safety and erosion will need to be demonstrated.

(9) Dredging, clearing of vegetation, deepening, widening, straightening, stabilizing or otherwise altering natural surface waters shall be prohibited unless the activity is in compliance with the regulations set forth in Chapter 49, Wetlands Protection Regulations, Chapter 9, Conservation/Restricted Overlay Zone Regulations and Chapter 13, Docks, Seawalls And Other Water Dependent Structures.

(10) Natural surface waters shall not be used as sediment traps during or after development.

(11) For aesthetic reasons and to increase shoreline habitat, the shoreline of retention and detention areas shall be sinuous rather than straight where practical.

(12) Water reuse and conservation shall, to the maximum extent practicable, be achieved by incorporating the stormwater management system into irrigation systems serving the development. The design plans for the stormwater reuse systems shall be submitted and all necessary SWFMWD permits obtained. The development will have to show just cause of why the stormwater management system is not used for irrigation.

(13) A 6-foot low maintenance vegetated buffer zone ~~s of sufficient width~~ is recommended to prevent erosion ~~shall be retained or created~~ and provide water quality treatment along the shores, banks or edges of ~~all natural or man-made~~ surface waters. The required vegetated buffer around a natural wetland is specified under Chapter 49, Wetland Protection Regulations.

(14) In phased developments, the Stormwater management system for each integrated stage of completion shall be capable of functioning independently as required by this chapter. A phasing plan shall be submitted for approval.

(15) All retention and detention facilities, except natural water bodies used for this purpose, shall be accessible for maintenance from streets or public rights-of-way or easements.

(16) ~~Retention and detention areas~~ Stormwater management systems shall not be located in a 100-year floodplain ~~area as delineated on the FEMA/FIRM maps,~~ except as approved by the City Manager or designee and SWFWMD. Any loss of floodplain volume as a result of development within the 100-year floodplain shall be compensated. ~~mitigated elsewhere on the site, the location of which must~~ The method and extent of floodplain compensation requires the approval of ~~be approved by~~ the City's ~~Engineer~~ Stormwater Manager and SWFWMD.

(17) Design requirements with respect to floodplain encroachment and floodplain compensation.

(a) No net encroachment will be allowed into the "fresh water" component of the 100-year floodplain, which will adversely affect either conveyance, storage, water quality or adjacent lands. If the proposed development encroaches into the 100-year floodplain, then floodplain compensating storage shall be equivalently provided between the seasonal high water elevation and the 100-year flood elevation to allow flood water storage function.

(b) The equivalent excavation method of floodplain compensation is the preferred method of floodplain compensation. Supporting calculations shall be submitted to the City for review. The footprint area of floodplain impact and floodplain compensation provided shall be clearly shown on the plans, together with representative cross sections. Detailed floodplain impact and compensation volume calculations shall be provided.

(c) Other methods of floodplain compensation that are acceptable to SWFWMD will be acceptable to the City also. In lieu of the equivalent excavation method of floodplain compensation, the Big Slough Watershed

hydraulic model that is considered by SWFWMD as the most appropriate information available may be used with the proposed development, to demonstrate no adverse impacts on-site or off-site for the 100-year design storm. The analysis using the Big Slough Watershed hydraulic model must show no significant increase in off-site stages. As the Big Slough Watershed hydraulic model is a very detailed and extensive model, to ensure a fair and reasonable analysis, the developer must pay the fees specified in the Fee Ordinance as adopted by the City Commission, in order for the City to retain a consultant to perform this hydraulic analysis using the Big Slough Watershed hydraulic model. Selection of the consultant will be mutually agreeable to both the City and the Developer.

(18) Stormwater discharge facilities which directly discharge to the Myakkahatchee Creek shall include an additional level of treatment equal to 50% of the treatment criteria specified in § ~~37-25E(1)~~ 18-9 herein.

(19) Drainage plans shall provide that stormwater be conveyed to a ~~an ultimate~~ positive outfall ~~beyond the outer edge of the development or at the nearest natural outfall~~. Discharge points and flow rates must match between the pre-development and post-development conditions.

(20) A littoral zone planting plan shall be provided showing the proposed location(s) of the littoral zone(s), plant types, spacing of plantings and a typical pond cross section showing the littoral zone.

(a) The size of the littoral zone shall follow the criteria as required by the SWFWMD.

(b) The depth of the water between the seasonal high water elevation (SHWE) of the pond and the littoral shelf shall typically be two feet. A maximum 3 feet of water depth can be allowed provided littoral zone plants are proposed that can survive at this water depth.

(c) The littoral zone shall be concentrated near the outfall of each pond. Surface water run-off shall be directed to the deep pool of the pond and not into the littoral zone in order to avoid short circuiting the treatment capacity provided by the pond.

(d) The littoral zone shall be planted with aquatic plants species. Native plant species are encouraged. Aquatic plants that are prohibited under the Florida Department of Environment Protection Chapter 62C-52 will not be allowed. In particularly, the invasive species e.g. cattails (Typha spp. 1) shall not be planted or allowed to grow in the littoral zone or on the periphery of the pond.

(e) Centers of vegetation shall be no farther apart than three feet for herbaceous individual plants or clumps, or five feet for floating-leaved species.

(f) Supplemental planting will be required on an annual basis if survival falls below 85 percent or if coverage is less than 85 percent.

(g) Required littoral zone vegetation shall be maintained in perpetuity by a designated responsible entity or the owner of the property. Invasive plant species shall be removed from the pond as part of routine pond maintenance.

(h) Overgrowth of littoral zone plants maybe be trimmed but all trimmings and decaying vegetation must be removed from the pond and not allowed to accumulate in the pond.

(21) For a wet detention pond, an aeration device shall be used in the deep pool area to increase the oxygen content of the water to improve water quality treatment. The aeration capacity of the device shall be sufficient to avoid anoxic (oxygen depleted) conditions in the pond. Anoxic conditions may result in buildup of algae, turbidity, scum, and foul smells from the pond and even fish kills. This oxygen depleted water when flushed in the City's canals and Myakkahatchee Creek system, will deteriorate the quality of the City's potable water sources and can cause downstream detrimental environmental effects.

(a) If the wet detention pond is located in an area that is not visible to the public or visitors to the site, a bubbler aerator or mixer can be used.

(b) All other wet detention ponds shall have a fountain or waterfall type of water feature to improve water quality treatment and provide an aesthetic appeal. The aeration device shall have a timer to ensure compliance with State and City water preservation requirements.

(c) On a case-by-case basis, the aeration device requirement may be waived if approved by the City Stormwater Manager.

C. General requirements for drainage culvert pipe construction.

(1) No certificate of occupancy or other required final approval for any development may be issued until an appropriate culvert has been installed in accordance with ~~the requirements of this chapter~~ City standards. ~~[Amended 3-11-1991 by Ord. No. 91-1]~~

(2) No person shall construct or install a culvert within the right-of-way or easement of the City without a currently valid culvert permit issued by the City's Road and Drainage Department. ~~Pursuant to this chapter.~~

(3) Specifications for culvert pipes shall be according to the requirements under Sec. 33-5.

D. Sustainable Developments and Low Impact Development Design

(1) In order to protect the limited, valuable natural resources within the City, developments must proceed in a sustainable manner. Sustainable measures such as construction to Florida Green Building Standards, LEED Certification and use of Low Impact Development (LID) designs are encouraged. The design engineer must demonstrate in the stormwater design that LID practices are incorporated to the maximum extent practicable. Examples of LID design practices are to minimize impervious areas, and encourage the use of pervious pavement, green roofs, rain cisterns, reuse of stormwater for irrigation, direct runoff to bioretention/biotreatment vegetated swale areas prior to discharge stormwater pond, Florida Friendly native landscaping, and other surface water quality improvement controls and devices.

(2) Treatment trains incorporating LID design shall be practiced to achieve pollutant load reduction in a developed site in accordance with the Statewide Stormwater Treatment Rule when adopted by SWFWMD and FDEP.

Sec. 18-11. Interpretations

Interpretations of this section shall be made by the City Manager or designee.

Sec. 18-12. Conflicts.

Whenever the requirements of these regulations differ from those imposed by the City, Federal, or state regulation, law or statute, the most restrictive or imposing the higher standards shall govern.

Sec. 18-13. Appeals.

Any person aggrieved by the City Manager or designee's interpretation may appeal to the Zoning Board of Appeals. The criteria for granting an appeal shall be based upon substantial competent evidence proving that the interpretation renders the property unbuildable. The granting of any appeal shall not be in conflict with State Statutes. The Zoning Board of Appeals' decision may be appealed to the Circuit Court of Sarasota County within 30 days of such decision.

(1) Applications for an appeal shall be filed pursuant to Sec. 1-10.

Sec. 18-14. Severability.

If any section, subsection, phrase or portion of this chapter is for any reason held invalid or unconstitutional by any court of competent jurisdiction, such portion shall be deemed a separate, distinct and independent provision and such holding shall not affect the validity of the remaining portions thereof.

Chapters 19--20 RESERVED

APPENDIX D

FLOOD CONTROL PROJECTS SUMMARY

APPENDIX D

FLOOD CONTROL PROJECTS SUMMARY
As of May 25, 2010

Over the last several years the City has pursued a very aggressive stormwater program. Following is a description of the work accomplished.

1. STORMWATER IMPROVEMENTS FUNDING STUDY PHASE I

Summary of Project Accomplishments

The City Commission is committed to considering and evaluating dedicated funding source alternatives for funding stormwater program elements associated with the Big Slough Watershed Study, National Pollutant Discharge Elimination System (NPDES) MS4 Permit compliance, maintenance and rehabilitation of stormwater control structures and infrastructure, water quality improvements, and flood control. In September 2007, a consultant, URS Corporation, was retained to assist in the development of this long-term funding solution for the City. The work will consist of the following steps:

1. Conceptualization of a comprehensive stormwater management vision that:
   a. Takes stock of the existing program;
   b. Integrates community values and expectations on levels of service standards;
   c. Incorporates current and anticipated regulatory requirements; and
   d. Establishes the operational and financial needs of an enhanced stormwater management program consistent with community expectations.

2. Development of an integrated stormwater management program that:
   a. Defines specific work activities that will be accomplished in future years to meet community expectations;
   b. Establishes firm costs for these services; and
   c. Develops a viable long-term funding plan to provide adequate revenues to fund annual operations and capital investments.

3. Implementation of the stormwater funding plan to include:
   a. Required financial analyses;
   b. Assistance with the development of the master account files for the customer base;
   c. Staff training; and
   d. Public education and related support needs.

Budget and Estimated Time for Completion of Projects

The URS contract is for $261,946. Review comments from City Staff have been provided to URS. URS is preparing the final report. A final invoice is expected in June 2010 when the report in completely finalized.

2. CITY OF NORTH PORT WATERSHED STUDY #K883

Summary of Project Accomplishments

The City of North Port is located in southeast Sarasota County in the southern portion of the Big Slough Watershed, which covers approximately 195 square miles, in southwest Florida. The headwaters of the Big Slough Watershed initiate in the Mosaic (a phosphate mining company) land holdings in Desoto County. Flows from the watershed are mostly conveyed by the Big Slough Canal which extends in a

southwesterly direction from Desoto County through unincorporated portions of Manatee and Sarasota Counties before traversing through the City of North Port. The portion of the Big Slough Canal that traverses through the City is also known as the Myakkahatchee Creek. The Myakkahatchee Creek discharges to the lower Myakka River just above the Myakka River's mouth at Charlotte Harbor which then connects to the Gulf of Mexico. The current land use within the watershed north of the City boundary is predominantly agricultural with some mining activities scattered therein.

Due to the extensive historic flooding experienced in the City, a Big Slough Watershed Study is being conducted by consultant Ardaman and Associates under a cooperative funding agreement (K883) between the Southwest Florida Water Management District (SWFWMD) and the City of North Port. The two major goals of this project are to revise the 1981 FEMA flood maps and develop flood reduction projects. The hydraulic model has been created and calibrated with actual storms experienced in 2003 and 2004. The calibrated model has been used to produce draft 100-year flood maps. The latest draft 100-year floodplain maps and hydraulic model received is dated July 18, 2008 and is based on 2004 LiDAR topographic data and development constructed in 2004. A draft of the flood map based on July 18, 2008 draft Big Slough Watershed model has been received.

Budget and Estimated Time for Completion of Projects

This Big Slough watershed study effort is budgeted at $1,280,000 and is cost shared equally between SWFMWD and the City. SWFWMD pays the consultant Ardaman and Associates Inc. for the work completed and the City reimburses SWFMWD for 50% of the cost.

In late 2008, SWFWMD decided to update the hydraulic model with 2007 LiDAR topographic data and the extensive development that has occurred in the City between 2004 and 2007. This update will be done at SWFMWD expense. However, there have been multiple delays on delivery of the 2007 LiDAR due to quality assurance/quality (QA/QC) control issues. The consultant Ardaman and Associates is currently updating the model with developments that has been constructed between 2004 and 2007.

After the model is updated to 2007 data, SWFWMD will pay separately for a Peer Review Consultant (Engineering and Applied Science) to perform a QA/QC of the hydraulic model and also to make recommendation on whether a 100-year frequency storm event with a duration longer than 1-day should be used to develop floodplain maps for the City of North Port. At the completion of the Peer Review effort which is expected in 2010, a series of public meetings will be held to solicit Public input on the 100-year floodplain maps. Any needed revisions of floodplain maps will be completed and the floodplain maps are expected to be submitted to FEMA in 2010 for FEMA review and approval. Once the QA/QC effort is completed on the Big Slough watershed hydraulic model, it will be used to model cost effective stormwater improvement projects for flood reduction that can be permitted through the regulatory agencies. Due to the delays in the 2007 LiDAR data, the contract between the City and SWFWMD has been extended to March 1, 2011.

3. WATER CONTROL STRUCTURE #109 RETROFIT (see attached photos)

Engineering Design

Summary of Project Accomplishments

The City's existing 69 water control structures (WCS) are thirty (30) to forty (40) years old. Aging, functionality and structural integrity conditions vary between structures, but many are in dire need of rehabilitation. Delays in the rehabilitation schedule increase the possibility and risk for a potential massive failure of older deteriorated structures; especially during a severe storm event or any event where there is exposure to harsh environmental conditions. Water control structure failures can trigger

other catastrophic mishaps such as downstream flooding and perhaps even washout of bridges. As a recommendation of a previous evaluation conducted by consultant PBS&J, WCS #109 located in the Cocoplum Waterway just east of San Mateo Blvd was selected for a retrofit. This metal sheet pilings and vertical I-beams on this structure are severely corroded with multiple large holes in the structure allowing extensive seepage of water through these corrosion openings. All of the six gates are severely corroded and either cannot be opened or not opened fully. There is severe erosion undermining the structure.

Kimley Horn and Associates (KHA) has completed the design of the WCS#109 retrofit and has provided engineering services during construction such as shop drawing review, construction inspection, design changes during construction and preparation of as-built plans.

Budget and Estimated Time for Completion of Projects

The KHA contract is for $49,594.36 and the project is completed in May 2009.

Construction

Summary of Project Accomplishments

- Keesling Construction Inc. was selected as the contractor to perform the retrofit work on the severely corroded major water control structure WCS #109 on Cocoplum waterway, east of San Mateo. The contractor has completed the rehabilitation of this severely corroded major water control structure WCS #109 on Cocoplum waterway, east of San Mateo. Work began on April 1, 2009 and is completed in late May 2009. The completion is much earlier than the 5 months planned for this project. Key task accomplished includes:
  - Dewatering of the structure with the installation of an Aquadam was on the upstream and downstream sides of the structure.
  - Replacement of all six (6) rusted gates with stainless steel gates.
  - Construction of reinforced concrete walls at the locations of the existing sheet pilings. Extensive rock revetment was added to provide support for the structure and reduce erosion.
  - Construction of a extended concrete spillway and energy dissipaters to reduced erosion and undermining of the structure.
  - Replacement of all the tie rods that restrain the structure.

Budget and Estimated Time for Completion of Projects

The contract is for $311,650 and the project is completed in May 2009.

4, 5 &6. CHANCELLOR BLVD THREE WATER CONTROL STRUCTURES #501, #503, #504 AND CULVERTS REPLACEMENT (see attached photos)

Engineering Design

Summary of Project Accomplishments

On Chancellor Blvd near Sumter Blvd, there are three (3) corrugated metal pipe (CMP) drop type water control structures WCS #501 (Cheshire Waterway), #503 (Apollo Waterway), and #504 (Jupiter Waterway). The large culvert pipes (CMP) associated with each structure, are all extremely corroded. Since the midline of Chancellor Blvd is the border between City of North Port and Charlotte County, there is an Interlocal agreement between the City and the County in 2002 to plan and budget for replacement of these structures. The County is managing the bidding, award and construction of these projects and the City will reimburse the County for 50% of the design and construction costs.

All three water control structures have been designed and permitted by the consultant DRMP retained by Charlotte County. The DRMP contract with Charlotte County was for $49,868.00.

Budget and Estimated Time for Completion of Projects

The DRMP contract with Charlotte County was for $49,868.00 and the project was completed Sept 2009.

Construction

Summary of Project Accomplishments

WCS# 504 (Jupiter Waterway)
The first structure to be replaced is WCS# 504 (Jupiter Waterway). This structure is located on the north side of Chancellor Blvd between Fountain Street and Eppinger Drive (just east of the new portion of Salford Blvd). The Contract has been awarded to Armadillo Underground Contractors and a notice to proceed is issued effective 4/27/09 and the contract time is 90 days. The project cost is $432,032 and the project was completed in August 2009.

WCS#503 (Apollo Waterway)
The second structure to be replaced is WCS# 503 (Apollo Waterway). This structure is located on the north side of Chancellor just east of Sumter Blvd. The project has been awarded to Dave Foot Environmental and a notice to proceed is issued effective 5/26/09 and the contract time is 90 days. The dewatering system is currently being installed as of 6/9/09. The project cost is $400,464 and the project was completed in Sept 2009.

WCS#501 (Cheshire Waterway)

The third structure to be replaced is WCS# 504 (Cheshire Waterway). This structure is located on the north side of Chancellor just west of Sumter Blvd. The project has been awarded to Southwest Utilities and a notice to proceed is issued effective 5/26/09 and the contract time is 60 days. Currently as of 6/9/09, the contractor is awaiting on SWFWMD approval of the revised dewatering plan prior to start of site work The project cost is $171,908 and the project was completed in July 2009.

Budget and Estimated Time for Completion of Projects

The final cost of all three projects is $1,004,404 and is shared 50/50 between Charlotte County and the City of North Port. All three projects are all completed in 2009.

7. REHABILITATION WCS 107 ON COCOPLUM WATERWAY

Summary of Project Accomplishments

As a recommendation of a previous evaluation conducted by consultant PBS&J, WCS #107 located in the Cocoplum Waterway just west of Chamberlain Blvd was selected as the next major water control structure on Cocoplum waterway targeted for a retrofit. This metal sheet pilings and vertical I-beams on this structure are severely corroded with multiple large holes in the structure allowing extensive seepage of water through these corrosion openings. All of the six gates are severely corroded and either cannot be opened or not opened fully. There is severe erosion undermining the structure.

Kimley Horn and Associates (KHA) has completed the design and SWFWMD permitting of the WCS#107 retrofit and is contracted to provide engineering services during construction such as shop drawing review, construction inspection, design changes during construction and preparation of as-built plans. The project construction has been awarded to Coral Sands in May 2010.

Budget and Estimated Time for Completion of Projects
The KHA contract is for $43,873.16. The project is expected to be complete prior to end of the City's fiscal year in September 2010.

8, 9, & 10. DROP STRUCTURES (DS) #132, 133, 139 REPLACEMENT

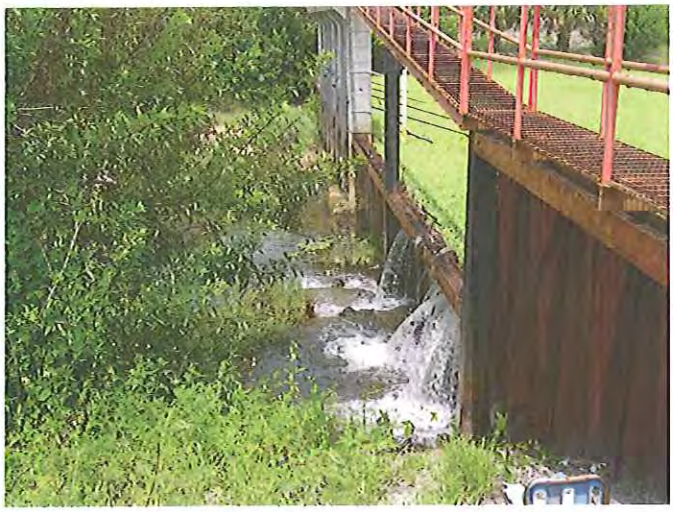
Summary of Project Accomplishments

As part of the City's continual water control structure rehabilitation/replacement program, three additional water control structures have been identified as in dire need of replacement. The structures were installed in the 1960's as corrugated metal pipe (CMP) vertical drop structures which continues as horizontal culvert pipes under major roadways. These structures serve to convey flow under a roadway where the roadway bisects a canal. Over time these metal drop structures has become severely corroded and any collapse can cause major washout of the roadway and flooding.

DMK Associates has been selected to design and obtain SWFWMD permitting for the replacement of three structures, DS 132 at Jeannin Drive/Bass Point Waterway, DS 133 at Price Blvd/Bass Point Waterway, and DS 139 at Price Blvd/New Castle Waterway. An open weir is designed with concrete culvert pipes under the roadway to replace each of the drop structures. Currently, all three new structures have been designed and permitted by SWFMWD. The temporary construction easements are currently under acquisition and the maintenance of traffic plan is evaluated to detour traffic during construction.

Budget and Estimated Time for Completion of Projects

The DMK contract is for $89,952.35. The project is expected to be completed late 2010 to early 2011. Replacement of DS #132 and 133 is expected to go for bid later in 2010.



Old Water Control Structure #109 on Cocoplum Waterway with corroded metal weirs and 6 corroded gates. Note water pouring through large holes in the corroded metal weirs.

Newly retrofitted Water Control Structure #109 on Cocoplum Waterway with concrete weir and 6 new stainless steel gates

Type of Project – Water Control Structure #109 Retrofit

Project - Construct new concrete weir and Replace existing corroded gates with 6 new stainless steel gates

Project Program - Community Budget Issue Requests (CBIRS) 50% Reimbursable

Completion Date - May 2009

Design Cost - $49,594.36

Construction Cost -$311,650

Old Water Control Structure #504 on Jupiter Waterway - Note corroded metal drop pipe design which is subject to clogging

Newly constructed Water Control Structure #504 on Jupiter Waterway with fiberglass skimmer to prevent clogging and triple 72"concrete culvert pipes under Chancellor Blvd through a cooperative joint project with Charlotte County Public Works

Type of Project – Water Control Structure #504 at Jupiter and Chancellor Blvd Replacement

Project - Construct new concrete Water Control Structure #504 and triple 72" concrete pipes under Chancellor Blvd

Project Program - Cooperative joint (50/50 Funded) project Between City of North Port Public Works Dept and Charlotte County Public Works Dept. Community Budget Issue Requests (CBIRS) 50% Reimbursable.

Completion Date - August 2009

Design Cost - $16,623

Construction Cost -$432,032

Old Water Control Structure #503 on Apollo Waterway - Note corroded metal drop pipe design which is subject to clogging

Newly constructed Water Control Structure #503 on Apollo Waterway with fiberglass skimmer to prevent clogging and triple 72"concrete culvert pipes under Chancellor Blvd through a cooperative joint project with Charlotte County Public Works

Type of Project – Water Control Structure #503 at Apollo and Chancellor Blvd Replacement

Project - Construct new Water Control Structure #503 and triple 72" concrete pipes under Chancellor Blvd.

Project Program - Cooperative joint (50/50 Funded) project Between City of North Port Public Works Dept and Charlotte County Public Works Dept. Community Budget Issue Requests (CBIRS) 50% Reimbursable.

Completion Date - September 2009

Design Cost - $16,623

Construction Cost -$ 400,464

Old Water Control Structure #501 Discharging into Cheshire Waterway – 60" metal pipe connect to this concrete structure is corroded under Chancellor Blvd

Water Control Structure #501 on Cheshire Waterway – Replacing concrete structure and 60" diameter corroded metal pipe with concrete pipe

Type of Project –	Water Control Structure #501 at Cheshire and Chancellor Blvd Replacement
Project -	Construct new Water Control Structure #501 and 60" concrete pipe under Chancellor Blvd
Project Program -	Cooperative joint (50/50 Funded) project Between City of North Port Public Works Dept and Charlotte County Public Works Dept. Community Budget Issue Requests (CBIRS) 50% Reimbursable.
Completion Date -	July 2009
Design Cost -	$16,623
Construction Cost -	$171,908

APPENDIX E

PZE Inspections and Ma. ...nance of City Facilities

Project	SWFWMD Permit	Type of System	Maintenance Entity	2009 Inventory			2009 Inspections		2009 Maintenance			
				Date Tranferred to Operation	No. of Ponds	Inlets Catch Basins MH	Date Inspected	Deadline (1 yr from last inspection)	Date Maintained	No. of Ponds	Inlets Catch Basins MH	Comments
City Hall and Police Station	44016316.003	1 Wet Pond	Property Maintenance	12/28/07	2	24	8/14/09, 12/11/2009 (SWFWMD Recert)	12/11/10	8/12/09	1		Removed shell pile around large north pond
Fire Station 81and Mullen Center at City Center Blvd	44016316.000	1 Wet Pond	Property Maintenance	11/4/03	1	11	8/12/09 and 8/14/09	8/12/10 and 8/14/10	9/10/09	1	1	
Fire Station 82 at North Port Blvd	440025522.002 440025522.003	2 Dry with 2 Underdrains	Property Maintenance	2/22/10	2	7	10/21/2009 by E Wong, 12/16/09 by Mike Shannon	10/21/10				
Fire Station 83 at East Price / Haberland	46029686.000	2 Wet Ponds	Property Maintenance	10/20/08	2	4	4/28/09	4/28/10	N/A			
Fire Station 84 (next to PW)	46014050.001	1 Dry Pond	Property Maintenance	3/1/2004	1		4/28/09	4/28/10	N/A			
Fire Station 84 (Citizen's Parkway)	46035178.000	2 Dry Pond	Property Maintenance	Under Const.		3			N/A			
Fleet Maintenance Yard	Prior to ERP	2 Dry Ponds	Property Maintenance	<1984	2	1	10/16/2009	10/16/10	11/3/09	1	1	
Pan American Blvd Campus	46007313.002	1 Dry Pond	Property Maintenance	12/17/08	1		10/16/2009	10/16/10	11/3/09			General Site
Biscayne Gardens Drainage Improvement Project	44024955.000	no ponds	Public Works	2/26/10		11	10/16/2009	10/16/10	11/3/09		1	
Biscayne Drive and Price Blvd	46017688.001	pipes under sidewalks	Public Works				12/14/09	12/14/10	1/20/10			8" pipes under sidewalks cleaned
Choctaw Blvd Extension	44016977.000		Public Works				10/23/09	10/23/10	N/A			
	44016977.001						10/23/09	10/23/10	N/A			
	44016977.002	4 Dry Ponds with 3 Underdrains		11/3/03	4	2	10/23/09	10/23/10	N/A			
Control Structure Replacement (DS-132, DS-133, DS-134 Bass Point and New Castle Waterways)	44035193.000		Public Works	Under Construction					N/A			
Cranberry Blvd	4001804.000	1 Wet Pond	Public Works		1		7/13/09	7/13/10	N/A			
Price and Cranberry	44033077.000	4 dry ponds with ditch blocks and 5 Inlets/CB	Public Works	Drainage modification under construction					N/A			
Intersection of Price and Salford (Elementary School H Intersection Improvement)	44031205.000	7 Underdrains tied into catch basins	Public Works	6/30/08	7	7	10/8/09	10/8/10	N/A			
Price Blvd. Widening (at Toledo Blade)	44032843.000	2 Wet Ponds and 33 inlets	Public Works	under construction					N/A			
	44032843.001	1 Weir							N/A			
Public Works Yard	40006004.000	1 Dry Pond	Public Works	4/15/94	1	7	10/9/09	10/9/10	11/3/09	1	7	
R226 Outfall Improvements	44024208.000	1 Dry Pond	Public Works	6/8/08	1	2	11/18/09	11/18/10	N/A			
Salford Pond Near US41	44014445.001	1 Dry Pond	Public Works	12/5/05	1	1	10/9/09	10/9/10	10/16/09	1	1	
Spring Haven Dr. Phase I (Price to Youth Center Entrance Road)	44030825.001	Under Construction	Public Works	Under Construction		8	Under Construction		N/A			

Part III A: 1

PZE Inspections and M.. ..nance of City Facilities

Project	SWFWMD Permit	Type of System	Maintenance Entity	2009 Inventory			2009 Inspections		2009 Maintenance			
				Date Tranferred to Operation	No. of Ponds	Inlets Catch Basins MH	Date Inspected	Deadline (1 yr from last inspection)	Date Maintained	No. of Ponds	Inlets Catch Basins MH	Comments
Spring Haven Dr. Phase II (Youth Center Drive and Parking)	44007490.003	Under Construction	Public Works	Under Construction		2	Under Construction		N/A			
Sumter Green (Greenway, Pocatella)	40006954.000	2 Dry Ponds	Public Works	9/30/93	2	14	10/9/09	10/9/10	11/3/09	1		
Sumter Blvd - Between Chancellor Blvd and US 41	44016724.000	2 Dry Pond	Public Works	2/5/99	2		10/23/09	10/23/10				
Sumter Blvd Improvements - Between Chancellor Blvd and US 41	44016724.001	Not Constructed yet	Public Works	Not Constructed					N/A			
Sumter Phase II Between US 41 and Heron Creek	44027659.000	2 Dry with Underdrains 3 Wet Ponds, 6 pollution control boxes inside CB	Public Works	Sept 2008	5	67	10/23/09	10/23/10	11/8/09			Swale and two MES pipes cleaned
Sumter Blvd. Phase III between Heron Creek Blvd. to Morandi Ave.	44032911.000	28 ponds Segment Under Construction	Public Works	Under Construction					N/A			
Sumter Blvd Near I-75	44016090.000	16 Wet Ponds	Public Works		16	19	12/29/09	12/29/10	11/18/09	5	16	
	44016090.001						12/29/09	12/29/10	11/18/09			
Toledo Blade Widening	44031797.002	37 Ponds (8 effluent filtration ponds & 1 retention pond & 28 conveyance ponds) 64 inlets/CB Under Construction	Public Works	Under Construction					N/A			
	44031797.003								N/A			
North Port Utilities Yard	Prior to ERP	3 Dry Ponds	Utilities	<1984	3	3	10/16/2009	10/16/10	11/3/09	2	1	
North East Booster Station (Price Blvd. near Haberland)	58-0283712-001 FDEP	1 Wet Pond	Utilities - Jerry Manning	Construction completed 12/09	1		Construction completed 12/09		N/A			
Utilites Southwest Booster Station (a.k.a. WVID pump station)	44027994.000	1 Wet Pond	Utilities	9/14/06	1		10/16/2009	10/16/10	N/A			
Atwater Park	44034254.001	3 wet & 1 dry pond	Property Maintenance	under construction			Under Design	Under Design	N/A			
Blue Ridge Park (2155 Blue Ridge)	47035104.000	N/A	Property Maintenance	10/14/09			10/14/09	10/14/10	N/A			
Butler Park (6205 Price Blvd.) adjacent to Youth Center	40007490.000	4 Interconnect Ponds with one Control structure	Property Maintenance	4/12/90	4		12/14/09	12/14/10	N/A			
Dallas White Park (Greenwood)	44002522.001	1 Pond with Side drain	Property Maintenance	2/12/90	1		10/14/09	10/14/10	N/A			
Garden of Five Senses (4299 Pan American)	44029294.000	2 dry ponds	Property Maintenance	2/1/08	2	4	7/28/09	7/28/10	7/31/09	1		Erosion on pond banks near sidewalk

Part III A.1

PZE Inspections and Ma[illegible]ance of City Facilities

Project	SWFWMD Permit	Type of System	Maintenance Entity	2009 Inventory			2009 Inspections		2009 Maintenance			
				Date Tranferred to Operation	No. of Ponds	Inlets Catch Basins MH	Date Inspected	Deadline (1 yr from last inspection)	Date Maintained	No. of Ponds	Inlets Catch Basins MH	Comments
Glennallen Soccer Fields (GlennAllen/Narramore)	44019384.002	2 Wet Ponds	Property Maintenance	8/9/07	2	13	8/20/09	8/20/10	8/29/09		2	
Highland Ridge Bike Park (6225 Kenwood)	46033881.000	1 Dry Pond with side drain	Property Maintenance	6/3/09	1	3	10/14/09	10/14/10	11/3/09			Fixed swale ruts
Hope Park (8161 Lombra)		N/A	Property Maintenance				10/14/09	10/14/10	N/A			
Kirk Park (8305 Trionfo)		N/A	Property Maintenance				10/14/09	10/14/10	N/A			
LaBrea Park (6340 LaBrea)	Donated to City 5/12/69	N/A	Property Maintenance				10/9/09	10/9/10	N/A			
Marina Park (7030 Chancellor)		N/A	Property Maintenance				10/9/09	10/9/10	N/A			
Marius Park (Marius)		N/A	Property Maintenance				10/9/09	10/9/10	N/A			
McKibben Park (5500 Trekell)	47035103.000	N/A	Property Maintenance	10/14/09			10/14/09	10/14/10	N/A			
Myakkahatchee Creek Trailhead Parking Lot	44034910.001		Property Maintenance	Under design			Under Design		N/A			
Myakkahatchee Creek Environmnetal Park (6968 Reistertown)	46013953.000	Retention Swale Ponds	Property Maintenance		2	1	12/16/09	12/16/10	N/A			
Narramore Sports Complex (7508 Glenallen)	43020825.001	3 Dry with 1 Underdrain	Property Maintenance	9/10/08	3	2	8/20/09	8/20/10	1/20/10			Maintenance performed in 2/3/10
North Port Family YMCA (5925 Greenwood)		1 Dry Pond	Property Maintenance		1	2	10/14/09	10/14/10	11/3/09	1	1	
North Port Town Center Athletic West	44016316.001		Property Maintenance				11/20/09	11/20/10	N/A			
North Port Town Center Athletic East	44016316.002	N/A	Property Maintenance	10/11/07			8/14/09	8/14/10	9/21/09			Garbage removed
Oaks Park (Mandrake)			Property Maintenance				12/11/09	12/11/10	N/A			
Pine Park (4556 McKibben)		N/A	Property Maintenance				10/14/09	10/14/10	N/A			
Paw Park (Appomatox)	44034925.000	2 effluent filtration ponds	Property Maintenance	Under Construction			Under Design		N/A			
Skate Park (5651 North Port)	44020920.000	2 Dry with 2 Underdrains	Property Maintenance	4/12/07	2	1	10/23/09	10/23/10	11/3/09	1		
Youth Center	44007490.002		Property Maintenance	Under Construction			Under Construction		N/A			
Youth Center Aquatic Center	44007490.004		Property Maintenance	Under Construction			Under Construction		N/A			
Total		**21 Sidedrains & underdrains and 6 GIBs**			**74**	**219**				**16**	**31**	

Part III. A.1.

Part III A.2

Part III.A.2 and III.A.9.a - New Development Review- 2009

Type	Number Rec'd	Stormwater Review	BMPs reviewed	
			Private Site	City Sites
Annexations	0	0	0	
Comprehensive Plan Amendment	3	0	0	
Conditional Use Permit	3	3	0	
Development Concept Plan (DCP)	5	5	4	1
Subdvision Plans and Plat (FPS)	2	2	2	
General Petitions	14	2	0	2
Major Site Development (MAS)	23	23	14	9
Final Plat (PLF)	2	2	0	
Plat Vacation	3	0	0	
Rezone	1	0	0	
Subdvisions (SCP)	1	1	1	
Temp Use Permit (TUP)	11	0	0	
Text Amendment	2	0	0	
Vacation of Easement	1	1	0	
Variance	1	0	0	
Village District Pattern Book Amend	1	1	0	
Village Proposed/Final VDPP	1	1	0	
Total	**74**	**41**	**21**	**12**

Part III.A.6 Public Outreach

Brochure Type	Date Available	Amount Available	Date Remaining Brochures Counted	Amount Remaining	Amount Distributed	No. In Participants	Neighborhood Presentation	Seminar/ Workshop	Special Events	Public Displays	Event
Fertilizer Presentation to Kiwanis	01/14/09	0	01/04/09	0	0	20	Y				E. Wong gave a powerpoint presentation to about 20 members at Early Bird Kiwanis
ACSE Presentation	01/22/09					100		Y			E. Wong gave a powerpoint presentation to ASCE on Stormwater design and rule changes
Fertilizer Fact Sheet	01/31/09	55	01/31/09	0	55	500			Y	Y	E. Wong and S. Frank host booth at Environmental Festival at Garden of 5 Senses
SWFWMD Stormwater Consequences Poster	01/31/09	36	01/31/09	0	36						E. Wong and S. Frank host booth at Environmental Festival at Garden of 5 Senses
Sustainability North Port Go Green Brochure	02/28/09	196	02/28/09	0	196	10000			Y	Y	PZE Staff and other City Staff at City's 50th Anniversary Parade
Sustainability North Port Go Green Brochure	03/07/09	104	03/07/09	0	104						PZE Staff at North Port Business and Community Expo
Fertilizer Fact Sheet	03/07/09	25	03/07/09	0	25	2000			Y	Y	PZE Staff at North Port Business and Community Expo
Fertilizer Fact Sheet	03/10/09	50	03/10/09	0	50	40	Y				S. Frank gave presentation to Jockey Club Homeowners Association
Fertilizer Ordinance Summary	03/10/09	50	03/10/09	0	50						S. Frank gave presentation to Jockey Club Homeowners Association
Fertilizer Fact Sheet	04/25/09	100	04/25/09	0	100	300			Y	Y	E. Wong and R. Pieper host booth Annual Tree Festival at Community Center on Pan American Drive
SWFWMD Stormwater Game Poster	04/25/09	50	04/25/09	0	50						E. Wong and R. Pieper host booth Annual Tree Festival at Community Center on Pan American Drive
Fertilizer Fact Sheet	05/21/09	4	05/21/09	0	4	200			Y		PZE staff at Woodland Elementary School
Fertilizer Fact Sheet	06/04/09	100		0	100					Y	1st Floor Kiosk, 2nd Floor Kiosk, 1st Floor PZE, 3rd Floor PZE
Sustainability North Port Go Green Brochure	06/04/09	100		0	100					Y	1st Floor Kiosk, 2nd Floor Kiosk, 1st Floor PZE, 3rd Floor PZE
Know Where Your Drinking Water Comes From	06/04/09	100		0	100					Y	1st Floor Kiosk, 2nd Floor Kiosk, 1st Floor PZE, 3rd Floor PZE
Fertilizer Fact Sheet	06/08/09	50		0	50					Y	Kiosk at North Port Library
Sustainability North Port Go Green Brochure	06/08/09	50		0	50					Y	Kiosk at North Port Library
Know where your drinking water comes from	06/08/09	50		0	50					Y	Kiosk at North Port Library
PZAB Workshop	08/05/09					50		Y			SWFWMD and E. Wong gave a powerpoint presentations on upcoming new flood maps and timelines
Fertilizer Fact Sheet	08/30/09	50	08/30/09	20	30	20	Y				Fertilizer Ordinance review at Community Garden Presentation by Barbara McKeathon at the North Port Library
Stormwater Eucational Game from SWFWMD	09/26/09	50	09/26/09	11	39	300			Y	Y	E. Wong and S. Frank host booth at Eco-Blast for Kids organized by People for Trees
Wetland Coloring Sheet from SWFWMD	09/26/09	50	09/26/09	11	39						E. Wong and S. Frank host booth at Eco-Blast for Kids organized by People for Trees
Florida Friendly Plant Coloring Sheet from SWFWMD	09/26/09	50	09/26/09	11	39						E. Wong and S. Frank host booth at Eco-Blast for Kids organized by People for Trees
Fertilizer Fact Sheet	09/26/09	50	09/26/09	32	18						E. Wong and S. Frank host booth at Eco-Blast for Kids organized by People for Trees
Know Where Your Drinking Water Comes From	09/26/09	50	09/26/09	45	5						E. Wong and S. Frank host booth at Eco-Blast for Kids organized by People for Trees
Fertilizer Fact Sheet	10/17/09				3	40			Y	Y	S. Frank, Jane Harry and Michelle Norton Regional hosted a booth at Regional Planning Council Green Region Expo
Know where your drinking water comes from	10/17/09				10						S. Frank, Jane Harry and Michelle Norton Regional hosted a booth at Regional Planning Council Green Region Expo
Stormwater Eucational Game from SWFWMD	10/17/09				5						S. Frank, Jane Harry and Michelle Norton Regional hosted a booth at Regional Planning Council Green Region Expo
Wetland Coloring Sheet from SWFWMD	10/17/09				5						S. Frank, Jane Harry and Michelle Norton Regional hosted a booth at Regional Planning Council Green Region Expo
Florida Friendly Plant Coloring Sheet from SWFWMD	10/17/09				5						S. Frank, Jane Harry and Michelle Norton Regional hosted a booth at Regional Planning Council Green Region Expo
Fertilizer Fact Sheet	11/01/09	30	11/01/09	16	14	600			Y	Y	E. Wong, Sherry Ridera and Cathy Miller hosted a booth at Charlotte County Green Expo
Stormwater Eucational Game from SWFWMD	11/01/09	30	11/01/09	5	25						E. Wong, Sherry Ridera and Cathy Miller hosted a booth at Charlotte County Green Expo
Wetland Coloring Sheet from SWFWMD	11/01/09	30	11/01/09	5	25						E. Wong, Sherry Ridera and Cathy Miller hosted a booth at Charlotte County Green Expo
Presentation to Peace River Engineering Society	11/10/09					20		Y			E. Wong gave a powerpoint presentation to PRES on Stormwater design and rule changes
Fertilizer Fact Sheet	11/14/09				2	2			Y	Y	Toledo Blade Business Group Expo
North Port Fertilizer Ordinance Fact Sheet	11/21/2009				25	3000			Y	Y	CHNEP Nature Festival Stan Frank and John Evano
Landscape & Fertilizer Tips (SWFWMD)	11/21/2009				17						
Stormwater game from SWFWMD	11/21/2009				10						
Who Lives in a Wetland?" coloring sheet	11/21/2009				29						
Preventing Septic System Problems	11/21/2009				9						
Protecting Your Springs	11/21/2009				5						
Total	**Total**	**1510**			**1479**	**17192**	**3**	**3**	**10**	**15**	
Total No. of Participants							**80**	**170**	**16942**	**16742**	

Part III.A.6

Part III A.6

Part III.A.6 - Newspaper & Newsletters and TV

Date	Description	No. of Newsletters	No. of Newspaper Article	No. of TV
April 2009	North Port Magazine Article "Green Grass - What's It Worth?"	5000		
May 2009	City of North Port News Letter - "Volunteers Help Get City Clean" - 4/18/09 Great American Cleanup	565		
May 2009	City of North Port News Letter - "Tree Festival"	565		
May 2009	North Port Magazine Article "Where the River Flows?"	5000		
Aug 2009	City of North Port News Letter - "Adopt a Street:	565		
Sept 2009	Journal for Surface Water Quality Professionals Article "Permeable Pavers"	26000		
Sept 2009	City of North Port News Letter - "Teamwork at its Best" - Chancellor water control structures	565		
Oct 2009	City of North Port News Letter - "Coastal Cleanup a Success"	565		
Total		**33825**	**0**	**0**

Part III A.6

Part III.A.6 - Fertilizer Training

Date of Training	Name
10/22/2007	Bennett, Tammy
10/22/2007	Hoffman, William
1/25/2008	Alexander, Scott
1/25/2008	Ayres, George, Jr
1/25/2008	Brennan, Shawn
1/25/2008	Emrich, Pete
1/25/2008	Gogliettino, Steve
1/25/2008	Ribas, Shaun
1/25/2008	Short, Ken
1/25/2008	Sorrentino, Stephen
1/25/2008	Stawowy, Rich
1/25/2008	Steele, Daniel
1/25/2008	Tucker, Joseph
1/25/2008	Willis, James
1/25/2008	Wong, Elizabeth
4/11/2008	Dula, Robert
5/8/2008	Blackmer, Walter
5/8/2008	Payne, Teresa
8/23/2008	Holland, Bryan
8/23/2008	Pieper, Ryan
8/23/2008	Prindiville, Tom
8/25/2009	Schmucker, Todd
10/20/2009	Harry, Jane
10/20/2009	Miller, Catherine
Total Trained	**24**

Part III.A.7.c - Proactive Inspections for Illicit Discharges

Name of Business	Address	2008 Date of Inspection	2009 Date of Inspection
Apartments/ Condos			
Willow Creek Apartments	6851 Willow Creek Circle		9/23/2009
			11/3/2009
			12/4/2009
Churches			
Daycares, Foster Homes, AC			
Quality Health Care	6940 Outreach Way		
North Port Pines Retirement	4950 Pocatella Ave		
Golf Courses			
Bobcat Golf Course	1350 Bobcat Trail		
Heron Creek Golf Course	5301 Heron Creek Blvd.		
Industrial Sites			
King Plastic	1100 N. Toledo Blade	11/25/2008	9/23/2009
Don's Recycling	5054 Trott Circle		9/23/2009
			11/3/2009
			11/5/2009
			12/10/2009
Toledo Blade Self Storage	1001 Executive Way		12/4/2009
			12/29/2009
Curb Systems	1061 Technology Ave.		
Martin Septic	2308 Tropicaire Blvd.		
VLC Recycling and Mulching	6726 joejeff St		
Medical Sites			
Recreation/Club Sites			
Restaurants			
Olde World Restaurant	14415 Tamiami Trail		9/22/2009
			11/3/2009
Family Table	14132 S. Tamiami Trail		9/22/2009

Part III.A.7.c - Proactive Inspections for Illicit Discharges

Name of Business	Address	2008 Date of Inspection	2009 Date of Inspection
Retail, Office			
Publix	14809 Tamiami Trail		12/8/2009
			12/16/2009
Winn Dixie	14275 Tamiami Trail		12/9/2009
			12/16/2009
			12/21/2009
Walmart Super Center	17000 Tamiami Trail		
Home Depot	18000 Tamiami Trail		
Service Sites			
Tuffy Auto Service	14970 Tamiami Trail	2/20/2008	
Vavoline Instant Oil Change	14914 Tamiami Trail	2/27/2008	
Sunshine Cleaners	14251 Tamiami Trail		12/8/2009
Hi Tech Cleaners	14849 Tamiami Trail		12/8/2009
Hashem's Auto World	5085 Pan American Blvd		
Quality Auto Painting	5084 Trott Circle		
School Sites			
Total Inspections			20

Part III A.7.c

Part III.A.7.c - Illicit Discharge Reported

Date	Description	Staff Follow Up
6/23/09	Cathy Miller sent e-mail on 6/23/09 to Tim Roane of KHA regarding need to clean up debris on Hospital Road.	Cathy Miller followed up 8/04/09
7/24/09	Duck Key HOA rep Fred Koenig asked E.Wong to visit Duck Key development to provide recommendations on Stormwater systems maintenance. See inspection report dated 7/24/09	Fred Koenig e-mailed on 9/25/09 re status of maintenance
7/31/09	Cathy Miller sent e-mail on 7/31/09 to Michael Woolery regarding erosion on bacnks of Cedar Grove retention pond	Michael Woolery sent e-amil 7/31/09 on plan to follow up
8/14/09	Cathy Miller sent e-mail on 8/14/09 to Jason Sepanski to clean up dirt that fell off from dirt hauling operations into gutters along Citizens Parkway.	Jason Sepanski emailed on 8/17/09 and reported dirt cleaned up following Saturday

Part III A.7.c

Part III.A.7.c - Illicit Discharge Training

Date	Description	Staff Trained
9/30/09	USEPA Stormwater Program Webcast Series - Illicit Discharge Detection and Elimination (IDDE) 301 - Finding and Fixing Illicit Discharge and Connections	Cathy Miller and Jane Harry
11/10/09	Internal City Staff Training on Ilicit Discharge and City Fertilizer Ordinance By Stormwater Manager Elizabeth Wong	11 City staff see sign-in sheet

Solid Waste Community Outreach

Date	Event	Participants	Brochures Distributed	Type of Outreach			
				Neighborhood	School	Seminar/ Workshop	Special Event
1/10/09	NP Newcomer Day	171	75			1	
1/31/09	Environmental Festival	150	70				1
2/28/09	North Port 50th Anniversary Parade	5000					1
3/7/09	North Port Business and Community	2000	200				1
3/14/09	HHW Event	182					1
4/24/09	Toledo Blade Earth Day Celebration	420	50		1		
5/2/09	NP Newcomer Day	50	30			1	
8/1/09	NP Newcomer Day	220	90			1	
10/24/09	Harvest Fest	400	145				1
10/27/09	Atwater Elementary Government Week	350			1		
11/7/09	NP Newcomer Day	200	80			1	
11/7/09	Lamarque Elementary Fall Festival	300	95		1		
11/18/09	Lamarque Elementary Cub Scout Troop	25		1			
11/21/09	Kid's Fest	500	80				1
12/3/09	Toledo Blade Science Night	350	20		1		
12/5/09	Hope for Homeowners	100	65				1
12/12/09	Poinsettia Parade	6000					1
	Total Number		1000	1	4	4	8
	Total Participants			25	1420	641	14332

Part III. A.1.c x 4

2009 Solid Waste HHW Collection Data

	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	Total
Electronic Waste	6.27	6.97			1.13		3.11	4.63	5.79	5.21	5.32	4.90	43.33
Waste Oil		1.64	2.36	1.00	0.60		3.17	0.92	1.92	0.88		1.428	13.92
Vehicle Batteries				0.30						0.81		0.36	1.47
HHW Collection Event			2.28										**61.00**

reported in tons

Part III A.1.f

Part III A.9.a

Part III.A.2 and III.A.9.a - New Development Review- 2009

Type	Number Rec'd	Stormwater Review	BMPs reviewed	
			Private Site	City Sites
Annexations	0	0	0	
Comprehensive Plan Amendment	3	0	0	
Conditional Use Permit	3	3	0	
Development Concept Plan (DCP)	5	5	4	1
Subdvision Plans and Plat (FPS)	2	2	2	
General Petitions	14	2	0	2
Major Site Development (MAS)	23	23	14	9
Final Plat (PLF)	2	2	0	
Plat Vacation	3	0	0	
Rezone	1	0	0	
Subdvisions (SCP)	1	1	1	
Temp Use Permit (TUP)	11	0	0	
Text Amendment	2	0	0	
Vacation of Easement	1	1	0	
Variance	1	0	0	
Village District Pattern Book Amend	1	1	0	
Village Proposed/Final VDPP	1	1	0	
Total	**74**	**41**	**21**	**12**

Part III A.9.c

Part III.A.9.c - Construction Site BMP Training

Date	Description	Staff Trained
5/19/09	Exfiltration Trench Design and Inspection during Construction Training by Elizabeth Wong	Cathy Miller and Jane Harry
8/14/09	Stormwater Inspection and Maintenance	Cathy Miller, Jane Harry, and Pete Emerich
10/20/09	Florida Green BMP	Cathy Miller and Jane Harry
11/10/09	Internal City Staff Training on Stormwater System BMPs and Maintenance By Stormwater Manager Elizabeth Wong	11 City staff see sign-in sheet

Total = 11+3 = 14