

## NEW SITE IDENTIFICATION (NSI)

<b>Part A – NEW SITE IDENTIFICATION INFORMATION</b> (To be completed by the Task Lead for New Site)			
1. <b>Site Title:</b> Soil in Pipe Trench West of TAN-666	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;"><b>Site Code:</b> TSF-55</td> </tr> <tr> <td style="padding: 2px;"><b>NSI Evaluation Initiation Date:</b> March 24, 2005</td> </tr> </table>	<b>Site Code:</b> TSF-55	<b>NSI Evaluation Initiation Date:</b> March 24, 2005
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<b>NSI Evaluation Initiation Date:</b> March 24, 2005			
2. <b>Task Lead For New Site:</b> Wendell Jolley	Phone: 526-5990		
3. <b>NSI Coordinator:</b> Nielsen Burch	Phone: 526-5676		
4. <b>Initiator or Initial Observer:</b> Nathan Wheldon (Portage Environmental, Inc.)	Phone: 528-6608		
<p>5. <b>Description of Suspected New Site and Location:</b></p> <p>The suspected new site is located directly west of TAN-666. Line 2" WDA-10027, transferred listed (F001), radiologically contaminated liquid wastes from the TAN-607 Decontamination Shop to the TAN-616 Evaporator via Valve Pit 2. Originally, the pipe ran west from TAN-607 about 100 feet then turned north and extended from the south end of TAN-607 to north of TAN-616, directly west of the Valve Box #2. At that point it turned east and went into Valve Box #2. Upon excavation of line 2" WDA-10027 as part of HWMA/RCRA closure activities for the Intermediate Level Radioactive Waste Management System: Treatment Subsystem (TAN-616), it was discovered that line 2" WDA-10027 was cut and capped just south of TAN-666. It was further discovered that the portion of the line elbowing around TAN-666 was made of carbon steel, as opposed to stainless steel for the remainder of the line. It is believed the carbon-steel piping was installed when the line was rerouted to accommodate the construction of the TAN-666 building. The carbon steel portion of the line was also located approximately 30 ft. further west than shown on plant drawings, with the southern portion of the east-west leg having been removed. The carbon steel pipe was cut approximately 35 ft west and 5 ft north of the southwest corner of TAN-666. The cut end of the pipe was wrapped in yellow plastic, with the 2-in. pipe narrowing to a 3/4-in. pipe. The 3/4-inch pipe extended for about 14 inches before it was capped. See Figure 1. Later, line 2" WDA-10027 was rerouted south of TAN-666 to Valve Box #1. See Attachment A for a drawing showing the location of this area.</p> <p>Since the end of the pipe was covered with yellow plastic it was suspected that increased levels of contamination may be observed. Radiological surveys of the plastic and debris read about 300,000 dpm (30,000 cpm). Biased soil samples were collected in the area in accordance with the DEQ-approved HWMA/RCRA closure plan. One soil sample was taken from each of the three locations with the highest radiological readings, and analyzed for total metals, cyanide, volatiles, semi-volatiles, radionuclides, and PCBs. A risk assessment was performed in accordance with the methodology included in the approved HWMA/RCRA closure plan (risk assessment only addressed HWMA/RCRA constituents). The results of this risk assessment showed that HWMA/RCRA regulated constituents posed a risk less than 1E-6, which is acceptable. As radionuclides were also analyzed, there are several radiological contaminants of concern which had a 95% upper confidence limit (as shown below and summarized in the Data Quality Assessment/Data Summary Report [ICP 2005, Data Quality Assessment for the HWMA/RCRA Closure of the TAN-616 Intermediate Liquid Waste Treatment Facility for the Non-FFA/CO Soils, ICP/EXT-04-00351, Revision 0, March 2005]) that was greater than the published preliminary remediation goals (PRGs) for an occupational scenario (OSWER No. 9355.01-83A). Each radionuclide and the 95% UCL for all of the radionuclides that were greater than the PRGs are listed below:</p> <p>Am-241: 6.58 pCi/g Co-60: 27.5 pCi/g Cs-137: 1110 pCi/g Eu-152: 1.78 pCi/g Eu-154: 1.82 pCi/g Ra-226: 22.3 pCi/g Sr-90: 889 pCi/g</p>			
<p>6. <b>Is the site SWMU as defined in OSWER DIRECTIVE 9502.00-6?</b>    <input checked="" type="checkbox"/> Yes    <input type="checkbox"/> No</p>			
<p>7. <b>Recommendation</b></p> <p><input type="checkbox"/> Recommend not including as a new FFA/CO site. This site DOES NOT warrant further investigation, does not meet the criteria for acceptance, and should not be included under FFA/CO Action Plan.</p> <p><input checked="" type="checkbox"/> Recommend including as new FFA/CO site. This site DOES meet the criteria for acceptance, may warrant further investigation, and should be included under FFA/CO Action Plan.</p> <p>Recommended WAG and Operable Unit to which site should be assigned:</p>			

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WAG: 10

Operable Unit: 10-08

Recommended action for this site:

No Action     No Further Action     Remedial Action under Existing ROD     Track 2     RI/FS

8. Responsible Manager Signature:

Name: Michael Hodel

Signature: *Michael P. Hodel*

Date: 5-4-05



Figure 1: Picture of the south end of the carbon steel pipe where the proposed new site is located.

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#### PART B - INEEL FFA/CO RESPONSIBLE PROGRAM MANAGERS (RPM'S) CONCURRENCE

Site Title:  
Soil in Pipe Trench West of TAN-666

Site Code:  
TSF-55

DOE-ID FFA/CO RPM Concurrence:  Concur with recommendation.  Do not concur with the recommendation.

Signature: Kathleen E Hain Date: 5/9/05

Explanation: *This site was identified during closure of a Voluntary Consent Order tank system. It should be placed in OU 10-08. The site may be addressed using the standards applied to other OU 1-10 soil sites. DOE's current goal is to complete remedial action in the TAN facility area in FY05, if possible.*

EPA FFA/CO RPM Concurrence:  Concur with recommendation.  Do not concur with the recommendation.

Signature: [Signature] Date: 5-19-05

Explanation: *Agree this site should be placed in OU-10-08.*

State of Idaho FFA/CO RPM Concurrence:  Concur with recommendation.  Do not concur with the recommendation.

Signature: [Signature] Date: 9-15-05

Explanation: *DEQ agrees that TSF-55, identified during partial closure of the Intermediate-level Radioactive Waste Management Tank System, is a release site to soils that should be addressed under the FFA/CO. This site should be placed in Operable Unit 10-08 for further evaluation of risks prior to developing a remedial action decision.*

# NEW SITE IDENTIFICATION (NSI)

## Attachment A

