



SUMMARY

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- Terminal Emergency Services
- Oil Spill Response
- Terminal Facility Security



St. Croix, U.S.V.I





LIMETREE BAY TERMINALS ASSETS

Terminal Over 200 Storage Tanks

10 Petroleum Loading Docks (draft 35' – 55')

1 Dry Cargo Loading Dock

1 Truck Loading Rack



9 Boilers (idled)

1 Wastewater Treatment Plant (in service)

1 Reverse Osmosis Unit (in service)

4 Desalinization Units (idled)

Refinery All refining units and equipment (idled)

4 Crude Units

3 Vacuum Units

1 Catalytic Cracker Unit

1 Delayed Coker Unit

3 Platformer Units

7 Desulfurizer Units











Assets

LIMETREE BAY TERMINALS ASSETS

Fire Fighting

3 Fire Trucks – 5,000 gpm

1 Gun Platforms – 8000 gpm

Rescue Vehicle

Ambulance

Hazmat Trailer

4 Support Vehicles

3 Foam Tankers

2 Water Tankers

3 6500 gpm Sea Water Pumps

5 Tugs with Fire fighting capabilities and foam



OSRO

Located at the facility

Trained and certified personnel on call 24/7
Sea-going oil recovery vessels and barges

Oil containment booms that can be deployed

in Limetree Bay



Wildlife

Full Stock 40 Ft Wildlife Response Trailer



TERMINAL TANKAGE SUMMARY

Description	No. of Tanks	Capacity MBBLS
Crude	13	8,213
Products		
LPG	9	92
Gasoline	17	2,110
Distillates	19	3,608
Residuals	<u>16</u>	<u>6,034</u>
Total Product	61	11,844
Total Crude & Product	<u>74</u>	<u>20,057</u>



TERMINAL TANKS AND DOCKS

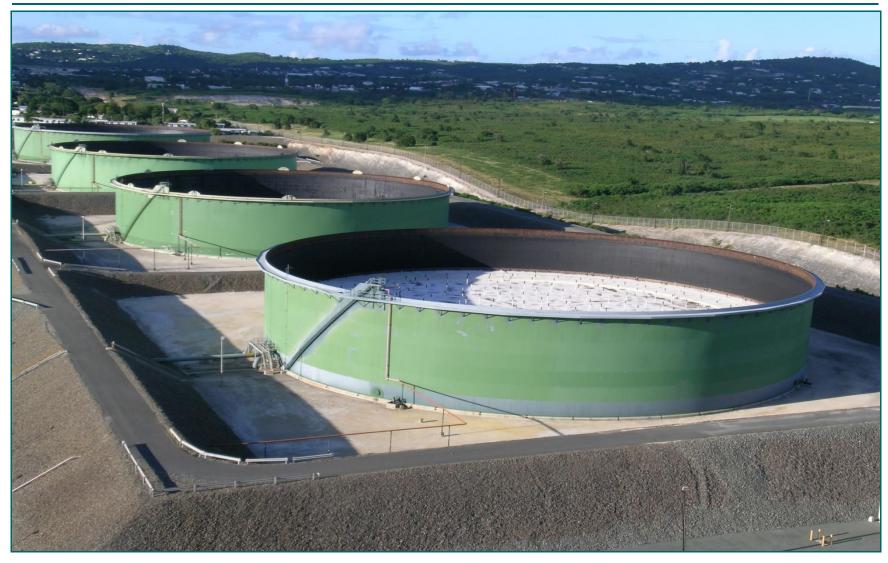
TERMINAL TANKS				
Number of Tanks	Service	Capacity MBBLS		
13	Crude	8,213		
61	Product	<u>11,844</u>		
74	TOTAL	20,057		

DOCK SERVICE			
No.	Service	Draft	
2	Crude (VLCC)	55'	
1	Product	45'	
2	Product	43'	
2	Product	35'	
<u>1</u>	Dry Cargo (RoRo)	17'	
8	TOTAL		





CRUDE STORAGE TANKS







FINISHED PRODUCT STORAGE





Capacity: 11.8 Million Barrels

TERMINAL OPERATING TANKAGE AND PIPING







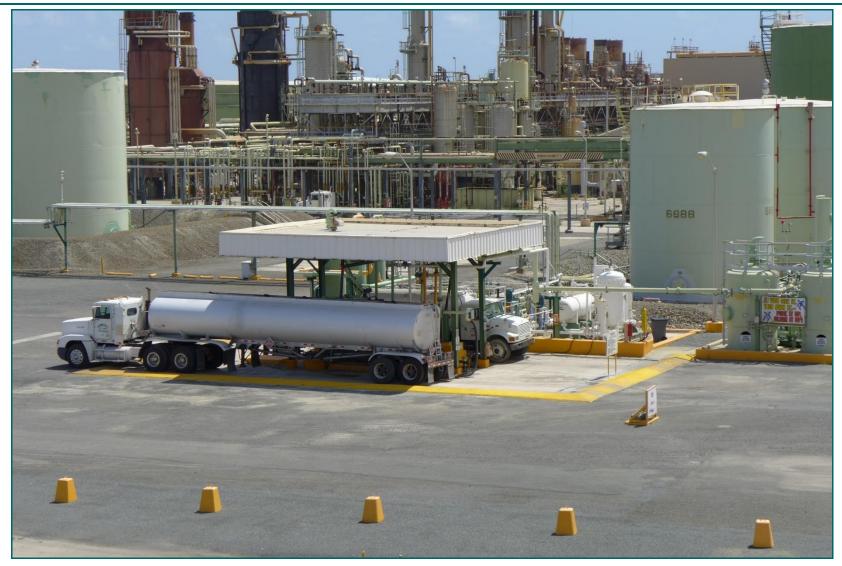
PROPANE / BUTANE STORAGE SPHERES





Capacity: 92,000 Barrels

TERMINAL TRUCK LOADING RACK



Gasoline, Jet Fuel, Ultra Low Sulfur Diesel & Propane



PORT OPERATIONS





Limetree Bay Channel

PORT OPERATIONS



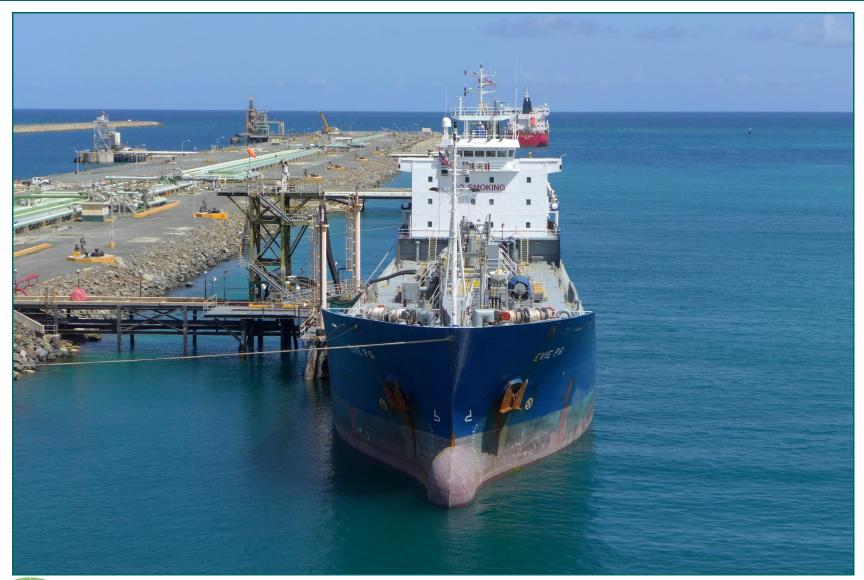


CRUDE VESSEL AT BERTH DWT: 300,800





FINISHED PRODUCT VESSEL DWT: 9,990



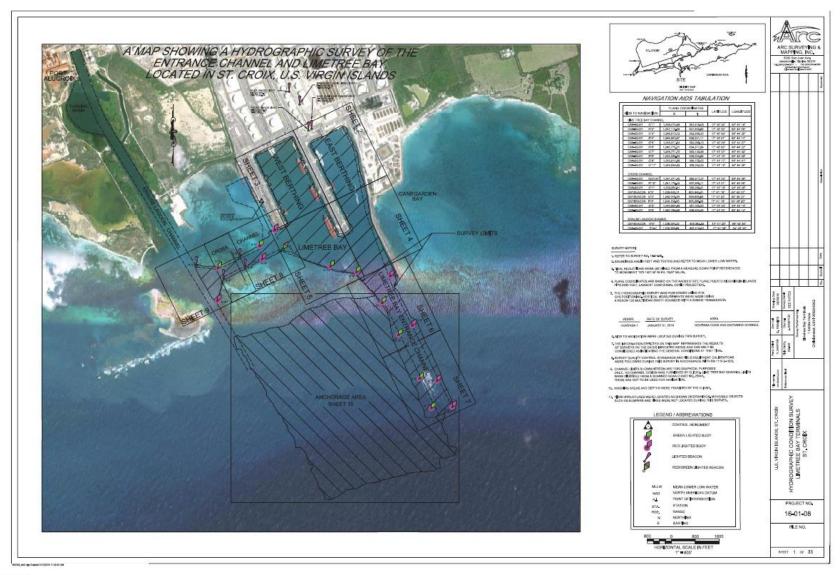


TERMINAL FACILITY





HYDROGRAPHIC SURVEY - 2016





REGULATORY COMPLIANCE

EPA / VI DPNR Requirements

- Clean Air Act: Air Emissions Control / Permitting / Title V Fees
- Clean Water Act: Wastewater Treatment / TPDES Program
- Safe Drinking Water Act
- Resource Conservation and Recovery Act: Solid Waste Management, Underground storage Tanks
- Product Release Prevention Program : Equipment Inspections / Testing / Repair

Coast Guard Requirements

- Oil Spill Response Readiness / Integrated Contingency Plan / Drill Deployment & Table Top Exercises
- Vessel & Equipment Inspections / Testing / Repair
- Harbor Hydrographic Survey Completed in 2016

Department of Homeland Security Requirements

- Modified Facility Access Control
- Enhanced Perimeter Security System
- TWIC Procedures

OSHA Requirements

- Training / Procedures
- Incident Management & Emergency Response Teams / Training
- Equipment Inspections / Testing / Repair
- Hazard Communication
- Work Permits / Confined-Space Entry Permits / Lockout / Tagout
- Personal Protective Equipment (PPE)
- Process Safety Management (PSM) / Management of Change (MOC) Process



WASTE WATER TREATMENT





Treatment:

- Physical oil and water separation
- Biological in above ground tanks
- All wastewater (recovered ground water, roof drains, tank cleaning, line flushing, maintenance activities, and ship ballast) and stormwater are treated before reuse or discharge into the TPDES permitted outfall

Monitoring:

- Analyzed for 12 different parameters
- Performance significantly below permit limits Currently using less than 1% on most constituents.
- 6 stormwater Outfalls sampled monthly when sufficient flow
- First Annual WET test for Limetree Bay Terminals completed and passed in May 2017

Operates under DPNR issued TPDES Permit transferred to Limetree Bay Terminals on April 1, 2016



AIR COMPLIANCE



Leak Detection and Repair (LDAR) Program

 Monitoring, inspecting and repairing process piping equipment leaks (valves, flanges, pump seals) throughout Terminal.

Benzene NESHAPs

 Monitoring, inspecting and repairing wastewater equipment leaks throughout Terminal.

Title V Permit:

PRI Consent Decree:

Enhanced LDAR and BWON

VRU CEM

 Truck Loading Rack Control and Continuous Emissions Monitor





TERMINAL EMERGENCY SERVICES

Fire Fighting Equipment

- 3 Fire Trucks 5,000 gpm
- 1 Gun Platforms 8000 gpm
- Rescue Vehicle
- Ambulance
- Hazmat Trailer
- 4 Support Vehicles
- 3 Foam Tankers
- 2 Water Tankers
- 3 6500 gpm Sea Water Pumps
- 5 Tugs with Fire fighting capabilities and foam







TERMINAL EMERGENCY SERVICES

Terminal Emergency Response

- 30 members train once per week
- HAZWOPER Operations certified
- Officers training
 - Marine Firefighting
 - ProBoard 1081 Interior/Exterior
 - Emergency First Response Instructor Level
 - FEMA 100,200

HazMat Response

- 20 members certified at Responder Level
- All members CPR/FA certified









TERMINAL EMERGENCY SERVICES



Terminal Incident Management Team

- Terminal IMT members have certification, training and experience with incident management
- Terminal, QI, IC, Planning, and Operations Section Chiefs certified in position-specific training
- Primary ICP located at the Limetree Bay Terminals, LLC Marine / Terminal Building



OIL SPILL RESPONSE

The Limetree Bay Terminals has an integrated oil spill response prevention and recovery cleanup plan in compliance with the Oil Pollution Act of 1990 (OPA-90). As a part of that plan, Limetree Bay Terminals has trained Emergency Response and Incident Command personnel and maintains an inventory of oil spill containment boom, oil absorbent material, vacuum trucks, oil spill response vessels, oil spill skimmers, oil spill recovery pumps and oil spill containment barges. This equipment and personnel is available 24/7 and can be deployed as required by Limetree Bay Terminals and the National Response Corporation (NRC).



OIL SPILL RESPONSE ORGANIZATION (OSRO)

- Located at Limetree Bay Terminals Facility
- 24 / 7 Readiness
- Oil recovery equipment
- Oil containment booms
- Sea-going recovery vessels
- Sea-going oil recovery barges
- Trained and certified personnel on-watch
- Ability to deploy equipment within Limetree Bay



PRE-POSITIONED OIL SPILL BOOM CONTAINERS

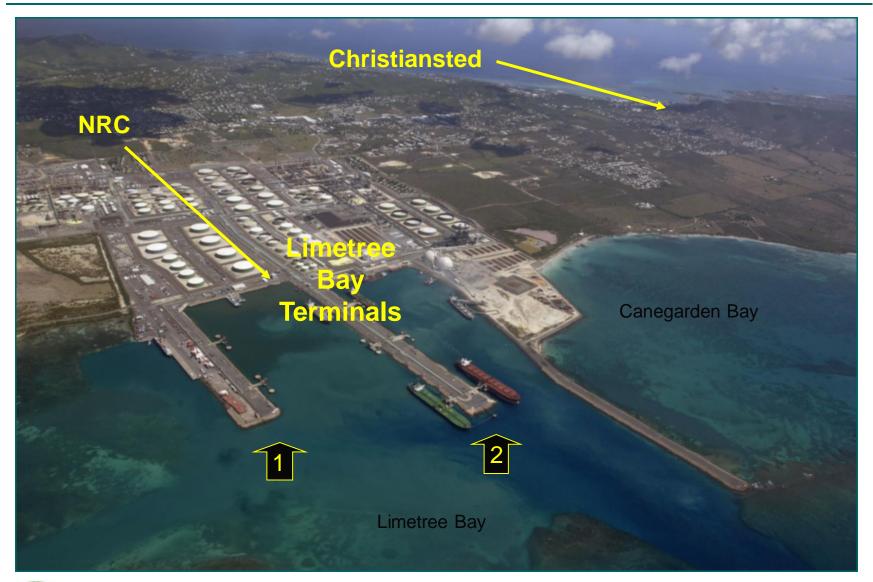




Containers hold 2,000 feet of oil spill boom

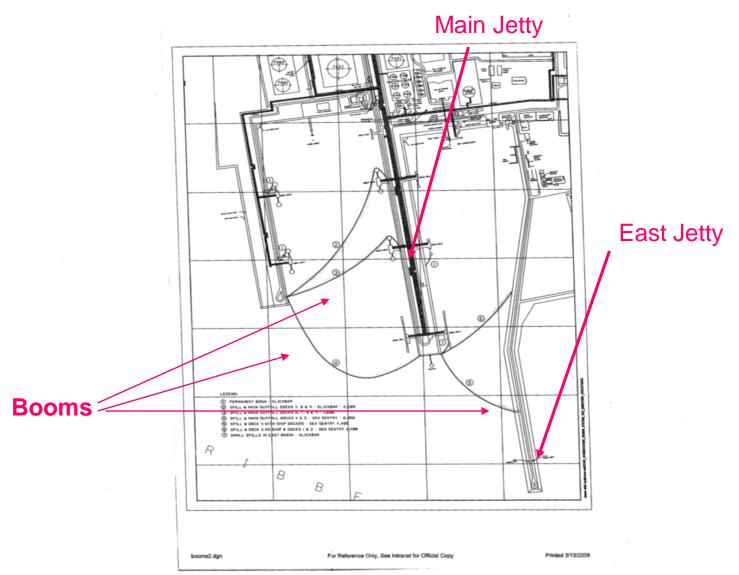


PRE-POSITIONED OIL SPILL BOOM CONTAINERS



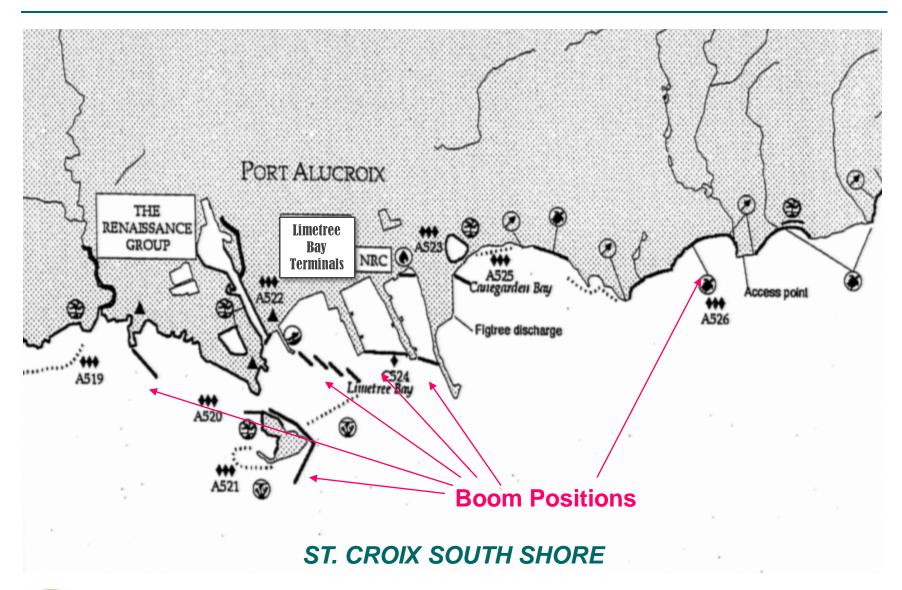


LIMETREE BAY BOOMING STRATEGY



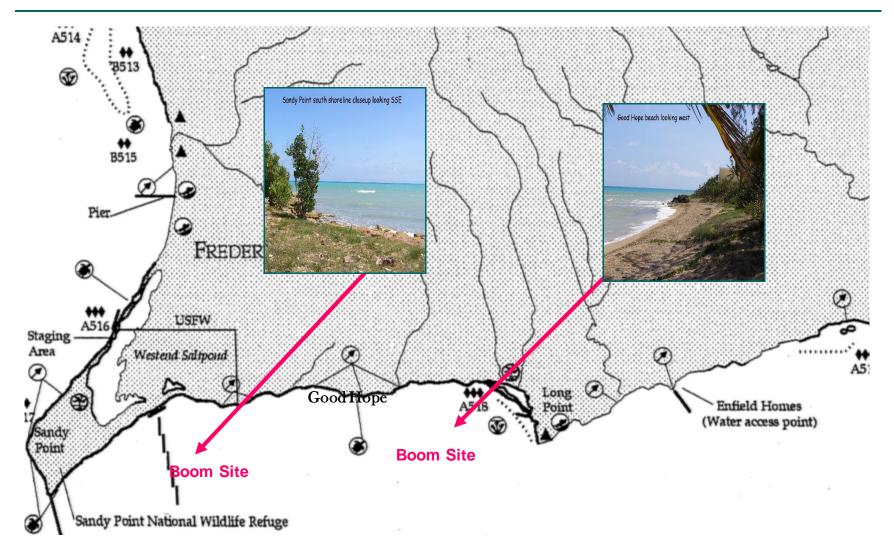


PROXIMITY BOOMING STRATEGIES





SPILL BOOM DEPLOYMENT SITES



SW COAST OF ST.CROIX



OIL SPILL BOOM STORED AT LIMETREE BAY TERMINALS

Ocean Boom Stored on Limetree Property

Limetree Bay Terminals

Dock 3	2,000 2	4" Containment Boom
Trailer 1	2,000 2	4" Containment Boom
Trailer 2	2,000 2	4" Containment Boom
Trailer 3	2,000 2	4" Containment Boom
Trailer 4	2,000 2	4" Containment Boom
Trailer 5	2,000 2	4" Containment Boom
Trailer 6	2,000 2	4" Containment Boom
	14,000	

NRC 2.000 42" Inflatable Ocean Boom on OSRV SENTRY

1,000 42" Inflatable Ocean Boom in compound box

2,000,42" Inflatable Ocean Boom on 2 boom reels near Dock 8

5,000

1.600 24" Containment Boom Stored in container at Dock 4 4 000 24" Containment Boom. Stored in container at Dock 9. 3.500 24" Containment Boom Stored in blue trailer at Dock 9

2,000 24" Containment Boom Stored in open Trailer on west side

2 000 24" Containment Boom Stored in container on west side. 1,800 24" Containment Boom Stored in mobile Response Trailer

800 24" Containment Boom Stored on two Quick Response Trailers

15,700

5,000 42" Inflatable Ocean Boom Total

29,700 24" Containment Boom

Values shown in feet









OIL SPILL RESPONSE EQUIPMENT





NRC OIL SPILL RESPONSE VESSELS & CONTAINMENT BARGE



"NRC PERSEVERANCE" AND
"NRC SENTRY



"NRC ENDURANCE BARGE"
24,000 BBLS CAPACITY



VACUUM TRUCK FLEET (5)



Capacity: 3,500 Gallons



TERMINAL SECURITY DEPARTMENT

Administrative Services	Field Services	<u>Compliance</u>
Personnel CredentialingLock and KeysCommand Center: 1	Fixed Post: 2Roving Patrols: 1Investigations / Public Safety	 Facility Security Officer/Plan Marine Unit Training TWIC (Entire Facility)







TERMINAL SECURITY DEPARTMENT

Agency Partners & Key Stakeholders

- U.S. Coast Guard
- Department of Homeland Security
- Customs and Border Protection
- Immigration and Customs Enforcement
- Federal Bureau of Investigation
- Virgin Islands Police Department

- Transportation Security Administration
- Port Authority Police Department
- Department of Planning and Natural Resources Police
- U.S. Marshals Service
- VI Attorney Generals Office of Special Investigations
- Department of Defense





QUESTIONS?



