

# START

0026134 <sup>23</sup>

## MEETING MINUTES

Subject: Expedited Response Action Weekly Interface

TO: Distribution

BUILDING: 740 Stevens Building

FROM: W. L. Johnson

CHAIRMAN: G. C. Hencke 

Dept-Operation-Component	Area	Shift	Meeting Dates	Number Attending
Environmental Engineering	3000	Day	January 25, 1993	11

### Distribution

State of Washington Department of Ecology

- J. Donnelly\* fax
- L. Goldstein
- D. Goswami\*
- R. L. Hibbard
- J. Phillips\*
- D. D. Teel
- N. Uziemblo
- J. Yokel
- T. Wooley\*

U.S. Environmental Protection Agency

- P. R. Beaver B5-01
- D. R. Einan
- D. A. Faulk\*
- L. E. Gadbois
- P. S. Innis
- D. R. Sherwood

U.S. Army Corps of Engineers

- J. T. Stewart A5-20

Westinghouse Hanford Company

- L. D. Arnold B2-35
- M. V. Berriochoa B3-30
- H. D. Downey H6-27
- F. W. Gustafson\* H6-04
- W. F. Heine B2-35
- G. C. Henckel\* H6-04
- W. L. Johnson\* H6-04
- J. K. Patterson H6-27
- D. L. Sickle\* H6-27
- R. C. Roos\* H6-04
- T. M. Wintczak H6-27
- EDMC H6-08
- ERAG Route H6-04
- GCH File/LB

U.S. Department of Energy, Richland Field Office

- H. L. Chapman A5-19
- J. K. Erickson A5-19
- E. D. Goller A5-19
- R. G. McLeod A5-19
- P. M. Pak A5-19
- R. K. Stewart\* A5-19
- L. C. Treichel\* EM-442

### \*Attendees

The weekly interface meetings on the expedited response actions (ERAs) was held to status the ERAs for the U.S. Department of Energy, Richland Field Office and the regulators. The meeting was conducted in accordance with the attached agenda. Actions were formally reviewed and the attached action item list was updated. The weekly report is also attached.



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All eight ERAs were discussed and their status summarized. Ecology provided a draft letter on the Sodium Dichromate Proposal. The issue of removing sanitary landfills was discussed. DOE-HQ had questions concerning both the Sodium Dichromate and North Slope landfills. Questions concerning the process for obtaining a Record of Decision based on an expedited response were discussed with DOE-HQ indicating they would provide information on the issues within two weeks if possible.

Attachments:

1. Agenda
2. Action Item List
3. Decisions, Agreements & Commitments
4. Expedited Response Action Weekly Report, week ending 01/24/93
5. Sampling Data
6. Draft letter from Ecology concerning Sodium Dichromate

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Attachment I  
Agenda

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## WEEKLY ERA INTERFACE AGENDA

SUBJECT: STATUS OF THE EXPEDITED RESPONSE ACTIONS

DATE: January 25, 1993

- GENERAL ISSUES
  - ERA Interface Action Item review
- INDIVIDUAL PROJECT STATUS
  - 200-W Carbon Tetrachloride
    - o 1500 cfm unit delivery date 3/1/93
    - o VES restart 2/1/93
    - o GAC canister moratorium letter in final draft
    - o 500 cfm delivery 2/26/93
  - N-Springs
    - o EE/CA has been initiated
  - Sodium Dichromate
    - o Public review completed 1/7/93
    - o Comment resolution/Action Memorandum status
  - North Slope
    - o Second part sampling with backhoe delayed
    - o ERA proposal under development
    - o Exhumation of landfills
  - Pickling Acid Crib
    - o Sampling completed 12/7/92, waiting for data
  - Riverland
    - o Waiting for lab data to complete draft proposal
  - 618-11
    - o Draft characterization report, 325 work
    - o Packaging & transportation
  - 618-9 & 316-5
    - o Closure report status?
- OTHER ISSUE
- SUMMARY OF ACTION ITEMS
- SIGN-OFF ON ANY DECISIONS, AGREEMENTS, OR COMMITMENTS

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Attachment II  
Action Item List

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EXPEDITED RESPONSE ACTION INTERFACE MEETING

-ACTION ITEMS-  
January 25, 1993

ORGANIZATION

ACTION ITEM

WHC	WHC will provide RL, EPA, and Ecology copies of the GPR reports for the Riverland ERA site when it becomes available. (open) North Slope, Sodium Dichromate, and Pickling Acid reports have been provided. (open)
WHC	Provide a more detailed schedule; listing of wells; status of nuclear safety; incorporation of 618-10 as demonstration site; new home packaging. (open)
EPA	Provide information on passive emissions for CCl <sub>4</sub> . (open)
EPA	Develop procedure for inclusion in TPA handbook for transmittal of field information and sample data obtained by regulators during split sampling activities. (open)

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Attachment III  
Decisions, Agreements & Commitments

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**EXPEDITED RESPONSE ACTION INTERFACE MEETING**

**-DECISIONS, AGREEMENTS, & COMMITMENTS-  
January 25, 1993**

**DECISIONS:**

**AGREEMENTS:**

*No significant activity to report*

**COMMITMENTS:**

\_\_\_\_\_  
DOE Representative

\_\_\_\_\_  
EPA Representative

\_\_\_\_\_  
ECOLOGY Representative

*[Signature]*  
\_\_\_\_\_  
WHC Representative

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Attachement IV  
Expedited Response Action Weekly Report  
Week Ending 1/31/93

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**Weekly Report, Week Ending January 24, 1993**  
**EXPEDITED RESPONSE ACTIONS**  
**Technical and Management Contact - Wayne L. Johnson, 376-1721**  
**Environmental Division**

North Slope Expedited Response Action (PD4A1) - Sampling activities are tentatively scheduled to resume, weather allowing, the week of January 25, 1993. The sampling will complete the initial investigative activities necessary for preparing the Engineering Evaluation/Cost Analysis (EE/CA) and ERA proposal. Informal comments from the regulators indicates that there will be a recommendation to exhume the landfills located on the North Slope. This issue will be discussed at the January 25, 1993, interface meeting. The project engineer has been directed to include the scenario as a potential alternative for evaluation in the ERA proposal.

A change request has been drafted in attempt to obtain the additional funds (approximately \$340K) necessary for completing the ERA activities. The cost account plan has been revised to show where the additional funding is needed. If the additional funds are not obtained, ERA field activities planned for this summer will not be completed. However, sufficient funding exists for development and approval of the ERA proposal. Additional funds may also be requested, depending on the ERA alternative approved in the regulatory record of decision.

The geophysical survey scheduled for the week of January 11, 1993, was delayed as a result of equipment problems and has been rescheduled.

Preparation of the ERA proposal continues. Data continues to arrive from the analytical labs. Initial review of the data indicated no elevated levels of contaminants.

N-Springs Expedited Response Action (PG22A) - Preparation of the ERA proposal continues and is on schedule for internal review for the week of March 4, 1993. The modeling effort used for the proposal development was presented to RL. The model is being used as one of the evaluation criteria used in selection of the preferred alternative.

Information has been obtained which discusses the results of bench and pilot scale demonstrations of ion exchange resins designed for the selective removal of low levels of Strontium-90 from wastewater containing elevated levels of calcium, sodium and magnesium bicarbonates. The tests were performed by the Oak Ridge National Laboratory in Oak Ridge, Tennessee. The system has the potential for efficiently removing strontium from wastewater while simultaneously minimizing secondary waste generation.

618-11 Burial Ground Expedited Response Action (P2621) - PNL employees are now reviewing lab notebooks from the 325 Building and will prepare a letter report regarding 325's contribution to "what" is buried at 618-10 and 618-11. The first rough draft of the historical characterization report for 618-11 has been received and is being reviewed. Transportation and Packaging is preparing a brief presentation describing packaging options from available commercial packaging companies that could meet the needs of the 618-11 Burial Ground excavation project. The presentation will be part of the February 1, 1993, weekly interface meeting which will be primarily dedicated to the 618-11 ERA.

Sodium Dichromate Expedited Response Action (P3C1A) - Public comments were provided to RL and WHC on January 11, 1993. No change in status, the EPA and Ecology are developing responses to public comments and will prepare the action memorandum in accordance with their internal procedures.

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Riverland Expedited Response Action (PB621) - The rough draft of the proposal is 90% complete. The analytical lab data is now anticipated to be received after February 8, 1993. Upon receipt of the data the draft proposal will be finalized.

White Bluffs Pickling Acid Crib Expedited Response Action (PE62A) - Preparation of the EE/CA was initiated. EPA has requested a minimum of 20% sample validation (29 total samples). Samples with detectable values will be validated up to a maximum of 15 samples depending on the number of samples per delivery group.

Expedited Response Action Briefing Book - The first draft of the ERA briefing brochure on the ERA projects is being reviewed. The document contains color copies of photographs and brief descriptions of each of the completed and active projects. The brochure will be used as handouts during presentation, tours, etc. These pages are easily duplicated or updated as new photographs and information is available.

200 West Carbon Tetrachloride Expedited Response Action -

Problems - Due to heavy snow fall this year, the equipment required to clear the snow from drill locations has been tied up performing snow removal tasks around the site. This is delaying site preparation and initiation of drilling. Preparation of the draft conceptual model report is approximately two weeks behind schedule. However, efforts are still focused on meeting the January 29, 1993, due date.

ERA Operations

VOC/RCRA and radionuclide sample results of the activated carbon were received and the letter to DOE-HQ requesting a temporary lifting of the moratorium against shipping the canisters is in the final draft. It is estimated that the letter will be submitted to DOE-RL on January 25, 1993. No actinides were detected in the samples.

The RCRA sample results were transmitted to Greg Hopkins to provide information for designation of the spent activated carbon for transport (and compliance of DOT regulations) to Envirotrol for regeneration.

The leased 500 cfm VES unit was awarded to H2-Oil from Bend, Oregon, delivery is promised for February 26, 1993. This being the case, it was decided to assemble the spare blower and motor, procure a water separator and a support base for the above blower and assemble, skid-mounted on the ground at the Z-9 Crib. These items would be available by the first week in February thereby assuring a February start of the "lease" unit.

Fabrication and assembly of equipment to support the leased 500 cfm VES unit at the Z-9 Crib is complete. The equipment (a HEPA Trailer and a Process Trailer) has been delivered to the Z-9 Crib area.

Due to the weather conditions, stabilization of the ground around Z-9 has not been completed, but the new equipment will still be arranged and set up to enable initiating operations as soon as practical, yet be out of the way so stabilization can be completed.

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The VES at Z-1A is planned to be re-started by January 27, 1993. Since all of the well manifolds and hoses in the Z-1A Crib area were removed for stabilization (for deepening of well W18-174), and since stabilization activities cannot be initiated until the snow is gone, hoses will be connected to wells W18-87 and W18-171 (which are outside the crib area) for extraction.

Arrangements are being made with EDMC for them to assist in organization of the ERA project files/records and to establish an appropriate recordkeeping system.

### Well Field Design

Comments on the draft FY 93 wellfield design workplan are being incorporated. The plan should be available by the end of January.

The puffer unit is complete with the exception of the HEPA filter, which is being obtained from the Hanford Inventory Program. The safety analysis report has been completed.

Drilling is scheduled to begin February 1, 1993, on the first of five vapor extraction wells to enhance the existing wellfield. Well 299-W15-218 will be drilled on the north side of the 216-Z-9 Trench. The ground penetrating radar survey indicated that the proposed drill site was over rubble consisting of construction debris. The well location was moved approximately 12 feet south to avoid the debris. However, if old construction debris is encountered, it may contain asbestos, which will delay drilling while the appropriate abatement actions are undertaken.

EFS and safety staff met with PFP staff to describe the upcoming drilling operations and to discuss the proximity of 299-W15-218 to the parking lot. On January 18, 1993, EFS provided carbon tetrachloride exposure data, which allayed concerns of PFP personnel about the well drilling.

Baseline monitoring continues with monitoring on January 15, 1993, yielding few VOC detections on a high pressure day (29.4 in Hg). There was only one VOC detection in wellheads. Three soil gas probes had VOC detections (up to 6 ppm). Both cone penetrometer points had detectable VOCs (up to 262 ppm).

On January 19, 1993, during a period of moderate pressure (29.1 in Hg) there were many VOC detections. Only nine stations (out of 59 stations) did not have detectable VOCs. The wellhead high was 498 ppm at 299-W15-85, the soil-gas high was 6 ppm, and the cone penetrometer high (at SG 15-6) was 504 ppm.

The baseline monitoring network is being expanded primarily to include wells in the T tank farms area and to include soil gas probes installed in 1992 in the 216-Z-9 Trench area.

### Site Characterization (with VOC-Arid ID)

PFP Operations is to construct a contamination enclosure (greenhouse) around the work area to allow the camera inspection can begin. However, this work has not been initiated, apparently because PFP restart has higher priority. Engineering Surveillance and Testing staff are actively pursuing getting this work accomplished.

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Craig Barrington will begin researching the waste management/practices records to determine the source for the secondary maximum in the groundwater under the T tank farm area on January 25, 1993. He expects to provide the results of his work by mid-February.

Coleman Research Corporation/Blackhawk Geophysics conducted the initial phase of surface geophysical surveys at the carbon tetrachloride site from December 8, 1992, through December 16, 1992. They plan to return to the site February 8, 1993, for the next phase of data collection.

A camera survey conducted at well 299-W15-6 in 1991 is being reviewed to determine why the gross gamma logging tool could not be advanced to total depth.

Deepening of 299-W18-96 within 216-Z-18 is tentatively scheduled to begin February 1, 1993. Deepening of 299-W18-174 within 216-Z-1A is scheduled to begin March 15, 1993. Well W18-96 was logged with the spectral gamma logging tool last week. Preliminary analysis indicates no radiological contamination at the current depth.

Any carbon tetrachloride venting from the well during drilling will be diverted using a blower and collected on one of the VES granular activated charcoal GAC canisters.

A draft report on the conceptual model update is being prepared for the end of January.

#### CCl<sub>4</sub> Treatment Study

Ebasco completed a draft of the carbon tetrachloride treatment study. The study is a feasibility study with the objective of recommending a cost effective on-site treatment method to replace the present method of sending GAC canisters off-site to destroy the CCl<sub>4</sub>. The beginning point for the study assumes continued use of GAC canisters for removal of CCl<sub>4</sub> from the vadose zone. The on-site alternatives would remove the CCl<sub>4</sub> from the canisters for treatment or destruction. The GAC canisters would be campaigned through the on-site treatment system. This would provide continued CCl<sub>4</sub> removal, should the treatment system go down. The study is scheduled to be completed by Ebasco by February 5, 1993, after which WHC will finalize and submit to the regulators by February 12, 1993.

#### CCl<sub>4</sub> in Groundwater

Work on the ERA Project Plan (WHC-SD-EN-AP-117, Revision 0) is continuing. A draft for internal review is scheduled to be completed by March 1, 1993.

A meeting has been scheduled to discuss UVB recirculation well design with IEG Technologies Corp. (U.S. vendors of UVB). The IEG Technologies Corp. have indicated that they will work with WHC in designing the UVB recirculation well system for the ERA treatability test.(SJT)

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Attachment V  
Sampling Data



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DATA RESULTS TABLE

<u>SAMPLE ID</u>	<u>LOCATION</u>	<u>RESULTS</u>
Roundhouse Concrete Samples TPH Diesel Range/Gamma Spec		
B01928	Drain no. 1 (concrete)	600 ppm TPH (diesel)
B01929	Drain no. 3 (concrete)	390 ppm TPH (diesel)
B01930	Drain no. 2 (concrete)	1700-1800 ppm TPH (diesel)
B01931	B01930 Duplicate	500-570 ppm TPH (diesel)
B01932	B01930 Split	natural rad background results ***
B01933	Background Concrete	TPH (diesel) not detected
B01934	Equipment Blank	190-220 ppm TPH (diesel)
B01935	Inside Drain Pipe	VOC analysis is negative
B01936	Trip Blank	VOC analysis is negative
Munitions Cache Soil Sample Nitrate Analysis		
B01937	Composite Soil Sample	32.9 mg-Nitrates/kg (within natural background levels)
B01938	B01937 Split	***
Pesticide Container Site Soil Sample Pesticide/Herbicide Analysis		
B01939	Composite Soil Sample	Aldrin 1.4 ppm Dieldrin 2.5 ppm 4,4'-DDE 64 ppb
B01940	B01939 Split	***

\*\*\* Waiting for lab results

Samples B01928-B01931 and B01933-B01936 rad results are due Feb 8, 1993.

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	Cust ID:	BO1928	BO1929	BO1930	BO1930	BO1930	BO1930
Sample Information	RFW#:	001	002	003	003 RE	003	003 DL
	Matrix:	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
	D.F.:	10.0	10.0	1.00	100	1.00	100
	Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
						REPREP	

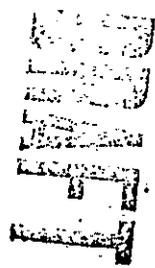
	p-Terphenyl	D %	D %	I %	D %	I %	D %
Diesel	600		390	I	→1800	I	1700

	Cust ID:	BO1931	BO1931	BO1931	BO1931	BO1931	BO1931
Sample Information	RFW#:	004	004	004 MS	004 MS	004 MSD	004 MSD
	Matrix:	SOLID	SOLID	SOLID	SOLID	SOLID	SOLID
	D.F.:	10.0	10.0	10.0	10.0	10.0	10.0
	Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			REPREP		REPREP		REPREP

	p-Terphenyl	D %	D %	D %	D %	D %	D %
Diesel	500		570	I %	I %	I %	I %

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked. % = Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. \*= Outside of EPA CLP QC

0700010



TMA NORCAL  
REPORTING GROUP 7115

DATA SHEET

N211024-01

B01932

SDG <u>7115</u>	Client <u>Vestinghouse Hanford</u>
Contact <u>Dinkar Kharkar</u>	Contract <u>MBH-SVV-069262</u>
Lab sample id <u>N211024-01</u>	Client sample id <u>B01932</u>
Dept sample id <u>7115-001</u>	Matrix <u>CONCRETE</u>
Received <u>11/02/92</u>	Collected <u>10/29/92</u>
% moisture _____	Chain of custody id <u>002556</u>

PARAMETER	CAS NO	RESULT pci/g	2σ ERR (COUNT)	MDA pci/g	RDL pci/g	QUALIFIERS	TEST
<b>GAMMA SCAN ANALYTES</b>							
Potassium 40	13966-00-2	6.9	1.8				GAM
Iron 59		U		0.26	0.050	U	GAM
Chromium 51	14392-02-0	U		1.1		U	GAM
Cobalt 60	10198-40-0	U		0.18	0.050	U	GAM
Zinc 65	17982-39-3	U		0.32		U	GAM
Ruthenium 106	13967-48-1	U		1.2		U	GAM
Cesium 134	17967-70-9	U		0.15		U	GAM
Cesium 137	10045-97-3	U		0.15	0.050	U	GAM
Europium 152	14683-23-9	U		0.54	0.10	U	GAM
Europium 154	15585-10-1	U		0.48	0.10	U	GAM
Radium 226	13982-67-7	0.54	0.24		0.10		GAM
Thorium 228	14274-82-9	0.67	0.21				GAM
Thorium 232	7440-29-1	0.50	0.48				GAM

RDLs taken from WHC1\soil

DRAFT

Lab id <u>TMAN</u>
Protocol <u>WHC-HEIS</u>
Version <u>Ver 1.0</u>
Form <u>DVD-0S</u>
Version <u>2.20</u>
Report date <u>11/11/92</u>

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

0000031

CLIENT SAMPLE NO.

BO1936

Lab Name: Roy F. Weston, Inc. Work Order: 6168-02-0

Client: WESTINGHOUSE HANFORD

Matrix: (soil/water) SOLID

Lab Sample ID: 9210L504-008

Sample wt/vol: 5.00 (g/mL) G

Lab File ID: Q110613

Level: (low/med) LOW

Date Received: 10/31/92

% Moisture: not dec. 0

Date Analyzed: 11/06/92

GC Column: SP1000 ID: 2.00(mm)

Dilution Factor: 1.00

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	1	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	8	J
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

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RFW Batch Number: 9210L504

Client: WESTINGHOUSE HANFORD

Work Order: 06168-002-001-9999-00 Page: 1

Sample Information	Cust ID:	BO1939	BO1939	BO1939	PBLK	PBLK BS
RFW#:		010	010 MS	010 MSD	92LE1874-MB1	92LE1874-MB1
Matrix:		SOLID	SOLID	SOLID	SOIL	SOIL
D.F.:		1.00	1.00	1.00	1.00	1.00
Units:		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Surrogate:	2,6-D	91 %	94 %	97 %	91 %	114 %
		fl	fl	fl	fl	fl
2,4-D		21 U	74 %	71 %	20 U	79 %
2,4,5-TP (Silvex)		11 U	76 %	80 %	10 U	85 %
2,4,5-T		11 U	80 %	79 %	10 U	89 %

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11/18/92

U= Analyzed, not detected. J= Present below detection limit. B= Present in blank. NR= Not requested. NS= Not spiked.  
 %= Percent recovery. D= Diluted out. I= Interference. NA= Not Applicable. \*= Outside of EPA CLP QC



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Attachment VI  
Draft Letter from Ecology concerning Sodium Dichromate

93120752137



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

7601 W. Clearwater, Suite 102 • Kennewick, Washington 99336 • (509) 546-2990

January 20, 1993

Mr. Robert K. Stewart  
U.S. Department of Energy  
P.O. Box 550, MSIN: A5-19  
Richland, WA 99352

Dear Mr. Stewart:

Re: Expedited Response Action (ERA) Proposal for Sodium  
Dichromate Barrel Landfill

The Washington State Department of Ecology (Ecology), along with the U.S. Environmental Protection Agency (EPA) as support agency, has completed the review of the Engineering Evaluation/Cost Analysis for the Sodium Dichromate Expedited Response Action (ERA). After reviewing the document and considering public comments, both regulatory agencies have come to an agreement on the selection of an alternative for remediation. We are recommending excavation and complete removal of all the barrels from the site and transport to an appropriate location. This alternative will meet the original intent of the ERA goal by removing all potential contamination. Also, this appears to be the only cost effective alternative to achieve an early Record of Decision (ROD). By taking this removal action, we may be able to take a no action Record of Decision.

Ecology is in the process of taking necessary steps for an "Action Memorandum" to be issued to DOE. If you have any questions, please contact me at (509)736-3015.

Sincerely,

Dib Goswami  
Unit Manager  
Nuclear & Mixed Waste Management Program

DG:sl

cc: Paul Beaver, EPA  
Tim Veneziano, WHC  
Larry Goldstein, Ecology  
Darci Teel, Ecology  
Administrative Record (Sodium Dichromate-ERA)