



Public Services

Engineering
212 Operations Center Drive
Wilmington, NC 28412
910 341-7807
910 341-5881 fax
wilmingtonnc.gov
Dial 711 TTY/Voice

July 20, 2018

Richard Paschal, Member Manager Triple S Virginia, LLC 6832 Main Street #318 Wilmington, NC, 28405

Subject:

Stormwater Management Permit No. 2015029R1

Wilmington Tire & Auto High Density Development

Dear Mr. Paschal:

The City of Wilmington Engineering Division has received a request for a revision to the Stormwater Management Permit for Wilmington Tire & Auto. Having reviewed the application and all supporting materials, the City of Wilmington has determined that the proposed revision meets the requirements of the City of Wilmington's Comprehensive Stormwater Ordinance.

The revisions include:

-Addition of a building, driveway, and sidewalk

-See approved plans dated 07/20/2018

Please be aware all terms and conditions of the permit Issued on September 18, 2015 remain in full force and effect. Any additional changes to the approved plans must be approved by this office prior to construction. The issuance of the plan revision does not preclude the permittee from complying with all other applicable statutes, rules, regulations or ordinances which may have jurisdiction over the proposed activity, and obtaining a permit or approval prior to construction.

The revised stamped, approved stormwater management drawings will be released for construction by the Wilmington Planning Division under separate cover. Please replace any old plan sheets from the approved set with the new, revised sheet. An electronic copy of the approved drawing set, permit, application and supplementary documents will be maintained by the Wilmington Engineering Division. If you have any questions, or need additional information, please contact Richard Christensen at (910) 341-7813 or richard.christensen@wilmingtonnc.gov

Sincerely.

CC:

for Sterling Cheatham, City Manager

City of Wilmington

Phil Tripp, Tripp Engineering P.C.

Jeff Walton, Wilmington Development Services/Planning





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STORMWATER MANAGEMENT PERMIT APPLICATION FORM (Form SWP 2.2)

I. GENERAL INFORMATION

1.	Project Name (subdivision, facility, or establishment name - should be consistent with project name on plans, specifications, letters, operation and maintenance agreements, etc.):
	Wilmington Tire & Auto Expansion
2.	Location of Project (street address): 6020 Oleander Drive
	City: Wilmington County: New Hanover Zip: 28403
3.	Directions to project (from nearest major intersection):
	Property is approx 1/8 mile west of Greenville Loop Road and Oleander Drive intersection. Turn left onto Bagley Ave.
	Property is on the right.
II.	PERMIT INFORMATION
1.	Specify the type of project (check one): Low Density X High Density Drains to an Offsite Stormwater System Drainage Plan Other If the project drains to an Offsite System, list the Stormwater Permit Number(s):
	City of Wilmington: State – NCDENR/DWQ:
2.	Is the project currently covered (whole or in part) by an existing City or State (NCDENR/DWQ) Stormwater Permit? X Yes No If yes, list all applicable Stormwater Permit Numbers:
	City of Wilmington:SWP2015029 State - NCDENR/DWQ:
3.	Additional Project Permit Requirements (check all applicable): CAMA Major x Sedimentation/Erosion Control NPDES Industrial Stormwater 404/401 Permit: Proposed Impacts: If any of these permits have already been acquired please provide the Project Name, Project/Permit Number, issue date and the type of each permit:
	Modification to existing grading permit #25-15



III. CONTACT INFORMATION

1.	Print Applicant / Signing Official's name and title (specifically the developer, property owner, lessee, designated government official, individual, etc. who owns the project):
	Applicant / Organization:Triple S Virginia, LLC
	Signing Official & Title:Richard Paschal, Member Manager
	a. Contact information for Applicant / Signing Official:
	Street Address: 6832 Main Street #318
	City: Wilmington State: NC Zip: 28405
	Phone: 540-847-9714 Fax: Email: rcblpaschal@aol.com
	Mailing Address (if different than physical address):
	City:State:Zip:
	b. Please check the appropriate box. The applicant listed above is:
2.	Lessee* (Attach a copy of the lease agreement and complete items 2 and 2a below) Purchaser* (Attach a copy of the pending sales agreement and complete items 2 and 2a below) Developer* (Complete items 2 and 2a below.) Print Property Owner's name and title below, if you are the lessee, purchaser, or developer. (This is the person who owns the property that the project is on.)
	Property Owner / Organization:
	Signing Official & Title:
	a. Contact information for Property Owner:
	Street Address:
	City:State:Zip:
	Phone:Fax:Email:
	Mailing Address (if different than physical address):
	City:State:Zip:
3.	(Optional) Print the name and title of another contact such as the project's construction supervisor or another person who can answer questions about the project:
	Other Contact Person / Organization:
	Signing Official & Title:



	City:		St	ate:	Zip:		
			Er				
			physical address)				
	-	-	St				
/.	PROJECT INFORM						
	In the space provide	ed below, briefly	summarize how th	ne stormwa	ater runoff wi	ill be treated.	
	Sheet flow to existing of	·					
	Onot now to existing a	arb mot an oagn pip	o oyotom to oxioning :				
							
				·			
	Total Property Area:	74,052 so	quare feet				
	Total Coastal Wetla	nds Area: 0	square fe	et			
	Total Surface Mater	· Δraa· 0	causere feet				
	Total Surface Water		<u> </u>	(O) T (10 ()		
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12. Total Offsite Newly Constructed Impervious Area (improvements made outside of property boundary, *in square feet*):

Impervious Pavement		0
Pervious Pavement (adj. total, with	% credit applied)	0
Impervious Sidewalks		0
Pervious Sidewalks (adj. total, with	% credit applied)	0
Other (describe)		0
Total Offsite Newly Constructed Impe	rvious Surface	0

13. Total Newly Constructed Impervious Surface		
(Total Onsite + Offsite Newly Constructed Impervious Surface) =	33,574	square feet

14. Complete the following information for each Stormwater BMP drainage area. If there are more than three drainage areas in the project, attach an additional sheet with the information for each area provided in the same format as below. Low Density projects may omit this section and skip to Section V.

		and the contract of the contract of	
Basin Information	BMP#	BMP#	BMP#
Receiving Stream Name	UT to Bradley Creek		
Receiving Stream Index Number	18-87-24-4-(1)		
Stream Classification	SC;HQW:#		
Total Drainage Area (sf)	62,417		
On-Site Drainage Area (sf)	62,417		
Off-Site Drainage Area (sf)	0		
Total Impervious Area (sf)	33,574		
Buildings/Lots (sf)	1,800		
Impervious Pavement (sf)	260	•	
Pervious Pavement (sf)	0		
Impervious Sidewalks (sf)	150		
Pervious Sidewalks (sf)	0		
Other (sf)	0		
Future Development (sf)	0		
Existing Impervious to remain (sf)	31,364		
Offsite (sf)	0		
Percent Impervious Area (%)	53.8%		

15. How was the off-site impervious area	isted above determined?	Provide documentation:
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NA



V. SUBMITTAL REQUIREMENTS

- Supplemental and Operation & Maintenance Forms One applicable City of Wilmington Stormwater BMP supplement form and checklist must be submitted for each BMP specified for this project. One applicable proposed operation and maintenance (O&M) form must be submitted for each type of stormwater BMP. Once approved, the operation and maintenance forms must be referenced on the final plat and recorded with the register of deeds office.
- 2. Deed Restrictions and Restrictive Covenants For all subdivisions, outparcels, and future development, the appropriate property restrictions and protective covenants are required to be recorded prior to the sale of any lot. Due to variability in lot sizes or the proposed BUA allocations, a table listing each lot number, lot size, and the allowable built-upon area must be provided as an attachment to the completed and notarized deed restriction form. The appropriate deed restrictions and protective covenants forms can be downloaded at the link listed in section V (3). Download the latest versions for each submittal.

In instances where the applicant is different than the property owner, it is the responsibility of the property owner to sign the deed restrictions and protective covenants form while the applicant is responsible for ensuring that the deed restrictions are recorded.

By the notarized signature(s) below, the permit holder(s) certify that the recorded property restrictions and protective covenants for this project, if required, shall include all the items required in the permit and listed on the forms available on the website, that the covenants will be binding on all parties and persons claiming under them, that they will run with the land, that the required covenants cannot be changed or deleted without concurrence from the City of Wilmington, and that they will be recorded prior to the sale of any lot.

3. Only complete application packages will be accepted and reviewed by the City. A complete package includes all of the items listed on the City Engineering Plan Review Checklist, including the fee. Copies of the Engineering Plan Review Checklist, all Forms, Deed Restrictions as well as detailed instructions on how to complete this application form may be downloaded from:

http://www.wilmingtonnc.gov/PublicServices/Engineering/PlanReview/StormwaterPermits.aspx

The complete application package should be submitted to the following address:

City of Wilmington – Engineering Plan Review Section 212 Operations Center Dr Wilmington, NC 28412



VI. CONSULTANT INFORMATION AND AUTHORIZATION

1.	(such as a consulting enginee	on if you wish to designate authority to another individual and/or firm r and /or firm) so that they may provide information on your behalf for ng requests for additional information).
	Consulting Engineer: Phillip G	. Tripp, P.E.
	Consulting Firm:Tripp En	gineering
	a. Contact information fo	r consultant listed above:
	Mailing Address: 419 Che	stnut Street
	City: Wilmington	State: NC Zip: 28401
	Phone: 910-763-5100	
VII		THORIZATION (If Section III(2) has been filled out, complete this section)
per liste pro the sto As de de Wi	rson listed in Contact Information, item ed in Contact Information, item 1) oposed. A copy of the lease ag e submittal, which indicates the ormwater system. In the legal property owner I ack signated agent (entity listed in C faults on their lease agreement ilmington Stormwater Permit re	contact Information, item 2), certify that I permit application, and thus give permission to (print or type name of with (print or type name of organization to develop the project as currently reement or pending property sales contract has been provided with party responsible for the operation and maintenance of the nowledge, understand, and agree by my signature below, that if my contact Information, item 1) dissolves their company and/or cancels or an open organization. The property owner is my overts back to me, the property owner. As the property owner, it is my
Ch val	nange Form within 30 days; oth lid permit. I understand that the plation of the City of Wilmington	Wilmington immediately and submit a completed Name/Ownership erwise I will be operating a stormwater treatment facility without a operation of a stormwater treatment facility without a valid permit is a Municipal Code of Ordinances and may result in appropriate
	SEAL NEW PROPRIESSION OF THE SEAL OF THE	enforcement including the assessment of civil penalties. Signature: Date: 6 2 18 I, Hand Diesect , a Notary Public for the State of No County of No thereby certify that Robert lasonal personally appeared before me this day of June , 208,

Africante, Notary Public



and acknowledge the due execution	of the application for a stormwater permit. Witness my hand and official seal
My commission expires:	(2)21
VIII. APPLICANT'S CERTIFIC	CATION
that the information included on that the project will be constructed restrictions and protective coven SEAL SEA	Contact Information, item 1) Richard Paschal certify this permit application form is, to the best of my knowledge, correct and in conformance with the approved plans, that the required deed ants will be recorded, and that the proposed project complies with the requirements of the applicable stormwater rules under. Signature: Date: 4 2 18
NEW PUBLIC ON THE NEW PUBLIC OF THE PUBLIC O	I, Hannel Breseck , a Notary Public for the State of NC , County of New Horney, do hereby certify that Arned Pascal personally appeared before me this day of June , 2018 and acknowledge the due execution of the application for a stormwater
permit. Witness my hand and official	al seal,
My commission expires:	12521

SUPPLEMENT-EZ FORM COVER PAGE



Please indicate the types, quantities and locations of SCMs that will be used on this project:

	Quantity	Location(s)	
Infiltration System			The second second will be set to appropriate a management of
Bioretention Cell			
Wet Pond	_	southeast corner of site	
Stormwater Wetland			
Permeable Pavement			
Sand Filter			
Rainwater Harvesting			
Green Roof			
Level Spreader-Filter Strip			
Disconnected Impervious Surface			
Treatment Swale			
Dry Pond			

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Wilmington Tire & Auto

Address

6020 Oleander Drive

City / Town

Wilmington

Applicant:

Designer information for this project:

Name and Title:	Phillip G. Tripp, P.E.	Company
Organization:	Tripp Engineering, P.C.	Contact:
Street address:	419 Chestnut Street	Mailing A
City, State, Zip:	Wilmington, NC 28401	City, Stat
Phone number(s):	910-763-5100	Phone nu
Email:	office@trippengineering.com	Email:

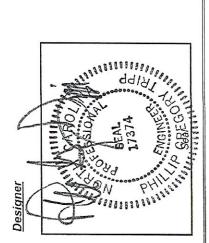
Company:	Triple S. Viginia, LLC
Contact:	Richard Pascal, Member Manager
Mailing Address:	6832 Main Street #318
City, State, Zip:	Wilmington, NC 28405
Phone number(s): 540-847-9714	540-847-9714
Email:	rcblpaschal@aol.com

Certification Statement:

I certify, under penalty of law: that this Supplement-EZ form and all supporting

- information were prepared under my direction or supervision;
 that the information provided in the form is, to the best of my knowledge and belief, true, accurate, and complete; and
- that the engineering plans, specifications, operation and maintenance agreements and other supporting information are consistent with the information provided here.

I am aware that there are significant penalties for submitting false information including the possibility of fines and imprisonment for knowing violations as well as a report being made to my professional board.



Signature of Designer

81.52.1

Date



9:08 AM 7/23/2018

9:25 AM 7/23/2018

WET POND

THE DRAINAGE AREA	And the second s	THE PARTY OF THE P	DESIGNATION TO THE RESIDENCE OF THE PROPERTY OF THE PERSON
Drainage area number	-	Break down of BUA in the drainage area (both new and existing):	
Total coastal wellands area (sq ft)	sf	Parking / driveway (sq ft)	260 sf
Total surface water area (sq ft)	sf	- Sidewalk (sq ft)	150 sf
Total drainage area (sq ft)	62417 sf	- Roof (sq ft)	1800 sf
BUA associated with existing development (sq ft)	31364 sf	- Roadway (sq ft)	
Proposed new BUA (sq ft)	2210 sf	- Other, please specify in the comment box below (sq ft)	31364 sf
Percent BUA of drainage area	0.5	Total BUA (sq ft)	33574 sf
COMPLIANCE WITH THE APPLICABLE STORMWATER PROGRAM	TO SECURE THE SECURE SECURE SECURE SECURITIES AND ADDRESS OF THE SECURE SECURITIES.	AND THE PROPERTY OF THE PROPER	Carlotte and Control of the Control
Stormwater program(s) that apply (please specify):	And the second s	Design rainfall depth (in)	1,5 in
City of Wilmington		Minimum volume required (cu fl)	4167 cf
CATIVA CHIMINETERISCOTO DE PROPERTIES DE PROPERTIES DE LA COMPANION DE LA COMP	POWERERAL	Design volume of SCM (cu ft)	15010 cf
SENERAL WIDE FROM 1270 A 1200	CONTRACTOR SECTION ASSOCIATION ASSOCIATION SECTION SEC	THE PROPERTY OF THE PROPERTY O	o least and a second and a second
#1 Is the SCM sized to treat the SVV from all suffaces at build-but?	S S	#6 Door the majority and account of complete the Constitution:	Say.
#2 Is the SCM located on or near contaminated soils?	02 3	#6 Does the maintenance access comply will belief a moc (9):	20 20
#3 What are the side slopes of the SCM (H:V)?	3:1	#9 Does the drainage easement comply with General MDC (9)?	168
#3 Does the SCM have retaining walls, gabion walls or other engineered side stopes?	No No	#10 If the SCM is on a single family lot, does the plat comply with General MDC (10)?	n/a
#4 Are the inlets, outlets, and receiving stream protected from erosion (10-year storm)?	Yes	#11 Is there an O&M Agreement that complies with General MDC (11)?	Yes
#5 Is there a a bypass for flows in excess of the design flow?	Yes	#12 Is there an O&M Plan that complies with General MDC (12)?	Yes
#6 What is the method for dewatering the SCM for maintenance?	Pump (preferred)	#13 Was the SCM designed by an NC licensed professional?	Yes
WET POND MDC FROM 02H, 1.053		STATE OF THE PROPERTY OF THE P	A Catal of continue fines of Laborator Continues
#1 Method used	SADA	#6 Width of the vegetated shelf (feet)	10#
#1 Surface area of the main permanent pool (square feet)	3881 sf	#6 Localion of vegetated shelf	@ Normal Pool
#1 Volume of the main permanent pool (cubic feet)	9941 cf	#6 Elevation of top of shelf (fmsl)	25.0
#2 Average depth of the main pool (feet)	3.5	#6 Elevation of bottom of shelf (fmsl)	24.0
#2 Was the vegetated shelf included in the calculation of average depth?	Yes	#6 Slope of vegetated shelf (H:V)	10:1
#2 Elevation of the bottom of the permanent pool (fmst)	24.5	#7 Diameter of drawdown orifice (inches)	1.0 in
#2 Elevation of the top of the permanent pool (fmsl)	24.5	#7 Drawdown time for the temporary pool (hours)	48.24
#2 Elevation of the top of the temporary pool (fmsl)	27.0	#7 Does the orifice drawdown from below the top surface of the permanent pool?	Yes
#3 Depth provided for sediment storage (inches)	12 in	#8 Does the pond minimize impacts to the receiving channel from the 1-yr, 24-hr storm?	n/a
#4 Are the inlet(s) and outlet located in a manner that avoids short-circuiting?	Yes	#9 Are fountains proposed?	S.
#4 Describe any measures, such as berms or baffles, that will be taken to improve the flow path:		#9 If yes, is documentation provided per Wet Pond MDC (9)?	
		#10 Is a trash rack or other device provided to protect the outlet system?	Yes
#5 Volume of the forebay (cubic feet)	1793	#11 Are the dam and embankment planted in non-clumping turf grass?	Yes
#5 Is this 15-20% of the volume in the main pool?	Yes	#11 Species of turf that will be used on the dam and embankment	centipede
#5 Depth of forebay at entrance (inches)	42 in	#11 Describe the planting plan for the vegetated shelf:	
#5 Depth of forebay at exit (inches)	42 in	145 each halberdleaf rose mallow and joe pye weed from permanent pool to shelf top	120
#5 Does water flow out of the forebay in a non-erosive manner?	Yes	reach duck potato and prover of reach pointed by the control of th	
#5 Clean-out depth for forebay (inches)	12 ln		
are well the forether the closed out when the death is reduced to loce than the above?	Yes		

Other is existing impervious surfaces



Permit Number:
(to be provided by City of Wilmington)
BMP Drainage Basin #:

Wet Detention Basin Operation and Maintenance Agreement

I will keep a maintenance record on this BMP. This maintenance record will be kept in a log in a known set location. Any deficient BMP elements noted in the inspection will be corrected, repaired or replaced immediately. These deficiencies can affect the integrity of structures, safety of the public, and the removal efficiency of the BMP.

The wet detention basin system is defined as the wet detention basin, pretreatment including forebays and the vegetated filter if one is provided.

	4	This syst	tem	(checi	k one):
~	2/2	This syst	\boxtimes	does	not	5.0

incorporate a vegetated filter at the outlet.

This system (check one):

does 🛛 does not

incorporate pretreatment other than a forebay.

Important maintenance procedures:



Immediately after the wet detention basin is established, the plants on the vegetated shelf and perimeter of the basin should be watered twice weekly if needed, until the plants become established (commonly six weeks). No portion of the wet detention pond should be fertilized after the first initial fertilization that is required to establish the plants on the vegetated shelf. Stable groundcover should be maintained in the drainage area to reduce the sediment load to the wet detention basin.

If the basin must be drained for an emergency or to perform maintenance, the flushing of sediment through the emergency drain should be minimized to the maximum extent practical.

Once a year, a dam safety expert should inspect the embankment.



After the wet detention pond is established, it should be inspected **once a month and within 24 hours after every storm event greater than 1.5 inches**. Records of operation and maintenance should be kept in a known set location and must be available upon request. Inspection activities shall be performed as follows. Any problems that are found shall be repaired immediately.

BMP element:	Potential problem:	How I will remediate the problem:
The entire BMP	Trash/debris is present.	Remove the trash/debris.
The side slopes of the wet detention basin	Areas of bare soil and/or erosive gullies have formed.	Regrade the soil if necessary to remove the gully, and then plant a ground cover and water until it is established. Provide lime and a one-time fertilizer application.
	Vegetation is too short or too	Maintain vegetation at a height of
	long.	approximately six inches.

BMP element:	Potential problem:	How I will remediate the problem:
The inlet device: pipe or swale	The pipe is clogged.	Unclog the pipe. Dispose of the sediment off-site.
	The pipe is cracked or	Replace the pipe.
	otherwise damaged.	
	Erosion is occurring in the	Regrade the swale if necessary to
	swale.	smooth it over and provide erosion
		control devices such as reinforced
		turf matting or riprap to avoid
		future problems with erosion.
The forebay	Sediment has accumulated to	Search for the source of the
	a depth greater than the	sediment and remedy the problem if
	original design depth for	possible. Remove the sediment and
	sediment storage.	dispose of it in a location where it
		will not cause impacts to streams or
		the BMP.
	Erosion has occurred.	Provide additional erosion
		protection such as reinforced turf
		matting or riprap if needed to
		prevent future erosion problems.
	Weeds are present.	Remove the weeds, preferably by
		hand. If pesticide is used, wipe it on
		the plants rather than spraying.
The vegetated shelf	Best professional practices	Prune according to best professional
	show that pruning is needed	practices
	to maintain optimal plant	
	health.	D. I. I. I. I. I.
	The plant community and	Restore plant vegetation to
	coverage is significantly	approved condition. If landscape
	(>25%) different from	plan needs to be adjusted to specify
	approved landscape plan.	vegetation more appropriate for site
		conditions, contact City Stormwater
	Cattails or other invasive	or Engineering Staff. Remove all invasives by physical
	plants cover >25% of the veg't	1
	shelf. A monculture of plants	removal or by wiping them with pesticide (do not spray) - consult a
	must be avoided)	professional.
	Plants are dead, diseased or	Determine the source of the
	dying.	problem: soils, hydrology, disease,
	,,, a.e.	etc. Remedy the problem and
		replace plants. Provide a one-time
		fertilizer application to establish the
		ground cover if a soil test indicates
		it is necessary.
The main treatment area	Sediment has accumulated to	Search for the source of the
	a depth greater than the	sediment and remedy the problem if
	original design sediment	possible. Remove the sediment and
	storage depth.	dispose of it in a location where it
		will not cause impacts to streams or
		the BMP.

	BMP element:	Potential problem:	How I will remediate the problem:
	The main treatment area (continued)	Algal growth covers over 25% of the area.	Consult a professional to remove and control the algal growth.
		Cattails or other invasive	Remove all invasives by physical
		plants cover >25% of the veg't	removal or by wiping them with
		shelf. A monculture of plants	pesticide (do not spray) – consult a
		must be avoided)	professional.
	The embankment	Shrubs have started to grow	Remove shrubs immediately.
		on the embankment.	
	GEIVED JUL - 7 2015	Evidence of muskrat or beaver activity is present.	Use traps to remove muskrats and consult a professional to remove beavers.
		A tree has started to grow on the embankment.	Consult a dam safety specialist to remove the tree.
	GINEERING	An annual inspection by an appropriate professional shows that the embankment needs repair. (if applicable)	Make all needed repairs.
	The outlet device	Clogging has occurred.	Clean out the outlet device. Dispose of the sediment off-site.
		The outlet device is damaged	Repair or replace the outlet device.
	The receiving water	Erosion or other signs of	Contact the local NC Division of
		damage have occurred at the	Water Quality Regional Office, or
		outlet.	the 401 Oversight Unit at 919-733-
			1786.

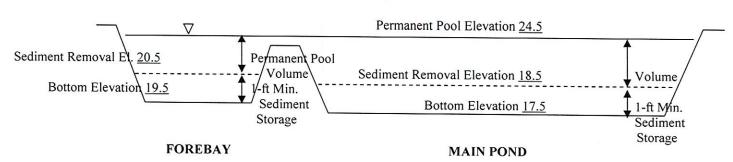
The measuring device used to determine the sediment elevation shall be such that it will give an accurate depth reading and not readily penetrate into accumulated sediments.

When the permanent pool depth reads <u>6.0</u> feet in the main pond, the sediment shall be removed.

When the permanent pool depth reads <u>4.0</u> feet in the forebay, the sediment shall be removed.

BASIN DIAGRAM

(fill in the blanks)



Permit Number:	
(to be provided by City of Wilming	ton)

I acknowledge and agree by my signature below that I am responsible for the performance of the maintenance procedures listed above. I agree to notify the City of Wilmington of any problems with the system or prior to any changes to the system or responsible party.

Project name: Wilmington Tire & Auto
BMP drainage basin number:1
Print name:Richard Paschal
Title:Member Manager
Address: P.O. Box 1790, N. Myrtle Beach, SC 29598
Phone: 540-847-9714
Signature:
Date: 4/17/15
Note: The legally responsible party should not be a homeowners association unless more than 50% of the lots have been sold and a resident of the subdivision has been named the president.
I, Della C. Raird, a Notary Public for the State of
North Carolina, County of Pender, do hereby certify that
Richard Paschal personally appeared before me this 17
day of April , 2015, and acknowledge the due execution of the
forgoing wet detention basin maintenance requirements. Witness my hand and official
seal, Della C Baid
CEAL
SEAL
My commission expires 10-15-16