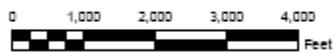


KINGSTON ASH RECOVERY PROJECT MONTHLY REPORT April 2011

Aerial Image of Kingston Ash Slide (03/16/2011)



Date of imagery: 03/16/2011

Tennessee Valley Authority
Geographic Information & Engineering

Filename: Image04_20110316_011.pdf

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KINGSTON ASH RECOVERY PROJECT

MONTHLY REPORT

April 2011

SAFETY

- Twenty-five (25) site specific HSE orientations were conducted during April – 1,872 to date. One hundred ninety-nine (199) HSE site orientation refresher courses have been conducted this year.
- One hundred twenty-five (125) Safety Observation Reports were submitted during April – 1,908 to date; 1,904 have been closed.
- A First Aid occurred on April 5, 2011 when a Civil Projects worker strained his arm while trying to release a fork on the fork lift by pushing with his right arm and using his left arm for leverage. He was treated by the paramedic and returned to work.
- The last recordable incident occurred on December 22, 2010.
- The TRIR through the last reporting period is 0.89.

INFRASTRUCTURE/ASH MANAGEMENT

- Efforts for site maintenance, dust control, and HAZWOPER control continued.
- Continued recovering cenospheres from the onsite ponds.
- Conducted the first of three ash stabilization/drying application tests by vendors in the Lateral Expansion area. The other two tests will be conducted in May.

TIME CRITICAL ASH DISPOSITION

- Project closure documentation and records turnover is underway.
- An inspection of remaining inventory was completed and arrangements were made to remove Profile trailers from TVA property.

ASH SLURRY & POND TSS CONTROL

- TVA Civil Projects dragline did not operate during the month. No ash was removed from the Sluice Trench.
- TSS sampling was performed throughout the ash slurry system.
- During the week of April 18-24, the polymer addition at the Plant discharge to the Sluice Trench was turned off when an accumulation of polymer flocculation was noticed. The Sluice Trench effluent and Ash Pond effluent polymer addition rates were later lowered in response to lower TSS values and plant flow reduction. There was no pH control action required.
- Bathymetric survey was completed on April 28th; data is being processed.

ASH PROCESSING / BALLFIELD PREPARATION

- Notification of air quality permit and plant ash handling plan approvals were received. Rim Ditch closure work was initiated with excavation of loose ash near completion.
- Civil Projects completed removal of railroad ties and Jersey barriers in preparation for grading to 770' elevation.
- All actions related to Ballfield preparation under the rail removal PO were completed. The rail yard maintenance was inspected and one item remains to complete the PO.
- Rim Ditch closure work progressed with placement of fill underway; it is approximately 25% complete.
- A LiDAR survey was conducted on April 13 and data should be received by May 5. This will be processed for verification of excavation to 770'msl for IASA placement area.

DIKE REINFORCEMENT

- Civil Projects is constructing an access ramp to allow Segment B material to be placed from the toe up.
- Segment A is completed to Station 120.
- Approximately 4400 feet of 5280 is completed or about 83% complete.
- EPA is requesting that the wall be extended further along the peninsula.
- TVA is working on a plan for Siphon Construction which requires EPA approval.

- Bridge removal continues.
- TVA is working on submitting a plan for Siphon Construction for EPA approval.
- Intake Channel bridge removal was started.

ROUTINE MONITORING

Surface Water Sampling

- There were rainfall events on April 4, April 11, April 15, and April 27, 2011 that triggered storm flow sampling in Swan Pond Embayment and the Emory and Clinch Rivers.
- Samples for metals analysis are now being collected at the Settling Basin Diffuser on days that acid dosing is necessary. The samples are collected right after dosing begins and again 4-6 hours after dosing. The daily pH readings have now been expanded to 16 locations sampled twice a day to include run off ditches that empty into the Dirty Water Ditch and to expand the number of locations in the Settling Ditch. The pH readings are being collected to monitor conditions during wall construction pilot testing.
- Continued routine surface water sampling at the Stilling Pond and Swan Pond Embayment.

Air Sampling

- All air monitoring results for the month of April 2011 from TVA air samplers were below the current Ambient Air Monitoring Plan (AAMP) action levels.

Data Management

- The NTCRA EECA technical memorandum for amphibians was issued to EPA and TDEC.
- The NTCRA EECA technical memorandum for heron, goose, and osprey eggs was issued to EPA and TDEC.
- The NTCRA EECA technical memorandum for groundwater is undergoing internal review.

Biota Sampling

- Goose egg sampling continued.
- The Shoreline Sediment Summary for TDEC was issued to TDEC.

River System EE/CA Sampling and Analysis

- Ash deposition and submerged sediment sampling was completed in Emory River Reach C and initiated in the Emory River Reference Reach.
- Replenishment water collection continues from CRM 7.0 in support of the first round of bulk sediment bioassay testing from the Clinch River.

Non-Routine Sampling

- Provided support to Appalachian State sub-bottom profiling in the Clinch and Emory Rivers.
- A readiness review was conducted for the groundwater sampling for wells at the Gypsum Pond.
- A work package is being prepared for additional vibecore and submerged sediment sampling in the intake channel associated with the bridge removal and buttressing.

DREDGE CELL

- Continued stacking ash from the North Embayment and lime-treated ash from treatment pits in the Ballfield into the Central Dredge Cell.
- Stantec delivered the 30% design drawings for the Swan Pond Road perimeter containment to TVA for comment.
- Completed the demonstration test section of the perimeter stabilization wall; waiting for evaluation of results by TVA, Stantec, and regulators to proceed with full production.
- Began mobilization for core drilling of the completed demonstration test section of the perimeter stabilization wall.
- Began preparation of the working platform along the Swan Pond Road segment of the perimeter stabilization wall, which included placing ash fill in the relic area (Cell 1) of the Dredge Cell.

LATERAL EXPANSION

- Continued subgrade recontouring in the Lateral Expansion area. Quantities of ash previously stockpiled in the Lateral Expansion will remain and are reflected in the cumulative volumes stacked within the Lateral Expansion area as part of the subgrade recontouring.
- TVA submitted the 90% ash stacking design for the Lateral Expansion area to the regulators for review and comment.

EMBAYMENT ASH PROCESS

- TVA Civil Projects excavated and hauled 122,804 CY from the North Embayment and 30,902 CY from the Middle Embayment.

COMMUNICATIONS

Communications:

- Added Weekly Dike C Reports and Weekly Area Resident Updates to Kingston Ash Recovery website.
- Sent weekly update to the CAG, public officials and members of the public who have signed up to receive weekly emails.
- Updated Administrative Record with work plans and relevant documents.
- Continued to respond to calls and visits from residents.
- Published special edition of *Inside the Cell* newsletter highlighting severe weather actions and evacuation routes for site and plant employees.
- Compiled Educational Initiative information for posting to the TVA website.
- Updated site bulletin boards with April and special edition newsletters.

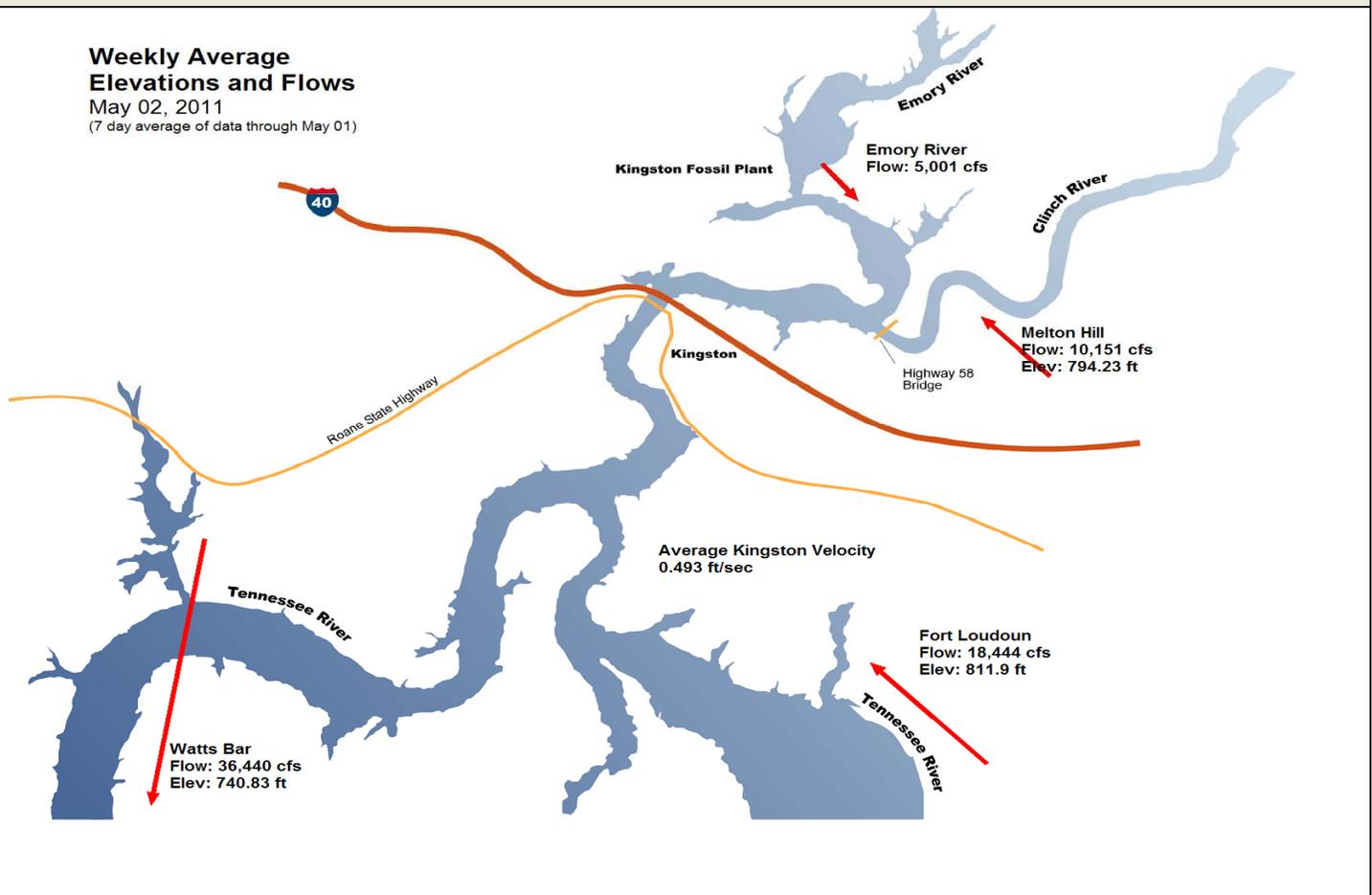
Outreach:

- Attended Roane County Community Advisory Group meeting to provide site update.
- Conducted a tour for the Roane County Environmental Review Board.
- Conducted three "Biscuits with the Project Management" meetings with site employees.

Other:

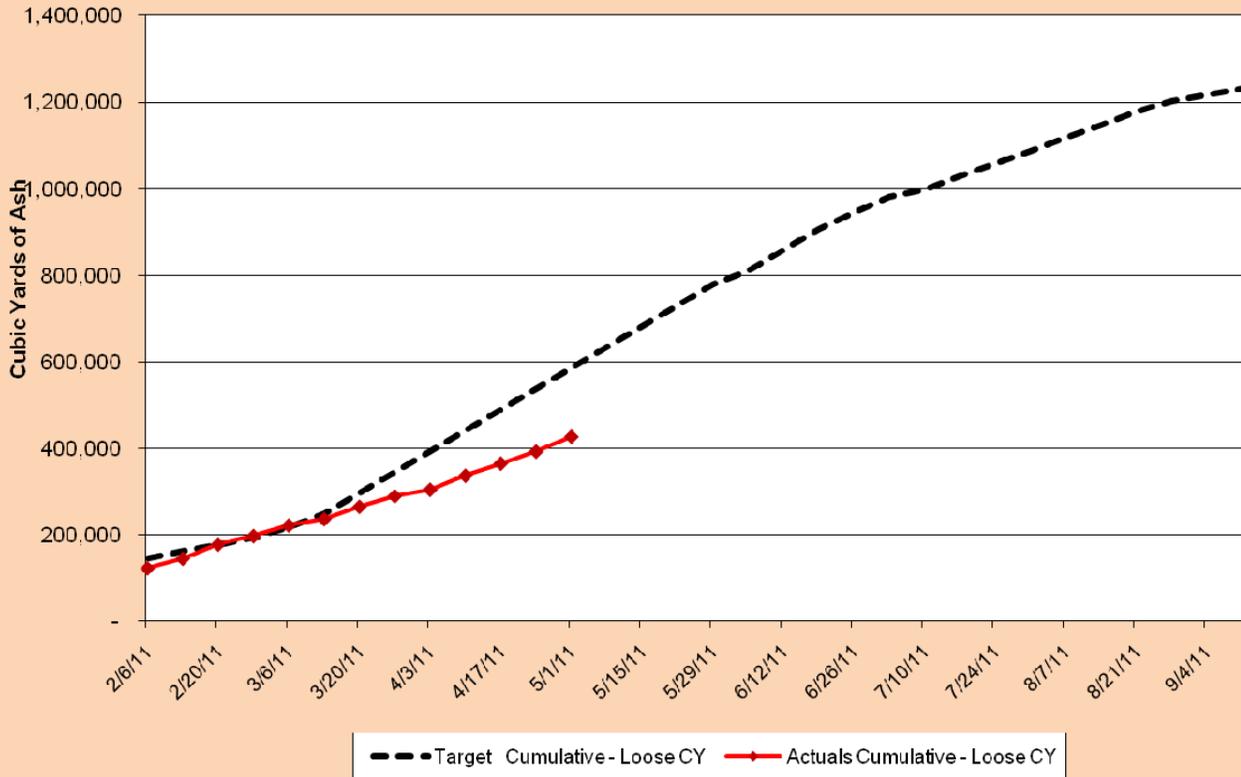
- Visited Camp Buck Toms, the Boy Scout Camp, located in Roane County after receiving a corporate contribution request.
- Conducted site tour for Fitch representatives (bond rating agency) on April 29.

RIVER OPERATIONS



KINGSTON ASH RECOVERY PROJECT			APRIL 2011		FIELD REPORT
Safety			Monthly Total	FY - Cumulative Total	
Near Misses			0	0	
First Aid Incidents			1	9	
Recordable Incidents			0	2	
Recordable Lost Time Incidents			0	0	
Environmental	Matrix	Samples	Analyses	Results	
Organization - TVA	Air - Real Time (Final)	--	--	267,188	
Organization - TVA	Air - Fixed	4,306	--	6,401	
Organization - TVA	Surface/Utility Water	5,281	45,605	223,285	
Organization - TVA	Ground Water (spring & well)	176	1,761	7,184	
Organization - TVA	Ash	78	104	1,689	
Organization - TVA	Soil/Sediment	642	1,197	8,494	
Organization - TVA	Biota	2,647	6,125	71,913	
Ash Removal/Excavation	Non-Time-Critical			Cumulative Total	
From West Storage TC to Dredge Cell	Estimated CY (modified to an in-place volume) Time Critical			17,834	
Mid Embayment to Dredge Cell	Estimated CY (modified to an in-place volume)			176,712	
From Mid Embayment to Dredge Cell 1 - Relic	Estimated CY (modified to an in-place volume)			1,529	
North Embayment to Dredge Cell	Estimated CY (modified to an in-place volume)			213,558	
From Dredge Cell	Estimated CY (modified to an in-place volume)			5,336	
From Mid Embayment to Ballfield	Estimated CY (modified to an in-place volume)			46,240	
From North Embayment to Ballfield	Estimated CY (modified to an in-place volume)			71,907	
From Mid Embayment to Lateral Expansion	Estimated CY (modified to an in-place volume)			32,787	
From North Embayment to Lateral Expansion	Estimated CY (modified to an in-place volume)			14,647	
From North Embayment to Mid Embayment	Estimated CY (modified to an in-place volume)			3,198	
Ash Stacking	Non-Time-Critical			Cumulative Total	
Subgrade Recontouring Central Dredge Cell (Cell 3)	Estimated CY (modified to an in-place compacted volume)			30,930	
Subgrade Recontouring North Dredge Cell (Cell 2)	Estimated CY (modified to an in-place compacted volume)			3,198	
Subgrade Recontouring Lateral Expansion (Cell 2)	Estimated CY (modified to an in-place compacted volume)			45,200	
Ash Stacking Central/North Dredge Cell (Cells 2 & 3)	Estimated CY (modified to an in-place compacted volume)			457,387	
Ash Stacking South Dredge Cell (Cell 1)	Estimated CY (modified to an in-place compacted volume)			3,213	
Ash Stacking Lateral Expansion (Cell 4)	Estimated CY (modified to an in-place compacted volume)			0	
Ash Stacking Ash Pond	Estimated CY (modified to an in-place compacted volume)			0	
Ash in Temporary Storage	Estimated CY (modified to an in-place compacted volume)			-33,869	

Ash Excavation from North Embayment - Weekly
as of May 1st



Ash Stacking in Dredge Cell - Weekly
as of May 1st

