

Draft RAU3 Cleanup Action Plan Available for Public Review and Comment

Ecology Wants Your Input!

The Department of Ecology (Ecology) is asking for your comments on a draft Cleanup Action Plan (CAP) for Remedial Action Unit 3 (RAU 3) at the Camp Bonneville Military Reservation site. The purpose of this fact sheet is to provide information about cleanup work planned for RAU 3, background information about Camp Bonneville, and how you can submit your comments. A separate comment period started in May for the Interim Action Work Plan in the Central Impact Target Area (CITA), which comprises a small portion of RAU 3.

Camp Bonneville is generally located five miles northeast of the city of Vancouver, in Clark County, Washington.

You are invited to:

- **Review** the CAP and State Environmental Policy Act (SEPA) determination for RAU 3. Send your comments to Ecology for consideration. Comments will be accepted June 8 through July 8, 2009. See the box on the right for details about where to review documents and submit comments.
- **Attend** an open house meeting about the cleanup. An open house has been scheduled on June 25, from 4:30-8:00 p.m. This is a chance to talk one-on-one with project staff about site documents and hear an informal presentation that will begin at 6:00 p.m.

Site Background

Camp Bonneville is almost 4,000 acres of forested land previously owned by the U.S. Army and leased from the State Department of Natural Resources. It was used from 1910 to 1995 for firing range practice, after which all military operations ended. In 2006, the site underwent an Early Transfer Process. This process involved a temporary transfer of facility ownership to the Bonneville Conservation Restoration and Renewal Team (BCRRT) to manage the cleanup. The BCRRT will maintain temporary ownership of the facility while it investigates contamination and conducts cleanup. Ecology will determine when the facility meets state cleanup requirements, after which point, ownership will be transferred back to Clark County for use as a park and wilderness conservation area.

Comments Accepted

June 8 – July 8, 2009

Submit Comments and Technical Questions to:

Ben Forson - Site Manager
WA Department of Ecology
Toxics Cleanup Program
P.O. Box 47600
Olympia, WA 98504-7600
Phone: (360) 407-7227
E-mail: bfor461@ecy.wa.gov

Open House:

June 25 from 4:30 p.m.-8:00 p.m. with a
6:00 pm presentation
Clark County Public Works Operations
Center Conference Room
4700 NE 78th Street, Vancouver, WA

DOCUMENT REVIEW LOCATIONS

Vancouver Mall Public Library
8700 NE Vancouver Mall Dr.
Suite 285
Vancouver, WA
Attn: Barbara Meisenheimer
(360) 892-8256

Washington State University Vancouver
14204 NE Salmon Creek Avenue
Vancouver, WA (360) 546-9680

WA Department of Ecology
Headquarters
300 Desmond Drive SE
Lacey, WA 98503
By appointment only:
Contact Carol Dorn,
cesg461@ecy.wa.gov or
(360) 407-7224

Ecology's Toxics Cleanup Website
http://www.ecy.wa.gov/programs/tcp/sites/camp_bonneville/camp_bonneville_hp.htm

Facility Site ID #: 5093080

RAU 3 Background

Contamination is found at specific locations throughout Camp Bonneville, which are referred to as “remedial action units” (RAU). These units were created as a way to define the locations that need to be investigated and cleaned up. Because of its history as a military training facility for over 80 years, military munitions contamination from use or disposal throughout the site include explosives, unexploded ordnance, munitions [collectively referred to as “munitions of explosive concern” (MEC)], and munitions fragments. RAU 3 covers the entire site and specifically addresses all MEC and munitions fragments found in soil throughout Camp Bonneville.

A Remedial Investigation/Feasibility Study (RI/FS) was conducted to determine the extent of contamination and preferred alternatives for cleanup actions within RAU 3. The Final RI/FS subdivided the MEC concerns of RAU 3 into eight general Remedial Work Areas requiring MEC surface and/or subsurface clearance and cleanup. These areas were identified as:

- Target Areas
- Central Impact Area and Central Impact Target Area (CITA)
- Open Burn/Open Demolition Areas
- Firing Points
- Roads and Trails
- Central Valley Floor and Associated Wetlands
- Regional Park Western Slopes Area
- Wildlife Management Area

The Camp Bonneville RAU 3 site characterization also included several interim removal and emergency actions. These time-critical actions were conducted to address risks associated with the discovery of MEC at several sites within RAU 3. Under these interim removal and emergency actions, extensive munitions cleanup has already occurred, including surface and subsurface removal and roads and trails clearance, as well as perimeter

fencing repairs and signage. For a description of cleanup actions at Camp Bonneville to date, please see the April 2009 Camp Bonneville Focus Sheet (Publication No. 09-09-064), <http://www.ecy.wa.gov/biblio/0909064.html>

A number of new site conditions have been encountered at Camp Bonneville following the Final RI/FS issuance in February 2008 resulting from findings during the interim actions. Consideration of these conditions has resulted in Ecology either: 1) changing a Remedial Work Area’s associated cleanup requirements; or 2) identifying additional Remedial Work Areas requiring cleanup. Ecology requested a Supplemental RI/FS to characterize additional MEC contamination in three existing Remedial Action Areas: Central Valley Floor (including the Environmental Study Area), Roads and Trails Buffer Zones, and Western Slopes Area. In addition, the Supplemental RI/FS identifies two additional Remedial Work Areas requiring cleanup:

- Lower DNR Road Investigation
- MEC Surface Clearance of Demolition Area 1/Landfill 4

The CAP considers findings of both the Final RI/FS and the Supplemental RI/FS, provides specific cleanup actions selected for each of the Remedial Work Areas, and details the methods employed in the selection of these cleanup actions.

Overview of the Cleanup Action Plan

The CAP describes the next steps for cleanup within RAU 3 and includes the following details:

- A site description and a description of the proposed future uses of Camp Bonneville
- A summary of the applicable laws regulations, and cleanup standards at the site
- The cleanup action components that are used site-wide and resulting from both the original and Supplemental RI/FS efforts
- Discussions of each for the Remedial Work



Camp Bonneville

Areas for RAU 3 including MEC and munitions debris findings to date; accessibility, reuse, and hazard ranking considerations; cleanup action evaluation and selection; and the recommended cleanup action.

Recommendations for cleanup actions within each of the Remedial Work Areas are based on an evaluation of site risk factors and future land uses. Based on this analysis, the CAP describes the procedures that will be used in each of the RAU 3 Remedial Work Areas to conduct surface and subsurface cleanup of MEC and munitions fragments, as well as the measures that will be taken to manage long-term risk of exposure. The actions detailed in the CAP meet the requirements of Washington State's Model Toxics Control Act (MTCA).

The CAP outlines the following cleanup actions to be taken within RAU3:

- Subsurface clearance of MEC will take place at several Remedial Work Areas. Subsurface clearance has been recommended at the following Remedial Work Areas at these depths: Central Valley Floor -14" frost depth; CITA target areas -14" frost depth; and Firing Ranges -24" depth (Mortar Firing Positions 1-6, Artillery Positions 1-7, Rifle Grenade Range, 3.5-inch Rocket Range, M203 Grenade Range).
- Surface clearance of MEC will take place at many of the Remedial Work Areas. This clearance will follow procedures described in the Final RI/FS and Supplemental RI/FS. Remedial Work Areas that will receive surface clearance include: Regional Park Western Slopes Areas; Target Areas (3.5 Rocket Grenade Range; Rifle Grenade Range, Hand Grenade Range); and Open Burn/Open Demolition Areas (Demolition Areas 1, 2, and 3).
- The CITA is planned to be expanded to the north, and a new hiking trail will be constructed well outside the new CITA fence. The lower DNR road is planned to be closed to the public. This is because

munitions debris was found next to the lower DNR road.

- Quality assurance validation of previous cleanup activities will occur in the M203 Grenade Range portion of the Target Areas.
- Institutional controls will accompany all cleanup actions within RAU 3. Institutional controls are defined as a series of measures that will help to minimize the potential for human exposure to contamination by ensuring appropriate land or resource use. Institutional controls within RAU 3 will include measures that are both site-wide and site-specific, such as deed covenants that restrict land uses, detailed mapping of contamination found during the course of cleanup, fencing, signage, a public information program, and a series of standard operating procedures for use of specific portions of the site. A detailed O&M Plan including institutional controls will be written after the site cleanup is complete.

SEPA Threshold Determination

Ecology completed a State Environmental Policy Act (SEPA) checklist and Determination of Non-Significance. Ecology determined that the proposed cleanup actions in RAU 3 will not have significant adverse environmental impacts. These documents are available for review through Ecology's website, the public library, or the BCRRT (contact Mike Gage at 360-566-6990).

What Happens Next?

Once the public comment period ends, Ecology will review and consider all comments that have been received. The Draft RAU 3 Cleanup Action Plan may be modified based upon your comments.

As future documents on the site are developed, you will be notified of additional public comment periods. For information about other Ecology public comment periods, meetings, workshops, hearings, and open houses, please visit Ecology's public events calendar at: <http://apps.ecy.wa.gov/pubcalendar/calendar.asp>



Toxics Cleanup Program

Ben Forson

PO Box 47600

Olympia, WA 98504-7600

What can you do?

Read about the cleanup in this handout.

1. To get more detailed information, review the supporting documents at the locations listed on the back page.
- 2.

Write down your comments and questions.

3. Send them to the Department of Ecology at the address shown on the back page.

4. Attend the June 25 open house at the Clark County Public Works Operations Center (see front page for information)

We appreciate your comments. *Thank you.*



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Help with other languages and formats?

If you need this publication in an alternate format, please call the Toxics Cleanup Program at (360) 407-7170. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call (877) 833-6341.

Camp Bonneville Military Reservation, Clark County, WA

Ecology Seeks Public Comment on Draft Site Cleanup Documents

**Public Comment Period:
June 8 through July 8, 2009**

Facility Site ID #: 5093080