East Coast Repair & Fabrication, LLC, Div-3
3400 Shipwright Street
Portsmouth, Virginia 23703
Ph: (757) 484-5320 Fax: (757) 483-1383

July 25, 2014

Mr. Carl Thomas
Virginia D. E. Q.
5636 Southern Blvd
Virginia Beach, VA 23462

HD
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JUL 25 2014
Tidewater Regional Office

Dear Mr. Thomas

1. Please fine attached East Coast Repair & Fabrication's, required documents, attachments and applications for renewal of company's water permit:

   a. Annual Permit Maintenance Fee Form
   b. Authorization To Bill Applicant for Public Notice
   c. VPDES Permit Application Addendum
   d. EPA Form (1) With attached maps and charts
   e. EPA Form (2C)
   f. Pending EPA (2C) Water test Result for Outfall 003
   g. EPA Form (2F) with pending lab test form for 7-24-2014
   h. Attached data disk of all documents in this report

2. Due to the close proximate location of all railways, East Coast & Repair, LLC, is requesting a wavier be granted to test outfall 003, and that test be representative of the same condition for outfalls 001' 002' and 004 as required by EPA form (2C).

3. It is our intention to test for all pollutants listed in (2C) except those classified as Radioactivity, to verify if pollutants are presence.

4. BMP's and The Storm Water Plan are currently being revise. Completed copies of these document will be submitted for review no later than 08/01/2014

Shane Bangert, Corporate Safety Director
East Coast Repair & Fabrication, LLC

ANNUAL PERMIT MAINTENANCE FEE FORM

(PLEASE COMPLETE AND RETURN THIS FORM WITH PERMIT APPLICATION)

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1. **Facility Name:** East Coast Repair & Fabrication, LLC, Division-3
(Please indicate all facility names applicable for the information listed below)

2. **Permit Number(s):** VA0087599
(Please note all VPDES individual permit numbers applicable for information provided)

3. **Tax Payer ID [FIN]:** 26-1653916 5

4. **Billing Information:**

Corporate Name or Owner Name: Jorge Rivera

East Coast Repair & Fabrication, LLC

Corporate Billing Address: or Owner Address: P.O. Box 13687
Chesapeake, VA 23325

5. **Billing Contact:**

Name & Title: Priscilla Tynch, Controller

Phone Number: 757-455-9600

E-mail address: MyECRInvoice@ecrandf.com

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AUTHORIZATION TO BILL APPLICANT FOR A PUBLIC NOTICE FOR

Facility Name: East Coast Repair & Fabrication, LLC, Division-3
3400 Shipwright Street
Portsmouth, Virginia 23703

VPDES Permit: VA0087599

I hereby authorize the Department of Environmental Quality to have the cost of publishing a public notice billed to the Agent/Department shown below. The public notice will be published once a week for two consecutive weeks in the:

The Virginian Pilot
Legal Advertising Department
150 W. Brambleton Avenue
Norfolk, Virginia 23510

Agent/Department to be billed: East Coast Repair & Fab LLC

Applicant's Address: P.O. Box 13687
Chesapeake, VA 23325

Agent's Telephone No: 757-455-9600

I AM ALSO AUTHORIZING THE The Virginian Pilot **TO SEND THE AFFIDAVIT TO:**

DEQ Tidewater Regional Office
Attention: Ms. Colleen Porter
TRO - Water Permits Section
5636 Southern Boulevard
Virginia Beach, Virginia 23462

Authorizing Agent/Date Signed: Jorge L Rivera
Print Name/Date Signed

Authorizing Agent's Signature
Signature

Agent's E-Mail Address:

RETURN COMPLETED FORM AS PART OF APPLICATION TO:

DEQ – Tidewater Regional Office
Water Permits Section
5636 Southern Boulevard
Virginia Beach, Virginia 23462

Cc: DEQ – TRO/file (VA0087599@ECM)

VPDES Permit Application Addendum

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Tidewater Regional Office

1. Entity to whom the permit is to be issued: (East Coast Repair & Fabrication, LLC) Jorge Rivera

   Who will be legally responsible for the wastewater treatment facilities and compliance with the permit? This may or may not be the facility or property owner.

2. Is this facility located within city or town boundaries? Yes XX or No _____

3. Provide the tax map parcel number for the land where the discharge is located. 110008944

4. What is the average process effluent flow of this facility? No waste MGD

   For industrial facilities, provide the max. 30-day average production level, include units: N/A

   In addition to the design flow or production level, should the permit be written with limits for any other discharge flow tiers or production levels: Yes _____ or No XX

   If "YES", please identify the other flow tiers (in MGD) or production levels: N/A

   Please consider the following questions for both the flow tiers and the production levels (if applicable): Do you plan to expand operations during the next five years? Is you facility's design flow considerably greater than your current flow?

5. Nature of industrial operations generating wastewater: Ship Building and Repair

6. Mode of Discharge: _____Continuous XX Intermittent _____Seasonal
   Describe frequency and duration of intermittent or seasonal discharges:

   Discharges are directly related to work on railways

7. Identify characteristics of receiving stream at the point just above the facility's discharge point:

   XX Permanent stream, never dry
   _____ Intermittent stream, usually flowing, sometimes dry
   _____ Ephemeral stream, wet-weather flow, often dry
   _____ Effluent-dependent stream, usually or always dry without effluent flow
   _____ Lake or pond at or below the discharge point
   _____ Other _____

8. Approval Date(s): O & M Manual N/A
   Sludge/Solids Management Plan _____

   Have any operational changes or procedures occurred since the approval dates? Yes __ or No XX

9. Do you plan to sign up for e-DMR, the DEQ's electronic Discharge Monitoring Reporting program?

   XX Yes _____No; and

   if not, why? _____

Please print or type in the unshaded areas only.

Form Approved. OMB No. 2040-0086.

FORM 1 GENERAL

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Permits Program

(Read the "General Instructions" before starting.)

I. EPA I.D. NUMBER

S		T/A	C
F	VAD003174885		D
1	2 — 13	14	15

LABEL ITEMS	
I. EPA I.D. NUMBER	VAD003174885
III. FACILITY NAME	East Coast Repair & Fabrication, LLC, (Div-3)
V. FACILITY MAILING ADDRESS	3400 Shipwright Street Portsmouth, Virginia 23703
VI. FACILITY LOCATION	36.15 30N-76 20' 30"W

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent *(the area to the left of the label space lists the information that should appear)*, please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete Items I, III, V, and VI *(except VI-B which must be completed regardless)*. Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of **bold-faced terms**.

SPECIFIC QUESTIONS	Mark "X" YES	NO	FORM ATTACHED	SPECIFIC QUESTIONS	Mark "X" YES	NO	FORM ATTACHED
A. Is this facility a **publicly owned treatment works** which results in a **discharge** to **waters of the U.S.**? (FORM 2A)		X		B. Does or will this facility *(either existing or proposed)* include a **concentrated animal feeding operation** or **aquatic animal production facility** which results in a **discharge** to **waters of the U.S.**? (FORM 2B)		X	
	16	17	18		19	20	21
C. Is this a facility which currently results in **discharges** to **waters of the U.S.** other than those described in A or B above? (FORM 2C)	X		2C/2F	D. Is this a proposed facility *(other than those described in A or B above)* which will result in a **discharge** to **waters of the U.S.**? (FORM 2D)		X	
	22	23	24		25	26	27
E. Does or will this facility treat, store, or dispose of **hazardous wastes**? (FORM 3)		X		F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
	28	29	30		31	32	33
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
	34	35	36		37	38	39
I. Is this facility a proposed **stationary source** which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X		J. Is this facility a proposed **stationary source** which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an **attainment area**? (FORM 5)		X	
	40	41	42		43	44	45

III. NAME OF FACILITY

C 1 SKIP: East Coast Repair & Fabrication, LLC

IV. FACILITY CONTACT

A. NAME & TITLE *(last, first, & title)*	B. PHONE *(area code & no.)*
C 2 Payne, Alphonso Environmental Manager	(757) 593-5932

V. FACILTY MAILING ADDRESS

A. STREET OR P.O. BOX: C 3 3400 Shipwright St

B. CITY OR TOWN	C. STATE	D. ZIP CODE
C 4 Portsmouth	VA	23703

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VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER: C 5 36.15 30N -76. 20 30 W

B. COUNTY NAME: Portsmouth

C. CITY OR TOWN	D. STATE	E. ZIP CODE	F. COUNTY CODE *(if known)*
C 6			

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

VII. SIC CODES *(4-digit, in order of priority)*

A. FIRST	B. SECOND
7 3731 *(specify)* Ship building and Repair	7 3732 *(specify)* Boat building and repair

C. THIRD	D. FOURTH
7 4499 *(specify)* Water transportation services	7 *(specify)* N/A

VIII. OPERATOR INFORMATION

A. NAME: 8 Jorge Rivera

B. Is the name listed in Item VIII-A also the owner? ☑ YES ☐ NO

C. STATUS OF OPERATOR *(Enter the appropriate letter into the answer box: if "Other," specify.)*

F = FEDERAL
S = STATE
P = PRIVATE
M = PUBLIC *(other than federal or state)*
O = OTHER *(specify)*

P *(specify)* N/A

D. PHONE *(area code & no.)*: A (757) 455-9600

E. STREET OR P.O. BOX: 3400 Shipwright St

F. CITY OR TOWN: B Portsmouth

G. STATE: VA

H. ZIP CODE: 23703

IX. INDIAN LAND

Is the facility located on Indian lands? ☐ YES ☑ NO

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES *(Discharges to Surface Water)*	9 N	VA0087599	
D. PSD *(Air Emissions from Proposed Sources)*	9 P	N/A	
B. UIC *(Underground Injection of Fluids)*	9 U	N/A	
E. OTHER *(specify)*	9	N/A	*(specify)* N/A
C. RCRA *(Hazardous Wastes)*	9 R	VAD003174885	
E. OTHER *(specify)*	9	N/A	*(specify)* N/A

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers, and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS *(provide a brief description)*

East Coast Repair & Fabrication, LLC, drydocks and repairs marine boats, barges utlity, small passenger and similar vessels, commercial and government-owned. Opertions includes metal works, abrasive blasting, painting, machine shop work, pipping repairs, electrical repairs and carpentry. East Coast Repair & Fabrication, is a small quanity generator of hazardous waste consisting of waste paint used in boat repair operations.

Per section(XI.)The following maps are attached:

Property Map
USGS top map
Outfall Layout
Paint, waste and hazard storage
Stormwater runoff

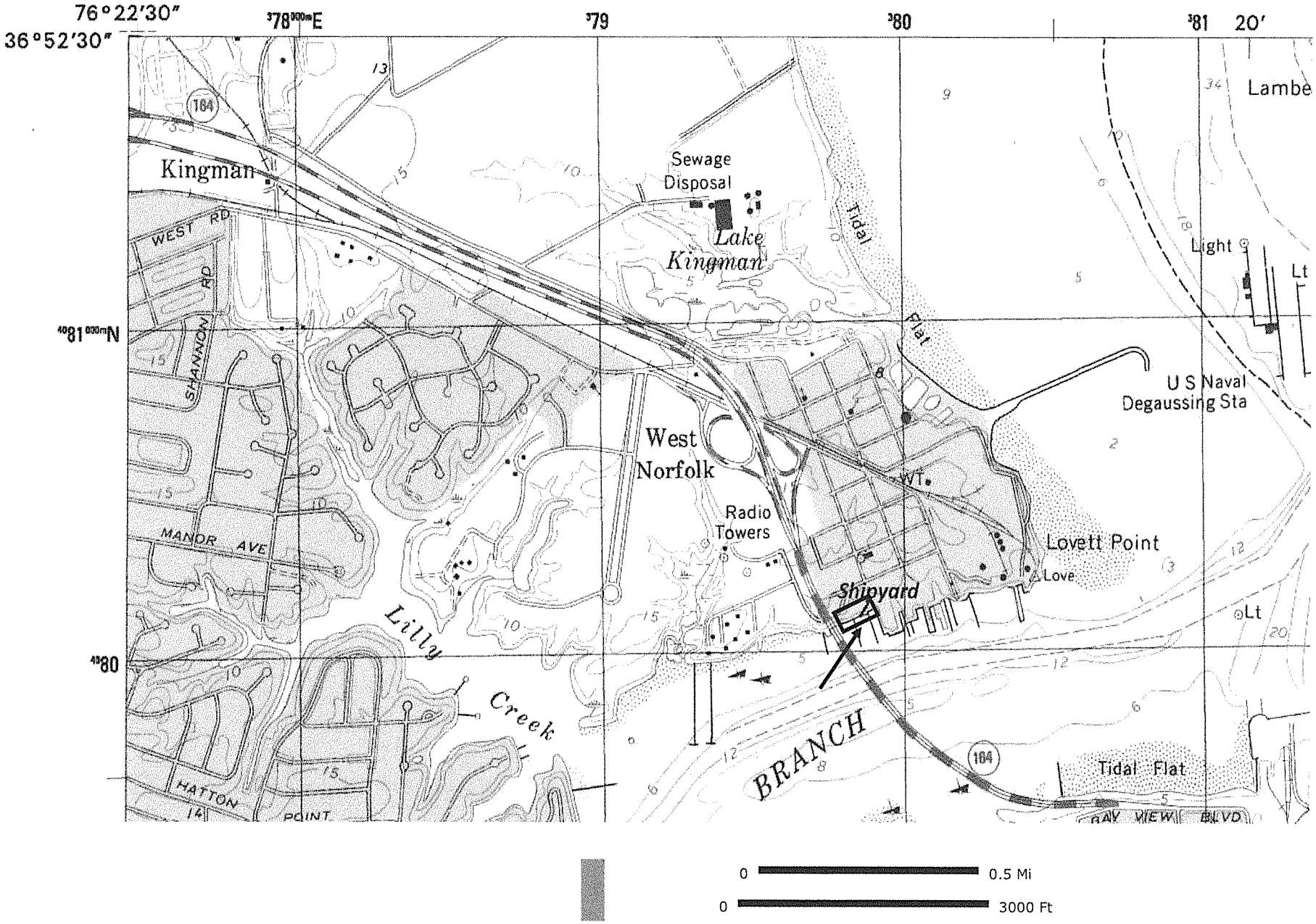
XIII. CERTIFICATION *(see instructions)*

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE *(type or print)*	B. SIGNATURE	C. DATE SIGNED
Jorge Rivera, President		7-25-14

COMMENTS FOR OFFICIAL USE ONLY

C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West Norfolk
Radio Towers
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ALTA/ACSM LAND TITLE SURVEY
OF
3301 SHIPWRIGHT STREET
AS SHOWN IN
INSTRUMENT #110008944
FOR
OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY
&
5803 CURLEW DRIVE, L.L.C., A VIRGINIA LIMITED LIABILITY COMPANY
BY

Hassell&Folkes, P.C.
Engineers Surveyors Planners
325 Volvo Parkway
Chesapeake, VA.23320
(757)547-9531

LEGAL DESCRIPTION

PARCEL ONE
Beginning at the intersection of the south line of Washington Street and the west line of 4th Avenue; thence westerly three hundred and fifty-six (356) feet on Washington Street; thence 90 southerly sixty-seven (67) feet two (2) inches along the present Associated Naval Architects, Inc., factory building; thence 90 westerly forty (40) feet ten and one-half (10N2) inches along said building; thence 90 southerly forty-three (43) feet one (1) inch, dividing the present kiln and shed in half; thence 90 westerly thirty-eight (38) feet seven and one-half (7N2) inches; thence 90 southerly to the Port Warden's line, dividing the warehouse now on the said property along its center line, thence easterly along the Port Warden's line to the Western line of 4th Avenue, extended, and thence northerly along the west line of 4th Avenue to the point of beginning

TOGETHER WITH an easement over the land of Western Branch Diesel Sales and Service, allotted to it in the partition now being consummated, from the site of the five thousand gallon water tank now erected upon the property of the latter for underground pipes as may be necessary to the factory building of the Associated Naval Architects, Inc., for service to its sprinkling system in said factory. Said use to be jointly with said Diesel Sales and Service and said tank to be maintained equally by them as long as said tank shall remain in existence and one-half of any sums expended by either of said parties for the upkeep, maintenance, and repair of said tank shall be repaid to it by the other, provided it shall be preserved and repaired only to keep it in its present condition; the location of the pipes or conduits for water from said tank to said factory building remain the same except by mutual agreement. The charges for reimbursement for such maintenance and repair shall not constitute a lien upon property but only a debt.

IT BEING the same property conveyed to Associated Naval Architects, Inc. by Deed of Partition from Edgar S. Everhart and Helen E. Everhart, his wife; Arnold H. Swanson and Virginia D.-Swanson, his wife; Roy T. Sarrett, Jr., and Clara B. Sarrett, his wife, and Herbert A. Hanaman and Mona Hanaman, his wife, dated June 22, 1948 and recorded July 8, 1948 in the Clerk's Office of the Circuit Court of the City of Chesapeake, Virginia in Deed Book 96 at page 168

PARCEL TWO
All that certain tract or parcel of land, together with the buildings, improvements, privileges, riparian rights, and appurtenances of every kind thereunto belonging, lying and being situate at West Norfolk in the City of Portsmouth, Virginia on the northern shore of the Western Branch of the Elizabeth River, within the following described boundaries:

Beginning at the Southeast corner of Third Avenue and Washington Street; thence Southerly along the Western line of Third Avenue and its extension into the Elizabeth River 830 feet, more or less, to the Port Warden's line; thence Westerly along said Port Warden's line to a point where the Eastern line of Fourth Avenue extended would intersect; thence North 19.4° West 700 feet, more or less, along teh Eastern side of Fourth Avenue extended and Fourth Avenue to the Southeast corner of Fourth Avenue and Washington Street; thence Easterly along the South side of Washington Street 380 feet, more or less, to the Southwest corner of Third Avenue and Washington Street, the point of beginning.

IT BEING the same property conveyed to Associated Naval Architects, Inc. by Deed from Edgar S. Everhart and Helen E. Everhart, his wife, dated September 28, 1973 and recorded September 28, 1973 in the Clerk's Office of the Circuit Court of the City of Portsmouth, Virginia in Deed Book 631 at page 33

PARCEL THREE
That certain part of West Norfolk Road, including riparian rights appurtenant thereto, lying between the shoreline of the Western Branch of the Elizabeth River and the extension to the East of to southern right-of-way line of Shipwright Street.

IT BEING a portion the same property conveyed to Associated Naval Architects, Inc. by Street Closure Ordinance recorded May 18, 1979 in the Clerk's Office of the Circuit Court of the City of Portsmouth, Virginia in Deed Book 753 at page 819.

IT BEING a portion of the same property conveyed to Associated Naval Architects, Inc. by Street Closure Ordinance recorded October 9, 1979 in the Clerk's Office of the Circuit Court of the City of Portsmouth, Virginia in Deed Book 768 at page 304.

PARCEL FOUR
All that certain lot, piece or parcel of land, with the improvements thereon, and the appurtenances thereunto belonging, situate, lying and being in the City of Portsmouth, Virginia, bounded and described as follows: Beginning at a point on the eastern side of West Norfolk Road (Third Avenue) 290' south of the southeast intersection of West Norfolk Road and Shipwright Street (formerly Washington Street), as layed out on the Map of West Norfolk made by Grimes and Hargreave, on the year 1889, recorded in the Clerk's Office of the Circuit Court of the City of Chesapeake, Virginia, thence, easterly and at right angles to said West Norfolk Road 25'; thence parallel with said West Norfolk Road and southerly to the Port Warden's line in the Elizabeth River; thence, westerly along said Port Warden's line 103', more or less, to a point, said point being the extension to the south of the western right-of-way line of West Norfolk Road; thence running northerly along said right-of-way line of West Norfolk Road and the extension thereof, a distance of 260', more or less, to a point; thence crossing West Norfolk Road in an easterly direction and at right angles thereto, a distance of 80', more or less, to the point of beginning; the other with all water privileges, riparian rights, and appurtenances in any way appertaining or belonging to said land and to any structure, trestle or bridge located thereon.

IT BEING the same property conveyed to Associated Naval Architects, Inc. by Deed from the City of Portsmouth, Virginia, dated August 10, 1979 and recorded April 30, 1983 in the Clerk's Office of the Circuit Court of the City of Portsmouth, Virginia in Deed Book 788 at page 303

PARCEL FIVE
Closed Portion of Fourth Avenue in West Norfolk lying between the Southern right of way line of Washington Street and its southern terminus in the Elizabeth River.

IT BEING the same property closed by the City of Portsmouth by Ordinance No. 1968-31 and recorded June 17, 2011 in the Clerk's Office of the Circuit Court of the City of Portsmouth, Virginia as Document no. # 0005644.

FIELD LEGAL DESCRIPTION

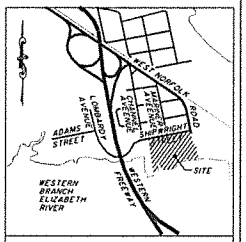
BEGINNING AT A POINT AT THE INTERSECTION OF THE WESTERN RIGHT-OF-WAY OF WEST NORFOLK ROAD AND THE SOUTHERN RIGHT-OF-WAY OF SHIPWRIGHT STREET; THENCE LEAVING SHIPWRIGHT STREET S 23°55'40" E A DISTANCE OF 290.56' TO A POINT; THENCE N 66°04'20" E A DISTANCE OF 65.00' TO A POINT; THENCE S 23°55'40" E A DISTANCE OF 557.96' TO A POINT INTERSECTING PORT WARDEN'S LINE; THENCE ALONG SAID PORT WARDEN'S LINE S 82°41'19" W A DISTANCE OF 853.81' TO A POINT; THENCE LEAVING SAID LINE N 24°02'32" W A DISTANCE OF 602.80' TO A POINT; THENCE N 65°57'28" E A DISTANCE OF 234.36' TO A POINT; WHICH IS THE POINT OF BEGINNING, HAVING AN AREA OF 373,263 SQUARE FEET, OR 13.206 ACRES

EXCEPTIONS FROM TITLE COMMITMENT FILE NO. 091033699, PREPARED BY OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY, DATED SEPTEMBER 28, 2011

3. TERMS, PROVISIONS, RESTRICTIONS, CONDITIONS, EASEMENTS, LIENS, ASSESSMENTS, DEVELOPER RIGHTS, OPTIONS, RIGHTS OF FIRST REFUSAL AND RESERVATIONS CONTAINED IN INSTRUMENT RECORDED IN THE CLERK'S OFFICE OF THE CIRCUIT COURT OF CITY OF CHESAPEAKE, VA IN DEED BOOK 143 AT PAGE 84; DEED BOOK 260 AT PAGE 298 AND DEED BOOK 330 AT PAGE 323, BUT OMITTING ANY COVENANT OR RESTRICTION BASED ON RACE, COLOR, RELIGION, SEX, HANDICAP, FAMILIAL STATUS, OR NATIONAL ORIGIN UNLESS AND ONLY TO THE EXTENT THAT SAID COVENANT (A) IS EXEMPT UNDER CHAPTER 42, SECTION 3607 OF THE UNITED STATES CODE, OR (B) RELATED TO HANDICAP BUT DOES NOT DISCRIMINATE AGAINST HANDICAPPED PERSONS

4. RIPARIAN RIGHTS OF OTHERS INCIDENT TO THE PREMISES. TITLE TO THAT PORTION OF THE PROPERTY LOCATED BELOW THE MEAN HIGH WATER MARK. NOTE: RIPARIAN RIGHTS HAVE NOT BEEN SEVERED

5. ANY ENCROACHMENT, ENCUMBRANCE, VIOLATION, VARIATION, OR ADVERSE CIRCUMSTANCE THAT WOULD BE DISCLOSED BY AN ACCURATE AND COMPLETE LAND SURVEY OF THE LAND. THE COVERAGE AFFORDED BY COVERED MATTER 2(C) OF THE FINAL TITLE POLICY IS HEREBY DELETED.



LOCATION MAP 1"=1000'

LEGEND

SH	SPRINKLER HEAD
LP	LIGHT POLE
TP	TELEPHONE PEDESTAL
PP	POWER POLE / GUY WIRE / NUMBER
MB	MAIL BOX
BOL	BOLLARD
GP	GATE POST
SN	SIGN
WLM	WATER LINE MONITOR
	FENCE
	CONCRETE
ME	MECHANICAL EQUIPMENT
HYD	FIRE HYDRANT
FDC	FIRE DEPARTMENT CONNECTION
WV	WATER VALVE
WM	WATER METER
WVB	WATER METER VAULT BOX
SMH	SANITARY MANHOLE
SCO	SANITARY CLEANOUT
EMH	ELECTRICAL MANHOLE
MH	STORM MANHOLE
TMH	TELEPHONE MANHOLE
DI	DROP INLET
CB	CATCH BASIN
GM	GAS METER
GV	GAS VALVE
15" RCP	REINFORCED CONCRETE PIPE
FES	FLARED END SECTION PIPE
	OVERHEAD ELECTRIC WIRES
TSP	TRAFFIC SIGNAL POLE (ON CONC PED)
TCB	TRAFFIC CONTROL BOX
JB	ELECTRIC JUNCTION BOX
RR	RAIL ROAD CROSSING GATE
	ELECTRIC TRANSMISSION TOWER
ET	ELECTRIC TRANSFORMER
O—O—O—	ORANGE PAINT (UNDERGROUND TELEPHONE)
B—B—B—	BLUE PAINT (WATER LINE)
R—R—R—	RED PAINT (UNDERGROUND ELECTRIC)
Y—Y—Y—	YELLOW PAINT (UNDERGROUND GAS)
NO	INDICATES NUMBER OF 9' x 19' PARKING SPACES
NO HC	INDICATES NUMBER OF 8' x 19' HANDICAP PARKING SPACES

SURVEY CERTIFICATION

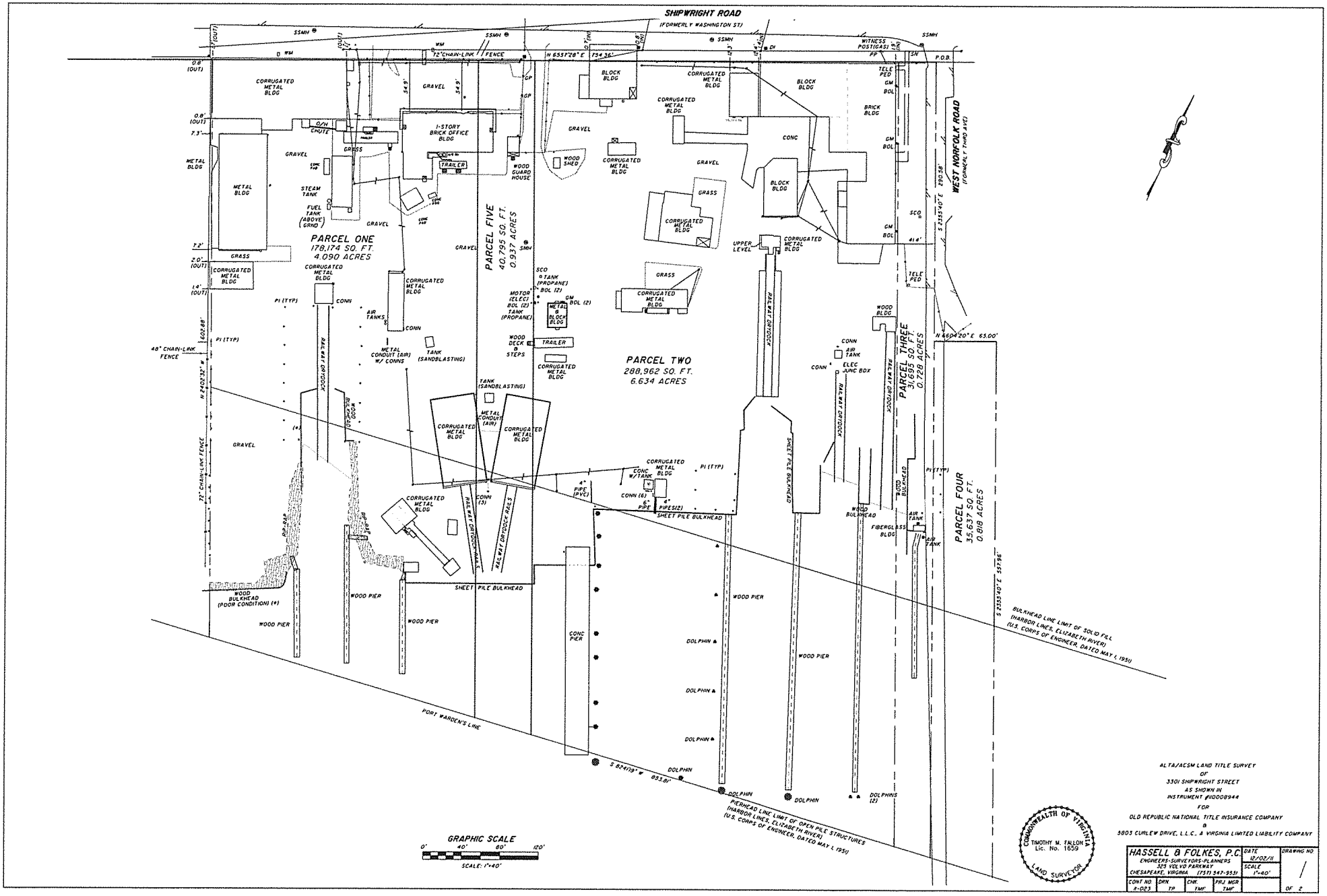
TO: OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY
5803 CURLEW DRIVE, L.L.C., A VIRGINIA LIMITED LIABILITY COMPANY

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED IN ACCORDANCE WITH THE 2011 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1-4, 7-9, 11a, AND 13 OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON MAY 12, 2011.
DATE OF MAP/PLAT: DECEMBER 02, 2011

SIGNED: _____
TIMOTHY M. FALLON, LAND SURVEYOR, VA L.S. No. 1659 DATE

COMMONWEALTH OF VIRGINIA
TIMOTHY M. FALLON
Lic. No. 1659
LAND SURVEYOR

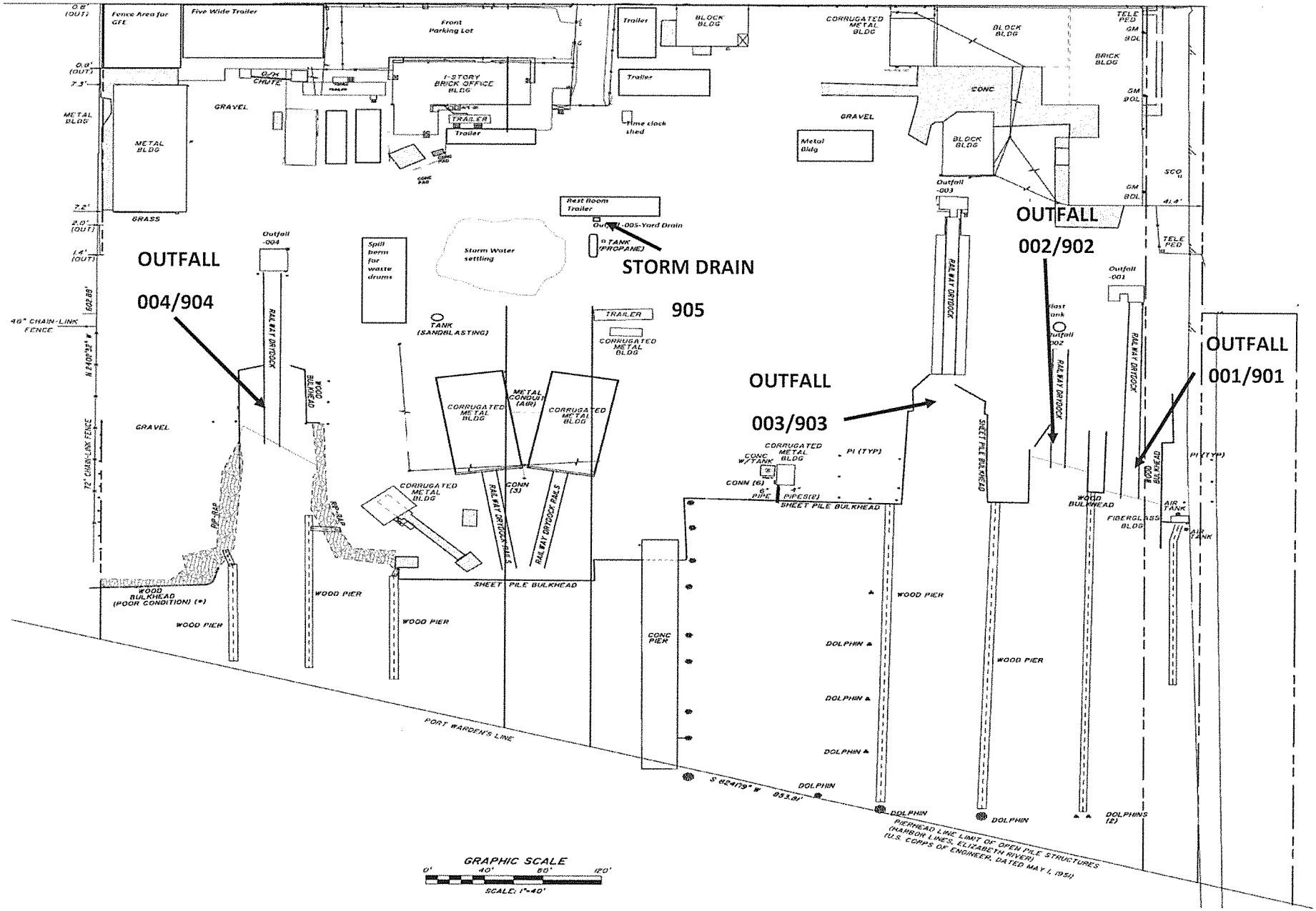
HASSELL & FOLKES, P.C. ENGINEERS-SURVEYORS-PLANNERS 325 VOLVO PARKWAY CHESAPEAKE, VIRGINIA (757) 547-9531				DATE 12/02/11	DRAWING NO.
				SCALE N/A	1
CONT NO 11-023	DRN. TP	CHK. TMF	PRJ MGR. TMF		OF 2



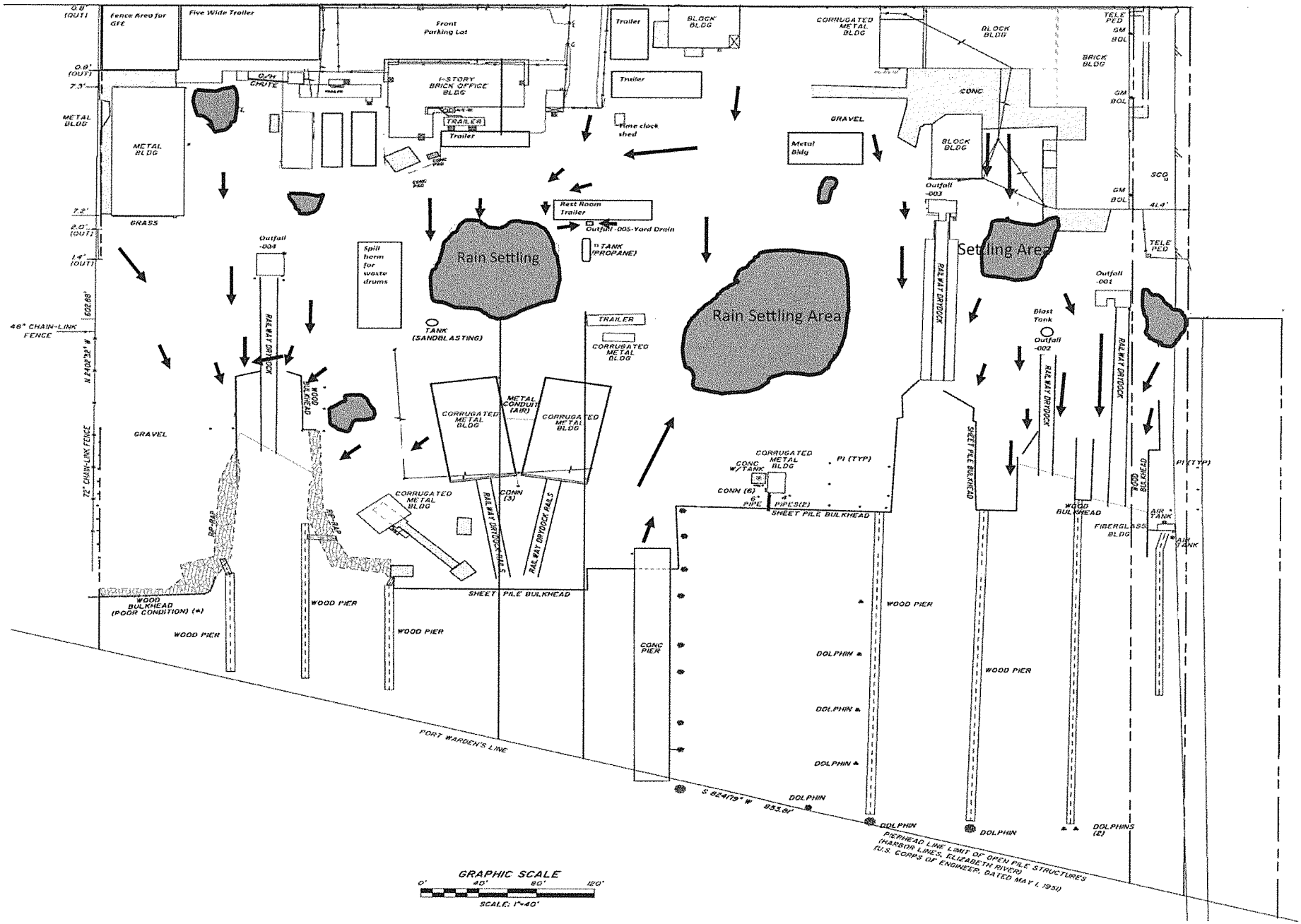
ALTA/ACSM LAND TITLE SURVEY
OF
3301 SHIPWRIGHT STREET
AS SHOWN IN
INSTRUMENT #100008944
FOR
OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY
&
3803 CURLEW DRIVE, L.L.C., A VIRGINIA LIMITED LIABILITY COMPANY

HASSELL & FOLKES, P.C. ENGINEERS-SURVEYORS-PLANNERS 525 VOLVO PARKWAY CHESAPEAKE, VIRGINIA (757) 547-9551			DATE 12/02/11		DRAWING NO
			SCALE 1"=40'		1
CONT NO A-023	DRN TP	CHK TMF	PRJ MGR TMF		OF 2

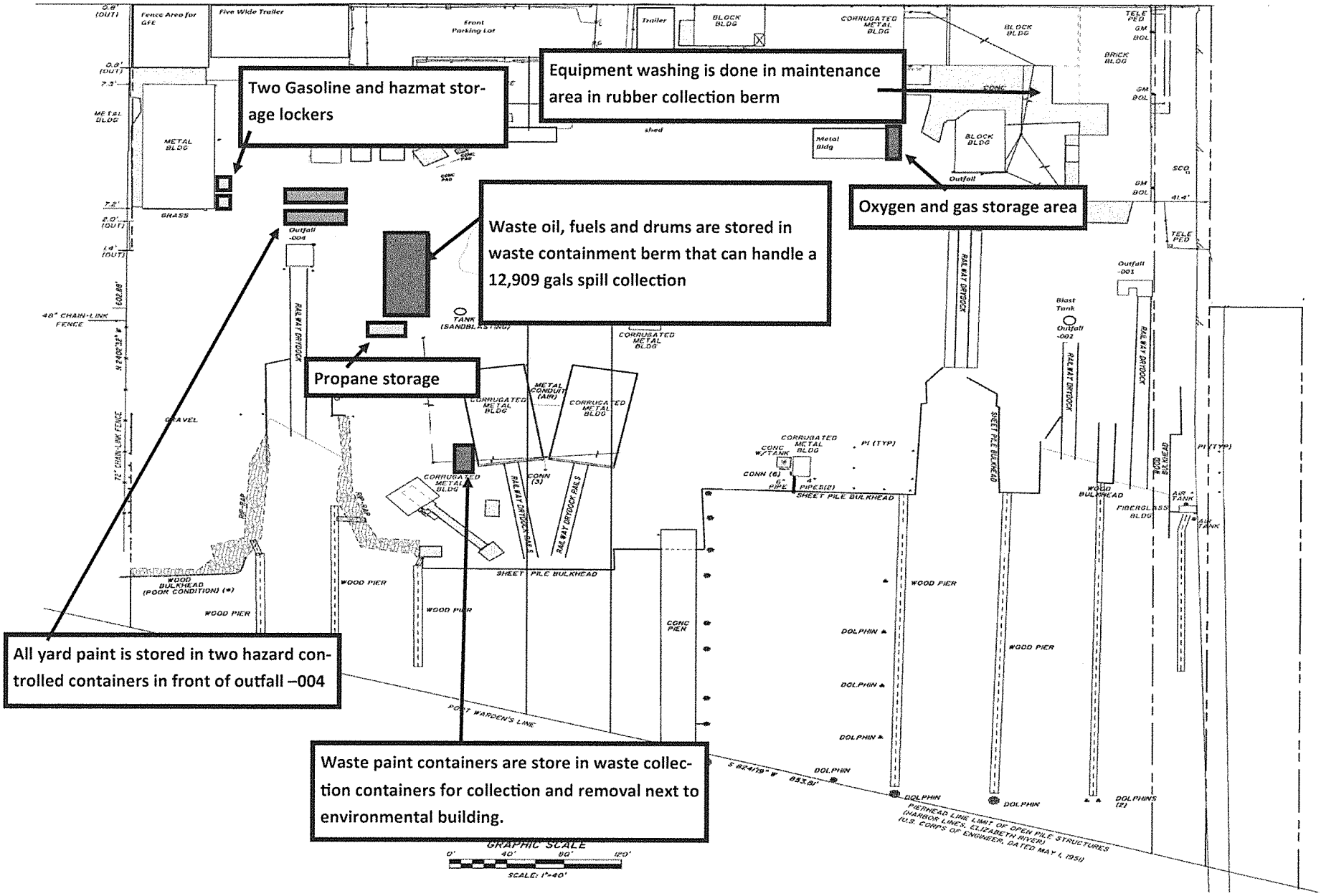
OUTFALL LOCATIONS



STORM WATER RUN-OFF



PAINT , WASTE AND HAZARADOUS STORAGE AREAS



Please print or type in the unshaded areas only.

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)
VAD003174885

Form Approved.
OMB No. 2040-0086.
Approval expires 3-31-98.

FORM **2C** NPDES

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS
Consolidated Permits Program

I. OUTFALL LOCATION

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. OUTFALL NUMBER (*list*)	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER (*name*)
	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	
001	36.00	51.00	36.04	76.00	20.00	40.24	Western Branch of Elizabeth River
002	36.00	51.00	35.43	76.00	20.00	40.54	Western Branch of Elizabeth River
003	36.00	51.00	35.81	76.00	20.00	41.73	Western Branch of Elizabeth River
004	36.00	51.00	34.06	76.00	20.00	47.00	Western Branch of Elizabeth River
N/A							

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (*e.g., for certain mining activities*), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

1. OUTFALL NO. (*list*)	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT		
	a. OPERATION (*list*)	b. AVERAGE FLOW (*include units*)	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1	
001	Marine Railway	8,000 sq. ft.	Process waste water	4	A
002	Marine Railway	3,500 sq. ft.	Process waste water	4	A
003	Marine Railway	9,000 sq. ft.	Process waste water	4	A
004	Marine Railway	3,600 sq. ft.	Process waste water	4	A

OFFICIAL USE ONLY (*effluent guidelines sub-categories*)

CONTINUED FROM THE FRONT

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☑ YES (*complete the following table*) ☐ NO (*go to Section III*)

1. OUTFALL NUMBER (*list*)	2. OPERATION(s) CONTRIBUTING FLOW (*list*)	3. FREQUENCY		4. FLOW				
		a. DAYS PER WEEK (*specify average*)	b. MONTHS PER YEAR (*specify average*)	a. FLOW RATE (*in mgd*)		B. TOTAL VOLUME (*specify with units*)		C. DURATION (*in days*)
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	
001	Water washing of hulls to remove marine growth for hull inspections	Less than 1	6	.0001	.0001	.0001 mgd	.0001 mgd	.0001 mgd
002	This railway is not operational. It will stay on permit but we have no plans to operate this unit	N/A	N/A	N/A	N/A	N/A	N/A	N/A
003	Water washing of hulls to remove marine growth for hull inspections	Less than 1	6	.0001	.0001	.0001 mgd	.0001 mgd	.0001 mgd
004	Water washing of hulls to remove marine growth for hull inspections	Less than 1	6	.0001	.0001	.0001 mgd	.0001 mgd	.0001 mgd

III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☐ YES (*complete Item III-B*) ☑ NO (*go to Section IV*)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (*or other measure of operation*)?

☐ YES (*complete Item III-C*) ☑ NO (*go to Section IV*)

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION			2. AFFECTED OUTFALLS (*list outfall numbers*)
a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. (*specify*)	
N/A			

IV. IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operations of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

☐ YES (*complete the following table*) ☑ NO (*go to Item IV-B*)

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE	
	a. NO.	b. SOURCE OF DISCHARGE		a. REQUIRED	b. PROJECTED
N/A					

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (*or other environmental projects which may affect your discharges*) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction.

☐ MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

 CONTINUE ON PAGE 3

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)
VAD003174885

CONTINUED FROM PAGE 2

V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding – Complete one set of tables for each outfall – Annotate the outfall number in the space provided.
NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
None			

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☐ YES (*list all such pollutants below*) ☑ NO (*go to Item VI-B*)

N/A

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☑ YES (*identify the test(s) and describe their purposes below*) ☐ NO (*go to Section VIII*)

Whole Effluent Toxicity (WET)

Outfall	Date	Test
001	1/20/2011	M. Bahia EPA 2007.0 and C. Variegatus EPA 2004.0
004	5/16/2011	M. Bahia EPA 2007.0 and C. Variegatus EPA 2004.0
001	2/10/2012	M. Bahia EPA 2007.0 and C. Variegatus EPA 2004.0
004	5/8/2012	M. Bahia EPA 2007.0 and C. Variegatus EPA 2004.0
001	4/16/2013	M. Bahia EPA 2007.0
004	11/26/2013	M. Bahia EPA 2007.0
003	11/26/2013	M. Bahia EPA 2007.0
001	11/26/2013	M. Bahia EPA 2007.0
002	12/4/2013	M. Bahia EPA 2007.0

VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

☑ YES (*list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below*) ☐ NO (*go to Section IX*)

A. NAME	B. ADDRESS	C. TELEPHONE (*area code & no.*)	D. POLLUTANTS ANALYZED (*list*)
Universal Laboratories	20 Reserch Drive, Hampton Virginia	757-865-0880	Toxicity

IX. CERTIFICATION

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 gather and evaluate the information submitted. Based on 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.

A. NAME & OFFICIAL TITLE (*type or print*)	B. PHONE NO. (*area code & no.*)
Jorge Rivera, President	(757) 455-9600
C. SIGNATURE	D. DATE SIGNED
	7-25-14

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (*use the same format*) instead of completing these pages.
SEE INSTRUCTIONS.

EPA I.D. NUMBER (*copy from Item 1 of Form 1*): VAD003174885

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

OUTFALL NO. 003

PART A –You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	3. UNITS (*specify if blank*) a. CONCEN-TRATION	b. MASS	4. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Biochemical Oxygen Demand (*BOD*)												
b. Chemical Oxygen Demand (*COD*)												
c. Total Organic Carbon (*TOC*)												
d. Total Suspended Solids (*TSS*)												
e. Ammonia (*as N*)												
f. Flow	VALUE Estimated		VALUE		VALUE					VALUE		
g. Temperature (*winter*)	VALUE		VALUE		VALUE			°C		VALUE		
h. Temperature (*summer*)	VALUE		VALUE		VALUE			°C		VALUE		
i. pH	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM				STANDARD UNITS				

PART B – Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (*if available*)	2. MARK "X" a. BELIEVED PRESENT	b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCEN-TRATION	b. MASS	5. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Bromide (24959-67-9)		X												
b. Chlorine, Total Residual	X													
c. Color		X												
d. Fecal Coliform	X													
e. Fluoride (16984-48-8)		X												
f. Nitrate-Nitrite (*as N*)	X													

Pending Lab testing

CONTINUE ON REVERSE

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (*if available*)	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (*as N*)		X												
h. Oil and Grease		X												
i. Phosphorus (as P), Total (7723-14-0)		X												
j. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium, Total		X												
(4) Radium 226, Total		X												
k. Sulfate (*as* SO_4) (14808-79-8)		X												
l. Sulfide (*as S*)		X												
m. Sulfite (*as* SO_3) (14265-45-3)		X												
n. Surfactants		X												
o. Aluminum, Total (7429-90-5)		X												
p. Barium, Total (7440-39-3)		X												
q. Boron, Total (7440-42-8)		X												
r. Cobalt, Total (7440-48-4)		X												
s. Iron, Total (7439-89-6)		X												
t. Magnesium, Total (7439-95-4)		X												
u. Molybdenum, Total (7439-98-7)		X												
v. Manganese, Total (7439-96-5)		X												
w. Tin, Total (7440-31-5)		X												
x. Titanium, Total (7440-32-6)		X												

Pending Lab testing

 CONTINUE ON PAGE V-3

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)	OUTFALL NUMBER
VAD003174885	905

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (*secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions*), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4,6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (*all 7 pages*) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (*if available*) (2) MASS	c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (*if available*) (2) MASS	d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)			X												
2M. Arsenic, Total (7440-38-2)			X												
3M. Beryllium, Total (7440-41-7)			X												
4M. Cadmium, Total (7440-43-9)	X	X													
5M. Chromium, Total (7440-47-3)	X	X													
6M. Copper, Total (7440-50-8)	X	X													
7M. Lead, Total (7439-92-1)	X	X													
8M. Mercury, Total (7439-97-6)			X												
9M. Nickel, Total (7440-02-0)			X												
10M. Selenium, Total (7782-49-2)			X												
11M. Silver, Total (7440-22-4)			X												
12M. Thallium, Total (7440-28-0)			X												
13M. Zinc, Total (7440-66-6)	X	X													
14M. Cyanide, Total (57-12-5)	X	X													
15M. Phenols, Total			X												
DIOXIN															
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

Pending Lab testing

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Accrolein (107-02-8)			X												
2V. Acrylonitrile (107-13-1)			X												
3V. Benzene (71-43-2)			X												
4V. Bis (*Chloro-methyl*) Ether (542-88-1)			X												
5V. Bromoform (75-25-2)			X												
6V. Carbon Tetrachloride (56-23-5)			X												
7V. Chlorobenzene (108-90-7)			X												
8V. Chlorodi-bromomethane (124-48-1)			X												
9V. Chloroethane (75-00-3)			X												
10V. 2-Chloro-ethylvinyl Ether (110-75-8)			X												
11V. Chloroform (67-66-3)			X												
12V. Dichloro-bromomethane (75-27-4)			X												
13V. Dichloro-difluoromethane (75-71-8)			X												
14V. 1,1-Dichloro-ethane (75-34-3)			X												
15V. 1,2-Dichloro-ethane (107-06-2)			X												
16V. 1,1-Dichloro-ethylene (75-35-4)			X												
17V. 1,2-Dichloro-propane (78-87-5)			X												
18V. 1,3-Dichloro-propylene (542-75-6)			X												
19V. Ethylbenzene (100-41-4)			X												
20V. Methyl Bromide (74-83-9)			X												
21V. Methyl Chloride (74-87-3)			X												

Pending Lab testing

CONTINUE ON PAGE V-5

CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS (*continued*)															
22V. Methylene Chloride (75-09-2)			X												
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X												
24V. Tetrachloro-ethylene (127-18-4)			X												
25V. Toluene (108-88-3)			X												
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X												
27V. 1,1,1-Trichloro-ethane (71-55-6)			X												
28V. 1,1,2-Trichloro-ethane (79-00-5)			X												
29V Trichloro-ethylene (79-01-6)			X												
30V. Trichloro-fluoromethane (75-69-4)			X												
31V. Vinyl Chloride (75-01-4)			X												
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)			X												
2A. 2,4-Dichloro-phenol (120-83-2)			X												
3A. 2,4-Dimethyl-phenol (105-67-9)			X												
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X												
5A. 2,4-Dinitro-phenol (51-28-5)			X												
6A. 2-Nitrophenol (88-75-5)			X												
7A. 4-Nitrophenol (100-02-7)			X												
8A. P-Chloro-M-Cresol (59-50-7)			X												
9A. Pentachloro-phenol (87-86-5)			X												
10A. Phenol (108-95-2)			X												
11A. 2,4,6-Trichloro-phenol (88-05-2)			X												

Pending Lab testing

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)			X												
2B. Acenaphtylene (208-96-8)			X												
3B. Anthracene (120-12-7)			X												
4B. Benzidine (92-87-5)			X												
5B. Benzo (*a*) Anthracene (56-55-3)			X												
6B. Benzo (*a*) Pyrene (50-32-8)			X												
7B. 3,4-Benzo-fluoranthene (205-99-2)			X												
8B. Benzo (*ghi*) Perylene (191-24-2)			X												
9B. Benzo (*k*) Fluoranthene (207-08-9)			X												
10B. Bis (*2-Chloro-ethoxy*) Methane (111-91-1)			X												
11B. Bis (*2-Chloro-ethyl*) Ether (111-44-4)			X												
12B. Bis (*2-Chloroisopropyl*) Ether (102-80-1)			X												
13B. Bis (*2-Ethyl-hexyl*) Phthalate (117-81-7)			X												
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X												
15B. Butyl Benzyl Phthalate (85-68-7)			X												
16B. 2-Chloro-naphthalene (91-58-7)			X												
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)			X												
18B. Chrysene (218-01-9)			X												
19B. Dibenzo (*a,h*) Anthracene (53-70-3)			X												
20B. 1,2-Dichloro-benzene (95-50-1)			X												
21B. 1,3-Di-chloro-benzene (541-73-1)			X												

Pending Lab testing

CONTINUE ON PAGE V-7

CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
22B. 1,4-Dichloro-benzene (106-46-7)			X												
23B. 3,3-Dichloro-benzidine (91-94-1)			X												
24B. Diethyl Phthalate (84-66-2)			X												
25B. Dimethyl Phthalate (131 -11-3)			X												
26B. Di-N-Butyl Phthalate (84-74-2)			X												
27B. 2,4-Dinitro-toluene (121-14-2)			X												
28B. 2,6-Dinitro-toluene (606-20-2)			X												
29B. Di-N-Octyl Phthalate (117-84-0)			X												
30B. 1,2-Diphenyl-hydrazine (*as Azo-benzene*) (122-66-7)			X												
31B. Fluoranthene (206-44-0)			X												
32B. Fluorene (86-73-7)			X												
33B. Hexachloro-benzene (118-74-1)			X												
34B. Hexachloro-butadiene (87-68-3)			X												
35B. Hexachloro-cyclopentadiene (77-47-4)			X												
36B Hexachloro-ethane (67-72-1)			X												
37B. Indeno (*1,2,3-cd*) Pyrene (193-39-5)			X												
38B. Isophorone (78-59-1)			X												
39B. Naphthalene (91-20-3)			X												
40B. Nitrobenzene (98-95-3)			X												
41B. N-Nitro-sodimethylamine (62-75-9)			X												
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X												

Pending Lab testing

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
43B. N-Nitro-sodiphenylamine (86-30-6)			X												
44B. Phenanthrene (85-01-8)			X												
45B. Pyrene (129-00-0)			X												
46B. 1,2,4-Tri-chlorobenzene (120-82-1)			X												
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X												
2P. α-BHC (319-84-6)			X												
3P. β-BHC (319-85-7)			X												
4P. γ-BHC (58-89-9)			X												
5P. δ-BHC (319-86-8)			X												
6P. Chlordane (57-74-9)			X												
7P. 4,4'-DDT (50-29-3)			X												
8P. 4,4'-DDE (72-55-9)			X												
9P. 4,4'-DDD (72-54-8)			X												
10P. Dieldrin (60-57-1)			X												
11P. α-Enosulfan (115-29-7)			X												
12P. β-Endosulfan (115-29-7)			X												
13P. Endosulfan Sulfate (1031-07-8)			X												
14P. Endrin (72-20-8)			X												
15P. Endrin Aldehyde (7421-93-4)			X												
16P. Heptachlor (76-44-8)			X												

Pending Lab testing

CONTINUE ON PAGE V-9

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)	OUTFALL NUMBER
VAD003174885	003

CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – PESTICIDES (*continued*)															
17P. Heptachlor Epoxide (1024-57-3)			X												
18P. PCB-1242 (53469-21-9)			X												
19P. PCB-1254 (11097-69-1)			X												
20P. PCB-1221 (11104-28-2)			X												
21P. PCB-1232 (11141-16-5)			X												
22P. PCB-1248 (12672-29-6)			X												
23P. PCB-1260 (11096-82-5)			X												
24P. PCB-1016 (12674-11-2)			X												
25P. Toxaphene (8001-35-2)			X												

Pending Lab testing

Please print or type in the unshaded areas only.

EPA ID Number (*copy from Item 1 of Form 1*)
VAD003174885

Form Approved. OMB No. 2040-0086
Approval expires 5-31-92

FORM
2F
NPDES

U.S. Environmental Protection Agency
Washington, DC 20460

Application for Permit to Discharge Storm Water Discharges Associated with Industrial Activity

Paperwork Reduction Act Notice

Public reporting burden for this application is estimated to average 28.6 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

I. Outfall Location

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. Outfall Number (*list*)	B. Latitude			C. Longitude			D. Receiving Water (*name*)
901	36	51	36.04N	76	20	40.21W	Western Branch of Elizabeth River
902	36	51	35.43N	76	20	40.54W	Western Branch of Elizabeth River
903	36	51	35.81N	76	20	41.73W	Western Branch of Elizabeth River
904	36	51	34.06N	76	20	47.00W	Western Branch of Elizabeth River
Storm Drain 905	36	51	36.14N	76	20	45.28W	Western Branch of Elizabeth River

II. Improvements

A. Are you now required by any Federal, State, or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

1. Identification of Conditions, Agreements, Etc.	2. Affected Outfalls		3. Brief Description of Project	4. Final Compliance Date	
	number	source of discharge		a. req.	b. proj.
N/A					

B: You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

III. Site Drainage Map

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfalls(s) covered in the application if a topographic map is unavailable) depicting the facility including: each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each known past or present areas used for outdoor storage of disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage or disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which received storm water discharges from the facility.

Continue on Page 2

Continued from the Front

IV. Narrative Description of Pollutant Sources

A. For each outfall, provide an estimate of the area (include units) of imperious surfaces (including paved areas and building roofs) drained to the outfall, and an estimate of the total surface area drained by the outfall.

Outfall Number	Area of Impervious Surface *(provide units)*	Total Area Drained *(provide units)*	Outfall Number	Area of Impervious Surface *(provide units)*	Total Area Drained *(provide units)*
901	0	8,000 sq. ft.	903	0	9,000 sq. ft.
902	0	3,000 sq. ft.	904	0	3,600 sq. ft.
905	0	Yard storm drain			

B. Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored or disposed in a manner to allow exposure to storm water; method of treatment, storage, or disposal; past and present materials management practices employed to minimize contact by these materials with storm water runoff; materials loading and access areas, and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied.

Preservation includes preparation and coating. Sandblasting a vessel hull to near white metal is required in many of our custome repair specifications. Abrasive blast material is delivered and stored in closed containers. After the blast material is used fo its intended purpose, it is handled as a solid waste and returned to Virginia Materials, Inc. for recycling or disposal. Abrasiv blast material is temporarily collected on ECR&F property at locations thirty feet or more from the water's edge. It is covered with tarpaulins or similar material for protection until Virginia Materials provides a conveyance for removal. Paint and solvent are normally mixed adjacent to the marine railway or work area. Non-porous materials are placed under the mixing operation. Unused paint and solvent is either suitable for reuse and is returned to the designated storage areas at the end of each paint operation or it is waste. Empty containers, containers with dried product and non-paint waste materials are placed approved wast collection bins while awaiting disposal. Liquid waste is collected in 55 gallon drums for pickup and disposal by Safety Kleen. These drums are placed in our hazard waste containment berm which has a 13,000 gallon spill containment capacity. Maintanence shop cleaning of equipment will be conducted in portable rubber containments systems to allow trapping of waste water for proper collection and removal from property.

C. For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of the treatment the storm water receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solid or fluid wastes other than by discharge.

Outfall Number	Treatment	List Codes from Table 2F-1
901-905	See attached Facility Process Summary	4A

V. Nonstormwater Discharges

A. I certify under penalty of law hat the outfall(s) covered by this application have been tested or evaluated for the presence of nonstormwater discharges, and that all nonstormwater discharged from these outfall(s) are identified in either an accompanying Form 2C or From 2E application for the outfall.

Name and Official Title *(type or print)*	Signature	Date Signed
Jorge Rivera, President		7-25-14

B. Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during a test.

Storm water discharges have been evaluated and recorded quarterly by visual inspection. These inspections are conducted by the facilities environmental manager. BMP's ensure seperation of storm and process waters.

VI. Significant Leaks or Spills

Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released.

NONE

 Continue on Page 3

Facilities Process Summary

Facilities Activities:

East Coast Repair & Fabrication, LLC (ECR&F) is a ship repair facility specializing in small craft repair and modifications on commercial and government vessels. There are four conventional marine railways for dry docking small crafts at the site located on the Western Branch of the Elizabeth River. The principal operations of the ship repair include craft and vessel docking, repair, and preservation and general plant maintenance to support productions activities.

The docking procedure requires initial hull cleaning for inspection and repair. Barnacles and marine growth are removed by scraping and or hose washing. Saltwater from the ECR&F Fire and Saltwater Service System is used to wash marine railway tracks, hauling chain, underwater hull surfaces and railway cradles during the docking procedure. Phosphorous is not used by ECR&F at the marine railways. Waste water generated in this process is diverted, collected, or filtered, to minimize foreign materials entering state waters. Solid waste is handled by Virginia Materials, Inc.

Vessel repair frequently requires renewal of exterior hull plate and sometimes includes renewing various fluids in the main and auxiliary systems within the vessel. Scrap metal is collected on the ground above the tide line and placed in proper disposal containers. Fluids are collected and placed in a waste fluid collection tanks. Tanks are pumped down upon request by C & M Industries, Inc.

Preservation includes preparation and coating. Sandblasting, also referred to as Abrasive Blasting, is the primary means to remove preservative coating, paint, from railway docked vessels. This process of removing coatings systems is specified by the customer were preservative coatings are removed to near bare metal. Abrasive blast material is delivered and stored in closed containers. Containment is constructed to fully enclose the area where abrasive blasted is to be preformed. Abrasive blast material is contained within the containment and recovered upon the completion of work. After the blast material is used for its intended purpose, it is handled as a solid waste and returned to Virginia Materials, Inc. for recycling or disposal. Abrasive blast material is temporarily collected on ECR&F property at locations thirty feet or more from the water's edge. It is covered with tarpaulins or similar material for protection until Virginia Materials provides a conveyance for removal. Paint and solvents are normally mixed adjacent to the marine railway or work area. Non-porous materials are placed under the mixing operation to contain and residual spillage. Unused paint and solvent is either suitable for reuse and is returned to the designated storage areas at the end of each paint operation or it is waste. Empty containers, containers with dried product and non-paint waste materials are placed approved waste collection bins while awaiting disposal. Liquid waste is collected in 55 gallon drums for pickup and disposal by Safety-Kleen Environmental Products and Services. These drums are placed in our hazard waste containment berm which has a 13,000 gallon spill containment capacity.

Yard maintenance is normally performed on motorized equipment in the maintenance shop area which is covered or adjacent to it on a non-porous surface. Waste petroleum products are collected in the shop and transferred to 4000 gallon waste fluid collection tank for disposal. This tank is also stored in our waste containment berm. Waste fluids and water is picked up and disposed of by C & M Industries. New and reusable petroleum products are stored on pallets in area of spill containment berm.

Compliance Assurance:

In order to ensure compliance with all applicable environmental requirements, ECR&F has made environmental concerns a functional step in our bid and work planning process. This ensures that environmental concerns for air protection containment and waste water entry into local water ways are planned for, on the front end of our operational process. Prevention. ECR&F's plan is to prevent spent blast media form entering the water stream. Solid barriers or freeboard behind the bulkhead will be used at each marine railway so that storm water will be diverted from discharging directly into the Elizabeth River. Sand-blasting will not be conducted over the water. Vessels extending over the water are now outfitted with fabricated platforms (dance floors) which allow sandblasting of the entire hull and provide a collection point for blast material to fall and be collected for disposal without entry into water ways.

Continued from Page 2

EPA ID Number *(copy from Item 1 of Form 1)*
VAD003174885

VII. Discharge Information

A, B, C, & D: See instructions before proceeding. Complete one set of tables for each outfall. Annotate the outfall number in the space provided. Table VII-A, VII-B, VII-C are included on separate sheets numbers VII-1 and VII-2.

E. Potential discharges not covered by analysis – is any toxic pollutant listed in table 2F-2, 2F-3, or 2F-4, a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☐ Yes (*list all such pollutants below*) ☑ No (*go to Section IX*)

N/A

VIII. Biological Toxicity Testing Data

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☑ Yes (*list all such pollutants below*) ☐ No (*go to Section IX*)

Whole Effluent Toxicity (WET)

Outfall	Date	Test
001	1/20/2011	M. Bahia EPA 2007.0 and C. Variegatus EPA 2004.0
004	5/16/2011	M. Bahia EPA 2007.0 and C. Variegatus EPA 2004.0
001	2/10/2012	M. Bahia EPA 2007.0 and C. Variegatus EPA 2004.0
004	5/8/2012	M. Bahia EPA 2007.0 and C. Variegatus EPA 2004.0
001	4/16/2013	M. Bahia EPA 2007.0
004	11/26/2013	M. Bahia EPA 2007.0
003	11/26/2013	M. Bahia EPA 2007.0
001	11/26/2013	M. Bahia EPA 2007.0
002	12/4/2013	M. Bahia EPA 2007.0

IX. Contract Analysis Information

Were any of the analyses reported in Item VII performed by a contract laboratory or consulting firm?

☑ Yes (*list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below*) ☐ No (*go to Section X*)

A. Name	B. Address	C. Area Code & Phone No.	D. Pollutants Analyzed
Universal Laboratories	20 Reserch Drive, Hampton Virginia	757-865-0880	Toxicity

X. Certification

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 gather and evaluate the information submitted. Based on 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.

A. Name & Official Title (*Type Or Print*)	B. Area Code and Phone No.
Jorge Rivera, President	(757) 455-9600
C. Signature	D. Date Signed
	7-25-14

EPA ID Number (*copy from Item 1 of Form 1*)
VAD003174885

Form Approved. OMB No. 2040-0086
Approval expires 5-31-92

VII. Discharge information *(Continued from page 3 of Form 2F)*

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
Oil and Grease		N/A				
Biological Oxygen Demand (BOD5)						
Chemical Oxygen Demand (COD)						
Total Suspended Solids (TSS)						
Total Nitrogen						
Total Phosphorus						
pH	Minimum	Maximum	Minimum	Maximum		

Part B – List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
257 Petroleum						
Hydrocarbons						
442 copper						
Dissolved						
448 Zinc,						
Dissolved						
199 Flow						
Precipitation						

Pending Lab testing on 7-24-14

Continue on Reverse

Continued from the Front

Part C - List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

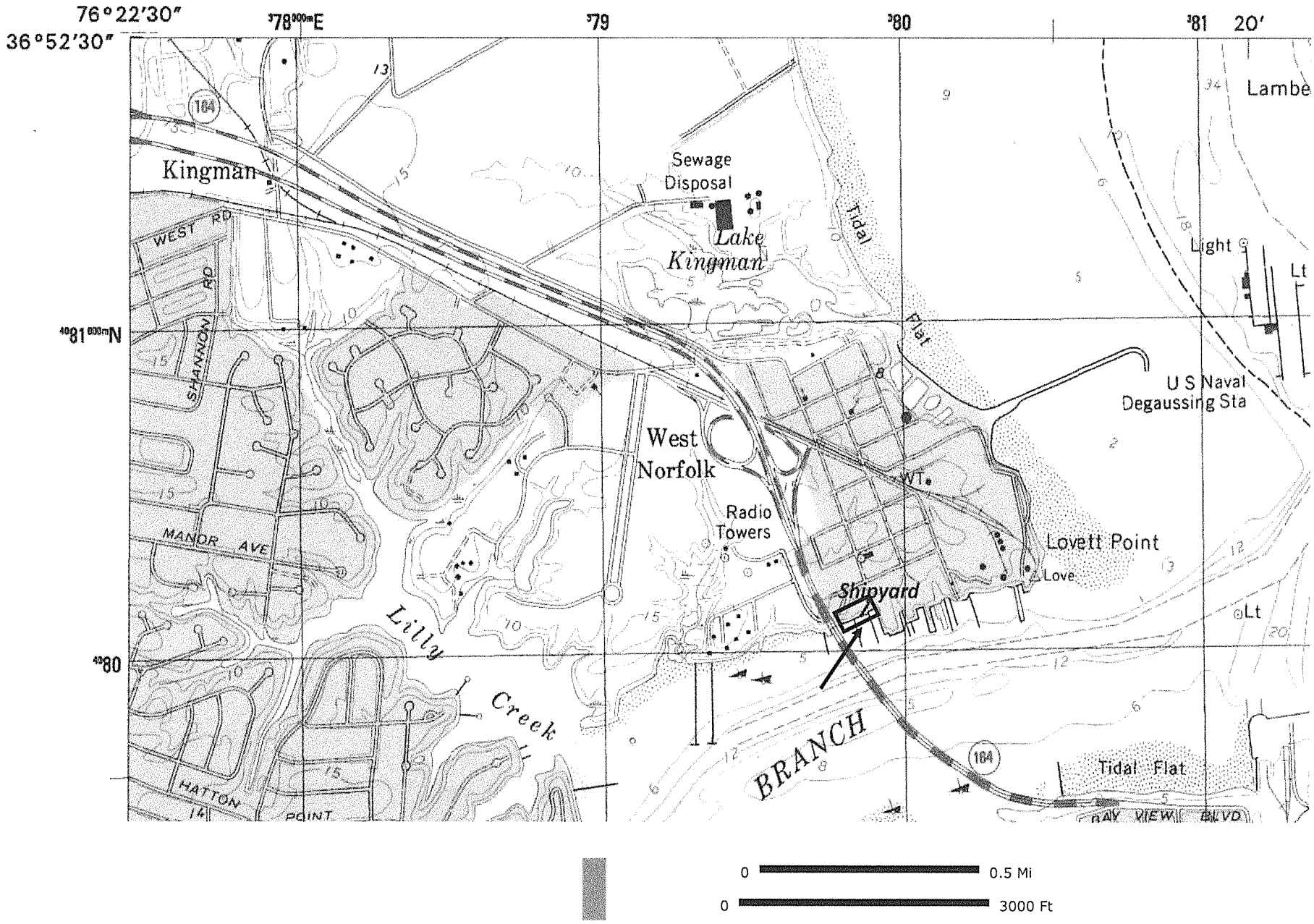
Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		

Part D – Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

1. Date of Storm Event	2. Duration of Storm Event *(in minutes)*	3. Total rainfall during storm event *(in inches)*	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event *(gallons/minute or specify units)*	6. Total flow from rain event *(gallons or specify units)*
N/A					

7. Provide a description of the method of flow measurement or estimate.

N/A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Disposal
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Tidal
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Norfolk
Radio
Towers
WT
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Degaussing Sta
Lovett Point
Love
Shipyard
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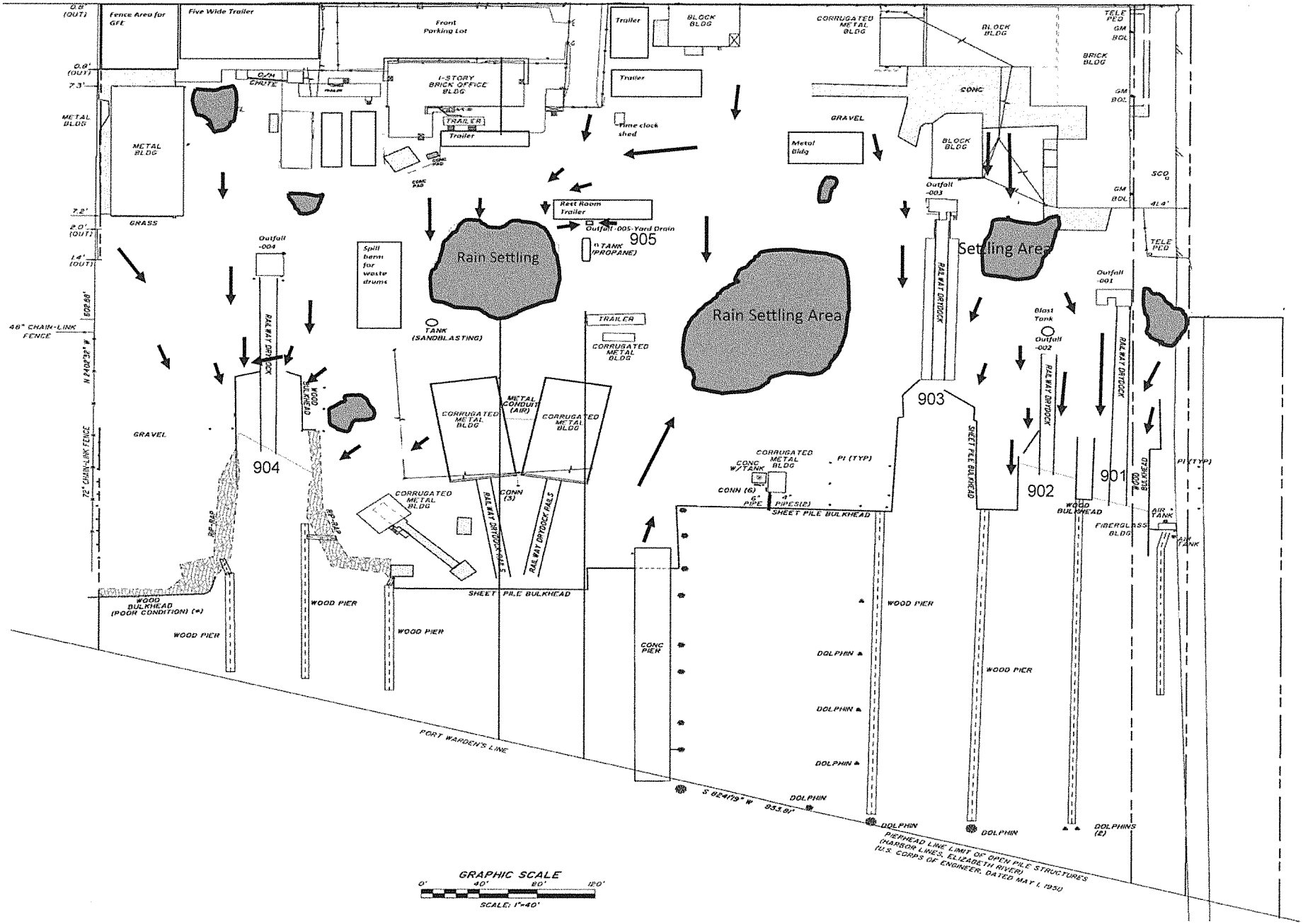
STORM WATER RUN-OFF



Thomas, Carl (DEQ)

From: Al Payne [apayne@ecrandf.com]
Sent: Monday, August 04, 2014 11:59 AM
To: Thomas, Carl (DEQ)
Cc: Shane Bangert
Subject: Testing results for Yard Storm Drain
Attachments: Ammendement and results for -2F.pdf

Mr. Thomas

Please find our testing results for outfall 005 as required by EPA form 2F section VII part (a) and (b):

Originals copies will be dropped off.

Alphonso R. Payne
Safety Manager (Div-3)
East Coast Repair & Fabrication, LLC.
3400 Shipwright Street
Portsmouth, Virginia 23703
Phone: (757) 455-9600 ext 3109 Fax: (757) 452-6635
Cell: (757) 593-5932

East Coast Repair & Fabrication, LLC, Div-3
3400 Shipwright Street
Portsmouth, Virginia 23703
Ph: (757) 484-5320 Fax: (757) 483-1383

August 4, 2014

Mr. Carl Thomas
Virginia D. E. Q.
5636 Southern Blvd
Virginia Beach, VA 23462

Dear Mr. Thomas

1. Please fine attached East Coast Repair & Fabrication's, test result report as required by EPA form (2F) section VIII on yard storm water drain for renewal of company's water permit. This report is the completion of (pending lab testing on 7-24-14) amendment.

2. Quotes have been received to test for pollutants we feel could be present as required by EPA form (2C) per pages V1 thru V9. Due to close proximity of all outfalls to each other and that two railways are out of service at this time. We plan to conduct test on outfall 001 to be representative of results that would exists for all outfalls. This report will be submitted as soon as results arrive.

Shane Bangert, Corporate Safety Director
East Coast Repair & Fabrication, LLC

UNIVERSAL LABORATORIES

REPORT OF ANALYSIS

Order ID: 1407379

(REPORT DATE)
01-Aug-14

TO: East Coast Repair & Fabrication
3400 SHIPWRIGHT STREET

PORTSMOUTH VA 23703

ATTN: Al Payne

FaxNumber: (757)483-1386
E-MAIL

This report contains the analytical results for Project Id VPDES Semi-Annual designated as UL Order Id **1407379** and received on *Friday, July 25, 2014*
The results contained in this report relate only to the samples identified on this order. The analytical results meet all requirements of NELAC unless specifically stated. This report shall not be reproduced except in full.

The data in this report has been reviewed and validated by:

Carol Kleemeier — Signature
Carol Kleemeier — Name
Pres/Tech Director — Title

ANALYTICAL DATA REPORT

UL ORDER ID 1407379

UL Sample Number 1407379-001

Grab Date/Time: 07/24/2014 20:15:00

Composite Start: N/A

Composite Stop: N/A

Collected By: Client

Sample Site: OF-905 Grab

Client Sample ID: OF-905 Grab

Sample Matrix: Stormwater

Parameter	Test Result	Units	RL	Analysis Date/Time	Analyst	Comment
EPA 1664						
OIL and Grease (HEM)	<5	mg/L	5	07/28/2014 16:51:00	EK	
EPA 200.7						
Copper (dissolved)	0.042	mg/L	0.001	07/30/2014 12:51:00	EK	
Zinc (dissolved)	0.018	mg/L	0.005	07/30/2014 12:51:00	EK	
EPA 351.2/353.2						
Nitrate-Nitrite	0.1	mg/L	0.1	07/28/2014 19:28:00	LS	
Total Kjeldahl Nitrogen (TKN)	0.6	mg/L	0.2	07/28/2014 19:28:00	LS	
Total Nitrogen	0.7	mg/L	0.2	07/28/2014 19:28:00	LS	
EPA 365.1						
Total Phosphorus	0.47	mg/L	0.02	07/28/2014 14:05:00	LS	
Estimated/Measured						
Total Flow (client provided)	*0.00001	MGD	0.0001	07/24/2014	C	
HACH 8000						
Chemical Oxygen Demand	<20	mg/L	10	07/30/2014 16:43:00	JS	
SM 4500 H/B						
pH (client provided)	*6.89	S.U.	0.1	07/24/2014 20:15:00	C	
SM-2540 D						
Total Suspended Solids	7.3	mg/L	1	07/27/2014 18:31:00	LS	
SM-5210						
BOD5	<2	mg/L	2	07/26/2014 17:43:00	SW	
SW-846 8015 C						
TPH DRO	<0.5	mg/L	0.5	07/28/2014 17:54:00	BD	
SW-846 8260 B						
TPH GRO	<0.5	mg/L	0.5	07/29/2014 18:00:00	BD	

Comments for 1407379-001

No comments

ANALYTICAL DATA REPORT

UL ORDER ID 1407379

Analytical Methods Reference

VDEH Lab# 00030 VELAP ID 460036 NCDW Lab # 51706 NCWW Lab # 543

Description:	Prep Method:	Method	Reference	accredited/status
Field Services				
DMR report preparation		Manual		
Filtration Apparatus		Manual		
Transportation		Manual		
Stormwater				
Biochemical Oxygen Demand	SM 5210 B	SM-5210	2011	Accredited
Total Flow (client provided)		Estimated/Measured		
Chemical Oxygen Demand		HACH 8000	40 CFR part 136 App. A	Accredited
pH (client provided)		SM 4500 H/B	18th Edition	* Not Accredited
Copper (dissolved)	EPA 200.2 con	EPA 200.7	40 CFR part 136 App. A	Accredited
Hexane Extract. Material (O&G)		EPA 1664	A - 40 CFR part 136 App. A	Accredited
Total Nitrogen	SEAL EPA 136	EPA 351.2/353.2	Version 2	Accredited
Phosphorus (Total)	SEAL EPA 119	EPA 365.1	Version 2	Accredited
Diesel Range Organics	SW-846 3510	SW-846 8015 C	3rd Edition	Accredited
Gasoline Range Organics	SW-846 5030 B	SW-846 8260 B	3rd Edition	Accredited
Total Suspended Solids		SM-2540 D	2011	Accredited
Zinc (dissolved)	EPA 200.2	EPA 200.7	40 CFR part 136 App. A	Accredited

NOTE: Analysis is performed according to Universal Laboratories Standard Operating Procedures which are based on the analytical methods referenced above

ANALYTICAL DATA REPORT

UL ORDER ID 1407379

GLOSSARY OF TERMS AND ABBREVIATIONS

RL (Reporting Limit): The minimum levels, concentrations or quantities of target analyte that can be reported with a specified degree of confidence.Generally this number is near or equal to the lowest calibration standard run with the analytical batch.

MDL (Method Detection Limit): The constituent concentration that, when processed through the complete method, produces a signal with a 99% probability that it is different from the blank

LCS (Laboratory Control Sample): Is a sample matrix free from the analytes of interest, spiked with verified amounts of analytes.

MS (Matrix Spike): a sample prepared by adding a known mass of target analyte to a specific amount of sample for which an independant estimate of target analyte concentration is available

MSD (Matrix Spike Duplicate) is a replicate matrix spike prepared in the laboratory and anlyzed to obtain a measure of the precision recovery for each analtye.

Surrogate is a substance with properties that mimic the analyte of interest.It is unlikely to be found in environmental samples and is added to them for quality control purposes

IS (Internal Standard): is a known amount of standard added to a test portion of the sample as a reference for evaluation and controlling the precision and bias of the applied analytical method.

RPD (Relative Percent Difference) is the difference between a set of sample duplicates or sample spike duplicates

ICV (Initial Calibration Verification) CCV (Continuing Calibration Verification) FCV (Final Calibration Verification)

Method Blank is a sample matrix similar to the batch of associated samples that is free from analytes of interest and is processed simultaneously with and under the same conditions as samples

Trip Blank is a sample of analyte free media collected in the same type of container that is required for the analytical test, taken from the laboratory to the sampling site and returned to the laboratory unopened. A trip blank is used to document contamination attributable to shipping and field handling procedures

Holding Time is the maximum times that samples may be held prior to analysis and still be considered valid or not compromised

ug/L=ppb ug/kg=ppb mg/kg=ppm mg/L=ppm

HAM= Analyzed in Hampton Lab

FRED= Analyzed in Fredericksburg Lab

QC Flag	Description
B	Analyte found in method blank
H	Holding time exceeded
L	LCS outside acceptable limits
V	ICV/CCV/FCV outside acceptable limits
D	RPD outside acceptable limits
MS	Matrix spike recovery outside acceptable limits
J	Result above calibration curve approximate value
QC	Method QC Critera not met
MI	Matrix Interference
S	Surrogate outside acceptable limits
IS	Internal standard outside acceptable limits
*	VELAP accreditation not available
**	VELAP not accredited
T	value is between the RL and MDL

Universal Laboratories

20 Research Drive Hampton, Va.
Phone: (757)865-0080 Fax: (757)865-8014

EXPRESS LOG-IN
CHAIN OF CUSTODY

UL ORDER ID **1407379**

Order Comment:

Pre-Log Date: Wednesday, July 23, 2014

Samples Must Be Received on or Before:

ANA East Coast Repair & Fabrication
3400 SHIPWRIGHT STREET
PORTSMOUTH VA 23703

ProjectID: VPDES Semi-Annual

Project Notes:

QuoteID: Q1006020
Permit Number: VA0087599
ProjectLocation:

Customer Contact: Al Payne

Phone Number:
FaxNumber: (757)483-1386

Rain Started at 20:00 with Flow at 2016

1407379-001 OF-905 Grab — **Sample Date/Time** 7/24/2014 20:00 7/27/2014 16:15 — **Sampler Initials** GAP

Field Reading pH = 6.89 / 16.3°C

						Container Type	Preservative
Stormwater A,B,C	TPHDR	Diesel Range Organics				Amber Glass	H2SO4 or HCL pH< 2/4C DT
D	TP	Phosphorus (Total)				Amber Glass	H2SO4 pH<2/4C DT
E	COD	Chemical Oxygen Demand	TN	Total Nitrogen		HDPE	H2SO4 pH<2/4C DT
F	BOD	Biochemical Oxygen Demand	G TSS	Total Suspended Solids		HDPE	Refrigerate, 4 C
H	CUID	Copper (dissolved)	ZNID	Zinc (dissolved)		HDPE (acid wash	Filter HNO3 ph<2 DT
	CFLOW	Total Flow (client provided)	CPH	pH (client provided)		N/A	N/A
J,K	TPHGR	Gasoline Range Organics				VOA	HCL pH<2
L,M	OGT	Hexane Extract. Material (O&G)				WMG (solvent rins	H2SO4 pH<2/4C

1407379-002 Field Service — **Sample Date/Time** 7/25/14 __:__ __/__/__ __:__ — **Sampler Initials** DT

Field Reading

							Container Type	Preservative
Field Services	DMRPR	DMR report preparation	FILTER	Filtration Apparatus	TRANS	Transportation	N/A	N/A

Comments:

CN int check Phenol in check NH3 int check BOD int check

Cooler Temp @ Log-In 1°C
Preservation 22

Relinquished By Signature:	*Company:* SCREF	*Date/Time:* 7/25/14 1600
Received By Signature:	*Company:* UL	*Date/Time:* 7/25/14 1600
Relinquished By Signature:	*Company:*	*Date/Time:*
Received By Signature:	*Company:*	*Date/Time:*
Relinquished By Signature:	*Company:*	*Date/Time:*
Received By Signature:	*Company:*	*Date/Time:*

PERMITTEE NAME/ADDRESS (INCLUDE FACILITY NAME / LOCATION IF DIFFERENT)

NAME East Coast Repair and Fabrication LLC Div-3
ADDRESS 3400 Shipwright St.
Portsmouth, VA 23703

FACILITY LOCATION 3400 Shipwright St. VA 23703 Portsmouth

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

VA0087599	005
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	14	07	01	TO	14	12	31

Industrial Minor 09/25/2003
DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)

Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

NOTE: Read permit and general instructions before completing this form.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
002 PH	REPORTED	*********	*********		6.89	*********	6.89	SU	0	1/6M	GRAB
	PERMIT REQUIREMENT	*********	*********		6.0	*********	9.0	SU		1/6M	GRAB
004 TSS	REPORTED	*********	*********		*********	*********	7.3	MG/L	0	1/6M	GRAB
	PERMIT REQUIREMENT	*********	*********		*********	*********	NL	MG/L		1/6M	GRAB
199 FLOW, PRECIPITATION EVENT	REPORTED	*********	0.00001	MG ~~XXXXXX~~ ~~0.0001Y~~	*********	*********	*********		0	1/6M	EST
	PERMIT REQUIREMENT	*********	NL	MG	*********	*********	*********			1/6M	EST
257 PETROLEUM HYDROCARBONS, TOTAL RECOVERABLE	REPORTED	*********	*********		*********	*********	<1	MG/L	0	1/6M	GRAB
	PERMIT REQUIREMENT	*********	*********		*********	*********	NL	MG/L		1/6M	GRAB
442 COPPER, DISSOLVED (UG/L AS ZN)	REPORTED	*********	*********		*********	*********	42	UG/L	0	1/6M	GRAB
	PERMIT REQUIREMENT	*********	*********		*********	*********	NL	UG/L		1/6M	GRAB
448 ZINC, DISSOLVED (UG/L AS ZN)	REPORTED	*********	*********		*********	*********	18	UG/L	0	1/6M	GRAB
	PERMIT REQUIREMENT	*********	*********		*********	*********	NL	UG/L		1/6M	GRAB
	REPORTED										
	PERMIT REQUIREMENT										

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

QLs - Dissolved Copper = 20 ug/l, Dissolved Zinc = 100 ug/l, Total Suspended Solids = 1.0 mg/l, Total Petroleum Hydrocarbons = 5.0 mg/L

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW (M.G.)	TOTAL BOD5 (K.G.)

I certify under penalty of law that this document and all attachments were prepared under my directions or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based o

OPERATOR IN RESPONSIBLE CHARGE			DATE		
ALPHONSO PAYNE		VA0087599	08	04	2014
TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE			
SHANE BANGERT		757-455-9600	08	04	2014
TYPED OR PRINTED NAME	SIGNATURE		YEAR	MO.	DAY

Thomas, Carl (DEQ)

From: Al Payne [apayne@ecrandf.com]
Sent: Monday, August 25, 2014 8:27 AM
To: Thomas, Carl (DEQ)
Cc: Shane Bangert; Rick Davis; Jorge Rivera
Subject: Final Water Testing
Attachments: Water Test-004-8-25-14.pdf

Mr. Thomas

1. Please fine attached East Coast Repair & Fabrication's, test result report as required by EPA form (2C), pages V1 thru V9, off outfall -004 for renewal of company's water permit. This report is the completion of water testing requirements for our permit application if outfall 004 is approved as representative of 001, 002 and 003 due to close proximity of each outfall to each other.
2. The original copies will be dropped off to your office today (8-25-2014).

Alphonso R. Payne
Safety Manager (Div-3)
East Coast Repair & Fabrication, LLC.
3400 Shipwright Street
Portsmouth, Virginia 23703
Phone: (757) 455-9600 ext 3109 Fax: (757) 452-6635
Cell: (757) 593-5932

East Coast Repair & Fabrication, LLC, Div-3
3400 Shipwright Street
Portsmouth, Virginia 23703
Ph: (757) 484-5320 Fax: (757) 483-1383

August 25, 2014

Mr. Carl Thomas
Virginia D. E. Q.
5636 Southern Blvd
Virginia Beach, VA 23462

HD
RECEIVED – DEQ
AUG 2 5 2014
Tidewater Regional Office

Dear Mr. Thomas

1. Please fine attached East Coast Repair & Fabrication's, test result report as required by EPA form (2C), pages V1 thru V9, off outfall -004 for renewal of company's water permit.

2. Due to close proximity of all outfalls to each other and that two railways are out of service at this time, we are requesting that this sampling be a representative result for outfalls 001, 002, and 003 also. This report is the completion of water testing requirements for our permit application.

Shane Bangert, Corporate Safety Director
East Coast Repair & Fabrication, LLC

UNIVERSAL LABORATORIES

REPORT OF ANALYSIS

Order ID: **1408091**

(REPORT DATE)
22-Aug-14

TO: **East Coast Repair & Fabrication**
3400 SHIPWRIGHT STREET

PORTSMOUTH VA 23703

ATTN: Al Payne

FaxNumber: (757)483-1386
E-MAIL

This report contains the analytical results for Project Id N/A
designated as UL Order Id **1408091** and received on *Friday, August 08, 2014*
The results contained in this report relate only to the samples identified on this order. The analytical results meet all requirements of NELAC unless specifically stated. This report shall not be reproduced except in full.

The data in this report has been reviewed and validated by:

Carol Kleemeier — Signature
Carol Kleemeier — Name
Pres/Tech Director — Title

ANALYTICAL DATA REPORT

UL ORDER ID 1408091

UL Sample Number 1408091-001

Grab Date/Time: 08/08/2014 13:05:00

Composite Start: N/A

Composite Stop: N/A

Collected By: winand

Sample Site: OF-004 Grab

Client Sample ID: OF-004 Grab

Sample Matrix: Wastewater

Parameter	Test Result	Units	RL	Analysis Date/Time	Analyst	Comment
EPA 200.7						
Cadmium (Total)	<0.005	mg/L	0.005	08/12/2014 16:44:00	LS	
Chromium (Total)	<0.005	mg/L	0.005	08/12/2014 16:44:00	LS	
Copper (Total)	0.192	mg/L	0.001	08/12/2014 16:44:00	LS	
Lead (Total)	<0.005	mg/L	0.005	08/12/2014 16:44:00	LS	
Zinc (Total)	0.802	mg/L	0.005	08/12/2014 16:44:00	LS	
EPA 335.4						
Cyanide (Total)	<0.005	mg/L	0.005	08/14/2014 14:02:00	LS	
EPA 350.1						
Ammonia	0.3	mg/L	0.2	08/11/2014 16:37:00	JS	
EPA 353.2						
Nitrate-Nitrite	0.3	mg/L	0.1	08/11/2014 13:53:00	JS	
Estimated/Measured						
Flow Rate	*0.0072	MGD	0.0001	08/08/2014 13:07:00	AW	
HACH 8000						
Chemical Oxygen Demand	21	mg/L	10	08/13/2014 08:30:00	KA	
SM 4500 H/B						
Field pH	*7.7	S.U.	0.1	08/08/2014 13:07:00	AW	
SM-2540 D						
Total Suspended Solids	1.5	mg/L	1	08/10/2014 19:31:00	JS	
SM-4500 CL/G						
Field Residual Chlorine	*0.22	mg/L	0.1	08/08/2014 13:10:00	AW	
SM-5210						
BOD5	5 B	mg/L	2	08/08/2014 15:05:00	SW	
SM-5310 C						
Total Organic Carbon	Attached	mg/L	1	08/21/2014 04:43:00	SUB	
SM-9222 D						
Fecal Coliform	<1	CFU/100m	1	08/08/2014 16:44:00	LS	

Comments for 1408091-001

No comments

ANALYTICAL DATA REPORT

UL ORDER ID 1408091

Analytical Methods Reference

VDEH Lab# 00030 VELAP ID 460036 NCDW Lab # 51706 NCWW Lab # 543

Description:	Prep Method:	Method	Reference	accredited/status
Field Services				
Grab Sample		Manual		
Transportation		Manual		
Wastewater				
Biochemical Oxygen Demand	SM 5210 B	SM-5210	2011	Accredited
Cadmium (Total)	EPA 200.2	EPA 200.7	40 CFR part 136 App. A	Accredited
Cyanide (Total)	SEAL EPA 130 A	EPA 335.4	Rev 1993	Accredited
Chemical Oxygen Demand		HACH 8000	40 CFR part 136 App. A	Accredited
Chromium (Total)	EPA 200.2	EPA 200.7	40 CFR part 136 App. A	Accredited
Copper (Total)	EPA 200.2 con centrated	EPA 200.7	40 CFR part 136 App. A	Accredited
Fecal Coliform (MF)		SM-9222 D	1997	Accredited
Flow Rate		Estimated/Measured		
Field pH		SM 4500 H/B	18th Edition	* Not Accredited
Ammonia	SEAL EPA 129 A	EPA 350.1	Version 2	Accredited
Nitrate-Nitrite	SEAL EPA 126 A	EPA 353.2	Version 2	Accredited
Lead (Total)	EPA 200.2	EPA 200.7	40 CFR part 136 App. A	Accredited
Field Residual Chlorine		SM-4500 CL/G	18th Edition	Not Accredited
Total Organic Carbon		SM-5310 C	21st Edition	Accredited
Total Suspended Solids		SM-2540 D	2011	Accredited
Zinc (Total)	EPA 200.2	EPA 200.7	40 CFR part 136 App. A	Accredited

NOTE: Analysis is performed according to Universal Laboratories Standard Operating Procedures which are based on the analytical methods referenced above

ANALYTICAL DATA REPORT

UL ORDER ID 1408091

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RL (Reporting Limit): The minimum levels, concentrations, or quantities of target analyte that can be reported with a specified degreee of confidence.Generally this number is near or equal to the lowest calibration standard run with the analytical batch.

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ug/L=ppb ug/kg=ppb mg/kg=ppm mg/L=ppm

HAM= Analyzed in Hampton Lab

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QC Flag	Description
B	Analyte found in method blank
H	Holding time exceeded
L	LCS outside acceptable limits
V	ICV/CCV/FCV outside acceptable limits
D	RPD outside acceptable limits
MS	Matrix spike recovery outside acceptable limits
J	Result above calibration curve approximate value
QC	Method QC Critera not met
MI	Matrix Interference
S	Surrogate outside acceptable limits
IS	Internal standard outside acceptable limits
*	VELAP accreditation not available
**	VELAP not accredited
T	value is betw een the RL and MDL

Microbac

Laboratory Report Number: L14080911

Dan Thornton
Universal Labs
20 Research Drive
Hampton, VA 23666

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac's Ohio Valley Division (OVD). If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed below.

Laboratory Contact:
Emily Yoak – Client Services Specialist
(740) 373-4071
emily.yoak@microbac.com

I certify that all test results meet all of the requirements of the accrediting authority listed below. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

This report was certified on August 22 2014

David E. Vandenberg

David Vandenberg – Managing Director

State of Origin: NC
Accrediting Authority: Department of the Environment and Natural Resources ID:583
QAPP: Microbac OVD

Microbac

Lab Report #: L14080911
Lab Project #: 3137.001
Project Name: Universal Labs
Lab Contact: Emily Yoak

Record of Sample Receipt and Inspection

Comments/Discrepancies

This is the record of the shipment conditions and the inspection records for the samples received and reported as a sample delivery group (SDG). All of the samples were inspected and observed to conform to our receipt policies, except as noted below.

There were no discrepancies.

Discrepancy	Resolution

Coolers

Cooler #	Temperature Gun	Temperature	COC #	Airbill #	Temp Required?
0019824	I	1.0		1001891732110004575000770837819325	X

Inspection Checklist

#	Question	Result
1	Were shipping coolers sealed?	Yes
2	Were custody seals intact?	Yes
3	Were cooler temperatures in range of 0-6?	Yes
4	Was ice present?	Yes
5	Were COC's received/information complete/signed and dated?	Yes
6	Were sample containers intact and match COC?	Yes
7	Were sample labels intact and match COC?	Yes
8	Were the correct containers and volumes received?	Yes
9	Were samples received within EPA hold times?	Yes
10	Were correct preservatives used? (water only)	Yes
11	Were pH ranges acceptable? (voa's excluded)	Yes
12	Were VOA samples free of headspace (less than 6mm)?	NA

Microbac

Lab Report #: L14080911
Lab Project #: 3137.001
Project Name: Universal Labs
Lab Contact: Emily Yoak

Samples Received

Client ID	Laboratory ID	Date Collected	Date Received
1408091-001	L14080911-01	08/08/2014 13:05	08/15/2014 11:22

Microbac

Lab Report #: L14080911
Lab Project #: 3137.001
Project Name: Universal Labs
Lab Contact: Emily Yoak

Certificate of Analysis

Sample #:	L14080911-01	**PrePrep Method:**	N/A	**Instrument:**	TOC-VWP
Client ID:	1408091-001	**Prep Method:**	SM5310-C-2000	**Prep Date:**	N/A
Matrix:	Water 2	**Analytical Method:**	SM5310-C-2000	**Cal Date:**	07/16/2014 12:00
Workgroup #:	WG489129	**Analyst:**	DCM	**Run Date:**	08/21/2014 04:43
Collect Date:	08/08/2014 13:05	**Dilution:**	1	**File ID:**	TC08202014.049
Sample Tag:	01	**Units:**	mg/L		

Analyte	CAS #	Result	Qual	RL	MDL
Total Organic Carbon	TOC	6.40		1.00	0.500

Microbac Laboratories Inc.
Ohio Valley Division Analyst List
August 22, 2014

001 - BIO-CHEM TESTING WVDEP 220	002 - REIC Consultants, Inc. WVDEP 060
003 - Sturm Environmental	004 - MICROBAC PITTSBURGH
005 - ES LABORATORIES	006 - ALCOSAN LABORATORIES
007 - ALS LABORATORIES	008 - BENCHMARK LABORATORIES
010 - MICROBAC CHICAGOLAND	ADC - ANTHONY D. CANTER
ADG - APRIL D. GREENE	ALS - ADRIANE L. STEED
AWE - ANDREW W. ESSIG	AZH - AFTER HOURS
BJO - BRIAN J. OGDEN	BKT - BRENDAN TORRENCE
BLG - BRENDA L. GREENWALT	BRG - BRENDA R. GREGORY
CAA - CASSIE A. AUGENSTEIN	CAF - CHERYL A. FLOWERS
CEB - CHAD E. BARNES	CJR - COURTNEY J. REXROAD
CLC - CHRYS L. CRAWFORD	CLS - CARA L. STRICKLER
CLW - CHARISSA L. WINTERS	CPD - CHAD P. DAVIS
CSH - CHRIS S. HILL	DAK - DEAN A. KETELSEN
DCM - DAVID C. MERCKLE	DEV - DAVID E. VANDENBERG
DIH - DEANNA I. HESSON	DLB - DAVID L. BUMGARNER
DLP - DOROTHY L. PAYNE	DSM - DAVID S. MOSSOR
ECL - ERIC C. LAWSON	ENY - EMILY N. YOAK
EPT - ETHAN P. TIDD	ERP - ERIN R. PORTER
FJB - FRANCES J. BOLDEN	JBK - JEREMY B. KINNEY
JDH - JUSTIN D. HESSON	JDS - JARED D. SMITH
JJS - JOHN J. STE MARIE	JLL - JOHN L. LENT
JMW - JEANA M. WHITE	JTP - JOSHUA T. PEMBERTON
JWR - JOHN W. RICHARDS	JWS - JACK W. SHEAVES
JYH - JI Y. HU	KAJ - KELLIE A. JOHNSON
KDW - KATHRYN D. WELCH	KEB - KATIE E. BARNES
KHR - KIM H. RHODES	KRA - KATHY R. ALBERTSON
KRB - KAELY R. BECKER	KRP - KATHY R. PARSONS
LEC - LAURA E. CARPENTER	LKN - LINDA K. NEDEFF
LLS - LARRY L. STEPHENS	LSB - LESLIE S. BUCINA
MBK - MORGAN B. KNOWLTON	MDA - MIKE D. ALBERTSON
MDC - MIKE D. COCHRAN	MES - MARY E. SCHILLING
MLB - MEGAN L. BACHE	MMB - MAREN M. BEERY
MRT - MICHELLE R. TAYLOR	MSW - MATT S. WILSON
PDM - PIERCE D. MORRIS	PIT - MICROBAC WARRENDALE
PRL - PAIGE R. LAMB	PSW - PEGGY S. WEBB
QX - QIN XU	RAH - ROY A. HALSTEAD
REK - BOB E. KYER	RLB - BOB BUCHANAN
RM - RAYMOND MALEKE	RNP - RICK N. PETTY
SAV - SARAH A. VANDENBERG	SDC - SHALYN D. CONLEY
SLM - STEPHANIE L. MOSSBURG	SLP - SHERI L. PFALZGRAF
TB - TODD BOYLE	TMB - TIFFANY M. BAILEY
TMM - TAMMY M. MORRIS	VC - VICKI COLLIER
WJB - WILL J. BEASLEY	WRR - WESLEY R. RICHARDS
WTD - WADE T. DELONG	XXX - UNAVAILABLE OR SUBCONTRACT

Microbac Laboratories Inc.
List of Valid Qualifiers
August 22, 2014

Qualkey: STD

Qualifier	Description
*	Surrogate or spike compound out of range
+	Correlation coefficient for the MSA is less than 0.995
<	Result is less than the associated numerical value.
>	Result is greater than the associated numerical value.
A	See the report narrative
B	Analyte present in method blank
B1	Target analyte detected in method blank at or above the method reporting limit
B3	Target analyte detected in calibration blank at or above the method reporting limit
B4	The BOD unseeded dilution water blank exceeded 0.2 mg/L
C	Confirmed by GC/MS
CG	Confluent growth
CT1	The cooler temperature at receipt exceeded regulatory guidelines for requested testing.
DL	Surrogate or spike compound was diluted out
E	Estimated concentration due to sample matrix interference
EDL	Elevated sample reporting limits, presence of non-target analytes
EMPC	Estimated Maximum Possible Concentration
F, S	Estimated result below quantitation limit; method of standard additions(MSA)
F,CT1	Estimated value; the analyte concentration was less than the RL/LOQ. The cooler temperature at receipt exceeded regula
FL	Free Liquid
H1	Sample analysis performed past holding time.
I	Semiquantitative result (out of instrument calibration range)
J	Estimated value; the analyte concentration was less than the RL/LOQ.
J,B	Analyte detected in both the method blank and sample above the MDL.
J,CT1	Estimated value; the analyte concentration was less than the RL/LOQ.
J,CT1	Estimated value; the analyte concentration was less than the RL/LOQ. The cooler temperature at receipt exceeded regula
J,P	Estimate; columns don't agree to within 40%
J,S	Estimated concentration; analyzed by method of standard addition (MSA)
L	Sample reporting limits elevated due to matrix interference
L1	The associated blank spike (LCS) recovery was above the laboratory acceptance limits.
L2	The associated blank spike (LCS) recovery was below the laboratory acceptance limits.
M	Matrix effect; the concentration is an estimate due to matrix effect.
N	Tentatively identified compound(TIC)
NA	Not applicable
ND	Not detected at or above the reporting limit (RL).
ND, B	Not detected at or above the reporting limit (RL). Analyte present in method blank.
ND, CT1	Analyte was not detected. The concentration is below the reported LOD. The cooler temperature at receipt exceeded reg
ND, H1	Not detected; Sample analysis performed past holding time.
ND, L	Not detected; sample reporting limit (RL) elevated due to interference
ND, S	Not detected; analyzed by method of standard addition (MSA)
NF	Not found by library search
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentrations >40% difference between the two GC columns
Q	One or more quality control criteria failed. See narrative.
QNS	Quantity of sample not sufficient to perform analysis
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition (MSA)
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TIC	Library Search Compound
TNTC	Too numerous to count
TNTC, B	Too numerous to count. Analyte present in method blank.
TNTC,CT1	Too numerous to count. The cooler temperature at receipt exceeded regulatory guidelines for requested testing.
TNTC,H1	Too numerous to count. Sample analysis performed past holding time.
U	Analyte was not detected. The concentration is below the reported MDL.
UJ	Undetected; the MDL and RL are estimated due to quality control discrepancies.
UQ	Undetected; the analyte was analyzed for, but not detected.
W	Post-digestion spike for furnace AA out of control limits
X	Exceeds regulatory limit
X, S	Exceeds regulatory limit; method of standard additions (MSA)
Z	Cannot be resolved from isomer - see below

Universal Laboratories
Subcontract Chain of Custody

20 Research Drive
Hampton, Va 23666
Phone: 757-865-0880
Fax: 757-865-8014

Thursday, August 14, 2014

Purchase Order: 140814008

U.L. Contact: ☑ Dan Thornton

To: Sample Receiving
Microbac (OH)

M/WC Accredited 8/14 DT

	Sample #	Sample ID	Test		Method	Matrix	Collection Date	Time
1.	1405142-001 B	T-3 #1 Return A	TOC	Total Organic Carbon	SM-5310 C	Wastewater	08/13/2014	09:50 AM
	1405142-002 B	T-3 #1 Return B	TOC	Total Organic Carbon	SM-5310 C	Wastewater	08/13/2014	09:50 AM
	1405142-003 B	T-3 #1 Return C	TOC	Total Organic Carbon	SM-5310 C	Wastewater	08/13/2014	09:50 AM
	1405142-004 B	T-3 #2 Return A	TOC	Total Organic Carbon	SM-5310 C	Wastewater	08/13/2014	09:55 AM
	1405142-005 B	T-3 #2 Return B	TOC	Total Organic Carbon	SM-5310 C	Wastewater	08/13/2014	09:55 AM
	1405142-006 B	T-3 #2 Return C	TOC	Total Organic Carbon	SM-5310 C	Wastewater	08/13/2014	09:55 AM
	1405142-007 B	T-3 Supply A	TOC	Total Organic Carbon	SM-5310 C	Wastewater	08/13/2014	09:30 AM
	1405142-008 B	T-3 Supply B	TOC	Total Organic Carbon	SM-5310 C	Wastewater	08/13/2014	09:30 AM
	1405142-009 B	T-3 Supply C	TOC	Total Organic Carbon	SM-5310 C	Wastewater	08/13/2014	09:30 AM
	1405142-010 B	T-1A Return A	TOC	Total Organic Carbon	SM-5310 C	Wastewater	08/13/2014	08:55 AM
	1405142-011 B	T-1A Return B	TOC	Total Organic Carbon	SM-5310 C	Wastewater	08/13/2014	08:55 AM
	1405142-012 B	T-1A Return C	TOC	Total Organic Carbon	SM-5310 C	Wastewater	08/13/2014	08:55 AM
	1405142-013 B	T-1A Supply A	TOC	Total Organic Carbon	SM-5310 C	Wastewater	08/13/2014	09:10 AM
	1405142-014 B	T-1A Supply B	TOC	Total Organic Carbon	SM-5310 C	Wastewater	08/13/2014	09:10 AM
	1405142-015 B	T-1A Supply C	TOC	Total Organic Carbon	SM-5310 C	Wastewater	08/13/2014	09:10 AM
2.	1408043-001 D	OF-002 Grab	TOC	Total Organic Carbon	SM-5310 C	Wastewater	08/13/2014	10:30 AM
3.	1408047-001 B	Pretreatment	TOC	Total Organic Carbon	SM-5310 C	Stormwater	08/11/2014	09:50 AM
	1408047-002 B	Post Treatment	TOC	Total Organic Carbon	SM-5310 C	Stormwater	08/11/2014	09:57 AM
4.	1408091-001 B	OF-004 Grab	TOC	Total Organic Carbon	SM-5310 C	Wastewater	08/08/2014	01:05 PM

Microbac OVD
Received: 08/15/2014 11:22
By: BRIAN OGDEN
221000058272

Brian O.

Thursday, August 14, 2014 **Purchase Order: 140814008** U.L. Contact: [i] Dan Thornton

To: Sample Receiving

Microbac (OH)

Shipped By: [ ] UL_Courier [✓] Federal Express

Comments: Please report separately		Cooler Temp @ Log-In	
		Preservation	

Relinquished By Signature: [signature]	Company: UL	Date/Time: 8/14/14 1445
Received By Signature:	Company:	Date/Time:
Relinquished By Signature:	Company:	Date/Time:
Received By Signature:	Company:	Date/Time:
Relinquished By Signature:	Company:	Date/Time:
Received By Signature:	Company:	Date/Time:

Microbac OVD
Received: 08/15/2014 11:22
By: BRIAN OGDEN

221000058272

[signature]

Universal Laboratories

20 Research Drive Hampton, Va.
Phone: (757)-865-0880 Fax: (757) 865-8014

EXPRESS LOG-IN CHAIN OF CUSTODY

UL ORDER ID **1408091**

Order Comment:

Pre-Log Date: Thursday, August 07, 2014

Samples Must Be Received on or Before:

ANA East Coast Repair & Fabrication

3400 SHIPWRIGHT STREET
PORTSMOUTH VA 23703

ProjectID:

Project Notes:

QuoteID: Q1407013
Permit Number:
ProjectLocation:

Customer Contact: Al Payne

Phone Number:
FaxNumber: (757)483-1386

1408091-001 OF-004 Grab — **Sample Date/Time** 8 / 8 / 14 13:05 — **Sampler Initials** AW

Field Reading

Wastewater									Container Type	Preservative
A	COD	Chemical Oxygen Demand	NH3	Ammonia	NN	Nitrate-Nitrite	B TOC	Total Organic Carbon	HDPE	H2SO4 pH<2/4C AW
C	CN	Cyanide (Total)							HDPE	NaOH pH>12 AW
D	BOD	Biochemical Oxygen Demand	E TSS	Total Suspended Solids					HDPE	Refrigerate, 4 C
F	CDIT	Cadmium (Total)	CRIT	Chromium (Total)	CUIT	Copper (Total)	PBIT	Lead (Total)	HDPE (acid wash	HNO3 pH<2 AW
	ZNIT	Zinc (Total)								
	FLOWR	Flow Rate	FPH	Field pH	RCL2	Field Residual Chlorine			N/A	N/A
G	FCMF	Fecal Coliform (MF)							Sterile	Na2S2O3/4C

1408091-002 Field Services — **Sample Date/Time** 8 / 8 / 14 : — / / : — **Sampler Initials** AW

Field Reading

Field Services					Container Type	Preservative
	GRAB	Grab Sample	TRANS	Transportation	N/A	N/A

Comments:

Cooler Temp @ Log-In 1°C

Preservation <2, >12

CN int check Neg Phenol in check NH3 int check BOD int check Neg

Relinquished By Signature:	*Company:* UL	*Date/Time:* 8/8/14 1430
Received By Signature:	*Company:* UL	*Date/Time:* 8/8/14 1430
Relinquished By Signature:	*Company:*	*Date/Time:*
Received By Signature:	*Company:*	*Date/Time:*
Relinquished By Signature:	*Company:*	*Date/Time:*
Received By Signature:	*Company:*	*Date/Time:*