

**CELL 1 TEST TRENCH NO. 3  
PHOTOGRAPHIC LOG**

<b>Client Name:</b> Tennessee Valley Authority		<b>Site Location:</b> Kingston Fossil Plant – Harriman, Tennessee	<b>Project No.:</b> 60095742
<b>Photo No.</b> <b>1</b>	<b>Date:</b> 3-7-2009		
<b>Direction Photo Taken:</b>  Looking north.			
<b>Description:</b>  Typical “daylight” for the sideslope drains.			

<b>Photo No.</b> <b>2</b>	<b>Date:</b> 3-7-2009	
<b>Direction Photo Taken:</b>  Looking north.		
<b>Description:</b>  One example of a plugged sideslope drain. The plug appeared to be at the surface.		

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<b>Photo No.</b> <b>3</b>	<b>Date:</b> 1-29-09
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**Direction Photo Taken:**  
  
Looking east.

**Description:**  
  
Preparing to feed video equipment into one of the sideslope drains.



<b>Photo No.</b> <b>4</b>	<b>Date:</b> 1-29-2009
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**Direction Photo Taken:**  
  
Looking east.

**Description:**  
  
Video equipment inside one of the sideslope drains.



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<b>Photo No.</b> <b>5</b>	<b>Date:</b> 1-29-2009		
<b>Direction Photo Taken:</b>  Looking north.			
<b>Description:</b>  Still photo captured from video of sideslope drain at elevation 780' – 23.4 feet from daylight. Note the water mark on the side of the pipe demonstrating that it carried water (red arrows).			

<b>Photo No.</b> <b>6</b>	<b>Date:</b> 1-29-2009	
<b>Direction Photo Taken:</b>  Looking north.		
<b>Description:</b>  Still photo captured from video of sideslope drain at elevation 780' – 29.9 feet from daylight. Note the camera is underwater at this point. The red arrow points to the waterline. This is a low spot in the pipe that collected water.		

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<b>Photo No.:</b> <b>7</b>	<b>Date:</b> 1-29-2009		
<b>Direction Photo Taken:</b>  Looking north.			
<b>Description:</b>  Still photo captured from video of sideslope “EEE” drain at elevation 780’ – 49.6 feet from daylight. Pipe at this location shows no water mark, but is clean and debris-free. Again, the standing water due to a low spot in the non-perforated pipe.			

<b>Photo No.:</b> <b>8</b>	<b>Date:</b> 1-29-2009		
<b>Direction Photo Taken:</b>  Looking north.			
<b>Description:</b>  West pipe run on the south berm, 60.7 feet from daylight. No water mark is visible, but the pipe is clean and free of debris.			

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<b>Photo No.:</b> <b>9</b>	<b>Date:</b> 3-6-2009		
<b>Direction Photo Taken:</b>  Looking southeast.			
<b>Description:</b>  Staging equipment immediately before beginning excavation.			

<b>Photo No.:</b> <b>10</b>	<b>Date:</b> 3-6-2009	
<b>Direction Photo Taken:</b>  Looking west.		
<b>Description:</b>  Dozer beginning removal of Stage D3 Dike material.		

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<b>Photo No.:</b> <b>11</b>	<b>Date:</b> 3-7-2009		
<b>Direction Photo Taken:</b>  Looking West			
<b>Description:</b>  Dozer removing the Stage D3 dike material at the beginning of excavation activities.			

<b>Photo No.:</b> <b>12</b>	<b>Date:</b> 3-7-2009	
<b>Direction Photo Taken:</b>  Looking west		
<b>Description:</b>  Long-stick trackhoe loading ash into articulated dump truck for transport to test trench ash disposal area.		

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<b>Photo No.:</b> <b>13</b>	<b>Date:</b> 3-7-2009		
<b>Direction Photo Taken:</b>  Looking east.			
<b>Description:</b>  Performs a sand cone test. Plastic bag contains ash being removed from sand cone hole for weighing and water content analysis. (Bill Butler, P.E. – AECOM)			

<b>Photo No.:</b> <b>14</b>	<b>Date:</b> 3-8-2009	
<b>Direction Photo Taken:</b>  Looking southwest.		
<b>Description:</b>  Removing ash from sand cone hole as weather turns. Note plastic bag covering sand cone to keep out moisture. (Dan Braatz – AECOM Environment)		

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<b>Photo No.:</b> <b>15</b>	<b>Date:</b> 3-11-2009		
<b>Direction Photo Taken:</b>  Looking north.			
<b>Description:</b>  Beginning sand cone hole in bottom ash. Lighter brown color indicative of bottom ash found in compacted dike. (Randy Sederstrom – AECOM Environment)			

<b>Photo No.:</b> <b>16</b>	<b>Date:</b> 3-13-2009	
<b>Direction Photo Taken:</b>  Looking north.		
<b>Description:</b>  Sand cone testing conducted beneath portable tarp during rain events to prevent materials from getting wet.		

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<b>Photo No.</b> <b>17</b>	<b>Date:</b> 3-9-2009		
<b>Direction Photo Taken:</b>  Looking northeast.			
<b>Description:</b>  Pushing a vertical Shelby Tube with trackhoe bucket.			

<b>Photo No.</b> <b>18</b>	<b>Date:</b> 3-7-2009	
<b>Direction Photo Taken:</b>  Looking southwest.		
<b>Description:</b>  Pushing a horizontal Shelby Tube with trackhoe bucket.		

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<b>Client Name:</b> Tennessee Valley Authority		<b>Site Location:</b> Kingston Fossil Plant – Harriman, Tennessee	<b>Project No.:</b> 60095742
<b>Photo No.:</b> <b>19</b>	<b>Date:</b> 3-7-2009		
<b>Direction Photo Taken:</b>  Looking southwest.			
<b>Description:</b>  First of isolated wet zones encountered during excavation activities.			

<b>Photo No.:</b> <b>20</b>	<b>Date:</b> 3-8-2009	
<b>Direction Photo Taken:</b>  Vertical		
<b>Description:</b>  Second isolated wet zone encountered during excavation activities.		

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<b>Photo No.</b> <b>21</b>	<b>Date:</b> 3-10-2009				
<b>Direction Photo Taken:</b>  Looking west.					
<b>Description:</b>  Excavation progress prior to encountering uppermost drain pipe.					

<b>Photo No.</b> <b>22</b>	<b>Date:</b> 3-10-2009				
<b>Direction Photo Taken:</b>  Looking north.					
<b>Description:</b>  Red arrow points to surface expression of one of the drain pipes placed into the ash during construction of the dike.					

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<b>Photo No.:</b> <b>23</b>	<b>Date:</b> 3-10-2009		
<b>Direction Photo Taken:</b>  Uncertain.			
<b>Description:</b>  Uncovering polyethylene drainage pipe. White arrow highlights drainage fabric encountered during excavation.			

<b>Photo No.:</b> <b>24</b>	<b>Date:</b> 3-9-2009	
<b>Direction Photo Taken:</b>  Looking east.		
<b>Description:</b>  Polyethylene pipe exposed for sample collection. Work is being conducted on a lateral, perforated section of pipe. The non-perforated pipe that daylights on the slope of the berm exits the right side of the photo.		

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<b>Photo No.:</b> <b>25</b>	<b>Date:</b> 3-9-2009		
<b>Direction Photo Taken:</b>  Looking northeast.			
<b>Description:</b>  Sample of drainage fabric. White arrow points to metal staple used to secure the fabric. Surface rust on staple indicates presence of water.			

<b>Photo No.:</b> <b>26</b>	<b>Date:</b> 3-10-2009	
<b>Direction Photo Taken:</b>  Vertical.		
<b>Description:</b>  Perforated polyethylene pipe with evidence of water movement through the gravel pack and into the pipe (white surface coating on pipe).		

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<b>Photo No.</b> <b>27</b>	<b>Date:</b>		
<b>Direction Photo Taken:</b>  Looking west.			
<b>Description:</b>  Collecting a sample of lateral perforated polyethylene pipe.			

<b>Photo No.</b> <b>28</b>	<b>Date:</b> 3-18-2009	
<b>Direction Photo Taken:</b>  Looking west.		
<b>Description:</b>  Surveyor with GPS preparing to locate sand cone and Shelby Tube locations in preparation for trackhoe excavation.		

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<b>Photo No.</b> <b>29</b>	<b>Date:</b> 3-22-2009		
<b>Direction Photo Taken:</b>  Looking northeast.			
<b>Description:</b>  Arrow points to completed excavation of south berm recently coated with Flexterra® dust control material (green) as seen from Swan Pond Road approximately 200 yards south of plant entrance/guard shack.			

<b>Photo No.</b> <b>30</b>	<b>Date:</b> 4-9-2009	
<b>Direction Photo Taken:</b>  Vertical.		
<b>Description:</b>  TVA air photograph taken April 9, 2009. The red circle outlines the completed excavation. The green Flexterra® dust control material has dried to tan.		