

WASTE SITE RECLASSIFICATION FORM

Operable Unit: 100-HR-1

Control No.: 2016-005

Waste Site Code(s)/Subsite Code(s): 600-385, Segment 4 Transite, Concrete, and Metal Debris Area

Reclassification Category: Interim Final

Reclassification Status: Closed Out No Action Rejected
RCRA Postclosure Consolidated None

Approvals Needed: DOE Ecology EPA

Description of current waste site condition:

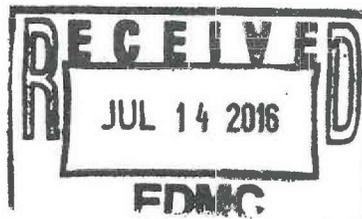
The 600-385, Segment 4 Transite, Concrete, and Metal Debris Area waste site is a candidate site added to the *Interim Action Record of Decision for the 100-BC-1, 100-BC-2, 100-DR-1, 100-DR-2, 100-FR-1, 100-FR-2, 100-HR-1, 100-HR-2, 100-KR-1, 100-KR-2, 100-IU-2, 100-IU-6, and 200-CW-3 Operable Units*, U.S. Environmental Protection Agency, Region 10, Seattle, Washington (Remaining Sites ROD) (EPA 1999), by the Tri-Party Agreement Administrative Record Fact Sheet: *100 Area "Plug-In" and Candidate Sites for Calendar Year 2011, Annual Listing of Waste Sites Plugged into the Remove, Treat and Dispose Remedy in the 1999 Interim Action Record of Decision for the 100 Area*, U.S. Department of Energy, Richland, Washington (DOE-RL 2012), per the *Explanation of Significant Differences for the 100 Area Remaining Sites Interim Remedial Action Record of Decision, Hanford Site, Benton County, Washington*, U.S. Environmental Protection Agency, Region 10, Seattle, Washington (EPA 2009).

The 600-385 waste site consisted of an area approximately 5,000 m² (1.2 ac) with scattered transite, concrete, and metal debris. Remediation of the 600-385 waste site was conducted between March 28 and May 17, 2016. Approximately 5,304 bank cubic meters (6,937 bank cubic yards) of soil and debris were removed and disposed at the Environmental Restoration and Disposal Facility (ERDF). The maximum depth of the excavation extended to approximately 1.5 m (5 ft) deep. The excavated materials consisted of asbestos (transite) and nonhazardous debris (i.e., concrete, wood, metal), as well as the underlying soil. No overburden material was salvaged for use as clean backfill material, and no waste staging pile areas were utilized.

The selected remedy involved (1) excavating the site to the extent required to remove the asbestos debris, (2) disposing of excavation materials at ERDF in the 200 Area of the Hanford Site, (3) visual verification that the asbestos material has been removed, and (4) proposing the site for reclassification to Interim Closed Out. Supporting documentation is presented in the *600-385, Segment 4 Transite, Concrete, and Metal Debris Area Waste Site, Attachment To Waste Site Reclassification Form 2016-005* (attached).

Basis for reclassification:

No hazardous materials other than asbestos were identified during remediation; remediation was performed to remove asbestos-containing debris and co-located construction debris. A visual inspection of the 600-385 waste site was conducted by a Washington State certified asbestos supervisor on May 17, 2016; no asbestos was found to be present. Because no other contaminants were identified during the remediation, and in agreement with the Washington State Department of Ecology, no verification sampling was performed. The 600-385 waste site is reclassified to Interim Closed Out based on the visual removal of debris material.



Attached to: 1239346

WASTE SITE RECLASSIFICATION FORM

Operable Unit: 100-HR-1

Control No.: 2016-005

Waste Site Code(s)/Subsite Code(s): 600-385, Segment 4 Transite, Concrete, and Metal Debris Area

Regulator Comments:

Waste Site Controls:

Engineered Controls: Yes No Institutional Controls: Yes No O&M Requirements: Yes No

J. P. Neath

DOE Federal Project Director (printed)

Signature

6/29/16

Date

N. Menard

Ecology Project Manager (printed)

Signature

7/5/16

Date

N/A

EPA Project Manager (printed)

Signature

Date

**600-385, SEGMENT 4 TRANSITE, CONCRETE, AND
METAL DEBRIS AREA WASTE SITE**

Attachment to Waste Site Reclassification Form 2016-005

July 2016

GENERAL SITE INFORMATION AND BACKGROUND

The 600-385, Segment 4 Transite, Concrete, and Metal Debris Area waste site, part of the 100-HR-1 Operable Unit (OU), is located approximately 1.2 km (0.7 mi) northwest of the northwest corner of the 100-H perimeter road along the Columbia River (Figure 1).

There is no known specific process history associated with the 600-385 waste site. It was discovered on August 30, 2010, while the 100-F/IU-2/IU-6 Area – Segment 4 Orphan Site Evaluation was being conducted. The site consists of an area approximately 5,000 m² (1.2 ac) with scattered transite, concrete, and metal debris (WCH 2011a). A photograph taken at its discovery is shown in Figure 2.

A geophysical investigation was conducted in January 2011, to detect and delineate areas of elevated concentrations of metallic debris. The results indicated that surface and buried metallic material was contained in an area measuring approximately 20 by 190 m (65 by 623 ft) long (WCH 2011c). An additional geophysical survey was conducted in December 2011, to investigate both metallic and nonmetallic features. The survey results indicated that most of the debris appeared to be buried in the upper 0.2 m (0.7 ft) of the ground surface (WCH 2011b).

REMEDIAL ACTION SUMMARY

The 600-385 waste site was recommended for remediation without confirmatory sampling due to the presence of visible, scattered debris and the potential presence of hazardous materials. The 600-385 waste site is listed in the *100 Area "Plug-In" and Candidate Waste Sites for Calendar Year 2011* (DOE-RL 2012) as a candidate site for the remove, treat, and dispose (RTD) remedy. The waste site was remediated as a "plug-in" site in accordance with 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 (Remaining Sites ROD)* (EPA 1999) and the *Explanation of Significant Differences for the 100 Area Remaining Sites Interim Remedial Action Record of Decision, Hanford Site, Benton County, Washington* (ESD) (EPA 2009).

Remediation of the 600-385 waste site was performed between March 28 and May 17, 2016. Approximately 5,304 bank cubic meters (6,937 bank cubic yards) of excavated materials were removed and loaded out for disposal at the Environmental Restoration Disposal Facility (ERDF). The maximum depth of the excavation extended to approximately 1.5 m (5 ft) deep. The excavated materials consisted of asbestos (transite) and nonhazardous debris (i.e., concrete, wood, metal) as well as the underlying soil.

An area of red-stained soil was encountered during remediation and is visible in Figure 3. A soil sample (J1V8V1) was collected of the stained soil on April 7, 2016. Based on the analytical results, the stained soil was determined to be nonhazardous. The results are provided in Table 1.

Figure 1. The 600-385 Waste Site Location Map.

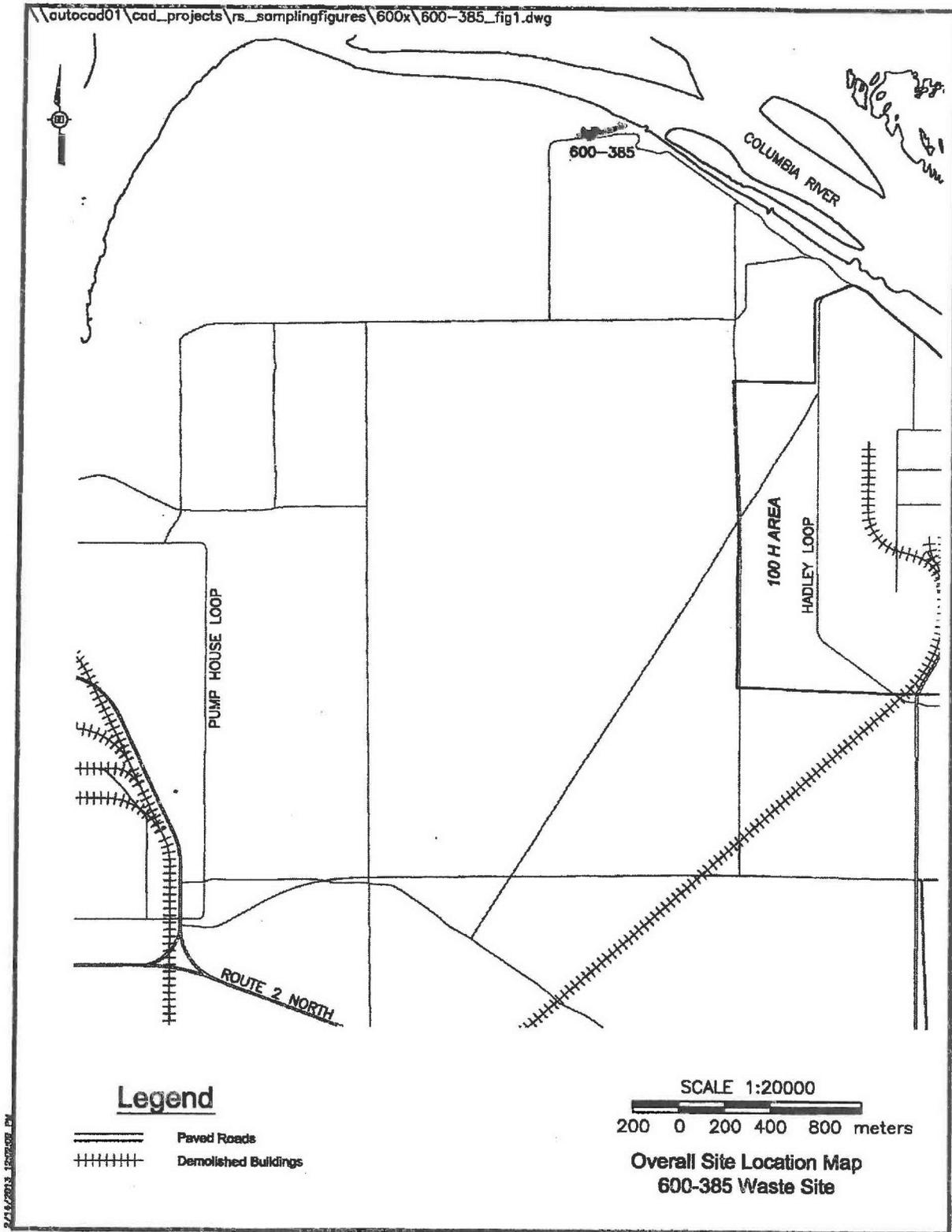


Figure 2. Photograph of the 600-385 Waste Site (August 30, 2010).

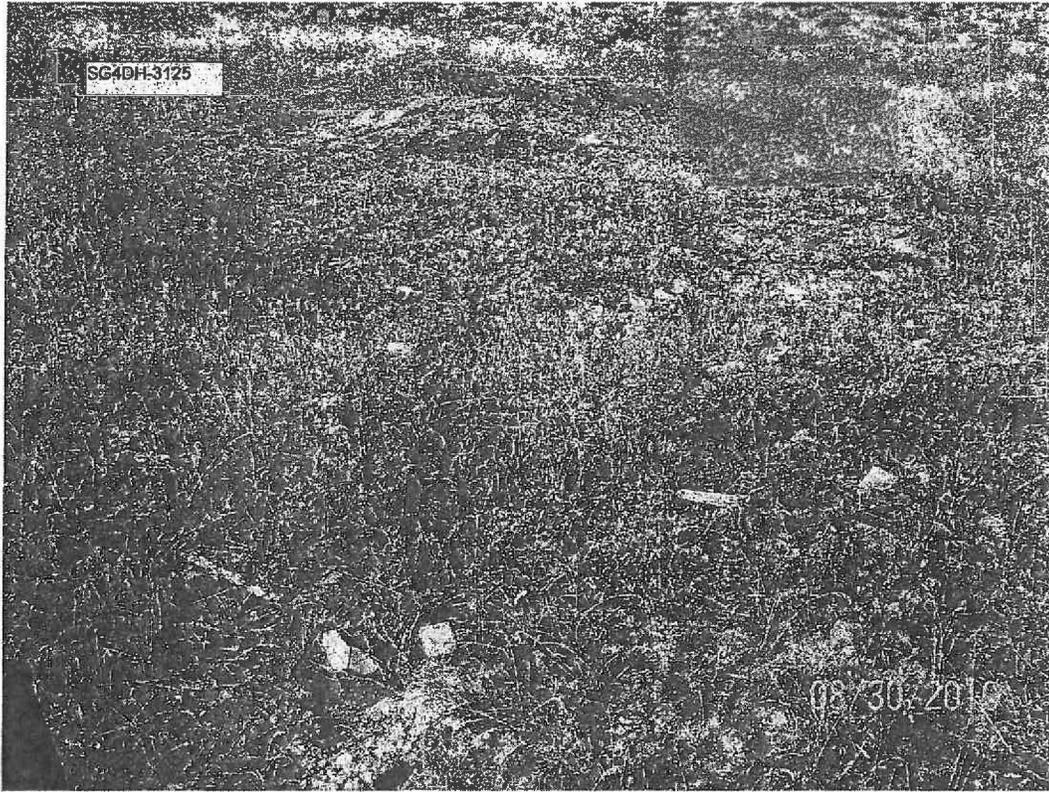


Figure 3. Photograph of the 600-385 Waste Site During Remediation (May 2016).

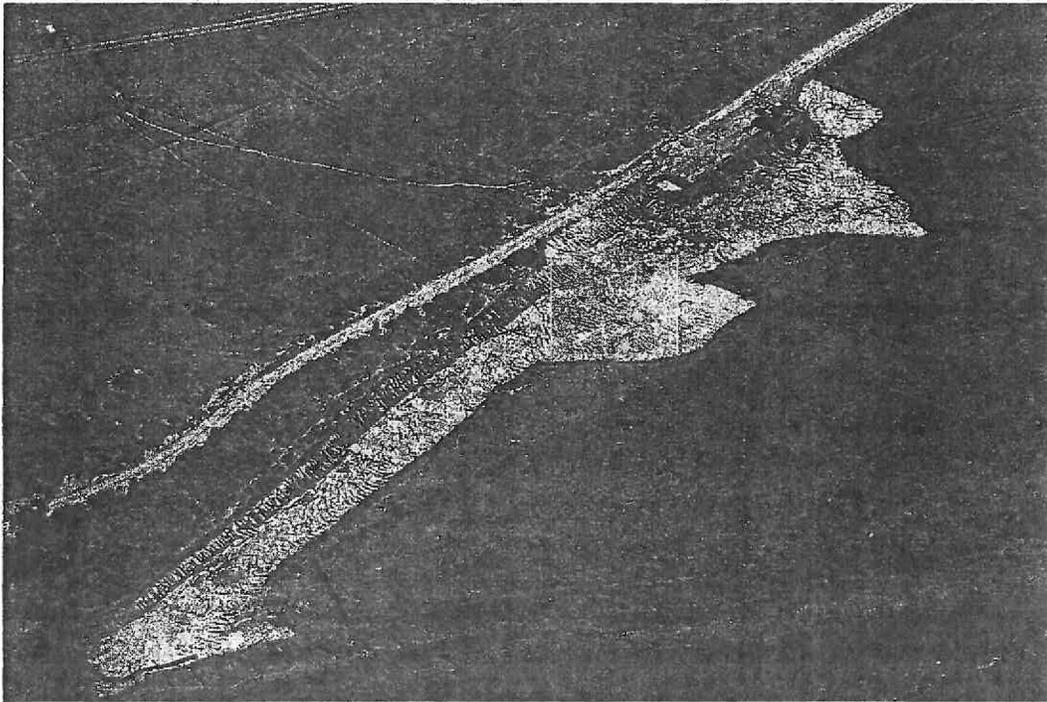


Table 1. Red-Stained Soil Sample Results.

J1V8V1 Aluminum			J1V8V1 Antimony			J1V8V1 Arsenic			J1V8V1 Barium			J1V8V1 Beryllium			J1V8V1 Boron		
mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL
14000	X	1.3	0.32	U	0.32	5.6		0.55	96.5	X	0.063	0.48		0.028	0.82	UN	0.82
J1V8V1 Cadmium			J1V8V1 Calcium			J1V8V1 Chromium			J1V8V1 Cobalt			J1V8V1 Copper			J1V8V1 Iron		
mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL
0.15	B	0.034	4140	X	11.8	27.8	X	0.048	6.7	X	0.083	31.7	X	0.18	25400	X	3.2
J1V8V1 Lead			J1V8V1 Magnesium			J1V8V1 Manganese			J1V8V1 Molybdenum			J1V8V1 Nickel			J1V8V1 Potassium		
mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL
6.6		0.23	4190	X	3.1	159	X	0.083	0.62	BM	0.22	20.2	X	0.1	1060		34.2
J1V8V1 Selenium			J1V8V1 Silicon			J1V8V1 Silver			J1V8V1 Sodium			J1V8V1 Vanadium			J1V8V1 Zinc		
mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL	mg/kg	Q	PQL
0.72	UN	0.72	858	XN	4.7	0.13	U	0.13	262		49.2	85.1	X	0.078	33.3	X	0.33
J1V8V1 Hexavalent Chromium			J1V8V1 pH Measurement														
mg/kg	Q	PQL	pH	Q	PQL												
0.17	U	0.17	7.7		0.1												

B = estimated result. Result is less than the reporting limit, but greater than the method detection limit.

M = sample duplicate precision not met.

N = recovery exceeds upper or lower control limits.

Q = qualifier

U = Analyzed for but not detected.

X = serial dilution in the analytical batch indicates that physical and chemical interferences are present.

SUMMARY FOR INTERIM CLOSURE

The 600-385 waste site is reclassified to Interim Closed Out based on visual observation that the asbestos (transite) and nonhazardous debris have been removed and disposed. In agreement with the U.S. Department of Energy, Richland Operations Office (DOE-RL) and the Washington State Department of Ecology (Ecology) no verification soil samples were collected from the 600-385 waste site as no other contaminants were encountered during site remediation (WCH 2016a). A visual inspection was conducted at the completion of waste site remediation to verify that no asbestos-containing material (transite) remained.

An agreement has been made with DOE-RL and Ecology to not backfill the 600-385 waste site as the current conditions follow the shape of a ravine typical in the area (WCH 2016b).

REFERENCES

DOE, 2012, *Fact Sheet: 100 Area "Plug-In" and Candidate Sites for Calendar Year 2011, Annual Listing of Waste Sites Plugged into the Remove, Treat and Dispose Remedy in the 1999 Interim Action Record of Decision for the 100 Area*, U.S. Department of Energy, Richland, Washington.

- EPA, 1999, *Interim Action Record of Decision for the 00-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*, U.S. Environmental Protection Agency, Region 10, Seattle, Washington.
- EPA, 2009, *Explanation of Significant Differences 100 Area Remaining Sites Interim Remedial Action Record of Decision, Hanford Site, Benton County, Washington*, U.S. Environmental Protection Agency, Region 10, Seattle, Washington.
- WCH, 2011a, *100-F/IU-2/IU-6 Area – Segment 4 Orphan Sites Evaluation Report*, OSR-2011-0001, Rev. 0, Washington Closure Hanford, Richland Washington.
- WCH, 2011b, *Geophysical Site Investigation Summary, 600-385 Segment 4 Transite, Concrete, and Metal Debris Area*, GI 0630605, Washington Closure Hanford, Richland, Washington.
- WCH, 2011c, *Geophysical Site Investigation Summary, SG4DH-179*, GI 0614557, Washington Closure Hanford, Richland, Washington.
- WCH, 2016a, “COPCs for the 600-385 Waste Site” CCN 181765, external email to W. Elliott, Washington State Department of Ecology, and J. Neath, U.S. Department of Energy, Richland Operations Office, from T. Q. Howell, Washington Closure Hanford, Richland, Washington, January 25.
- WCH, 2016b, “Request to Skip Backfill of Waste Site 600-385, (Regulatory Approval)” CCN 182915, external email to J. Yokel, Washington State Department of Ecology, and J. Neath, U.S. Department of Energy, Richland Operations Office, from C. D. McCurley, Washington Closure Hanford, Richland, Washington, May 12.