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WM Project 10

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Mr. David W. Stevens State of Washington Department of Ecology, MS PV-11 Olympia, WA 98504

Mr. Max S. Power Joint Legislative Committee on Science and Technology Bl4 Institutions Building (AG-12) Olympia, WA 98504

Mr. Roger R. Jim, Sr., Chairman Yakima Tribal Council Yakima Indian Nation P. O. Box 151 Toppenish, WA 98948

Mr. Elwood H. Patawa, Chairman Board of Trustees Umatilla Confederated Tribes P. O. Box 638 Pendleton, OR 97801

Mr. Allen V. Pinkham, Chairman Nez Perce Tribal Executive Committee Box 305 Lapwai, ID 83540

Gentlemen:

MONTHLY TRANSMITTAL OF "SCHEDULE FOR NEAR TERM BWIP SITE CHARACTERIZATION ACTIVITIES"

Enclosed for your use is our monthly update and schedule for Site and Engineered Barriers Department activities in this precharacterization phase.

As committed, we will continue to update this information on a regular basis. Should you have any questions relative to this transmittal, please contact Mr. C. Thomas Tinsley of my staff on (509) 376-8736.

Very truly yours,

0. L. Olson, /Próject Manager Basalt Waste Isolation Project Office

BWI:CTT

Enclosure

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bcc's for letter, Olson to States/Indian Tribes, "Monthly Transmittal of Schedule for Near Term BWIP Site Characterization Activities"

> سمهی مأمورین مرجع پر مرجع

bcc, w/encl: Russell Jim, Yakima Indian Nation Ron Halfmoon, Nez Perce Tribe Ron Besser, Umatilla Confederated Tribes Wyatt Rogers, CERT Barry Gale, DOE-HQ Linda Lehman James B. Hovis F. R. Cook, NRC BWI Record Cy

bcc, w/o encl: BWI Rdg File BLT Rdg File CTT File AMCW Rdg File Archive

## SITE AND ENGINEERED BARRIERS DEPARTMENT ACTIVITIES

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Activities	Date
Site	
<ul> <li>Groundwater monitoring of boreholes DC-19, DC-20, and DC-22</li> <li>Monitoring of other boreholes</li> <li>Integrity testing, DB-14</li> <li>Integrity testing, DB-1</li> <li>Deepen Borehole 27-28</li> <li>Drill cable tool start holes, RRL-2B, RRL-2C</li> <li>Drill rotary hole RRL-2C</li> <li>Surveying gravity at magnetic stations</li> <li>Electronmicroprobe analysis of flow top samples</li> <li>X-ray diffraction analysis of flow top samples</li> <li>Modeling gravity, magnetic data</li> <li>Collection of magnetic and gravity data</li> <li>Seismic data surveillance analysis</li> <li>Lab studies on sorption and chemical dissolution</li> <li>Test Cohassett in RRL-2A</li> </ul>	Daily Weekly Complete O3/20-04/30/85 O3/18-04/01/85 O4/01-06/01/85 Jan - March Ongoing Ongoing Ongoing Ongoing Ongoing Daily O1/14-03/30/85   R3
<ul> <li>Solution Chemistry Laboratory</li> <li>Develop Method for rock analysis using ICP-AES</li> <li>Upgrade anium analysis on ion chromotography</li> <li>Develop method for analysis of groundwater tracer using HPLC</li> <li>Support to Site Department database development</li> <li>Development of method for training analysis using AA</li> <li>Procedure development</li> <li>Analysis of aqueous solution samples hydrothermal testing and groundwater sampling</li> </ul>	Ongoing Ongoing Ongoing Ongoing Ongoing Ongoing Ongoing
<u>Microcharacterization (Solids) Laboratory</u> Scanning Transmission Electron Microscope -	
<ul> <li>Analysis of flow-through run products</li> <li>Analysis of well-characterized brotite and chlorite as possible standards</li> <li>Analysis of Dickson autoclave run products</li> </ul>	Ongoing Ongoing <u>-</u> Ongoing
X-Ray Diffractometer -	
<ul> <li>Analysis of McCoy Canyon, Umtanum and high-Mg flow tops</li> <li>Analysis of flow-through run products</li> <li>Analysis of Dickson autoclave run products</li> <li>Analysis of Cohassett and Rocky Coulee flow tops</li> <li>Analysis of fault gauge</li> <li>Analysis of sedimentary interbed minerals</li> </ul>	April 1985 R3 Ongoing Ongoing Ongoing Ongoing October 1985
o Analysis of concrete samples	Ongoing   R3

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	*a 1, = , *	Activities		Date	
	Ele	ectron Microprobe -			
	0	Analysis of Cohassett and Rocky Coule	Ongoing		
	0			Ongoing	
	0	Analysis of Dickson Autoclave run pro		Ongoing	Lo
	0	Analysis of oxide minerals in Rocky (	May 1985	R	
	Rac	dioactive Hydrothermal Laboratory			
	0	Basalt and synthetic groundwater test	Ongoing		
	o Radionuclide-doped simulated Savannah River Plant Defense glass			Ongoing	
		+ basalt and synthetic groundwater	<b>C D D D D D D D D D D</b>	0.1.1	, 0
	0	Experiments are being conducted using forms in the presence of various wast (metal barriers and/or basalt)	October 1985	R	
	0	Experiments are being conducted on th	e behavior of specific	Ongoing	
	Ŭ	radionuclide, introduced individually		ongorng	
		the presence of basalt at low tempera			
	Nor	-Radioactive Hydrothermal Laboratory			
	o Hydrothermal tests on basalt + bentonite + groundwater			Ongoing	
	0	groundwater		Ongoing	
				0	
	0	Determine the solubility of selenium	Ongoing		
	ο	conditions simulating the near-field environment Evaluate Redox conditions in a hydrothermal experiment		January	
	simulating a near-field environment		oundur y		
	ο	Dehydration experiments		Ongoing	
	Was	te Package Packing Investigatory Testi	ng		R
/	о	Uniaxial compression	50 tests	Ongoing	
	õ	Brazillian tension	50 tests	Ongoing	
	õ	Direct shear	50 tests	Ongoing	
	o	4-point flexure	40 tests	Ongoing	
	0	Density	100 tests	Ongoing	
	<u>Con</u>	crete Testing Laboratory	-		
	ο	Hydraulic conductivity testing	5 tests	Ongoing	• •
	0	Heat gain testing	5	On hold	
	Bac	kfill Testing Laboratory			
	0	Hydraulic conductivity tests		Ongoing	
	o Start swelling, pressure permeameter tests			Late-March	
	0	o Possibility of (2) long-term flow through permeameter tests		Late-March	
	0	Compaction tests on bentonite/basalt r	nixes	Ongoing	