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**Department of Energy**  
Richland Operations Office  
P.O. Box 550  
Richland, Washington 99352

OCT 10 1995

Mr. Steve M. Alexander  
Perimeter Areas Section Manager  
Nuclear Waste Program  
State of Washington  
Department of Ecology  
1315 W. Fourth Avenue  
Kennewick, Washington 99336-6018

Dear Mr. Alexander:

**100-H AREA IN SITU REDOX MANIPULATION EXPERIMENT PURGEWATER**

The analyses for the purgewater in the 100-H Area In Situ Redox Manipulation Experiment ModuTank has been completed. All analytes are below the purgewater criteria as indicated in the table provided as Attachment 1. The U.S. Department of Energy, Richland Operations Office, is requesting concurrence from the State of Washington, Department of Ecology (Ecology), to discard the purgewater from the ModuTank as per the test plan. If this approach is agreeable to Ecology, please sign and return the attached concurrence form (Attachment 2).

If you want to discuss this matter further or require additional information, please contact me at 373-9631.

Sincerely,

Arlene C. Tortoso, Project Manager  
Groundwater Project

GWP:ACT

Attachments: As stated

- cc: R. L. Biggerstaff, ERC w/o attaches
- J. S. Fruchter, PNL w/o attaches
- L. E. Gadbois, EPA w/attach 1
- M. H. Sturges, ERC w/o attaches



## 100-H Area ISRM Final Modutank Analysis

9513388.2091

## Modutank Concentrations

Samples Collected on Tuesday, September 19

Sample #		Sulfite SO <sub>3</sub> ppm	Thiosulfate S <sub>2</sub> O <sub>3</sub> ppm	Sulfate SO <sub>4</sub> ppm	Total Sulfate (oxidized) ppm	Bromide Br ppm	Potassium K ppm	Chromium Cr ppb	Manganese Mn ppb	Zinc Zn ppb	Arsenic As ppb	Lead Pb ppb
1614	West Side	304	7.8	1760	2138	19	3020	88	13.9	293	76.1	3.8
1615	North Side	778	7.3	1150	2096	19	3000	54.5	14.1	194	84.7	2.29
1616	East Side	777	7.8	1160	2106	19.8	3280	57.8	13.9	240	73.4	2
1617	South Side	787	7.3	1160	2117	19.3	2750	58.3	14.6	196	79.2	1.48
Average		661.5	7.55	1307.5	2114	19.275	3012.5	64.65	14.125	230.75	78.35	2.3925
Purge Criteria		n/a	n/a	2500	2500	n/a	n/a	110	500	1100	480	32

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The State of Washington, Department of Ecology, has reviewed the ModuTank purgewater data and concurs with the disposal of the purgewater from the ModuTank as per the Test Plan for the 100-H Area In Situ Redox Manipulation Experiment.

CONCURRENCE:

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State of Washington, Department of Ecology

\_\_\_\_\_  
Date