

Permit No. VA0057142

VPDES PERMIT PROGRAM
MAJOR PERMITS & MINOR PERMITS REQUIRING TMPs
FACT SHEET

Fact Sheets shall be completed for all major permits and any minor permits which contain toxics, or have the potential to contain toxics (with exception of laundromats and car washes).

1. Facility Name and Address:

Name and Mailing Address

Location if Different

Pier IX Terminal Company
P.O. Box 38
Newport News, VA 23607

21st and Terminal Avenue
Newport News, VA 23607

Contact: Mr. John Walsh

Contact: Mrs. Ed Walington

2. Permit No. VA00 57142

Expiration Date: July 20, 1991

3. Owner Contact:
(send permit to)

Mr. Charles H. Ritter - President
(Name & Title)

P.O. Box 38

(Address of owner contact)

Newport News, VA 23607

Phone No. (804) 244-8800

4. Permit Drafted By:

Permit Writer(s)

Det - TRV

Date 12-19-90

Region: TBO

Reviewed By:

Date

5. Permit Characterization: (Check as many as necessary)

- ☐ Major
☒ Minor
☒ Existing Discharge
☐ Proposed Discharge

- ☐ Municipal
☐ POTW
☐ Private
☐ Federal
☐ State

- ☒ Industrial
SIC Code(s) 5052,
5032
☐ Private
☐ Federal
☐ State

- ☐ Issuance
☒ Reissuance
☐ Modification
☒ Effluent Limited
☐ Water Quality Limited
☒ Toxics Monitoring Program
Required
☐ Pretreatment Program
Required
☐ Possible Interstate Effect
☐ Compliance Schedule Required
☐ Interim Limits in Permit
☐ Interim Limits in Other Document

10/89

Coal Handling + Cement Handling

APPLICATION COMPLETE: Dec 19, 1990

Appl. rec'd 11-15-90
add'l info 12-5-90
12-12-90

12-19-90

APPENDIX III-1 (Cont.)

TABLE III

Permit No. VA0054142EFFLUENT LIMITATIONS
INDUSTRIALOUTFALL 001[Description sedimentation pond]
SIC CODE 5052, 5032(✓) Final Limitations
() Interim LimitationsDates: From effective
To expiration

Parameter	BASIS				EFFLUENT LIMITS			MONITORING		
	Effluent Guidelines			Best Professional Judgement	Water* Quality	Multiplier Production	Permit Limits			Sample Frequency Type Basis
	BPT (Prop) (Promil)	BAT (Prop) (Promil)	NSPS (Prop) (Promil)				AVG	MIN	MAX	
Flow							NA		NL	1/m estimate
pH (S.U.)					✓			6.0	9.0	1/m grab
Total Suspended Solids (mg/L)							NA		50.0	1/m grab
Total Phosphorus (mg/L) (lb/d)					✓ 4		2.0 / 26.0		NA	1/m grab
Total Nitrogen (mg/L)					✓ 4		NA		NA	1/m grab
Total ARSENIC (mg/L)				✓			NA		NL	1/6m grab
Total Lead (mg/L)				✓			NA		NL	1/6m grab
Total Zinc (mg/L)				✓			NA		NL	1/6m grab
Total Copper (mg/L)				✓			NA		NL	1/6m grab
Total Nickel (mg/L)				✓			NA		NL	1/6m grab
Total Mercury (mg/L)				✓			NA		NL	1/6m grab
Total Aluminum (mg/L)				✓			NA		NL	1/6m grab
Total Magnesium (mg/L)				✓			NA		NL	1/6m grab
Total Selenium (mg/L)				✓			NA		NL	1/6m grab
*Key Hexavalent Chromium (mg/L)				✓			NA		NL	1/6m grab

1. Per 208 Plan and Date
2. Per 303(e) Plan and Date
3. Per 401 Certification and Date
4. SWCB Water Quality Standards + Nutrient Enriched Waters Policy
5. Other

Flow valve 1.58 mads on
20 application

EFFLUENT LIMITATIONS INDUSTRIAL

() Final Limitations
() Interim Limitations

[Description] stormwater runoff

Dates: From effective
To expiration

***Key**

1. Per 208 Plan and Date
2. Per 303(e) Plan and Date
3. Per 401 Certification and Date
4. SWCB Water Quality Standards
5. Other

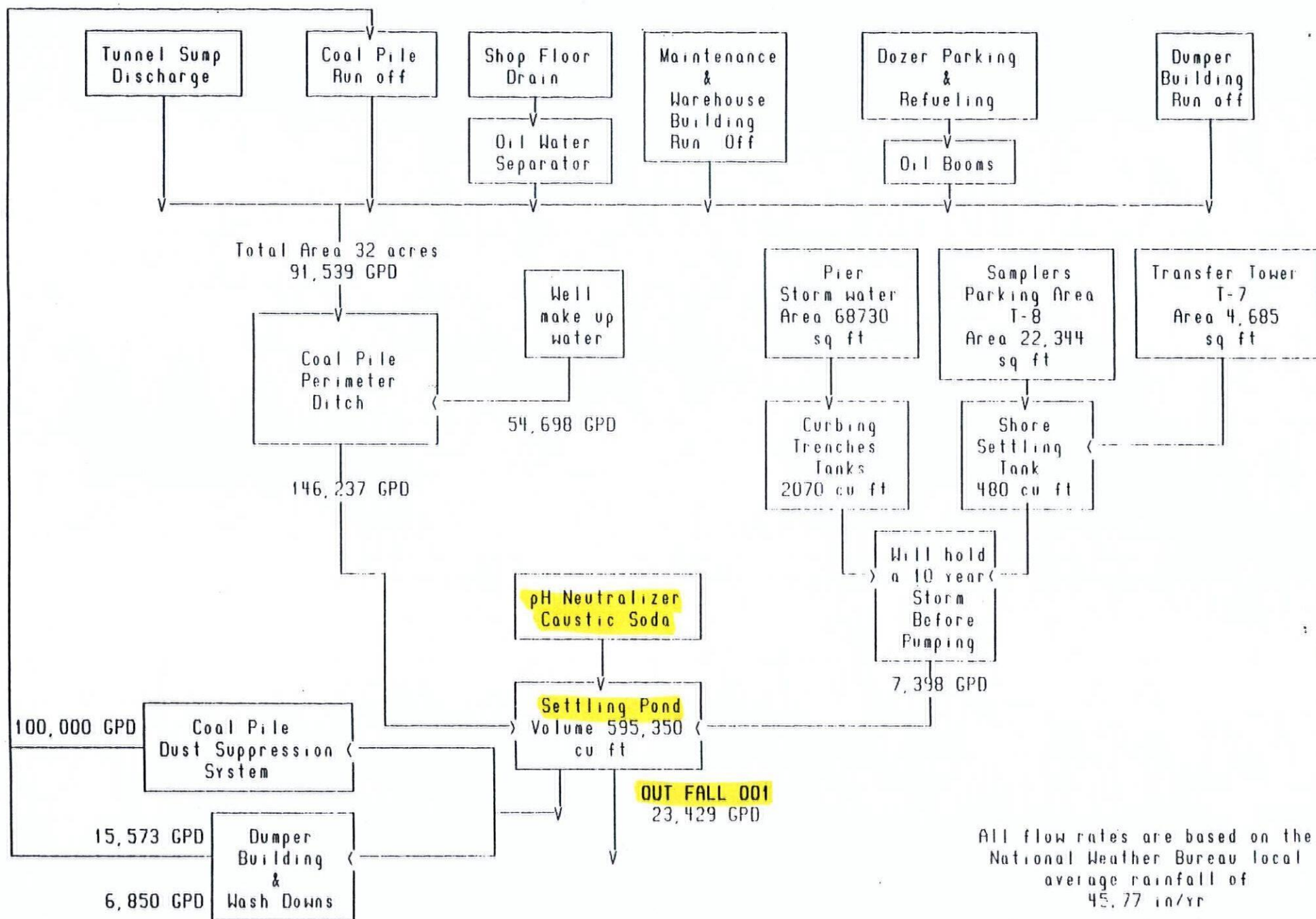
APPENDIX III-1 (Cont.)

Permit No. VA00541426. Receiving Waters Classification:Receiving Stream: James RiverBasin: Lower James River BasinSubbasin: noneSection: 1Class: IISpecial Standard(s): a7/Day-10/Year Low Flow: tidal7. Statutory or Regulatory Basis for Special Conditions and Effluent Limitations: (Check Appropriate)

- ☒ State Water Control Law
☒ Clean Water Act
☒ Permit Regulation (SWCB VPDES Regulation)
☐ EPA NPDES Regulation (Federal Register)
☐ EPA Guidelines
☒ Water Quality Standards
☐ Other (explain) _____

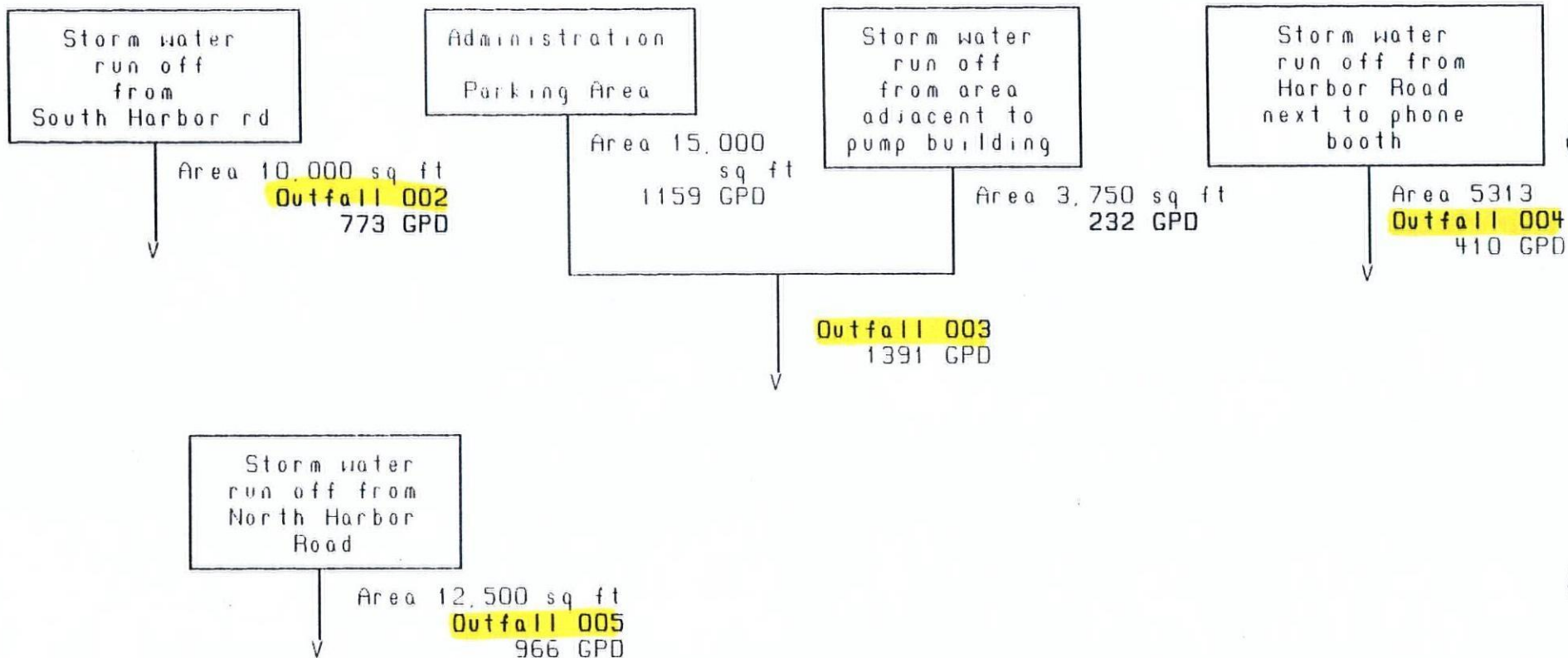
8. Certified Operator Requirements: None Required9. Reliability Class Designation: N/A10. Attach a schematic of Wastewater Treatment System(s), and provide a general description of the production cycle(s) and activities of the facility.

please see attached
ph adjustment
sedimentation pond



All flow rates are based on the
National Weather Bureau local
average rainfall of
45.77 in/yr

Pier IX Terminal
VA0054142



All flow rates are based on the
National Weather Bureau local
average rainfall of
45.77 in/yr

Pier IX Terminal

VA0054142

APPENDIX III-1 (Cont.)

Permit No. VA0054142

11. Discharge(s) Location Description: Provide USGS Topo which indicates the discharge location, significant discharger(s), water intakes, and other items of interest.

Name of Topo: Newport News South

12. Discharge Description: Complete Table I

13. Receiving Waters Information: Attach any memoranda or other information which helped to develop permit conditions, i.e., PReP complaints, special water quality studies, biological and/or chemical data, etc..

14. Effluent Toxicity: OERS shall provide data describing effluent toxicity. This data may be from acute or chronic toxicity test, toxicity test conducted to assess toxicity reduction or test conducted due to a new raw material being used in the process.

15. Effluent Limitations: Include all calculations used for each outfall and set of effluent limits, fill out either Table II and either Table III or IV. Justification for variances and modifications must be addressed in this Section. Also attach calculations used in the model(s) to this fact sheet. If available, please reference the specific chemical data used in the mass balance and the specific identifying information (lab sheet number, lab data, etc.). Provide a rationale for limiting internal wastestreams and indicator pollutants. Complete Table V for all permits with Chlorine limitations.

16. Special Conditions: Give a brief rationale for any special conditions contained in the permit (pretreatment information, toxic pollutants, etc.).

- 1) EPA response - std. guidelines
- 2) uncontaminated stormwater runoff clause - std. guidelines
- 3) material storage clause - std. guidelines
- 4) O+m manual - std. guidelines
- 5) TMP
- 6) nutrient response
- 7) stormwater Sampling Spec. Condition

Newport News South

NEWPORT

7.5 MIN

COMMONWEALTH OF VIRGINIA
DIVISION OF MINERAL RESOURCES

BURG 24 MI. 5758 III SW 373 25' 374 2610 000 FEET BUCKROE BEACH 7 MI. 3.6 MI. TO VA. 134 376



Pier IX Terminal
VA0054142

NEWPORT NEWS

APPENDIX III-1 (Cont.)

Permit No. VA005442

17. List the type and quantity of wastes, fluids, or pollutants being stored at this facility. Briefly describe the storage facilities and list, if any, measures taken to prevent the stored material from reaching State waters.

bulk coal storage

portland cement in 3 silos

18. Table VI is to be used to record changes in the permit (1) from the previously issued permit and/or (2) during the permit processing period.

Special Conditions: (List any changes associated with the special conditions and the reasons for the changes).

1) uncontaminated stormwater runoff - std. guidelines

2) material storage clause - std. guidelines

3) O + M manual - std. guidelines

4) updated TMP - OWCM-TMP

5) Nutrient Response - std. guidance

6) Stormwater Sampling Spec Cond. - stormwater only - appropriate

APPENDIX III-1 (Cont.)

Permit No. VA0054142

Table I

NUMBER AND DESCRIPTION OF OUTFALLS
(Complete this item or attach page one of Form 2C)

<u>Outfall Number</u>	<u>Source of Discharge (List Operations Contributing Flow)</u>	<u>Treatment (Brief Description Unit by Unit)</u>	<u>Flow Average/Maximum (Give Avg and Max for Industry and Design for Municipal)</u>
001	• Sedimentation pond • Coal pile perimeter ditch • Pier stormwater collection system	• sedimentation • pH neutralization	1.587 MGD avg
002	• South Harbor Road stormwater runoff	none	.0001 MGD avg
003	• Administration Building parking lot runoff • Pump house area stormwater	none	.0014 MGD avg
004	• Harbor Road (phone booth area) stormwater runoff	none	.0004 MGD avg
005	• North Harbor Road stormwater runoff	none	.0011 MGD avg

Permit No. VA0054142

outfall 001

Table II

EVALUATION OF EFFLUENT CHARACTERIZATION DATA

Receiving Stream Hardness: _____ mg/l (Provide source)
 Flow: 1.58 MGD (Flow used to calculate mass balance)

Parameter	Effluent Concentration ug/l	Virginia Chronic Criteria Freshwater ug/l	Virginia Chronic Criteria Saltwater ug/l	Projected In-Stream Concentration at 7Q10 or after initial dilution		Comments
				Avg Flow	Max Flow	
Aldrin		0.03	0.003			
Ammonia		See WQ Standards				
Arsenic-trivalent, inorganic, total recoverable	7.0	190	36	.14 ug/L		50:1 dilution
Cadmium total recoverable		$e^{0.7852(\ln(\text{hardness})) - 3.490}$	9.3			
Chlordane		0.0043	0.004			
Chromium-hexavalent, total recoverable		11	50			
Chromium-trivalent, total recoverable	< 10	$e^{0.819(\ln(\text{hardness})) + 1.561}$	no saltwater value	.2 ug/L		50:1 dilution
Copper total recoverable	10	$e^{0.8545(\ln(\text{hardness})) - 1.465}$	2.9	.2 ug/L		50:1 dilution
Cyanide, total		5.2	1.0			
DDT		0.001	0.001			
Demeton		0.1	0.1			

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outfall 001

Table II

EVALUATION OF EFFLUENT CHARACTERIZATION DATA

Receiving Stream Hardness: mg/l (Provide source)
 Flow: 1.58 MGD (Flow used to calculate mass balance)

Parameter	Effluent Concentration ug/l	Virginia Chronic Criteria Freshwater ug/l	Virginia Chronic Criteria Saltwater ug/l	Projected In-Stream Concentration at 7Q10 or after initial dilution.		Comments
				Avg Flow	Max Flow	
Dieldrin		0.0019	0.0019			
Endosulfan		0.056	0.0087			
Endrin		0.0023	0.0023			
Guthion		0.01	0.01			
Heptachlor		0.0038	0.0036			
Hydrogen Sulfide		2.0	2.0			
Iron	900	1,000	no saltwater value	18 ug/L		50:1 dilution
Kepone		Zero	Zero			
Lead, total recoverable	< 10	$e^{1.266(\ln(\text{hardness})) - 4.661}$	5.6	2 ug/L		50:1 dilution
Lindane		0.080	0.0016			
Malathion		0.1	0.1			
Manganese			100			
Mercury (as a standard)	.2		0.10	.004 ug/L		50:1 dilution
Methoxychlor		0.03	0.03			

Permit No. VA0054142
outfall 001

Table II

EVALUATION OF EFFLUENT CHARACTERIZATION DATA

Receiving Stream Hardness: mg/l (Provide source)
 Flow: 1.56 MGD (Flow used to calculate mass balance)

Parameter	Effluent Concentration ug/l	Virginia Chronic Criteria Freshwater ug/l	Virginia Chronic Criteria Saltwater ug/l	Projected In-stream Concentration at 7Q10 or after initial dilution		Comments
				Avg Flow	Max Flow	
Mirex		Zero	Zero			
Nickel total recoverable	220	$e^{0.76(\ln(\text{hardness}))+1.06}$	7.1	4.4 ug/L		50:1 dilution
Parathion		0.04	0.04			
Phenol		1.0	1.0			
Phthalate Esters		3.0	3.0			
Polychlorinated Biphenyls		0.014	0.03			
Selenium total inorganic	15	35	54	.3 ug/L		50:1 dilution
Silver total recoverable		$[e^{1.72(\ln(\text{hardness}))-6.52}] \times .01$	0.023			
Toxaphene		0.013	0.0007			
Tributyltin		.026	.001			
Zinc, total	470	47	58	9.4 ug/L		50:1 dilution

Arsenic

NPID	DTDMRQUE	MQAV	MQMX	MCMN	MCAV mg/L	MCMX mg/L	
VA0057142	02/10/88	-0-	-0-	-0-	-0-	-0-	
VA0057142	04/10/88	-0-	-0-	-0-	-0-	-0-	
VA0057142	06/10/88	-0-	-0-	-0-	0.001	0.001	.00002 mg/L
VA0057142	08/10/88	-0-	-0-	-0-	-0-	-0-	
VA0057142	11/10/88	-0-	-0-	-0-	-0-	-0-	
VA0057142	01/10/89	-0-	-0-	-0-	0.015	0.015	.0003 mg/L
VA0057142	05/10/89	-0-	-0-	-0-	0.001	0.001	.00002 mg/L
VA0057142	06/10/90	-0-	-0-	-0-	0.001	0.001	.00002 mg/L

Saltwater Criteria .036 mg/L

Lead

NPID	DTDRDUE	MQAV	MQMX	MCMN	MCAY <i>mg/L</i>	MCNX <i>mg/L</i>	
VA0057142	02/10/88	-0-	-0-	-0-	-0-	-0-	
VA0057142	04/10/88	-0-	-0-	-0-	-0-	-0-	
VA0057142	04/10/88	-0-	-0-	-0-	-0-	-0-	
VA0057142	06/10/88	-0-	-0-	-0-			
VA0057142	08/10/88	-0-	-0-	-0-			
VA0057142	11/10/88	-0-	-0-	-0-			
VA0057142	01/10/89	-0-	-0-	-0-			
VA0057142	05/10/89	-0-	-0-	-0-			
VA0057142	06/10/90	-0-	-0-	-0-			

0.05 *0.05* *.001 mg/L*

0.05 *0.05* *.001 mg/L*

0.05 *0.05* *.001 mg/L*

0.98 *0.98* *.0196 mg/L*

Saltwater Criteria .0056 mg/L

magnesium

NPID	OTOM	MOUE	MQAV	MQMX	MCMN	MCAV <i>mg/L</i>	MCMX <i>mg/L</i>	
VA0057142	02/10/88	-0-	-0-	-0-	-0-	-0-	-0-	
VA0057142	06/10/88	-0-	-0-	-0-	-0-	19.2	19.2	.384 <i>mg/L</i>
VA0057142	08/10/88	-0-	-0-	-0-	-0-	-0-	-0-	
VA0057142	11/10/88	-0-	-0-	-0-	-0-	-0-	-0-	
VA0057142	01/10/89	-0-	-0-	-0-	-0-	56.	56.	1.12 <i>mg/L</i>
VA0057142	05/10/89	-0-	-0-	-0-	-0-	17.	17.	.34 <i>mg/L</i>
VA0057142	06/10/90	-0-	-0-	-0-	-0-	21.	21.	.42 <i>mg/L</i>

No Criteria

Mercury

NPID	DTORQUE	MQAV	MQMX	MCMN	MCAV <i>mg/L</i>	MCMX <i>mg/L</i>	
VA0057142	02/10/88	-0-	-0-	-0-	-0-	-0-	
VA0057142	06/10/88	-0-	-0-	-0-		0.0004	.000008 mg/L
VA0057142	08/10/88	-0-	-0-	-0-	-0-	-0-	
VA0057142	11/10/88	-0-	-0-	-0-	-0-	-0-	
VA0057142	01/10/89	-0-	-0-	-0-		0.0004	.000008 mg/L
VA0057142	05/10/89	-0-	-0-	-0-		0.0004	.000008 mg/L
VA0057142	06/10/90	-0-	-0-	-0-		0.0002	.000004 mg/L
Saltwater Criteria .0001 mg/L							

Selenium

NPID	DTDRQUE	HQAV	MQMX	MCMN	MCAV mg/L	MCMX mg/L	
VA0057142	02/10/88	-0-	-0-	-0-	-0-	-0-	
VA0057142	06/10/88	-0-	-0-	-0-		0.019	0.019 .00038 mg/L
VA0057142	08/10/88	-0-	-0-	-0-	-0-	-0-	
VA0057142	11/10/88	-0-	-0-	-0-	-0-	-0-	
VA0057142	01/10/89	-0-	-0-	-0-		0.017	0.017 .00034 mg/L
VA0057142	05/10/89	-0-	-0-	-0-		0.034	0.034 .00068 mg/L
VA0057142	06/10/90	-0-	-0-	-0-		0.007	0.007 .00014 mg/L
Saltwater Criteria							.054 mg/L

Copper						
NPID	DTOMRQVE	MQAV	MQMX	MCMN	MCAV mg/L	MCMX mg/L
VA0057142	02/10/88	-0-	-0-	-0-	-0-	-0-
VA0057142	06/10/88	-0-	-0-	-0-	0.04	0.04
VA0057142	07/10/88	-0-	-0-	-0-	-0-	-0-
VA0057142	08/10/88	-0-	-0-	-0-	-0-	-0-
VA0057142	11/10/88	-0-	-0-	-0-	-0-	-0-
VA0057142	01/10/89	-0-	-0-	-0-	0.38	0.38
VA0057142	05/10/89	-0-	-0-	-0-	0.02	0.02
VA0057142	06/10/90	-0-	-0-	-0-	0.02	0.02
Saltwater Criteria .0029 mg/L						

IWC
50:1

.0008 mg/L

.0076 mg/L

.0004 mg/L

.0004 mg/L

Zinc						
NPID	DTOMRQVE	MQAV	MQMX	MCMN	MCAV mg/L	MCMX mg/L
VA0057142	02/10/88	-0-	-0-	-0-	-0-	-0-
VA0057142	06/10/88	-0-	-0-	-0-	0.17	0.17
VA0057142	08/10/88	-0-	-0-	-0-	-0-	-0-
VA0057142	11/10/88	-0-	-0-	-0-	-0-	-0-
VA0057142	01/10/89	-0-	-0-	-0-	2.08	2.08
VA0057142	05/10/89	-0-	-0-	-0-	0.13	0.13
VA0057142	06/10/90	-0-	-0-	-0-	0.054	0.054
Saltwater Criteria .058 mg/L						

.0034 mg/L

.041 mg/L

.0026 mg/L

.001 mg/L

Nickel						
NPID	DTOMRQVE	MQAV	MQMX	MCMN	MCAV mg/L	MCMX mg/L
VA0057142	02/10/88	-0-	-0-	-0-	-0-	-0-
VA0057142	06/10/88	-0-	-0-	-0-	0.06	0.06
VA0057142	08/10/88	-0-	-0-	-0-	-0-	-0-
VA0057142	11/10/88	-0-	-0-	-0-	-0-	-0-
VA0057142	01/10/89	-0-	-0-	-0-	0.7	0.7
VA0057142	05/10/89	-0-	-0-	-0-	0.06	0.06
VA0057142	06/10/90	-0-	-0-	-0-	0.04	0.04
Saltwater Criteria .0071 mg/L						

.0012 mg/L

.014 mg/L

.0012 mg/L

.0008 mg/L

Aluminum						
NPID	DTOMRQVE	MQAV	MQMX	MCMN	MCAV mg/L	MCMX mg/L
VA0057142	02/10/88	-0-	-0-	-0-	-0-	-0-
VA0057142	06/10/88	-0-	-0-	-0-	0.1	0.1
VA0057142	08/10/88	-0-	-0-	-0-	-0-	-0-
VA0057142	11/10/88	-0-	-0-	-0-	-0-	-0-
VA0057142	01/10/89	-0-	-0-	-0-	22.	22.
VA0057142	05/10/89	-0-	-0-	-0-	0.7	0.7
VA0057142	06/10/90	-0-	-0-	-0-	0.3	0.3

Hex Chromium						
NPID	DTOMRQVE	MQAV	MQMX	MCMN	MCAV mg/L	MCMX mg/L
VA0057142	02/10/88	-0-	-0-	-0-	-0-	-0-
VA0057142	04/10/88	-0-	-0-	-0-	-0-	-0-
VA0057142	06/10/88	-0-	-0-	-0-	0.1	0.1
VA0057142	08/10/88	-0-	-0-	-0-	-0-	-0-
VA0057142	11/10/88	-0-	-0-	-0-	-0-	-0-
VA0057142	01/10/89	-0-	-0-	-0-	0.5	0.5
VA0057142	05/10/89	-0-	-0-	-0-	0.01	0.01
VA0057142	06/10/90	-0-	-0-	-0-	0.01	0.01
Saltwater Criteria .05 mg/L						

.002 mg/L

.01 mg/L

.0002 mg/L

.0002 mg/L

APPENDIX III-1 (Cont.)

Table V

Permit No.

VA0054142

This section is to be completed for all permits requiring a schedule of compliance for chlorine.

SCHEDULE OF COMPLIANCE

Discharge No.

- | | |
|--|---|
| 1. Select engineering firm for design (*Initiate design of facilities) | Within (**60) (*30) days after the (modification) (effective) date of the permit. |
| 2. Submit plans to the (**Virginia Health Department and SWCB | Within (**120) (*90) days from #1. |
| 3. Commence Construction | Within (**60) (*30) days of approval of plans. |
| 4. Complete Construction | Within (**180) (*120) days of #3. |
| 5. Achieve Compliance with Effluent Limitations. | 30 days after completion of construction. |

N/A

- * Industrial facilities
- ** Municipal Only

Pier IX Terminal

VA0054142

5032 Brick, Stone, and Related Construction Materials

Establishments primarily engaged in the wholesale distribution of stone, cement, lime, construction sand, and gravel; brick (except refractory); asphalt and concrete mixtures; and concrete, stone, and structural clay products (other than refractories). Distributors of industrial sand and of refractory materials are classified in Industry 5085. Establishments primarily engaged in producing ready-mixed concrete are classified in Manufacturing, Industry 3273.

Aggregate—wholesale
Asphalt mixtures—wholesale
Blocks, building—wholesale
Brick, except refractory—wholesale
Building stone—wholesale
Cement—wholesale
Ceramic construction materials, except refractory—wholesale
Ceramic wall and floor tile—wholesale
Cinders—wholesale
Clay construction materials, except refractory—wholesale
Concrete building products—wholesale
Concrete mixtures—wholesale
Granite building stone—wholesale
Gravel—wholesale

Lime, except agricultural—wholesale
Limestone—wholesale
Marble building stone—wholesale
Masons' materials—wholesale
Paving mixtures—wholesale
Plaster—wholesale
Sand, construction—wholesale
Sewer pipe, clay—wholesale
Stone, building—wholesale
Stone, crushed or broken—wholesale
Stucco—wholesale
Terra cotta—wholesale
Tile, clay or other ceramic: except refractory—wholesale
Tile, structural clay—wholesale

5052 Coal and Other Minerals and Ores

Establishments primarily engaged in the wholesale distribution of coal and coke; copper, iron, lead, and other metallic ores, including precious metal ores; and crude nonmetallic minerals (including concentrates), except crude petroleum. Establishments primarily engaged in the wholesale distribution of nonmetallic minerals used in construction, such as sand and gravel, are included in Industry 5032.

Coal—wholesale
Coke—wholesale
Copper ore—wholesale
Gold ore—wholesale
Iron ore—wholesale
Lead ore—wholesale

Metallic concentrates—wholesale
Metallic ores—wholesale
Nonmetallic minerals and concentrates, crude: except petroleum—wholesale
Silver ore—wholesale
Zinc ore—wholesale

APPENDIX III-1 (Cont.)
Table VI

Permit No. VA0054194

VPDES PERMIT PROGRAM
Permit Processing Change Sheet

1. Effluent Limits and Monitoring Schedule: (List any changes and give a brief rationale for the change).

Outfall No.	Parameter Changed	Monitoring Limits Changed		Effluent Limits Changed		Rationale	Date and Initial
		From	To	From	To		
001	Total Phosphorus (w/d)			27.0	26.0 avg	Flow rate changed, mass loading reflect current	Det 12-4
002	Flow	NA	1/3m	NA	NL	added to permit for new stormwater outfalls as requested by company and in accordance with stormwater regulations	Det 12-4
003		NA	1/3M	NA	6.0-9.0		
004		NA	1/3m	NA	NL		
005		NA	1/3m	NA	NL		
	Total Suspended Solids	NA	1/3m	NA	NL	- in addition, cement trucks use roadways to haul wholesale cement, ph monitoring + limits are warranted on these outfalls elevated levels reported on	
						- 2c appl. for TSS - gte ly monitoring appropriate	

2. Other Changes: FROM: TO:

Special conditions added: stormwater runoff clause, o+m, material storage clause, updated TMP, nutrient opener, sampling clause (1st Rn, 1st Day)

B. OTHER REQUIREMENTS OR SPECIAL CONDITIONS

1. EPA Standard Reopener

This permit shall be modified, or alternatively, revoked and reissued to comply with any applicable effluent standard or limitation issued or approved under Section 301(b) (2) (C), (D) and (E), 304(b) (2) (3) (4), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:

- a. Contains different conditions or is otherwise more stringent than any effluent limitation in the permit, or
- b. Controls any pollutant not limited in the permit.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Act then applicable.

Immediately after EPA's promulgation of applicable standards or limitations, a draft permit incorporating the new requirements shall be sent to the permittee.

2. Nutrient Reopener

This permit shall be modified, or alternatively, revoked and reissued to include nutrient limitations should the Board adopt nutrient standards for the James River/Chesapeake Bay Basins, or if a future water quality regulation, statute, or water quality management plan requires nutrient control.

3. This permit presently imposes no limitation on the discharge of stormwater runoff uncontaminated by any industrial or commercial activity and not discharged through any oil/water separator or other treatment equipment or facility. However, this permit shall be modified, or alternatively, revoked and reissued to reflect future stormwater regulations.
4. Sampling for outfalls 002, 003, 004 and 005 shall be conducted within the first hour of the first day of discharge in each month in which there is a discharge. If this cannot be accomplished, the sample shall be taken as soon as possible after the discharge commences.
5. Any and all product, materials, industrial wastes, and/or other wastes resulting from the purchase, sale, mining, extraction, transport, preparation and/or storage of raw or intermediate materials, final product, by-product or wastes, shall be handled, disposed of and/or stored in such a manner so as not to permit a discharge of such product, materials, industrial wastes and/or other wastes to State waters, except as expressly authorized.

6. Operations and Maintenance Manual (O & M)

An O & M Manual shall be developed and submitted for staff approval not later than 90 days from the effective date of the permit. This O & M Manual shall include, but not be limited to descriptions of the process operations and practices necessary to prevent contamination of soil, surface waters and ground waters. Additional sections of the Manual shall specifically address stormwater collection including treatment and disposal, effluent sampling and preservation, laboratory testing, records and reporting, maintenance, safety and overall facility management. The permittee shall include, as part of the Manual, an updated physical survey detailing the entire facility and certain structures adjacent to the facility.

7. TMP (To be REVISED by Richmond)

a. Biological Monitoring

- (1) Annual toxicity tests shall be conducted on Outfall 001 using the killifish *Fundulus* and the mysid shrimp *Mysidopsis bahia*. The shrimp test shall be a 48-hour static test and the fish test shall be a 96-hour static test, both conducted in such a manner and at sufficient dilutions for calculation of a valid LC50. If any test results in an LC50 of less than 100%, then further toxicity testing or toxicity reduction may be required. Technical assistance in developing the procedures for these tests shall be provided by State Water Control Board staff; test protocol shall be approved by State Water Control Board staff prior to initiation of testing.
- (2) In conjunction with annual toxicity testing, the permittee shall collect a 24-hour composite sample from outfall 001 and conduct analyses for total recoverable aluminum, total recoverable copper, total recoverable mercury, total recoverable nickel, and total recoverable zinc using the detection limits noted in part b. (2) (b). A detection limit of 0.010 mg/l shall be used for the analysis of total recoverable aluminum.
- (3) Within one year of permit modification, a chronic seven-day life cycle toxicity test shall be conducted on outfall 001 using *Ceriodaphnia* sp. The test shall be designed to determine a "no observed effects concentration" (NOEC) for survival and reproduction. Technical assistance in developing the procedures for these tests shall be provided by State Water Control Board staff; test protocol shall be approved by State Water Control Board staff prior to initiation of testing.

b. Chemical Monitoring

- (1) The permittee shall collect 24-hour composite samples (except for volatile organics, where separate grab samples must be collected) in conjunction with the first bioassay test, and conduct chemical analysis for priority pollutant and non-priority pollutant volatile and extractable organics, priority pollutant metals, and free cyanide. The permittee shall conduct these tests using the methods and detection limits noted in parts (2) (a) and (2) (b) below.
- (2) If any bioassay results in an LC50 of less than 100% effluent or if the No Observed Effect Concentration (NOEC) is less than the Instream Waste Concentration (IWC), the permittee shall collect 24-hour composite samples from outfall 001 (except for volatile organics where separate grab samples must be collected) and conduct the following chemical analyses:
 - (a) Priority pollutant and non-priority pollutant extractable and volatile organics using EPA's gas chromatography-mass spectroscopy methods 624 and 625. The permittee shall report all priority pollutant organics present at the method detection levels established in methods 624 and 625; however, the permittee is not required to report priority pollutants present at concentrations less than 10 ug/l. Where reasonably possible, the permittee shall report all non-priority pollutant organics at concentrations of 10 ug/l or greater.

(b) Metals, Cyanide and Phenols

Detection
Limit (mg/l)

Total recoverable antimony	0.010
Total recoverable arsenic	0.010
Total recoverable beryllium	0.010
Total recoverable cadmium	0.001
Dissolved hexavalent chromium	0.010
Dissolved chromium	0.010
Total recoverable copper	0.010
Total recoverable lead	0.010
Total recoverable mercury	0.0002
Total recoverable nickel	0.010
Total recoverable selenium	0.010
Total recoverable silver	0.0002
Total recoverable thallium	0.010
Total recoverable zinc	0.010
Total phenols	0.010
Free cyanide	0.005

- (3) If the results of this Toxics Management Program indicate that the wastewaters are discharged in toxic amounts or contain bioaccumulative pollutants, the permittee shall submit a toxicity control plan and an accompanying implementation schedule within 90 days of the notification of such a determination by the State Water Control Board. This plan shall be to evaluate effluent toxicity and assure that no toxic substances are released into State waters in concentrations that will affect survival, growth, or reproduction of any species which would reasonably inhabit those waters.

The control plan shall include appropriate measures, both immediate and long range, such as additional waste treatment or changes in the operation of the facility to reduce the toxicity of the wastewater discharge to acceptable levels. Upon completion of the review of the plan, the permit may be modified or alternatively revoked and reissued in order to reflect appropriate permit conditions and a compliance schedule.

- d. All data for this toxics program shall be reported as soon as possible, but no later than with the Discharge Monitoring Report (DMR) ending the quarter in which the data were received.

VPDES PERMIT PROGRAM

Facility Pier 14 Terminal Permit No. VA0054142

CHRONOLOGY OF EVENTS (Meetings, telephone calls, letters, memos, hearings, etc. affecting permit from application to issuance)

[illegible]