

RELIC IDENTIFICATION PHOTOGRAPHIC LOG

Client Name: Tennessee Valley Authority		Site Location: Kingston Fossil Plant – Harriman, Tennessee	Project No.: 60095742
Photo No.: 001	Date: 1-18-2009		
Direction Photo Taken: Looking north.			
Description: Clay cap material on unbroken piece of West Dike approximately 150 feet south of Borehole 09-102.			

Photo No.: 002	Date: 1-18-2009	
Direction Photo Taken: Looking west.		
Description: Clay cap material on unbroken piece of West Dike approximately 150 feet south of Borehole 09-101.		

RELIC IDENTIFICATION PHOTOGRAPHIC LOG

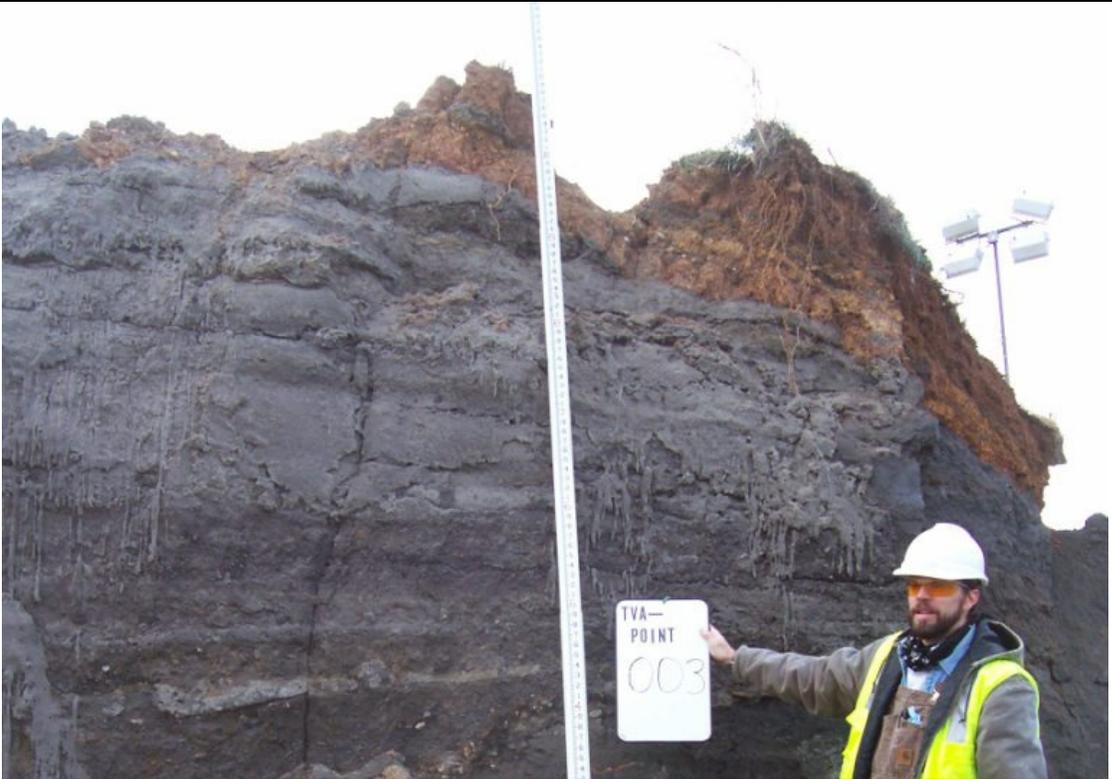
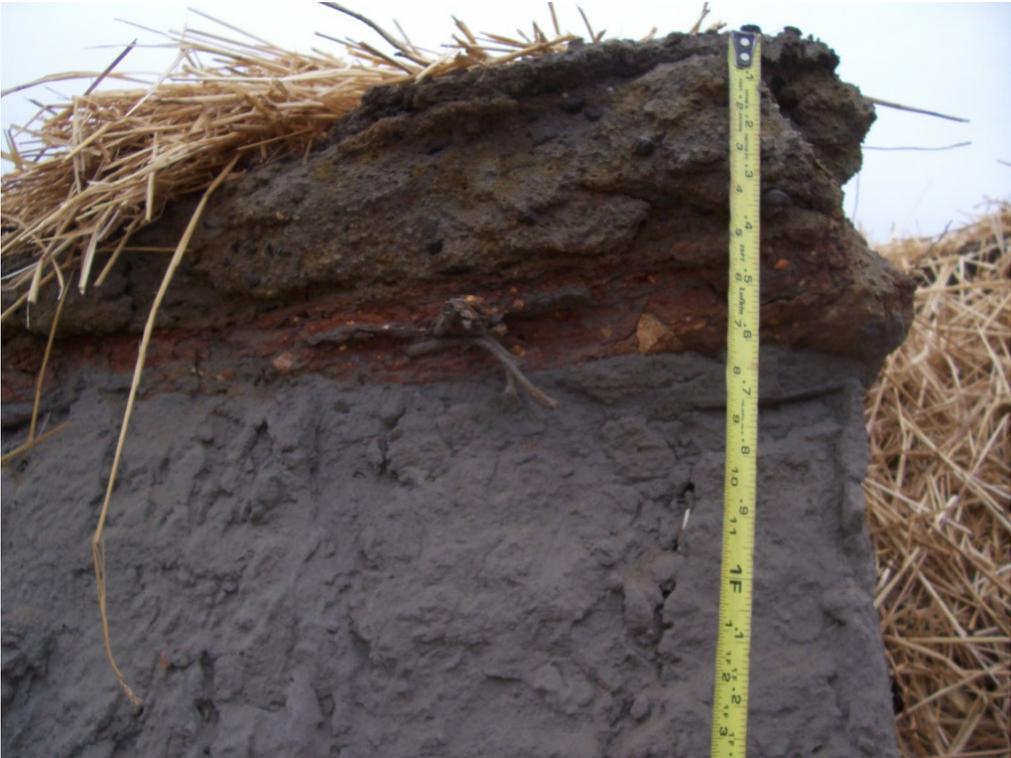
Client Name: Tennessee Valley Authority		Site Location: Kingston Fossil Plant – Harriman, Tennessee	Project No.: 60095742
Photo No.: 003	Date: 1-18-2009		
Direction Photo Taken: Looking southwest.			
Description: North end of West Dike relic approximately 110 feet north of 09-101. Note the “fining upward” sequences of bottom ash (coarse) to fly ash (fine).			

Photo No.: 003_2	Date: 1-18-2009	
Direction Photo Taken: Looking southwest.		
Description: Closer view of the “fining upward” sequences in the West Dike. West end of relic location 003. Bottom ash (coarse) to fly ash (fine).		

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Client Name: Tennessee Valley Authority		Site Location: Kingston Fossil Plant – Harriman, Tennessee	Project No.: 60095742
Photo No.: 004	Date: 1-18-2009		
Direction Photo Taken: Looking south.			
Description: Relic of West Dike. Note fining upward sequences of sluiced ash.			

Photo No.: 004_2	Date: 1-18-2009	
Direction Photo Taken: Looking south.		
Description: Close-up of 004. Note roots in clay cover layer indicating this area was vegetated.		

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Client Name: Tennessee Valley Authority		Site Location: Kingston Fossil Plant – Harriman, Tennessee	Project No.: 60095742
Photo No.: 005	Date: 1-18-2009		
Direction Photo Taken: Looking southeast.			
Description: Remnant of unknown dike material located east of the settling pond in slough between settling pond dike and island in Emory River. Fining upward sequences visible.			

Photo No.: 006	Date: 1-18-2009		
Direction Photo Taken: Looking southeast.			
Description: Remnant of unknown dike material located east of the settling pond in slough between settling pond dike and island in Emory River. Clay cover over bottom ash.			

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Client Name: Tennessee Valley Authority		Site Location: Kingston Fossil Plant – Harriman, Tennessee		Project No.: 60095742	
Photo No.: 007	Date: 1-18-2009				
Direction Photo Taken: Looking northeast.					
Description: Remnant of unknown dike material located east of the settling pond in slough between settling pond dike and island in Emory River. Clay cover with bottom ash both above and below.					

Photo No.: 008	Date: 1-18-2009				
Direction Photo Taken: Looking east.					
Description: Remnant of unknown dike material located east of the settling pond in slough between settling pond dike and island in Emory River. Note vegetation on surface and primarily bottom ash below clay cover.					

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Client Name: Tennessee Valley Authority		Site Location: Kingston Fossil Plant – Harriman, Tennessee	Project No.: 60095742
Photo No.: 009	Date: 1-18-2009		
Direction Photo Taken: Looking south.			
Description: Northwest corner of large remnant of West Dike located southeast of Boring 09-102 beneath the gravel drainage layer and geotextile.			

Photo No.: 010	Date: 1-18-2009	
Direction Photo Taken: Looking east.		
Description: Approximately 75 feet east of Location 009. Interlayered clay cover material and bottom ash.		

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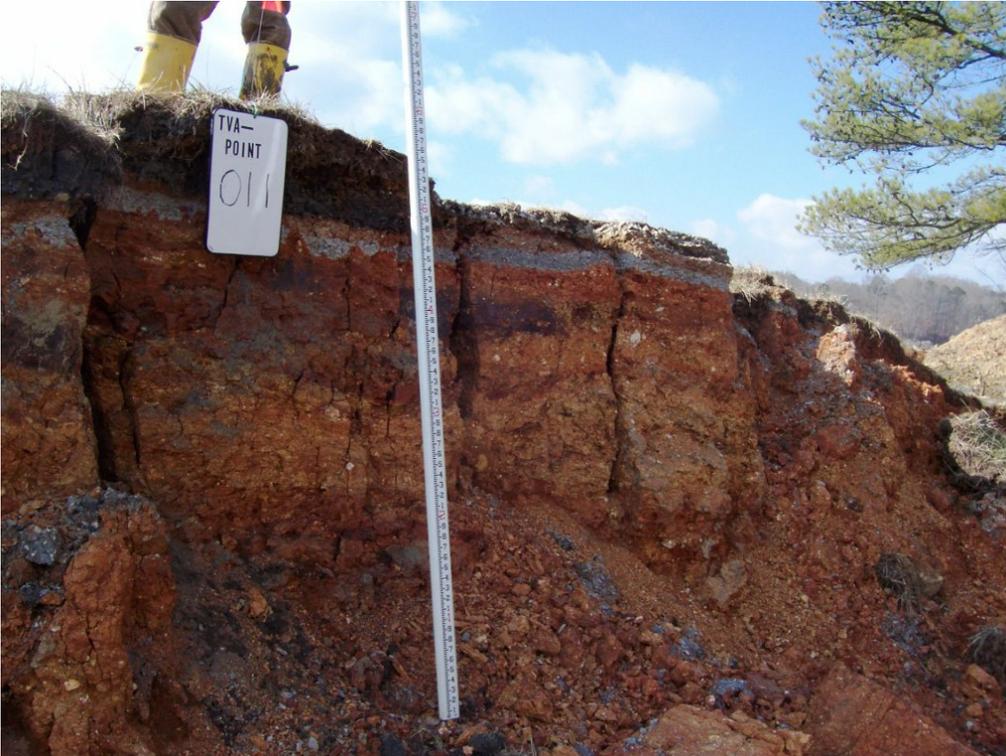
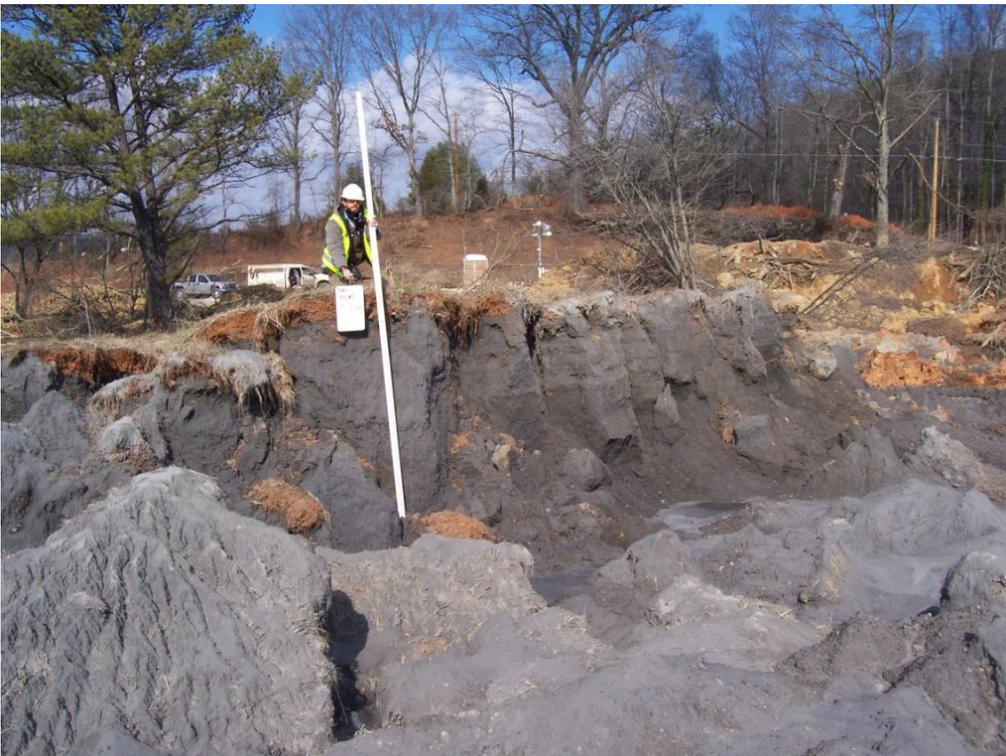
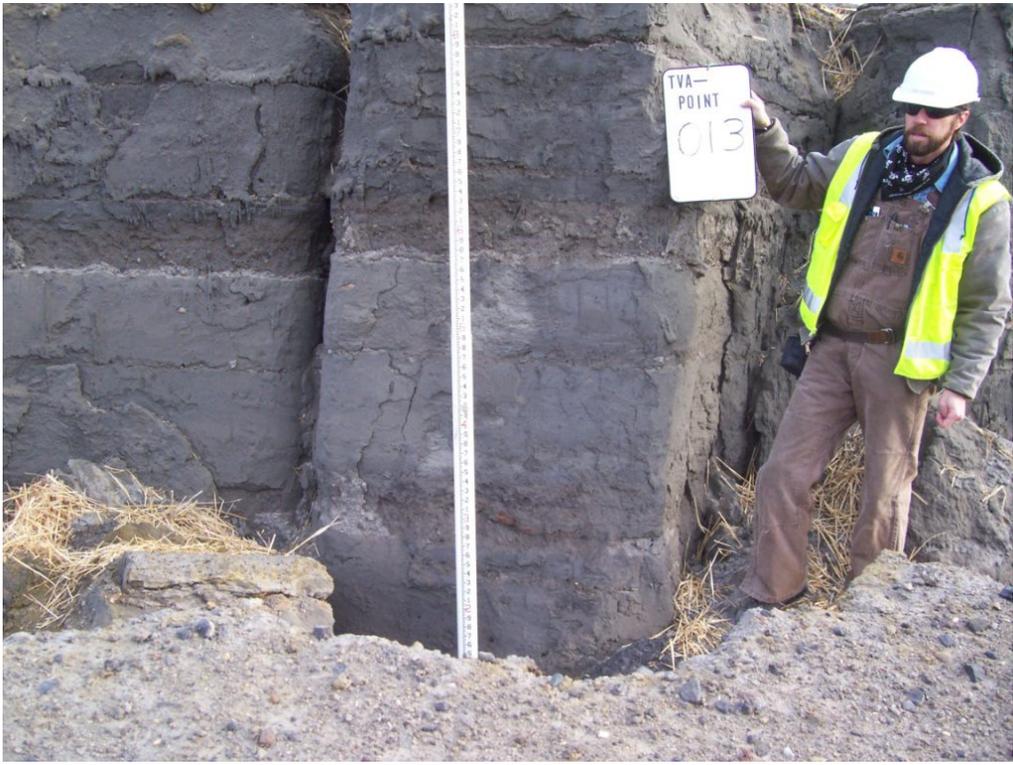
Client Name: Tennessee Valley Authority		Site Location: Kingston Fossil Plant – Harriman, Tennessee	Project No.: 60095742
Photo No.: 011	Date: 1-18-2009		
Direction Photo Taken: Looking northwest.			
Description: Northeast side of large relic of Dike C located on north shore of former backwater. Interlayered clay cover material, bottom ash, and gravel overlying the natural silty clay bottom material from the backwater.			

Photo No.: 011B	Date: 1-18-2009	
Direction Photo Taken: Looking north-northwest.		
Description: South side of block at 011. Ash beneath clay cap and behind relic Dike C material in above photo.		

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Client Name: Tennessee Valley Authority		Site Location: Kingston Fossil Plant – Harriman, Tennessee	Project No.: 60095742
Photo No.: 012	Date: 1-18-2009		
Direction Photo Taken: Looking southwest.			
Description: Approximately 130 to 140 feet south of Location 011. Primarily bottom ash beneath a cap consisting of coarse bottom ash. Wind blown upper surface. Sluiced ash (fining upward sequences) below.			

Photo No.: 013	Date: 1-18-2009	
Direction Photo Taken: Uncertain.		
Description: Large relic block of ash with clear fining upward ash sequences (sluiced ash).		

RELIC IDENTIFICATION PHOTOGRAPHIC LOG

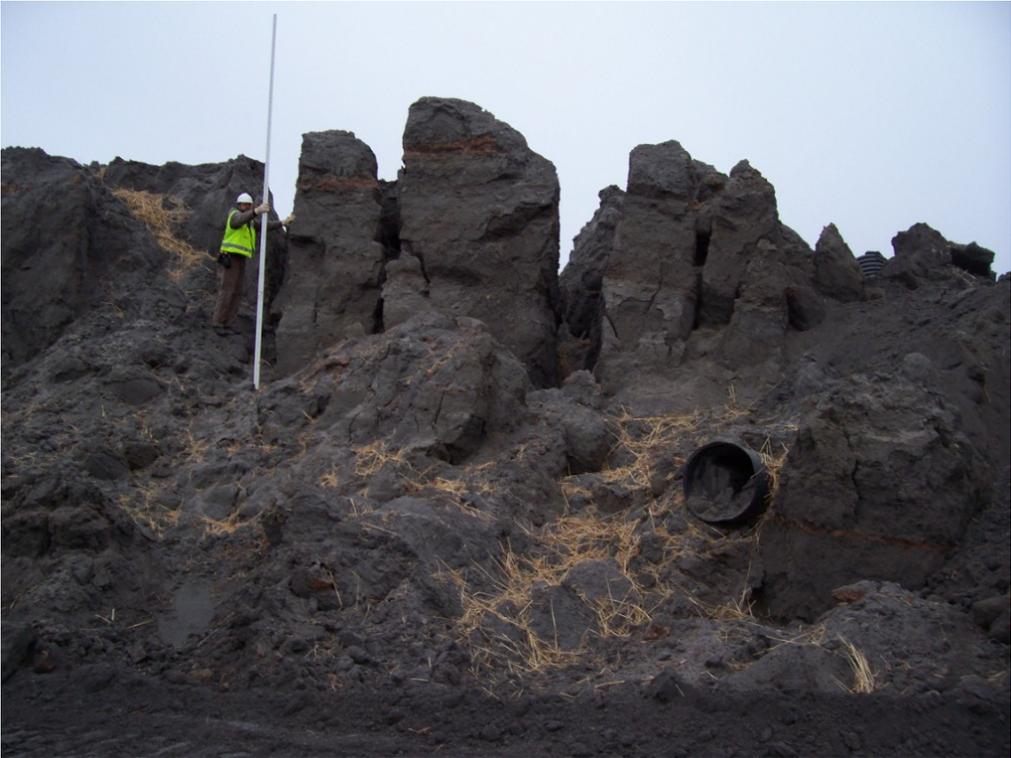
Client Name: Tennessee Valley Authority		Site Location: Kingston Fossil Plant – Harriman, Tennessee	Project No.: 60095742
Photo No.: 014	Date: 1-19-2009		
Direction Photo Taken: Looking west.			
Description: Very large block of ash displaying fining upward sequences (sluiced ash) located approximately 150 feet south-southeast of Boring 09-107			

Photo No.: 015	Date: 1-20-2009		
Direction Photo Taken: Looking east.			
Description: Large remnant ash block in Slough 2. Mostly bottom ash with very thin clay cover. Olive colored layer appears to be a weathered (leached) zone.			

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Client Name: Tennessee Valley Authority		Site Location: Kingston Fossil Plant – Harriman, Tennessee	Project No.: 60095742
Photo No.: 016	Date: 1-20-2009		
Direction Photo Taken: Looking north.			
Description: Remnant of West Dike in Slough 2. Note angle of ash (sluiced) versus the clay cover material (red lines). Angle between clay and ash may be slightly exaggerated due to angle of photograph.			

Photo No.: 017	Date: 1-20-2009		
Direction Photo Taken: Looking north.			
Description: Remnant of West Dike in Slough 2. Note angle of ash (sluiced) versus the clay cover material (red lines). Angle appears to be slightly less than 016 above.			

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Client Name: Tennessee Valley Authority		Site Location: Kingston Fossil Plant – Harriman, Tennessee	Project No.: 60095742
Photo No.: 018	Date: 1-20-2009		
Direction Photo Taken: Looking west.			
Description: Remnant of West Dike in Slough 2.			

Photo No.: 019_1	Date: 1-20-2009	
Direction Photo Taken: Looking south-southwest.		
Description: Southern half of a large relic of the West Dike located in Slough 2. Much of the relic is grass-covered. Natural grass is obscured by hay dropped as a dust-control measure.		

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Client Name: Tennessee Valley Authority		Site Location: Kingston Fossil Plant – Harriman, Tennessee	Project No.: 60095742
Photo No.: 019_2	Date: 1-20-2009		
Direction Photo Taken: Looking south-southwest.			
Description: Northern half of a large relic of the West Dike located in Slough 2. Much of the relic is grass-covered. Natural grass is obscured by hay dropped as a dust-control measure.			

Photo No.: 020	Date: 1-20-2009	
Direction Photo Taken: Looking northeast.		
Description: Relic block of West Dike consisting predominantly of bottom ash with a thin vegetated clay cover.		

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Client Name: Tennessee Valley Authority		Site Location: Kingston Fossil Plant – Harriman, Tennessee	Project No.: 60095742
Photo No.: 021	Date: 1-20-2009		
Direction Photo Taken: Looking northwest.			
Description: Corrugated, perforated polyethylene (PE) drain piping at the base of West Dike relic 021. The piping is obscured by clay cover material and hay below and to the left of the feet of the AECOM staff in the 020 photo above.			

Photo No.: 022	Date: 1-20-2009		
Direction Photo Taken: Looking west.			
Description: Large relic block of West Dike comprised primarily of bottom ash in Slough 2.			

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Client Name: Tennessee Valley Authority		Site Location: Kingston Fossil Plant – Harriman, Tennessee	Project No.: 60095742
Photo No.: 023	Date: 1-20-2009	 <p>A photograph showing a vertical cross-section of a relic dike. The dike is composed of dark, layered ash and clay. A worker in a yellow safety vest and white hard hat stands to the left of the dike, holding a white sign that says 'FIX-POINT 023'. A tall white measuring scale is positioned vertically against the dike. The top of the dike is covered with dry grass. The background shows a hilly landscape under a clear sky. A yellow date stamp '01/20/2009' is visible in the bottom right corner of the photo.</p>	
Direction Photo Taken: Looking northeast.			
Description: Last photo of relic West Dike located in Slough 2. Sluiced ash sequences (fining upward) are clearly visible as is the slight angle between the sluiced ash and clay cover.			

Photo No.: 024	Date: 1-21-2009	 <p>A photograph showing a relic dike in a slough. The dike is covered with a thick layer of dry, tangled reeds or cattails. A worker in a yellow safety vest and white hard hat is kneeling on the dike, holding a white sign that says 'FIX-POINT 024'. In the background, several high-voltage power lines and towers are visible against a clear blue sky. The surrounding area is a flat, open landscape with some snow on the ground.</p>	
Direction Photo Taken: Looking east.			
Description: Cattails formerly present at the northwest corner of the Starter Dike/Dike C over-washed by ash beneath power lines in Slough 2. Note that the wash-over direction is perpendicular to mud flow direction. Relic dike material in the background was completely over-washed.			

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Client Name: Tennessee Valley Authority		Site Location: Kingston Fossil Plant – Harriman, Tennessee	Project No.: 60095742
Photo No.: 025	Date: 1-21-2009		
Direction Photo Taken: Looking west.			
Description: Cattails formerly present at the northwest corner of the Starter Dike/Dike C over-washed by ash. Note wash-over direction is perpendicular to mud flow direction and opposite the direction observed at Location 024.			

Photo No.: 026	Date: 1-21-2009	
Direction Photo Taken: Looking south.		
Description: Relic of drainage layer formerly located on the surface of West Dike, now in Slough 2. #57 stone over clay cover material.		

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Client Name: Tennessee Valley Authority		Site Location: Kingston Fossil Plant – Harriman, Tennessee	Project No.: 60095742
Photo No.: 027	Date: 1-21-2009		
Direction Photo Taken: Looking north-northwest.			
Description: Over-washed vegetation on relic Starter Dike/Dike C.			

Photo No.: 028	Date: 1-21-2009	
Direction Photo Taken: Looking west.		
Description: Cattails formerly present at the northwest corner of the Starter Dike/Dike C over-washed by ash south of Location 024. Note wash-over direction is perpendicular to mud flow direction and similar to the direction observed at Location 024.		

01/21/2009

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Client Name: Tennessee Valley Authority		Site Location: Kingston Fossil Plant – Harriman, Tennessee	Project No.: 60095742
Photo No.: 029	Date: 1-21-2009		
Direction Photo Taken: Looking north.			
Description: Grass-topped relic ash blocks NOT overtopped by ash.			

Photo No.: 029_A	Date: 1-21-2009	
Direction Photo Taken: Looking north.		
Description: Finely laminated bottom and fly ash deposits (sluiced material) sheared during movement from original location northward up Slough 2. Located slightly west of 029 above.		

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Client Name: Tennessee Valley Authority		Site Location: Kingston Fossil Plant – Harriman, Tennessee	Project No.: 60095742
Photo No.: 030	Date: 1-21-2009		
Direction Photo Taken: Looking east.			
Description: Trees transported northward into Slough 2. Note the differing angles of tople (white arrows).			

Photo No.: 031	Date: 1-21-2009	
Direction Photo Taken: Looking east.		
Description: Beneath AECOM staff boot is a 10-inch diameter heavy steel pipe with a burned hole (near arrowhead). Origin uncertain.		

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Client Name: Tennessee Valley Authority		Site Location: Kingston Fossil Plant – Harriman, Tennessee	Project No.: 60095742
Photo No.: 032	Date: 1-21-2009		
Direction Photo Taken: Looking southeast.			
Description: Grass covered by ash on a relic section of the Starter Dike/Dike C in Slough 2.			

Photo No.: 033	Date: 1-21-2009	
Direction Photo Taken: Looking northeast.		
Description: Grass covered by ash on a relic section of the Starter Dike/Dike C in Slough 2.		

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Client Name: Tennessee Valley Authority		Site Location: Kingston Fossil Plant – Harriman, Tennessee	Project No.: 60095742
Photo No.: 034	Date: 1-21-2009		
Direction Photo Taken: Looking east-northeast.			
Description: Long, un-mowed grass not overtopped by ash on a relic of the Starter Dike/Dike C in Slough 2. Long grass may be an indicator of steep-slope in original position. Trees are on separate pieces or floating in the ash.			

Photo No.: 035	Date: 1-21-2009		
Direction Photo Taken: Looking east.			
Description: Telephone pole with attached guy cable (arrow) in Slough 2. Likely a corner or brace pole.			

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Client Name: Tennessee Valley Authority		Site Location: Kingston Fossil Plant – Harriman, Tennessee	Project No.: 60095742
Photo No.: 036	Date: 1-21-2009		
Direction Photo Taken: Looking east.			
Description: Coaxial cable inside conduit along eastern side of Slough 2. Origin uncertain.			

Photo No.: 037	Date: 1-21-2009		
Direction Photo Taken: Looking northeast.			
Description: Two pieces of gray PVC electrical conduit likely associated with cell phone repeater tower found in Slough 2 (see 038).			

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Client Name: Tennessee Valley Authority		Site Location: Kingston Fossil Plant – Harriman, Tennessee	Project No.: 60095742
Photo No.: 038	Date: 1-21-2009		
Direction Photo Taken: Looking east.			
Description: Cell phone repeater tower originally located on the northwest corner of the Starter Dike/Dike C in Slough 2 near the Horse Farm.			

Photo No.: 038_A	Date: 1-21-2009	
Direction Photo Taken: Looking east.		
Description: Same cell phone repeater tower shown in 038. Numbers visible on the base of the tower "12, 15, 06" (circle).		

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Client Name: Tennessee Valley Authority		Site Location: Kingston Fossil Plant – Harriman, Tennessee	Project No. 60095742
Photo No. 039	Date: 1-21-2009		
Direction Photo Taken: Looking southeast.			
Description: Metal cover with associated cable. May be associated with the cell phone repeater tower pictured previously.			

Photo No. 040	Date: 1-21-2009	
Direction Photo Taken: Looking west.		
Description: Railroad rail located along west bank between Sloughs 1 and 2, near northwest construction trailer.		

