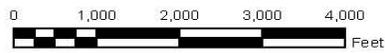


KINGSTON ASH RECOVERY PROJECT MONTHLY REPORT January 2012

Aerial Image of Kingston Ash Slide (12/31/2011)



Date of imagery: 12/31/2011

Filename: ImageOnly_20111231_0x11.pdf

Tennessee Valley Authority
Geographic Information & Engineering

KINGSTON ASH RECOVERY PROJECT

MONTHLY REPORT

January 2012

SAFETY

- Twenty-seven (27) site-specific health, safety and environment (HSE) orientations were conducted during January – 2,088 year to date. Zero (0) site-specific refresher courses were conducted during the month of January - 356 year to date.
- Sixty-one (61) safety observation reports (SORs) were submitted during January – 2,643 year to date; 2,643 are closed.
- The last recordable incident occurred on December 22, 2010 and became a recordable on December 28, 2010.

INFRASTRUCTURE / ASH MANAGEMENT

- Efforts for site maintenance, dust control, and HAZWOPER control continued.
- Continued recovering cenospheres from the onsite ponds.

ASH SLURRY & POND TSS CONTROL

- The total suspended solids (TSS) sampling was performed throughout the ash slurry system. The TSS of the sluice trench discharge averaged 67.1 mg/L, the main ash pond effluent TSS averaged 40.3 and the stilling pond effluent averaged 4.5 for the month.
- The sluice trench effluent and ash pond effluent polymer addition rates were near minimum levels during the month. The sluice trench influent polymer addition remained offline during January.
- The new ash pond outlet structure construction continued throughout the month.
- The main ash pond area is being filled with perimeter wall stabilization (PWS) spoils and high moisture content ash from the middle embayment. A flow barrier dike around the placement area was installed and the water level was pumped down 1.1 foot during the month.

ASH PROCESSING / BALLFIELD PREPARATION

- Trans Ash hauled dry fly ash from the silos and material was placed in the interim ash staging area (IASA). Geosyntec provided quality control and assurance during placement.
- The Kingston Fossil (KIF) plant operated from January 1-6, 2012, 16-20, 2012 and was offline for remainder of the month.
- Ballfield photos from the Slaker cameras were provided to Geosyntec for their construction record.

DIKE REINFORCEMENT

- The diffuser flow test was conducted the week of January 9, 2012.

ROUTINE MONITORING

Surface Water Sampling

- There were rainfall events greater than 0.5-inches that triggered storm flow sampling in Swan Pond embayment for January 7, 17, 21, 23 and 26, 2011. There were no rainfall events the week of January 15.
- Continued routine weekly surface water sampling at the stilling pond and Swan Pond embayment. All monthly stilling pond results received to date have shown compliance with the outfall National Pollutant Discharge Elimination System (NPDES) permit.
- Automated monitoring stations (Hydrolabs) are online continuously monitoring pH at three locations in the settling ditch system. The real-time pH results from the settling ditch system are monitored daily and used to make acid-dosing decisions to control the pH of the outflow.
- Continued daily TSS monitoring at the sluice trench, ash pond, and stilling pond.
- Received regulatory approval to move the ISCO automated sampler in the clean water ditch farther out toward the river to accommodate construction of Dike 3. The task orders to upgrade the infrastructure and complete the move are being processed.

Air Sampling

- All air monitoring results for January from the PM2.5 and PM10 TVA air samplers were below the current ambient air monitoring plan (AAMP) action levels.

Data Management

- The revised fish technical memorandum was finalized and issued on January 10, 2012.
- Technical memoranda for benthic invertebrates and bulk sediment and pore water are in process. The benthic invertebrate technical memorandum is undergoing comment resolution and expected for regulatory submittal by February 17, 2012.

Biota Sampling

- Benthic invertebrate community survey sampling was performed at Clinch and Emory River locations in January 2012.

Non-Routine Sampling

- Continued sample collection and on-site moisture testing in support of dredge cell and ballfield operations.

DREDGE CELL

- Completed planned PWS construction of Segment 1A at the transition slope in the northwest corner of the dredge cell and completed Segment 1B in the eastern end of the Segment.
- Continued repair of PWS wall in Segment 1A.
- Minimal stacking was done in north dredge cell as conditions became too wet due to excessive rainfall.
- CP continued installation of French drains in Segment 7 platform.
- Griffin Dewatering mobilized to the site and began a dewatering demonstration test in the Segment 8 platform.
- Completed jet grouting demonstration test for repair of cold joints.
- Began mobilization for buttress wall construction at Segment 1A.

LATERAL EXPANSION

- Restrictions remain that limit stacking to a maximum of 1 foot per day.
- Minimal stacking was done for much of the month in the lateral expansion due to wet conditions.
- Wet ash and spoils were placed in the ash pond in preparation of the subgrade prior to stacking.

RIVER ENGINEERING EVALUATION / COST ANALYSIS (EE/CA) AND BASELINE ECOLOGICAL RISK ASSESSMENT (BERA)

- Continued evaluation of nature and extent and human health risk, and evaluation of technology process options.
- Facilitated EE/CA scoping meeting with the regulators and began description of alternatives.

EMBAYMENT RESTORATION AND RECREATION AREA DEVELOPMENT

- Completed preparation of the final master plan.

NORTH EMBAYMENT

- Continued writing initial sections of the engineering evaluation/cost analysis (EE/CA) report.
- All concurrence documents approved by EPA and TDEC.

MIDDLE EMBAYMENT

- Continued bulk excavation work from west to east.

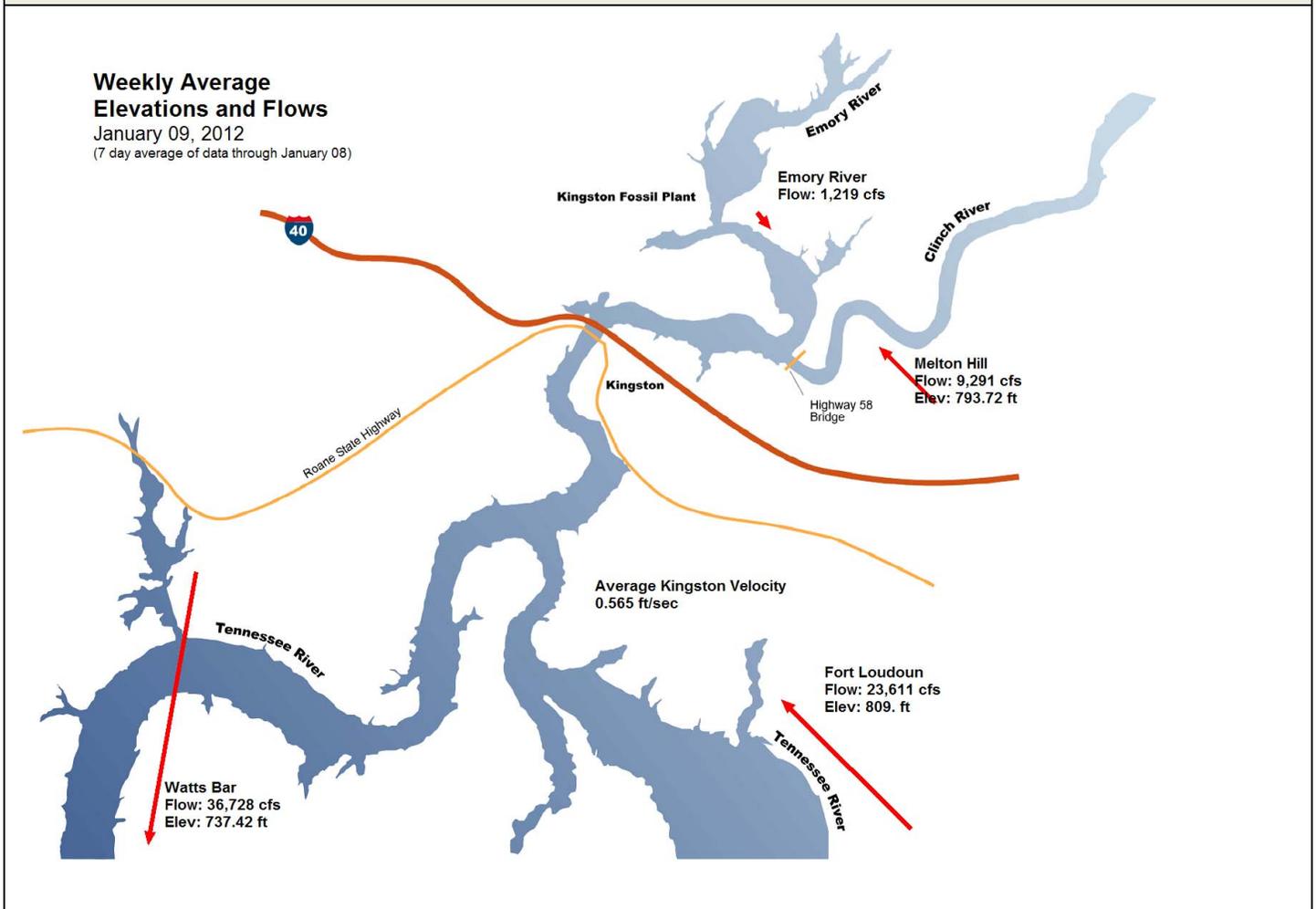
TVA PROPERTY DEMOLITION

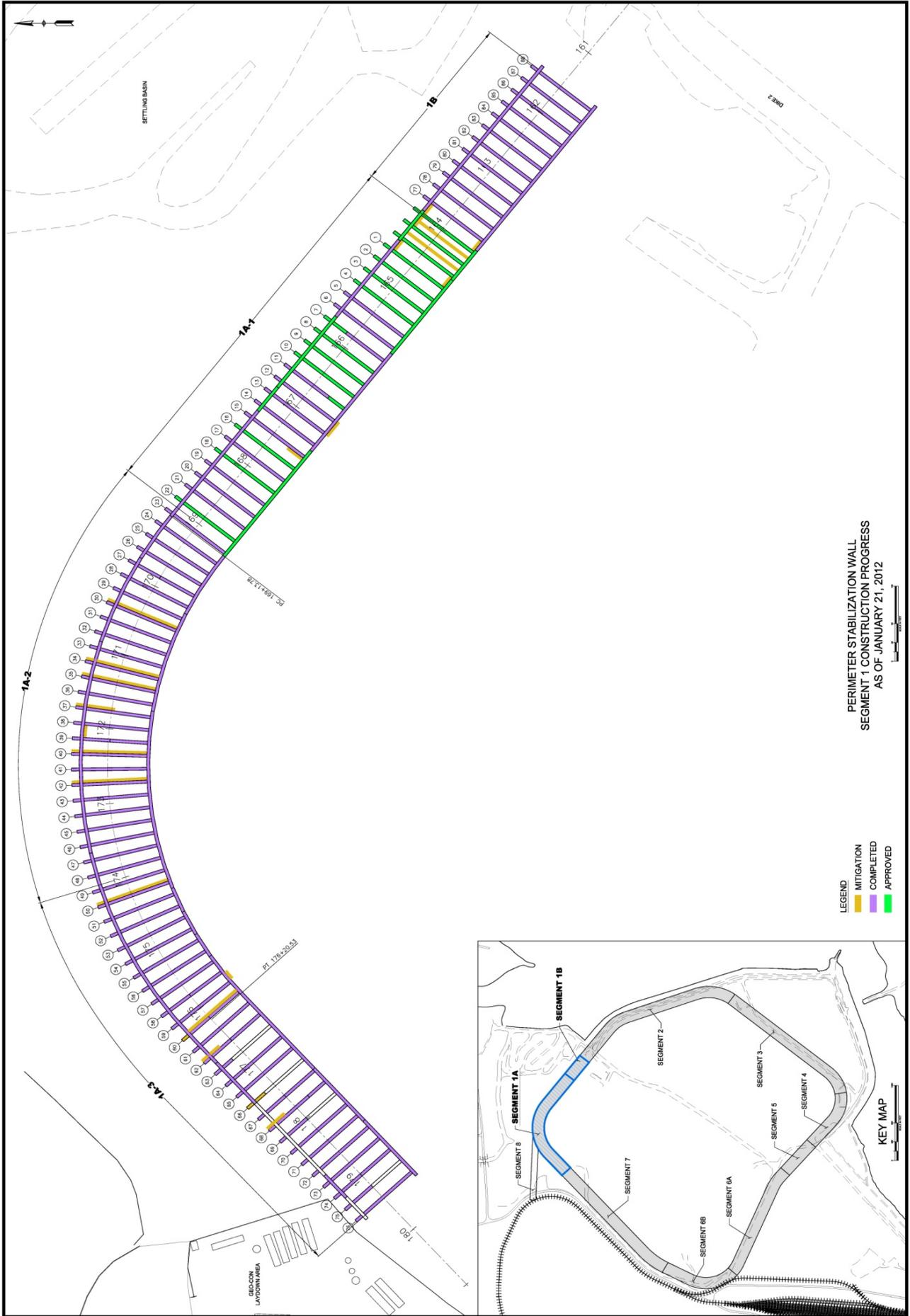
- Continued structure removal activities on Lakeshore Drive.
- Completed installing erosion control measures on river side of Lakeshore Drive.
- Activities slowed near the end of the month due to heavy rain.
- Completed more Swan Pond Circle structure removal.

COMMUNICATIONS

- Added weekly area resident updates to Kingston Ash Recovery website.
- Sent weekly updates 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.
- Updated site bulletin boards.
- Composed and delivered January *Inside the Cell* newsletter for site and plant personnel.
- Steve McCracken, general manager of the Kingston Ash Recovery Project, made a presentation to the East Tennessee Chapter of the Association for the Advancement of Cost Engineering International (AACEI) January 23, 2012 at the Gondolier Restaurant in Oak Ridge describing where Kingston is located, what happened during and after the spill, and the status of the cleanup. There were about 25-30 people present at the lunchtime meeting.

RIVER OPERATIONS



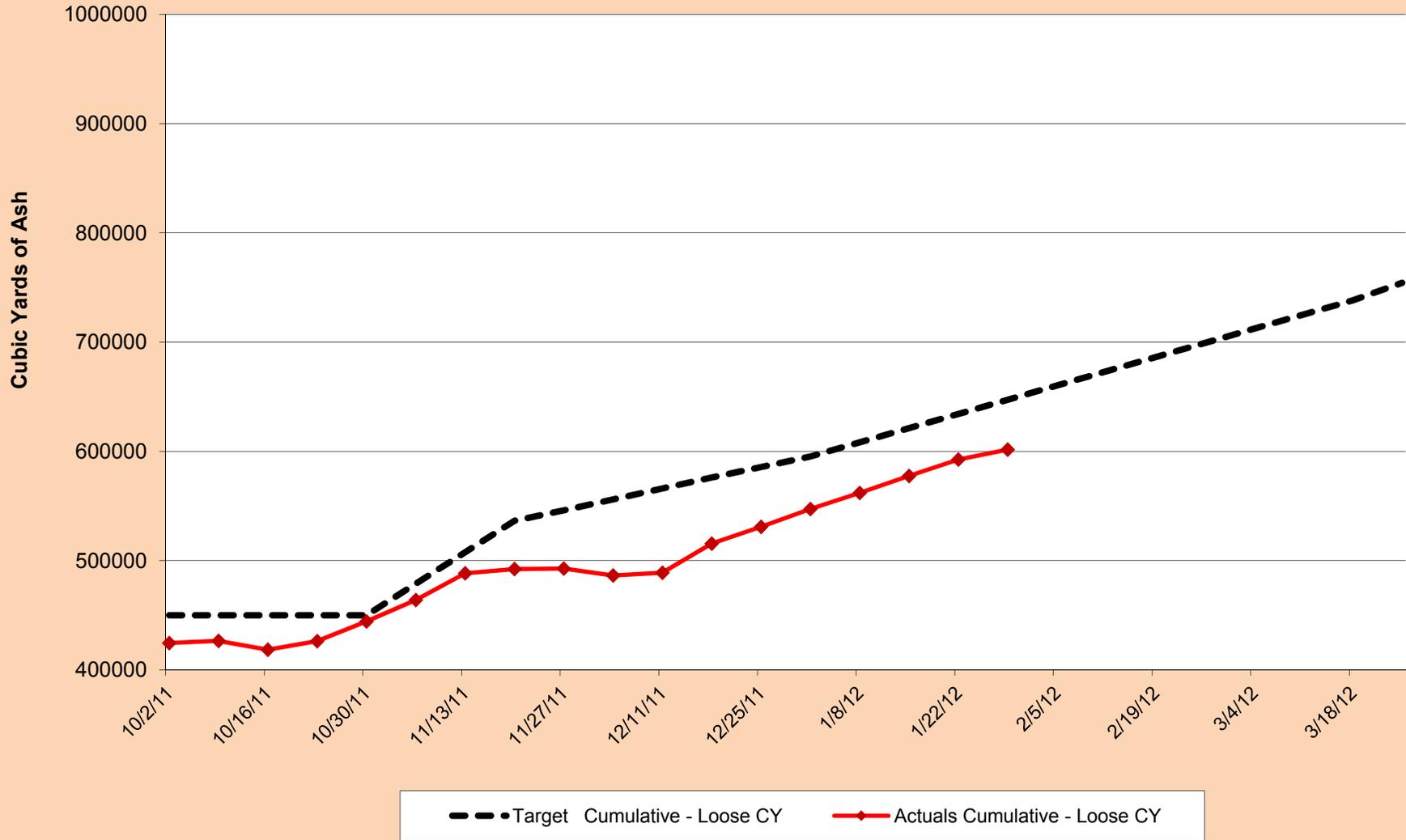


Kingston Ash Recovery Project		January 2012		Field Report
Safety		Monthly Total	FY – Cumulative Total	
Near Misses		0	0	
First Aid Incidents		3	7	
Recordable Incidents		0	0	
Recordable Lost Time Incidents		0	0	
Environmental	Matrix	Samples	Analyses	Results
Organization - TVA	Surface / Utility Water	5,539	47,368	256,062
Organization - TVA	Groundwater (spring & well)	241	2,512	14,770
Organization - TVA	Ash	756	1,333	9,973
Organization - TVA	Soil / Sediment	1,020	1,999	15,193
Organization - TVA	Biota	4,514	10,401	119,492

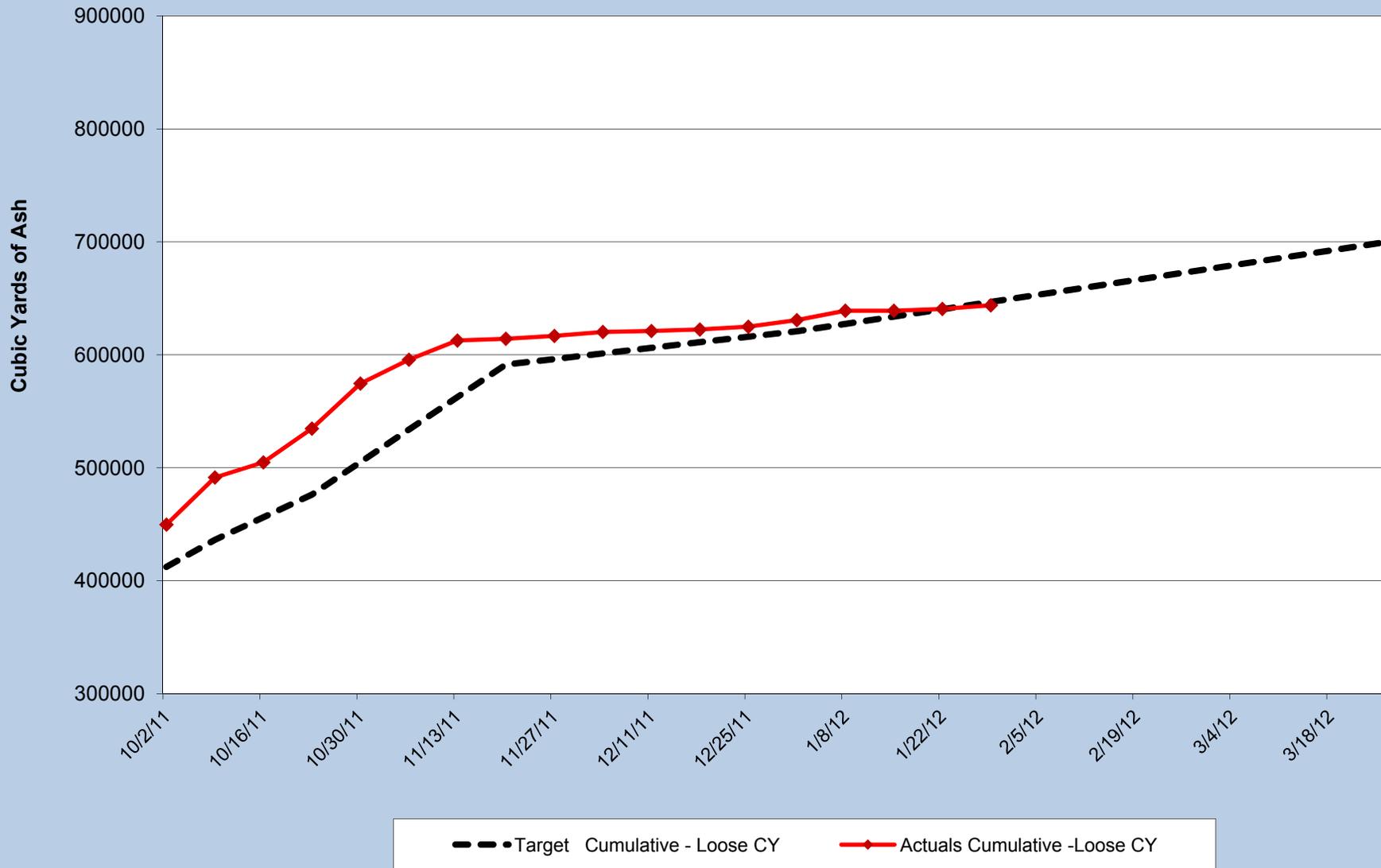
Work Description	Period Work Performed (CYIP)	PTD Work Performed (CYIP)
Ash Removal / Excavation		
Total Removed from Middle Embayment	41,491	453,533
Total Removed from North Embayment	-	1,010,322
Total Removed from Settling Basins / Dike 2	4980	16,937
Excavated Total	46,471	1,480,792
Work Description	Period Work Performed (CCY)	PTD Work Performed (CCY)
Placement		
Total Placed in Dredge Cell	(1,656)	769,054
Total Placed in Lateral Expansion	12,253	503,452
Total Placed in Ash Pond	71,815	135,782
Placed Total	82,412	1,408,287
Work Description	Period Work Performed (CCY)	PTD Work Performed (CCY)
Storage Handling		
Total Removed from Lateral Expansion	-	5,179
Total Removed from Dredge Cell	6,879	223,120
Total Removed from Ballfield	14,054	325,876
Removed from Storage Total	20,933	554,174
Net Removed to(from) Ballfield Storage	(6,801)	(95,691)

For period ending January 31, 2012.

Ash Excavation from Middle Embayment Weekly as of January 30, 2012



Ash Stacking in Lateral Expansion Weekly as of January 30, 2012



**Perimeter Wall Stabilization Segment 1A, 1B, 8 & 7
Weekly as of January 30, 2012**

