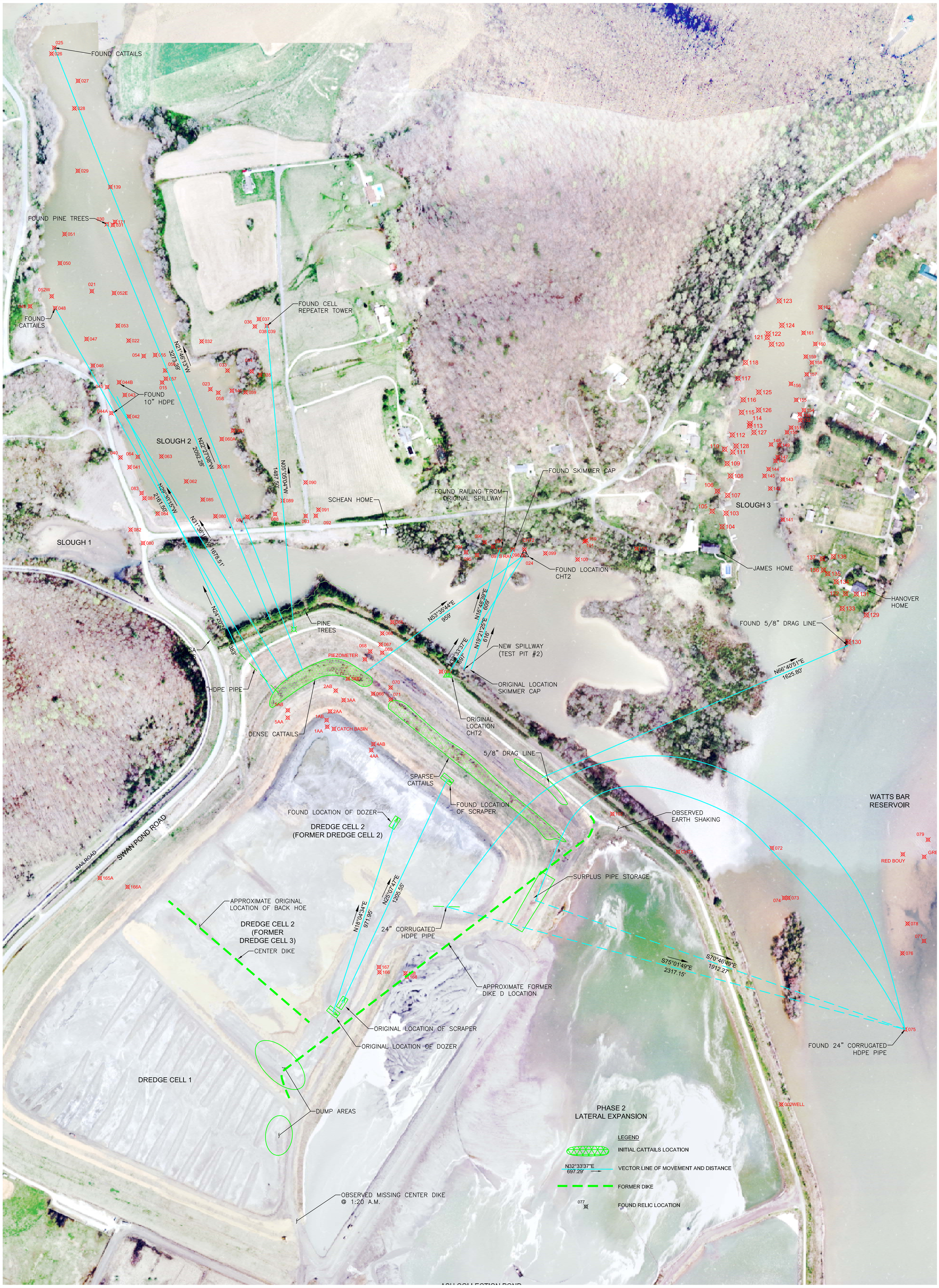

PROJECT NUMBER
60095742

SHEET REFERENCE NUMBER
1.3.2_1

847 .279 .2500

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Designed:		
Drawn:	CJH/DTB	6/12/2009
Checked:	JEL	6/12/2009
Approved:	WHW	6/12/2009

RELIC LOCATION MAP
ROOT CAUSE ANALYSIS
TVA KINGSTON DREDGE CELL FAILURE
ON DECEMBER 22, 2008
KINGSTON FOSSIL PLANT
HARRIMAN, TENNESSEE

N

200 0 200 400

1" = 200'

NOTE: AERIAL IMAGE PROVIDED BY TVA, DATED APRIL 5, 2005

AECOM

M:\PROJECTS\60095742\dwg\60095742-1.3.2_1-RELIC VECTORS.dwg; 6/14/2009 2:00:46 PM; HEINTZ, CHARLES; STS.stb

M:\PROJECTS\60095742\dwg\G60095742-1.3.2_2-MOD-VECTOR.dwg; 6/14/2009 2:01:15 PM; HEINTZ, CHARLES; STS.stb

FOUND CATTAILS
FOUND CATTAILS
FOUND 10" HDPE
FOUND PINE TREES
FOUND CELL REPEATER TOWER
RESIDENCE MOVED APPROXIMATELY 64'
FOUND RAILING FROM ORIGINAL SPILLWAY
FOUND LOCATION CHT2
ORIGINAL LOCATION CHT2
SPILLWAY (TEST PIT #2)
TAIL WATER
FOUND 5/8" DRAG LINE
SLOUGH 1
SLOUGH 2
SLOUGH 3
WATTS BAR RESERVOIR
PINE TREES
MAMOSA TREES
DENSE CATTAILS
PIEZOMETER
10"HDPE PIPE
WETLAND
CATCH BASIN
SPARSE CATTAILS
FOUND LOCATION OF SCRAPER
FOUND LOCATION OF DOZER
28" DRAG LINE
SWAN POND ROAD
RAILROAD
DIKE 'B'
DREDGE CELL 2 (FORMER DREDGE CELL 2)
DREDGE CELL 2 (FORMER DREDGE CELL 3) (x 760)
ORIGINAL LOCATION OF BACKHOE
CENTER DIKE (2008)
24" CORRUGATED HDPE PIPE
SURPLUS PIPE STORAGE
DIKE 'D'
PHASE 1 DREDGE CELL
ORIGINAL LOCATION OF SCRAPER
ORIGINAL LOCATION OF DOZER
2004 DIKE
DREDGE CELL 1
PHASE 2 LATERAL EXPANSION
PHASE 2 LATERAL EXPANSION DIKE
OUTFALLS
FERMETER DIKE 'C'
FOUND 24" CORRUGATED HDPE PIPE
GREEN BOUY
RED BOUY
EMORY RIVER (ELEV. 735-742 ft.)
ASH COLLECTION POND (ELEV. 760-761 ft.)
DIVIDER DIKE
SETTLING BASIN (ELEV. 755-756 ft.)
EMORY RIVER
CHEMICAL TREATMENT POND
CHEMICAL TREATMENT POND
FLY ASH DISCHARGE
BOTTOM ASH DISCHARGE
EAST DIKE
OUTFALLS
DIKE 'C' (PERIMETER DIKE)
INTAKE CHANNEL
W PIPE MASS EX
W PIPE 10 FT DE
X 780 FT EL MA
X 760 FT EL MA
002WELL
001BASE
002MRK1

N21°46'13"W 3273.35'
N27°27'06"W 2092.28'
N39°30'15"W 2165.50'
N24°20'00"W 1525.75'
N00°50'04"W 1487.50'
N16°46'57"E 609.72'
N02°33'37"E 697.29'
N63°30'44"E 959.32'
N18°04'34"E 971.95'
N25°07'41"E 1205.55'
S70°46'49"E 1912.27'
S75°01'49"E 2317.15'
N66°40'51"E 1625.80'

(x 755)
(x 750)
(x 749)
(x 748)
(x 741)
(x 743)
(x 772)
(x 782)

NOTE: AERIAL IMAGE PROVIDED BY TVA, DATED DECEMBER 30, 2008

LEGEND
- ASH FLOW LINE
- HIGH WATER LINE
- (x 756) TOP OF FAILURE ASH ELEVATION
- INITIAL CATTAILS LOCATION
- INITIAL BERM OUTLINE
- WETLAND LOCATION
- APPROXIMATE PARTIAL BERM LOCATION
- DIKE 'C' REMANANTS
- N32°33'37"E 697.29' VECTOR LINE OF MOVEMENT AND DISTANCE
- FORMER DIKE
- FOUND RELIC LOCATION

Issued

Rev	Date	Description

Designed:
Drawn: DTB 6/12/2009
Checked: LWB 6/12/2009
Approved: WHW 6/12/2009

PROJECT NUMBER 60095742

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RELIC VECTOR MAP WITH HIGH WATER MARKS AND ASH DISPLACEMENT

ROOT CAUSE ANALYSIS
TVA KINGSTON DREDGE CELL FAILURE
ON DECEMBER 22, 2008
KINGSTON FOSSIL PLANT
HARRIMAN, TENNESSEE

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