Hudson River PCB Superfund Site Project Update

Community Advisory Group Meeting December 8, 2016

Project Update



<u>Topics</u>

- Floodplains (focus on ongoing sampling/work)
- Facility Demobilization (work near complete/next steps)
- Habitat Reconstruction (2016 construction)
 - Monitoring (separate presentation)
- Remedial Action Certification of Completion
 - Next steps and considerations
- Five-Year Review (update)
- Operation, Maintenance and Monitoring (OM&M)
 - 2016 sediment sampling update/considerations



Floodplain Update

STATED STATES - DONOR

<u>Sampling</u>

- Purpose fill data gaps
- 2016 sampling ongoing (started October 25)
- Small diameter cores (to 12 inches some deeper/shallower)
- Property access ongoing (GE lead with EPA follow up as needed)
- Approximately 900 locations targeted
- Alternate properties/locations sampled if no access
- Any locations not sampled will be deferred to spring 2017 for potential sampling (as needed)
- Sampling expected to continue for several weeks or until weather (snow) prevents access
- Flood mud sampling to continue



Floodplain Update

Staten and Andread

Remedial Investigation

- Comprehensive study underway
- Once soil data are in:
 - Begin screening-level ecological risk assessment
 - Conservative first step of the assessment
 - Some details on approach to work out with GE
 - Begin screening-level <u>human health risk assessments</u>
 - Conservative first step of the assessment
 - Every property gets an assessment
- Surveys to better understand ecological and human health features of the floodplains ongoing



Facility Demobilization/Restoration







Demobilization Update



- Work near complete (expect to be complete in next several weeks)
 - EPA focus is to confirm any impacts (including from PCBs) are mitigated
 - On-River Facilities early inspections completed
 - Processing Facility early inspection completed
 - Few follow up items remaining
 - Cleaning of buildings and infrastructure
 - Small soil removal recently done
 - Removal of remaining equipment
 - Property transfer
 - Wharf (EPA) to NYSCC
 - Main property (GE lease with WCC)
 - Facility access road to ?



Habitat Reconstruction



- Habitat remedial action construction work complete
- EPA in process of reviewing the remaining engineering submittals
- 6 Certification Units done in 2016
 - Subaquatic vegetation 1.2 acres planted, 2.9 acres natural recolonization
 - River fringing wetlands 6.4 acres
- Areas continued to be surveyed each season (fall)
- Response actions are completed as needed based on results of surveys
- Ongoing coordination with NYS
- Next presentation has additional details



Remedial Action - Certification



- Construction activities near complete
- GE needs to comply with consent decree requirements
- Items remaining include:
 - Engineering documents
 - Demobilization and restoration
 - Site inspections
 - GE completion report (anticipated this month)
- Certification of Completion not anticipated before fiveyear review



Five-Year Review (FYR)



<u>Update</u>

- Physical construction is almost complete
- Project is in transition between Remedial Action and OM&M
- Ongoing analysis of data and sharing with FYR team
- Receiving input from team members
- Developing supporting technical information for report
- Considering analyses provided by others (NOAA, etc.)
- Providing opportunities for public input (workshops)
- EPA currently drafting report
- EPA coordinating with internal experts and headquarters



Five-Year Review Meetings/Discussions

PCBs SUPERFUND SITE



Month	Format	Topics Discussed					
May 5	Public workshop	Overview of five-year review process					
June 22	Meeting	Team roles and responsibilitiesStatus of data and proposed data collection					
July 28	Conference call	Human health risk evaluationWater, sediment, fish data sets					
August 17	Meeting	EPA's perspective on current data					
September 8	Webinar	Air monitoringImpacts of implementation on recovery					
September 25	Meeting	 NOAA perspective on current data Discuss NYSDEC's questions 					
September 21	Conference call	NYSDEC questions, continued					
October 13	Meeting	Sediment sampling scope of workWater data					
October 13	Public workshop	Overview of progress to date					
October 18	Conference call	Sediment sampling approach					
November 9	Meeting	 Institutional Controls Model forecast and long-term projection considerations 					
November 30	Public workshop	Overview of progress to date					
Hudson River							

FYR Schedule – 2016/2017



- December/January continue to provide information to team and have conference calls (as needed)
- February release report to public
- Several weeks after report release FYR team meeting/public workshop
- February March public comment period
- April EPA review and consider comments
- April 23rd Five-Year Review Report issued

*EPA considering requests for additional time to review report



OM&M Sediment Sampling

- Sampling plan was designed to provide an unbiased estimate of surface sediment PCB concentrations in the Upper Hudson River
- Sampling occurred during November and December 2016
 - Sampling outside of dredge areas completed
 - Recently ended data collection due to weather/river conditions
- Samples inside dredge areas will be completed in spring 2017 - other data available to adequately represent inside dredge areas
- Results of fall 2016 samples expected in early 2017





Long – Term Monitoring Considerations



- Important to monitor fish, water and sediment
- Sediment as the source is most challenging to measure
 - sediments can vary in close proximity to one another
- Water is a less complex indicator
 - provides information related to source release
- Fish is primary indicator
- For all three, time is a critical component to determine change
- Monitoring will be needed for the foreseeable future
- Sediment considerations
 - EPA expects that the sediment program will meet project needs
 - EPA will be responding the NYSDEC request for more sampling
- Summary table



Summary of Sediment Sampling Related information by River Reach										
RS	Reach	Approx RM (# of mi)	Points within Undredged areas	Points within Dredged areas	Total Points	Expected Relative Error in Average TPCB concentration (%)	Large Fish Stations/ Small Fish Stations	Notes		
1	8	194.5 - 188.5 (6)	35	31	66	50	5/5	Water monitoring location RM 187.5		
2	7	188.5 - 186.5 (2)	27	17	122	122	20	2/2	Land-locked area	
	6	186.5 – 182.5 (4)	43	35		30	2/2	-		
3	5	182.5 - 168.5 (14)	63	47		20	5/5	Water monitoring location RM 181.4		
	4	168.5 – 166 (2.5)	6	5			0/0	Rocky river bottom		
	3	166 – 163 (3)	10	8	187		0/0	Rocky river bottom		
	2	163 - 159.5 (3.5)	17	3				0/0	Drained during winter	
	1	159.5 – 154 (5.5)	25	3			0/0 Add fish station	Water monitoring location RM 156		

375

149

226

Grand Total

Alb-Tr 145

Pou 75







