# **Community Advisory Group Meeting**





June 27, 2013





- Project update
- Habitat
   reconstruction
- Community information and outreach







- 2013 Goal: 350,000 cubic yards
- Approach to dredging, processing, backfill and disposal similar to prior years
- Longer transport distances between dredging and processing location
- May November (depending on weather and river flow)
- 24/6 work schedule





- Dredging to be performed:
  - North of Thompson Island Dam (CUs 49-60)
  - From Lock 6 to Lock 5 (CUs 67-78)
- Backfill/cap material placement
  - Transitioning from
     Moreau Backfill
     Loading Area to
     new location near Lock 5
- Habitat reconstruction







## 2013 Dredge Areas









#### Phase 2 Year 3: River Operations Shoreline Support Properties





Moreau Backfill Loading Facility





Route 4 Support Property



Route 4 Crew Change Area

#### Phase 2 Year 3: River Operations Shoreline Support Properties



#### Saratoga Backfill Loading Area



## Phase 2 Year 3: River Operations

STATED STATES

- Dredging began April 29, 2013
  - 8 weeks completed (to-date)
  - 3-day suspension of river activities due to high river velocities (June 13-16)
- 4-5 dredges operating
- Dredged 165,000 cubic yards through June 22, 2013
  - 60 acres dredged
- Placing backfill in CU 49 and 5 CUs in West Griffin Island channel (CUs 50 – 54)
- Capping percentages below specified limits (4.62%)





#### Water

- No Total PCB standard level exceedances to date
  - One result > 500 ppt on
     6/11-6/12; not confirmed
- PCB Load at Stillwater and Waterford increased due to floods, but below standard; now trending downward







#### Air

- Sporadic increases in PCB levels at facility and river corridor
  - 3% of total samples collected
- Best management practices implemented
  - Move dredge operations between high- and lowconcentration areas
  - Cover higher-concentration sediments with water
  - Track, prioritize barges with higher-concentration sediments for transport, unloading and processing



# Phase 2 Year 3: Facility Operations







# Phase 2 Year 3: Facility Operations



- Consistent 24/6 operations
- More than 310 barges unloaded to date
- North and south unloading wharves fully operational
- ~2,300 filter press drops; material is finer-grained
- Unloading/processing keeping pace with dredging
  - Generally not necessary to operate facility on Sundays









- Railcar shipping began May 18, 2013
- Material currently shipped to EPA-approved disposal facilities in Ohio and Oklahoma
- 16 unit trains (each 93 rail cars carrying 106 tons each) shipped through June 24, 2013
  - ~157,000 tons of material shipped off-site
  - On-site staging piles well below project limits





# Phase 2 Dredge Areas Land-Locked Area







# Phase 2 Dredge Areas (CU 100)

<ul> <li>River Mileposts</li> </ul>
—— USA Major Roads
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- Cultural Resources
- Floodplains
- Habitat Reconstruction
- Community Information and Outreach



Spill Response Boat



# **Questions/Comments**







### Habitat Reconstruction Update



### Habitat Reconstruction Approach/Steps

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- 1. Pre- Dredge Surveys
- 2. Dredging
- 3. Backfilling rebuild habitat to similar configuration (depth)
- 4. Pre-planting backfill survey (is depth correct)
  - Adjust as needed
- 5. Initial Planting (some cases seeding)
- 6. Post planting approval
- 7. Monitoring and maintenance
  - Annual surveys
    - Coverage, density, bio-mass etc.
  - Replanting as needed
  - Remove invasive plants (compare to reference areas)
- 8. Final EPA approval (overall function consideration by reach)





### Project Habitat Reconstruction Requirements

- Habitat reconstruction and monitoring
  - Includes consultation with federal and state agencies
  - Preference for local plant materials
- Adaptive management approach
  - Includes lessons learned/allows necessary adjustments
- Ongoing monitoring to assess progress
  - Benchmarks and criteria have been established



# Habitat Reconstruction Progress to Date



	Construction Year					
Habitat	2011 (ac)	2012 (ac)	2013* (ac)	Projected Through 2013 (ac)	Project Goal (ac)	Underway(%)
SAV Planting	6.64	3.38	10.78	20.8	90	30%
SAV Nat Recolonization	3.4	1.22	1.86	6.48		
RFW	0.39	0.36	0	0.75	20	4%

\* through CU30





#### Habitat Reconstruction 2011-2013









#### Habitat Reconstruction CU3/CU4 (2011)





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- CLU LILY

SUBMERGED AQUATIC VEGETATION (SAV) 0.68 ACRES WITHIN CU

RIVERINE FRINGING WETLAND (RFW) 0 ACRES WITHIN CU

SAV NATURAL RECOLONIZATION 0.24 ACRES WITHIN CU

UNCONSOLIDATED RIVER BOTTOM (UCB) 3.95 ACRES WITHIN CU

Post-Construction 2012

### Habitat Reconstruction CU5 and CU6 (2011)





Hudson River

#### Habitat Reconstruction CU7 (RFW 2010, SAV 2011)



### Habitat Reconstruction CU8 (RFW 2010, SAV 2011)





**RFW** Post Construction 2012

SUBMERGED AQUATIC VEGETATION

RIVERINE FRINGING WETLAND

SAV NATURAL RECOLONIZATION

UNCONSOLIDATED RIVER BOTTOM

#### CU17 and CU18 Natural Recolonization Areas (2009)



#### Habitat Reconstruction CU9 (RFW and SAV 2012)



# (RFW 2012, SAV in progress)

#### Constructed 2012



2012 09 14 11:58

SUBMERGED AQUATIC VEGETATION (SAV) 1.07 ACRES WITHIN CU

-7

RIVERINE FRINGING WETLAND (RFW) 0.08 ACRES WITHIN CU

SAV NATURAL RECOLONIZATION 0.12 ACRES WITHIN CU

UNCONSOLIDATED RIVER BOTTOM (UCB) 3.47 ACRES WITHIN CU

10

Post-Construction 2013

#### SAV Habitat Reconstruction CU19





#### **RFW Post-construction 2013**



#### SAV Post-construction 2013





#### SUMMARY TABLE: Total Plants Installed To-Date by CU

CU	Submerged Aquatic Vegetation	<b>Riverine Fringing Wetland</b>
2	0 (all natural recolonization)	1,055
3	8,676	No RFW
4	1,402	No RFW
5	18,561	No RFW
6	24,299	No RFW
7	12,473	(seed mixes only)
8	3,152	1,424
9	7,680	2,780
10	959 (planned)	No SAV 2012
12-18	0 (all natural recolonization)	No RFW
19	12,680	1,789
21-23	~ <b>18,000</b> to date 2013 (~70,000 planned 2013)	No RFW
Totals	107,882	7,048

#### Habitat Reconstruction Lessons Learned



### Large-scale installation is possible

#### **RFW Construction and Planting**

- Seed mix application (timing important)
- Seeding alone may not be adequate
- Plant species diversity important
- Planting elevation in relation to water surface very important
- Areas need to remain stable until after plants establish

#### SAV Construction and Planting

- Local stock can be harvested, transplanted, and propagated locally
- 2-ft spacing and planting depths appear adequate
- Stock has to be vigorous at time of planting
- Early planting is better
- Anchoring plant in river bottom is important



# Adaptive Responses to RFW Stabilization and Protection















# Challenge – West Griffin Island Area







# Questions/Comments



### In advance of dredging

- Calls and meetings with elected officials
- GE door-to-door outreach to shoreline property owners
  - Targeted outreach re: tree trimming, water usage
- EPA letter to shoreline property owners with project details
- Local availability session for shoreline residents
- Meeting with processing facility neighbors
- Coordination with local emergency responders
- Combining dredging and floodplain outreach



#### **During dredging**

- Outreach to owners with docks and other shoreline structures
- Weekly NYS Canal Corp. Notice to Mariners
- Project fact sheet distributed by NYSCC to boaters at locks
- Project signage
- Meetings with processing facility neighbors
- Drills with local emergency responders









SOILS IN THIS AREA ARE CONTAMINATED WITH PCBs (POLYCHLORINATED BIPHENYLS) AVOID CONTACTING AND/OR DISTURBING SOILS

FOR FURTHER INFORMATION PLEASE CONTACT THE USEPA IELD OFFICE AT (518) 747-4389 OR LOG ONTO THE USEPA HUDSON RIVER PCBs WEBSITE AT http://www.epa.gov/hudson



- Outreach to owners of property near Saratoga Backfill Loading Area
- Outreach to shoreline properties in land-locked area (between Thompson Island and Fort Miller dams)





#### **Complaint Management Program**

- Concerns may be reported via phone, website or mail
  - 518-792-4087 or 1-888-596-3655
  - Info@hudsondredging.com
  - P.O. Box 295, Fort Edward, NY 12828
- When a complaint is recorded:
  - GE initiates investigation and notifies EPA
  - If quality-of-life concern, monitoring is conducted at complainant's location
- EPA and GE discuss potential mitigation measures
- GE contacts complainant with investigation conclusions
- EPA follow up as needed
- Record of complaints is included in monthly report submitted to EPA







# Community Information and Outreach



### **Informational Resources**

- Hudson River Field Office
- Press releases
- Fact sheets
- Community events
- Video
- Student visits & educational resources
- CAG
- Websites
  - EPA: www.epa.gov/hudson
    - www.hudsondredgingdata.com
    - www.hudsondredging.com







# **Dredging Data Website**

#### HOME

EPA PERFORMANCE STANDARDS UPDATED

WATER QUALITY MONITORING (RESUSPENSION)

PCB LOAD

AIR QUALITY MONITORING

ODOR MONITORING

NOISE MONITORING

LIGHTING MONITORING

NAVIGATION MONITORING

INTERACTIVE DATA MAPS

PROJECT ACTIVITIES

RESIDUALS / CAPPING / BACKFILLING

PHASE 1 EVALUATION

**CONTACT / STAY INFORMED** 



#### Welcome to EPA's Hudson River Dredging Data Website

This site provides access to performance standard monitoring data that is being generated as part of Phase 2 dredging and sediment processing facility operations. For more information about the Hudson River PCBs Superfund Site go to: <u>www.epa.qov/hudson</u>.

Phase 2 dredging began June 6, 2011. Performance standard monitoring data will be collected daily.

NEW To view Phase 2 data, click on one of the categories on the left side of the screen, or go to the interactive data maps. The interactive data maps show, by location, project activities and monitoring data for both engineering performance standards of water quality (resuspension) and quality of life performance standards such as air quality, odor, noise, lighting, and navigation. <u>Click here</u> to view the interactive data maps.

Phase 1 dredging occurred between May 15 and October 26, 2009. Performance standard monitoring data was collected daily between May and December 2009. Phase 1 data can be accessed at the bottom of each monitoring page.



#### What's New

- NEW EPA Marks the Startup of the Final Phase of Hudson River PCB Dredging. <u>Read more</u>
- NEW Second Phase of Historic Hudson River Cleanup Underway. <u>Read more</u>
- NEW <u>Click here</u> to view the Interactive Data Maps which show, by location, project activities and monitoring data. The monitoring data is shown for both engineering performance standards (water quality/resuspension) and quality of life performance standards such as air quality, odor, noise, lighting, and navigation.

Phase 2 Documents for the 2011 Dredging Season

- <u>Click here</u> to read the Fact Sheet on EPA Technical Requirements for Phase 2 of the Hudson River Dredging Project (767 KB).
- NEW Click here to read the Phase 2 Overview Fact Sheet (5 MB).
- Click here to read the Phase 2
- Fusingasing Dasformance Standards





### **For More Information**

- Phase 2 Remedial Action Community Health & Safety Plan for 2013: http://www.hudsondredgingdata.com/
- Hudson River PCBs Superfund Site Community Involvement Plan: http://www.epa.gov/hudson/plans.html#cleanup26



## **Questions/Comments**









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