0095162

Department of Energy
Richland Operations Office
P.O. Box 550
Richland, Washington 99352

11-AMRC-0112

MAR 28 2011

Mr. D. A. Faulk, Program Manager
Office of Environmental Cleanup
Hanford Project Office
U.S. Environmental Protection Agency
309 Bradley Boulevard, Suite 115
Richland, Washington 99352

RECEIVED
MAR 30 2011
EDMC

Dear Mr. Faulk:

TRANSMITTAL OF THE APPROVED WASTE SITE RECLASSIFICATION FORM AND SUPPORTING DOCUMENTATION FOR THE 600-333 UNDERGROUND STORAGE STRUCTURE, REVISION 0

Attached for your use is the approved Waste Site Reclassification Form No. 2011-008 and supporting documentation for the "600-333, Underground Storage Structure," Revision 0. If you have questions, please contact me or your staff may contact Jamie Zeisloft, of my staff, at (509) 372-0188.

Sincerely,

Mark S. French, Federal Project Director
for the River Corridor Closure Project

AMRC:JHZ

Attachment

cc w/attach:
C. J. Guzzetti, EPA
Administrative Record, H6-08

cc w/o attach:
S. L. Feaster, WCH
T. A. Foster, WCH
M. L. Proctor, WCH

TDC-1H-Le

Date Submitted: 02/10/2011 Originator: M. L Proctor Phone: 372-9227	**WASTE SITE RECLASSIFICATION FORM** Operable Unit(s): 100-IU-6 Waste Site Code: 600-333 Type of Reclassification Action: Closed Out ☐ Interim Closed Out ☐ No Action ☐ RCRA Postclosure ☐ Rejected ☒ Consolidated ☐	Control Number: 2011-008

This form documents agreement among parties listed authorizing classification of the subject unit as Closed Out, Interim Closed Out, No Action, RCRA Postclosure, Rejected, or Consolidated. This form also authorizes backfill of the waste management unit, if appropriate, for Closed Out and Interim Closed Out units. Final removal from the NPL of No Action and Closed Out waste management units will occur at a future date.

Description of current waste site condition:

The 600-333, Underground Concrete Structure waste site is located in the 100-IU-6 Operable Unit, near the site of the former 101 Building (Figure A-1 in the Attachment to Waste Site Reclassification Form 2011-008). The waste site consists of a below grade concrete structure with three vertical 0.5- by 0.5-m (1.6- by 1.6-ft) shafts that are 2.4 m (8 ft) deep and are open to the surface (Figure B-1). The orphan sites evaluation team believed that the concrete structure was a septic tank that was associated with the former 101 Building graphic machining facility operations (Figure B-2). The 600-333 waste site was included in the *Explanation of Significant Differences for the 100 Area Remaining Sites Interim Remedial Action Record of Decision, Hanford Site, Benton County, Washington* (ESD), U.S. Environmental Protection Agency, Region 10, Seattle, Washington (EPA 2009) as a candidate site for further evaluation.

Basis for reclassification:

The 600-333, Underground Concrete Structure was evaluated to determine its classification as a waste site in accordance with the remedial action objectives and goals established in the *Interim Action Record of Decision for the 100-BC-1, 100-BC-2, 100-DR-1, 100-DR-2, 100-FR-1, 100-FR-2, 100-HR-1, 100-HR-2, 100-KR-1, 100-KR-2, 100-IU-2, 100-IU-6, and 200-CW-3 Operable Units, Hanford Site, Benton County, Washington,* U.S. Environmental Protection Agency, Region 10, Seattle, Washington (EPA 1999). The 600-333 waste site was included in the ESD as a candidate site for further evaluation.

A geophysical site investigation was conducted at the 600-333 waste site in August 2007 to determine if there was additional buried infrastructure around the feature that might help resolve the function of the structure (e.g., septic tank). The geophysical anomaly associated with the concrete structure in Figure A-2 of the Attachment appears to be consistent with its observed size and shape. No other nearby geophysical anomalies shown in Figure A-2 appear to be associated with the observed underground concrete structure. An east-west-trending anomaly was observed (i.e., probable utility/pipeline) passing to the north of the structure, but it did not appear to be associated with it. The anomaly identified at Washington State Plane coordinates N 43, E 143 is related to a linear anomaly (e.g., manhole). The anomalous zone in the northeastern corner in Figure A-2 has the characteristics of the buried remnants of a structure (i.e., building). The anomalous zone along the southern border of this site is correlated with the abundance of graphite that is scattered across the surface in this area (Figure A-2).

During confirmatory sampling activities on November 2, 2010, the site was evaluated and it was determined that the 600-333 concrete structure is not a septic tank. The concrete structure was observed to be very large in dimension; it extends deeper than 3.7 m (12 ft) below ground surface, and is 9.8 (32 ft) long and 4.9 m (16 ft) wide (Figures B-1 and B-2). A very large pipeline enters the east end of the concrete structure (Figures B-3 and B-4). There were no liquids, staining, or hazardous debris observed within the underground concrete structure. Due to the depth, size, and the nature of this concrete structure, no samples were collected from this waste site. The structure is suspected to be an underground facility rather than a septic tank. The 600-333 waste site evaluation demonstrates that the site does not contain waste materials or associated *Comprehensive Environmental Response, Compensation, and Liability Act of 1980* hazardous substances. The 600-333 waste site does not pose a risk to human health or the environment and will support future unrestricted land uses that can be represented (or bounded) by a rural-residential scenario, and it is therefore rejected from consideration as a waste site. Because of safety issues, two of the three open shafts have been plugged with concrete debris; one is left open. The area has been posted as a "fall hazard" area.

Waste Site Controls:
Engineered Controls: Yes ☐ No ☒ Institutional Controls: Yes ☐ No ☒ O&M Requirements: Yes ☐ No ☒
If any of the Waste Site Controls are checked Yes, specify control requirements including reference to the Record of Decision, TSD Closure Letter, or other relevant documents.

M. S. French DOE Federal Project Director (printed)	Signature	3/12/11 Date
Ecology Project Manager (printed) L Buelow for C. Guzzetti	Signature	Date
EPA Project Manager (printed)	Signature	3/16/11 Date

SUPPORTING INFORMATION FOR RECLASSIFICATION OF THE 600-333, UNDERGROUND STORAGE STRUCTURE

Attachment to Waste Site Reclassification Form 2011-008

March 2011

APPENDIX A

600-333 FIGURES

Figure A-1. The 600-333 Waste Site Location Map.

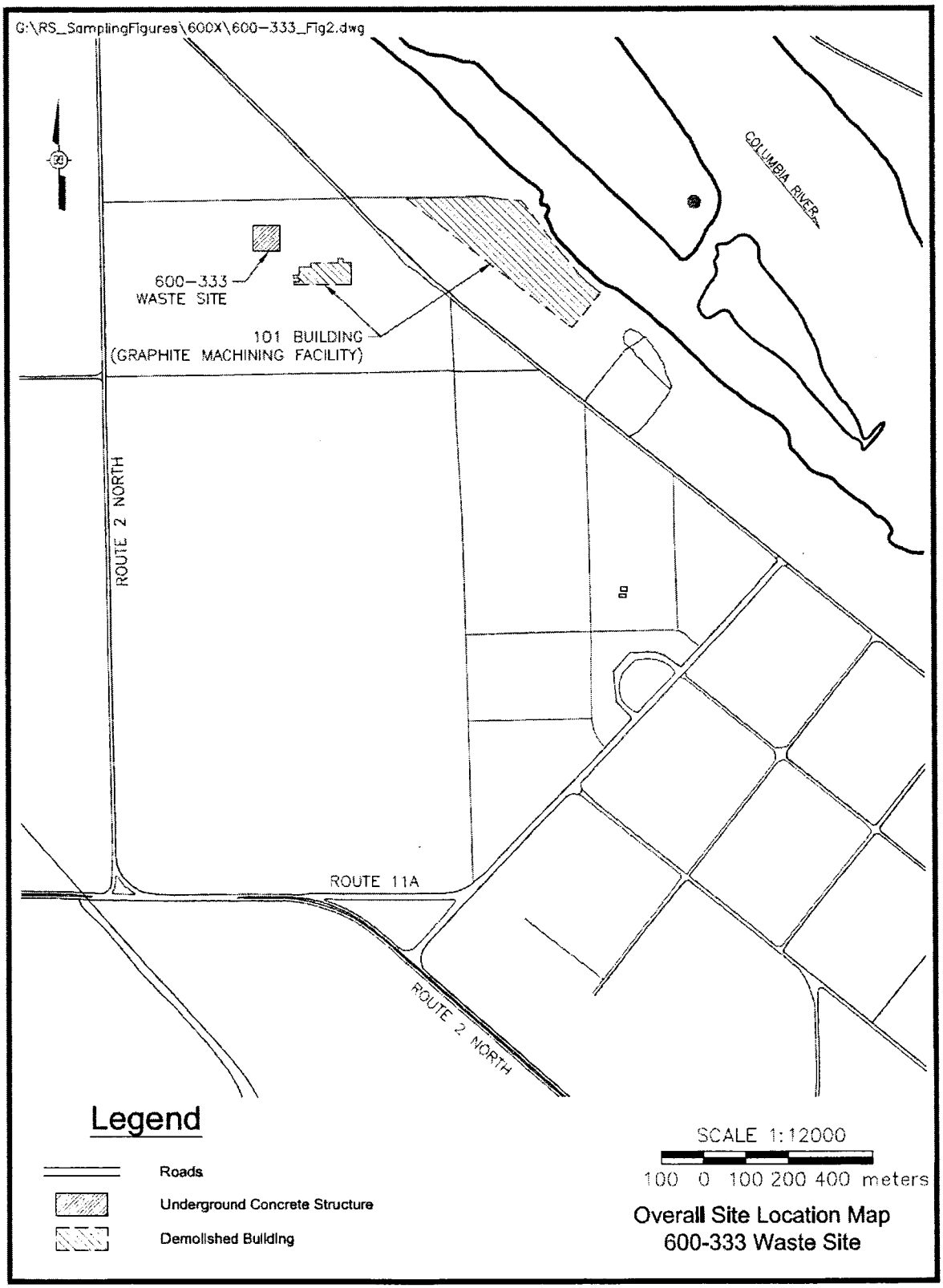
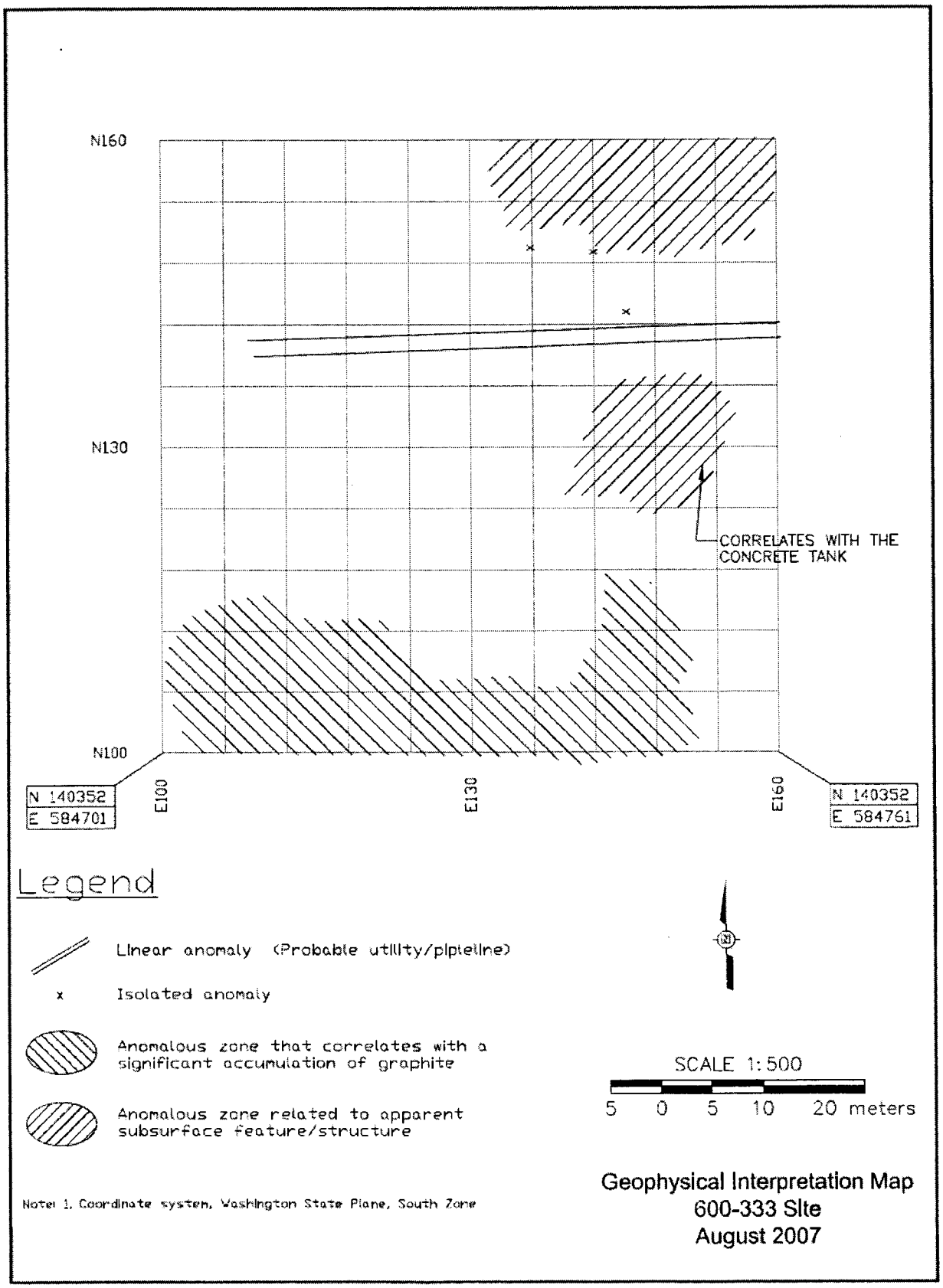


Figure A-2. 600-333 Waste Site Geophysical Interpretation Map.



APPENDIX B
600-333 PHOTOGRAPHS

Figure B-1. 600-333 Waste Site, Three Vertical Shafts.

Figure B-2. Hanford Construction Camp, 1948. (The 101 Building is the large complex in the center of the photo.)

Figure B-3. South Wall of the Structure (32 ft long).

Figure B-4. East Wall of the Structure (16 ft long).
(Very large pipeline running into east wall.)