### A National Conversation on the State of US Ports



### Advancing Solutions to Support More Sustainable Ports

Tuesday, March 4, 2014



# Webinar Agenda

- Webinar Format and Housekeeping
- Welcome & Opening Remarks
- Building a Toolkit for Sustainable Ports: A Case Study Approach to Evaluating Existing Tools
- Open Floor/Questions and Answers
- Concluding Remarks





#### <u>Welcome & Opening Remarks:</u> Dennis McLerran

Regional Administrator U.S. Environmental Protection Agency Region 10





#### Heather L. Wood, Vice President Government Affairs Virginia Port Authority





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### **Building a Toolkit for Sustainable Ports**

Advancing Solutions to Support More Sustainable Ports

### Heather Wood

Vice President , Government Affairs Virginia Port Authority



### 2011 Comprehensive Air Emissions Inventory Update

The Port of Virginia has long implemented programs and initiatives at its terminals that seek to lower emissions and improve air quality





- To monitor and document emissions contribution of port activities to the overall Hampton Roads Ozone Attainment / Maintenance Area
- To forecast future air emissions based on cargo growth projections (2012, 2015, 2018, 2021)
- To identify mitigation strategies for further study

Figure 2-1: Hampton Roads Ozone Attainment/Maintenance Area (Shown in Green)



- Analysis of VPA terminals
- Pollutants from each source within terminals
  - Ocean-going vessels (OGV), by type
  - Ship assist tugs known as harbor craft (HC)
  - Cargo handling equipment (CHE)
  - Rail locomotives (RL)
  - On-road heavy duty vehicles (HDV)
- Emission levels of pollutants in each source
  - Carbon Monoxide, Carbon Dioxide Equivalent, GHG, Oxides of Nitrogen, Hydrocarbons, Sulfur Dioxide, Particulate Matter 10, Particulate Matter 2.5



- Consistent with EPA best practices for mobile sources
- Emissions levels calculated using integrated terminal capacity model to assess activity and operational efficiency levels based on VPA cargo throughput
- The model uses MOVES 2010b
  - EPA's new emissions analysis software
  - Also uses actual engine specifications, fuel type, operating hours for each mode, and time in operational element.



- Calculate baseline activity levels, future activity levels and resulting emissions by source
- Use latest vessel & equipment type operational data
  - Engine specifications
  - Ship call & truck trip data
  - Time in mode calculations (idle, maneuvering, hoteling, etc.)
  - Hours of operation
  - Truck path data
  - Load factors
  - Emission factors



- Reduced emissions of <u>all pollutants in all modes</u>, with increased cargo, since 2008
  - NO<sub>X</sub> = -26%
  - HC: -20%
  - PM 2.5 & 10 = -56%
  - SO<sub>2</sub> = -59%
  - CO = -38%
  - CO<sub>2</sub> = -18%
- Due to:
  - Newer, cleaner engines
  - Policies to upgrade engines & exhaust systems
  - Policies requiring low sulfur fuels
  - Reduced truck trips due to APMT on-dock rail
  - Updated EPA software for over-the-road vehicles



### **Forecasts**

- Used cargo growth forecast of 2040 Master Plan
  - APMT & NIT: 5% 7% annual container growth
  - NNMT: steady container growth
  - PMT: excluded
- Forecasted <u>reductions of all pollutants in all modes</u> through 2021:
  - NO<sub>x</sub> = -24%
  - HC = -27%
  - PM 2.5 & 10 = -61%
  - SO<sub>2</sub> = -92%
  - CO = -34%
  - CO<sub>2</sub> = -9.3%



### Forecasted reductions due to:

- Wider and earlier adoption of low sulfur fuels
- Fleet turn-over to cleaner engines
- Increasing ship loading and discharge rates
- Greater use of hybrid & electric equipment
- Funding of Capture Fleet Engine Replacement
- Higher use of Rail & Barge Operations.
- Coordinated port / operator data collection
  - Gate Automation / Appointment Systems
  - Container Stack Automation





- James River Barge Line
- Maersk Low Sulfur Fuel Use
- Port of Virginia Green Operator (GO) Program
- Straddle Carrier vs. RMG Terminal Operations
- Ocean Going Vessel Baltimore Transit
- Locomotive Replacement







### **Thank You**





#### Elena Craft, Phd, Health Scientist Environmental Defense Fund



### National Conversation on Ports with Port Stakeholders

#### Advancing Solutions to Support More Sustainable Ports

#### **Elena Craft, PhD** Health Scientist March 4, 2014



Finding the ways that work

## Port growth in the US

 Ports in the US collectively handle more than 40 million TEUs per year



Data Source: Port Authority of Hamburg

Containership traffic in the US

## **Record Setting Growth**

Customer

Care

About

The Port

0

Business

Operations

**BIGGEST EXPANSION EVER** 

#### Full Speed Ahead

PortMiami, the Cruise Capital of the World, is poised for new growth as it welcomes an impressive roster of new cruise lines and brand new vessels to its fleet – <u>Regent Seven Seas</u> <u>Cruises</u>' Regent Navigator and the Regent Mariner <u>Carnival Cruise Lines</u>' newbuild Breeze; <u>Oceania Cruises</u>' newbuild ship, Oceania Riviera; <u>Celebrity Cruises</u>' newbuild ship, *Celebrity Reflection*; and <u>Disney Cruise</u> <u>Line's Disney Wonder</u>.

PORTMAM

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» PortMiami Wins World Travel Award

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#### and the Regent <u>as'</u> newbuild Carnival ewbuild ship,

Cruise

& Travel



Cargo

& Trade

Online

Services

### A New Chapter in the Evolving NY/NJ Waterfront



Live Photo - Click To Zoom



Fly Over Animation

## Panama Canal



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## **Freight Emissions Growing Domestically**



#### Counties With Monitors Violating Primary 8-hour Ground-level Ozone Standards 0.060 - 0.070 parts per million

(Based on 2006 - 2008 Air Quality Data)

EPA will not designate areas as nonattainment on these data, but likely on 2008 - 2010 data which are expected to show improved air quality.



#### Notes:

1. No monitored counties outside the continental U.S. violate.

2. EPA is proposing to determine compliance with a revised primary ozone standard by rounding the 3-year average to three decimal places.

# Absolute Improvement in PM2.5 concentrations by 2020 due to emission control areas



### **Cleaning-up Hot Spots: Port Initiatives**





Ships

#### Tugs



#### **Trucks**

### Rail



### Cargo handling equipment



### **Comparison of drayage truck standards adopted at US Ports**

Model Year	LA/LB	CARB	SEA/TAC	OAKLAND	NY/NJ	HOUSTON
ADOPTED	NOV 2007	DEC 2008	APRIL 2009	JUNE 2009	MAR 2010	JAN 2011
PRE-1994	BANNED JAN 2010	BANNED JAN 2010	BANNED JAN 2011	BANNED JAN 2010	BANNED JAN 2011	10% REDUCTION BY 2014
1994-2003	RETROFIT BY JAN 2010 BANNED JAN 2012	RETROFIT BY JAN 2010 BANNED JAN 2014	BANNED JAN 2018	RETROFIT BY JAN 2010 BANNED JAN 2014	BANNED JAN 2017	-
2004-2006	BANNED JAN 2012	RETROFIT BY JAN 2012 BANNED JAN 2014	BANNED JAN 2018	RETROFIT BY JAN 2012 BANNED JAN 2014	BANNED JAN 2017	-
2007+	REQUIRED JAN 2012	REQUIRED JAN 2014	REQUIRED JAN 2018	REQUIRED JAN 2014	REQUIRED JAN 2017	RECCOMEN- DED BY 2021





NEWS RELEASE

#### FOR IMMEDIATE RELEASE

EDF Contact: Mica Odom, (512) 691-3451 or modom@edf.org CRT Contact: James Jack, (916) 813-0839 or execdir@responsibletrans.org

#### Groups Launch National EPA SmartWay Drayage Program

Public-Private Partnership to Reduce Diesel Truck Emissions at U.S. Ports

June 28, 2011 (Charleston, SC) - The Coalition for Responsible Transportation (CRT), Environmental Defense Fund (EDF), and U.S. Environmental Protection Agency (EPA) today announced the launch of the EPA SmartWay Drayage Program, a new goods movement initiative designed to clean up the air in and around our nation's ports. The announcement came at a press conference held earlier today at the Port of Charleston, S.C..



### **REQUEST FOR PROPOSAL (RFP)**

#### **ENVIRONMENTAL RECOGNITION PROGRAM FOR PORTS**

ENVIRONMENTAL DEFENSE FUND 301 CONGRESS AVE SUITE 1300 AUSTIN, TX 78701

PROPOSALS DUE: AUGUST 2, 2013

## Identify Environmental Performance Metrics

- Potential environmental performance metrics
  - Metrics: quantitative and/or qualitative
  - Based on the program review and the results of stakeholder outreach
- No one-size-fits-all
  - Ownership structure
  - Geographical distribution
  - Variation in ship traffic
- Stakeholder engagement

## **Framework and Administration**

### • Establish effective framework

- Criteria that will form the basis for recommendations for recognition levels
- Draft guidelines for implementation of green programs in ports
- Recommendations for branding/ recognition for the program, promotion and marketing
- Administration
  - Identify potential administrators for the recognition program.
  - Identify strategies for program implementation based on strengths of potential administrators.

## **Next Steps**

- Final Report of Program Recommendations
- EPA's National Port Stakeholders Summit
- Engage Stakeholders on Effort
- Work with EPA and other stakeholders on Recognition Program



### Elena Craft, PhD ecraft@edf.org 512-691-3452



#### Rose Siengsubcharti, Program Manager San Pedro Bay Port's Clean Air Action Plan (CAAP) Technology Advancement Program (TAP) Port of Long Beach



## **Technology Advancement Program**

#### Rose Siengsubcharti

Environmental Specialist EPA Port Stakeholder Webinar March 2014



### The San Pedro Bay Ports



#### Port of LONG BEACH

### 2012 POLB/POLA NOx and DPM Emissions



#### Port of LONG BEACH

### **Community Health**







#### Port of LONG BEACH
#### **Clean Air Action Plan**





Green Port



#### Technology Advancement Program (TAP)











# **TAP Objectives**

- Encourage technology innovation
- Show that the technology works
- Get the technology verified and approved for sale in the marketplace
- Improve emissions reductions
- Reach our stated goals and strive for an emissionsfree port

#### **TAP Implementation**

# Budget

- Unsolicited Proposals
  - Proposal Evaluation
  - **Match Requirement**
- Partnership with Port Terminal Operator, Shipping Lines, Licensed Motor Carrier, Harbor Craft Company
- Technology Verification or Certification

#### TAP Advisory Committee









**California Environmental Protection Agency** 

Air Resources Board

#### **Emission Control Technologies**

DEMONSTRATION PROJECT	SOURCE CATEGORY	TOTAL PROJECT COST	TAP FUNDING	AGENCY FUNDING
SEAWATER SCRUBBER	SHIPS	\$3,390,000.00	\$1,650,000.00	NA
FUEL SLIDE VALVE	SHIPS	\$1,300,000.00	\$45,000.00	\$783,628.00
DIESEL PARTICULATE FILTER	TRAINS	\$692,356.00	\$150,000.00	\$346,178.00
SOCK ON A STACK	SHIPS	\$603,211.00	\$299,054.00	\$55,000.00
DIESEL PARTICULATE FILTER	HARBOR CRAFT	\$531,308.00	\$265,654.00	NA
DIESEL PARTICULATE FILTER	CARGO HANDLING EQUIPMENT (CRANE)	\$322,140.00	\$64,668.42	NA
FUEL SLIDE VALVE (FOLLOW-UP)	SHIPS	PORTS PROJECT	\$216,000.00	NA
			Port of <b>LC</b>	NG BEACH

#### **Alternative Engine and Fuel Technologies**

DEMONSTRATION PROJECT	SOURCE CATEGORY	SOURCE CATEGORY		AGENCY FUNDING
LNG ENGINE CERTIFICATION	TRUCKS	\$9,894,027.00	\$500,000.00	\$1,750,000.00
LNG YARD TRACTOR	CARGO HANDLING EQUIPMENT (YARD TRACTOR)	\$425,000.00	\$350,000.00	\$75,000.00
CNG TRUCK	TRUCKS	IN-KIND	\$223,155.00	\$421,250.00
EMULSIFIED BIODIESEL FUEL	CARGO HANDLING EQIUPMENT (TOP HANDLERS)	\$132,000.00	\$88,000.00	NA

## Hybrid Technologies

DEMONSTRATION PROJECT	SOURCE CATEGORY	TOTAL PROJECT COST	TAP FUNDING	AGENCY FUNDING	
HYBRID TUGBOAT	HARBOR CRAFT	\$8,000,000.00	\$1,389,920	NA	
HYBRID YARD TRACTOR	CARGO HANDLING EQUIPMENT (YARD TRACTOR)	\$1,200,00.00	\$600,00.00	\$300,000.00	
HYBRID CRANE	CARGO HANDLING EQUIPMENT (RTG CRANE)	\$169,870.00	\$84,935.00	\$130,130.00	
PLUG-IN HYBRID YARD TRACTOR	CARGO HANDLING EQUIPMENT (YARD TRACTOR)	IN-KIND	\$61,500	NA	
ENERGY STORAGE	CARGO HANDLING EQUIPMENT (RTG CRANE)	PORTS PROJECT	\$23,000.00	\$8,000.00	
HYBRID YARD TRACTOR (FOLLOW-UP)	CARGO HANDLING EQUIPMENT (YARD TRACTOR)	PORTS PROJECT	\$26,000.00	NA	

#### Zero Emission Technologies

DEMONSTRATION PROJECT	SOURCE CATEGORY	TOTAL PROJECT COST	TAP FUNDING	AGENCY FUNDING
ALL-ELECTRIC YARD TRACTOR	CARGO HANDLING EQUIPMENT	PORT PROJECT	\$263,500.00	\$263,500.00
(LEAD ACID BATTERIES)	(YARD TRACTOR)			
ALL-ELECTRIC YARD TRACTOR	CARGO HANDLING EQUIPMENT	\$940,000.00	\$400,000.00	NA
(LITHIUM ION BATTERIES	(YARD TRACTOR)			
ALL-ELECTRIC ON-ROAD TRUCKS (NEW)	TRUCKS	\$4,429,421.00	\$300,000.00	\$3,488,801.00
			Port of <b>LC</b>	NG BEACH

#### **Updates on Port Technologies**

- Foss Maritime's Hybrid Tug Retrofit Project
- EPA DERA Funded Technologies
- Port Shorepower Progress
- Port At-Berth Technologies

# Looking Ahead

- Seek zero emission technologies
- Focus technology projects on ship applications
- Monitor for federal and state grant opportunities
- Partner with air agencies on projects

# **TAP Annual Reports**



For more information on current and past technology projects, access the following link:

Port of LONG BEACH

http://www.cleanairactionplan.org/programs/tap/techdemos.asp

#### **Ports Technologies Contacts**

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Beth Carper Air Resources Specialist Puget Sound Clean Air Agency Stephanie Jones-Stebbins, Director Seaport Environmental and Planning Programs Port of Seattle









#### Strategic Plans for Sustainable Ports: The Northwest Ports Clean Air Strategy Experience

Port of Seattle

Stephanie Jones Stebbins, Port of Seattle

Beth Carper, Puget Sound Clean Air Agency



- Background: Initial Strategy and 2013 update
- Emission-reduction goals and performance measures
- Performance targets, by sector and lessons learned
- The big picture lessons learned



# Northwest Ports Clean Air Strategy: What is it?

- Three-port, international collaboration focused on reducing diesel particulate matter and greenhouse gases
- Sets clear, measurable short-term and long-term targets for:
  - Ocean-going vessels (OGV)
  - Harbor vessels
  - Rail
  - Cargo handling equipment (CHE)
  - Trucks
  - Port administration
- Pilot Projects
- http://bit.ly/NWPortStudy2013



#### **Strategy Partners**

- Port of Seattle
- Port of Tacoma
- Port Metro Vancouver (BC)
- US Environmental Protection Agency
- Washington State Department of Ecology
- Puget Sound Clean Air Agency
- Environment Canada
- Metro Vancouver, BC



#### Strategy's Geographic Reach





#### Summary of Approach

- 2005 Emissions Inventory measuring maritime air quality & sources
- 2008 NW Ports Clean Air Strategy
- 2010 and 2011 Emission Inventory Updates
- 2013 Northwest Ports Clean Air Strategy Update



#### Port of Seattle Airshed's 2005–2011 Emission Reductions (Similar Results for POT)





## Port-Related DPM and GHG Emissions by Sector, from the Three Ports, 2010/2011





# Northwest Ports Clean Air Strategy: 2013 Update

- The 2013 Strategy update reflects results of the 2011 Emissions Inventory
- Set DPM and GHG goals
- Established actions and performance targets by sector for 2015 and 2020
- Proposed pilot studies and demonstration projects
- Encouraged 3<sup>rd</sup>-party certification programs



# 2013 Strategy Update's Emission-Reduction Goals (from 2005 Baseline)

Targeted Emissions	2015 Goals	2020 Goals	Measurement
Diesel particulate matter	75% reduction	80% reduction	Emissions per ton of cargo
Greenhouse gases	10% reduction	15% reduction	Emissions per ton of cargo



#### **Performance Measurement**

#### Annually:

 Publish a progress report on status of meeting actions & targets

#### Every 5 years:

Conduct an emissions inventory to track status of meeting emission reduction goals



#### **Targets for Ocean-Going Vessels**

			Redu	uces	
Actions	2015 largets	2020 largets	DPM	GHG	
Vessels surpass Emission Control Area (ECA) requirements	Early compliance with 2015 ECA 0.1% fuel-sulfur level (or equivalent) while hoteling before Jan 1, 2015	Ports track number of vessels improvements (Tier 3 marine engines, cleaner fuel, shorepower, & other emission-reduction technologies)	✓	✓	
Ports & carriers join port-designed or 3rd-party certification programs promoting continuous improvement	Ports and 10% of vessel calls	Ports and 40% of vessel calls	✓	✓	



#### Lessons Learned: OGV

- Largest contributor to airshed
- ECA will provide significant reductions
- POS's At-Berth Clean Fuels program incentivizes lower-sulfur fuel before ECA mandates



 LNG and Shore-power have potential reductions in DPM emissions but are more complex and expensive projects



#### **Targets for Harbor Vessels**

Actions	2015 Targets	2020 Targets	Reduces	
Actions			DPM	GHG
Strategy Partners (S.P) conduct annual outreach to port-related harbor vessel companies & recognize best practices and engine upgrades	S.P. conduct outreach & 50% of harbor vessel companies report best practices and engine upgrades	S.P. conduct outreach & 90% of harbor vessel companies report best practices and engine upgrades	V	✓
Ports & harbor vessels join port-designed or 3 <sup>rd</sup> -party certification programs that promote continuous improvement	Ports and 10% of harbor vessels	Ports and 40% of harbor vessels	√	✓



#### Lessons Learned: Harbor Vessels

- Engine replacements
  - Most common and successful projects
  - Expensive
  - Require grants unless existing engine fails
- Most vessel owners are not used to grant restrictions
  - Competitive bid process
  - Scrapping old engines
- Require strict oversight to meet grant deadlines





#### **Targets for Locomotives**

Actions	201E Targata	2020 Targota	Red	uces
ACTIONS		2020 Targets	DPM	GHG
Switcher locomotive owners/operators participate in a fuel- efficiency program	<b>100% owners/operators</b> institute a program	<b>100% owners/operators</b> achieve performance objectives of chosen program	✓	✓
Switcher locomotive operators upgrade or replace unregulated engines (engine replacements Tier2 or better)	10% of unregulated locomotive engines	20% of unregulated locomotive engines	✓	✓



#### Lessons Learned: Locomotives

#### • Engine replacements

- Like harbor vessels, most successful projects and most expensive.
- Stronger resistance to projects, with or without grants



- Anti-idling technology for locomotives:
  - Installed on most locomotives in our region (on new engines or as retrofits)
  - Some grants covered 50 to 100% of initial costs
  - Incredible fuel savings—rail companies miss out if they don't invest in it



# Targets for Cargo-Handling Equipment

Actions	2015 Targots	2020 Targots	Reduces	
ACTIONS			DPM	GHG
<b>CHE meets Tier 4 interim</b> (T4i) emission standards or equivalent	50% of equipment	80% of equipment	✓	✓
Ports & terminals have fuel-efficiency plans in place that promote continuous improvement	Ports and 50% of terminals	Ports and 100% of terminals	✓	✓



# Lessons Learned: Cargo-Handling Equipment

- DPF retrofits
  - Pre- and post-installation training improves chance of success
  - Require significant follow up support
  - Work well <u>if terminal is invested in proactively</u> <u>maintaining their equipment</u>
- Idle-reduction retrofits
  - If programmed correctly, provide fuel savings and warm starts with fewer emissions
  - Co-benefits include: better battery life and fewer maintenance issues





#### Targets for Trucks

Actions	2015 Targets 202	2020 Targets	Reduces		
Actions			DPM	GHG	
Trucks meet or surpass EPA emission standards for model year 2007	100% of trucks by the end of 2017			✓	
<b>Ports, terminals, and trucks</b> <b>have fuel-efficiency plans</b> in place that promote continuous improvement	Ports	Ports, terminals, and 50% of trucks	✓	✓	



#### Lessons Learned: Trucks

- Incentivized scrap and replace programs are the best option for Pacific Northwest
  - Owner/operators don't have significant capital to buy replacements



- Programs require significant administrative resources
- Funding sources to-date have included Ports, state environmental agencies, and CMAQ; DERA also an option
- Effective retrofits are not available at the low temperatures and high horse power



#### **Targets for Port Administration**

Actions	2015 Targots	2020 Targota	Red	duces	
ACTIONS			DPM	GHG	
Ports own and operate cleaner vehicles/ equipment & have fuel-use reduction plans promoting continuous improvement	Ports report use of cleaner vehicles and equipment and other relevant information	Ports increase use of cleaner vehicles and equipment	V	✓	
<b>Ports apply clean</b> <b>construction standards</b> to engines used on port-led construction projects	Ports adopt clean construction practices for port-led projects, & enact a plan for Tier 2 engine emission reqts.	Ports continue to apply clean construct. practices for port-led projects, & enact a plan for Tier 4 engine emission reqts.	✓	✓	
Ports facilitate energy studies and conservation projects at port-owned and/or tenant facilities	Each port conducts 3 energy studies	Each port completes 3 energy conservation projects	✓	✓	
## **Pilot Projects**

- Each port will evaluate or engage in at least one pilot study or demonstration project per year
- Port currently partnering with Puget Sound Clean Air Agency on CNG-conversion pilot for dray trucks



## Lessons Learned: Overall

### • Collaboration:

- Getting three ports to agree on goals is challenging, but unifying once accomplished
- Successful collaboration lays a foundation for more ambitious goals
- International port collaboration is even more difficult due to differing regulatory structures
- Politics:
  - Sometimes the largest-emitting sector isn't the one to which the public, and thus leaders, pay the most attention
  - Incentivizing voluntary actions usually takes money; having a multiport strategy helps with grant applications and helps leaders commit funds



## **Questions?**

## Stephanie Jones Stebbins, Port of Seattle JonesStebbins.S@portseattle.org

## Beth Carper, Puget Sound Clean Air Agency <u>bethc@pscleanair.org</u>





### Reade Kidd, Director International Logistics The Home Depot



## **Q&A Participation Instructions** *By default, you are in listen-only mode (muted).*

If you would like to verbally ask a question or comment during the Q&A session, click the *raised hand button*. We will unmute your phone line and announce your name when it is your turn to speak. *\*Please make sure your phone is unmuted on your end*.

You may also submit a question by typing into the *Enter a question for staff box* and click the *Send button*. Staff will read and answer these questions as time allows.



# **Questions and Answers**

- Raise your hand to speak
- Please state your name and company/ organization
- To allow others an opportunity to speak please limit responses to 60 seconds



# Follow Up

Please join us—

#### *National Port Stakeholders Summit* Hilton Baltimore Baltimore, Maryland Tuesday, April 8, 2014

Hosted by the EPA's Office of Transportation and Air Quality, this Summit will bring together leaders from industry, government, community groups, and others with a shared interest in promoting healthy air at and around ports. The goal is to advance strategies that support more sustainable ports while encouraging economic growth.

Find out how to register for the National Summit and about EPA's Ports Initiative at: <u>www.epa.gov/otaq/ports</u>

Please contact us at <u>talkaboutports@epa.gov</u> to ask a question or to submit a comment

