

## 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 email to the NPDES Stormwater Program Administrator or to
  the MS4 coordinator. Their names and email addresses are available at: <a href="http://www.dep.state.fl.us/water/stormwater/npdes/contacts.htm">http://www.dep.state.fl.us/water/stormwater/npdes/contacts.htm</a>. If files
  are larger than 10mb, materials may be placed on the NPDES Stormwater ftp site at: <a href="http://ftp.dep.state.fl.us/pub/NPDES\_Stormwater/">http://ftp.dep.state.fl.us/pub/NPDES\_Stormwater/</a>. After
  uploading the ANNUAL REPORT files, an email must be sent to the MS4 coordinator or the NPDES program administrator notifying them the
  report is ready for downloading
- Refer to the Form Instructions for guidance on completing each section.
- Please print or type information in the appropriate areas below

SECT	ION I. BACKGROUND INFORMATION			
А.	Permittee Name: City of Auburndale			
В.	Permit Name: Polk County Municipal Separa	ate Storm Sewer S	System	
C.	Permit Number: FLS000015-003 (Cycle 3)			
D.	Annual Report Year: Year 1 Year 2	🗌 Year 3 🛛 X	Year 4	Year 5 🔲 Other, specify Year:
E.	Reporting Time Period (month/year): 9/ 14 t	hrough 9/15		
	Name of the Responsible Authority: Robert	R. Green		
	Title: City Manager			
F	Mailing Address: P.O.Box 186			
F.	City: Auburndale	Zip Code: 33823	3	County: Polk
	Telephone Number: 863-965-5506		Fax Number	: 863-965-5583
	E-mail Address:			
	Name of the Designated Stormwater Manage John Dickson	ement Program C	ontact (if differ	rent from Section I.F above):
	Title: Public Works Director			
	Department: Public Works			
G.	Mailing Address: P.O Box 186			
	City: Auburndale	Zip Code: 338	23	County: Polk
	Telephone Number: 863-965-5511		Fax Number	: 863-956-5597
	E-mail Address: jdickson@auburndalefl.con	n		

SECT	ION II. MS4 MAJOR OUTFALL INVENTORY (Not Applicable In Year 1)
A.	Number of outfalls ADDED to the outfall inventory in the current reporting year (insert "0" if none): 0 (Does this number include non-major outfalls? X Yes No No Not Applicable)
В.	Number of outfalls REMOVED from the outfall inventory in the current reporting year (insert "0" if none): 0 (Does this number include non-major outfalls? X Yes No No Not Applicable)
C.	Is the change in the total number of outfalls due to lands annexed or vacated?

SECT	
А.	Provide a brief statement as to the status of monitoring plan implementation: <u>DEP Note:</u> Polk County provides ambient monitoring for all but one lake (Juliana) within the City limits. This monitoring effort has collected water quality samples for Lakes Ariana, Arietta, and Lena since 1971 and Lakes Agnes, Mariana and Tennessee since1985. This monitoring program is expected to continue and will provide valuable insight to the effectiveness of the City of Aubumdale's stormwater program.
Β.	<ul> <li>Provide a brief discussion of the monitoring results to date: Based on a cursory trend analysis of the ambient monitoring data, it appears most of the six monitored lakes (Agnes, Ariana, Arietta, Lena, and Tennessee ) have seen an improving trend in nutrient concentrations(TN and TP) with the exception of:</li></ul>
C.	Attach a monitoring data summary, as required by the permit. See attached Table 1 for the monitoring data summary

SECT	TION IV. FISCAL ANALYSIS
А.	Total expenditures for the NPDES stormwater management program for the current reporting year: \$50,370.97 <u>DEP Note:</u> If program resources have decreased from the previous year, attach a discussion of the impacts on the implementation of the SWMP as per Part II.F of the permit.
В.	Total budget for the NPDES stormwater management program for the subsequent reporting year: \$4000.00

## 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):

	(such as recor	DO NOT SUBMIT ANY OTHER MATERIALS rds and logs of activities, monitoring raw data, public outreach materials, etc.)
		This report will serve as the application for the NPDES MS 4 permit
XX		Year 4 ONLY: Permit re-application information in accordance with Rule 62-624.420(2), F.A.C
	xxx 🗌	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.
	xx	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.
xxx		A monitoring data summary as directed in Section III.C above and in accordance with Rule 62- 624.600(2)(c), F.A.C.
Attached	<u>N/A</u> XX	*** <u>DEP Note:</u> Please complete Checklists A & B at the end of the tailored form.*** 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.

## 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.

reen

Date: 3 1/81 2016

Name of Responsible Authority (type or print): \_\_\_\_\_Robert R. Green

abut 10

City Manager

Signature:

Permit Requirement/Quantifiable SWMP Activity         Number of Activity           Structural Controls and Stormwater Collection Systems Operation         Structural controls and Stormwater Collection Structures on types of control structures listed in Table 1.A.1.a of the permit. Report the current known inventory.           Maintain an up-to-date inventory of the structural controls and roadway stormwater collection structures on types of control structures listed in Table 1.A.1.a of the permit. Report the current known inventory.         DEP Note: DEP Note: planned for the future. The permittee may remove any structural controls listed that it does not have consistent with the unit of measurement in the doctorum listed that it does not have consistent with the unit of measurement in the doctorum listed that it does not have consistent with the unit of measurement in the doctorum listed that it does not have consistent with the verif of the actions future and a map depicting the location of consistent with the verif of the minimum inspection frequencies set forth in Table consistent with the verif of the actions that will be taken to ensure that they will be not the actions that will be taken to ensure that they will be active the minimum inspection of the actions that will be taken to active the antiform in Column D and the name of the entity who finalized the explanation in Colu the attached explanation of why they were not and a description of the actions that will be the attached explanation in Column D and the name of the entity who finalized the explanation in Colo bry retention systems           Dry retention systems         1         2         1000         22         1000         22         100         22         100         22         100         22         10	SECTION VII. A.	VII. STORMWATER MANAGEMENT PROGRAM (SWMP B.	RAM (SWM		SUMMARY TABLE		vi	Ġ	Ľ	L.	
Stru Additional and the state of the state o	ation/ VMP ment	Permit Requirement/Quantifia	ble SWMP	Activity		Num Acti Perfo	ber of vities ormed	Documentation / Record	Entity Performing the Activity	Comments	
Maintain an up-to-date inventory of the structural controls and roadway stormwater collection structures operated types of control structures listed in Table II.A.1.a of the permit. Report the current known inventory. DEP Mole: The permittee needs to "customiza" this section by adding any structural controls to the ist below paramed for the future. The permittee needs to "customiza" this section by addino, the permittee may choose its own unit of consistent with the unit of measurement in the documentation. Unit options include: miles, linear feet, acres, consistent with the unit of measurement in the documentation. Unit options include: miles, linear feet, acres, consistent with the unit of measurement in the documentation. Unit options include: miles, linear feet, acress the attached description of each type of structure included in Table explanation of why they were not and a description of the actions that will be faken to a magnet the attached explanation in <i>Column D</i> and the name of the eaction structure included in Table DEP Mole: If the minimum inspection frequencies set forth in Table II.A.1. a of the permit were not met for on as an attachment an explanation in <i>Column D</i> and the name of the eaction structures performed in the attached explanation in <i>Column D</i> and the name of the eaction structures of the explanation in <i>Column E</i> . Type of Structure DPY retention systems 1, 2, 4, 100, 52, 100, Waste Wet detention systems 2, 4, 100, 52, 100, Waste	art A.1	Structural Controls and Stormwater Collect	ion Syster	ns Operati	u						
DEP Note:     The permittee needs to "customize" this section by adding any structural controls to the list below paramed for the future. The permittee may remove any structural controls listed that if does not have currently see the attached description of each type of structure. In addition, the permittee may choose its own unit of it consistent with the unit of measurement in the documentation. Unit options include: miles, linear feet, acres. Provide an inventory of all known major outfalls covered by the permit and a map depicting the location of the ma outfall inventory and map with the Year 1 Annual Report.       Report the number of inspection and maintenance activities conducted for each type of structure included in Table each type of structure inspection frequencies set forth in Table II.A.1.4.       Report the minimum inspection frequencies set forth in Table II.A.1.4.       explanation of why they were not and a description of the actions frat will be taken to ensure that they will be me the attached explanation in Column D and the name of the entity who finalized the explanation in Column E as an attachment an explanation of why they were not and a description of the actions frat will be laken to the attached explanation in Column D and the name of the entity who finalized the explanation in Column E.       Dry retention systems     1     2     100     Waste       Wet detention systems     2     4     100     52     100     Waste		Maintain an up-to-date inventory of the structu types of control structures listed in Table II.A.1	ral controls .a of the p∈	and roadw srmit. Repc	ay stormwat	ter collection nt known inv	n structures entory.	operated by the permitte	ee, including, at a mini	mum, all of the	
Provide an inventory of all known major outfalls covered by the permit and a map depicting the location of the maintenance activities conducted for each type of structure included in Table U.A.1.4       Report the number of inspection and maintenance activities conducted for each type of structure included in Table U.A.1.4       Report the minimum inspection frequencies set forth in Table II.A.1.4       each type of structure inspection frequencies set forth in Table II.A.1.4       EPE Note:     If the minimum inspection frequencies set forth in Table II.A.1.4       explanation of why they were not and a description of the actions that will be taken to ensure that they will be method as an attachment an explanation in Column D and the name of the entity who finalized the explanation in Column E.       Type of Structure     Number of Activities Performed       Provide and maintenance     1       Docut     2       Inspection systems     1       Dry retention systems     2       Addition systems     2       Provide detention systems     2		<u>DEP Note</u> : The permittee needs to "custo planned for the future. The permittee may see the attached description of each type ( consistent with the unit of measurement in	mize" this s remove an of structure the docum	ection by a ly structura. In additio. entation. L	dding any sı 'controls lisı n, the permi Init options ı	tructural con ted that it do ittee may ch include: mile	trols to the l es not have oose its owr s, linear fee	list below that are part o • currently or will likely nv 1 unit of measurement fc •t, acres, etc.	f the permittee's MS4 of have during this per or each structural conti	currently or are mit cycle. Please rol to be	
Report the number of inspection and maintenance activities conducted for each type of structure included in Table II.A.1.4.         each type of structure inspection and maintained. If the minimum inspection frequencies set forth in Table II.A.1.4.         explanation of why they were not and a description of the actions that will be taken to ensure that they will be taken to ensure that they will be taken to ensure that they will be taken to ensure that the minimum inspection frequencies set forth in Table II.A.1.4.         DEP Note:       If the minimum inspection frequencies set forth in Table II.A.1.4.         DEP Note:       If the minimum inspection frequencies set forth in Table II.A.1.4.         DEP Note:       If the minimum inspection frequencies set forth in Table II.A.1.4.         Dep Note:       If the minimum inspection frequencies set forth in Table II.A.1.4.         Dep Note:       If the minimum inspection frequencies set forth in Table II.A.1.4.         Dep Note:       If the minimum inspection frequencies set forth in Table II.A.1.4.         Type of Structure       Number of the entity who finalized the explanation in Column E.         Type of Structure       Number of the entity who finalized the explanation in Column E.         Type of Structure       Number of the entity who finalized the explanation in Column E.         Dep Note       Number of the entity who finalized the explanation in Column E.         Distribution systems       1       2       100       52       100       Waste <td></td> <td>Provide an inventory of all known major outfall outfall inventory and map with the Year 1 Annu</td> <td>s covered t ial Report.</td> <td>y the perm</td> <td>it and a ma</td> <td>p depicting th</td> <td>he location (</td> <td>of the major outfalls (har</td> <td>d copy or CD-ROM).</td> <td>Provide the</td> <td></td>		Provide an inventory of all known major outfall outfall inventory and map with the Year 1 Annu	s covered t ial Report.	y the perm	it and a ma	p depicting th	he location (	of the major outfalls (har	d copy or CD-ROM).	Provide the	
DEP Note: If the minimum inspection frequencies set forth in Table II.A.1.a of the permit were not met for one as an attachment an explanation of why they were not and a description of the actions that will be taken to entity who finalized the explanation in Column E.         Type of Structure         Number of the entity who finalized the explanation in Column E.         Type of Structure       Number of Activities Performed       Docum         Type of Structure       Number of a description of the actions that will be taken to entity who finalized the explanation in Column E.       Docum         Type of Structure       Number of Activities Performed       Percentage       Percentage         Number of Structure       Total       Number of Activities Performed       Docum         Number of Structure       Total       Number of Activities Performed       Docum         Number of Structure       Total       Number of Activities Performed       Percentage         Number of Structure       Total       Number of Activities Performed       Percentage         Number of Structure       Total       Number of Activities Performed       Percentage         Number of Structure       Total       1       2       100       Net         Net detention systems       2       4       100       52       100       Naste		Report the number of inspection and maintena each type of structure inspected and maintain explanation of why they were not and a descri	ince activiti ed. If the m otion of the	es conduct iinimum ins actions tha	ed for each t pection freq t will be tak	type of struc uencies set en to ensure	ture include forth in Tabl that they w	d in Table II.A.1.a, and t le II.A.1.a were not met, ill be met.	he percentage of the i provide as an attachn	total inventory of nent an	
ion     Structures       ion     systems       ion     ion       io		<u>DEP Note</u> : If the minimum inspection freq as an attachment an explanation of why th the attached explanation in Column D and	uencies sei ey were no the name (	t forth in Ta It and a des of the entity	ble II.A.1.a ( cription of th who finalize	of the permit he actions th ed the expla	t were not m nat will be ta nation in Co	net for one or more type ken to ensure that they Numn E.	of structure, the permi will be met. Please pr	the permittee must provide Please provide the title of	
Iotal       Total         10       1 <t< td=""><td></td><td>Type of Structure</td><td></td><td>Number o</td><td>f Activities</td><td>Performed</td><td></td><td>Documentation / Record</td><td>Entity Performing the Activity</td><td>Comments</td><td></td></t<>		Type of Structure		Number o	f Activities	Performed		Documentation / Record	Entity Performing the Activity	Comments	
1     2     100     52     100       2     4     100     52     100       2     4     100     52     100			Number of			onsnetnisM	Percentage bənistnisM				
2 4 100 52 100		Dry retention systems	-	5	100	52	100	Waste Water Report	Waste Water Dept.		
2 4 100 52 100											
		Wet detention systems	5	4	100	52	100	Waste Water Report	Waste Water Dept.		
2 5 100 1 100		Stormwater pump stations	7	ວ	100		100	Waste Water Report	Waste Water Dept.		

Page 4 of 18

SECTION VII. A.	VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE	AM (SWMF	) SUMMA	RY TABLE	ਹਂ 		ġ	ш	Ľ
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP		Activity		Numt Activ Perfo	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	Major stormwater outfalls	0	0	0	0				( the outfalls reported Year 1 were not major according to rule 62-624.200(5) F.C.
	MS4 pipes / culverts (miles)	31	~	100			Public Works Report	Public Works	
	Inlets / catch basins / grates	7	ω	100	ω		Waste Water Report	Waste Water Dept.	
	Ditches / conveyance swales (miles)	2	52	100	5		Public Works Report	Public Works	
	ATTACH explanation if any of the minimum inspection frequencies in Table II.A.1.a were <u>not</u> met Year 1 ONLY: Attach a map of all known major outfalls	num insp Table 1ap of all	ection frec II.A.1.a we known ma	n inspection frequencies in Table II.A.1.a were not met of all known major outfalls					
Part III.A.2	Areas of New Development and Significant Redevelopment	tedevelop	ment						
	Report the number of significant redevelopment projects reviewed by the permittee for post-development stormwater considerations.	projects re	eviewed by	the permitt	ee for post-d	evelopmen	t stormwater considerati	ons.	
	<u>DEP Note:</u> Please provide an explanation in Column F for any "0" reported in Column C.	1 Column I	<sup>⊏</sup> for any "C	)" reported i	n Column C.				
	Number of significant redevelopment projects reviewed	levelopme	ent project	s reviewed		<del>~~</del>	BZ Reports	City of Auburndale/BZ	
	Provide in the Year 2 Annual Report the summary report of the review of local codes activity. Provide in the Year 4 Annual Report the follow-up report on plan implementation of modifying codes to allow low impact design BMPs.	iry report c impact des	of the revievision BMPs.	v of local cc	odes activity.	Provide in	the Year 4 Annual Repo	ort the follow-up repo	rt on plan
	DEP Note: Refer to Part III.A.2 of the permit for details regarding what the review entails, and what must be included in the summary report and follow-up report. Please provide the title of the attached report in Column D and the name of the entity who finalized the report in Column E.	it for detail. rt in Colum	s regarding In D and th	t what the re e name of t	eview entails, 'he entity who	, and what I o finalized ti	must be included in the \$ 'he report in Column E.	summary report and :	follow-up report.
	Year 2 ONLY: Attach the summary report of the review activity Year 4 ONLY: Attach the follow-up report on plan implementation	ary report report on	of the revi plan imple	of the review activity plan implementation					
Part III.A.3	Roadways								
	Annually review (and revise, as needed) and implement the permittee's written procedures for the litter control program(s) for public streets, roads, and highways, including rights-of-way, employed within the permittee's jurisdictional area and properly dispose of collected material. Implement the program on a monthly, or on an as needed, basis. Report on the litter control program, including the frequency of litter collection, an estimate of the total number of road miles cleaned or amount of area covered by the activities, and an estimate of the quantity of litter collected.	plement th mittee's jui am, includ quantity o	e permittee risdictional ing the frec f litter colle	e's written p area and p tuency of lit cted.	rrocedures fo roperly dispo ter collection	r the litter c ise of collec i, an estima	e permittee's written procedures for the litter control program(s) for public streets, roads, and highways, risdictional area and properly dispose of collected material. Implement the program on a monthly, or on ing the frequency of litter collection, an estimate of the total number of road miles cleaned or amount of f litter collected.	blic streets, roads, an t the program on a m road miles cleaned (	nd highways, onthly, or on an as or amount of area
	<u>DEP Note:</u> 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 area covered by the activity include: square feet, linear feet, yards, miles, acres. If all litter collection is performed by staff or by contractors, but not by both, please remove the non-applicable reporting items.	n Column ount of litte 3, acres. It	F for any "( er include: 1 * all litter co	)" reported i bags, cubic vlection is p	in Column C. yards, pounc erformed by	In additior ds, tons. Ul staff or by c	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 Unit options for the amount of litter include: bags, cubic yards, pounds, tons. Unit options for the amount of area covered by the activity linear feet, yards, miles, acres. If all litter collection is performed by staff or by contractors, but not by both, please remove the non-applicable	ose its own units of r it of area covered by oth, please remove th	neasurement for the activity he non-applicable

A.	B	ं	ġ	ш	Ľ
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	PERMITTEE Litter Control Program: Frequency of litter collection	Daily Mon-Fri	Litter collection Report	Public Works	
	PERMITTEE Litter Control Program: Estimated amount of area maintained (miles)	233.5 miles	Local Mileage Sheet	Public Works	
	PERMITTEE Litter Control Program: Estimated amount of litter collected (cubic yards)	248-60Gal. Bags	Local Mileage Sheet	Public Works	
	CONTRACTOR Litter Control Program: Frequency of litter collection	0			
	CONTRACTOR Litter Control Program: Estimated amount of area maintained (linear feet)	0			
	CONTRACTOR Litter Control Program: Estimated amount of litter collected (cubic yards)	0			No Contractor
	If an Adopt-A-Road or similar program is implemented, report the total number of road miles cleaned and an estimate of the quantity of litter collected.	bad miles cleaned and	I an estimate of the qua	intity of litter collected	
	<u>DEP Note:</u> The permittee may choose its own unit of measurement for the amount of litter collected. Unit options include: bags, cubic yards, pounds, tons. If an Adopt-A-Road or similar program is not implemented by the permittee, please note that in Column F but do <u>not</u> remove the Adopt-A-Road Program reporting items.	ount of litter collected note that in Column F	<ul> <li>Unit options include: L but do not remove the ,</li> </ul>	bags, cubic yards, po Adopt-A-Road Progre	unds, tons. If an am reporting item.
	Trash Pick-up Events: Total miles cleaned	0			No Program
	Trash Pick-up Events: Estimated amount of litter collected (cubic yards)	0			No Program
	Adopt-A-Road Program: Total miles cleaned	0			No Program
	Adopt-A-Road Program: Estimated amount of litter collected (cubic yards)	0			No Program
	Report on the street sweeping program, including the frequency of the sweeping, total miles swept, an estimate of the quantity of sweepings collected, and the total nitrogen (TN) and total phosphorus (TP) loadings that were removed by the collection of sweepings. If no street sweeping program is implemented, provide the explanation of why not in the Year 1 Annual Report.	otal miles swept, an es ion of sweepings. If n	stimate of the quantity o o street sweeping progr	of sweepings collected ram is implemented, p	d, and the total orovide the
	<u>DEP Note:</u> 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.	Column C. Also, the <sub>l</sub> nds, tons.	permittee may choose it	ts own unit of measur	ement for the
	DEP Note: If the permittee has curbs and gutters but no street sweeping program is implemented, the permittee must provide an explanation of why not in the Year 1 Annual Report. Refer to Part III.A.3 of the permit for the information that must be included in the explanation (including the altermate BMPs used or planned in lieu of street sweeping). Please provide the title of the attached explanation in Column D and the name of the entity who finalized the explanation in Column E.	ram is implemented, t at must be included in in Column D and the i	he permittee must provi the explanation (includi name of the entity who f	ide an explanation of ing the alternate BMF finalized the explanat	why not in the 2s used or planne ion in Column E.
	Frequency of street sweeping	1 Day Per Week	Street Sweeping Log	Public Works	
	Total miles swept (per year)	1600	Sweeping Odometer Log	Public Works	
	Estimated quantity of sweeping material collected (tons.)	126.32	Public Works Log	Public Works	Total removed TN-156lbs. TP-100 lbs.
	Year 1 ONLY: If have curbs and gutters, attach explanation of why no street sweeping program and the alternate BMPs used or planned				

Page 6 of 18

Part Cation Beneficiential Beneficienti Beneficienti Beneficiential Beneficiential Beneficiential Benef	Number of Documentation / Activities Record		
with road repair and maintenance, and from permittee-own the number of applicable facilities and the number of inspec		Entity Performing the Co Activity	Comments
DEP Note:       The permittee needs to "customize" this se facility in Column C. Add more rows if necessary. If "C applicable facilities, please provide an explanation in C Parts III.A. 3 and III.A. 5 of the permit, the same site inspection under both Parts III.A.         Name of facility #1: Auburndale Fleet Maint./ Public Wo         Plood Control Projects         Report the total number of flood control projects that were of include stormwater treatment. The permittee shall provide not. Report the total number of flood control projects that were of rainage systems that do not have treatment BMPs.         DEP Note:       A "stormwater retrofit planning activities at drainage systems that do not have treatment BMPs.         DEP Note:       A "stormwater retrofit planning activities at drainage systems that do not have treatment BMPs.         DEP Note:       The status of the flood control and retrofit provide not. Report for those reported as planned, for those not duplication for those reported as planned, for those after and retrofit projects completed during Flood control projects completed during Flood control projects under retrofit projects that did not stormwater retrofit projects under construction stormwater retrofit projects under construction for those stormwater retrofit projects under construction for the stormwater retrofit projects under construction for those stormwater retrofit projects under construction for those treatment and an explanation for those flood control projects under construction for those treatment and an explanation for those treatment and an explanatin projects completed during flood control projects unde	ards and maintenance shops that support r acility.	road maintenance activities	s. Report
Name of facility #1: Auburndale Fleet Maint./ Public Wo         Name of facility #1: Auburndale Fleet Maint./ Public Wo         Flood Control Projects         Report the total number of flood control projects that were of include stormwater treatment. The permittee shall provide not. Report on any stormwater retrofit planning activities at drainage systems that do not have treatment BMPs.         DEP Note:       A "stormwater retrofit planning activities at drainage systems that do not have treatment BMPs.         DEP Note:       In any stormwater retrofit planning activities at drainage systems that do not have treatment BMPs.         DEP Note:       In stormwater retrofit project' is one implen of uplication for those reported as planned, for those not uplication for those reported as planned, for those is no duplication for those reported as planned, for those is no duplication for those reported as planned, for those is no duplication for the filt in Column E.         DEP Note:       If applicable, please provide the title of the the entity who finalized the list in Column E.         Plood control projects completed during for control and retrofit projects that did not include s       Stormwater retrofit projects under construction include s         ATTACH a list of the flood control projects under construction stormwater retrofit projects under construction for ease stormwater retrofit projects under construction stormw	of the applicable facilities in Column B and t or the number of inspections conducted and fions were conducted. In addition, if the sa both inspection requirements as long as it c	the number of inspections o d the permittee has one or r me facility is applicable und covers the applicable waste	of each more der both e area(s). Be
Name of facility #1: Auburndale Fleet Maint./ Public Wo         Flood Control Projects         Flood Control Projects         Report the total number of flood control projects that were of include stormwater treatment. The permittee shall provide include stormwater treatment. The permittee shall provide a drainage systems that do not have treatment BMPs.         DEP Note:       A "stormwater retrofit project" is one implem drainage systems that do not have treatment BMPs.         DEP Note:       The status of the flood control and retrofit project" is one implem of uplication for those reported as planned, for those in duplication for those reported as planned, for those if applicable, please provide the title of the the entity who finalized the list in Column E.         DEP Note:       If applicable, please provide the title of the the entity who finalized the list in Column E.         Plood control projects completed during the reportin include s       Stormwater retrofit projects under construction stored as control projects that did not include s         ATTACH a list of the flood control projects under construction stormwater retrofit projects under construction stormwater retrofit projects under construction stormwater retrofit projects completed during         Municipal Waste Treatment, Storage, and Disposal Fac	Number of Inspections		
Flood Control Projects         Flood Control Projects         Report the total number of flood control projects that were of include stormwater treatment. The permittee shall provide include stormwater treatment BMPs.         DEP Note:       A "stormwater retrofit project" is one impler drainage systems that do not have treatment BMPs.         DEP Note:       The status of the flood control and retrofit project" is one impler no duplication for those reported as planned, for those provide the title of the the entity who finalized the list in Column E.         Plood control projects completed during flood control projects that did no treatment and an explanation for eastron for the entity who finalized the list in Column E.         ATTACH a list of the flood control projects that did no the treatment and an explanation for eastron for eastron to the entity who finalized the list in Column E.         Report control projects completed during the reportin include s         ATTACH a list of the flood control projects that did no tinclude s         Stormwater retrofit projects under construction stored and retrofit projects under construction stormater retrofit projects under construction stormater retrofit projects completed during the reportin include s         Municipal Waste Treatment, Storage, and Disposal Fac	4 Public Works	Public Works	
Report the total number of flood control projects that were of include stormwater treatment. The permittee shall provide not. Report on any stormwater retrofit planning activities and drainage systems that do not have treatment BMPs.         DEP Note:       A "stormwater retrofit project" is one implented of the status of the flood control and retrofit project is one implenting activities.         DEP Note:       If applicable, please provide the title of the the entity who finalized the list in Column E.         PODD Control projects completed during retrofit projects that did not the status of the status of the status of the list in Column E.         ATTACH a list of the flood control projects that did not include s stormwater retrofit projects under construction the treatment and an explanation for east the antity who finalized the list in Column E.         ATTACH a list of the flood control projects that during recting the reportin projects completed during the reportin include s stormwater retrofit projects under construction the treatment and an explanation for east stormwater retrofit projects under construction stormwater retrofit projects completed during the reportin include s stormwater retrofit projects under construction stormater retrofit projects under construction stormater retrofit projects completed during the reportin include s stormwater retrofit projects under construction stormater retrofit projects completed during flood			
DEP Note:       A "stormwater retrofit project" is one implen         DEP Note:       The status of the flood control and retrofit project.         DEP Note:       If applicable, please provide the title of the ind entity who finalized the list in Column E.         DEP Note:       If applicable, please provide the title of the the entity who finalized the list in Column E.         Flood control projects completed during the reportin include s       ATTACH a list of the flood control projects that did not reatment and an explanation for eastormwater retrofit projects under construction         Stormwater retrofit projects completed during       Stormwater retrofit projects under construction	e during the reporting period and the numb stormwater treatment was not included with ntation of retrofitting projects to reduce storr	er of those projects that did n an explanation for each of mwater pollutant loads from	d NOT of why it was n existing
DEP Note:The status of the flood control and retrofit pno duplication for those reported as planned, for thoseDEP Note:If applicable, please provide the title of theDEP Note:If applicable, please provide the title of thethe entity who finalized the list in Column E.Flood control projects completed duringFlood control projects completed during the reportininclude sATTACH a list of the flood control projects that did noitreatment and an explanation for eaStormwater retrofit projects under constructionStormwater retrofit projects completed duringMunicipal Waste Treatment, Storage, and Disposal Fac	stormwater treatment for areas currently wi	ithout treatment.	
DEP Note:If applicable, please provide the title of the the entity who finalized the list in Column E.Flood control projects completed during Flood control projects completed during the reportin include sATTACH a list of the flood control projects that did <u>noi</u> treatment and an explanation for ea Stormwater retrofit projects under constructionStormwater retrofit projects completed during mater retrofit projects under constructionMunicipal Waster Treatment, Storage, and Disposal Fac	as of the last day of the applicable reporting tion and for those reported as completed.	g period. Therefore, there s	should be
	l projects that did not include stormwater tre	eatment in Column D and th	the name of
	0		
	0		
	0		
	0		
	0		
	NPDES Stormwater Permit		
-	lures for inspections and the implementation	in of measures to control dis	ischarges
from the following facilities that are not otherwise covered by an NPDES stormwater permit:	ermit:		

Permit Citation/			ż		L
SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	<ul> <li>Operating municipal landfills;</li> <li>Municipal waste transfer stations;</li> <li>Municipal waste freatmaintenance facilities; and</li> <li>Any other municipal waste treatment, waste storage, and waste disposal facilities.</li> </ul>	acilities.			
	Report the number of applicable facilities and the number of the inspections conducted for each facility.	ted for each facility.			
	<u>DEP Note</u> : The permittee needs to "customize" this section by listing the names of the applicable facilities in Column B and the number of inspections of each facility in Column C. Add more rows if necessary. 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 varies where street sweeping material and/or yard waste are temporary stockpiled, and where solid waste collection vehicles are parked and/or maintained. In addition, if the same facility is applicable under both Parts III.A.5 and III.A.5 and III.A.5 and/or to vehicles are parked inspection requirements as long as it covers the applicable waste area(s). Be sure to report the site inspection under both Parts 11.A.5 and 11.A.5.	of the applicable facili umber of inspections conducted. An appli re temporary stock III.A.3 and III.A.5 of to report the site ins	ties in Column B and th conducted and the pen cable facility under Pa cieal, and where solid the permit, the same sit pection under both Part	e number of inspectic mittee has one or mo art III.A.5 includes, b waste collection ve e inspection can cour is III.A.3 and III.A.5.	ons of each facili re applicable ut is not limiteo hicles are park nt towards both
		Number of Inspections			
	Name of facility #1:Auburndale Fleet Maint./ Public Works	4	Inspection Report	Public Works	
Part Ⅲ Δ 6	Pesticides, Herbicides, and Fertilizer Application				
	Continue to require proper certification and licensing by the Florida Department of Agriculture and Consumer Services (FDACS) for all applicators contracted to apply pesticides, herbicides, or fertilizers on permittee-owned property, as well as any permittee personnel employed in the application of these products. Report the number of permittee personnel applicators and contracted commercial applicators of pesticides and herbicides who are FDACS certified / licensed. Report the number of permittee personnel and contractors who have been trained through the Green Industry BMP Program, and the number of contracted commercial applicators of free from the restricter who are FDACS certified / licensed. Report the number of permittee personnel and contractors who have been trained through the Green Industry BMP Program, and the number of contracted commercial applicators of fertilizer who are FDACS certified / licensed.	griculture and Consumitee personnel em des and herbicides w istry BMP Program, a	Florida Department of Agriculture and Consumer Services (FDACS) for all applicators contracted to apply berty, as well as any permittee personnel employed in the application of these products. Report the numbrial applicators of pesticides and herbicides who are FDACS certified / licensed. Report the number of through the Green Industry BMP Program, and the number of contracted commercial applicators of	for all applicators col 1 of these products. F / licensed. Report th acted commercial apl	ntracted to apply Report the numb I number of plicators of
	<u>DEP Note</u> : If "0" is reported in Column C for any of the reporting items, please include in Column F an explanation of why training was not provided to / obtained by personnel and contractors during the applicable reporting year, the most recent year that training / certification was previously provided / obtained, and the names of the personnel and contractors previously trained / certified.	include in Column F ' year that training / c	an explanation of why ti ertification was previous	raining was not provic sly provided / obtaine	led to / obtained d, and the name
	PERSONNEL: Florida Department of Agriculture and Consumer Services (FDACS) certified applicators of pesticides and herbicides	0			None Used
	CONTRACTORS: FDACS certified / licensed applicators of pesticides and herbicides	0	ţ		None Used
		0			None Used
	PERSONNEL: Green Industry BMP Program training completed	4			
	CONTRACTORS: Green Industry BMP Program training completed 0 0 None used	0			None used

Page 8 of 18

A.	A. B.	ن ن	Ġ	E.	L
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	governments within the watershed of a nutrient-impaired water body shall adopt the Department's Model Ordinance for Florida-Friendly Fertilizer Use on Urban Landscapes pursuant to SB 494 (2009) or an ordinance that includes all of the requirements set forth in the Model Ordinance. <u>The ordinance shall be adopted within</u> <u>24 months of the date of permit issuance</u> . Provide a copy of the adopted ordinance with the subsequent Year 1 or Year 2 Annual Report.	<ul> <li>Department's Model</li> <li>uirements set forth in a</li> <li>with the subsequent</li> </ul>	Ordinance for Florida-I the Model Ordinance Year 1 or Year 2 Annu	Friendly Fertilizer Use <u>The ordinance shall b</u> e tal Report.	on Urban e adopted within
	<u>DEP Note:</u> If this provision is not applicable because the permittee is not withi Column F, but do not remove this reporting item.	in the watershed of a l	ie permittee is not within the watershed of a nutrient-impaired water body, then please indicate that in	body, then please ind	licate that in
	<u>DEP Note:</u> Please provide the title and citation of the ordinance in Column D <sub>1</sub>	and the name of the e	and the name of the entity who finalized the ordinance in Column		Ū.
	Year 1 or Year 2 ONLY: Attach copy of adopted Florida-friendly ordinance				
	During Year 1 of the permit, develop and implement a written public education and outreach program plan to encourage citizens to reduce their use of pesticides, herbicides, and fertilizers. Report on the public education and outreach activities that are performed or sponsored by the permittee within the permittee's jurisdiction to encourage citizens to reduce their use of pesticides, herbicides, and fertilizers, including the type and number of activities conducted, the type and number of materials distributed, the percentage of the population reached by the activities in total, and the number of Web site visits (if applicable). Activities performed under the Florida Yards and Neighborhoods (FYN) program should only be reported if the permittee is contributing funding towards the FYN staff and program within its jurisdiction.	outreach program pla nat are performed or s uding the type and nu the number of Web sit is contributing funding	in to encourage citizens ponsored by the permit mber of activities condu e visits (if applicable). towards the FYN staff	s to reduce their use o ttee within the permitt ucted, the type and nu Activities performed u and program within it	of pesticides, ee's jurisdiction to imber of materials nder the Florida s jurisdiction.
	<u>DEP Note:</u> The permittee should "customize" the list of public outreach activities by removing items or adding items to the list below as appropriate to their particular public outreach program. However, the reporting item of "Estimated percentage of the population reached by the activities in total" must remain. The permittee may add more specifics to the reporting items, such as the name of the brochure or newsletter distributed. If "O" is reported in Column C for all the reporting items to untreach was performed.	es by removing items percentage of the po the brochure or news n was performed.	or adding items to the oulation reached by the 'etter distributed. If "0" i;	list below as appropria activities in total" mus s reported in Column (	ate to their st remain. The C for all the
	<u>DEP Note:</u> Polk County is to report the public education and outreach activities that it performed county-wide (and not just in the unincorporated areas of Polk County). The co-permittees are to report just the public education and outreach activities that they performed.	es that it performed co sh activities that they p	unty-wide (and not just verformed.	in the unincorporated	areas of Polk
	DEP Note: Indicate under Column E "Entity Performing the Activity" if FYN or IFAS is performing any of the reported public education and outreach activities. In addition, please complete the following line: FYN PROGRAM FUNDING: Permittee Provides Funding? TYS xx No Amount of Funding = \$	IFAS is performing any of the rep Permittee Provides Funding?	y of the reported public unding? □ Yes xx[	blic education and outreach activ xx∐ No Amount of Funding	<i>ch activities. In</i> unding = \$
	Estimated percentage of the population reached by the activities in total	11.16			
	Brochures/Flyers/Fact sheets distributed	0			
	FYN: Brochure/Flyers/Fact sheets distributed	00		N Y Y	
	Neighborhood presentations: Number conducted FYN: Neighborhood presentations: Number of participants			FΥN	
11/janua 21	FYN: Neighborhood presentations: Number conducted	0		FΥN	
	Neighborhood presentations: Number of participants	0			
	Newspapers & newsletters: Number of articles/notices published	0			
	Newsletters: Number of newsletters distributed	0			
	Public displays (e.g., kiosks, storyboards, posters, etc.)	0			
	FYN: Public displays (e.g., kiosks, storyboards, posters, etc.)	0		FYN	
	Radio or television Public Service Announcements (PSAs)	0			
	FYN: Radio or television Public Service Announcements (PSAS)	0,		L YN	
	School presentations: Number conducted	7			

Page 9 of 18

SECTION VII.	VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE				
A.	B	ാ	Ġ	ш	<b>L</b>
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	School presentations: Number of participants FYN: School presentations: Number conducted FYN: School presentations: Number of participants Seminars/Workshops: Number conducted Seminars/Workshops: Number conducted FYN: Seminars/Workshops: Number conducted FYN: Seminars/Workshops: Number of participants Special events: Number of participants FYN: Special events: Number of participants	1200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	City Web Site	FYN FYN FYN City Of Auburndale	
Part III.A.7.a	Illicit Discharges and Improper Disposal — Inspections, Ordinances, and Enforcement Measures	rcement Measures	discharade illicit conne	ortione illegel dumning	and chills into
	The MS4 and to require compliance with conditions in ordinances, permits, contracts, and orders. Report amendments, as needed.	, and orders. Report <i>n D and the name of</i>	amound ges, much conne amendments, as need the <i>entity</i> who finalized	ed. <i>I the report in Column</i>	E. No Change
Part III.A.7.c	Illicit Discharges and Improper Disposal — Investigation of Suspected Illicit Discharges and/or Improper Disposal	scharges and/or Im	proper Disposal		
	During Year 1 of the permit, develop and implement a written proactive inspection program plan for identifying and eliminating sources 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.	ogram plan for identi noluding the number of	fying and eliminating so of inspections conducte	ources of illicit dischar, ed, the number of illicit	ges, illicit activities found,
	<u>DEP Note:</u> If "O" is reported in Column C for the first reporting item, please include an explanation in Column P for why no proactive inspections were performen. In addition, the permittee should re-word the "NOVs / warning letters / citations issued" reporting item to more accurately reflect its particular initial enforcement activity, if necessary.	ude an explanation in issued" reporting iten	Column F for why no F 1 to more accurately rei	roacuve inspections v flect its particular initia	vere perioririea. I enforcement
	<u>DEP Note:</u> Proactive inspections may include, for example, suspect areas (e.g., industrial areas), commercial businesses (e.g., restaurants, car washes, service stations, laundries / dry cleaners, auto body shops, mobile 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.	, industrial areas), oc emporary activities (e n with high risk indus	mmercial businesses ( .g., special events / fai. trial facilities or constru	e.g., restaurants, car v rs / circus) that would iction sites, or in respo	washes, service not otherwise be onse to citizen or
	<u>DEP Note</u> : Polk County is to report ONLY the proactive inspections it performed in the unincorporated areas of Polk County – any proactive inspections it performed in the co-permittees' jurisdictions are to be reported by the co-permittees. Each co-permittee is to report the Polk County proactive inspections their jurisdiction separately from the proactive inspections that the co-permittee performed itself.	d in the unincorporat tees. Each co-permi performed itself.	re unincorporated areas of Polk County – any proactive inspections it Each co-permittee is to report the Polk County proactive inspections done in rmed itself.	y – any proactive insp k County proactive ins	ections it pections done in
	<u>DEP Note:</u> Refer to Part III.A.7.c of the permit for what must be included in the written proactive inspection program plan. Please provide the title of the attached plan in Column D and the name of the entity who finalized the plan in Column E.	written proactive insp	oection program plan.	please provide the title	e of the attached

Page 10 of 18

SECTION VII.	VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE				
Α.		ن	Ō.	ш	Ľ
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	Proactive inspections performed by Polk County on behalf of a co- permittee for suspected illicit discharges / connections / dumping Proactive inspections performed by the permittee for suspected illicit discharges / connections / dumping	25 0		City of Auburndale Public Works	Performed weekley when going to job
	Illicit discharges / connections / dumping found during a proactive inspection Notices of Violation (NOVs) / warning letters / citations issued for illicit discharges / connections / dumping found during a proactive inspection	0 0			sites.
	Fines issued for illicit discharges / connections / dumping found during a proactive inspection	0			
	Annually review (and revise, as needed) and implement the permittee's written procedures to conduct reactive investigations to identify and eliminate the source(s) of an annually review (and revise, as needed) and implement the permittee's written procedures to conduct reactive investigations to identify and eliminate the source(s) of illicit discharges, illicit connections or improper disposal to the MS4, based on reports received from permittee personnel, critizens, or other entities regarding suspected illicit activity. Report on the reactive investigation program as it relates to 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. If a permittee relies on Polk County to conduct these activities on its behalf, the permittee shall obtain (and, upon request, Polk County shall make available) the necessary annual report information from the County.	ocedures to conduct re- trans received from perr it relates to respondir f illicit activities found, tee shall obtain (and,	active investigations t nittee personnel, contr ng to reports of suspec and the number and t upon request, Polk Co	o identify and eliminate actors, citizens, or othe ted illicit discharges, in the of enforcement acti unty shall make availab	the source(s) of r entities cluding the ons taken. If a le) the necessary
	<u>DEP Note:</u> If the number of reports received differs from the number of reactive investigations, please provide an explanation for the discrepancy in Column F. In addition, the permittee should re-word the "NOVs / waming letters / citations issued" reporting item to more accurately reflect its particular initial enforcement activity, if necessary.	ve investigations, plea ssued" reporting item t	se provide an explana o more accurately refl	tion for the discrepancy set its particular initial e	in Column F. In nforcement
	Reports received by Polk County of suspected illicit connections / discharges / dumping received Reports received by the permittee of suspected illicit connections /	0 0			
	discharges / dumping received Reactive investigations of reports of suspected illicit discharges/ connections / dumping	0 0			
	Illicit discharges / connections / dumping found during a reactive investigation	0			
	Notices of Violation (NOVs) / warning letters / citations issued for illicit discharges / connections / dumping found during a reactive investigation Fines issued for illicit discharges / connections / dumping found during a	0 0			
	During Year 1 of the permit, develop and implement a written plan for the training of all appropriate permittee personnel (including field crews, fleet maintenance staff, and inspectors) <u>and contractors</u> to identify and report conditions in the stormwater facilities that may indicate the presence of illicit discharges / connections / dumping to the MS4. Refresher training shall be provided annually. Report the type of training activities, and the number of permittee personnel and contractors trained (both inhouse and outside training).	of all appropriate perm facilities that may indi ing activities, and the	ittee personnel (includ cate the presence of il number of permittee p	ing field crews, fleet ma icit discharges / connec ersonnel and contracto	aintenance staff, ctions / dumping rs trained (both in-
	DEP Note: If "0" is reported for either reporting item, please include in Column F an explanation of why training was not provided to / obtained by personnel and	n F an explanation of I	why training was not pi	ovided to / obtained by	personnel and

Page 11 of 18

SECTION VII.	VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE	ENT PROGRAM (SWMI	P) SUMMARY TABLE				
A.		ю		ö	ō.	ш	Ľ.
Permit Citation/ SWMP Element	Permit Requiremer	Permit Requirement/Quantifiable SWMP	Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	contractors during the applicable reporting year, the most recent year that training was previously provided / obtained, and the names of the personnel and contractors previously trained.         contractors previously trained.         Personnel trained       6         Contractors trained       6         Contractors trained       6         Contractors trained       6	ble reporting year, the n Initial Training 6	nost recent year that train Refresher Training 9	ning was previously p	rovided / obtained, and	the names of the pers	onnel and
Part III.A.7.d	Illicit Discharges and Improper Disposal		Spill Prevention and Response				
	Annually review (and revise, as needed) and implement the permittee's written spill-prevention/spill-response plan and procedures to prevent, contain, and respond to spills that discharge into the MS4. Report on the spill prevention and response activities, including the number of spills addressed. If a permittee relies on the Polk County Fire Rescue or Fire Services Division to conduct these activities on its behalf, the permittee shall obtain (and, upon request, Polk County Fire Rescue/Fire Services Division shall make available) the necessary annual report information from the County.	eded) and implement th Report on the spill prev es Division to conduct th able) the necessary ann	<pre>ne permittee's written spil vention and response act hese activities on its beht ual report information fro</pre>	Il-prevention/spill-resp tivities, including the n alf, the permittee shall om the County.	onse plan and procedu umber of spills address I obtain (and, upon requ	res to prevent, contain ed. If a permittee relie lest, Polk County Fire	, and respond to ss on the Polk Rescue/Fire
	<u>DEP Note:</u> The permittee may report the number of hazardo number, to more accurately reflect its tracking of these spills.	y report the number of <i>h</i> eflect its tracking of thes	hazardous material spills separately from the number of non-hazardous material spills, <u>or</u> report one combined se spills.	separately from the n	umber of non-hazardou	is material spills, <u>or</u> re <sub>f</sub>	oort one combined
	Hazardous and r	Hazardous and non-hazardous material spills responded to	al spills responded to	2	Auburndale Fire Dept. Records	Auburndale Fire Dept.	
	During Year 1 of the permit, develop and implement a written plan for the training of all appropriate permittee personnel (including field crews, firefighters, fleet maintenance staff and inspectors) and contractors on proper spill prevention, containment, and response techniques and procedures. Refresher training shall provided annually. Report the type of training activities, and the number of permittee personnel and contractors training activities, and the number of permittee personnel and contractors trained (both in-house and outside training).	pp and implement a writi <u>and contractors</u> on prop of training activities, ar	ten plan for the training of the straining of the spill prevention, contrained the number of permitt	of all appropriate perm ainment, and respons ee personnel and con	iittee personnel (includii e techniques and proce itractors trained (both in	ng field crews, firefighters, fleet dures. Refresher training shall be -house and outside training).	ers, fleet ing shall be ining).
	<u>DEP Note:</u> If "0" is reported for either reporting item, please include in Column F an explanation of why training was not provided to / obtained by personnel and contractors during the applicable reporting year, the most recent year that training was previously provided / obtained, and the names of the personnel and contractors previously trained.	or either reporting item, , ble reporting year, the n	please include in Colum nost recent year that trai	n F an explanation of <sup>,</sup> ning was previously p	why training was nof pr rovided / obtained, and	ovided to / obtained by the names of the pers	personnel and onnel and
	Darconnel trained	Initial -	Refresher Training		Arthurndale Fire	Auhumdale Fire	
	Contractors trained	0 3	17		Dept. Records	Dept.	
Part III.A.7.e	Illicit Discharges and Improper Disposal -		oorting				
	During Year 1 of the permit, develop and implement a written public education and outreach program plan 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 education and outreach activities that are performed or sponsored by the permittee within the permittee's jurisdiction to encourage the public reporting of suspected illicit discharges and improper disposal of materials, including the type and number of activities by the permittee within the permittee's jurisdiction to encourage the public reporting of suspected illicit discharges and improper disposal of materials, including the type and number of activities by the permittee by the activities in total, and the number of Web site visits (if applicable).	pp and implement a writ mproper disposal of mai ee's jurisdiction to encol d, the type and number (	tten public education and outreach program plan to promote, publicize, and facilitate public reporting of the terials into the MS4. Report on the public education and outreach activities that are performed or sponsored urage the public reporting of suspected illicit discharges and improper disposal of materials, including the type of materials distributed, the percentage of the population reached by the activities in total, and the number of	I outreach program pla port on the public edu g of suspected illicit di the percentage of the	an to promote, publicize cation and outreach act ischarges and improper population reached by t	, and facilitate public r ivities that are perform disposal of materials, the activities in total, ar	eporting of the ed or sponsored including the type nd the number of
	<u>DEP Note:</u> The permittee should "customize" the list of public outreach activities by removing items or adding items to the list below as appropriate to their particular public outreach program. However, the reporting item of "Estimated percentage of the population reached by the activities in total" must remain. The permittee may add more specifics to the reporting items, such as the name of the brochure or newsletter distributed. If "O" is reported in Column C for all the reporting items, please include in Column F an explanation for why no outreach was performed.	uld "customize" the list gram. However, the rep iffcs to the reporting iter e in Column F an explar	of public outreach activities by removing items or adding items to the list below as appropriate to their orthin orting item of "Estimated percentage of the population reached by the activities in total" must remain. The, such as the name of the brochure or newsletter distributed. If "0" is reported in Column C for all the nation for why no outreach was performed.	ies by removing items I percentage of the po the brochure or news ch was performed.	or adding items to the pulation reached by the letter distributed. If "0" i	list below as appropria s activities in total" mus s reported in Column (	te to their t remain. The C for all the
	DEP Note: Polk County is to report the public education and outreach activities that it performed county-wide (and not just in the unincorporated areas of Polk	report the public educat	ion and outreach activitie	es that it performed co	unty-wide (and not just	in the unincorporated	areas of Polk

Page 12 of 18

SECTION VII.	STORMWATER MANAGEMENT	C.		Ľ	
A. Permit Citation/ SWMP	D. Permit Requirement/Quantifiable SWMP Activity	Number of Activities	D. Documentation / Record	E. Entity Performing the	Comments
Element		Performed	5	Activity	
	County). The co-permittees are to report just the public education and outreach activities that they performed	n activities that they	performed.		
********	Estimated percentage of the population reached by the activities in total	0			
	Publicize the Polk County or local Pollution Complaint Hotline	0			
	Brochures/Flyers/Fact Sneets alsurbuted Noizhhorhood arosontations: Niumhor conducted				
	Neighborhood presentations: Number of participants				
	Newspapers & newsletters: Number of articles/notices published	0			
	Newsletters: Number of newsletters distributed	0			
	Public displays (e.g., kiosks, storyboards, posters, etc.)	0			
110	Radio or television Public Service Announcements (PSAs)	0			
	School presentations: Number conducted	0			
	School presentations: Number of participants	0			
	Seminars/Workshops: Number conducted	0			
	Seminars/Workshops: Number of participants	0			
	Special events: Number conducted	0			
	Special events: Number of participants	0			
	Web Site: Number of visitors to the stormwater-related pages	128	City Web Site	City Of	
		-40	Counter	Auburndale	
Part III.A.7.f	Illicit Discharges and Improper Disposal — Oils, Toxics, and Household Hazardous Waste Control	dous Waste Contr	0		
	en public education	outreach program pl	an to encourage the pro	per use and disposal	of used motor
	vehicle fluids, lettover hazardous household products, and lead acid batteries. Report on the public education and outreach activities that are performed of sponso	ort on the public edu	Report on the public education and outreach activities that are performed or sponsored of alicenses of alicenses and household hazardous waste including the two and	IVITIES THAT ARE PERIOFIT	ned or sponsored
	by the pertinuee within the pertinuee's junstitution to encourage the proper use and usposed of one, toxics, and modes interaction wave, incouraging the type and number of activities conducted, the type and number of materials distributed, the amount of waste collected / recycled / properly disposed, the percentage of the	nount of waste collec	cs, and nousenous naza	r disposed, the percen	tage of the
	population reached by the activities in total, and the number of Web site visits (if applicable)	olicable).			
	DEP Note: The nermittee should "customize" the list of outreach activities by removing items or adding items to the list below as appropriate to their	es bv removina item.	s or adding items to the	list below as approprie	ate to their
	particular public outreach program. However, the reporting items of "Estimated percentage of the population reached by the activities in total" and "Household	percentage of the p	population reached by th	e activities in total" an	d "Household
	Chemical Collection Center Program: Amount of waste collected / recycled / properly disposed (tons)" must remain. The permittee may add more specifics to the	operly disposed (ton	is)" must remain. The p	ermittee may add mor	e specifics to the
	reporting items, such as the name of the brochure or newsletter distributed. If " explanation for why no outreach was performed.	0" is reported in Coli	umn C for all the reportir	ıg items, please incluc	ie in Column ⊢ an
		م الم مستوسس الم الم الم	غدينة فحصط محصرا حامشين بالمست		
	<u>DEP NOTE</u> . POIX COUNTY IS TO REPORT THE PUBLIC EQUCATION and OUTPEACH ACTIVITIES THAT THEY DERFORMED (AND TOTION DUE) TO ACTIVITIES OF ACTIVITIES THAT THEY DERFORMED	s unat it periorined of h activities that they	Juniy-wide (anu norjusi nerformeri	ווו וווב מוווורסו הסומובח	מומסא כו דכוא
	Estimated percentage of the population reached by the activities in total	1.5			
	Household Chemical Collection Center Program: Amount of waste	0			
	collected / recycled / properly disposed (tons)				
	Household Chemical Collection Center Program: Events	4	Website	Polk County Waste	
	Household Hazardous Waste Materials Guides distributed	0			
	Brochures/Flyers/Fact sheets distributed	0			

Page 13 of 18

SECTION VII.	VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE				
A.		Ċ	Ġ	ш	Ľ
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	Neighborhood presentations: Number conducted Neighborhood presentations: Number of participants Newspapers & newsletters: Number of articles/notices published Newspapers & Newsletters: Number of newsletters distributed	0000			
*******	Public displays (e.g., kiosks, storyboards, posters, etc.)	0			
	School presentations: Number conducted School presentations: Number of participants Seminars/Morkshops: Number conducted	1200			
	Seminars/Workshops: Number of participants	0			
	Special events: Number conducted Special events: Number of participants	00			
	Storm sewer inlets newly marked/replaced Web Site: Number of visitors to the stormwater-related pages	128	City Web Site	City Of	
Part III A 7 n	Illicit Discharges and Improper Disposal — Limitation of Sanitary Sewer Seepage	age	00011161		
	Annually review (and revise, as needed) and implement the permittee's written procedures to reduce or eliminate <u>sanitary wastewater contamination into the MS4</u> , including discharges to the MS4 from sanitary sewer overflows (SSOs) and from inflow / infiltration from collection / transmission systems and/or septic tank systems. Advise the appropriate utility owner of a violation if constituents common to wastewater contamination are discovered in the MS4. Report on the type and number of activities undertaken to reduce or eliminate SSOs and influration, the number of SSOs or inflow / infiltration incidents found and the number resolved, and the name of the owner of the sanitary sewer system within the permittee's jurisdiction.	edures to reduce or itom / infiltration from ater contamination ar of SSOs or inflow / it of SSOs or inflow / it	eliminate <u>sanitary waste</u> collection / transmissior e discovered in the MS. infiltration incidents four	ewater contamination i n systems and/or septi 4. Report on the type nd and the number res	nto the MS4, c tank systems. and number of solved, and the
2010 (J. 100)	<u>DEP Note</u> : The permittee needs to "customize" this section as it pertains to the type of activities undertaken to reduce or eliminate SSOs and inflow / inflitration into the MS4. The first five reporting items below are <u>examples</u> .	type of activities un	dertaken to reduce or e.	liminate SSOs and infl	low∕infitration
	<u>DEP Note:</u> The permittee should contact the appropriate authorities for accurate reporting information, such as the sanitary sewer system operator who is responsible for investigating and eliminating SSOs and the local health department who is responsible for permitting / overseeing septic tank systems.	te reporting informati 1ent who is responsil	ion, such as the sanitar) ble for permitting / overs	v sewer system operai seeing septic tank syst	tor who is tems.
	<u>DEP Note:</u> Report only the SSOs and inflow / inflitration incidents into the MS4.				
	Activity to reduce/eliminate SSOs and inflow / infiltration: Sanitary sewer pipe inspected for infiltration (linear feet)	1800	Waste Water Report	Waste Water Dept	
	Activity to reduce/eliminate SSOs and inflow / infiltration: Sanitary sewer pipe sealed. lined. and / or replaced (linear feet)	7000	Waste Water Report	Waste Water Dept.	
	Activity to reduce/eliminate SSOs and inflow / infiltration: Sanitary sewer line breaks repaired	9	Waste Water Report	Waste Water Dept.	
	Activity to reduce/eliminate SSOs and inflow / infiltration: Septic systems removed	0			
	Activity to reduce/eliminate SSOs and inflow / infiltration: Emergency generator added	0	Waste Water Report	Waste Water Dept.	
	SSO incidents discovered	0	Waste Water Report	Waste Water	

Page 14 of 18

OGRAM (SWMP) SUMMARY TABLE	Permit Requirement/Quantifiable SWMP Activity Documentation / Entity Performing the Comments Record Activity Performed	SSO incidents resolved     0     Dept.       Inflow / infiltration incidents discovered     0     Waste Water Report     Dept.       Inflow / infiltration incidents resolved     0     0     Dept.       Name of owner of the sanitary sewer system     City Of Auburndale	Industrial and High-Risk Runoff — Identification of Priorities and Procedures for Inspections	<ul> <li>Continue to maintain an up-to-date inventory of all existing high risk facilities discharging into the permittee's MS4. The inventory shall identify the outfall and surface water body into which each high risk facility discharges. For the purposes of this permit, high risk facilities include: <ul> <li>Operating municipal landfills;</li> <li>Hazardous waste treatment, storage, disposal and recovery facilities;</li> <li>Hazardous waste treatment, storage, disposal and recovery facilities;</li> <li>Facilities that are subject to EPCRA Title III, Section 313 (also known as the Toxics Release Inventory (TRI) maintained by the U.S. EPA); and</li> <li>Any other industrial or commercial discharge that the permittee determines is contributing a substantial pollutant loading to the permittee's MS4. This could include facilities include through the proactive inspection program as per Part III.A.7.c of the permit.</li> </ul> </li> </ul>	Report on the high risk facilities inventory, including the type and total number of high risk facilities and the number of facilities newly added each year. If a permittee relies on Polk County to conduct these activities on its behalf, the permittee shall obtain (and, upon request, Polk County shall make available) the necessary annual report information from the County.	DEP Note: The TRI is updated every spring / summer by the U.S. EPA at www.epa.gov/triexplorer. Select "Facility" on the left, chose your Geographic Location, and then select "Generate Report." Please indicate in Column F when (month / year) you last checked EPA's TRI for applicable facilities.	During Year 1 of the permit, develop and implement a written plan for conducting inspections of high risk facilities to determine compliance with all appropriate aspects of the stormwater program. While the permittee may determine the order and frequency of the inspections, the permittee shall inspect each identified facility at least once during the permit term; however, facilities identified as high risk due to the findings of the proactive inspection program as per Part III.A.7.c of the permit shall be inspected annually. Report on the high risk facilities inspection program, including the number of inspections conducted and the number and type of enforcement actions taken. If a permittee relies on Polk County to conduct these activities on its behalf, the permittee shall obtain (and, upon request, Polk County shall make available) the necessary annual report information from the County.	DEP Note: If "0" is reported 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 should re-word the "NOVs / warning letters / citations issued" reporting item to more accurately reflect its particular initial enforcement activity, if necessary.	DEP Note: Polk County is to report ONLY the inventory of high risk facilities in the unincorporated areas of Polk County – the inventory of high risk facilities located in the co-permittees' jurisdictions are to be reported by the co-permittees. Likewise, the County is to report ONLY the high risk facility inspections it performed in the unincorporated areas of Polk County is to report ONLY the high risk facility inspections it performed in the unincorporated areas of Polk County is to report ONLY the high risk facility inspections it co-permittees. Each co-permittee is to obtain the necessary information from Polk County that pertains to its jurisdictions are to be reported by the co-permittees. Each co-permittee is to obtain the necessary information from Polk County that pertains to its jurisdiction.
ON VII.	A. Permit Citation/ SWMP Element		Part Industrial and Hig	Continue water boc	Report on the high relies on Polk Cour report information 1	<u>DEP Note:</u> TF and then sele	During Year 1 of th of the stormwater p once during the pe inspected annually actions taken. If a available) the nece	<u>DEP Note:</u> If Column F for I accurately refl	<u>DEP Note</u> : Po located in the performed in t co-permittees.

SECTION VII. A	VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE	Y TABLE	с С	C	Line and the second sec	Ľ
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity		Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
		Fines issued	Notices of Violation (NOVs) / warning letters / citations issued			
	Total high risk facilities       1         New high risk facilities added to the inventory during the current reporting period       0					
	EPCRA Title III, Section 313 facilities (that are not landfills or HWTSDR facilities)					None In City
	Facilities determined as high risk by the permittee through the proactive inspections 0 as per Part III.A.7.c					
	Other facilities determined as high risk by the permittee (that are <u>not</u> facilities identified 1 through the proactive inspections)				Public Works	Auburndale Fleet Maint.
Part III.A.8.b	Industrial and High-Risk Runoff — Monitoring for High Risk Industries	tries				
	Sampling of the discharge to the stormwater system 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. Report the number of high risk facilities sampled.	on an as-nee 40 CFR 122 specific mon	aded basis in the even 2.26(d)(2)(iv)(C) must l itoring. Report the nu	it that inspections of hig be evaluated to determi umber of high risk faciliti	h-risk facilities disclos ine if the new discharg ies sampled.	e suspected illicit je is contributing a
	Site Inspection Indicated No Monitoring Required					
	<u>DEP Note:</u> Polk County is to report ONLY the number of high risk facilities in the unincorporated areas of Polk County that were sampled – the high risk facilities located in the co-permittees' jurisdictions that were sampled by the County are to be reported by the co-permittees.	lities in the <i>t</i> unty are to <i>t</i>	inincorporated areas contended by the co-t	of Polk County that were permittees.	e sampled – the high r	isk facilities
	High risk facilities sampled	s sampled	0		Polk County Water Resources	
Part III.A.9.a	Construction Site Runoff — Site Planning and Non-Structural and Structural Best Management Practices	l Structural	Best Management Pı	ractices		
	Continue to implement the local codes or land development regulations and the written pre-construction site plan review procedures that require the use and maintenance of appropriate structural and non-structural erosion and sedimentation controls during construction to reduce the discharge of pollutants to the MS4. Report the number of permittee and private pre-construction site plans reviewed for stormwater, erosion, and sedimentation controls, and the number of permittee and private pre-construction site plans reviewed for stormwater, erosion, and sedimentation controls, and the number approved.	is and the wr sedimentatio	itten pre-construction n controls during cons <u>r stormwater, erosion</u> ,	site plan review proced struction to reduce the d , and sedimentation con	lures that require the t discharge of pollutants <u>itrols</u> , and the number	tse and to the MS4. approved.
	<u>DEP Note:</u> Please provide an explanation in Column F for any "0" reported in Column C.	" reported in	Column C.			
	PERMITTEE SITES: Construction site plans reviewed	s reviewed	~	BZ Report	City Of Auburndale BZ	
	PERMITTEE SITES: Construction site plans approved	approved	~	BZ Report	City Of Auburndale BZ	
	1					

Page 16 of 18

SECTION VII.	I VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE	L	C	u	Ľ
Permit Citation/ SWMP Element	Permit Requirement/Q	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	PRIVATE SITES: Construction site plans reviewed	12	BZ Report	City Of Auburndale BZ	
	PRIVATE SITES: Construction site plans approved	12	BZ Report	City Of Auburndale BZ	
	Annually review (and revise, as needed) and implement the permittee's written procedures to notify all new development / redevelopment permit applicants of the need to obtain all required stormwater permits. Report the number of new development/redevelopment permit applicants notified of the ERP and CGP, and the number of applicants who confirmed ERP and CGP coverage.	cedures to notify all ne redevelopment permit	ew development / redev t applicants notified of th	relopment permit applic he ERP and CGP, and	ants of the need the number of
	<u>DEP Note:</u> Please provide an explanation in Column F for any "0" reported in Column C. If the number of applicants notified of ERP or CGP coverage is less than the number of construction site plans reviewed, please provide an explanation for the discrepancy in Column F.	Column C. If the num for the discrepancy in	nber of applicants notifient column F.	ed of ERP or CGP cove	erage is less than
	Notified of ERP stormwater permit requirements	10	BZ Report	City Of Auburndale BZ	
	Confirmed ERP coverage	10	BZ Report	City Of Auburndale BZ	
	Notified of CGP stormwater permit requirements	10	BZ Report	City OF Auburndale BZ	
	Confirmed CGP coverage	0	BZ Report	City Of Auburndale BZ	
Part III.A.9.b	Construction Site Runoff — Inspection and Enforcement				
	As an attachment to the Year 1 Annual Report, the permittee shall submit a written plan that details the standard operating procedures for implementation of the stormwater, erosion and sedimentation inspection program for construction sites discharging stormwater to the MS4. The permittee shall implement the plan for inspecting construction sites <u>immediately upon written approval by the Department</u> . Prior to Department approval, the permittee shall implement inspections in accordance with its previously developed construction site inspection procedures. Report on the inspection program for privately-operated and permittee-operated construction site inspection sites during the reporting year, the number of inspections of active construction sites, the percentage of active construction sites inspected, and the number and type of enforcement actions / referrals taken.	plan that details the s scharging stormwater Prior to Department Report on the inspect ring year, the numbe s / referrals taken.	standard operating proc to the MS4. The perm approval, the permittee ion program for privatel r of inspections of activ	edures for implementati ittee shall implement th s shall continue to perfo ly-operated and permitt e construction sites, the	tion of the te plan for orm inspections in tee-operated e percentage of
	<u>DEP Note</u> : 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. If the number of inspections reported is equal to or less than the number of active construction sites, or the percentage inspected is less than 100%, please provide an explanation in Column F. In addition, the permittee should re-word the "NOVs / warning letters / citations issued" reporting item to more accurately reflect its particular initial enforcement activity, if necessary.	cted, please provide a umber of active const e-word the "NOVs / w	ın explanation in Colum truction sites, or the per /arning letters / citation	n F of why no inspectio centage inspected is le s issued" reporting item	ns were sss than 100%, to more
	<u>DEP Note:</u> Refer to Part III.A.9.b of the permit for what must be included in the construction site inspection program plan. Please provide the title of the attached plan in Column D and the name of the entity who finalized the plan in Column E.	t construction site ins, E.	section program plan. H	Please provide the title (	of the attached
	PERMITTEE SITES: Active construction sites	~	BZ Report	City Of Auburndale BZ	
	PERMITTEE SITES: Inspections of active construction sites for proper stormwater, erosion and sedimentation BMPs	3	BZ Report	City Of Auburndale BZ	
	PERMITTEE SITES: Percentage of active construction sites inspected	100	BZ Report	City Of Auburndale BZ	
	PRIVATE SITES: Active construction sites	5	BZ Report	City Of	

Page 17 of 18

SECTION VII.	I VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE	EMENT PROGRAM (SV	WMP) SUMM	ARY TABLE				
A.		Ö.			<del>ن</del>	D.	Ш	Ľ
Permit Citation/ SWMP Element		Permit Requirement/Quantifiable SWMP	MP Activity		Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
		and a second					Auburndale BZ	
	PRIVATE SITES: Ins	PRIVATE SITES: Inspections of active construction sites for proper stormwater. erosion and sedimentation BMPs	struction site and sedimen	es for proper tation BMPs	7	BZ Report	City Of Auburndale BZ	
	PRIVATE SITES: Pe	PRIVATE SITES: Percentage of active construction sites inspected	struction site	es inspected	100	BZ Report	City Of Auburndale BZ	
			Red	Red Tags issued	m	BZ Report	City Of Auburndale BZ	
		Notices of Vio		ation (NOVs) issued	e	BZ Report	City Of Auburndale BZ	
			Stop Work O	Work Orders issued	0	BZ Report	City Of Auburndale BZ	
				Fines issued	0	BZ Report	City Of Auburndale BZ	
	Year 1 ONLY: Attach the written construction site inspection program plan	ritten construction site	inspection p	rogram plan				
Part III.A.9.c	Construction Site Runoff —	-Site Operator Training	Egrin.					
	During Year 1 of the permit, develop and implement a written plan for stormwater training / outreach for construction site plan reviewers, site inspectors and site operators. Provide training for permittee personnel (employed by <u>or under contract with</u> the permittee) involved in the site plan review, inspection or construction of stormwater management, erosion, and sedimentation controls. Also provide training for private construction site operators. All permittee) of construction sites of construction sites shall be certified through the Florida Stormwater, Erosion and Sedimentation Control Inspector Training program, or an equivalent program approved by the Department. Refresher training shall be provided annually. Report the type of training activities, the number of inspectors, site plan reviewers and site operators trained (both in-house and outside training), and the number of private construction site operators trained by the Department. Refresher training shall be provided annually. Report the type of training activities, the number of inspectors, site plan reviewers and site operators trained (both in-house and outside training), and the number of private construction site operators trained (both in-house and outside training), and the number of private construction site operators trained by the permittee.	levelop and implement a r permittee personnel (er sion, and sedimentation ttee) of construction sites igram approved by the Du s and site operators train	written plan f mployed by <u>o</u> controls. Als s shall be cert epartment. R led (both in-hu	or storrtwater tr r under contrac: o provide trainir ified through the tefresher trainin ouse and outsid	raining / outreach for <u>t with</u> the permittee) ii ng for private construc e Florida Stormwater, ig shall be provided a e training), and the ni	construction site plan re nvolved in the site plan r tion site operators. All Erosion and Sedimenta nnually. Report the type umber of private constru	viewers, site inspectol eview, inspection or c permittee inspectors ( tion Control Inspector tion Control activities, e of training activities, iction site operators tr	rs and site construction of employed by or Training the number of ained by the
	<u>DEP Note:</u> If "0" is repor permittee's staff and priv.	<u>DEP Note:</u> If "0" is reported 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 construction site operators during the applicable reporting year.	nting items, p. rators during	items, please include in Column F an s during the applicable reporting year.	Column F an explan. eporting year.	ation of why training was	s not provided to / obti	ained by the
	<u>DEP Note:</u> The permittee then note in Column F th	<u>DEP Note:</u> The permittee should report only the number of staff and private construction site operators trained / certified during the applicable reporting year, and then note in Column F the number of staff who were previously trained / certified. Private site operator training can include pre-construction meetings.	number of sta ere previously	ff and private cc / trained / certifi	onstruction site opera	tors trained / certified du ator training can include	ring the applicable rep pre-construction mee	oorting year, and tings.
		Inspector Non-Ir Certification Trainii Training certif	Non-Inspector Initial Training (non- certification)	Refresher Training				
	Permittee construction site inspectors	2				BZ Records/ Public Works	City Of Auburndale BZ Dept.	
	Permittee construction site plan reviewers							
	Permittee construction site operators							

Page 18 of 18

SECTION	SECTION VII. STORMWATER MANAGEMENT PROGRAM (SWMP) SUMMARY TABLE	e e e	ſ		
A.	D	ن	Ċ	ш	1
Permit Citation/ SWMP Element	Permit Requirement/Quantifiable SWMP Activity	Number of Activities Performed	Documentation / Record	Entity Performing the Activity	Comments
	Private construction site operators				

Page 19 of 18

ы В В	SECTION VIII. EVALU	EVALUATION OF THE STORMWATER MANAGEMENT PROGRAM (SWMP)
	Permit Citation/ SWMP Element	SWMP EVALUATION
	Part II.A.1	Strengths: Most work is done by city's Public Works crew.
	structural control	Weaknesses: None at This Time
	inspection and maintenance	SWMP Revisions to address deficiencies: N/A
		Strengths: Good records from the city's building /zoning dept.
	Part II.A.2 Significant	Weaknesses: None At this time
	reaevelopment	SWMP Revisions to address deficiencies: None at this time
		Strengths: The city's street Dept. makes every effort to keep the streets clean, Street sweeping program is active. Litter is now picked up daily. New street sweeper added better pickup.
	Part II.A.3 Roadways	Weaknesses: None at this time
¥	•	SWMP Revisions to address deficiencies: N/A
		Strengths: Pumps in place for flood control with back up.
	Part II.A.4 Flood control	Weaknesses: None at this time
		SWMP Revisions to address deficiencies N/A
		Strengths: Employees make every effort of keeping the facilities controls standards high.
	Part II.A.5 Waste TSD	Weaknesses: N/A
	Facilities	SWMP Revisions to address deficiencies: N/A
	Part II.A.6	Strengths: 4 Personal Trained
	herbicide,	
	application	

м Ш	SECTION VIII. EVALUA	
	Part II.A.7	Strengths: City's employee's trained in detection. Web site for public for information and reporting.
	Illicit Discharge Detection and	Weaknesses: None at this time
	Elimination	SWMP Revisions to address deficiencies: N/A
		Strengths: Cooperative efforts by city and county personnel.
	High Risk	Weaknesses: None at this time.
	Industry Kunoff	SWMP Revisions to address deficiencies: None at this time
	Part II.A.9	Strengths: City's employees report problems to our B/Z and Street Depts. 2 Personal have been trained
	Construction Site Runoff	Weaknesses: None at this time
	•	SWMP Revisions to address deficiencies: N/A
SE	SECTION IX. CHANGE	CHANGES TO THE STORMWATER MANAGEMENT PROGRAM (SWMP) ACTIVITIES (Not Applicable In Year 4)
	Permit Citation/	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.
¥	SWMP Element	<u>DEP Note:</u> There may be changes deemed necessary after developing / reviewing your plans and SOPs as per Part III.A of the permit, after completing your SWMP evaluation as per Part VI.B.2 of the permit, or due to a TMDL / BMAP as per Part VIII.B of the permit.
		No Plan Changes Proposed
	Permit Citation/ SWMD Flement	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) (Including the Rationale for the Change) DED Note: Them may be changed decessed offer developing / reviewing your plans and SODs as par Dar III.A of the normit after
ന്		completing your SWMP evaluation as per Part VI.B.2 of the permit, or due to a TMDL / BMAP as per Part VIII.B of the permit, area completing your SWMP evaluation as per Part VI.B.2 of the permit, or due to a TMDL / BMAP as per Part VIII.B of the permit.

No Plan Changes Proposed

CHECKLIS	T A: A	TTACHMENTS	CHECKLIST A: ATTACHMENTS TO BE SUBMITTED WITH THE ANNUAL REPORTS	
Below is a lis applicable fo	st of item r the curr	s required by the p rent reporting peric	Below is a list of items required by the permit that may need to be attached to the annual report. Please check the appropriate box to indicate whether the item is attached or is not applicable for the current reporting period. Please provide the number and the title of the attachments in the blanks provided.	indicate whether the item is attached or is not
Attached	N/A	Rule / Permit Citation	Attachment Attachment Nu	Attachment Number
	ŏ	Part II.F	EACH ANNUAL REPORT: If program resources have decreased from the previous year, a discussion of the impacts on the implementation of the SWMP.	
	Ď	Part III.A.1	EACH ANNUAL REPORT: An explanation of why the minimum inspection frequency in Table II.A.1.a was not met, if applicable.	
	ð	Part III.A.4	EACH ANNUAL REPORT: A list of the flood control projects that did <u>not</u> include stormwater treatment and an explanation for each of why it did not, if applicable.	
	ð	Part III.A.7.a	<b>EACH ANNUAL REPORT:</b> A report on amendments / changes to the legal authority to control illicit discharges, connections, dumping, and spills, if applicable.	
	ð	Part V.B.9	EACH ANNUAL REPORT: Reporting and assessment of monitoring results. [Also addressed in Section III of the Annual Report Form]	
	Ď	Part VI.B.2	<b>EACH ANNUAL REPORT:</b> An evaluation of the effectiveness of the SWMP in reducing pollutant loads discharged from the MS4 that, <u>at a minimum</u> , must include responses to the questions listed in the permit.	
	ă	Part VIII.B.3.e	EACH ANNUAL REPORT: A status report on the implementation of the requirements in this section of the permit and on the estimated load reductions that have occurred for the pollutant(s) of concern.	
	ð	Part VIII.B.4.f	EACH ANNUAL REPORT after approval of the BPCP: The status of the implementation of the Bacterial Pollution Control Plan (BPCP).	
	Ď	Part III.A.1	YEAR 1: An inventory of all known major outfalls and a map depicting the location of the major outfalls (hard copy or CD-ROM).	
	Ľ	Part III.A.3	YEAR 1: If have curbs and gutters but no street sweeping program, an explanation of why no street sweeping program and the alternate BMPs used or planned.	
	Ď	Part III.A.6	YEAR 1 or YEAR 2: A copy of the adopted Florida-friendly Ordinance, if applicable.	
	ŏ	Part III.A.7.c	YEAR 1: A proactive illicit discharge / connection / dumping inspection program plan.	
	ŏ	Part III.A.9.b	YEAR 1: A construction site inspection program plan. [For approval by DEP]	
	Ď	Part III.A.2	YEAR 2: A summary report of a review of codes and regulations to reduce the stormwater impact from new development / redevelopment.	
	Ď	Part V.A.2	YEAR 3: Estimates of annual pollutant loadings and EMCs, and a table comparing the current calculated loadings with those from the previous two Year 3 ARs.	
Ď		Part V.A.3	YEAR 4: If the total annual pollutant loadings have not decreased over the past two permit cycles, revisions to the SWMP, as appropriate.	
ň		Part V.B.3	YEAR 4: The monitoring plan (with revisions, if applicable).	
Ď		Part VII.C	YEAR 4: An application to renew the permit.	
ŏ		Part VIII.B.3.d	YEAR 4: A TMDL Implementation Plan / Supplemental SWMP.	

# CHECKLIST B: THE REQUIRED ANNUAL REVIEWS OF WRITTEN STANDARD OPERATING PROCEDURES (SOPS) & PLANS

Did not complete review of existing SOP / Plan	Developed <u>new</u> written SOP / Plan	Reviewed & <u>no revision</u> <u>needed</u> to existing SOP / Plan	Reviewed & <u>revised</u> existing SOP / Plan	Permit Citation	Description of Required SOPs / Plans
		ň		Part III.A.1	SOP and/or schedule of inspections and maintenance activities of the structural controls and roadway stormwater collection system.
		Ď		Part III.A.2	SOP for development project review and permitting procedures and/or local codes and regulations for new development / areas of significant development.
		ň		Part III.A.3	SOP for the litter control program.
		Ď		Part III.A.3	SOP for the street sweeping program.
		Ď		Part III.A.3	SOP for inspections of equipment yards and maintenance shops that support road maintenance activities.
		Ň		Part III.A.5	SOP for inspections of waste treatment, storage, and disposal facilities not covered by an NPDES stormwater permit.
		ŏ		Part III.A.6	Plan for public education and outreach on reducing the use of pesticides, herbicides and fertilizer.
		Ď		Part III.A.6	SOP for reducing the use of pesticides, herbicides and fertilizer, and for the proper application, storage and mixing of these products.
		Ď		Part III.A.7.c	Plan for proactive illicit discharge / connections / dumping inspections.*
		Ď		Part III.A.7.c	SOP for reactive illicit discharge / connections / dumping investigations.
		Ň		Part III.A.7.c	Plan for illicit discharge training.
		Ň		Part III.A.7.d	SOP for spill prevention and response efforts.
		Ď		Part III.A.7.d	Plan for spill prevention and response training.
		×		Part III.A.7.e	Plan for public education and outreach on how to identify and report the illicit discharges and improper disposal to the MS4.
		Ď		Part III.A.7.f	Plan for public education and outreach on the proper use and disposal of oils, toxics and household hazardous waste.
		ð		Part III.A.7.g	SOP to reduce / eliminate sanitary wastewater contamination of the MS4.
		ŏ		Part III.A.8	SOP for inspections of high risk industrial facilities.
		ň		Part III.A.9.a	SOP for construction site plan review for stormwater, erosion and sedimentation controls, and ERP and CGP coverage.
		Ň		Part III.A.9.b	Plan for inspections of construction sites.*
		Ĺ	L		

\* Revisions to these plans require DEP approval – please complete Section VIII.A of the annual report.

REMINDER LIST OF THE TI	T OF THE TMDL / BMAP REPORTS TO BE SUBMITTED <u>SEPARATELY</u> FROM AN ANNUAL REPORT	EPORT
Rule / Permit Citation	Report Title	Due Date
Part VIII.B.3.a	Part VIII.B.3.a 6 MONTHS from effective date of permit: TMDL Prioritization Report.	
Part VIII.B.3.b 12 MONTHS	12 MONTHS from effective date of permit: TMDL Monitoring and Assessment Plan.	
Part VIII.B.3.c	Part VIII.B.3.c 6 MONTHS from receiving analyses from the lab: TMDL Monitoring Report.	TBD
Part VIII.B.4 30 MONTHS	30 MONTHS from start date per TMDL Prioritization Report: A Bacterial Pollution Control Plan (BPCP).	TBD

## **BMAP Reporting**

MS4 permittees are NOT required to submit the annual report required by any BMAP that applies to them since the NPDES Stormwater Staff can obtain them from the department's Watershed Planning and Coordination staff. However, to assure that the stormwater staff are aware of which BMAPs apply to the MS4 permittees and when the latest BMAP annual report was submitted, please complete the information below, if applicable:

Rule/Permit BMAP Title	BMAP Title	Date BMAP
Citation		Annual Report
		Submitted to
		DEP
Part VIII.B.2		

# END OF REVISED TAILORED MS4 AR FORM CYCLE 3 PERMIT

## TMDL Implementation Plan (Lake Lena)

DEP Permit Number: FLS000015-003



Prepared for

CITY OF AUBURNDALE 1 Bobby Green Plaza Auburndale, Florida 33873

Prepared by

CHASTAIN-SKILLMAN, INC. Certificate of Authorization No. 262 4705 Old Highway 37 Lakeland, Florida 33813

> Kevin K. Albrecht, P.E. Florida P.E. No. 74709

CSI File No. 9185.28 March, 2016

## Table of Contents

1.	INTRO	DDUCTION	2
	1.2.	Lake Lena TMDL	2
2.	WATE	ERSHED INFORMATION	
	2.2.	City's MS-4 Outfalls and Drainage Areas	
	2.3.	Land Use Coverage	6
	2.4.	Hydrologic Soil Coverage	6
3.	BASE	LINE WATERSHED POLLUTANT LOADING ESTIMATES	
	3.1.	Pollutant Loading Parameterization	8
	3.2.	Rainfall/Runoff	
	3.3.	Event Mean Concentrations	8
	3.4.	Gross Pollutant Loading Calculation	11
	3.5.	Results of Pollutant Loading Estimates	11
	3.6.	Storm Event Sampling Summary	12
4.	IMPLE	EMENTATION STRATEGIES	13
	4.1.	City's Load Reduction	13
	4.2.	Proposed Activities	13
5.	CONC	LUSION	15

## List of Figures

Figure 2-1	Lake Drainage Areas	4
Figure 2-2	Lake Lena MS-4 Outfalls and Drainage Areas	5
Figure 2-3	Lake Lena Drainage Area	5
Figure 2-4	Lake Lena Land Use	7
Figure 2-5	Lake Lena Soils	7
Figure 3-1	Mean Annual Rainfall Map	10
Figure 4-1	Lake Lena Street Sweeping Inventory	15

## List of Tables

Table 2-1	Lake Lena MS-4 Outfall Summary	3
Table 2-2	Lake Lena Land use Summary	6
Table 3-1	CN and DCIA Lookup Table	9
Table 3-2	Mean Annual Runoff Coefficients as a Function of CN and DCIA	9
Table 3-3	Event Mean Concentration Input Values	10
Table 3-4	Pollutant Loading Estimates	11
Table 3-5	AUB-44B Storm Event Sampling	12
Table 3-4	Revised Annual Loading Summary	13

## 1. INTRODUCTION

## 1.1. Purpose

As part of the City of Auburndale's (the "City") NPDES Municipal Separate Storm Sewer System (MS4) permit (FLS000015), Part VIII.B.3.b, the City is required to develop a Total Maximum Daily Load (TMDL) Implementation Plan for its priority waterbody. The Implementation Plan should identify structural and non-structural management strategies necessary to reduce nutrient loads and help address the TMDL, to the maximum extent practicable. It should be noted that the City is only responsible for reducing the anthropogenic loads associated with stormwater outfalls it owns or otherwise has responsible control over. It is not responsible for reducing other non-point source (NPS) loads in its jurisdiction.

The City currently has jurisdiction over MS-4 outfalls directly discharging into two (2) waterbodies with established TMDLs, Lake Lena and Lake Ariana. The City's TMDL Waterbody Prioritization Report, April 2015, identified Lake Lena as the City's top priority TMDL waterbody.

## 1.2. Lake Lena TMDL

The Florida Department of Environmental Protection (FDEP) most recently adopted a TMDL for Lake Lena in March 2015. The Lake Lena TMDL evaluated in-lake WQ monitoring and rainfall data collected between 1999 and 2012, to determine the TMDL target TN concentration. It defines an annual geometric mean in-lake TN Concentration of 1.14 mg/L to meet applicable water quality standards. To determine the load reduction needed to meet the TMDL, an estimate of existing nutrient loading is needed. The FDEP TMDL report utilized the maximum annual geometric mean TN concentration between 2002 and 2012 of 1.98 mg/L (2009) as existing conditions. Based on the need to reduce in-lake concentrations from 1.98mg/L to 1.14 mg/L, a 42% reduction in Lake Lena's TN concentration was calculated. The TMDL noted Polk County and the City of Auburndale may be responsible for a 42% TN reduction in current anthropogenic loads.

However, the TMDL report also concludes that issues other than external anthropogenic nutrient loads may be influencing the lake's water quality. This would include such factors as lake hydraulic residence time and internal cycling of nutrients. If in-lake sources are influencing the TN and TP concentrations in the lake, the City may not necessarily be responsible to achieve the entire 42% reduction by addressing external anthropogenic loads within its outfall drainage basins.

## 2. WATERSHED INFORMATION

## 2.1. Project Location

Lake Lena is located in western Polk County, along the north side of US-92, just east of the Polk Parkway. The lake receives runoff from an 830 acre drainage area in addition to surface water flows from Lakes Ariana, Whistler, and Arietta, an additional 4,300 acres. Figure 2-1 shows the individual drainage area of each lake. For the purposes of this plan, analysis will focus on reducing external anthropogenic loads discharging directly to Lake Lena from its 830 acre drainage area.

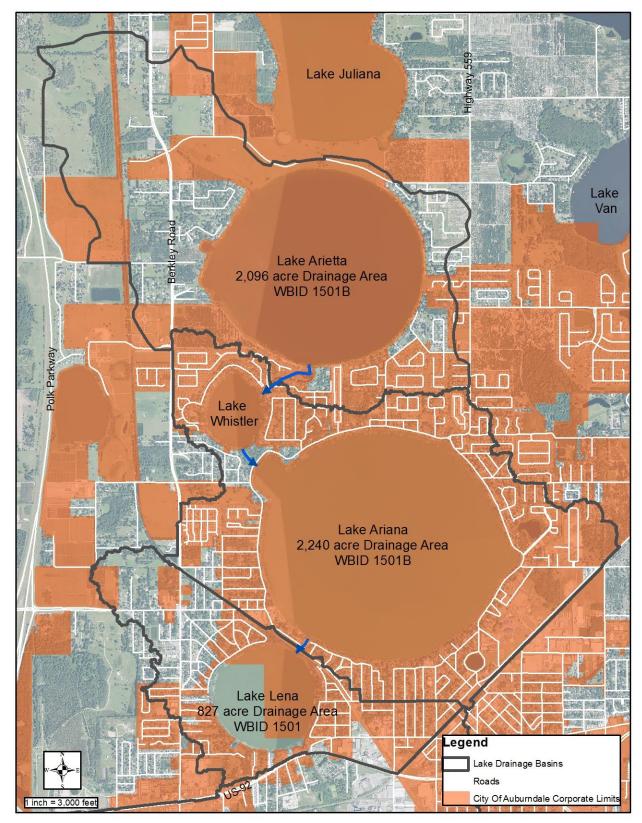
## 2.2. <u>City's MS-4 Outfalls and Drainage Areas</u>

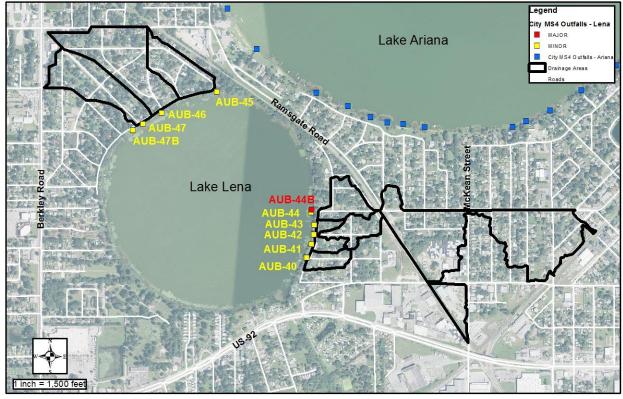
Based on the City's outfall inventory map and field site visits, the location, classification, type and size of each of the City's ten (10) MS-4 outfalls have been identified and shown in **Table 2-1**. Of the City's 10 MS-4 outfalls, only AUB-44B is considered "Major". **Figure 2-2** and **Figure 2-3** show the location and drainage area of the City's MS-4 outfalls which discharge into Lake Lena. The City's MS-4 outfalls drain approximately 138 acre or 17% of Lake Lena's drainage area.

Outfall ID	Туре	Classification	Description	Drainage Area (Acres)			
AUB-40	PIPE	MINOR	18" RCP	4.1			
AUB-41	PIPE	MINOR	18" RCP	2.5			
AUB-42	PIPE	MINOR	15" RCP	6.5			
AUB-43	PIPE	MINOR	15" RCP	1.5			
AUB-44	PIPE	MINOR	18" RCP	7.93			
AUB-44B	PIPE	MAJOR	18" RCP w/Industrial	58.3			
AUB-45	AUB-45 PIPE MINOR 18" RCP						
AUB-46	PIPE	MINOR	18" RCP	26.4			
AUB-47	PIPE	MINOR	18" RCP	18.1			
AUB-47B	PIPE	MINOR	15" RCP	0.3			
			TOTAL	138.1			

## Table 2-1 Lake Lena MS-4 Outfall Summary

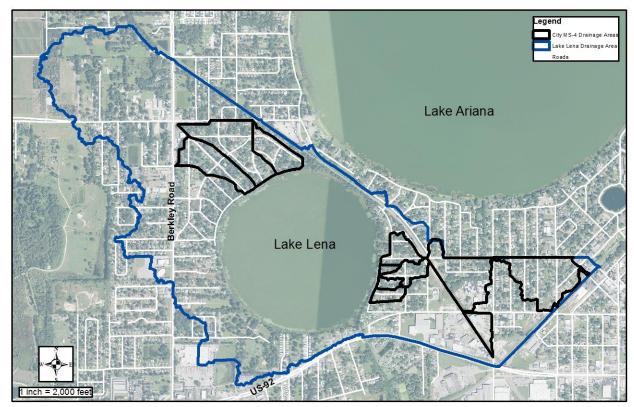
## Figure 2-1 Lake Drainage Areas





## Figure 2-2 Lake Lena MS-4 Outfalls and Drainage Areas

Figure 2-3 Lake Lena Drainage Area



## 2.3. Land Use Coverage

The land use coverage was obtained from SWFWMD. As shown on **Figure 2-4** land use within the drainage areas is highly developed, consisting mostly of residential with some commercial and industrial areas. It should be noted that Lake Lena's surface area itself accounts for approximately 210 acres (25%) of the watershed.

## Table 2-2 Lake Lena Land use Summary

Land Use	Area (Acres)
Citrus	8.4
General Agriculture	8.8
High-Intensity Commercial	13.9
Highway	28.9
Light Industrial	60.0
Low-Density Residential	21.3
Low-Intensity Commercial	70.9
Multi-Family	31.8
Open Water / Lake	199.3
Pasture	24.3
Single-Family	328.6
Undeveloped / Rangeland / Forest	18.3
Wetland	12.8

## 2.4. Hydrologic Soil Coverage

The soil coverage was obtained from Polk County's GIS data library and is based on the United States Department of Agriculture - Natural Resource Conservation Services (Formerly USDA/SCS) soil maps. The hydrologic soil group ("HSG") coverage, shown as **Figure 2-5**, shows the pervious areas of Lake Lena's drainage areas are well drained and consist almost entirely of HSG A and A/D.

## Figure 2-4 Lake Lena Land Use

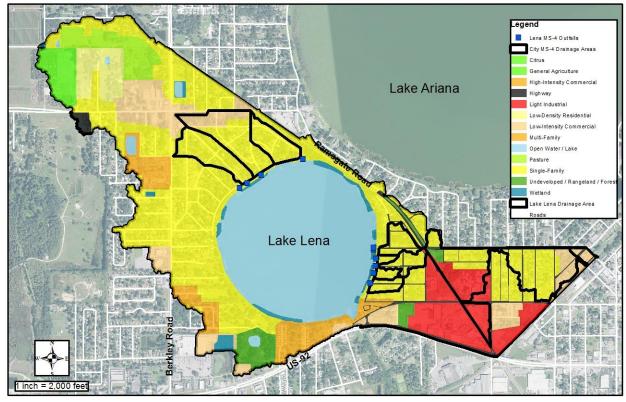
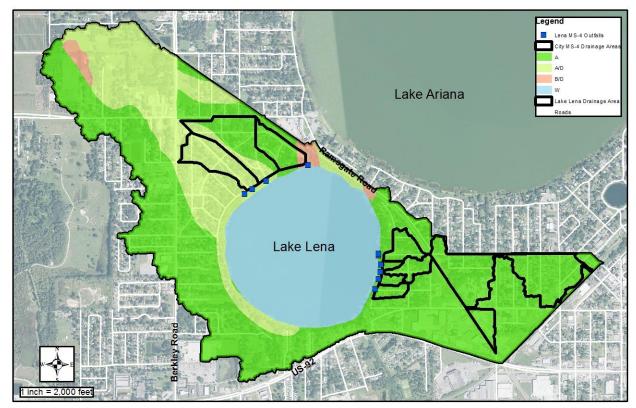


Figure 2-5 Lake Lena Soils



## 3. Baseline Watershed Pollutant Loading Estimates

## 3.1. Pollutant Loading Parameterization

An Event Mean Concentration ("EMC") based method for estimating the quantity of pollutants carried downstream by stormwater runoff was utilized for these analyses. The method is used to identify where pollutant loads are likely being produced. Average yearly pollutant loads have been estimated for Total Nitrogen ("TN"), Total Phosphorous ("TP").

## 3.2. Rainfall/Runoff

EMC based pollutant loading estimates are highly dependent on the amount of runoff produced over the drainage area. Using the mean annual rainfall map provided as **Figure 3-1**, a 50-inch mean annual rainfall depth was selected based on the project location. The 50-inch mean annual rainfall depth is then converted to a mean annual runoff depth. Based on the land use/soil combination, a non-DCIA CN and DCIA percentage is selected using **Table 3-1**. The CN/DCIA combination is converted to a runoff coefficient ("C") using **Table 3-2**. Zone 2 runoff coefficients were selected based on data provided by Polk County. A 10% initial abstraction values was used based on standard literature.

The following formula was applied to calculate the annual runoff depth:

Annual Runoff (in) = 0.9 \* Runoff Coefficient (C) \* Annual Rainfall (in)

## 3.3. Event Mean Concentrations

The concentration of pollutant loads is specific to the type of land use, where the runoff is being produced. Monitoring and field measurement of the pollutant concentrations from runoff produced by various Florida land use types has been compiled and converted to standardized EMC values, expressed in milligrams/liter ("mg/L"). The EMC values are multiplied by the yearly runoff volume to calculate a mass of pollutants, expressed as pounds/year ("lb/yr"). The land use specific EMC values utilized for this project are based on those provided by the Phase I MS-4 Permit Resource Manual and included as **Table 3-3**.

FLUCC Code	Land Use Description	А	A/D	B/D	DCIA
1400	COMMERCIAL AND SERVICES	39	39	61	85
2100	CROPLAND AND PASTURELAND	39	80	80	0
6440	EMERGENT AQUATIC VEGETATION	98	98	98	100
6410	FRESHWATER MARSHES	98	98	98	100
1500	INDUSTRIAL	39	39	61	72
1700	INSTITUTIONAL	39	39	61	65
6530	INTERMITTENT PONDS	98	98	98	100
5200	LAKES	98	98	98	100
2400	NURSERIES AND VINEYARDS	67	89	89	5
1900	OPEN LAND	39	80	80	0
2600	OTHER OPEN LANDS <rural></rural>	39	80	80	0
1800	RECREATIONAL	39	80	80	10
5300	RESERVOIRS	98	98	98	100
1300	RESIDENTIAL HIGH DENSITY	39	39	61	50
1100	RESIDENTIAL LOW DENSITY < 2 DWELLING UNITS	39	39	61	20
1200	RESIDENTIAL MED DENSITY 2->5 DWELLING UNIT	39	39	61	25
8100	TRANSPORTATION	83	83	89	25
2200	TREE CROPS	39	79	79	10

## Table 3-1 CN and DCIA Lookup Table

Table 3-2 Mean Ann	al Runoff Coefficients as a Function of CN and DCIA
--------------------	---

										Zor	e 2										
							Mean	Annual	Runoff			Values)	as a Fu	nction							
		of DCIA Percentage and Non-DCIA Curve Number (CN)																			
NDCIA	Percent DCIA																				
	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
30	0.002	0.043	0.083	0.123	0.164	0.204	0.244	0.285	0.325	0.366	0.406	0.446	0.487	0.527	0.567	0.608	0.648	0.688	0.729	0.769	0.809
35	0.004	0.044	0.085	0.125	0.165	0.205	0.246	0.286	0.326	0.366	0.407	0.447	0.487	0.528	0.568	0.608	0.648	0.689	0.729	0.769	0.809
40	0.007	0.047	0.087	0.127	0.167	0.207	0.248	0.288	0.328	0.368	0.408	0.448	0.488	0.528	0.569	0.609	0.649	0.689	0.729	0.769	0.809
45	0.010	0.050	0.090	0.130	0.170	0.210	0.250	0.290	0.330	0.370	0.410	0.450	0.490	0.530	0.570	0.610	0.650	0.690	0.729	0.769	0.809
50	0.015	0.055	0.095	0.134	0.174	0.214	0.254	0.293	0.333	0.373	0.412	0.452	0.492	0.531	0.571	0.611	0.651	0.690	0.730	0.770	0.809
55	0.022	0.061	0.101	0.140	0.179	0.219	0.258	0.298	0.337	0.376	0.416	0.455	0.494	0.534	0.573	0.613	0.652	0.691	0.731	0.770	0.809
60	0.030	0.069	0.108	0.147	0.186	0.225	0.264	0.303	0.342	0.381	0.420	0.459	0.498	0.537	0.576	0.615	0.654	0.693	0.731	0.770	0.809
65	0.042	0.080	0.119	0.157	0.195	0.234	0.272	0.311	0.349	0.387	0.426	0.464	0.502	0.541	0.579	0.618	0.656	0.694	0.733	0.771	0.809
70	0.057	0.095	0.133	0.170	0.208	0.245	0.283	0.321	0.358	0.396	0.433	0.471	0.509	0.546	0.584	0.621	0.659	0.697	0.734	0.772	0.809
75	0.079	0.116	0.152	0.189	0.225	0.262	0.298	0.335	0.371	0.408	0.444	0.481	0.517	0.554	0.590	0.627	0.663	0.700	0.736	0.773	0.809
80	0.111	0.146	0.181	0.216	0.251	0.285	0.320	0.355	0.390	0.425	0.460	0.495	0.530	0.565	0.600	0.635	0.670	0.705	0.740	0.774	0.809
85	0.160	0.192	0.225	0.257	0.290	0.322	0.355	0.387	0.420	0.452	0.485	0.517	0.550	0.582	0.614	0.647	0.679	0.712	0.744	0.777	0.809
90	0.242	0.270	0.299	0.327	0.355	0.384	0.412	0.440	0.469	0.497	0.526	0.554	0.582	0.611	0.639	0.667	0.696	0.724	0.753	0.781	0.809
95	0.404	0.424	0.444	0.464	0.485	0.505	0.525	0.546	0.566	0.586	0.606	0.627	0.647	0.667	0.688	0.708	0.728	0.749	0.769	0.789	0.809
98	0.595	0.605	0.616	0.627	0.638	0.648	0.659	0.670	0.680	0.691	0.702	0.713	0.723	0.734	0.745	0.756	0.766	0.777	0.788	0.799	0.809



Figure 3-1 Mean Annual Rainfall Map

 Table 3-3
 Event Mean Concentration Input Values

Land Use Description	TN (mg/L)	TP (mg/L)
Low-Density Residential	1.5	0.18
Single-Family	1.85	0.31
Multi-Family	1.91	0.48
Low-Intensity Commercial	0.93	0.16
High-Intensity Commercial	2.48	0.23
Light Industrial	1.14	0.23
Highway	1.37	0.17
Pasture	2.48	0.7
Citrus	2.31	0.16
Row Crops	2.47	0.51
General Agriculture	2.42	0.46
Undeveloped / Rangeland / Forest	1.15	0.055
Mining / Extractive	1.18	0.15
Wetland	1.01	0.09
Open Water / Lake	0	0

## 3.4. Gross Pollutant Loading Calculation

The annual pollutant load is calculated for each unique land use/soil area, using the above referenced mean annual rainfall, annual runoff and EMC values by spatially intersecting the land use and soil coverage. The annual pollutant load produced by each unique area is accumulated, to express the gross average annual pollutant load, for the watershed areas.

The following formula was applied to estimate the gross average annual pollutant load:

Gross Average Annual Load (lbs) = 0.226 \* Annual Runoff (in) \* EMC (mg/L) \* Area (Ac)

## 3.5. Results of Pollutant Loading Estimates

Based on the method described above, pollutant loading rates have been estimated for TN, TP on an annual (lb/yr) and event mean concentration (mg/L) basis. **Table 3-4** shows the annual quantity of pollutant loads produced within each MS-4 drainage area as well as Lake Lena's drainage area. Approximately, 22% of the estimated external anthropogenic loads discharged to Lake Lena are from City's MS-4 outfalls.

MS-4 Outfall	Drainage Area (Acres)	Runoff Volume (Ac-ft)	Total Nitrogen (Ib/year)	Total Phosphorous (lb/year)	Total Nitrogen (mg/L)	Total Phosphorous (mg/L)
AUB-40	4.1	3.2	16.0	2.7	1.85	0.31
AUB-41	2.5	1.9	9.7	1.6	1.85	0.31
AUB-42	6.5	5.3	25.9	4.4	1.79	0.30
AUB-43	1.5	1.1	5.7	1.0	1.85	0.31
AUB-44	7.9	6.2	30.9	5.2	1.85	0.31
AUB-44B	58.3	84.6	300.5	55.1	1.31	0.24
AUB-45	12.5	9.8	49.0	8.2	1.85	0.31
AUB-46	26.4	34.9	123.9	21.0	1.31	0.22
AUB-47	18.1	14.2	70.6	11.8	1.84	0.31
AUB-47B	0.2	0.2	1.0	0.2	1.85	0.31
City MS-4 Total	138	161	633	111		
Lake Lena Total	617 (Ex. Lake Surface Area)	1,350	2,963	509		
City's Percent of Total	22%	12%	21%	22%		

## Table 3-4 Pollutant Loading Estimates

## 3.6. Storm Event Sampling Summary

To test that the baseline pollutant loading estimates are not overstating the City's discharge, the City selected outfall AUB-44B for storm event sampling. AUB-44B was selected using FDEP monitoring plan guidance to select the outfall with the highest predicted nutrient loads. The sampling effort obtained nutrient (TN and TP) concentrations from runoff discharged by seven (7) storm events between 9/25/2015 and 1/15/2016.

Table 3-5 summarizes the results of the storm event sampling for AUB-44B. The samples are flow weighted composites of each storm event. For the purposes of this analysis data from the 10/27/2015 will be considered an outlier and excluded since the event produced abnormally little rainfall over an extended period of time (0.138" over 19 hours).

Event Date	Rainfall (Inches)	Rainfall Duration (hours)	Runoff Volume (cf)	Calculated Runoff Coefficient	Total Nitrogen (mg/L)	Total Phosphorous (mg/L)
9/25/2015	0.371	2.5	3,801	0.043	0.99	0.155
10/13/2015	0.136	0.5	551	0.017	2.56	0.431
10/27/2015*	0.138	19	733	0.023	5.99	0.255
11/7/2015	1.21	2.75	18,790	0.066	2.48	0.533
11/21/2015	1.38	15.5	27,664	0.085	1.29	0.252
12/18/2015	0.15	6.25	1,879	0.053	2.62	0.384
1/15/2016	1	5.35	8,576	0.036	4.03	1.22
Average	0.63	7.4	8,856	0.05	2.85	0.46
Average (Ex. 10/27/2015)	0.71	5.48	10,210	0.05	2.33	0.5

Table 3-5 AUB-44B Storm Event Sampling

Based on the storm event sampling at AUB-44B, it appears a substantial amount of runoff is bypassing the inlet and sheet flowing downstream, rather than discharging directly to the lake, through AUB-44. This is evident by the 0.05 average calculated runoff coefficient verses that which would be expected for a highly developed basin with sandy soils of 0.4 to 0.5. To develop a more accurate baseline loading rate for AUB-44B, the average concentrations and the average calculated runoff coefficient from sampling data will be used to re-calculate the annual baseline load discharging from AUB-44B. A 20% safety factor will be added to the final load to account for uncertainty associated with the conversion from water level readings to flow volumes. Since no sampling data is available for the remaining outfalls, the original baseline loading estimates will be considered the best available data.

MS-4 Outfall	Drainage Area (Acres)	Runoff Volume (Ac-ft)	Total Nitrogen (mg/L)	Total Phosphor ous (mg/L)	Total Nitrogen (Ibs/year)	Total Phosphorous (Ibs/year)
AUB-44B (Original)	58.3	84.6	1.31	0.24	300.5	55.1
AUB-44B (Revised)	58.3	13.1*	2.33	0.5	82.9*	17.8*
Original City MS-4 Total	138	161			633	111
Revised City MS-4 Total	138	89.5*			415.4*	73.7*

## Table 3-6 Revised Annual Loading Summary

\* Includes 20% Safety Factor

## 4. Implementation Strategies

## 4.1. <u>City's Load Reduction</u>

Based on the 42% reduction needed to meet the TMDL, approximately 174 pounds of the estimated 415 pounds of TN discharging from the City's MS-4 should be intercepted prior to discharging into Lake Lena. To meet the target TN loadings, the City is proposing implementation of the following best management practices.

## 4.2. Proposed Activities

<u>LID Stormwater Improvement Projects:</u> The City is currently working to design a stormwater quality improvement project which focuses on treating runoff for approximately 70 acres of Lake Lena's drainage basin. The project consists of a series of Low Impact Development (LID) stormwater improvement features including a reduction in impervious area (PK Avenue road diet), rain gardens, bio-retention swales, stormwater retention pond, and a nutrient separating baffle box. Initial TN reduction estimates anticipate capture of 200 lbs of TN, annually.

The project is currently in the design and permitting phases with construction anticipated to occur sometime during the next permit cycle. It should be noted, this project is partially dependent on co-operative and/or grant funding support. Currently, the project is funded with full anticipation of completion. If cooperative funding sources become unavailable to the City and the anticipated load reductions are not fully achieved, the City will attempt to make up the difference through alternative strategies outlined below.

<u>GIS Mapping of the City's Stormwater System (Alternative)</u>: Mapping of municipal stormwater systems using GIS is becoming a popular approach to facilitate system management (inspections/maintenance). The City is currently developing a GIS database scheme to house the spatial locations, photographs, inspection reports and maintenance records for its stormwater system. The database design is anticipated to be completed this year and the City's goal will be to populate the database over the next permit cycle.

Initial mapping effort will be focused within the Lake Lena drainage area. The GIS system will allow field crews to monitor the performance of their stormwater system and resolve deficiencies more effectively. Although quantifying the associated improvements in water quality through more effective system management is difficult, for the purposes of this analysis a 5% reduction in nutrient loads has been estimated. Thus, this activity will be assumed to remove about 21 lbs of TN from the City's outfall areas annually.

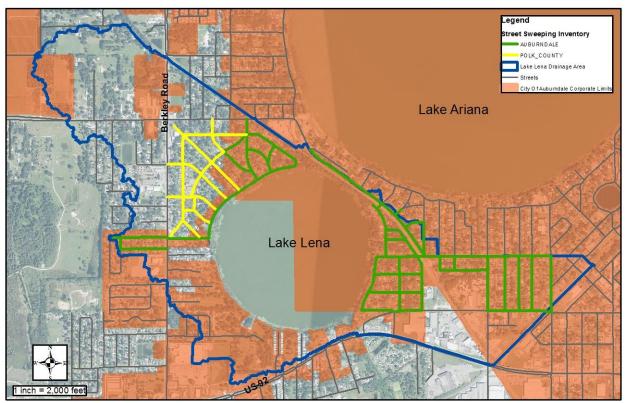
Increased Inspection of Stormwater Facilities (Alternative): To further improve the quality of runoff discharging into Lake Lena, City staff can focus additional inspection and maintenance activities to stormwater structures (inlets, pipes and swales) within the lake's drainage area. The purpose of the increased inspections will be to identify and eliminate potential sources of nutrient loads resulting from illicit discharges, excess sediment, improper use of fertilizer, and other activities known to produce excess nitrogen.

The City will document maintenance activities and quantify the estimated annual TN removal of such activities as part of its annual report. Although quantifying the associated improvements in water quality through more focused maintenance activities is difficult, for the purposes of this analysis a 5% reduction in nutrient loads has been estimated. Thus, this activity will be assumed to remove about 20 lbs of TN from the City's outfall areas annually.

<u>Concentrated Street Sweeping (Alternative)</u>: As an alternative or supplemental strategy to augment, as needed, the above referenced structural improvement project, the City can increase the frequency and expand the limits of its existing street sweeping program. The City is committed to limiting sediment, trash and debris build-up along City roadways for a variety of reasons, including improvements to the quality of stormwater discharge. Currently, the City's goal is to sweep the majority of City streets on at least an annual basis. As shown by Figure 4-1, approximately 15.2 miles of roadway exist within the Lake's drainage basin, of which 7 miles are swept by the City and 2.2 miles are swept by the County on an annual basis. Approximately, 6.2 miles are not swept by either the City or the County.

To further improve the quality of runoff discharging into Lake Lena the City proposes to increase street sweeping within the lakes drainage basin to a bi-annual frequency. The City will consider further increased frequency for each roadway if results deem necessary. Although quantifying

the associated improvements in water quality through more frequent street sweeping is difficult, for the purposes of this analysis a 2.5% reduction in nutrient loads has been estimated. Thus, this activity will be assumed to remove about 10 lbs of TN from the City's outfall areas annually.





## 5. Conclusion

Based on this analysis, the City is actively implementing strategies to improve the quality of stormwater discharging into Lake Lena from the City's MS-4 system. Furthermore, the City will continue to identify opportunities which further improve the quality runoff discharging into the Lake to the extent practicable. The management strategies outlined in this report are expected go above and beyond the TMDL implementation requirement included as part of the City's NPDES permit.