Tennessee Valley Authority
Regulatory Submittal for Kingston Fossil Plant

Documents submitted:
Pine Ridge Borrow Study Work Plan
RAWP - 091

Date Submitted:
03/31 /2011

Submitted to whom
Craig Zeller, EPA

Concurrence

Received	Not Applicable	TVA
☐	☒	Steve McCracken
☒	☐	Kathryn Nash
☒	☐	Michelle Cagley mc

Received	Not Applicable	Jacobs
☒	☐	Jack Howard
☒	☐	Butch Parton
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Approvals

TVA Kathryn Nash Date 3/31/11

EPA Craig Zeller Date 3/31/11

cc:

- ☒ Anda Ray, TVA
- ☒ Barbara Scott, TDEC
- ☒ Brenda Brickhouse, TVA
- ☒ John Dizer, TVA
- ☒ Craig Zeller, EPA
- ☒ Dennis Yankee, TVA
- ☒ Kathryn Nash, TVA
- ☒ Cynthia Anderson, TVA
- ☒ Steve McCracken, TVA
- ☒ EDM
- ☒ Diane Odom, Jacobs
- ☒ Jack Howard, Jacobs
- ☒ Michelle Cagley, TVA
- ☒ Greg Signer, TVA
- ☒ KIF Incident Document Control
- ☒ Katie Kline, TVA
- ☒ Dannena Bowman, EPA
- ☒ Robert Pullen, Jacobs
- ☒ Document Control, Jacobs (Jude Bousquet and Terry Crabtree-Hagemann)

Document No. RAWP-091

Kingston Ash Recovery Project
Non-Time-Critical Removal Action

Pine Ridge Borrow Study Work Plan

Prepared by:
Stantec Consulting Services Inc.

for the Tennessee Valley Authority

Revision	Description	Date
0	Issued for TVA Review	March 8, 2011
1	Revision – Issued for TVA Review	March 31, 2011

1.0 Purpose of Work

The objective of this work plan is to perform a geotechnical exploration of the proposed Pine Ridge borrow area that includes both borings and test pits.

2.0 Design Components

The area for the proposed Pine Ridge borrow area consists of several lots alongside Swan Pond Road. The lots vary from relatively flat and clear to steeply graded with dense vegetation cover.

Borings and test pits are located in areas that are accessible without clearing from a dozer.

Twelve (12) borings were located in the field that will be performed with a Stantec drill crew and engineer/geologist.

Eight (8) test pits were located in the field that will be excavated with a TVA supplied backhoe and operator and a Stantec engineer/geologist.

It is assumed that site remediation and reclamation will be performed by TVA. Site remediation and reclamation will include leveling and/or removal of mounded soil at boring and test pit locations and then placing seed and straw to re-establish vegetation.

This work plan is being prepared due to the need to perform a borrow study to identify potential soil material that can be used at cover material for the completed Dredge Cell.

3.0 Construction Management

The exploration will be accomplished with Stantec drilling personnel and with assistance as needed from site equipment and labor.

4.0 Schedule

The schedule of the construction would be as follows:
2 weeks to drill the soil borings and test pits.

5.0 Waste Management

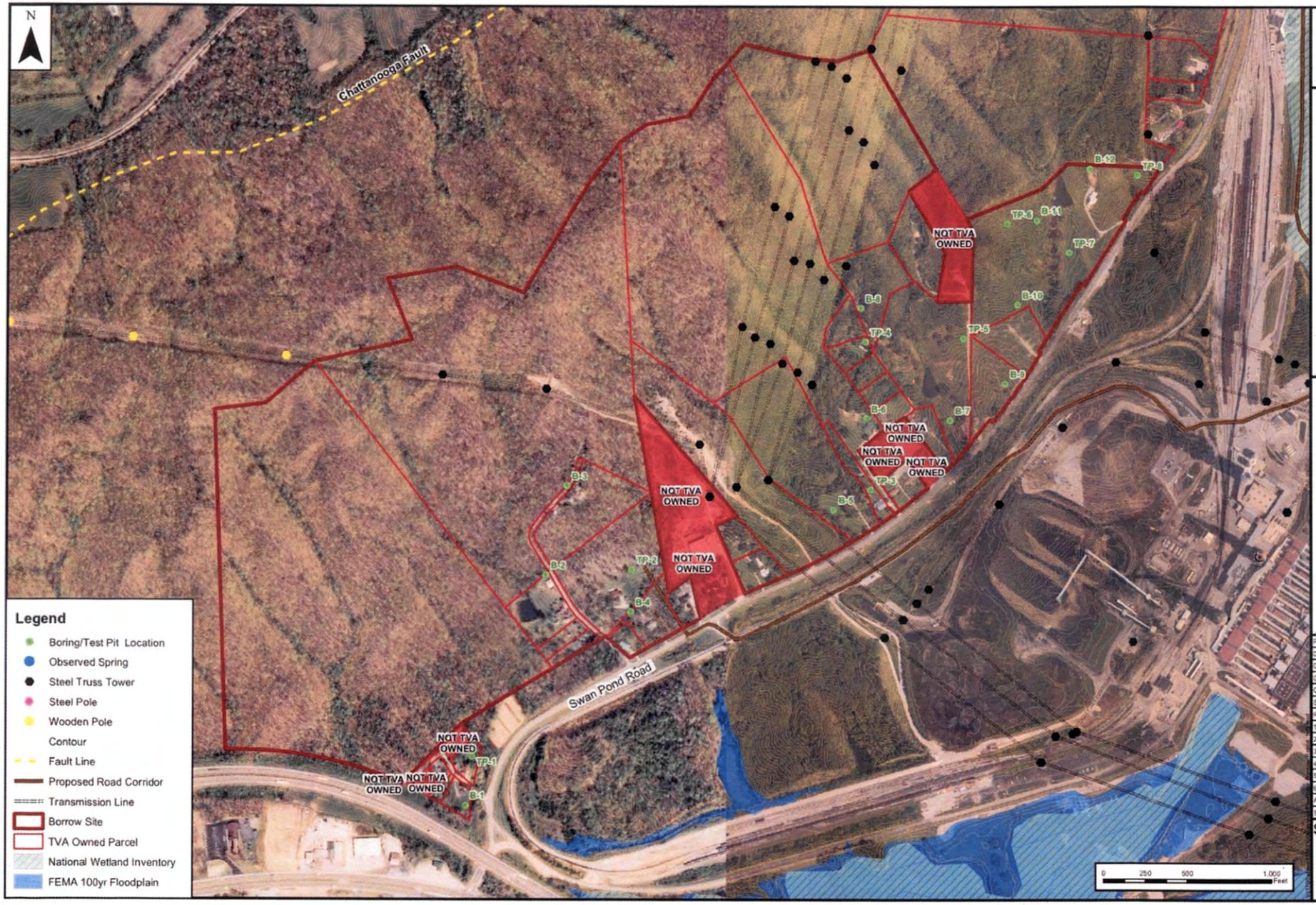
The waste generated by this work plan is anticipated to only be auger cuttings and excess soil from test pits.

6.0 Health and Safety

All construction activities will be done in accordance with site-wide Health and Safety Plan.

Boring & Test Pit Location Table		
Boring/Test Pit No.	**Northing**	**Easting**
B-1	571847.01300	2402318.76718
B-2	573201.10409	2402792.27595
B-3	573730.86137	2402917.62828
B-4	572983.93474	2403289.31029
B-5	573590.71782	2404494.63947
B-6	574133.53202	2404688.77658
B-7	574122.76729	2405182.70031
B-8	574788.31228	2404654.33796
B-9	574340.23699	2405505.23884
B-10	574808.40114	2405576.96630
B-11	575307.81376	2405692.94393
B-12	575609.58331	2406004.41864
TP-1	572132.66825	2402358.92422
TP-2	573233.03842	2403295.34814
TP-3	573709.43904	2404715.00492
TP-4	574588.49739	2404681.92912
TP-5	574609.56904	2405259.18800
TP-6	575286.93539	2405515.54723
TP-7	575116.28092	2405883.32029
TP-8	575571.68230	2406291.10395

Coordinates shown are from
NAD_1983_StatePlane_Tennessee_FIPS_4100_Feet



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Stantec

KIF Local Borrow Study - Pine Ridge
Aerial and Contour

Kingston Fossil Plant
Tennessee Valley Authority
Harriman, Roane County, TN

PROJECT NO.	175660044
DATE	MARCH 2011
DRAWN BY	DMB
CHECKED BY	AML
CHECKED BY	
SCALE	AS SHOWN
REVISED	
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AERIAL DATE: JULY 23, 2010	
SECONDARY AERIAL DATE: 2008	

SHEET

1 OF 3