Agreement Log #: KRP-11-008

Non-Time-Critical Concurrence

Area: The North Embayment Grids 7-G, 7-H, 7-J, 7-K, and 7-L

Agreement:

All practical ash removal has been completed or was not required in the North Embayment area delineated by the portions of North Embayment Grids 7-G, 7-H, 7-J, 7-K, and 7-L. Additional cleaning was performed and an ash migration control structure was installed after ash migrated from the dike supporting the Swan Pond Circle Road.

During ash removal operations, daily quality assurance was performed to visually determine the removal of the ash, progress was photo documented and operational soil sampling was conducted prior to releasing the area for concurrence sampling and removing the area from excavation and cleaning operations. Concurrence samples were submitted to RJ Lee Laboratory for determination of ash content by polarized light microscopy. Sample results ranged from non-detect to a maximum of 44% ash content and are attached as an EQuIS Summary table.

The location of the samples and the boundary of the area cleared are shown on the attached Figure 1.

No further action is needed to remove ash from this area.

Attachments:
Attachment 1, North Embayment Sampling Status Table
Attachment 2, Polarized Light Microscopy Results from RJ Lee Laboratory, EQuIS Summary Table
Attachment 3, Daily Quality Assurance Reports
Attachment 4, RSI Sampling Field Logs
Figures:
Figure 1, North Embayment Grids - Cleared
Figure 2, Area Photo Log and Representative Photos
FIG-NESAM-02, North Embayment Sample Grid Locations

Concurrence Comments:

Jacobs Project Manager — 12/01/2011 Date

Tennessee Valley Authority — 12/2/11 Date

U. S. Environmental Protection Agency — 12/07/11 Date

Attachment 1

North Embayment Sampling Status Table

North Embayment Sampling

Sample ID	Grid Point	CP Released	Cell Sample date	TVA Lab	RJ Lee Lab	Clean
KIF-NEMBAY_7L1-SED-082511-B	7L1	N	08/25/2011	>50%	N/A	Failed
KIF-NEMBAY_7L1_A-SED-082511-B	7L1	Y	08/25/2011	<50%	<50%	Passed
KIF-NEMBAY_7L2-SED-082511-B	7L2	Y	08/25/2011	<50%	<50%	Passed
KIF-NEMBAY_7L3-SED-082511-B	7L3	Y	08/25/2011	<50%	<50%	Passed
KIF-NEMBAY_7L4-SED-082511-B	7L4	Y	08/25/2011	<50%	<50%	Passed
KIF-NEMBAY_7L1-SED-083011-B	**7L1**	**Y**	**08/30/2011**	**<50%**	**<50%**	**Passed**
KIF-NEMBAY_7J1-SED-102011-B	7J1	Y	10/20/2011	<50%	<50%	Passed
KIF-NEMBAY_7J2-SED-102011-B	7J2	Y	10/20/2011	<50%	<50%	Passed
KIF-NEMBAY_7J3-SED-102011-B	7J3	Y	10/20/2011	<50%	<50%	Passed
KIF-NEMBAY_7J4-SED-102011-B	7J4	Y	10/20/2011	<50%	<50%	Passed
KIF-NEMBAY_7G1-SED-102411-B	7G1	Y	10/24/2011	<50%	<50%	Passed
KIF-NEMBAY_7G4-SED-102411-B	7G4	Y	10/24/2011	<50%	<50%	Passed
KIF-NEMBAY_7H1-SED-102411-B	7H1	Y	10/24/2011	<50%	<50%	Passed
KIF-NEMBAY_7H2-SED-102411-B	7H2	Y	10/24/2011	<50%	<50%	Passed
KIF-NEMBAY_7H3-SED-102411-B	7H3	Y	10/24/2011	>50%	N/A	Failed
KIF-NEMBAY_7H3_A-SED-102411-B	7H3	Y	10/24/2011	<50%	<50%	Passed
KIF-NEMBAY_7H4-SED-102411-B	7H4	Y	10/24/2011	<50%	<50%	Passed
KIF-NEMBAY_7K1-SED-102611-B	7K1	Y	10/26/2011	<50%	<50%	Passed
KIF-NEMBAY_7K2-SED-102611-B	7K2	Y	10/26/2011	<50%	<50%	Passed
KIF-NEMBAY_7K3-SED-102611-B	7K3	Y	10/26/2011	<50%	<50%	Passed
KIF-NEMBAY_7K4-SED-102611-B	7K4	Y	10/26/2011	<50%	<50%	Passed
KIF-NEMBAY_7H3-SED-102711-B	**7H3**	**Y**	**10/27/2011**	**<50%**	**<50%**	**Passed**
KIF-NEMBAY_7H3_A-SED-102711-B	**7H3**	**Y**	**10/27/2011**	**<50%**	**<50%**	**Passed**

Attachment 2

Polarized Light Microscopy Results from RJ Lee Laboratory EQuIS Database Summary Table

Attachment 2, Polarized Light Microscopy Results from RJ Lee Laboratory, EQuIS Summary Table

chain_of_custody	sys_loc_code	sample_name	sample_datetime	sample_type_code	start_depth	end_depth	depth_unit	field_matrix_code	analysis_location	lab_sample_id	lab_name_code	analytic_method	analysis_date	fraction	lab_sdg	test_id	chemical_name	report_result_text	report_result_value	report_result_unit	report_result_limit	reportable_result	detect_flag	lab_qualifiers	reporting_detection_limit	sample_reason	EDD_Status	sample_method	dilution_factor	result_remarks
NTCSED0825Y11B	NEMBAY_7L1	KIF-NEMBAY_7L1_A-SED-082511-B	8/25/2011	N	3	12	in	SED	LB	10165685	RJL	PLM	9/12/2011	N	TOH1009525-113	392408	% ASH	2	2	%	1	Y	Y		1	Investigatory	Final-Verified	GRAB	1	Orange-brown granular sediment
NTCSED0825Y11B	NEMBAY_7L2	KIF-NEMBAY_7L2-SED-082511-B	8/25/2011	N	0	12	in	SED	LB	10165682	RJL	PLM	9/9/2011	N	TOH1009525-113	392409	% ASH	< 1	1	%	1	Y	N	U	1	Investigatory	Final-Verified	GRAB	1	Orange-brown granular sediment
NTCSED0825Y11B	NEMBAY_7L3	KIF-NEMBAY_7L3-SED-082511-B	8/25/2011	N	0	12	in	SED	LB	10165679	RJL	PLM	9/12/2011	N	TOH1009525-113	392410	% ASH	< 1	1	%	1	Y	N	U	1	Investigatory	Final-Verified	GRAB	1	Orange-brown granular sediment
NTCSED0825Y11B	NEMBAY_7L4	KIF-NEMBAY_7L4-SED-082511-B	8/25/2011	N	0	12	in	SED	LB	10165680	RJL	PLM	9/12/2011	N	TOH1009525-113	392411	% ASH	1	1	%	1	Y	Y		1	Investigatory	Final-Verified	GRAB	1	Orange-brown granular sediment
NTCSED0830Y11B	NEMBAY_7L1	KIF-NEMBAY_7L1-SED-083011-B	8/30/2011	N	0	12	in	SED	LB	10165707	RJL	PLM	9/9/2011	N	TOH1009525-115	392429	% ASH	1	1	%	1	Y	Y		1	Investigatory	Final-Verified	GRAB	1	Orange-brown granular sediment
NTCSED1027Y11B	NEMBAY_7H3	KIF-NEMBAY_7H3_A-SED-102711-B	10/27/2011	N	4	12	in	SED	LB	10173374	RJL	PLM	11/3/2011	N	TOH1009525-139	407303	% ASH	< 1	1	%	1	Y	N	U	1	Investigatory	Final-Verified	GRAB	1	Tan hard sediment.
NTCSED1027Y11B	NEMBAY_7H3	KIF-NEMBAY_7H3-SED-102711-B	10/27/2011	N	0	4	in	SED	LB	10173373	RJL	PLM	11/3/2011	N	TOH1009525-139	407304	% ASH	12	12	%	1	Y	Y		1	Investigatory	Final-Verified	GRAB	1	Brown granular sediment.
NTCSED1026Y11B	NEMBAY_7K1	KIF-NEMBAY_7K1-SED-102611-B	10/26/2011	N	0	12	in	SED	LB	10173026	RJL	PLM	11/2/2011	N	TOH1009525-136	407306	% ASH	1	1	%	1	Y	Y		1	Investigatory	Final-Verified	GRAB	1	Brown granular sediment.
NTCSED1026Y11B	NEMBAY_7K2	KIF-NEMBAY_7K2-SED-102611-B	10/26/2011	N	0	12	in	SED	LB	10173027	RJL	PLM	11/2/2011	N	TOH1009525-136	407307	% ASH	4	4	%	1	Y	Y		1	Investigatory	Final-Verified	GRAB	1	Black granular sediment.
NTCSED1026Y11B	NEMBAY_7K3	KIF-NEMBAY_7K3_A-SED-102611-B	10/26/2011	N	6	12	in	SED	LB	10173030	RJL	PLM	11/2/2011	N	TOH1009525-136	407308	% ASH	1	1	%	1	Y	Y		1	Investigatory	Final-Verified	GRAB	1	Tan granular sediment.
NTCSED1026Y11B	NEMBAY_7K3	KIF-NEMBAY_7K3-SED-102611-B	10/26/2011	N	0	6	in	SED	LB	10173028	RJL	PLM	11/2/2011	N	TOH1009525-136	407309	% ASH	44	44	%	1	Y	Y		1	Investigatory	Final-Verified	GRAB	1	Brown granular sediment.
NTCSED1026Y11B	NEMBAY_7K4	KIF-NEMBAY_7K4-SED-102611-B	10/26/2011	N	0	12	in	SED	LB	10173029	RJL	PLM	11/2/2011	N	TOH1009525-136	407310	% ASH	< 1	1	%	1	Y	N	U	1	Investigatory	Final-Verified	GRAB	1	Red tan granular sediment.
NTCSED1024Y11B	NEMBAY_7G1	KIF-NEMBAY_7G1-SED-102411-B	10/24/2011	N	0	12	in	SED	LB	10172796	RJL	PLM	10/31/2011	N	TOH1009525-134	411009	% ASH	2	2	%	1	Y	Y		1		Draft	GRAB	1	Red tan granular sediment.
NTCSED1024Y11B	NEMBAY_7G4	KIF-NEMBAY_7G4-SED-102411-B	10/24/2011	N	0	12	in	SED	LB	10172795	RJL	PLM	11/1/2011	N	TOH1009525-134	411010	% ASH	< 1	1	%	1	Y	N	U	1		Draft	GRAB	1	Red tan granular sediment.
NTCSED1024Y11B	NEMBAY_7H1	KIF-NEMBAY_7H1-SED-102411-B	10/24/2011	N	0	12	in	SED	LB	10172793	RJL	PLM	11/1/2011	N	TOH1009525-134	411011	% ASH	1	1	%	1	Y	Y		1		Draft	GRAB	1	Hard gray sediment.
NTCSED1024Y11B	NEMBAY_7H2	KIF-NEMBAY_7H2-SED-102411-B	10/24/2011	N	0	12	in	SED	LB	10172794	RJL	PLM	11/1/2011	N	TOH1009525-134	411012	% ASH	< 1	1	%	1	Y	N	U	1		Draft	GRAB	1	Hard tan sediment.
NTCSED1024Y11B	NEMBAY_7H2	QC_KIF-NEMBAY_7H2-SED-102411-B	10/24/2011	LR	0	12	in	SED	LB	10172799	RJL	PLM	11/1/2011	N	TOH1009525-134	411013	% ASH	< 1	1	%	1	Y	N	U	1		Draft		1	Hard tan sediment.
NTCSED1024Y11B	NEMBAY_7H3	KIF-NEMBAY_7H3_A-SED-102411-B	10/24/2011	N	6	12	in	SED	LB	10172791	RJL	PLM	11/1/2011	N	TOH1009525-134	411014	% ASH	< 1	1	%	1	Y	N	U	1		Draft	GRAB	1	Hard tan sediment.
NTCSED1024Y11B	NEMBAY_7H4	KIF-NEMBAY_7H4-SED-102411-B	10/24/2011	N	0	12	in	SED	LB	10172792	RJL	PLM	11/1/2011	N	TOH1009525-134	411015	% ASH	4	4	%	1	Y	Y		1		Draft	GRAB	1	Tan sediment.
NTCSED1020Y11B	NEMBAY_7J1	KIF-NEMBAY_7J1-SED-102011-B	10/20/2011	N	0	12	in	SED	LB	10172779	RJL	PLM	10/31/2011	N	TOH1009525-133	411202	% ASH	5	5	%	1	Y	Y		1		Draft	GRAB	1	Dark brown granular sediment.
NTCSED1020Y11B	NEMBAY_7J2	KIF-NEMBAY_7J2-AED-102011-B	10/20/2011	FD	0	12	in	SED	LB	10172781	RJL	PLM	10/31/2011	N	TOH1009525-133	411203	% ASH	1	1	%	1	Y	Y		1		Draft	GRAB	1	Gray hard sediment.
NTCSED1020Y11B	NEMBAY_7J2	KIF-NEMBAY_7J2-SED-102011-B	10/20/2011	N	0	12	in	SED	LB	10172780	RJL	PLM	10/31/2011	N	TOH1009525-133	411204	% ASH	< 1	1	%	1	Y	N	U	1		Draft	GRAB	1	Gray hard sediment.
NTCSED1020Y11B	NEMBAY_7J3	KIF-NEMBAY_7J3-SED-102011-B	10/20/2011	N	0	12	in	SED	LB	10172782	RJL	PLM	10/31/2011	N	TOH1009525-133	411205	% ASH	2	2	%	1	Y	Y		1		Draft	GRAB	1	Tan hard sediment.
NTCSED1020Y11B	NEMBAY_7J4	KIF-NEMBAY_7J4-SED-102011-B	10/20/2011	N	0	12	in	SED	LB	10172783	RJL	PLM	10/31/2011	N	TOH1009525-133	411206	% ASH	2	2	%	1	Y	Y		1		Draft	GRAB	1	Red tan granular sediment.
NTCSED1020Y11B	NEMBAY_7J4	QC_KIF-NEMBAY_7J4-SED-102011-B	10/20/2011	LR	0	12	in	SED	LB	10172784	RJL	PLM	10/31/2011	N	TOH1009525-133	411207	% ASH	3	3	%	1	Y	Y		1		Draft		1	Red tan granular sediment.

Attachment 3

Daily Quality Assurance Reports

Kingston Ash Recovery Project (KRP)
Quality Assurance
Daily Report

REPORT DATE & DAY OF WEEK: 10-25-2011

ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK REQUIREMENTS (Safety, SOP, Work Package, QC Plan , Drawings and Specifications, Removal Action Work Plan, etc.): (Identify activities by Contractor and area)

Activities in compliance with work plans.

North Embayment- RSI geo-probed 3 Middle Embayment points, 8-A4, 9-B1, and 8-C1; Surveyors shot the collar elevations for all three points; 3 North Embayment points showed >50% ash, 7-B3, 7-H3, and 7-A2; Civil Projects is aware of these failing locations.

MATERIAL / EQUIPMENT RECEIPT INSPECTION: Receipt Form Completed (Reference RIR #)?

N/A

NONCONFORMING WORK: (Identify by Contractor and area). NCR Issued (Reference NCR #)?

N/A

SORs (SAFETY OBSERVATION REPORTS): None

QA ISSUES: (Specify if assistance is needed to resolve issue)

None on this date

PLANNED ACTIVITIES (Identify activities by Contractor and area)

Continue to excavate ash and sample as requested by CP

SHOP INSPECTIONS: N/A

DOCUMENT REVIEWS: (SOPs, Work Package, QC Plan, Drawings and Specifications, Removal Action Work Plan, etc)

N/A

SUBMITTED BY: Walter R. Burns **DATE: 10-25-11**

[Type text]

Kingston Ash Recovery Project (KRP)
Quality Assurance
Daily Report

REPORT DATE & DAY OF WEEK: 10-22-2011

ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK REQUIREMENTS (Safety, SOP, Work Package, QC Plan , Drawings and Specifications, Removal Action Work Plan, etc.): (Identify activities by Contractor and area)

Activities in compliance with work plans.

North Embayment- Observed and documented rock and ash removal in grid 7-K; 43 tandem truck loads of ash were removed from underneath pump pad; Ash was then hauled on Swan Pd rd. and then dumped into the exclusion zone from the MAPP asphalt pad; Trucks did not enter the exclusion zone.

* 42 truck loads hauled today

* Ash Removal was completed by 14:50

MATERIAL / EQUIPMENT RECEIPT INSPECTION: Receipt Form Completed (Reference RIR #)?

N/A

NONCONFORMING WORK: (Identify by Contractor and area). NCR Issued (Reference NCR #)?

N/A

SORs (SAFETY OBSERVATION REPORTS): None

QA ISSUES: (Specify if assistance is needed to resolve issue)

None on this date

PLANNED ACTIVITIES (Identify activities by Contractor and area)

Continue to excavate ash and sample as requested by CP

SHOP INSPECTIONS: N/A

DOCUMENT REVIEWS: (SOPs, Work Package, QC Plan, Drawings and Specifications, Removal Action Work Plan, etc)

N/A

SUBMITTED BY: Walter R. Burns **DATE: 10-22-11**

[Type text]

Kingston Ash Recovery Project (KRP)
Quality Assurance
Daily Report

REPORT DATE & DAY OF WEEK: 10-21-2011

ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK REQUIREMENTS (Safety, SOP, Work Package, QC Plan , Drawings and Specifications, Removal Action Work Plan, etc.): (Identify activities by Contractor and area)

Activities in compliance with work plans.

North Embayment- Observed and documented rock and ash removal in grid 7-K; 4 tandem truck loads of ash were removed from underneath pump pad; Ash was then hauled on Swan Pond rd. and then dumped into the exclusion zone from the MAPP asphalt pad; Trucks did not enter the exclusion zone; Photos 1663-1669 show clean areas, 1670-1678 show a 2'-3' ash seam under rock pad

MATERIAL / EQUIPMENT RECEIPT INSPECTION: Receipt Form Completed (Reference RIR #)?

N/A

NONCONFORMING WORK: (Identify by Contractor and area). NCR Issued (Reference NCR #)?

N/A

SORs (SAFETY OBSERVATION REPORTS): None

QA ISSUES: (Specify if assistance is needed to resolve issue)

None on this date

PLANNED ACTIVITIES (Identify activities by Contractor and area)

Continue to excavate ash and sample as requested by CP

SHOP INSPECTIONS: N/A

DOCUMENT REVIEWS: (SOPs, Work Package, QC Plan, Drawings and Specifications, Removal Action Work Plan, etc)

N/A

SUBMITTED BY: Walter R. Burns **DATE: 10-21-11**

[Type text]

Kingston Ash Recovery Project (KRP)
Quality Assurance
Daily Report

REPORT DATE & DAY OF WEEK: 10-12-2011

ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK REQUIREMENTS (Safety, SOP, Work Package, QC Plan , Drawings and Specifications, Removal Action Work Plan, etc.): (Identify activities by Contractor and area)

Activities in compliance with work plans.

North Embayment- Observed and documented North Embayment excavations; RSI was released to sample 7-J and 7-H; RSI sampled 6-H today; 6-H appears to be <50% ash; Requested PLM data from P. Lee

*Conditions are damp and muddy in the North Embayment

MATERIAL / EQUIPMENT RECEIPT INSPECTION: Receipt Form Completed (Reference RIR #)?

N/A

NONCONFORMING WORK: (Identify by Contractor and area). NCR Issued (Reference NCR #)?

N/A

SORs (SAFETY OBSERVATION REPORTS): None

QA ISSUES: (Specify if assistance is needed to resolve issue)

None on this date

PLANNED ACTIVITIES (Identify activities by Contractor and area)

Continue to excavate ash and sample as requested by CP

SHOP INSPECTIONS: N/A

DOCUMENT REVIEWS: (SOPs, Work Package, QC Plan, Drawings and Specifications, Removal Action Work Plan, etc)

N/A

SUBMITTED BY: Walter R. Burns **DATE: 10-12-11**

[Type text]

Kingston Ash Recovery Project (KRP)
Quality Assurance
Daily Report

REPORT DATE & DAY OF WEEK: 10-26-2011

ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK REQUIREMENTS (Safety, SOP, Work Package, QC Plan , Drawings and Specifications, Removal Action Work Plan, etc.): (Identify activities by Contractor and area)

Activities in compliance with work plans.

North Embayment- Observed and documented ash removal; RSI sampled 7-K, 4-A2, 5 PLM samples collected today

Middle Embayment- Surveyors shot three collar elevations

MATERIAL / EQUIPMENT RECEIPT INSPECTION: Receipt Form Completed (Reference RIR #)?

N/A

NONCONFORMING WORK: (Identify by Contractor and area). NCR Issued (Reference NCR #)?

N/A

SORs (SAFETY OBSERVATION REPORTS): None

QA ISSUES: (Specify if assistance is needed to resolve issue)

None on this date

PLANNED ACTIVITIES (Identify activities by Contractor and area)

Continue to excavate ash and sample as requested by CP

SHOP INSPECTIONS: N/A

DOCUMENT REVIEWS: (SOPs, Work Package, QC Plan, Drawings and Specifications, Removal Action Work Plan, etc)

N/A

SUBMITTED BY: Walter R. Burns **DATE: 10-26-11**

[Type text]

Kingston Ash Recovery Project (KRP)
Quality Assurance
Daily Report

REPORT DATE & DAY OF WEEK: 11-22-2011

ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK REQUIREMENTS (Safety, SOP, Work Package, QC Plan , Drawings and Specifications, Removal Action Work Plan, etc.): (Identify activities by Contractor and area)

Activities in compliance with work plans.

North Embayment- Observed and documented the construction of a reverse filter located @ the toe of Swan Pond Circle. Ash removal was completed today; photos 11764-67 show the end of the ash removal

MATERIAL / EQUIPMENT RECEIPT INSPECTION: Receipt Form Completed (Reference RIR #)?

N/A

NONCONFORMING WORK: (Identify by Contractor and area). NCR Issued (Reference NCR #)?

N/A

SORs (SAFETY OBSERVATION REPORTS): None

QA ISSUES: (Specify if assistance is needed to resolve issue)

No QA issues

PLANNED ACTIVITIES (Identify activities by Contractor and area)

Continue to excavate ash and sample as requested by CP

SHOP INSPECTIONS: N/A

DOCUMENT REVIEWS: (SOPs, Work Package, QC Plan, Drawings and Specifications, Removal Action Work Plan, etc)

N/A

SUBMITTED BY: Walter R. Burns **DATE: 11-22-11**

[Type text]

Kingston Ash Recovery Project (KRP)
Quality Assurance
Daily Report

REPORT DATE & DAY OF WEEK: 11-28-2011

ACTIVITIES OBSERVED IN CONFORMANCE WITH WORK REQUIREMENTS (Safety, SOP, Work Package, QC Plan , Drawings and Specifications, Removal Action Work Plan, etc.): (Identify activities by Contractor and area)

Activities in compliance with work plans.

North Embayment- Observed and documented the construction of a reverse filter located @ the toe of Swan Pond Circle. Construction was completed @ 15:00 today; Ash was removed prior to filter installation.

MATERIAL / EQUIPMENT RECEIPT INSPECTION: Receipt Form Completed (Reference RIR #)?

N/A

NONCONFORMING WORK: (Identify by Contractor and area). NCR Issued (Reference NCR #)?

N/A

SORs (SAFETY OBSERVATION REPORTS): None

QA ISSUES: (Specify if assistance is needed to resolve issue)

No QA issues

PLANNED ACTIVITIES (Identify activities by Contractor and area)

Continue to excavate ash and sample as requested by CP

SHOP INSPECTIONS: N/A

DOCUMENT REVIEWS: (SOPs, Work Package, QC Plan, Drawings and Specifications, Removal Action Work Plan, etc)

N/A

SUBMITTED BY: Walter R. Burns **DATE: 11-28-11**

[Type text]

Attachment 4

RSI Sampling Field Log Reports

JACOBS

Date: 10/26/2011 Weather: Sunny, 75 deg F

North Embayment

Crew: Greg Schwartz, Eddie Arnold, Steve Bunkley (All RSI)

Core #	Core Coordinates		Time	Core Description	Interval (in)	Ash	TVA Field PLM Laboratory Results	Lab Method
NEMBAY_4A2	N:	E:	855	Silty clay loam fill	0.0-14.5	<50%	KM-NE-1057-06 Visual: Brown soil.	Visual
KIF-NEMBAY_4A2-SED-102611- A&B								
				Total Depth	14.5			
Core #	Core Coordinates		Time	Core Description	Interval (in)	<50%	KM-NE-1057-03	
NEMBAY_7K3	N:	E:	1405	Orange clay fill w/ ash	0.0-6.0		Visual: Brown soil.	Visual
KIF-NEMBAY_7K3-SED-102611- A&B								
KIF-NEMBAY_7K3_A-SED-102611- A&B				Clay w/ silt fill	6.0-14.0	<50%	KM-NE-1057-05	
							Visual: Brown clay.	
				Total Depth	14.0			
Core #	Core Coordinates		Time	Core Description	Interval (in)		KM-NE-1057-01	
NEMBAY_7K1	N:	E:	1420	Silty clay	0.0-22.5	<50%	Visual: Dark brown soil.	Visual
KIF-NEMBAY_7K1-SED-102611- A&B								
				Total Depth	22.5			
Core #	Core Coordinates		Time	Core Description	Interval (in)		KM-NE-1057-04	
NEMBAY_7K4	N:	E:	1435	Orange clay fill w/ ash	0.0-24.0	<50%	Visual: Reddish brown soil.	Visual
KIF-NEMBAY_7K4-SED-102611- A&B								
				Total Depth	24.0			
Core #	Core Coordinates		Time	Core Description	Interval (in)		KM-NE-1057-02	
NEMBAY_7K2	N:	E:	1435	Brown silt w/ trace ash	0.0-19.0	<50%	Visual: Black sediment. PLM: There are some ash.	PLM
KIF-NEMBAY_7K2-SED-102611- A&B								
				Total Depth	19.0			

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Date: 10/24/2011 Weather: Sunny 73*F

North Embayment

Crew: Greg Schwartz, Ed Arnold, Russ Vance, Steve Bunkely (All RSI)

Core #	Core Coordinates		Time	Core Description	Interval (in)	TVA Field PLM Laboratory Results	Lab Method
NEMBAY_7A2	N:	E:	935	Orange clay fill	0.0-8.0	7A2 Brown soil.	Visual
Sample ID: KIF_NEMBAY_7A2-SED-102411-A & B				Ash	8.0-12.5	7A2_A There are lots of ash.	PLM
KIF_NEMBAY_7A2_A-SED-102411-A & B							
				Total Depth	12.5		
Core #	Core Coordinates		Time	Core Description	Interval (in)		
NEMBAY_7A1	N:	E:	950	Orange and brown loam fill	0.0-21.0		
Sample ID: KIF_NEMBAY_7A1-SED-102411-A & B							
KIF_NEMBAY_7A1-AED-102411-A & B							
				Total Depth	21		
Core #	Core Coordinates		Time	Core Description	Interval (in)		
NEMBAY_7A4	N:	E:	1055	Orange clay fill w/ streaks of ash and fine sand	0.0-14.0		
Sample ID: KIF_NEMBAY_7A4-SED-102411-A & B							
				Total Depth	14		
Core #	Core Coordinates		Time	Core Description	Interval (in)		
NEMBAY_7B3	N:	E:	1110	Ash	0.0-4.0		
Sample ID: KIF_NEMBAY_7B3-SED-102411-A & B				Clay fill with trace ash	4.0-17.0		
KIF_NEMBAY_7B3_A-SED-102411-A & B							
				Total Depth	17		
Core #	Core Coordinates		Time	Core Description	Interval (in)		
NEMBAY_6G4	N:	E:	1335	Orange clay fill	0.0-20.0		
Sample ID: KIF_NEMBAY_6G4-SED-102411-A & B							
KIF-NEMBAY_6G4-AED-102411-B							
				Total Depth	20		
Core #	Core Coordinates		Time	Core Description	Interval (in)		
NEMBAY_6G1	N:	E:	1340	Orange clay fill	0.0-14.0		
Sample ID: KIF_NEMBAY_6G1-SED-102411-A & B							
				Total Depth	14		
Core #	Core Coordinates		Time	Core Description	Interval (in)		
NEMBAY_7H3	N:	E:	1405	Gray clay and ash	0.0-6.0		
Sample ID: KIF-NEMBAY_7H3-SED-102411-A & B				Orange silty clay fil	6.0-13.0		
KIF-NEMBAY_7H3_A-SED-102411-A & B							
				Total Depth			
Core #	Core Coordinates		Time	Core Description	Interval (in)		
NEMBAY_7H4	N:	E:	1425	Silty clay loam w/ ash	0.0-12.0		
Sample ID: KIF_NEMBAY_7H4-SED-102411-A & B							
				Total Depth	12		
Core #	Core Coordinates		Time	Core Description	Interval (in)		
NEMBAY_7H1	N:	E:	1430	Clay fill w/ native fines	0-18		
Sample ID: KIF_NEMBAY_7H1-SED-102411-A & B							
				Total Depth	18		
Core #	Core Coordinates		Time	Core Description	Interval (in)		
NEMBAY_7H2	N:	E:	1440	Residual shale and silt	0.0-16.0		
Sample ID: KIF_NEMBAY_7H2-SED-102411-A & B							
				Total Depth	16		
Core #	Core Coordinates		Time	Core Description	Interval (in)		
NEMBAY_7G4	N:	E:	1445	Orange clay fill	0.0-22.0		
Sample ID: KIF_NEMBAY_7G4-SED-102411-A & B							
				Total Depth	22		
Core #	Core Coordinates		Time	Core Description	Interval (in)		
NEMBAY_7G1	N:	E:	1440	Orange clay fill w/ trace ash	0.0-18.0		
Sample ID: KIF_NEMBAY_7G1-SED-102411-A & B							
				Total Depth	18		

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Date: 10/17/2011 Weather: Cloudy, 82 deg F

North Embayment

Crew: Greg Schwartz, Eddie Arnold, Steve Bunkley, Russ Vance (All RSI)

Core #	Core Coordinates	Time	Core Description	Interval (in)	Ash	TVA Field PLM Laboratory Results	Lab Method
NEMBAY_6A2	N: 559240.46 E: 2440337.15	1100	Clay loam w/ shot and fines	0.0-17.0			
Sample ID: KIF-NEMBAY_6A2-SED-102011-A & B							
			Total Depth	17			
Core #	Core Coordinates	Time	Core Description	Interval (in)			
NEMBAY_7J1	N: E:	1315	Brown silt loam fill w/ organics	0.0-18.0			
Sample ID: KIF-NEMBAY_7J1-SED-102011-A & B							
			Total Depth	18			
Core #	Core Coordinates	Time	Core Description	Interval (in)			
NEMBAY_7J2	N: E:	1330	Gray clay & silt loam fill	0.0-15.0			
Sample ID: KIF-NEMBAY_7J2-SED-102011-A & B, KIF-NEMBAY_7J2-AED-102011-B							
			Total Depth	15.0			
Core #	Core Coordinates	Time	Core Description	Interval (in)			
NEMBAY_7J3	N: E:	1345	Brown silty loam fill	0.0-13.0			
Sample ID: KIF-NEMBAY_7J3-SED-102011-A & B			Gray and brown shale	13.0-17.0			
			Total Depth	17.0			
Core #	Core Coordinates	Time	Core Description	Interval (in)			
NEMBAY_7J4	N: E:	1355	Red and brown clay fill	0.0-18.0			
Sample ID: KIF-NEMBAY_7J4-SED-102011-A & B							
			Total Depth	18.0			

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Date: 08/30/2011 Weather: Mostly sunny, high 93°F North Embayment

Crew: Ramona Josefczyk, Liz Burton, Emma Hickey, Gib Frye, Josh Kerr (All RSI)

Core #	Core Coordinates	Time	Core Description	Interval (in)
NEMBAY_5L1	N: 559409.45 E: 2439477.85	940	brown clay with silts mixed with fresh organics and some ash	0-12
Sample ID: KIF_NEMBAY_5F1-SED-083011-A & B			highly organic (strong odor) brown loam	12-18
			Total Depth	18

Core #	Core Coordinates	Time	Core Description	Interval (in)
NEMBAY_5L2	N: 559413.21 E: 2439577.78	950	brown silty clay with minor organics and trace ash	0-12
Sample ID: KIF_NEMBAY_5L2-SED-083011-A & B			brownish grey sand with trace amounts of ash	12-17
			Total Depth	17

Core #	Core Coordinates	Time	Core Description	Interval (in)
NEMBAY_5L3	N: 559313.28 E: 2439581.55	1003	grey ash with silt and clay intermixed	0-5
Sample ID: KIF_NEMBAY_5L3-SED-083011-A & B, KIF_NEMBAY_5L3_A-SED-083011-A & B			brown clays with silts and no visible ash	5-12
			brown sandy loam to sand	12-19
			Total Depth	19

Core #	Core Coordinates	Time	Core Description	Interval (in)
NEMBAY_7L1	N: 558620.71 E: 2439587.34	1018	red clay and silt fill (dry and crumbly consistency) no visible ash	0-12
Sample ID: KIF_NEMBAY_7L1-SED-083011-A & B			mixed red clay and silt mixed with ash	12-16
			Total Depth	16

Core #	Core Coordinates	Time	Core Description	Interval (in)
NEMBAY_6E2	N: 559213.35 E: 2439585.31	1423	grey sands mixed with some ash	0-2
Sample ID: KIF_NEMBAY_6E3-SED-083011-A & B, KIF_NEMBAY_6E3_A-SED-083011-A & B			brown silt loam high in organics with some ash	2-22
			Total Depth	22

Core #	Core Coordinates	Time	Core Description	Interval (in)
NEMBAY_5L4	N: 559309.52 E: 2439481.62	1445	grey silt loam mixed with a very thin dry lens of ash on top	0-15
Sample ID: KIF_NEMBAY_5L4-SED-083011-A & B				
			Total Depth	24

Core #	Core Coordinates	Time	Core Description	Interval (in)
NEMBAY_3F2	N: 560206.95 E: 2439728.32	1519	red clay and silt with no visible ash	0-22
Sample ID: KIF_NEMBAY_3F2-SED-083011-A & B				
			Total Depth	22

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Date: 08/25/2011 Weather: Mostly sunny, high 88°F, winds N5mph

North Embayment

Crew: Ramona Josefczyk, Liz Burton, Mark Greer, Gib Frye, Josh Kerr (All RSI)

Core #	Core Coordinates	Time	Core Description	Interval (in)		TVA Field PLM Laboratory Results	Lab Method
NEMBAY_7L3	N: 558514.88 E: 2439644.9	916	brown loamy fill with small lens of ash grading into weathered shale	0-17			Visual
Sample ID: KIF_NEMBAY_7L3-SED-082511-A & B			red fat/stiff clay	17-25			
			Total Depth	25			
Core #	Core Coordinates	Time	Core Description	Interval (in)			
NEMBAY_7L4	N: 558526.98 E: 2439621.38	925	mix of fill (clays, sands, silts, and weathered material)	0-24			Visual
Sample ID: KIF_NEMBAY_7L4-SED-082511-A & B							
			Total Depth	24			
Core #	Core Coordinates	Time	Core Description	Interval (in)			
NEMBAY_7E2	N: 558816.76 E: 2439617.75	936	grey silty sand with <50% ash	0-13			Visual
Sample ID: KIF_NEMBAY_7E2-SED-082511-A & B			tan sandy clay loam with red and grey mottles	13-21			
			Total Depth	21			
Core #	Core Coordinates	Time	Core Description	Interval (in)			
NEMBAY_7L2	N: 558622.72 E: 2439640.84	946	red clay with sand fill - no visible ash	0-11			Visual
Sample ID: KIF_NEMBAY_7L2-SED-082511-A & B Refusal met							
			Total Depth	11			
Core #	Core Coordinates	Time	Core Description	Interval (in)			
NEMBAY_7E3	N: 558716.83 E: 2439621.52	949	light grey sand with silt and a small amount of chert	0-18			Visual
Sample ID: KIF_NEMBAY_7E3-SED-082511-A & B							
			Total Depth	18			
Core #	Core Coordinates	Time	Core Description	Interval (in)			
NEMBAY_7E4	N: 558714.81 E: 2439568.02	957	red loam to clay loam with medium grained sands, few chert fragments, Iron concentrations, and brown mottling	0-18			Visual
Sample ID: KIF_NEMBAY_7E4-SED-082511-A & B							
			Total Depth				
Core #	Core Coordinates	Time	Core Description	Interval (in)			
NEMBAY_7L1	N: 558620.71 E: 2439587.34	1000	>50% ash	0-3			Visual
Sample ID: KIF_NEMBAY_7L1-SED-082511-A & B, KIF_NEMBAY_7L1_A-SED-082511-A & B			red clay loam with chert fragments	3-23			
			Total Depth	23			
Core #	Core Coordinates	Time	Core Description	Interval (in)			
NEMBAY_6L2	N: 559014.97 E: 2439596.66	1400	>50% ash mixed with dark grey silts	0-2			Visual
Sample ID: KIF_NEMBAY_6L2-SED-082511-A & B, KIF_NEMBAY_6L2_A-SED-082511-A & B			light grey clays and silts grading into coarser material	2-10			
			Sandy silts grading into coarse sands and gravels	10-17			
			Total Depth	17			
Core #	Core Coordinates	Time	Core Description	Interval (in)			
NEMBAY_5M1	N: 559401.92 E: 2439277.99	1419	red brown fill mixed with lens of ash	0-12			Visual
Sample ID: KIF_NEMBAY_5M1-SED-082511-A & B			brownish grey fat clay with minor organics	12-18			
			Total Depth	18			
Core #	Core Coordinates	Time	Core Description	Interval (in)			
NEMBAY_5M2	N: 559405.68 E: 2439377.92	1431	Dark brown clays and silts with major organics	0-12			Visual
Sample ID: KIF_NEMBAY_5M2-SED-082511-A & B							
			Total Depth	12			

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Date: 10/27/2011 Weather: Cloudy, 64 deg F

Crew: Greg Schwartz, Eddie Arnold, Russ Vance (All RSI)

North Embayment

Core #	Core Coordinates	Time	Core Description	Interval (in)	Ash	TVA Field PLM Laboratory Results	Lab Method
NEMBAY_7A2	N: 558840.67 E: 2440379.35	1210	Silty clay loam fill	0.0-21.0	<50%	KM-NE-1058-01 Visual: Light brown soil.	Visual
KIF-NEMBAY_7A2-SED-102711- A & B							
			Total Depth	21.0			
Core #	Core Coordinates	Time	Core Description	Interval (in)			
NEMBAY_7B3	N: E:	1435	Weathered shale and clay	0.0-14.5			
KIF-NEMBAY_7B3-SED-102711- A & B							
			Total Depth	14.5			
Core #	Core Coordinates	Time	Core Description	Interval (in)			
NEMBAY_7H3	N: E:	1500	Fill with ash	0.0-4.0			
KIF-NEMBAY_7H3-SED-102711- A&B			Silty clay loam fill	4.0-17.5			
KIF-NEMBAY_7H3_A-SED-102711- A&B							
			Total Depth	17.5-0.0			

Figure 1

North Embayment Grids - Cleared

North Embayment Sampling - Cleared Grids - Concurrence #8

1 RJ LEE SAMPLE RESULTS SATISFACTORY

1 KRP SAMPLE RESULTS SATISFACTORY / RJ LEE RESULTS PENDING

1 SAMPLE RESULTS UNSATISFACTORY

1 TO BE SAMPLED

CONCURRENCE BOUNDARY

N

0 75 150 300

SCALE IN FEET

JACOBS™

11/30/11

Figure 1

Figure 2

Area Photo Log and Representative Photos

FIELD PHOTOGRAPHY LOG

Kingston Ash Recovery Project

Photographer	Image ID	Date	Time	Event	Orientation (N,S,E,W)	Latitude DD.MM.MMM	Longitude DD.MM.MMM	Location/Detailed Description Weather Conditions, GPS locations, Names of individuals in photo, Approx. time of day, specific equipment and activity
Walter Burns	R0011375	11/04/2011		North Embayment	SW	84.513142	35.917306	Seep along Swan Pond Road
Walter Burns	R0011376	11/04/2011		North Embayment	SW	84.513142	35.917306	Seep along Swan Pond Road
Walter Burns	R0011377	11/04/2011		North Embayment	W	84.513142	35.917306	Seep along Swan Pond Road
Walter Burns	R0011378	11/04/2011		North Embayment	SW	84.513142	35.917306	Seep along Swan Pond Road
Walter Burns	R0011379	11/04/2011		North Embayment	NW	84.513142	35.917306	Seep along Swan Pond Road
Walter Burns	R0011380	11/04/2011		North Embayment	SW	84.513142	35.917306	Seep along Swan Pond Road
Walter Burns	R0011381	11/04/2011		North Embayment	SW	84.513142	35.917306	Seep along Swan Pond Road
Walter Burns	R0011558	09/26/2011		North Embayment	SE	84.513142	35.917306	Preparing Swan Pond circle for riprap placement
Walter Burns	R0011559	09/26/2011		North Embayment	SE	84.513142	35.917306	Preparing Swan Pond circle for riprap placement
Walter Burns	R0011560	09/26/2011		North Embayment	SE	84.513142	35.917306	Preparing Swan Pond circle for riprap placement
Walter Burns	R0011561	09/26/2011		North Embayment	SE	84.513142	35.917306	Preparing Swan Pond circle for riprap placement
Walter Burns	R0011562	09/27/2011		North Embayment	S	84.513142	35.917306	Preparing Swan Pond circle for riprap placement
Walter Burns	R0011563	09/27/2011		North Embayment	SE	84.513142	35.917306	Preparing Swan Pond circle for riprap placement
Walter Burns	R0011564	09/27/2011		North Embayment	SE	84.513142	35.917306	Preparing Swan Pond circle for riprap placement
Walter Burns	R0011565	09/27/2011		North Embayment	SE	84.513142	35.917306	Preparing Swan Pond circle for riprap placement
Walter Burns	R0011590	09/27/2011		North Embayment	SE	84.513142	35.917306	Preparing Swan Pond circle for riprap placement
Walter Burns	R0011591	09/27/2011		North Embayment	SE	84.513142	35.917306	Preparing Swan Pond circle for riprap placement
Walter Burns	R0011592	09/28/2011		North Embayment	S	84.513142	35.917306	Preparing Swan Pond circle for riprap placement
Walter Burns	R0011593	09/28/2011		North Embayment	S	84.513142	35.917306	Preparing Swan Pond circle for riprap placement
Walter Burns	R0011594	09/28/2011		North Embayment	SE	84.513142	35.917306	Preparing Swan Pond circle for riprap placement
Walter Burns	R0011595	09/28/2011		North Embayment	SE	84.513142	35.917306	Preparing Swan Pond circle for riprap placement
Walter Burns	R0011596	09/28/2011		North Embayment	SE	84.513142	35.917306	Preparing Swan Pond circle for riprap placement
Walter Burns	R0011597	09/28/2011		North Embayment	SE	84.513142	35.917306	Preparing Swan Pond circle for riprap placement
Walter Burns	R0011598	09/28/2011		North Embayment	SE	84.513142	35.917306	Preparing Swan Pond circle for riprap placement
Walter Burns	R0011599	09/28/2011		North Embayment	S	84.513142	35.917306	Preparing Swan Pond circle for riprap placement
Walter Burns	R0011600	09/28/2011		North Embayment	SE	84.513142	35.917306	Preparing Swan Pond circle for riprap placement
Walter Burns	R0011601	09/28/2011		North Embayment	SE	84.513142	35.917306	Preparing Swan Pond circle for riprap placement
Walter Burns	R0011602	09/28/2011		North Embayment	SE	84.513142	35.917306	Preparing Swan Pond circle for riprap placement
Walter Burns	R0011603	09/28/2011		North Embayment	SE	84.513142	35.917306	Preparing Swan Pond circle for riprap placement
Walter Burns	R0011604	09/28/2011		North Embayment	SE	84.513142	35.917306	Preparing Swan Pond circle for riprap placement
Walter Burns	R0011605	09/29/2011		North Embayment	SE	84.513142	35.917306	Preparing Swan Pond circle for riprap placement
Walter Burns	R0011606	09/29/2011		North Embayment	SE	84.513142	35.917306	Preparing Swan Pond circle for riprap placement
Walter Burns	R0011607	09/29/2011		North Embayment	SW	84.513142	35.917306	Riprap placed on Swan pond Circle
Walter Burns	R0011608	09/29/2011		North Embayment	S	84.513142	35.917306	Riprap placed on Swan pond Circle
Walter Burns	R0011609	09/29/2011		North Embayment	SE	84.513142	35.917306	Riprap placed on Swan pond Circle
Walter Burns	R0011610	09/29/2011		North Embayment	SE	84.513142	35.917306	Riprap placed on Swan pond Circle
Walter Burns	R0011622	10/04/2011		North Embayment	SE	84.513142	35.917306	Ash/Clay contact
Walter Burns	R0011623	10/04/2011		North Embayment	SE	84.513142	35.917306	Ash/Clay contact
Walter Burns	R0011627	10/04/2011		North Embayment	SE	84.513142	35.917306	Riprap placed on Swan pond Circle
Walter Burns	R0011628	10/04/2011		North Embayment	SE	84.513142	35.917306	Ash/Clay contact
Walter Burns	R0011629	10/04/2011		North Embayment	SE	84.513142	35.917306	Ash/Clay contact
Walter Burns	R0011648	10/21/2011		North Embayment	E	84.513142	35.917306	Ash Seeps along Swan Pond Circle
Walter Burns	R0011649	10/21/2011		North Embayment	E	84.513142	35.917306	Ash Seeps along Swan Pond Circle
Walter Burns	R0011650	10/21/2011		North Embayment	N	84.513142	35.917306	Ash Seeps along Swan Pond Circle
Walter Burns	R0011651	10/21/2011		North Embayment	N	84.513142	35.917306	Ash Seeps along Swan Pond Circle
Walter Burns	R0011652	10/21/2011		North Embayment	N	84.513142	35.917306	Ash Seeps along Swan Pond Circle
Walter Burns	R0011653	10/21/2011		North Embayment	NE	84.513142	35.917306	Ash Seeps along Swan Pond Circle
Walter Burns	R0011654	10/21/2011		North Embayment	N	84.513142	35.917306	Ash Seeps along Swan Pond Circle
Walter Burns	R0011655	10/21/2011		North Embayment	NE	84.513142	35.917306	Ash Seeps along Swan Pond Circle
Walter Burns	R0011674	10/21/2011		North Embayment	SE	84.513142	35.917306	Ash Removal from underneath pump pad
Walter Burns	R0011675	10/21/2011		North Embayment	E	84.513142	35.917306	Ash Removal from underneath pump pad
Walter Burns	R0011679	10/22/2011		North Embayment	SE	84.513142	35.917306	Ash Removal from underneath pump pad
Walter Burns	R0011680	10/22/2011		North Embayment	SE	84.513142	35.917306	Preparing Swan Pond circle for riprap placement
Walter Burns	R0011682	10/22/2011		North Embayment	NE	84.513142	35.917306	Preparing Swan Pond circle for riprap placement
Walter Burns	R0011750	11/21/2011		North Embayment	SW	84.513142	35.917306	Ash Seeps along Swan Pond Circle
Walter Burns	R0011751	11/21/2011		North Embayment	SW	84.513142	35.917306	Cleaning ash up along Swan Pond Circle
Walter Burns	R0011752	11/21/2011		North Embayment	SW	84.513142	35.917306	Cleaning ash up along Swan Pond Circle
Walter Burns	R0011753	11/21/2011		North Embayment	SW	84.513142	35.917306	Ash Removal for the Reverse filter
Walter Burns	R0011754	11/21/2011		North Embayment	SW	84.513142	35.917306	Ash Removal for the Reverse filter
Walter Burns	R0011755	11/21/2011		North Embayment	SW	84.513142	35.917306	Ash Removal for the Reverse filter
Walter Burns	R0011756	11/21/2011		North Embayment	SW	84.513142	35.917306	Ash Removal for the Reverse filter
Walter Burns	R0011757	11/21/2011		North Embayment	SW	84.513142	35.917306	Ash Removal for the Reverse filter
Walter Burns	R0011758	11/21/2011		North Embayment	SW	84.513142	35.917306	Ash Removal for the Reverse filter
Walter Burns	R0011759	11/21/2011		North Embayment	SW	84.513142	35.917306	Ash Removal for the Reverse filter
Walter Burns	R0011760	11/21/2011		North Embayment	SW	84.513142	35.917306	Ash Removal for the Reverse filter
Walter Burns	R0011761	11/21/2011		North Embayment	SW	84.513142	35.917306	Ash Removal for the Reverse filter
Walter Burns	R0011762	11/21/2011		North Embayment	SW	84.513142	35.917306	Ash Removal for the Reverse filter
Walter Burns	R0011763	11/21/2011		North Embayment	SW	84.513142	35.917306	Ash Removal for the Reverse filter
Walter Burns	R0011764	11/21/2011		North Embayment	SW	84.513142	35.917306	Ash Removal for the Reverse filter
Walter Burns	R0011765	11/21/2011		North Embayment	SW	84.513142	35.917306	Ash Removal for the Reverse filter
Walter Burns	R0011766	11/21/2011		North Embayment	SW	84.513142	35.917306	Ash Removal for the Reverse filter
Walter Burns	R0011767	11/21/2011		North Embayment	SW	84.513142	35.917306	Ash Removal for the Reverse filter

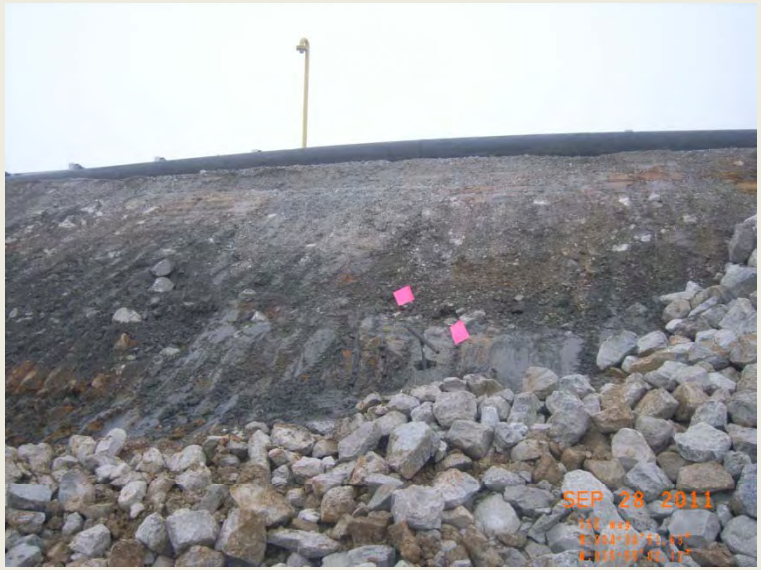
Slope cleaning along Swan Pond Circle Road

Slope cleaning and riprap placement

Slope cleaning along Swan Pond Circle Road

Slope cleaned to maximum safe steepness showing ash remaining

Slope cleaned to maximum safe steepness showing ash remaining



Riprap placement with ash remaining depth test

Slope cleaned to maximum safe steepness showing ash remaining

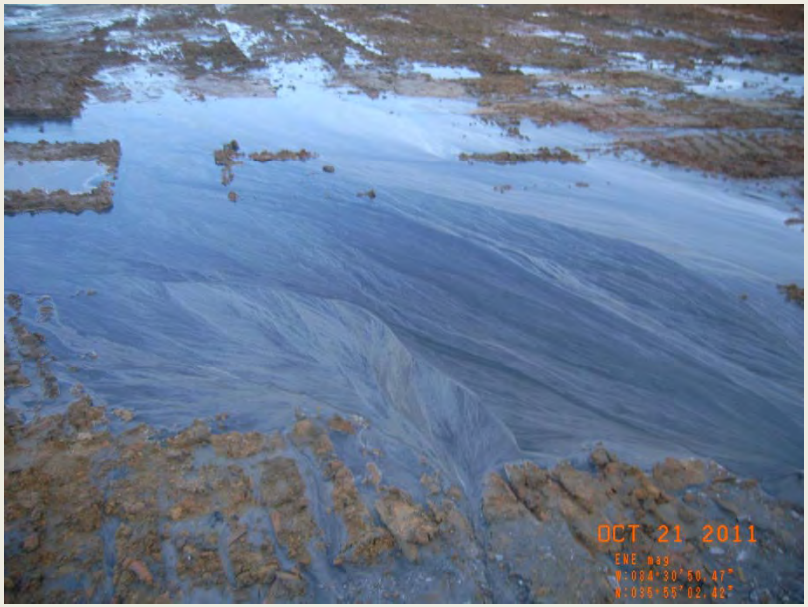
Riprap placement viewed from above

Riprap advanced to ash cleaning area

Ash, cleaned surface, and riprap

Ash removal in advance of riprap placement

Ash seepage from toe of riprap



Ash seepage from toe of riprap

Removal of ash from under pump pad

Removal of ash from pump pad access ramp area

Ash seepage from toe of riprap

Seepage cleanup

Seepage cleanup and reverse filter installation

Reverse Filter Installation

Seepage cleanup

Seepage cleanup, excavator and track truck

NOV 21 2011

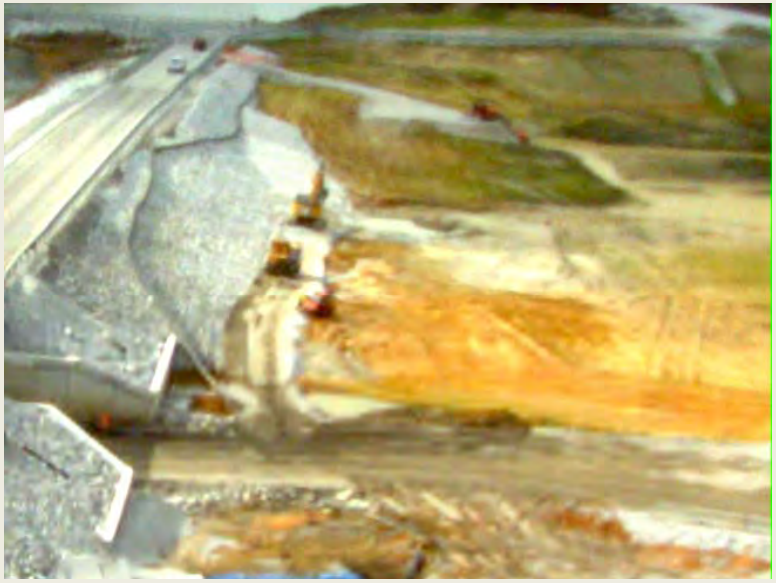
CAT
NOV 21 2011

NOV 22 2011

CAT
NOV 22 2011

2011-11-21 access construction and seepage cleaning

2011-11-30 Completed Filter and Pond



2011-11-23 Reverse Filter Installation

2011-11-30 Completed Filter and Pond

FIG-NESAM-02

North Embayment Sample Grid Locations

- RJ LEE SAMPLE RESULTS SATISFACTORY
- KRP SAMPLE RESULTS SATISFACTORY / RJ LEE RESULTS PENDING
- SAMPLE RESULTS UNSATISFACTORY
- TO BE SAMPLED
- CONCURRENCE BOUNDARY

0 100' 200' 300'

REVISION NO.	DATE	DESCRIPTION	DRAWN BY	CHECKED BY	APPROVAL
	11/30/11	NORTH EMBAYMENT CONCURRENCE #8			

SEAL

JACOBS

KINGSTON FOSSIL PLANT
TENNESSEE VALLEY AUTHORITY

NORTH EMBAYMENT SAMPLE GRID

SCALE: SHOWN

DRAWING NO. FIG-NESAM-02

REV.