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Scientific Notebook # 314 (1 of 2)
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CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

Glass Dissolution Study

Notebook 314

1 of 2

Notebook 1 of 2

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Initial Entry for Glass Dissolution Study

Scientific notebook entry for Glass Dissolution Study.

Title: Glass durability tests, both PCT test specified in ASTM C1285-97 and long-term test.

Tests Performed by: Yi-Ming Pan, Vijay Jain, Steve Clay.

Objectives: Determine the effect of salt solution on the dissolution rate of standard EA glass and simulated waste glasses.

Equipments: Type 304L test vessels, Fisher Isotemp Model 838F oven, Tekmar Type A-10 analytical mill, ATM Model L3P Sonic Sifter separator, ASTM standard sieves, Ohaus Model TS400D balance, Fisher pH meter.

Materials: DWPF standard environmental assessment glass(EA), DWPF Blend 1 waste glass, supplied by Westinghouse Savannah River Co. and WVNS Reference 6 glass supplied by West Valley Nuclear Services Co.

Measurement Parameters: pH, temperature, mass, cation content.

Required Level of Accuracy: pH: ± 0.1 pH units, temperature: ± 2.0°C, mass: 0.25% of the mass to be measured, cation content: meeting the requirements of ASTM C1109.

Uncertainty and Sources of Error: Reproducibility of the experimental variables over time such as oven temperature, sieving, leachate analyses, etc. The results from the standard EA glass will allow assessment of possible long term bias.

Yi Pan 3/19/99

Cleaning of Used Stainless Steel Vessels for PCT Tests

Cleanup of vessels was performed using ASTM C1285-97 Section 15
This batch is to be referred to as batch 3-18-99 and the following chart shows vessel ID with initial pH + silical levels after cleaning.

1-001	5.790 pH	0 ppb	x dissolution factor of 5 =	0
1-002	6.042	0		0
1-003	5.970	0		0
1-004	6.510	8		40
1-005	6.651	0		0
1-006	6.756	3		15
1-007	6.215	3		15
1-008	5.610	0		0
1-022	5.857	11		55
1-031	5.780	0		0
1-032	5.602	2		2
1-033	5.540	3		3
1-110	5.530	0		0
1-111	5.578	0		0
1-112	5.545	0		0
1-113	5.858	0		0
1-114	5.717	1		5
1-116	5.643	7		35
1-117	5.649	5		25
1-120	5.653	5		25
1-121	5.700 pH	0		0

3-29-99

Grinding Glass Specimens

Grinding glass specimens done according to ASTM 1285-97 Section 19

DWPF Blend 1 (Average) Waste Glass
40g of raw material ground, sieved and cleaned produced 16.15g +100 -200 sieve 3-22-99

DWPF Environmental Assessment Standard Reference Material
40g of raw material ground, sieved and cleaned produced 17.6g +100 -200 sieve 3-24-99

Glass Frit Beads
40g of raw glass ground, sieved, and cleaned produced 15.5g +100-200 sieve 3-24-99

3-29-99

Test Matrix for Glass Dissolution Study (SS Vessels)

Test Matrix for Glass Dissolution Study (Stainless Steel Vessels)

I. PCT Tests

Test #	Solution	Glass	#samples	Total	Test ID
1	~~Blank~~ DI water		2	2	BLANKP1,2
2	Deionized water	EA	3	5	EAP1,2,3
3	Deionized water	SRS	3	8	SRSP1,2,3
4	Deionized water	WVNS	3	11	WVNSP1,2,3

II. Long-Term Tests

Test #	Solution	Glass	#samples	Total	Test ID
1	~~Blank~~ DI water	–	2	2	BLANKL1,2
2	Deionized water	EA	3	5	EAW1,2,3
3	Deionized water	SRS	3	8	SRSW1,2,3
4	Deionized water	WVNS	3	11	WVNSW1,2,3
5	0.25 M $FeCl_2$	SRS	3	14	SRSHF2-1,2,3
6	0.25 M $FeCl_2$	WVNS	3	17	WVNSHF2-1,2,3
7	0.25 M $FeCl_3$	SRS	3	20	SRSHF3-1,2,3
8	0.25 M $FeCl_3$	WVNS	3	23	WVNSHF3-1,2,3
9	0.0025 M $FeCl_2$	SRS	3	26	SRSLF2-1,2,3
10	0.0025 M $FeCl_2$	WVNS	3	29	WVNSLF2-1,2,3
11	0.0025 $FeCl_3$	SRS	3	32	SRSLF3-1,2,3
12	0.0025 $FeCl_3$	WVNS	3	35	WVNSLF3-1,2,3

Designation of Test ID:

Eg. Test # 12 WVNS L F3 - 1

glass type — low conc. — $FeCl_3$ — test #

3-29-99

III. Additional Long-Term Tests w/o Solution Replacement (Long-Term PCT Tests)

Test #	Solution	Glass	#samples	Total	Test ID
1	Deionized water	SRS	3	3	SRSW6M1,2,3
2	Deionized water	WVNS	3	6	WVNSW6M1,2,3
3	0.25 M $FeCl_2$	SRS	3	9	SRSHF26M-1,2,3
4	0.25 M $FeCl_2$	WVNS	3	12	WVNSHF26M-1,2,3
5	0.25 M $FeCl_3$	SRS	3	15	SRSHF36M-1,2,3
6	0.25 M $FeCl_3$	WVNS	3	18	WVNSHF36M-1,2,3

IV Reference solution tests

Test #	Solution	Glass	# sample	Test ID
13	0.25M $FeCl_2$	–	2	BLANKHF2-1,2
14	0.25M $FeCl_3$	–	2	BLANKHF3-1,2

3/29/99

ASTM PCT Test Data sheets

PCT DATA SHEET

Test ID BLANK P1

Vessel ID No. 1-001 Batch Cleaning No. 3-18-99

Glass Sample ID BLANK
Sample Weight (g) N/A
Sample Preparation Date N/A

Type of Solution Type 1 water
Leachant Volume (ml) 30ml
Initial pH of Leachant 5.505

Weight of Empty Vessel (g) 265.95
Weight of Vessel + Sample (g) N/A
2nd Weight of Sample (Difference of the last two items) (g) N/A
Total Weight of Vessel + Sample + Solution (g) 295.91
Final Total Weight After Test (g) 295.89

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 3-29-99 15:05
Date and Time Test Ended (d:hr:min) 4-5-99 13:18

Final pH of Leachate 5.405
Cation Analysis No. _____ Dilution Factor _____

4-5-99

PCT DATA SHEET

Test ID BLANK P2

Vessel ID No. 1-002 Batch Cleaning No. 3-18-99

Glass Sample ID BLANK
Sample Weight (g) N/A
Sample Preparation Date N/A

Type of Solution Type 1 water
Leachant Volume (ml) 30ml
Initial pH of Leachant 5.505

Weight of Empty Vessel (g) 266.88
Weight of Vessel + Sample (g) N/A
2nd Weight of Sample (Difference of the last two items) (g) N/A
Total Weight of Vessel + Sample + Solution (g) 296.69
Final Total Weight After Test (g) 296.68

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 3-29-99 15:05
Date and Time Test Ended (d:hr:min) 4-5-99 13:18

Final pH of Leachate 5.413
Cation Analysis No. _____ Dilution Factor _____

4-5-99

PCT DATA SHEET

Test ID EA P1

Vessel ID No. 1-003 Batch Cleaning No. 3-18-99

Glass Sample ID EA
Sample Weight (g) 3.005
Sample Preparation Date 3-25-99

Type of Solution Type 1 Water
Leachant Volume (ml) 30 ml
Initial pH of Leachant 5.505

Weight of Empty Vessel (g) 274.03
Weight of Vessel + Sample (g) 277.03
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 306.39
Final Total Weight After Test (g) 306.39

Test Temperature 90°c
Date and Time Test Started (d:hr:min) 3-29-99 15:05
Date and Time Test Ended (d:hr:min) 4-5-99 13:18

Final pH of Leachate 11.872
Cation Analysis No. _____ Dilution Factor _____

4-5-99

PCT DATA SHEET

Test ID EA P2

Vessel ID No. 1-004 Batch Cleaning No. 3-18-99

Glass Sample ID EA
Sample Weight (g) 3.003
Sample Preparation Date 3-25-99

Type of Solution Type 1 Water
Leachant Volume (ml) 30 ml
Initial pH of Leachant 5.505

Weight of Empty Vessel (g) 269.89
Weight of Vessel + Sample (g) 272.89
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 302.06
Final Total Weight After Test (g) 302.03

Test Temperature 90°c
Date and Time Test Started (d:hr:min) 3-29-99 15:05
Date and Time Test Ended (d:hr:min) 4-5-99 13:18

Final pH of Leachate 11.898
Cation Analysis No. _____ Dilution Factor _____

4-5-99

PCT DATA SHEET

Test ID EA P3

Vessel ID No. 1-005 Batch Cleaning No. 3-18-99

Glass Sample ID EA
Sample Weight (g) 3.003
Sample Preparation Date 3-25-99

Type of Solution Type 1 Water
Leachant Volume (ml) 30 ml
Initial pH of Leachant 5.505

Weight of Empty Vessel (g) 273.00
Weight of Vessel + Sample (g) 276.00
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 305.44
Final Total Weight After Test (g) 305.43

Test Temperature 90°c
Date and Time Test Started (d:hr:min) 3-29-99 15:05
Date and Time Test Ended (d:hr:min) 4-5-99 13:18

Final pH of Leachate 11.905
Cation Analysis No. _____ Dilution Factor _____

4-5-99

PCT DATA SHEET

Test ID SRS P1

Vessel ID No. 1-006 Batch Cleaning No. 3-18-99

Glass Sample ID SRS
Sample Weight (g) 3.003
Sample Preparation Date 3-24-99

Type of Solution Type 1 Water
Leachant Volume (ml) 30 ml
Initial pH of Leachant 5.505

Weight of Empty Vessel (g) 273.66
Weight of Vessel + Sample (g) 276.66
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 306.01
Final Total Weight After Test (g) 305.86

Test Temperature 90°c
Date and Time Test Started (d:hr:min) 3-29-99 15:05
Date and Time Test Ended (d:hr:min) 4-5-99 13:18

Final pH of Leachate 10.527
Cation Analysis No. _____ Dilution Factor _____

4-5-99

PCT DATA SHEET

Test ID SRS P2

Vessel ID No. 1-007 Batch Cleaning No. 3-18-99

Glass Sample ID SRS
Sample Weight (g) 3.004
Sample Preparation Date 3-24-99

Type of Solution Type 1 Water
Leachant Volume (ml) 30ml
Initial pH of Leachant 5.505

Weight of Empty Vessel (g) 268.23
Weight of Vessel + Sample (g) 271.23
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 300.82
Final Total Weight After Test (g) 300.72

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 3-29-99 15:05
Date and Time Test Ended (d:hr:min) 4-5-99 13:18

Final pH of Leachate 10.510
Cation Analysis No. _____ Dilution Factor _____

4-5-99

PCT DATA SHEET

Test ID SRS P3

Vessel ID No. 1-008 Batch Cleaning No. 3-18-99

Glass Sample ID SRS
Sample Weight (g) 3.005
Sample Preparation Date 3-24-99

Type of Solution Type 1 Water
Leachant Volume (ml) 30ml
Initial pH of Leachant 5.505

Weight of Empty Vessel (g) 267.04
Weight of Vessel + Sample (g) 270.04
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 299.09
Final Total Weight After Test (g) 298.98

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 3-29-99 15:05
Date and Time Test Ended (d:hr:min) 4-5-99 13:18

Final pH of Leachate 10.518
Cation Analysis No. _____ Dilution Factor _____

4-5-99

PCT DATA SHEET

Test ID WVNS P1

Vessel ID No. 1-110 Batch Cleaning No. 3-18-99

Glass Sample ID WVNS
Sample Weight (g) 3.006
Sample Preparation Date 3-26-99

Type of Solution Type 1 Water
Leachant Volume (ml) 30 ml
Initial pH of Leachant 5.505

Weight of Empty Vessel (g) 268.13
Weight of Vessel + Sample (g) 271.13
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 300.71
Final Total Weight After Test (g) 300.67

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 3-29-99 15:05
Date and Time Test Ended (d:hr:min) 4-5-99 13:18

Final pH of Leachate 10.632
Cation Analysis No. _____ Dilution Factor _____

4-5-99

PCT DATA SHEET

Test ID WVNS P2

Vessel ID No. 1-111 Batch Cleaning No. 3-18-99

Glass Sample ID WVNS
Sample Weight (g) 3.004
Sample Preparation Date 3-26-99

Type of Solution Type 1 Water
Leachant Volume (ml) 30 ml
Initial pH of Leachant 5.505

Weight of Empty Vessel (g) 267.61
Weight of Vessel + Sample (g) 270.61
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 300.54
Final Total Weight After Test (g) 300.46

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 3-29-99 15:05
Date and Time Test Ended (d:hr:min) 4-5-99 13:18

Final pH of Leachate 10.630
Cation Analysis No. _____ Dilution Factor _____

4-5-99

PCT DATA SHEET

Test ID WVNS P3

Vessel ID No. 1-112 Batch Cleaning No. 3-18-99

Glass Sample ID WVNS
Sample Weight (g) 3.003
Sample Preparation Date 3-26-99

Type of Solution Type 1 Water
Leachant Volume (ml) 30ml
Initial pH of Leachant 5.505

Weight of Empty Vessel (g) 273.18
Weight of Vessel + Sample (g) 276.19
2nd Weight of Sample (Difference of the last two items) (g) 3.01
Total Weight of Vessel + Sample + Solution (g) 305.85
Final Total Weight After Test (g) 305.72

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 3-29-99 15:05
Date and Time Test Ended (d:hr:min) 4-5-99 13:18

Final pH of Leachate 10.631
Cation Analysis No. _____ Dilution Factor _____

4-5-99

Cleaning of Used Stainless Steel Vessels for Long-Term Tests

Cleanup of vessels was performed using ASTM C1285-97 Section 15
This batch is to be referred to as batch 4-16-99. The following chart shows vessel ID with pH + silica levels after cleaning. (Silica X 2.85 = ppb)

Vessel ID	pH	Silica		Vessel ID	pH	Silica	
I-001	5.324	5		I-037	9.590	N/A	
002	6.850	0		023	7.404	N/A	
003	6.233	249	Fail	024	8.750	N/A	
004	6.282	175	Fail	025	7.741	N/A	
005	6.032	179	Fail	026	6.340	N/A	
006	6.010	395	Fail	038	6.510	N/A	
007	5.830	244	Fail	039	8.695	N/A	
008	5.783	176	Fail	040	9.550	N/A	
110	5.760	158	Fail	125	6.650	113	Fail
111	5.816	217	Fail	126	5.740	6	
112	5.713	96	Fail	127	5.183	28	Fail
114	5.610	2		128	5.040	46	Fail
115	5.605	2		129	5.001	3	
116	5.578	4		130	5.054	15	
117	5.543	2		131	5.043	10	
118	5.370	2		132	5.110	13	
027	5.333	~~15~~ 2	4/16/99	133	5.205	10	
028	5.380	7		134	6.030	13	
029	5.389	20		135	5.950	14	
030	9.429	N/A		136	5.770	392	Fail
034	8.363	N/A		137	5.098	15	
035	9.535	N/A		138	5.069	9	
036	9.919	N/A		139	5.125	93	Fail

4-16-99

Reclean of vessels identified as batch 4-19-99 Silica x 2.85 = ppb

Vessel ID	PH	Silica
I-023	5.871	15
024	6.708	2-3
025	6.350	-2
026	6.231	15
030	6.253	-2/-3
034	5.892	~~0~~ 2 5/4/99
035	5.610	-2
036	6.262	-3/-4
037	6.032	-2
038	5.840	-1
039	5.812	-7
040	5.720	-4

5-5-99

5-5-99

Reclean of vessels identified as batch 4-16-99 that failed Silica test
Now identified as 5-7-99 Silica x 2.85 = ppb

Vessel ID	PH	Silica
I-003	6.042	13
004	6.088	4
005	5.674	8
006	5.889	16
007	5.486	14
008	5.289	3
110 5/9/99 ~~010~~	5.390	-6
111	5.583	-4
112	5.612	-6
125	5.375	-4
127	5.484	-2
128	5.485	0
136	5.579	70
139	5.330	14

	PH	Silica
Fail	5.813	7.7

5-11-99

5-9-99

Long-Term Test Data Sheets (Using SS Vessels)

LONG-TERM TEST DATA SHEET

Test ID Blank L1

Vessel ID No. I-001 Batch Cleaning No. 4-16-99

Glass Sample ID N/A
Sample Weight (g) N/A
Sample Preparation Date N/A

Type of Solution DI water
Leachant Volume (ml) 30 ml
Initial pH of Leachant 5.910

Weight of Empty Vessel (g) 265.95
Weight of Vessel + Sample (g) 265.95
2nd Weight of Sample (Difference of the last two items) (g) N/A
Total Weight of Vessel + Sample + Solution (g) 294.89

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99; 15:45

Final pH of Leachate 4.822
Cation Analysis No. 001-1 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 5/21/99; 10:52
Initial pH of Leachant 5.730 Final pH of Leachate 5.565
Cation Analysis No. 001-2 Dilution Factor ~~5.565~~ 5/24/99

2 Leachant Replacement Date and Time(d:hr:min) 5/25/99; 11:00
Initial pH of Leachant 5.712 Final pH of Leachate 5.462
Cation Analysis No. 001-3 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 5/28/99; 10:10
Initial pH of Leachant 6.056 Final pH of Leachate 5.462
Cation Analysis No. 001-4 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 6/1/99; 9:35
Initial pH of Leachant 7.502 Final pH of Leachate 5.743
Cation Analysis No. 001-5 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 6/4/99; 10:00
Initial pH of Leachant 5.517 Final pH of Leachate
Cation Analysis No. Dilution Factor

Test stopped due to vessel corrosion.

6/4/99

LONG-TERM TEST DATA SHEET

Test ID Blank L2

Vessel ID No. I-002 Batch Cleaning No. 4-16-99

Glass Sample ID N/A
Sample Weight (g) N/A
Sample Preparation Date N/A

Type of Solution DI water
Leachant Volume (ml) 30 ml
Initial pH of Leachant 5.910

Weight of Empty Vessel (g) 266.90
Weight of Vessel + Sample (g) 266.90
2nd Weight of Sample (Difference of the last two items) (g) N/A
Total Weight of Vessel + Sample + Solution (g) 295.79

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99; 15:45

Final pH of Leachate 5.322
Cation Analysis No. 002-1 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 5/21/99; 10:52
Initial pH of Leachant 5.730 Final pH of Leachate 5.697
Cation Analysis No. 002-2 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 5/25/99; 10:00
Initial pH of Leachant 5.712 Final pH of Leachate 5.962
Cation Analysis No. 002-3 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 5/28/99; 10:10
Initial pH of Leachant 6.056 Final pH of Leachate 5.861
Cation Analysis No. 002-4 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 6/1/99; ~~10:00~~ 9:35 6/01/99
Initial pH of Leachant 7.502 Final pH of Leachate 6.003
Cation Analysis No. 002-5 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 6/4/99; 10:00
Initial pH of Leachant 5.517 Final pH of Leachate
Cation Analysis No. Dilution Factor

Test stopped due to vessel corrosion.

6/4/99

LONG-TERM TEST DATA SHEET

Test ID EAW 1

Vessel ID No. I-003 Batch Cleaning No. 5-7-99

Glass Sample ID EA
Sample Weight (g) 2.998
Sample Preparation Date 5-4-99

Type of Solution DI water
Leachant Volume (ml) 30 ml
Initial pH of Leachant 5.910

Weight of Empty Vessel (g) 273.98
Weight of Vessel + Sample (g) 276.98
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 305.92

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99; 15:45

Final pH of Leachate 11.869
Cation Analysis No. 003-1 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 5/21/99; 10:52
Initial pH of Leachant 5.730 Final pH of Leachate 11.794
Cation Analysis No. 003-2 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 5/25/99; 11:00
Initial pH of Leachant 5.712 Final pH of Leachate 11.668
Cation Analysis No. 003-3 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 5/28/99; 10:10
Initial pH of Leachant 6.056 Final pH of Leachate 11.590
Cation Analysis No. 003-4 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 6/1/99; ~~10:00~~ 9:35 hw/6/1/99
Initial pH of Leachant 7.502 Final pH of Leachate 11.598
Cation Analysis No. 003-5 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 6/4/99; 10:00
Initial pH of Leachant 5.517 Final pH of Leachate
Cation Analysis No. Dilution Factor

Test stopped due to vessel corrosion.

6/4/99

LONG-TERM TEST DATA SHEET

Test ID EAW 2

Vessel ID No. I-004 Batch Cleaning No. 5-7-99

Glass Sample ID EA
Sample Weight (g) 3.001
Sample Preparation Date 5-4-99

Type of Solution DI water
Leachant Volume (ml) 30 ml
Initial pH of Leachant 5.910

Weight of Empty Vessel (g) 269.91
Weight of Vessel + Sample (g) 272.91
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 301.83

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99; 15:45

Final pH of Leachate 11.898
Cation Analysis No. 004-1 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 5/21/99; 10:52
Initial pH of Leachant 5.730 Final pH of Leachate 11.818
Cation Analysis No. 004-2 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 5/25/99; 11:00
Initial pH of Leachant 5.712 Final pH of Leachate 11.710
Cation Analysis No. 004-3 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 5/28/99; 10:10
Initial pH of Leachant 6.056 Final pH of Leachate 11.609
Cation Analysis No. 004-4 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 6/1/99; ~~10:00~~ 9:35 hw/6/1/99
Initial pH of Leachant 7.502 Final pH of Leachate 11.605
Cation Analysis No. 004-5 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 6/4/99; 10:00
Initial pH of Leachant 5.517 Final pH of Leachate
Cation Analysis No. Dilution Factor

Test Stopped due to vessel corrosion.

6/4/99

LONG-TERM TEST DATA SHEET

Test ID EAW3

Vessel ID No. I-005 Batch Cleaning No. 5-7-99

Glass Sample ID EA
Sample Weight (g) 3.000
Sample Preparation Date 5-4-99

Type of Solution DI Water
Leachant Volume (ml) 30 ml
Initial pH of Leachant 5.910

Weight of Empty Vessel (g) 273.03
Weight of Vessel + Sample (g) 276.02
2nd Weight of Sample (Difference of the last two items) (g) 2.99
Total Weight of Vessel + Sample + Solution (g) 305.09

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99; 15:45

Final pH of Leachate 11.898
Cation Analysis No. 005-1 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 5/21/99; 10:52
Initial pH of Leachant 5.730 Final pH of Leachate 11.825
Cation Analysis No. 005-2 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 5/25/99; 11:00
Initial pH of Leachant 5.712 Final pH of Leachate 11.702
Cation Analysis No. 005-3 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 5/28/99; 10:10
Initial pH of Leachant 6.056 Final pH of Leachate 11.609
Cation Analysis No. 005-4 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 6/1/99; ~~10:00~~ 9:35 NJ/6/1/99
Initial pH of Leachant 7.502 Final pH of Leachate 11.654
Cation Analysis No. 005-5 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 6/4/99; 10:00
Initial pH of Leachant 5.517 Final pH of Leachate
Cation Analysis No. Dilution Factor

Test stopped due to vessel corrosion.

[illegible] Pa
6/4/99

LONG-TERM TEST DATA SHEET

Test ID SRSW1

Vessel ID No. I-006 Batch Cleaning No. 5-7-99

Glass Sample ID SRS
Sample Weight (g) 3.001
Sample Preparation Date 5-3-99

Type of Solution DI water
Leachant Volume (ml) 30 ml
Initial pH of Leachant 5.910

Weight of Empty Vessel (g) 273.61
Weight of Vessel + Sample (g) 276.61
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 305.62

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99; 15:45

Final pH of Leachate 10.602
Cation Analysis No. 006-1 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 5/21/99; 10:52
Initial pH of Leachant 5.730 Final pH of Leachate 10.328
Cation Analysis No. 006-2 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 5/29/99; ~~5~~ 11:00
Initial pH of Leachant 5.712 Final pH of Leachate 10.167
Cation Analysis No. 006-3 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 5/28/99; 10:10
Initial pH of Leachant 6.056 Final pH of Leachate 10.066
Cation Analysis No. 006-4 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 6/1/99; ~~10:00~~ 9:35 NJ/6/1/99
Initial pH of Leachant 7.767 Final pH of Leachate 10.134
Cation Analysis No. 006-5 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 6/4/99; 10:00
Initial pH of Leachant 5.517 Final pH of Leachate
Cation Analysis No. Dilution Factor

Test stopped due to vessel corrosion.

[illegible] Pa
6/4/99

LONG-TERM TEST DATA SHEET

Test ID SRSW2

Vessel ID No. I-007 Batch Cleaning No. 5-7-99

Glass Sample ID SRS
Sample Weight (g) 3.003
Sample Preparation Date 5-3-99

Type of Solution DI water
Leachant Volume (ml) 30ml
Initial pH of Leachant 5.910

Weight of Empty Vessel (g) ~~268.20~~ 268.21 5/18/99
Weight of Vessel + Sample (g) 271.22
2nd Weight of Sample (Difference of the last two items) (g) 3.01
Total Weight of Vessel + Sample + Solution (g) 300.42

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99 ; 15:45

Final pH of Leachate 10.571
Cation Analysis No. 007-1 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 5/21/99; 10:52
Initial pH of Leachant 5.730 Final pH of Leachate 10.330
Cation Analysis No. 007-2 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 5/25/99 ; 11:00
Initial pH of Leachant 5.712 Final pH of Leachate ~~10.116~~ 10.116 6/4/99
Cation Analysis No. 007-3 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 5/28/99; 10:10
Initial pH of Leachant 6.056 Final pH of Leachate 10.070
Cation Analysis No. 007-4 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 6/1/99 ; ~~10:00~~ 9:35 NJ/6/1/99
Initial pH of Leachant 7.502 Final pH of Leachate 10.027
Cation Analysis No. 007-5 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 6/4/99; 10:00
Initial pH of Leachant 5.517 Final pH of Leachate
Cation Analysis No. Dilution Factor

Test stopped due to vessel corrosion.

M Pan
6/4/99

LONG-TERM TEST DATA SHEET

Test ID SRSW3

Vessel ID No. I-008 Batch Cleaning No. 5-7-99

Glass Sample ID SRS
Sample Weight (g) 3.003
Sample Preparation Date 5-3-99

Type of Solution DI water
Leachant Volume (ml) 30ml
Initial pH of Leachant 5.910

Weight of Empty Vessel (g) 267.05
Weight of Vessel + Sample (g) 270.06
2nd Weight of Sample (Difference of the last two items) (g) 3.01
Total Weight of Vessel + Sample + Solution (g) 299.12

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99 ; 15:45

Final pH of Leachate 10.588
Cation Analysis No. 008-1 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 5/21/99 ; 10:52
Initial pH of Leachant 5.730 Final pH of Leachate 10.324
Cation Analysis No. 008-2 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 5/25/99 ; 1100
Initial pH of Leachant 5.712 Final pH of Leachate 10.117
Cation Analysis No. 008-3 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 5/28/99; 10:10
Initial pH of Leachant 6.056 Final pH of Leachate 10.095
Cation Analysis No. 008-4 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 6/1/99 ; ~~10:00~~ 9:35 NJ/6/1/99
Initial pH of Leachant 7.502 Final pH of Leachate 10.032
Cation Analysis No. 008-5 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 6/4/99; 10:00
Initial pH of Leachant 5.517 Final pH of Leachate
Cation Analysis No. Dilution Factor

Test stopped due to vessel corrosion.

M Pan
6/4/99

LONG-TERM TEST DATA SHEET

Test ID WVNSW1

Vessel ID No. I-110 Batch Cleaning No. 5-7-99

Glass Sample ID WVNS
Sample Weight (g) 3.005
Sample Preparation Date 5-3-99

Type of Solution DI Water
Leachant Volume (ml) 30ml
Initial pH of Leachant 5.910

Weight of Empty Vessel (g) 268.13
Weight of Vessel + Sample (g) 271.13
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 300.36

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99; 15:45

Final pH of Leachate 10.525
Cation Analysis No. 110-1 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 5/21/99; 10:52
Initial pH of Leachant 5.730 Final pH of Leachate 10.299
Cation Analysis No. 110-2 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 5/25/99; 11:00
Initial pH of Leachant 5.712 Final pH of Leachate 10.230
Cation Analysis No. 110-3 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 5/28/99; 10:10
Initial pH of Leachant 6.056 Final pH of Leachate 10.205
Cation Analysis No. 110-4 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 6/1/99; ~~10:00~~ 9:35 NW/6/1/99
Initial pH of Leachant 7.502 Final pH of Leachate 10.177
Cation Analysis No. 110-5 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 6/4/99; 10:00
Initial pH of Leachant 5.517 Final pH of Leachate
Cation Analysis No. Dilution Factor

Test stopped due to vessel corrosion.

6/4/99

LONG-TERM TEST DATA SHEET

Test ID WVNSW2

Vessel ID No. I-111 Batch Cleaning No. 5-7-99

Glass Sample ID WVNS
Sample Weight (g) 3.004
Sample Preparation Date 5-3-99

Type of Solution DI Water
Leachant Volume (ml) 30ml
Initial pH of Leachant 5.910

Weight of Empty Vessel (g) 267.61
Weight of Vessel + Sample (g) 270.61
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 299.74

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99; 15:45

Final pH of Leachate 10.489
Cation Analysis No. 111-1 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 5/21/99; 10:52
Initial pH of Leachant 5.730 Final pH of Leachate 10.354
Cation Analysis No. 111-2 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 5/25/99; 11:00
Initial pH of Leachant 5.712 Final pH of Leachate 10.201
Cation Analysis No. 111-3 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 5/28/99; 10:10
Initial pH of Leachant 6.056 Final pH of Leachate 10.191
Cation Analysis No. 111-4 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 6/1/99; ~~10:00~~ 9:35 NW/6/1/99
Initial pH of Leachant 7.502 Final pH of Leachate 10.006
Cation Analysis No. 111-5 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 6/4/99; 10:00
Initial pH of Leachant 5.517 Final pH of Leachate
Cation Analysis No. Dilution Factor

Test stopped due to vessel corrosion.

6/4/99

LONG-TERM TEST DATA SHEET

Test ID WVNSW3

Vessel ID No. I-112 Batch Cleaning No. 5-7-99

Glass Sample ID WVNS
Sample Weight (g) 3.004
Sample Preparation Date 5-3-99

Type of Solution DI Water
Leachant Volume (ml) 30ml
Initial pH of Leachant 5.910

Weight of Empty Vessel (g) 273.21
Weight of Vessel + Sample (g) 276.21
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 305.36

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99 ; 15:45

Final pH of Leachate 10.533
Cation Analysis No. 112-1 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 5/21/99 ; 10:52
Initial pH of Leachant 5.730 Final pH of Leachate 10.401
Cation Analysis No. 112-2 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 5/25/99 ; 11:00
Initial pH of Leachant 5.712 Final pH of Leachate 10.194
Cation Analysis No. 112-3 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 5/28/99; 10:10
Initial pH of Leachant 6.056 Final pH of Leachate 10.191
Cation Analysis No. 112-4 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 6/1/99 ; ~~10:00~~ 9:35 KW/6/1/99
Initial pH of Leachant 7.502 Final pH of Leachate 10.172
Cation Analysis No. 112-5 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 6/4/99; 10:00
Initial pH of Leachant 5.517 Final pH of Leachate
Cation Analysis No. Dilution Factor

Test stopped due to vessel corrosion.

[illegible] 6/4/99

LONG-TERM TEST DATA SHEET

Test ID SRSHF2-1

Vessel ID No. I-113 Batch Cleaning No. 3-18-99

Glass Sample ID SRS
Sample Weight (g) 3.002
Sample Preparation Date 5-3-99

Type of Solution .25M $FeCl_2$
Leachant Volume (ml) 30ml
Initial pH of Leachant 2.636

Weight of Empty Vessel (g) 269.40
Weight of Vessel + Sample (g) 272.40
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 302.15

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99 ; 15:45

Final pH of Leachate 3.330
Cation Analysis No. 113-1 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 5/21/99 ; 10:52
Initial pH of Leachant 2.646 Final pH of Leachate 3.578
Cation Analysis No. 113-2 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 5/25/99
Initial pH of Leachant 2.603 Final pH of Leachate 3.093
Cation Analysis No. 113-3 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 5/28/99; 10:10
Initial pH of Leachant 2.501 Final pH of Leachate 3.306
Cation Analysis No. 113-4 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 6/1/99 ; ~~10:00~~ 9:35 KW 6/1/99
Initial pH of Leachant 2.458 Final pH of Leachate 3.227
Cation Analysis No. 113-5 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 6/4/99; 10:00
Initial pH of Leachant 2.392 Final pH of Leachate
Cation Analysis No. Dilution Factor

Test stopped due to vessel corrosion.

[illegible] 6/4/99

LONG-TERM TEST DATA SHEET

Test ID SRSHFZ-2

Vessel ID No. I-114 Batch Cleaning No. 4-16-99

Glass Sample ID SRS
Sample Weight (g) 3.000
Sample Preparation Date 5-3-99

Type of Solution .25 M $FeCl_2$
Leachant Volume (ml) 30ml
Initial pH of Leachant 2.636

Weight of Empty Vessel (g) 271.72
Weight of Vessel + Sample (g) 274.72
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 304.54

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99 ; 15:45

Final pH of Leachate 2.812
Cation Analysis No. 114-1 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 5/21/99 ; 10:52
Initial pH of Leachant 2.646 Final pH of Leachate 3.060
Cation Analysis No. 114-2 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 5/25/99 ; 11:00
Initial pH of Leachant 2.603 Final pH of Leachate 3.062
Cation Analysis No. 114-3 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 5/28/99 ; 10:10
Initial pH of Leachant 2.501 Final pH of Leachate 3.390
Cation Analysis No. 114-4 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 6/1/99 ; ~~10:10~~ P.D. 6/1/99 9:35
Initial pH of Leachant 2.458 Final pH of Leachate N/A Leachant evap, possible seal,
Cation Analysis No. 114-5 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 6/4/99 ; 10:00
Initial pH of Leachant 2.392 Final pH of Leachate
Cation Analysis No. Dilution Factor

Test stopped due to vessel corrosion.

M. Pan
6/4/99

LONG-TERM TEST DATA SHEET

Test ID SRSHFZ-3

Vessel ID No. I-115 Batch Cleaning No. 4-16-99

Glass Sample ID SRS
Sample Weight (g) 3.000
Sample Preparation Date 5-3-99

Type of Solution .25 M $FeCl_2$
Leachant Volume (ml) 30 ml
Initial pH of Leachant 2.636

Weight of Empty Vessel (g) 273.25
Weight of Vessel + Sample (g) 276.25
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 306.02

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99 ; 15:45

Final pH of Leachate 2.680
Cation Analysis No. 115-1 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 5/21/99 ; 10:52
Initial pH of Leachant 2.646 Final pH of Leachate 2.754
Cation Analysis No. 115-2 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 5/25/99 ; 11:00
Initial pH of Leachant 2.603 Final pH of Leachate 2.930
Cation Analysis No. 115-3 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 5/28/99 ; 10:10
Initial pH of Leachant 2.501 Final pH of Leachate 3.303
Cation Analysis No. 115-4 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 6/1/99 ; ~~10:10~~ P.D. 6/1/99 9:35
Initial pH of Leachant 2.458 Final pH of Leachate 2.960
Cation Analysis No. 115-5 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 6/4/99 ; 10:00
Initial pH of Leachant 2.392 Final pH of Leachate
Cation Analysis No. Dilution Factor

Test stopped due to vessel corrosion.

M. Pan
6/4/99

LONG-TERM TEST DATA SHEET

Test ID WVNS HF2-1

Vessel ID No. I-116 Batch Cleaning No. 4-16-99

Glass Sample ID WVNS
Sample Weight (g) 2.999
Sample Preparation Date 5-3-99

Type of Solution .25 M $FeCl_2$
Leachant Volume (ml) 30 ml
Initial pH of Leachant 2.636

Weight of Empty Vessel (g) 273.02
Weight of Vessel + Sample (g) 276.02
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 305.76

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99; 15:45

Final pH of Leachate 3.041
Cation Analysis No. 116-1 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 5/21/99; 10:52
Initial pH of Leachant 2.646 Final pH of Leachate 3.613
Cation Analysis No. 116-2 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 5/25/99; 11:00
Initial pH of Leachant 2.603 Final pH of Leachate 3.368
Cation Analysis No. 116-3 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 5/28/99; 10:10
Initial pH of Leachant 2.501 Final pH of Leachate 3.476
Cation Analysis No. 116-4 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 6/1/99; ~~10:10~~ 9:35 6/1/99
Initial pH of Leachant 2.458 Final pH of Leachate 3.526
Cation Analysis No. 116-5 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 6/4/99; 10:00
Initial pH of Leachant 2.392 Final pH of Leachate
Cation Analysis No. Dilution Factor

Test stopped due to vessel corrosion.

6/4/99

LONG-TERM TEST DATA SHEET

Test ID WVNS HF2-2

Vessel ID No. I-117 Batch Cleaning No. 4-16-99

Glass Sample ID WVNS
Sample Weight (g) 3.002
Sample Preparation Date 5-3-99

Type of Solution .25 M $FeCl_2$
Leachant Volume (ml) 30 ml
Initial pH of Leachant 2.636

Weight of Empty Vessel (g) 265.04
Weight of Vessel + Sample (g) 268.04
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 297.78

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99; 15:45

Final pH of Leachate 2.975
Cation Analysis No. 117-1 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 5/21/99; 10:52
Initial pH of Leachant 2.646 Final pH of Leachate 3.673
Cation Analysis No. 117-2 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 5/25/99; 11:00
Initial pH of Leachant 2.603 Final pH of Leachate 3.058
Cation Analysis No. 117-3 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 5/28/99; 10:10
Initial pH of Leachant 2.501 Final pH of Leachate 3.428
Cation Analysis No. 117-4 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 6/1/99; ~~10:10~~ 9:35 6/1/99
Initial pH of Leachant 2.458 Final pH of Leachate 3.462
Cation Analysis No. 117-5 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 6/4/99; 10:00
Initial pH of Leachant 2.392 Final pH of Leachate
Cation Analysis No. Dilution Factor

Test stopped due to vessel corrosion.

6/4/99

LONG-TERM TEST DATA SHEET

Test ID WVNSHF2-3

Vessel ID No. I-118 Batch Cleaning No. 4-16-99

Glass Sample ID WVNS
Sample Weight (g) 3.000
Sample Preparation Date 5-3-99

Type of Solution .25 M FeCl2
Leachant Volume (ml) 30 ml
Initial pH of Leachant 2.636

Weight of Empty Vessel (g) 268.87
Weight of Vessel + Sample (g) 271.87
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 301.83

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99 ; 15:45

Final pH of Leachate 2.711
Cation Analysis No. 118-1 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 5/21/99 ; 10:52
Initial pH of Leachant 2.646 Final pH of Leachate 3.567
Cation Analysis No. 118-2 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 5/25/99 ; 11:00
Initial pH of Leachant 2.603 Final pH of Leachate 3.158
Cation Analysis No. 118-3 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 5/28/99 ; 10:10
Initial pH of Leachant 2.501 Final pH of Leachate 3.502
Cation Analysis No. 118-4 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 6/1/99 ; ~~10:00~~ 9:35 MW 6/1/99
Initial pH of Leachant 2.458 Final pH of Leachate 3.505
Cation Analysis No. 118-5 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 6/4/99 ; 10:00
Initial pH of Leachant 2.392 Final pH of Leachate
Cation Analysis No. Dilution Factor

Test Stopped due to vessel corrosion.

6/4/99

LONG-TERM TEST DATA SHEET

Test ID SRSHF3-1

Vessel ID No. I-120 Batch Cleaning No. 3-18-99

Glass Sample ID SRS
Sample Weight (g) 3.004
Sample Preparation Date 5-3-99

Type of Solution .25 M $FeCl_3$
Leachant Volume (ml) 30 ml
Initial pH of Leachant 1.532

Weight of Empty Vessel (g) 270.99
Weight of Vessel + Sample (g) 273.99
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 304.08

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99 ; 15:45

Final pH of Leachate 2.104
Cation Analysis No. 120-1 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 5/21/99 ; 10:52
Initial pH of Leachant 1.555 Final pH of Leachate 2.121
Cation Analysis No. 120-2 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 5/25/99 ; 11:00
Initial pH of Leachant 1.558 Final pH of Leachate 1.791
Cation Analysis No. 120-3 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 5/28/99 ; 10:10
Initial pH of Leachant ~~2.501~~ MB 5/28/99 1.548 Final pH of Leachate 2.018
Cation Analysis No. 120-4 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 6/1/99 ; ~~10:00~~ 9:35 MW 6/1/99
Initial pH of Leachant 1.503 Final pH of Leachate 1.826
Cation Analysis No. 120-5 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 6/4/99 ; 10:00
Initial pH of Leachant 1.519 Final pH of Leachate
Cation Analysis No. Dilution Factor

Test Stopped due to vessel corrosion.

6/4/99

LONG-TERM TEST DATA SHEET

Test ID SRS HF3-2

Vessel ID No. I-121 Batch Cleaning No. 3-18-99

Glass Sample ID SRS
Sample Weight (g) 3.005
Sample Preparation Date 5-3-99

Type of Solution .25M $FeCl_3$
Leachant Volume (ml) 30ml
Initial pH of Leachant 1.532

Weight of Empty Vessel (g) 263.40
Weight of Vessel + Sample (g) 266.40
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 296.51

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99; 15:45

Final pH of Leachate 2.145
Cation Analysis No. 121-1 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 5/21/99; 10:52
Initial pH of Leachant 1.555 Final pH of Leachate 2.129
Cation Analysis No. 121-2 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 5/25/99; 11:00
Initial pH of Leachant 1.558 Final pH of Leachate 1.753
Cation Analysis No. 121-3 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 5/28/99; 10:10
Initial pH of Leachant 1.548 Final pH of Leachate 2.003
Cation Analysis No. 121-4 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 6/1/99; ~~10:00~~ 9:35 6/1/99
Initial pH of Leachant 1.503 Final pH of Leachate 1.911
Cation Analysis No. 121-5 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 6/4/99; 10:00
Initial pH of Leachant 1.519 Final pH of Leachate
Cation Analysis No. Dilution Factor

Test stopped due to vessel corrosion.

6/4/99

LONG-TERM TEST DATA SHEET

Test ID SRS HF3-3

Vessel ID No. I-022 Batch Cleaning No. 3-18-99

Glass Sample ID SRS
Sample Weight (g) 3.000
Sample Preparation Date 5-3-99

Type of Solution .25M $FeCl_3$
Leachant Volume (ml) 30ml
Initial pH of Leachant 1.532

Weight of Empty Vessel (g) 267.19
Weight of Vessel + Sample (g) 270.19
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 300.32

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99; 15:45

Final pH of Leachate 2.174
Cation Analysis No. 022-1 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 5/21/99; 10:52
Initial pH of Leachant 1.555 Final pH of Leachate 2.200
Cation Analysis No. 022-2 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 5/25/99; 11:00
Initial pH of Leachant 1.558 Final pH of Leachate 1.724
Cation Analysis No. 022-3 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 5/28/99; 10:10
Initial pH of Leachant 1.548 Final pH of Leachate 2.054
Cation Analysis No. 022-4 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 6/1/99; ~~10:00~~ 9:35 6/1/99
Initial pH of Leachant 1.503 Final pH of Leachate 1.923
Cation Analysis No. 022-5 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 6/4/99; 10:00
Initial pH of Leachant 1.519 Final pH of Leachate
Cation Analysis No. Dilution Factor

Test stopped due to vessel corrosion.

6/4/99

LONG-TERM TEST DATA SHEET

Test ID WVNS HF3-1

Vessel ID No. I-023 Batch Cleaning No. 4-19-99

Glass Sample ID WVNS
Sample Weight (g) 3.003
Sample Preparation Date ~~1.532~~ MC 5-3-99

Type of Solution .25 M $FeCl_3$
Leachant Volume (ml) 30 ml
Initial pH of Leachant 1.532

Weight of Empty Vessel (g) 267.45
Weight of Vessel + Sample (g) 270.45
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 300.28

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99; 15:45

Final pH of Leachate 2.220
Cation Analysis No. 023-1 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 5/21/99; 10:52
Initial pH of Leachant 1.555 Final pH of Leachate 2.384
Cation Analysis No. 023-2 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 5/25/99; 11:00
Initial pH of Leachant 1.558 Final pH of Leachate 1.871
Cation Analysis No. 023-3 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 5/28/99; 10:10
Initial pH of Leachant 1.548 Final pH of Leachate 2.205
Cation Analysis No. 023-4 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 6/1/99; ~~10:00~~ 9:35 NW/6/1/99
Initial pH of Leachant 1.503 Final pH of Leachate 1.987
Cation Analysis No. 023-5 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 6/4/99; 10:00
Initial pH of Leachant 1.519 Final pH of Leachate
Cation Analysis No. Dilution Factor

Test stopped due to vessel corrosion.

6/4/99

LONG-TERM TEST DATA SHEET

Test ID WVNS HF3-2

Vessel ID No. I-024 Batch Cleaning No. 4-19-99

Glass Sample ID WVNS
Sample Weight (g) 3.003
Sample Preparation Date 5-3-99

Type of Solution .25 M $FeCl_3$
Leachant Volume (ml) 30 ml
Initial pH of Leachant 1.532

Weight of Empty Vessel (g) 267.27
Weight of Vessel + Sample (g) 270.27
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 300.51

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99; 15:45

Final pH of Leachate 2.138
Cation Analysis No. 024-1 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 5/21/99; 10:52
Initial pH of Leachant 1.555 Final pH of Leachate 2.311
Cation Analysis No. 024-2 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 5/25/99; 11:00
Initial pH of Leachant 1.558 Final pH of Leachate 1.828
Cation Analysis No. 024-3 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 5/28/99; 10:10
Initial pH of Leachant 1.548 Final pH of Leachate 2.211
Cation Analysis No. 024-4 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 6/1/99; ~~10:00~~ 9:35 NW/6/1/99
Initial pH of Leachant 1.503 Final pH of Leachate 1.875
Cation Analysis No. 024-5 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 6/4/99; 10:00
Initial pH of Leachant 1.519 Final pH of Leachate
Cation Analysis No. Dilution Factor

Test stopped due to vessel corrosion.

6/4/99

LONG-TERM TEST DATA SHEET

Test ID WVNS HF3-3

Vessel ID No. I-025 Batch Cleaning No. 4-19-99

Glass Sample ID WVNS
Sample Weight (g) 3.003
Sample Preparation Date 5-3-99

Type of Solution .25 M FeCl3
Leachant Volume (ml) 30 ml
Initial pH of Leachant 1.532

Weight of Empty Vessel (g) 265.98
Weight of Vessel + Sample (g) 268.98
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 299.08

Test Temperature 90 °C
Date and Time Test Started (d:hr:min) 5/18/99 ; 15:45

Final pH of Leachate 2.169
Cation Analysis No. 025-1 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 5/21/99 ; 10:52
Initial pH of Leachant 1.555 Final pH of Leachate 2.316
Cation Analysis No. 025-2 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 5/25/99 ; 11:00
Initial pH of Leachant 1.558 Final pH of Leachate 1.960
Cation Analysis No. 025-3 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 5/28/99; 10:10
Initial pH of Leachant 1.548 Final pH of Leachate 2.143
Cation Analysis No. 025-4 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 6/1/99 ; ~~10:00~~ 9:35 KW/6/1/99
Initial pH of Leachant 1.503 Final pH of Leachate 1.870
Cation Analysis No. 025-5 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 6/4/99 ; 10:00
Initial pH of Leachant 1.519 Final pH of Leachate
Cation Analysis No. Dilution Factor

Test stopped due to vessel corrosion.

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6/4/99

LONG-TERM TEST DATA SHEET

Test ID SRS LF2-1

Vessel ID No. I-026 Batch Cleaning No. 4-19-99

Glass Sample ID SRS
Sample Weight (g) 3.000
Sample Preparation Date 5-3-99

Type of Solution .0025 M FeCl2
Leachant Volume (ml) 30 ml
Initial pH of Leachant 3.786

Weight of Empty Vessel (g) 265.65
Weight of Vessel + Sample (g) 268.65
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 297.83

Test Temperature 90 °C
Date and Time Test Started (d:hr:min) 5/18/99 ; 15:45

Final pH of Leachate 8.336
Cation Analysis No. 026-1 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 5/21/99 ; 10:52
Initial pH of Leachant 3.791 Final pH of Leachate 6.834
Cation Analysis No. 026-2 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 5/25/99 ; 11:00
Initial pH of Leachant 3.744 Final pH of Leachate ~~3.736~~ AB 5/28/99 3
Cation Analysis No. 026-3 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 5/28/99; 10:10
Initial pH of Leachant 3.736 Final pH of Leachate 6.066
Cation Analysis No. 026-4 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 6/1/99 ; ~~10:00~~ 9:35 KW/6/1/99
Initial pH of Leachant 3.715 Final pH of Leachate 5.854
Cation Analysis No. 026-5 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 6/4/99; 10:00
Initial pH of Leachant 3.685 Final pH of Leachate
Cation Analysis No. Dilution Factor

Test stopped due to vessel corrosion.

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6/4/99

LONG-TERM TEST DATA SHEET

Test ID SRSLF2-2

Vessel ID No. I-027 Batch Cleaning No. 4-16-99

Glass Sample ID SRS
Sample Weight (g) 2.999
Sample Preparation Date 5-3-99

Type of Solution .0025 M FeCl2
Leachant Volume (ml) 30 ml
Initial pH of Leachant 3.786

Weight of Empty Vessel (g) 266.06
Weight of Vessel + Sample (g) 269.05
2nd Weight of Sample (Difference of the last two items) (g) 2.99
Total Weight of Vessel + Sample + Solution (g) 298.37

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99; 15:45

Final pH of Leachate 8.391
Cation Analysis No. 027-1 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 5/21/99; 10:52
Initial pH of Leachant 3.791 Final pH of Leachate 7.729
Cation Analysis No. 027-2 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 5/25/99; 11:00
Initial pH of Leachant 3.744 Final pH of Leachate 3.308
Cation Analysis No. 027-3 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 5/28/99; 10:10
Initial pH of Leachant 3.736 Final pH of Leachate 6.745
Cation Analysis No. 027-4 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 6/1/99; ~~10:00~~ 9:35 KJ/6/1/99
Initial pH of Leachant 3.715 Final pH of Leachate 6.182
Cation Analysis No. 027-5 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 6/4/99; 10:00
Initial pH of Leachate
Initial pH of Leachant 3.685 Final pH of Leachate
Cation Analysis No. Dilution Factor

Test stopped due to vessel corrosion.

[illegible] 6/4/99

LONG-TERM TEST DATA SHEET

Test ID SRSLF2-3

Vessel ID No. I-028 Batch Cleaning No. 4-16-99

Glass Sample ID SRS
Sample Weight (g) 2.999
Sample Preparation Date 5-3-99

Type of Solution .0025 M FeCl2
Leachant Volume (ml) 30 ml
Initial pH of Leachant 3.786

Weight of Empty Vessel (g) 267.30
Weight of Vessel + Sample (g) 270.29
2nd Weight of Sample (Difference of the last two items) (g) 2.99
Total Weight of Vessel + Sample + Solution (g) 299.90

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99; 15:45

Final pH of Leachate 8.494
Cation Analysis No. 028-1 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 5/21/99; 10:52
Initial pH of Leachant 3.791 Final pH of Leachate 7.960
Cation Analysis No. 028-2 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 5/25/99; 11:00
Initial pH of Leachant 3.744 Final pH of Leachate 4.044
Cation Analysis No. 028-3 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 5/28/99; 10:10
Initial pH of Leachant 3.736 Final pH of Leachate 7.252
Cation Analysis No. 028-4 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 6/1/99; ~~10:00~~ 9:35 KJ/6/1/99
Initial pH of Leachant 3.715 Final pH of Leachate 6.613
Cation Analysis No. 028-5 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 6/4/99; 10:00
Initial pH of Leachant 3.685 Final pH of Leachate
Cation Analysis No. Dilution Factor

Test stopped due to vessel corrosion.

[illegible] 6/4/99

LONG-TERM TEST DATA SHEET

Test ID WVNSLF2-1

Vessel ID No. I-029 Batch Cleaning No. 4-16-99

Glass Sample ID WVNS
Sample Weight (g) 3.002
Sample Preparation Date ~~3.786~~ 5-3-99 5/3/99

Type of Solution .0025 M FeCl2
Leachant Volume (ml) 30 ml
Initial pH of Leachant 3.786

Weight of Empty Vessel (g) 265.87
Weight of Vessel + Sample (g) 268.87
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 298.05

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99; 15:45

Final pH of Leachate 9.046
Cation Analysis No. 029-1 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 5/21/99; 10:52
Initial pH of Leachant 3.791 Final pH of Leachate 8.896
Cation Analysis No. 029-2 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 5/25/99; 11:00
Initial pH of Leachant 3.744 Final pH of Leachate 3.768
Cation Analysis No. 029-3 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 5/20/99; 10:10
Initial pH of Leachant 3.736 Final pH of Leachate 8.319
Cation Analysis No. 029-4 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 6/1/99; ~~10:00~~ 9:35 KW/6/1/99
Initial pH of Leachant 3.715 Final pH of Leachate 8.502
Cation Analysis No. 029-5 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 6/4/99; 10:00
Initial pH of Leachate 3.685 Final pH of Leachate
Cation Analysis No. Dilution Factor

Test stopped due to vessel corrosion.

[illegible] 6/4/99

LONG-TERM TEST DATA SHEET

Test ID WVNSLF2-2

Vessel ID No. I-030 Batch Cleaning No. 4-19-99

Glass Sample ID WVNS
Sample Weight (g) 3.003
Sample Preparation Date ~~3.786~~ 5-3-99 5/3/99

Type of Solution .0025 M FeCl2
Leachant Volume (ml) 30 ml
Initial pH of Leachant 3.786

Weight of Empty Vessel (g) 266.64
Weight of Vessel + Sample (g) 269.64
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 298.75

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99; 15:45

Final pH of Leachate 9.043
Cation Analysis No. 030-1 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 5/21/99; 10:52
Initial pH of Leachant 3.791 Final pH of Leachate 8.911
Cation Analysis No. 030-2 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 5/25/99; 11:00
Initial pH of Leachant 3.744 Final pH of Leachate 3.729
Cation Analysis No. 030-3 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 5/28/99; 10:10
Initial pH of Leachant 3.736 Final pH of Leachate 8.398
Cation Analysis No. 030-4 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 6/1/99; ~~10:00~~ 9:35 KW/6/1/99
Initial pH of Leachant 3.715 Final pH of Leachate 8.561
Cation Analysis No. 030-5 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 6/4/99; 10:00
Initial pH of Leachant 3.685 Final pH of Leachate
Cation Analysis No. Dilution Factor

Test stopped due to vessel corrosion.

[illegible] 6/4/99

LONG-TERM TEST DATA SHEET

Test ID WVNSLF2-3

Vessel ID No. I-031 Batch Cleaning No. 3-18-99

Glass Sample ID WVNS
Sample Weight (g) 3.002
Sample Preparation Date ~~3.786~~ 5-3-99 5/3/99

Type of Solution .0025 M FeCl2
Leachant Volume (ml) 30 ml
Initial pH of Leachant 3.786

Weight of Empty Vessel (g) 265.47
Weight of Vessel + Sample (g) 268.47
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 297.61

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99 ; 15:45

Final pH of Leachate 9.041
Cation Analysis No. 031-1 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 5/21/99 ; 10:52
Initial pH of Leachant 3.791 Final pH of Leachate 8.922
Cation Analysis No. 031-2 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 5/25/99 ; 11:00
Initial pH of Leachant 3.744 Final pH of Leachate 3.977
Cation Analysis No. 031-3 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 5/28/99 ; 10:10
Initial pH of Leachant 3.736 Final pH of Leachate 8.403
Cation Analysis No. 031-4 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 6/1/99 ; 10:00 9.35 DW/6/1/99
Initial pH of Leachant 3.715 Final pH of Leachate 8.564
Cation Analysis No. 031-5 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 6/4/99 ; 10:00
Initial pH of Leachant 3.685 Final pH of Leachate
Cation Analysis No. Dilution Factor

Test stopped due to vessel corrosion.

6/4/99

LONG-TERM TEST DATA SHEET

Test ID SRSLF3-1

Vessel ID No. I-032 Batch Cleaning No. 3-18-99

Glass Sample ID SRS
Sample Weight (g) 3.006
Sample Preparation Date ~~2.328~~ 5-3-99 5/3/99

Type of Solution .0025 M FeCl3
Leachant Volume (ml) 30 ml
Initial pH of Leachant 2.328

Weight of Empty Vessel (g) 268.28
Weight of Vessel + Sample (g) 271.28
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 300.55

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99 ; 15:45

Final pH of Leachate 7.806
Cation Analysis No. 032-1 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 5/21/99 ; 10:52
Initial pH of Leachant 2.328 Final pH of Leachate 7.118
Cation Analysis No. 032-2 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 5/25/99 ; 11:00
Initial pH of Leachant 2.336 Final pH of Leachate 3.510
Cation Analysis No. 032-3 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 5/28/99 ; 10:10
Initial pH of Leachant 2.328 Final pH of Leachate ~~2.388~~ 6.340 AB 6/1/99
Cation Analysis No. 032-4 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 6/1/99 ; 10:00 9.35 DW/6/1/99
Initial pH of Leachant 2.388 Final pH of Leachate N/A Leachate e possible
Cation Analysis No. 032-5 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 6/4/99 ; 10:00
Initial pH of Leachant 2.300 Final pH of Leachate
Cation Analysis No. Dilution Factor

Test stopped due to vessel corrosion

6/4/99

LONG-TERM TEST DATA SHEET

Test ID SRSLF3-2

Vessel ID No. I-033 Batch Cleaning No. 3-18-99

Glass Sample ID SRS
Sample Weight (g) 3.003
Sample Preparation Date ~~2.328~~ 5-3-99 5/3/99

Type of Solution .0025 M FeCl3
Leachant Volume (ml) 30 ml
Initial pH of Leachant 2.328

Weight of Empty Vessel (g) 264.84
Weight of Vessel + Sample (g) 267.84
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 297.09

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99; 15:45

Final pH of Leachate 7.621
Cation Analysis No. 033-1 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 5/21/99; 10:52
Initial pH of Leachant 2.328 Final pH of Leachate 6.934
Cation Analysis No. 033-2 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 5/25/99; 11:00
Initial pH of Leachant 2.336 Final pH of Leachate 3.238
Cation Analysis No. 033-3 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 5/28/99; 10:10
Initial pH of Leachant 2.328 Final pH of Leachate 5.525
Cation Analysis No. 033-4 Dilution Factor 1 AJ/6/1/99

4 Leachant Replacement Date and Time(d:hr:min) 6/1/99; 10:00 9:35
Initial pH of Leachant 2.388 Final pH of Leachate 6.694
Cation Analysis No. 033-5 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 6/4/99; 10:00
Initial pH of Leachant 2.300 Final pH of Leachate
Cation Analysis No. Dilution Factor

Test stopped due to vessel corrosion.

Pan
6/4/99

LONG-TERM TEST DATA SHEET

Test ID SRSLF3-3

Vessel ID No. I-034 Batch Cleaning No. 4-19-99

Glass Sample ID SRS
Sample Weight (g) 3.004
Sample Preparation Date ~~2.328~~ 5-3-99 5/3/99

Type of Solution .0025 M FeCl3
Leachant Volume (ml) 30 ml
Initial pH of Leachant 2.328

Weight of Empty Vessel (g) 266.92
Weight of Vessel + Sample (g) 269.92
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 299.13

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99; 15:45

Final pH of Leachate 7.442
Cation Analysis No. 034-1 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 5/21/99; 10:52
Initial pH of Leachant 2.328 Final pH of Leachate 6.904
Cation Analysis No. 034-2 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 5/25/99; 11:00
Initial pH of Leachant 2.336 Final pH of Leachate 3.171
Cation Analysis No. 034-3 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 5/28/99; 10:10
Initial pH of Leachant 2.328 Final pH of Leachate 4.780
Cation Analysis No. 034-4 Dilution Factor 1 AJ/6/1/99

4 Leachant Replacement Date and Time(d:hr:min) 6/1/99; 10:00 9:35
Initial pH of Leachant 2.388 Final pH of Leachate 5.683
Cation Analysis No. 034-5 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 6/4/99; 10:00
Initial pH of Leachant 2.300 Final pH of Leachate
Cation Analysis No. Dilution Factor

Test stopped due to vessel corrosion.

Pan
6/4/99

LONG-TERM TEST DATA SHEET

Test ID WVNSLF3-1

Vessel ID No. I-035 Batch Cleaning No. 4-19-99

Glass Sample ID WVNS
Sample Weight (g) 3.002
Sample Preparation Date ~~2.328~~ 5-3-99 5/3/99

Type of Solution .0025 M FeCl3
Leachant Volume (ml) 30 ml
Initial pH of Leachant 2.328

Weight of Empty Vessel (g) 265.87
Weight of Vessel + Sample (g) 268.87
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 298.14

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99 ; 15:45

Final pH of Leachate 8.745
Cation Analysis No. 035-1 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 5/21/99 ; 10:52
Initial pH of Leachant 2.328 Final pH of Leachate 8.703
Cation Analysis No. 035-2 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 5/25/99 ; 11:00
Initial pH of Leachant 2.336 Final pH of Leachate 3.211
Cation Analysis No. 035-3 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 5/28/99 ; 10:10
Initial pH of Leachant 2.328 Final pH of Leachate 6.886
Cation Analysis No. 035-4 Dilution Factor AW/6/11/99

4 Leachant Replacement Date and Time(d:hr:min) 6/1/99 ; ~~10:10~~ 9:35
Initial pH of Leachant 2.388 Final pH of Leachate 7.669
Cation Analysis No. 035-5 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 6/4/99 ; 10:00
Initial pH of Leachant 2.300 Final pH of Leachate
Cation Analysis No. Dilution Factor

Test stopped due to vessel corrosion.

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6/4/99

LONG-TERM TEST DATA SHEET

Test ID WVNSLF3-2

Vessel ID No. I-036 Batch Cleaning No. 4-19-99

Glass Sample ID WVNS
Sample Weight (g) 3.002
Sample Preparation Date ~~2.328~~ 5-3-99 5/3/99

Type of Solution .0025 M FeCl3
Leachant Volume (ml) 30 ml
Initial pH of Leachant 2.328

Weight of Empty Vessel (g) 265.94
Weight of Vessel + Sample (g) 268.95
2nd Weight of Sample (Difference of the last two items) (g) 3.01
Total Weight of Vessel + Sample + Solution (g) 298.26

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99 ; 15:45

Final pH of Leachate 8.644
Cation Analysis No. 036-1 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 5/21/99 ; 10:52
Initial pH of Leachant 2.328 Final pH of Leachate 8.715
Cation Analysis No. 036-2 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 5/25/99 ; 11:00
Initial pH of Leachant 2.336 Final pH of Leachate 3.152
Cation Analysis No. 036-3 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 5/28/99 ; 10:10
Initial pH of Leachant 2.328 Final pH of Leachate 4.889
Cation Analysis No. 036-4 Dilution Factor AW/6/11/99

4 Leachant Replacement Date and Time(d:hr:min) 6/1/99 ; ~~10:00~~ 9:35
Initial pH of Leachant 2.388 Final pH of Leachate 7.650
Cation Analysis No. 036-5 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 6/4/99 ; 10:00
Initial pH of Leachant 2.300 Final pH of Leachate
Cation Analysis No. Dilution Factor

Test stopped due to vessel corrosion.

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6/4/99

LONG-TERM TEST DATA SHEET

Test ID WVNSLF3-3

Vessel ID No. I-037 Batch Cleaning No. 4-19-99

Glass Sample ID WVNS
Sample Weight (g) 3.003
Sample Preparation Date ~~2.328~~ 5-3-99 5/5/99

Type of Solution .0025 M FeCl3
Leachant Volume (ml) 30 ml
Initial pH of Leachant 2.328

Weight of Empty Vessel (g) 266.09
Weight of Vessel + Sample (g) 269.10
2nd Weight of Sample (Difference of the last two items) (g) 3.01
Total Weight of Vessel + Sample + Solution (g) 298.13

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99 ; 15:45

Final pH of Leachate 8.725
Cation Analysis No. 037-1 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 5/21/99 ; 10:52
Initial pH of Leachant 2.328 Final pH of Leachate 8.737
Cation Analysis No. 037-2 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 5/25/99 ; 11:00
Initial pH of Leachant 2.336 Final pH of Leachate 3.252
Cation Analysis No. 037-3 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 5/28/99 ; 10:10
Initial pH of Leachant 2.328 Final pH of Leachate 7.271
Cation Analysis No. 037-4 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 6/1/99 ; ~~10:00~~ 6/1/99 9:35
Initial pH of Leachant 2.388 Final pH of Leachate 7.766
Cation Analysis No. 037-5 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 6/4/99 ; 10:00
Initial pH of Leachant 2.300 Final pH of Leachate
Cation Analysis No. Dilution Factor

Test stopped due to vessel corrosion.

6/4/99

LONG-TERM PCT DATA SHEET

Test ID SRSW6M1

Vessel ID No. I-038 Batch Cleaning No. 4-19-99

Glass Sample ID ~~I-038~~ SRS 5/3/99
Sample Weight (g) 2.999
Sample Preparation Date 5-3-99

Type of Solution DI Water
Leachant Volume (ml) 30 ml
Initial pH of Leachant 5.910

Weight of Empty Vessel (g) 266.89
Weight of Vessel + Sample (g) 269.89
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 298.96
Final Total Weight After Test (g)

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99 ; 15:45
Date and Time Test Ended (d:hr:min) 6/4/99 ; 10:00

LONG-TERM PCT DATA SHEET

Test ID SRSW6M2

Vessel ID No. I-039 Batch Cleaning No. 4-19-99

Glass Sample ID SRS
Sample Weight (g) 3.002
Sample Preparation Date 5-3-99

Type of Solution DI Water
Leachant Volume (ml) 30 ml
Initial pH of Leachant 5.910

Weight of Empty Vessel (g) 267.72
Weight of Vessel + Sample (g) 270.72
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 299.69
Final Total Weight After Test (g)

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99 ; 15:45
Date and Time Test Ended (d:hr:min) 6/4/99 10:00

Both Tests stopped due to vessel corrosion.

6/4/99

LONG-TERM PCT DATA SHEET

Test ID SRSW6M3

Vessel ID No. I-040 Batch Cleaning No. 4-19-99

Glass Sample ID SRS
Sample Weight (g) 2.999
Sample Preparation Date 5-3-99

Type of Solution DI Water
Leachant Volume (ml) 30 ml
Initial pH of Leachant 5.910

Weight of Empty Vessel (g) 265.32
Weight of Vessel + Sample (g) 268.32
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 297.43
Final Total Weight After Test (g) _____

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99 ; 15:45
Date and Time Test Ended (d:hr:min) 6/4/99 10:00

LONG-TERM PCT DATA SHEET

Test ID WVNSW6M1

Vessel ID No. I-125 Batch Cleaning No. 5-7-99

Glass Sample ID WVNS
Sample Weight (g) 3.000
Sample Preparation Date 5-3-99

Type of Solution DI Water
Leachant Volume (ml) 30 ml
Initial pH of Leachant 5.910

Weight of Empty Vessel (g) 273.17
Weight of Vessel + Sample (g) 276.17
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 305.15
Final Total Weight After Test (g) _____

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99 ; 15:45
Date and Time Test Ended (d:hr:min) 6/4/99 10:00

Both tests stopped due to vessel corrosion.

6/4/99

LONG-TERM PCT DATA SHEET

Test ID WVNSW6M2

Vessel ID No. I-126 Batch Cleaning No. 4-16-99

Glass Sample ID WVNS
Sample Weight (g) 3.000
Sample Preparation Date 5-3-99

Type of Solution DI Water
Leachant Volume (ml) 30 ml
Initial pH of Leachant 5.910

Weight of Empty Vessel (g) 269.56
Weight of Vessel + Sample (g) 272.56
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 301.52
Final Total Weight After Test (g) _____

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99 ; 15:45
Date and Time Test Ended (d:hr:min) 6/4/99 10:00

LONG-TERM PCT DATA SHEET

Test ID WVNSW6M3

Vessel ID No. I-127 Batch Cleaning No. 5-7-99

Glass Sample ID WVNS
Sample Weight (g) 3.003
Sample Preparation Date 5-3-99

Type of Solution DI Water
Leachant Volume (ml) 30 ml
Initial pH of Leachant 5.910

Weight of Empty Vessel (g) 268.63
Weight of Vessel + Sample (g) 271.63
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 300.70
Final Total Weight After Test (g) _____

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99 ; 15:45
Date and Time Test Ended (d:hr:min) 6/4/99 10:00

Both tests stopped due to vessel corrosion

6/4/99

LONG-TERM PCT DATA SHEET

Test ID SRSHF26M1

Vessel ID No. I-128 Batch Cleaning No. 5-7-99

Glass Sample ID SRS
Sample Weight (g) 3.002
Sample Preparation Date ~~2.636~~ 5-3-99 5/3/99

Type of Solution .25 M FeCl2
Leachant Volume (ml) 30 ml
Initial pH of Leachant 2.636

Weight of Empty Vessel (g) 266.94
Weight of Vessel + Sample (g) 269.94
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 299.53
Final Total Weight After Test (g) _____

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99 ; 15:45
Date and Time Test Ended (d:hr:min) 6/4/99 10:00

LONG-TERM PCT DATA SHEET

Test ID SRSHF26M2

Vessel ID No. I-~~0~~129 5/3/99 Batch Cleaning No. 4-16-99

Glass Sample ID SRS
Sample Weight (g) 2.999
Sample Preparation Date ~~2.636~~ 5-3-99 5/3/99

Type of Solution .25 M FeCl2
Leachant Volume (ml) 30 ml
Initial pH of Leachant 2.636

Weight of Empty Vessel (g) 267.40
Weight of Vessel + Sample (g) 270.40
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 300.18
Final Total Weight After Test (g) _____

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99 ; 15:45
Date and Time Test Ended (d:hr:min) 6/4/99 10:00

Both tests stopped due to vessel corrosion. 6/4/99

LONG-TERM PCT DATA SHEET

Test ID SRSHF26M3

Vessel ID No. I-130 Batch Cleaning No. 4-16-99

Glass Sample ID SRS
Sample Weight (g) 2.999
Sample Preparation Date ~~2.636~~ 5-3-99 5/3/99

Type of Solution .25 M FeCl2
Leachant Volume (ml) 30 ml
Initial pH of Leachant 2.636

Weight of Empty Vessel (g) 268.27
Weight of Vessel + Sample (g) 271.27
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 301.09
Final Total Weight After Test (g) _____

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99 ; 15:45
Date and Time Test Ended (d:hr:min) 6/4/99 10:00

LONG-TERM PCT DATA SHEET

Test ID WVNSHF26M1

Vessel ID No. I-131 Batch Cleaning No. 4-16-99

Glass Sample ID WVNS
Sample Weight (g) 3.003
Sample Preparation Date ~~2.636~~ 5-3-99 5/3/99

Type of Solution .25 M FeCl2
Leachant Volume (ml) 30 ml
Initial pH of Leachant 2.636

Weight of Empty Vessel (g) 268.30
Weight of Vessel + Sample (g) 271.30
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 301.25
Final Total Weight After Test (g) _____

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99 ; 15:45
Date and Time Test Ended (d:hr:min) 6/4/99 10:00

Both tests stopped due to vessel corrosion. 6/4/99

LONG-TERM PCT DATA SHEET

Test ID WVNSHF26M2

Vessel ID No. I-132 Batch Cleaning No. 4-16-99

Glass Sample ID WVNS
Sample Weight (g) 3.002
Sample Preparation Date 5-3-99

Type of Solution .25 M FeCl2
Leachant Volume (ml) 30 ml
Initial pH of Leachant 2.636

Weight of Empty Vessel (g) 267.81
Weight of Vessel + Sample (g) 270.80
2nd Weight of Sample (Difference of the last two items) (g) 2.99
Total Weight of Vessel + Sample + Solution (g) 300.66
Final Total Weight After Test (g) _____

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99 ; 15:45
Date and Time Test Ended (d:hr:min) 6/4/99 10:00

LONG-TERM PCT DATA SHEET

Test ID WVNSHF26M3

Vessel ID No. I-133 Batch Cleaning No. 4-16-99

Glass Sample ID WVNS
Sample Weight (g) 3.004
Sample Preparation Date 5-3-99

Type of Solution .25 M FeCl2
Leachant Volume (ml) 30 ml
Initial pH of Leachant 2.636

Weight of Empty Vessel (g) 271.28
Weight of Vessel + Sample (g) 274.28
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 304.21
Final Total Weight After Test (g) _____

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99 ; 15:45
Date and Time Test Ended (d:hr:min) 6/4/99 10:00

Both tests stopped due to vessel corrosion.

6/4/99

LONG-TERM PCT DATA SHEET

Test ID SRSHF36M1

Vessel ID No. I-134 Batch Cleaning No. 4-16-99

Glass Sample ID SRS
Sample Weight (g) 2.998
Sample Preparation Date ~~1.532~~ 5-3-99 5/3/99

Type of Solution .25 M FeCl3
Leachant Volume (ml) 30 ml
Initial pH of Leachant 1.532

Weight of Empty Vessel (g) 267.35
Weight of Vessel + Sample (g) 270.35
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 300.47
Final Total Weight After Test (g) _____

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99 ; 15:45
Date and Time Test Ended (d:hr:min) 6/4/99 10:00

LONG-TERM PCT DATA SHEET

Test ID SRSHF36M2

Vessel ID No. I-135 Batch Cleaning No. 4-16-99

Glass Sample ID SRS
Sample Weight (g) 3.001
Sample Preparation Date ~~1.532~~ 5-3-99 5/3/99

Type of Solution .25 M FeCl3
Leachant Volume (ml) 30 ml
Initial pH of Leachant 1.532

Weight of Empty Vessel (g) 269.80
Weight of Vessel + Sample (g) 272.80
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 302.60
Final Total Weight After Test (g) _____

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99 ; 15:45
Date and Time Test Ended (d:hr:min) 6/4/99 10:00

Both tests stopped due to vessel corrosion.

6/4/99

LONG-TERM PCT DATA SHEET

Test ID SRSHF36M3

Vessel ID No. I-136 Batch Cleaning No. 5-7-99

Glass Sample ID SRS
Sample Weight (g) 3.001
Sample Preparation Date ~~1.532~~ 5-3-99 5/3/99

Type of Solution .25M FeCl3
Leachant Volume (ml) 30ml
Initial pH of Leachant 1.532

Weight of Empty Vessel (g) 268.03
Weight of Vessel + Sample (g) 271.02
2nd Weight of Sample (Difference of the last two items) (g) 2.99
Total Weight of Vessel + Sample + Solution (g) 300.39
Final Total Weight After Test (g) _____

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99 ; 15:45
Date and Time Test Ended (d:hr:min) 6/4/99 10:00

LONG-TERM PCT DATA SHEET

Test ID WVNSHF36M1

Vessel ID No. I-137 Batch Cleaning No. 4-16-99

Glass Sample ID WVNS
Sample Weight (g) 3.005
Sample Preparation Date ~~1.532~~ 5-3-99 5/3/99

Type of Solution .25M FeCl3
Leachant Volume (ml) 30ml
Initial pH of Leachant 1.532

Weight of Empty Vessel (g) 267.93
Weight of Vessel + Sample (g) 270.93
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 299.95
Final Total Weight After Test (g) _____

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99 ; 15:45
Date and Time Test Ended (d:hr:min) 6/4/99 10:00

Both tests stopped due to vessel corrosion.

6/4/99

LONG-TERM PCT DATA SHEET

Test ID WVNSHF36M2

Vessel ID No. I-138 Batch Cleaning No. 4-16-99

Glass Sample ID WVNS
Sample Weight (g) 3.004
Sample Preparation Date ~~1.532~~ 5-3-99 5/3/99

Type of Solution .25M FeCl3
Leachant Volume (ml) 30ml
Initial pH of Leachant 1.532

Weight of Empty Vessel (g) 272.11
Weight of Vessel + Sample (g) 275.11
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 304.32
Final Total Weight After Test (g) _____

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99 ; 15:45
Date and Time Test Ended (d:hr:min) 6/4/99 10:00

LONG-TERM PCT DATA SHEET

Test ID WVNSHF36M3

Vessel ID No. I-139 Batch Cleaning No. 5-7-99

Glass Sample ID WVNS
Sample Weight (g) 3.002
Sample Preparation Date ~~1.532~~ 5-3-99 5/3/99

Type of Solution .25M FeCl3
Leachant Volume (ml) 30ml
Initial pH of Leachant 1.532

Weight of Empty Vessel (g) 269.30
Weight of Vessel + Sample (g) 272.30
2nd Weight of Sample (Difference of the last two items) (g) 3.00
Total Weight of Vessel + Sample + Solution (g) 302.49
Final Total Weight After Test (g) _____

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 5/18/99 ; 15:45
Date and Time Test Ended (d:hr:min) 6/4/99 10:00

Both tests stopped due to vessel corrosion.

6/4/99

Test Matrix for Glass Dissolution Study (PFA Vessels)

Test Matrix for Glass Dissolution Study (PFA Vessels)

Test #	Solution	Glass	# Samples	Total Tests	Test ID
001, 002	Deionized water	None	2	2	BLANKL1,2
003, 004, 005	Deionized water	EA	3	5	EAW1,2,3
006, 007, 008	Deionized water	SRS	3	8	SRSW1,2,3
009, 010, 011	Deionized water	WVNS	3	11	WVNSW1,2,3
012, 013, 014	0.25 M $FeCl_2$	SRS	3	14	SRSHF2-1,2,3
015, 016, 017	0.25 M $FeCl_2$	WVNS	3	17	WVNSHF2-1,2,3
018, 019, 020	0.25 M $FeCl_3$	SRS	3	20	SRSHF3-1,2,3
021, 022, 023	0.25 M $FeCl_3$	WVNS	3	23	WVNSHF3-1,2,3
024, 025, 026	0.0025 M $FeCl_2$	SRS	3	26	SRSLF2-1,2,3
027, 028, 029	0.0025 M $FeCl_2$	WVNS	3	29	WVNSLF2-1,2,3
030, 031, 032	0.0025 M $FeCl_3$	SRS	3	32	SRSLF3-1,2,3
033, 034, 035	0.0025 M $FeCl_3$	WVNS	3	35	WVNSLF3-1,2,3
036, 037	0.25 M HCl	WVNS	2	37	WVNSHCL-1,2

7/20/99

Cleaning of New PFA · TFE - Fluorocarbon Vessels

pH and Fluoride Testing of Vessels after first cleaning:
Any vessel with fluoride concentrations exceeding 500 ppm must be recleaned

Vessel ID	pH	[F⁻] (ppm)
001	5.138	129
002	5.676	-44
003	5.710	-45
004	5.605	-96
005	5.607	-78
006	5.600	-86
007	5.704	-101
008	5.724	-102
009	5.515	-98
010	5.781	-88
011	5.744	-60
012	5.715	-61
013	5.718	-87
014	5.680	-100
015	5.643	-70
016	5.717	-168
017	5.730	23
018	5.640	-29
019	5.822	-8
020	5.753	-75
021	5.719	270
022	5.769	-73
023	5.687	-81
024	5.799	1
025	5.763	75

Vessel ID	pH	[F⁻] (ppm)
026	5.662	32
027	5.765	99
028	5.794	-87
029	5.806	-77
030	5.837	-79
031	5.723	-108
032	5.725	-112
033	5.704	-90
034	5.828	-81
035	5.809	-94
036	5.622	-92
037	5.691	-93
038	5.672	-121

7-21-99

Long-Term Test Data Sheets Using PFA Vessels

LONG-TERM TEST DATA SHEET

Test ID BLANK-T1

Vessel ID No. 001 Batch Cleaning No. 7-21-99

Glass Sample ID N/A
Sample Weight (g) N/A
Sample Preparation Date N/A

Type of Solution DI H_2O
Leachant Volume (ml) 30 mL
Initial pH of Leachant 5.784

Weight of Empty Vessel (g) 127.83805
Weight of Vessel + Sample (g) 127.83805
2nd Weight of Sample (Difference of the last two items) (g) 0.00
Total Weight of Vessel + Sample + Solution (g) 157.48475

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 7/27/99; 10:20

Final pH of Leachate 5.569
Cation Analysis No. T1-001 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 7/30/99; 9:50
Initial pH of Leachant 5.768 Final pH of Leachate 5.435
Cation Analysis No. T2-001 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 8/3/99; 9:15
Initial pH of Leachant 5.904 Final pH of Leachate 5.277
Cation Analysis No. T3-001 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 8/6/99; 10:05
Initial pH of Leachant 5.913 Final pH of Leachate 5.263
Cation Analysis No. T4-001 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 8/10/99; 10:25
Initial pH of Leachant 5.906 Final pH of Leachate 5.573
Cation Analysis No. T5-001 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 8/13/99; 10:15
Initial pH of Leachant 6.258 Final pH of Leachate ~~5.914~~ 5.523 8/17/99
Cation Analysis No. T6-001 Dilution Factor

6 Leachant Replacement Date and Time(d:hr:min) 8/17/99; 10:12
Initial pH of Leachant 5.914 Final pH of Leachate 5.843
Cation Analysis No. T7-001 Dilution Factor

7 Leachant Replacement Date and Time(d:hr:min) 8/20/99; 8:50
Initial pH of Leachant 5.919 Final pH of Leachate 5.479
Cation Analysis No. T8-001 Dilution Factor

New DI Batch 8-27-99

8 Leachant Replacement Date and Time(d:hr:min) 8/24/99; 9:00
Initial pH of Leachant 5.551 Final pH of Leachate 5.481
Cation Analysis No. T9-001 Dilution Factor

8/26/99

001

9 Leachant Replacement Date and Time(d:hr:min) 8/27/99; 8:45
Initial pH of Leachant 5.658 Final pH of Leachate 5.710
Cation Analysis No. T10-001 Dilution Factor

10 Leachant Replacement Date and Time(d:hr:min) 8/31/99; 9:30
Initial pH of Leachant 5.402 Final pH of Leachate 5.769
Cation Analysis No. T11-001 Dilution Factor

11 Leachant Replacement Date and Time(d:hr:min) 9/3/99; 9:30
Initial pH of Leachant 6.123 Final pH of Leachate 5.782
Cation Analysis No. T12-001 Dilution Factor

12 Leachant Replacement Date and Time(d:hr:min) 9/7/99; 9:00
Initial pH of Leachant 5.777 Final pH of Leachate 5.780
Cation Analysis No. T13-001 Dilution Factor

13 Leachant Replacement Date and Time(d:hr:min) 9/10/99; 10:00
Initial pH of Leachant 6.275 Final pH of Leachate 5.683
Cation Analysis No. T14-001 Dilution Factor

14 Leachant Replacement Date and Time(d:hr:min) 9/14/99; 9:15
Initial pH of Leachant 5.764 Final pH of Leachate 5.777
Cation Analysis No. T15-001 Dilution Factor

15 Leachant Replacement Date and Time(d:hr:min) 9/17/99; 9:00
Initial pH of Leachant 5.912 Final pH of Leachate 5.651
Cation Analysis No. T16-001 Dilution Factor

16 Leachant Replacement Date and Time(d:hr:min) 9/21/99; 10:00
Initial pH of Leachant 5.703 Final pH of Leachate 5.588 meas. made 9/27
Cation Analysis No. T17-001 Dilution Factor

17 Leachant Replacement Date and Time(d:hr:min) 9/24/99; 10:30
Initial pH of Leachant 5.400 Final pH of Leachate 5.660
Cation Analysis No. T18-001 Dilution Factor

18 Leachant Replacement Date and Time(d:hr:min) 9/28/99; 9:30
Initial pH of Leachant 5.310 Final pH of Leachate 5.645
Cation Analysis No. T19-001 Dilution Factor

New DI

19 Leachant Replacement Date and Time(d:hr:min) 9/1/99; 9:30
Initial pH of Leachant 5.878 Final pH of Leachate 5.634
Cation Analysis No. T20-001 Dilution Factor

20 Leachant Replacement Date and Time(d:hr:min) 10/5/99; 9:30
Initial pH of Leachant 5.501 Final pH of Leachate ~~5.583~~ 5.388 ph mod 10/20/99
Cation Analysis No. T21-001 Dilution Factor

21 Leachant Replacement Date and Time(d:hr:min) 10/8/99; 9:30
Initial pH of Leachant 5.400 Final pH of Leachate ~~5.400~~ 5.642 pH made 10/22/99
Cation Analysis No. T22-001 Dilution Factor

22 Leachant Replacement Date and Time(d:hr:min) 10/12/99; 9:45
Initial pH of Leachant 5.623 Final pH of Leachate 5.394
Cation Analysis No. T23-001 Dilution Factor

10/14/99

001

23 Leachant Replacement Date and Time(d:hr:min) 10/15/99 9:45
Initial pH of Leachant 5.539 Final pH of Leachate 5.174
Cation Analysis No. T24-001 Dilution Factor

After Cation Until 24, Vials held until 10/26/99 cycle to be @ 1wk intervals

24 Leachant Replacement Date and Time(d:hr:min) 10/26/99 10:00
Initial pH of Leachant 5.440 Final pH of Leachate 5.460
Cation Analysis No. T25-001 Dilution Factor

#24 Leachant removed 10/19/99

25 Leachant Replacement Date and Time(d:hr:min) 11/2/99 9:55
Initial pH of Leachant 5.335 Final pH of Leachate 5.414
Cation Analysis No. T26-001 Dilution Factor

26 Leachant Replacement Date and Time(d:hr:min) 11/9/99 9:30
Initial pH of Leachant 5.624 Final pH of Leachate 5.345
Cation Analysis No. T27-001 Dilution Factor

27 Leachant Replacement Date and Time(d:hr:min) 11/16/99 1:00pm
Initial pH of Leachant 5.325 Final pH of Leachate 5.550
Cation Analysis No. T28-001 Dilution Factor

28 Leachant Replacement Date and Time(d:hr:min) 11/23/99 10:30
Initial pH of Leachant 5.967 Final pH of Leachate 5.536
Cation Analysis No. T29-001 Dilution Factor

29 Leachant Replacement Date and Time(d:hr:min) 11/30/99 10:00
Initial pH of Leachant 5.400 Final pH of Leachate 5.695
Cation Analysis No. T30-001 Dilution Factor

New Solution Batch

30 Leachant Replacement Date and Time(d:hr:min) 12/7/99 11:15
Initial pH of Leachant 5.490 Final pH of Leachate 5.871
Cation Analysis No. T31-001 Dilution Factor

31 Leachant Replacement Date and Time(d:hr:min) 12/14/99 10:00
Initial pH of Leachant 5.846 Final pH of Leachate 5.040
Cation Analysis No. T32-001 Dilution Factor

32 Leachant Replacement Date and Time(d:hr:min) 12/21/99 10:00
Initial pH of Leachant 6.597 Final pH of Leachate 5.674
Cation Analysis No. T33-001 Dilution Factor

33 Leachant Replacement Date and Time(d:hr:min) 12/28/99 11:15
Initial pH of Leachant 5.882 Final pH of Leachate ~~5.882~~ 4.922
Cation Analysis No. T34-001 Dilution Factor

1/14/00

34 Leachant Replacement Date and Time(d:hr:min) 1/4/00 10:30
Initial pH of Leachant 5.802 Final pH of Leachate ~~4.922~~ 4.613
Cation Analysis No. T35-001 Dilution Factor

1/11/00

35 Leachant Replacement Date and Time(d:hr:min) 1/11/00 10:30
Initial pH of Leachant 5.705 Final pH of Leachate 5.142
Cation Analysis No. T36-001 Dilution Factor

36 Leachant Replacement Date and Time(d:hr:min) 1/18/00 10:50
Initial pH of Leachant 5.795 Final pH of Leachate 4.606
Cation Analysis No. T37-001 Dilution Factor

1/20/00

001

37 Leachant Replacement Date and Time(d:hr:min) 1/25/00 10:45
Initial pH of Leachant 5.752 Final pH of Leachate 4.993
Cation Analysis No. T38-001 Dilution Factor

38 Leachant Replacement Date and Time(d:hr:min) 2/2/00 3:00pm
Initial pH of Leachant 5.856 Final pH of Leachate 4.582
Cation Analysis No. T39-001 Dilution Factor

Start of 20K cycle Next 2/15/00

39 Leachant Replacement Date and Time(d:hr:min) 2/15/00 @ 10:30
Initial pH of Leachant 5.488 Final pH of Leachate 4.854
Cation Analysis No. T40-001 Dilution Factor

40 Leachant Replacement Date and Time(d:hr:min) 2/29/00 @ 2:30pm
Initial pH of Leachant 5.310 Final pH of Leachate 5.031
Cation Analysis No. T41-001 Dilution Factor

41 Leachant Replacement Date and Time(d:hr:min) 3/14/00 @ 11:00 am
Initial pH of Leachant 5.730 Final pH of Leachate 5.846
Cation Analysis No. T42-001 Dilution Factor

42 Leachant Replacement Date and Time(d:hr:min) 3/28/00 10:00 Am
Initial pH of Leachant 4.652 Final pH of Leachate 5.938
Cation Analysis No. T43-001 Dilution Factor

43 Leachant Replacement Date and Time(d:hr:min) 4-11-00 2:00pm
Initial pH of Leachant T44-001 Final pH of Leachate 5.776
Cation Analysis No. 6.097 Dilution Factor

44 Leachant Replacement Date and Time(d:hr:min) 4-25-00 2:00pm
Initial pH of Leachant 5.870 Final pH of Leachate 5.815
Cation Analysis No. T45-001 Dilution Factor

45 Leachant Replacement Date and Time(d:hr:min) 5-9-00 10:30
Initial pH of Leachant 6.077 Final pH of Leachate 5.579
Cation Analysis No. T46-001 Dilution Factor

46 Leachant Replacement Date and Time(d:hr:min) 5/23/00 2:00pm
Initial pH of Leachant 5.887 Final pH of Leachate 5.813
Cation Analysis No. T47-001 Dilution Factor

47 Leachant Replacement Date and Time(d:hr:min) 6/6/00 10:30
Initial pH of Leachant 5.895 Final pH of Leachate 5.507
Cation Analysis No. T48-001 Dilution Factor

6/6/00

48 Leachant Replacement Date and Time(d:hr:min) 6/20/00 1:00pm
Initial pH of Leachant 5.910 Final pH of Leachate 5.385
Cation Analysis No. T49-001 Dilution Factor

49 Leachant Replacement Date and Time(d:hr:min) 7/5/00 8:30
Initial pH of Leachant 6.011 Final pH of Leachate 5.427
Cation Analysis No. T50-001 Dilution Factor

50 Leachant Replacement Date and Time(d:hr:min) 7/18/00 10:30
Initial pH of Leachant 6.052 Final pH of Leachate 5.953
Cation Analysis No. T51-001 Dilution Factor

8/11/00

LONG-TERM TEST DATA SHEET

Test ID BLANK-T2

Vessel ID No. 002 Batch Cleaning No. 7-21-99

Glass Sample ID N/A
Sample Weight (g) N/A
Sample Preparation Date N/A

Type of Solution DI H_2O
Leachant Volume (ml) 30
Initial pH of Leachant 5.784

Weight of Empty Vessel (g) 127.11590
Weight of Vessel + Sample (g) 127.11590
2nd Weight of Sample (Difference of the last two items) (g) 0.00
Total Weight of Vessel + Sample + Solution (g) 156.61840

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 7/27/99; 10:20

Final pH of Leachate 5.527
Cation Analysis No. T1-002 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 7/30/99; 9:50
Initial pH of Leachant 5.768 Final pH of Leachate 5.607
Cation Analysis No. T2-002 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 8/3/99; 9:15
Initial pH of Leachant 5.904 Final pH of Leachate 5.785
Cation Analysis No. T3-002 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 8/6/99; 10:05
Initial pH of Leachant 5.913 Final pH of Leachate 5.296
Cation Analysis No. T4-002 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 8/10/99; 10:25
Initial pH of Leachant 5.906 Final pH of Leachate 5.389
Cation Analysis No. T5-002 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 8/13/99; 10:15
Initial pH of Leachant 6.258 Final pH of Leachate 5.378
Cation Analysis No. T6-002 Dilution Factor

6 Leachant Replacement Date and Time(d:hr:min) 8/17/99; 10:12
Initial pH of Leachant 5.914 Final pH of Leachate 5.801
Cation Analysis No. T7-002 Dilution Factor

7 Leachant Replacement Date and Time(d:hr:min) 8/20/99; 8:50
Initial pH of Leachant 5.919 Final pH of Leachate 5.743
Cation Analysis No. T8-002 Dilution Factor

8 Leachant Replacement Date and Time(d:hr:min) 8/24/99; 9:00
Initial pH of Leachant 5.581 Final pH of Leachate 5.402
Cation Analysis No. T9-002 Dilution Factor

8/26/99

002

9 Leachant Replacement Date and Time(d:hr:min) 8/27/99; 8:45
Initial pH of Leachant 5.658 Final pH of Leachate 6.070
Cation Analysis No. T10-002 Dilution Factor

10 Leachant Replacement Date and Time(d:hr:min) 8/31/99; 9:30 9/3/99
Initial pH of Leachant ~~T11-002~~ 5.402 Final pH of Leachate ~~6.~~ 5.623
Cation Analysis No. T11-002 Dilution Factor

11 Leachant Replacement Date and Time(d:hr:min) 9/3/99; 9:30
Initial pH of Leachant ~~5.777~~ 6.123 Final pH of Leachate 5.707
Cation Analysis No. T12-002 Dilution Factor

12 Leachant Replacement Date and Time(d:hr:min) 9/7/99; 9:00
Initial pH of Leachant 5.777 Final pH of Leachate 5.945
Cation Analysis No. T13-002 Dilution Factor

13 Leachant Replacement Date and Time(d:hr:min) 9/10/99; 10:00
Initial pH of Leachant 6.275 Final pH of Leachate 5.667
Cation Analysis No. T14-002 Dilution Factor

14 Leachant Replacement Date and Time(d:hr:min) 9/14/99; 9:15
Initial pH of Leachant 5.764 Final pH of Leachate 5.593
Cation Analysis No. T15-002 Dilution Factor

15 Leachant Replacement Date and Time(d:hr:min) 9/17/99; 9:00
Initial pH of Leachant 5.912 Final pH of Leachate 5.711
Cation Analysis No. T16-002 Dilution Factor

16 Leachant Replacement Date and Time(d:hr:min) 9/21/99; 10:00
Initial pH of Leachant 5.703 Final pH of Leachate 5.525
Cation Analysis No. T17-002 Dilution Factor

17 Leachant Replacement Date and Time(d:hr:min) 9/24/99; 10:30
Initial pH of Leachant 5.400 Final pH of Leachate 5.615
Cation Analysis No. T18-002 Dilution Factor

18 Leachant Replacement Date and Time(d:hr:min) 9/28/99; 9:30
Initial pH of Leachant 5.310 Final pH of Leachate 5.760
Cation Analysis No. T18-002 Dilution Factor

19 Leachant Replacement Date and Time(d:hr:min) 10/1/99; 9:30
Initial pH of Leachant 5.878 Final pH of Leachate 5.763
Cation Analysis No. ~~T19~~ 002 Dilution Factor
re T20

20 Leachant Replacement Date and Time(d:hr:min) 10/5/99; 9:30
Initial pH of Leachant 5.501 Final pH of Leachate 5.590
Cation Analysis No. T21-002 Dilution Factor

21 Leachant Replacement Date and Time(d:hr:min) 10/8/99; 9:30
Initial pH of Leachant 5.400 Final pH of Leachate 5.533
Cation Analysis No. T22-002 Dilution Factor

22 Leachant Replacement Date and Time(d:hr:min) 10/12/99; 9:45
Initial pH of Leachant 5.623 Final pH of Leachate 5.524
Cation Analysis No. T23-002 Dilution Factor

10/14/99

002

23 Leachant Replacement Date and Time(d:hr:min) 10/15/99 9:45
Initial pH of Leachant 5.539 Final pH of Leachate 5.600
Cation Analysis No. T24-002 Dilution Factor

24 Leachant Replacement Date and Time(d:hr:min) 10/26/99 10:00
Initial pH of Leachant 5.440 Final pH of Leachate 5.489
Cation Analysis No. T25-002 Dilution Factor

25 Leachant Replacement Date and Time(d:hr:min) 11/2/99 9:55
Initial pH of Leachant 5.335 Final pH of Leachate 5.619
Cation Analysis No. T26-002 Dilution Factor

26 Leachant Replacement Date and Time(d:hr:min) 11/9/99 9:30
Initial pH of Leachant 5.624 Final pH of Leachate 5.548
Cation Analysis No. T27-002 Dilution Factor

27 Leachant Replacement Date and Time(d:hr:min) 11/16/99 1:00
Initial pH of Leachant 5.325 Final pH of Leachate 5.571
Cation Analysis No. T28-002 Dilution Factor

28 Leachant Replacement Date and Time(d:hr:min) 11/23/99 10:30
Initial pH of Leachant 5.967 Final pH of Leachate 5.623
Cation Analysis No. T29-002 Dilution Factor

29 Leachant Replacement Date and Time(d:hr:min) 1/30/99 10:00
Initial pH of Leachant 5.400 Final pH of Leachate 5.776
Cation Analysis No. T30-002 Dilution Factor

30 Leachant Replacement Date and Time(d:hr:min) 12/7/99 11:15
Initial pH of Leachant 5.490 Final pH of Leachate 5.586
Cation Analysis No. T31-002 Dilution Factor

31 Leachant Replacement Date and Time(d:hr:min) 12/14/99 10:00
Initial pH of Leachant 5.846 Final pH of Leachate 5.370
Cation Analysis No. T32-002 Dilution Factor

32 Leachant Replacement Date and Time(d:hr:min) 12/21/99 10:00
Initial pH of Leachant 6.597 Final pH of Leachate 5.483
Cation Analysis No. T33-002 Dilution Factor

33 Leachant Replacement Date and Time(d:hr:min) 12/28/99 11:15
Initial pH of Leachant 5.882 Final pH of Leachate 5.578
Cation Analysis No. T34-002 Dilution Factor

34 Leachant Replacement Date and Time(d:hr:min) 1/4/00 10:30
Initial pH of Leachant 5.802 Final pH of Leachate 5.490
Cation Analysis No. T35-002 Dilution Factor

35 Leachant Replacement Date and Time(d:hr:min) 1/11/00 10:30
Initial pH of Leachant 5.705 Final pH of Leachate 5.617
Cation Analysis No. T36-002 Dilution Factor

36 Leachant Replacement Date and Time(d:hr:min) 1/18/00 10:50
Initial pH of Leachant 5.795 Final pH of Leachate 5.396
Cation Analysis No. T37-002 Dilution Factor

1/20/00

002

37 Leachant Replacement Date and Time(d:hr:min) 1/25/00 10:45
Initial pH of Leachant 5.752 Final pH of Leachate 5.503
Cation Analysis No. T38-002 Dilution Factor

38 Leachant Replacement Date and Time(d:hr:min) 2/2/00 3pm
Initial pH of Leachant 5.856 Final pH of Leachate 5.292
Cation Analysis No. T39-002 Dilution Factor

39 Leachant Replacement Date and Time(d:hr:min) 2/15/00 10:30
Initial pH of Leachant 5.488 Final pH of Leachate 5.350
Cation Analysis No. T40-002 Dilution Factor

40 Leachant Replacement Date and Time(d:hr:min) 2/29/00 2:30pm
Initial pH of Leachant 5.310 Final pH of Leachate 5.375
Cation Analysis No. T41-002 Dilution Factor

41 Leachant Replacement Date and Time(d:hr:min) 3/14/00 11:00am
Initial pH of Leachant 5.730 Final pH of Leachate 5.839
Cation Analysis No. T42-002 Dilution Factor

42 Leachant Replacement Date and Time(d:hr:min) 3/28/00 10:00am
Initial pH of Leachant 4.652 Final pH of Leachate 5.670
Cation Analysis No. T43-002 Dilution Factor

Filtered Specimen Spilled 4/11/00

43 Leachant Replacement Date and Time(d:hr:min) 4/11/00 2:00pm
Initial pH of Leachant 6.067 Final pH of Leachate 5.890
Cation Analysis No. T44-002 Dilution Factor

44 Leachant Replacement Date and Time(d:hr:min) 4/25/00 2:00pm
Initial pH of Leachant 5.870 Final pH of Leachate 5.903
Cation Analysis No. T45-002 Dilution Factor

45 Leachant Replacement Date and Time(d:hr:min) 5-9-00 10:30
Initial pH of Leachant 6.077 Final pH of Leachate
Cation Analysis No. T46-002 Dilution Factor

46 Leachant Replacement Date and Time(d:hr:min) 5/23/00 2:00pm
Initial pH of Leachant 5.887 Final pH of Leachate 5.799
Cation Analysis No. T47-002 Dilution Factor

47 Leachant Replacement Date and Time(d:hr:min) 6/6/00 10:30
Initial pH of Leachant 5.895 Final pH of Leachate 5.589
Cation Analysis No. T48-002 Dilution Factor

6/6/00

48 Leachant Replacement Date and Time(d:hr:min) 6/20/00 1:00
Initial pH of Leachant 5.910 Final pH of Leachate 5.348
Cation Analysis No. T49-002 Dilution Factor

49 Leachant Replacement Date and Time(d:hr:min) 7/5/00 8:30
Initial pH of Leachant 6.011 Final pH of Leachate 5.491
Cation Analysis No. T50-002 Dilution Factor

50 Leachant Replacement Date and Time(d:hr:min) 7/18/00 10:30
Initial pH of Leachant 6.052 Final pH of Leachate 5.908
Cation Analysis No. T51-002 Dilution Factor

8/11/00

LONG-TERM TEST DATA SHEET

Test ID EAW-T1

Vessel ID No. 003 Batch Cleaning No. 7-21-99

Glass Sample ID EA
Sample Weight (g) 2.99976
Sample Preparation Date 7-26-99

Type of Solution DI H_2O
Leachant Volume (ml) 30
Initial pH of Leachant 5.784

Weight of Empty Vessel (g) 126.96015
Weight of Vessel + Sample (g) 129.95115
2nd Weight of Sample (Difference of the last two items) (g) 2.9910
Total Weight of Vessel + Sample + Solution (g) 159.67465

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 7/27/99; 10:20

Final pH of Leachate 12.002
Cation Analysis No. T1-003 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 7/30/99; 9:50
Initial pH of Leachant 5.768 Final pH of Leachate 11.988
Cation Analysis No. T2-003 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 8/3/99; 9:15
Initial pH of Leachant 5.904 Final pH of Leachate 11.759
Cation Analysis No. T3-003 Dilution Factor

• Cloudy particles removed w/leachant, unknown composition

3 Leachant Replacement Date and Time(d:hr:min) 8/6/99; 10:05
Initial pH of Leachant 5.913 Final pH of Leachate 11.826
Cation Analysis No. T4-003 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 8/10/99; 10:25
Initial pH of Leachant 5.906 Final pH of Leachate 11.546
Cation Analysis No. T5-003 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 8/13/99; 10:15
Initial pH of Leachant 6.258 Final pH of Leachate 11.571
Cation Analysis No. T6-003 Dilution Factor

6 Leachant Replacement Date and Time(d:hr:min) 8/17/99; 10:12
Initial pH of Leachant 5.914 Final pH of Leachate 11.483
Cation Analysis No. T7-003 Dilution Factor

7 Leachant Replacement Date and Time(d:hr:min) 8/20/99; 8:50
Initial pH of Leachant 5.919 Final pH of Leachate 11.442
Cation Analysis No. T8-003 Dilution Factor

8 Leachant Replacement Date and Time(d:hr:min) 8/24/99; 9:00
Initial pH of Leachant 5.551 Final pH of Leachate 11.358
Cation Analysis No. T9-003 Dilution Factor

8/26/99

003

9 Leachant Replacement Date and Time(d:hr:min) 8/27/99; 8:45
Initial pH of Leachant 5.668 Final pH of Leachate 11.263
Cation Analysis No. T10-003 Dilution Factor

10 Leachant Replacement Date and Time(d:hr:min) 8/31/99; 9:30
Initial pH of Leachant ~~T11-003~~ 5.402 Final pH of Leachate 11.205
Cation Analysis No. T11-003 Dilution Factor

11 Leachant Replacement Date and Time(d:hr:min) 9/3/99; 9:30
Initial pH of Leachant 6.123 Final pH of Leachate 11.088
Cation Analysis No. T12-003 Dilution Factor

12 Leachant Replacement Date and Time(d:hr:min) 9/7/99; 9:00
Initial pH of Leachant 5.777 Final pH of Leachate 10.958
Cation Analysis No. T13-003 Dilution Factor

13 Leachant Replacement Date and Time(d:hr:min) 9/10/99; 1000
Initial pH of Leachant 6.275 Final pH of Leachate 10.877
Cation Analysis No. T14-003 Dilution Factor

14 Leachant Replacement Date and Time(d:hr:min) 9/14/99; 9:15
Initial pH of Leachant 5.764 Final pH of Leachate 10.828
Cation Analysis No. T15-003 Dilution Factor

15 Leachant Replacement Date and Time(d:hr:min) 9/17/99; 9:00
Initial pH of Leachant 5.912 Final pH of Leachate 10.640
Cation Analysis No. T16-003 Dilution Factor

16 Leachant Replacement Date and Time(d:hr:min) 9/21/99; 10:00
Initial pH of Leachant 5.703 Final pH of Leachate 10.006
Cation Analysis No. T17-003 Dilution Factor

17 Leachant Replacement Date and Time(d:hr:min) 9/24/99; 10:30
Initial pH of Leachant 5.400 Final pH of Leachate 10.551
Cation Analysis No. T18-003 Dilution Factor

18 Leachant Replacement Date and Time(d:hr:min) 9/28/99; 9:30
Initial pH of Leachant 5.310 Final pH of Leachate 10.380
Cation Analysis No. T19-003 Dilution Factor

19 Leachant Replacement Date and Time(d:hr:min) 10/1/99; 9:30
Initial pH of Leachant 5.878 Final pH of Leachate ~~10.356~~ 10.218 RC 10/14/99
Cation Analysis No. T20-003 Dilution Factor

20 Leachant Replacement Date and Time(d:hr:min) 10/5/99; 9:30
Initial pH of Leachant 5.501 Final pH of Leachate 10.266
Cation Analysis No. T21-003 Dilution Factor

21 Leachant Replacement Date and Time(d:hr:min) 10/8/99; 9:30
Initial pH of Leachant 5.400 Final pH of Leachate 10.354
Cation Analysis No. T22-003 Dilution Factor

22 Leachant Replacement Date and Time(d:hr:min) 10/12/99; 9:45
Initial pH of Leachant 5.623 Final pH of Leachate 10.299
Cation Analysis No. T23-003 Dilution Factor

10/14/99

003

23 Leachant Replacement Date and Time(d:hr:min) 10/15/99 9:45
Initial pH of Leachant 5.539
Cation Analysis No. T24-003
Final pH of Leachate 10.144
Dilution Factor

24 Leachant Replacement Date and Time(d:hr:min) 10/26/99 10:00
Initial pH of Leachant 5.440
Cation Analysis No. T25-003
Final pH of Leachate 10.098
Dilution Factor

25 Leachant Replacement Date and Time(d:hr:min) 11/2/99 9:55
Initial pH of Leachant 5.335
Cation Analysis No. T26-003
Final pH of Leachate 10.239
Dilution Factor

26 Leachant Replacement Date and Time(d:hr:min) 11/9/99 9:30
Initial pH of Leachant 5.624
Cation Analysis No. T27-003
Final pH of Leachate 10.201
Dilution Factor

27 Leachant Replacement Date and Time(d:hr:min) 11/16/99 1:00
Initial pH of Leachant 5.325
Cation Analysis No. T28-003
Final pH of Leachate 10.278
Dilution Factor

28 Leachant Replacement Date and Time(d:hr:min) 11/23/99 10:30
Initial pH of Leachant 5.967
Cation Analysis No. T29-003
Final pH of Leachate 10.254
Dilution Factor

29 Leachant Replacement Date and Time(d:hr:min) 11/30/99 10:00
Initial pH of Leachant 5.400
Cation Analysis No. T30-003
Final pH of Leachate 10.195
Dilution Factor

30 Leachant Replacement Date and Time(d:hr:min) 12/7/99 11:15
Initial pH of Leachant 5.490
Cation Analysis No. T31-003
Final pH of Leachate 9.878
Dilution Factor

31 Leachant Replacement Date and Time(d:hr:min) 12/14/99 10:00
Initial pH of Leachant 5.846
Cation Analysis No. T32-003
Final pH of Leachate 10.083
Dilution Factor

32 Leachant Replacement Date and Time(d:hr:min) 12/21/99 10:00
Initial pH of Leachant 6.597
Cation Analysis No. T33-003
Final pH of Leachate 10.031
Dilution Factor

33 Leachant Replacement Date and Time(d:hr:min) 12/28/99 11:15
Initial pH of Leachant 5.882
Cation Analysis No. T34-003
Final pH of Leachate 10.115
Dilution Factor

34 Leachant Replacement Date and Time(d:hr:min) 1/4/00 10:30
Initial pH of Leachant 5.802
Cation Analysis No. T35-003
Final pH of Leachate 10.050
Dilution Factor

35 Leachant Replacement Date and Time(d:hr:min) 1/11/00 10:30
Initial pH of Leachant 5.705
Cation Analysis No. T36-003
Final pH of Leachate 9.993
Dilution Factor

36 Leachant Replacement Date and Time(d:hr:min) 1/18/00 10:50
Initial pH of Leachant 5.795
Cation Analysis No. T37-003
Final pH of Leachate 10.044
Dilution Factor

1/20/00

003

37 Leachant Replacement Date and Time(d:hr:min) 1/25/00 10:45
Initial pH of Leachant 5.752
Cation Analysis No. T38-003
Final pH of Leachate 10.008
Dilution Factor

38 Leachant Replacement Date and Time(d:hr:min) 2/2/00 3pm
Initial pH of Leachant 5.856
Cation Analysis No. T39-003
Final pH of Leachate 9.947
Dilution Factor

39 Leachant Replacement Date and Time(d:hr:min) 2/15/00 10:30
Initial pH of Leachant 5.488
Cation Analysis No. T40-003
Final pH of Leachate 10.065
Dilution Factor

40 Leachant Replacement Date and Time(d:hr:min) 2/27/00 2:30pm
Initial pH of Leachant 5.310
Cation Analysis No. T41-003
Final pH of Leachate 9.990
Dilution Factor

41 Leachant Replacement Date and Time(d:hr:min) 3/14/00 11:00am
Initial pH of Leachant 5.730
Cation Analysis No. T42-003
Final pH of Leachate 10.017
Dilution Factor

42 Leachant Replacement Date and Time(d:hr:min) 3/28/00 10:00am
Initial pH of Leachant 4.652
Cation Analysis No. T43-003
Final pH of Leachate 9.526
Dilution Factor

43 Leachant Replacement Date and Time(d:hr:min) 4/11/00 2:00pm
Initial pH of Leachant 6.097
Cation Analysis No. T44-003
Final pH of Leachate 8.780
Dilution Factor

44 Leachant Replacement Date and Time(d:hr:min) 4/25/00 2:00pm
Initial pH of Leachant 5.870
Cation Analysis No. T45-003
Final pH of Leachate 9.873
Dilution Factor

45 Leachant Replacement Date and Time(d:hr:min) 5/9/00 10:30
Initial pH of Leachant 6.077
Cation Analysis No. T46-003
Final pH of Leachate 8.419
Dilution Factor

46 Leachant Replacement Date and Time(d:hr:min) 5/23/00 2:00pm
Initial pH of Leachant 5.887
Cation Analysis No. T47-003
Final pH of Leachate 8.441
Dilution Factor

47 Leachant Replacement Date and Time(d:hr:min) 6/6/00 10:30
Initial pH of Leachant 5.895
Cation Analysis No. T48-003
Final pH of Leachate 9.967
Dilution Factor

6/6/00

48 Leachant Replacement Date and Time(d:hr:min) 6/20/00 1:00pm
Initial pH of Leachant 5.910
Cation Analysis No. T49-003
Final pH of Leachate 8.407
Dilution Factor

49 Leachant Replacement Date and Time(d:hr:min) 7/5/00 8:30
Initial pH of Leachant 6.011
Cation Analysis No. T50-003
Final pH of Leachate 8.903
Dilution Factor

50 Leachant Replacement Date and Time(d:hr:min) 7/18/00 10:30
Initial pH of Leachant 6.052
Cation Analysis No. T51-003
Final pH of Leachate 8.411
Dilution Factor

8/11/00

LONG-TERM TEST DATA SHEET

Test ID EAW-T2

Vessel ID No. 004 Batch Cleaning No. 7-21-99

Glass Sample ID EA
Sample Weight (g) 3.00178
Sample Preparation Date 7-26-99

Type of Solution DI H_2O
Leachant Volume (ml) 30
Initial pH of Leachant 5.784

Weight of Empty Vessel (g) 126.17435
Weight of Vessel + Sample (g) 129.18850
2nd Weight of Sample (Difference of the last two items) (g) 3.01415
Total Weight of Vessel + Sample + Solution (g) 158.76430

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 7/27/99; 10:20

Final pH of Leachate 12.009
Cation Analysis No. T1-004 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 7/30/99; 9:50
Initial pH of Leachant 5.768 Final pH of Leachate 12.025
Cation Analysis No. T2-004 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 8/3/99; 9:15
Initial pH of Leachant 5.904 Final pH of Leachate 11.756
Cation Analysis No. T3-004 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 8/6/99; 10:05
Initial pH of Leachant 5.913 Final pH of Leachate 11.820
Cation Analysis No. T4-004 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 8/10/99; 10:25
Initial pH of Leachant 5.906 Final pH of Leachate 11.578
Cation Analysis No. ~~T5-005~~ MB 8/12/99 T5-004 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 8/13/99; 10:15
Initial pH of Leachant 6.258 Final pH of Leachate 11.544
Cation Analysis No. T6-004 Dilution Factor

6 Leachant Replacement Date and Time(d:hr:min) 8/17/99; 10:12
Initial pH of Leachant 5.914 Final pH of Leachate 11.485
Cation Analysis No. T7-004 Dilution Factor

7 Leachant Replacement Date and Time(d:hr:min) 8/20/99; 8:50
Initial pH of Leachant 5.919 Final pH of Leachate 11.467
Cation Analysis No. T8-004 Dilution Factor

8 Leachant Replacement Date and Time(d:hr:min) 8/24/99; 9:00
Initial pH of Leachant 5.581 Final pH of Leachate 11.398
Cation Analysis No. T9-004 Dilution Factor

8/26/99

004

9 Leachant Replacement Date and Time(d:hr:min) 8/27/99; 8:45
Initial pH of Leachant 5.658 Final pH of Leachate 11.321
Cation Analysis No. T10-004 Dilution Factor

10 Leachant Replacement Date and Time(d:hr:min) 8/31/99; 9:30
Initial pH of Leachant ~~T11-004~~ 5.402 Final pH of Leachate 11.244
Cation Analysis No. T11-004 Dilution Factor

11 Leachant Replacement Date and Time(d:hr:min) 9/3/99; 9:30
Initial pH of Leachant 6.123 Final pH of Leachate 11.136
Cation Analysis No. T12-004 Dilution Factor

12 Leachant Replacement Date and Time(d:hr:min) 9/7/99; 9:00
Initial pH of Leachant 5.777 Final pH of Leachate 11.016
Cation Analysis No. T13-004 Dilution Factor

13 Leachant Replacement Date and Time(d:hr:min) 9/10/99; 10:00
Initial pH of Leachant 6.275 Final pH of Leachate 10.925
Cation Analysis No. T14-004 Dilution Factor

14 Leachant Replacement Date and Time(d:hr:min) 9/14/99; 9:15
Initial pH of Leachant 5.764 Final pH of Leachate 10.851
Cation Analysis No. T15-004 Dilution Factor

15 Leachant Replacement Date and Time(d:hr:min) 9/17/99; 9:00
Initial pH of Leachant 5.912 Final pH of Leachate 10.646
Cation Analysis No. T16-004 Dilution Factor

16 Leachant Replacement Date and Time(d:hr:min) 9/21/99; 10:00
Initial pH of Leachant 5.703 Final pH of Leachate 10.242
Cation Analysis No. T17-004 Dilution Factor

17 Leachant Replacement Date and Time(d:hr:min) 9/24/99; 10:30
Initial pH of Leachant 5.400 Final pH of Leachate 10.557
Cation Analysis No. T18-004 Dilution Factor

18 Leachant Replacement Date and Time(d:hr:min) 9/28/99; 9:30
Initial pH of Leachant 5.310 Final pH of Leachate 10.377
Cation Analysis No. T19-004 Dilution Factor

19 Leachant Replacement Date and Time(d:hr:min) 10/1/99; 9:30
Initial pH of Leachant 5.878 Final pH of Leachate ~~10.266~~ 10/5/99 10.214
Cation Analysis No. T20-004 Dilution Factor

20 Leachant Replacement Date and Time(d:hr:min) 10/5/99; 9:30
Initial pH of Leachant 5.501 Final pH of Leachate 10.031
Cation Analysis No. T21-004 Dilution Factor

21 Leachant Replacement Date and Time(d:hr:min) 10/8/99; 9:30
Initial pH of Leachant 5.400 Final pH of Leachate 10.360
Cation Analysis No. T22-004 Dilution Factor

22 Leachant Replacement Date and Time(d:hr:min) 10/12/99; 9:45
Initial pH of Leachant 5.623 Final pH of Leachate 10.003
Cation Analysis No. T23-004 Dilution Factor

10/14/99

004

23 Leachant Replacement Date and Time(d:hr:min) 10/15/99 9:45
Initial pH of Leachant 5.539 — Final pH of Leachate 10.205
Cation Analysis No. T24-004 — Dilution Factor

24 Leachant Replacement Date and Time(d:hr:min) 10/26/99 10:00
Initial pH of Leachant 5.440 — Final pH of Leachate 10.165
Cation Analysis No. T25-004 — Dilution Factor

25 Leachant Replacement Date and Time(d:hr:min) 11/2/99 9:55
Initial pH of Leachant 5.335 — Final pH of Leachate 10.219
Cation Analysis No. T26-004 — Dilution Factor

26 Leachant Replacement Date and Time(d:hr:min) ~~11/16/99 1:00~~ 11/19/99 9:30
Initial pH of Leachant 5.624 — Final pH of Leachate 10.210
Cation Analysis No. T27-004 — Dilution Factor

27 Leachant Replacement Date and Time(d:hr:min) ~~11/23/99 10:30~~ 11/16/99 1:00
Initial pH of Leachant 5.325 — Final pH of Leachate 10.291
Cation Analysis No. T28-004 — Dilution Factor

28 Leachant Replacement Date and Time(d:hr:min) 11/23/99 10:30
Initial pH of Leachant 5.967 — Final pH of Leachate 10.234
Cation Analysis No. T29-004 — Dilution Factor

29 Leachant Replacement Date and Time(d:hr:min) 11/30/99 10:00
Initial pH of Leachant 5.400 — Final pH of Leachate 10.191
Cation Analysis No. T30-004 — Dilution Factor

30 Leachant Replacement Date and Time(d:hr:min) 12/7/99 11:15
Initial pH of Leachant 5.490 — Final pH of Leachate 10.128
Cation Analysis No. T31-004 — Dilution Factor

31 Leachant Replacement Date and Time(d:hr:min) 12/14/99 10:00
Initial pH of Leachant 5.846 — Final pH of Leachate 10.137
Cation Analysis No. T32-004 — Dilution Factor

32 Leachant Replacement Date and Time(d:hr:min) 12/21/99 10:00
Initial pH of Leachant 6.597 — Final pH of Leachate 10.133
Cation Analysis No. T33-004 — Dilution Factor

33 Leachant Replacement Date and Time(d:hr:min) 12/28/99 11:15
Initial pH of Leachant 5.882 — Final pH of Leachate 10.118
Cation Analysis No. T34-004 — Dilution Factor

34 Leachant Replacement Date and Time(d:hr:min) 1/4/00 10:30
Initial pH of Leachant 5.802 — Final pH of Leachate 10.029
Cation Analysis No. T35-004 — Dilution Factor

35 Leachant Replacement Date and Time(d:hr:min) 1/11/00 10:30
Initial pH of Leachant 5.705 — Final pH of Leachate 10.009
Cation Analysis No. T36-004 — Dilution Factor

36 Leachant Replacement Date and Time(d:hr:min) 1/18/00 10:50
Initial pH of Leachant ~~8.59~~ 5.795 — Final pH of Leachate 10.087
Cation Analysis No. T37-004 — Dilution Factor

1/20/00

004

37 Leachant Replacement Date and Time(d:hr:min) 1/25/00 10:45
Initial pH of Leachant 5.752 — Final pH of Leachate 9.692
Cation Analysis No. T38-004 — Dilution Factor

38 Leachant Replacement Date and Time(d:hr:min) 2/2/00 3pm
Initial pH of Leachant 5.856 — Final pH of Leachate 9.982
Cation Analysis No. T39-004 — Dilution Factor

39 Leachant Replacement Date and Time(d:hr:min) 2/15/00 10:30
Initial pH of Leachant 5.488 — Final pH of Leachate 9.894
Cation Analysis No. T40-004 — Dilution Factor

40 Leachant Replacement Date and Time(d:hr:min) 2/29/00 2:30pm
Initial pH of Leachant 5.310 — Final pH of Leachate 9.936
Cation Analysis No. T41-004 — Dilution Factor

41 Leachant Replacement Date and Time(d:hr:min) 3/14/00 11:00am
Initial pH of Leachant 5.730 — Final pH of Leachate 9.878
Cation Analysis No. T42-004 — Dilution Factor

42 Leachant Replacement Date and Time(d:hr:min) 3/28/00 10:00am
Initial pH of Leachant 4.652 — Final pH of Leachate 9.659
Cation Analysis No. T43-004 — Dilution Factor

43 Leachant Replacement Date and Time(d:hr:min) 4/11/00 2:00pm
Initial pH of Leachant 6.097 — Final pH of Leachate 9.827
Cation Analysis No. T44-004 — Dilution Factor

44 Leachant Replacement Date and Time(d:hr:min) 4/25/00 2:00pm
Initial pH of Leachant 5.870 — Final pH of Leachate 9.911
Cation Analysis No. T45-004 — Dilution Factor

45 Leachant Replacement Date and Time(d:hr:min) 5/9/00 10:30
Initial pH of Leachant 6.077 — Final pH of Leachate 8.581
Cation Analysis No. T46-004 — Dilution Factor

46 Leachant Replacement Date and Time(d:hr:min) 5/23/00 2:00pm
Initial pH of Leachant 5.887 — Final pH of Leachate 8.454
Cation Analysis No. T47-004 — Dilution Factor

47 Leachant Replacement Date and Time(d:hr:min) 6/6/00 10:30
Initial pH of Leachant 5.895 — Final pH of Leachate 10.010
Cation Analysis No. T48-004 — Dilution Factor

6/6/00

48 Leachant Replacement Date and Time(d:hr:min) 6/20/00 1:00pm
Initial pH of Leachant 5.910 — Final pH of Leachate 9.957
Cation Analysis No. T49-004 — Dilution Factor

49 Leachant Replacement Date and Time(d:hr:min) 7/5/00 8:30
Initial pH of Leachant 6.011 — Final pH of Leachate 9.284
Cation Analysis No. T50-004 — Dilution Factor

50 Leachant Replacement Date and Time(d:hr:min) 7/18/00 10:30
Initial pH of Leachant 6.052 — Final pH of Leachate 9.336
Cation Analysis No. T51-004 — Dilution Factor

8/11/00

LONG-TERM TEST DATA SHEET

Test ID EAW-T3

Vessel ID No. 005 Batch Cleaning No. 7-21-99

Glass Sample ID EA
Sample Weight (g) 3.00047
Sample Preparation Date 7-26-99

Type of Solution DI H_2O
Leachant Volume (ml) 30
Initial pH of Leachant 5.784

Weight of Empty Vessel (g) 125.90580
Weight of Vessel + Sample (g) 128.93540
2nd Weight of Sample (Difference of the last two items) (g) ~~[illegible]~~ JB 7/26/99 3.02960
Total Weight of Vessel + Sample + Solution (g) 158.52260

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 7/27/99; 10:20

Final pH of Leachate 12.011
Cation Analysis No. T1-005 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 7/30/99; 9:50
Initial pH of Leachant 5.768 Final pH of Leachate 12.010
Cation Analysis No. T2-005 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 8/3/99; 9:15
Initial pH of Leachant 5.904 Final pH of Leachate ~~7/AB~~ 8/6/99 11.727
Cation Analysis No. T3-005 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 8/6/99; 10:05
Initial pH of Leachant 5.913 Final pH of Leachate 11.808
Cation Analysis No. T4-005 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 8/10/99; 10:25
Initial pH of Leachant 5.906 Final pH of Leachate 11.550
Cation Analysis No. T5-005 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 8/13/99; 10:15
Initial pH of Leachant 6.258 Final pH of Leachate 11.545
Cation Analysis No. T6-005 Dilution Factor

6 Leachant Replacement Date and Time(d:hr:min) 8/17/99; 10:12
Initial pH of Leachant 5.914 Final pH of Leachate 11.499
Cation Analysis No. T7-005 Dilution Factor

7 Leachant Replacement Date and Time(d:hr:min) 8/20/99; 8:50
Initial pH of Leachant 5.919 Final pH of Leachate 11.469
Cation Analysis No. T8-005 Dilution Factor

8 Leachant Replacement Date and Time(d:hr:min) 8/24/99; 9:00
Initial pH of Leachant 5.581 Final pH of Leachate 11.418
Cation Analysis No. T9-005 Dilution Factor

M. J. Pan
8/26/99

005

9 Leachant Replacement Date and Time(d:hr:min) 8/27/99; 8:45
Initial pH of Leachant 5.658 Final pH of Leachate 11.343
Cation Analysis No. T10-005 Dilution Factor

10 Leachant Replacement Date and Time(d:hr:min) 8/31/99; 9:30
Initial pH of Leachant ~~T11-005~~ 5.402 Final pH of Leachate 11.260
Cation Analysis No. T11-005 Dilution Factor

11 Leachant Replacement Date and Time(d:hr:min) 9/3/99; 9:30
Initial pH of Leachant 6.123 Final pH of Leachate 11.179
Cation Analysis No. T12-005 Dilution Factor

12 Leachant Replacement Date and Time(d:hr:min) 9/7/99; 9:30
Initial pH of Leachant 5.777 Final pH of Leachate 11.068
Cation Analysis No. T13-005 Dilution Factor

13 Leachant Replacement Date and Time(d:hr:min) 9/10/99; 10:00
Initial pH of Leachant 6.275 Final pH of Leachate 10.993
Cation Analysis No. T14-005 Dilution Factor

14 Leachant Replacement Date and Time(d:hr:min) 9/14/99; 9:15
Initial pH of Leachant 5.764 Final pH of Leachate 10.908
Cation Analysis No. T15-005 Dilution Factor

15 Leachant Replacement Date and Time(d:hr:min) 9/17/99; 9:00
Initial pH of Leachant T16-005 Final pH of Leachate 10.762
Cation Analysis No. 5.912 Dilution Factor

16 Leachant Replacement Date and Time(d:hr:min) 9/21/99; 10:00
Initial pH of Leachant 5.703 Final pH of Leachate 10.223
Cation Analysis No. T17-005 Dilution Factor

17 Leachant Replacement Date and Time(d:hr:min) 9/24/99; 10:30
Initial pH of Leachant 5.400 Final pH of Leachate 10.625
Cation Analysis No. T18-005 Dilution Factor

18 Leachant Replacement Date and Time(d:hr:min) 9/28/99; 9:30
Initial pH of Leachant 5.310 Final pH of Leachate 10.453
Cation Analysis No. T19-005 Dilution Factor

19 Leachant Replacement Date and Time(d:hr:min) 10/1/99; 9:30
Initial pH of Leachant 5.878 Final pH of Leachate 10.209
Cation Analysis No. T20-005 Dilution Factor

20 Leachant Replacement Date and Time(d:hr:min) 10/5/99; 9:30
Initial pH of Leachant 5.501 Final pH of Leachate 9.879
Cation Analysis No. T21-005 Dilution Factor

21 Leachant Replacement Date and Time(d:hr:min) 10/8/99; 9:30
Initial pH of Leachant 5.400 Final pH of Leachate 10.409
Cation Analysis No. T22-005 Dilution Factor

22 Leachant Replacement Date and Time(d:hr:min) 10/12/99; 9:45
Initial pH of Leachant 5.623 Final pH of Leachate 10.353
Cation Analysis No. T23-005 Dilution Factor

M. J. Pan
10/14/99

005

23 Leachant Replacement Date and Time(d:hr:min) 10/15/99 9:45
Initial pH of Leachant 5.539 Final pH of Leachate 10.252
Cation Analysis No. T24-005 Dilution Factor

24 Leachant Replacement Date and Time(d:hr:min) 10/26/99 10:00
Initial pH of Leachant 5.440 Final pH of Leachate 10.144
Cation Analysis No. T25-005 Dilution Factor

25 Leachant Replacement Date and Time(d:hr:min) 11/2/99 9:55
Initial pH of Leachant 5.335 Final pH of Leachate 10.254
Cation Analysis No. T26-005 Dilution Factor

26 Leachant Replacement Date and Time(d:hr:min) 11/9/99 9:30
Initial pH of Leachant 5.624 Final pH of Leachate 10.260
Cation Analysis No. T27-005 Dilution Factor

27 Leachant Replacement Date and Time(d:hr:min) 11/16/99 1:00
Initial pH of Leachant 5.325 Final pH of Leachate 10.314
Cation Analysis No. T28-005 Dilution Factor

28 Leachant Replacement Date and Time(d:hr:min) 11/23/99 10:30
Initial pH of Leachant 5.967 Final pH of Leachate 10.250
Cation Analysis No. T29-005 Dilution Factor

29 Leachant Replacement Date and Time(d:hr:min) 11/30/99 10:00
Initial pH of Leachant 5.400 Final pH of Leachate 10.261
Cation Analysis No. T30-005 Dilution Factor

30 Leachant Replacement Date and Time(d:hr:min) 12/7/99 11:15
Initial pH of Leachant 5.490 Final pH of Leachate 10.127
Cation Analysis No. T31-005 Dilution Factor

31 Leachant Replacement Date and Time(d:hr:min) 12/14/99 10:00
Initial pH of Leachant 5.846 Final pH of Leachate 10.109
Cation Analysis No. T32-005 Dilution Factor

32 Leachant Replacement Date and Time(d:hr:min) 12/21/99 10:00
Initial pH of Leachant 6.597 Final pH of Leachate 10.155
Cation Analysis No. T33-005 Dilution Factor

33 Leachant Replacement Date and Time(d:hr:min) 12/28/99 11:15
Initial pH of Leachant 5.882 Final pH of Leachate 10.134
Cation Analysis No. T34-005 Dilution Factor

34 Leachant Replacement Date and Time(d:hr:min) 1/4/00 10:30
Initial pH of Leachant 5.802 Final pH of Leachate 9.923
Cation Analysis No. T35-005 Dilution Factor

35 Leachant Replacement Date and Time(d:hr:min) 1/11/00 10:30
Initial pH of Leachant 5.705 Final pH of Leachate 10.113
Cation Analysis No. T36-005 Dilution Factor

36 Leachant Replacement Date and Time(d:hr:min) 1/18/00 10:50
Initial pH of Leachant 5.795 Final pH of Leachate 10.108
Cation Analysis No. T37-005 Dilution Factor

1/20/00

005

37 Leachant Replacement Date and Time(d:hr:min) 1/25/00 10:45
Initial pH of Leachant 5.752 Final pH of Leachate 9.948
Cation Analysis No. T38-005 Dilution Factor

38 Leachant Replacement Date and Time(d:hr:min) 2/2/00 3pm
Initial pH of Leachant 5.856 Final pH of Leachate 10.043
Cation Analysis No. T39-005 Dilution Factor

39 Leachant Replacement Date and Time(d:hr:min) 2/15/00 10:30
Initial pH of Leachant 5.488 Final pH of Leachate 9.940
Cation Analysis No. T40-005 Dilution Factor

40 Leachant Replacement Date and Time(d:hr:min) 2/29/00 2:30pm
Initial pH of Leachant 5.310 Final pH of Leachate 10.007
Cation Analysis No. T41-005 Dilution Factor

41 Leachant Replacement Date and Time(d:hr:min) 3/14/00 11:00am
Initial pH of Leachant 5.730 Final pH of Leachate 9.976
Cation Analysis No. T42-005 Dilution Factor

42 Leachant Replacement Date and Time(d:hr:min) 3/28/00 10:00am
Initial pH of Leachant 4.652 Final pH of Leachate 9.943
Cation Analysis No. T43-005 Dilution Factor

43 Leachant Replacement Date and Time(d:hr:min) 4/11/00 2:00
Initial pH of Leachant 6.097 Final pH of Leachate 9.647
Cation Analysis No. T44-005 Dilution Factor

44 Leachant Replacement Date and Time(d:hr:min) 4/25/00 2:00
Initial pH of Leachant 5.870 Final pH of Leachate 9.928
Cation Analysis No. T45-005 Dilution Factor

45 Leachant Replacement Date and Time(d:hr:min) 5/9/00 10:30
Initial pH of Leachant ~~6.087~~ 6.077 5/9/00 Final pH of Leachate 9.463
Cation Analysis No. T46-005 Dilution Factor

46 Leachant Replacement Date and Time(d:hr:min) 5/23/00 2:00pm
Initial pH of Leachant 5.887 Final pH of Leachate 9.674
Cation Analysis No. T47-005 Dilution Factor

47 Leachant Replacement Date and Time(d:hr:min) 6/6/00 10:30
Initial pH of Leachant 5.895 Final pH of Leachate 9.884
Cation Analysis No. T48-005 Dilution Factor

6/6/00

48 Leachant Replacement Date and Time(d:hr:min) 6/20/00 1:00pm
Initial pH of Leachant 5.910 Final pH of Leachate 9.007
Cation Analysis No. T49-005 Dilution Factor

49 Leachant Replacement Date and Time(d:hr:min) 7/5/00 8:30
Initial pH of Leachant 6.011 Final pH of Leachate 9.672
Cation Analysis No. T50-005 Dilution Factor

50 Leachant Replacement Date and Time(d:hr:min) 7/18/00 10:30
Initial pH of Leachant 6.052 Final pH of Leachate 8.988
Cation Analysis No. T51-005 Dilution Factor

8/11/00

LONG-TERM TEST DATA SHEET

Test ID SRSW-T1

Vessel ID No. 006 Batch Cleaning No. 7-21-99

Glass Sample ID SRS
Sample Weight (g) 3.00180
Sample Preparation Date 7-26-99

Type of Solution DI H_2O
Leachant Volume (ml) 30
Initial pH of Leachant 5.784

Weight of Empty Vessel (g) 127.38690
Weight of Vessel + Sample (g) 130.40625
2nd Weight of Sample (Difference of the last two items) (g) 3.01935
Total Weight of Vessel + Sample + Solution (g) 160.15885

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 7/27/99; 10:20

Final pH of Leachate 10.493
Cation Analysis No. T1-006 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 7/30/99; 9:50
Initial pH of Leachant 5.768 Final pH of Leachate 10.449
Cation Analysis No. T2-006 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 8/3/99; 9:15
Initial pH of Leachant 5.904 Final pH of Leachate 10.197
Cation Analysis No. T3-006 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 8/6/99; 10:05
Initial pH of Leachant 5.913 Final pH of Leachate 10.234
Cation Analysis No. T4-006 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 8/10/99; 10:25
Initial pH of Leachant 5.906 Final pH of Leachate 9.992
Cation Analysis No. T5-006 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 8/13/99; 10:15
Initial pH of Leachant 6.258 Final pH of Leachate 10.111
Cation Analysis No. T6-006 Dilution Factor

6 Leachant Replacement Date and Time(d:hr:min) 8/17/99; 10:12
Initial pH of Leachant 5.914 Final pH of Leachate 10.069
Cation Analysis No. T7-006 Dilution Factor

7 Leachant Replacement Date and Time(d:hr:min) 8/20/99; 8:50
Initial pH of Leachant 5.919 Final pH of Leachate 10.131
Cation Analysis No. T8-006 Dilution Factor

8 Leachant Replacement Date and Time(d:hr:min) 8/24/99; 9:00
Initial pH of Leachant 5.581 Final pH of Leachate 10.081
Cation Analysis No. T9-006 Dilution Factor

8/26/99

006

9 Leachant Replacement Date and Time(d:hr:min) 8/27/99; 8:45
Initial pH of Leachant 5.658 Final pH of Leachate 10.146
Cation Analysis No. T10-006 Dilution Factor

10 Leachant Replacement Date and Time(d:hr:min) 8/31/99; 9:30
Initial pH of Leachant 5.402 Final pH of Leachate 10.133
Cation Analysis No. T11-006 Dilution Factor

11 Leachant Replacement Date and Time(d:hr:min) 9/3/99; 9:30
Initial pH of Leachant 6.123 Final pH of Leachate 10.133
Cation Analysis No. T12-006 Dilution Factor

12 Leachant Replacement Date and Time(d:hr:min) 9/7/99; 9:00
Initial pH of Leachant 5.777 Final pH of Leachate 10.090
Cation Analysis No. T13-006 Dilution Factor

13 Leachant Replacement Date and Time(d:hr:min) 9/10/99; 10:00
Initial pH of Leachant 6.275 Final pH of Leachate 10.130
Cation Analysis No. T14-006 Dilution Factor

14 Leachant Replacement Date and Time(d:hr:min) 9/14/99; 9:15
Initial pH of Leachant 5.764 Final pH of Leachate 10.125
Cation Analysis No. T15-006 Dilution Factor

15 Leachant Replacement Date and Time(d:hr:min) 9/17/99; 9:00
Initial pH of Leachant T16-006 Final pH of Leachate 10.156
Cation Analysis No. 5.912 Dilution Factor

16 Leachant Replacement Date and Time(d:hr:min) 9/21/99; 10:00
Initial pH of Leachant 5.703 Final pH of Leachate 9.627
Cation Analysis No. T17-006 Dilution Factor

17 Leachant Replacement Date and Time(d:hr:min) 9/24/99; 10:30
Initial pH of Leachant 5.400 Final pH of Leachate 10.169
Cation Analysis No. T18-006 Dilution Factor

18 Leachant Replacement Date and Time(d:hr:min) 9/28/99; 9:30
Initial pH of Leachant 5.310 Final pH of Leachate 10.004
Cation Analysis No. T19-006 Dilution Factor

19 Leachant Replacement Date and Time(d:hr:min) 10/1/99; 9:30
Initial pH of Leachant 5.878 Final pH of Leachate 10.018
Cation Analysis No. T20-006 Dilution Factor

20 Leachant Replacement Date and Time(d:hr:min) 10/5/99; 9:30
Initial pH of Leachant 5.501 Final pH of Leachate 9.984
Cation Analysis No. T21-006 Dilution Factor

21 Leachant Replacement Date and Time(d:hr:min) 10/8/99; 9:30
Initial pH of Leachant 5.400 Final pH of Leachate 10.096
Cation Analysis No. T22-006 Dilution Factor

22 Leachant Replacement Date and Time(d:hr:min) 10/12/99; 9:45
Initial pH of Leachant 5.623 Final pH of Leachate 10.126
Cation Analysis No. T23-006 Dilution Factor

10/14/99

006

23 Leachant Replacement Date and Time(d:hr:min) 10/15/99 9:45
Initial pH of Leachant 5.539 Final pH of Leachate 10.097
Cation Analysis No. T24-006 Dilution Factor

24 Leachant Replacement Date and Time(d:hr:min) 10/26/99 10:00
Initial pH of Leachant 5.440 Final pH of Leachate 10.151
Cation Analysis No. T25-006 Dilution Factor

25 Leachant Replacement Date and Time(d:hr:min) 11/2/99 9:55
Initial pH of Leachant 5.335 Final pH of Leachate 10.187
Cation Analysis No. T26-006 Dilution Factor

26 Leachant Replacement Date and Time(d:hr:min) 11/9/99 9:30
Initial pH of Leachant 5.624 Final pH of Leachate 10.194
Cation Analysis No. T27-006 Dilution Factor

27 Leachant Replacement Date and Time(d:hr:min) 11/16/99 1:00
Initial pH of Leachant 5.325 Final pH of Leachate 10.260
Cation Analysis No. T28-006 Dilution Factor

28 Leachant Replacement Date and Time(d:hr:min) 11/23/99 10:30
Initial pH of Leachant 5.967 Final pH of Leachate 10.242
Cation Analysis No. T29-006 Dilution Factor

29 Leachant Replacement Date and Time(d:hr:min) 11/30/99 10:00
Initial pH of Leachant 5.400 Final pH of Leachate 10.171
Cation Analysis No. T30-006 Dilution Factor

30 Leachant Replacement Date and Time(d:hr:min) 12/7/99 11:15
Initial pH of Leachant 5.490 Final pH of Leachate 10.138
Cation Analysis No. T31-006 Dilution Factor

31 Leachant Replacement Date and Time(d:hr:min) 12/14/99 10:00
Initial pH of Leachant 5.846 Final pH of Leachate 10.160
Cation Analysis No. T32-006 Dilution Factor

32 Leachant Replacement Date and Time(d:hr:min) 12/21/99 10:00
Initial pH of Leachant 6.597 Final pH of Leachate 10.174
Cation Analysis No. T33-006 Dilution Factor

33 Leachant Replacement Date and Time(d:hr:min) 12/28/99 11:15
Initial pH of Leachant 5.882 Final pH of Leachate 10.150
Cation Analysis No. T34-006 Dilution Factor

34 Leachant Replacement Date and Time(d:hr:min) 1/4/00 10:30
Initial pH of Leachant 5.802 Final pH of Leachate 10.082
Cation Analysis No. T35-006 Dilution Factor

35 Leachant Replacement Date and Time(d:hr:min) 1/11/00 10:30
Initial pH of Leachant 5.705 Final pH of Leachate 10.162
Cation Analysis No. T36-006 Dilution Factor

36 Leachant Replacement Date and Time(d:hr:min) 1/18/00 10:50
Initial pH of Leachant 5.795 Final pH of Leachate 10.202
Cation Analysis No. T37-006 Dilution Factor

1/20/00

006

37 Leachant Replacement Date and Time(d:hr:min) 1/25/00 10:45
Initial pH of Leachant 5.752 Final pH of Leachate 10.136
Cation Analysis No. T38-006 Dilution Factor

38 Leachant Replacement Date and Time(d:hr:min) 2/2/00 3pm
Initial pH of Leachant 5.856 Final pH of Leachate 10.253
Cation Analysis No. T39-006 Dilution Factor

39 Leachant Replacement Date and Time(d:hr:min) 2/15/00 10:30
Initial pH of Leachant 5.488 Final pH of Leachate 10.235
Cation Analysis No. T40-006 Dilution Factor

40 Leachant Replacement Date and Time(d:hr:min) 2/29/00 2:30am
Initial pH of Leachant 5.310 Final pH of Leachate 10.195
Cation Analysis No. T41-006 Dilution Factor

41 Leachant Replacement Date and Time(d:hr:min) 3/14/00 11:00am
Initial pH of Leachant 5.730 Final pH of Leachate 9.967
Cation Analysis No. T42-006 Dilution Factor

42 Leachant Replacement Date and Time(d:hr:min) 3/28/00 10:00am
Initial pH of Leachant 4.652 Final pH of Leachate 10.131
Cation Analysis No. T43-006 Dilution Factor

43 Leachant Replacement Date and Time(d:hr:min) 4/11/00 2:00
Initial pH of Leachant 6.097 Final pH of Leachate 10.239
Cation Analysis No. T44-006 Dilution Factor

44 Leachant Replacement Date and Time(d:hr:min) 4/25/00 2:00
Initial pH of Leachant 5.870 Final pH of Leachate 10.143
Cation Analysis No. T45-006 Dilution Factor

45 Leachant Replacement Date and Time(d:hr:min) 5/9/00 10:30
Initial pH of Leachant 6.077 Final pH of Leachate 9.774
Cation Analysis No. T46-006 Dilution Factor

46 Leachant Replacement Date and Time(d:hr:min) 5/23/00 2:00pm
Initial pH of Leachant 5.887 Final pH of Leachate 9.848
Cation Analysis No. T47-006 Dilution Factor

47 Leachant Replacement Date and Time(d:hr:min) 6/6/00 10:30
Initial pH of Leachant 5.895 Final pH of Leachate 10.260
Cation Analysis No. T48-006 Dilution Factor

6/6/00

48 Leachant Replacement Date and Time(d:hr:min) 6/20/00 1:00pm
Initial pH of Leachant 5.910 Final pH of Leachate 9.966
Cation Analysis No. T49-006 Dilution Factor

49 Leachant Replacement Date and Time(d:hr:min) 7/5/00 8:30
Initial pH of Leachant 6.011 Final pH of Leachate 10.204
Cation Analysis No. T50-006 Dilution Factor

50 Leachant Replacement Date and Time(d:hr:min) 7/18/00 10:30
Initial pH of Leachant 6.052 Final pH of Leachate 10.156
Cation Analysis No. T51-006 Dilution Factor

8/11/00

LONG-TERM TEST DATA SHEET

Test ID SRSW-T2

Vessel ID No. 007 Batch Cleaning No. 7/21-99

Glass Sample ID SRS
Sample Weight (g) 3.00106
Sample Preparation Date 7-26-99

Type of Solution DI H_2O
Leachant Volume (ml) 30
Initial pH of Leachant 5.784

Weight of Empty Vessel (g) 127.00080
Weight of Vessel + Sample (g) 130.02330
2nd Weight of Sample (Difference of the last two items) (g) 3.02250
Total Weight of Vessel + Sample + Solution (g) 159.73185

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 7/27/99; 10:20

Final pH of Leachate 10.482
Cation Analysis No. T1-007 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 7/30/99; 9:50
Initial pH of Leachant 5.768 Final pH of Leachate 10.635
Cation Analysis No. T2-007 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 8/3/99; 9:15
Initial pH of Leachant 5.904 Final pH of Leachate 10.078
Cation Analysis No. T3-007 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 8/6/99; 10:05
Initial pH of Leachant 5.913 Final pH of Leachate 10.259
Cation Analysis No. T4-007 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 8/10/99; 10:25
Initial pH of Leachant 5.906 Final pH of Leachate 10.001
Cation Analysis No. T5-007 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 8/13/99; 10:15
Initial pH of Leachant 6.258 Final pH of Leachate 10.128
Cation Analysis No. T6-007 Dilution Factor

6 Leachant Replacement Date and Time(d:hr:min) 8/17/99; 10:12
Initial pH of Leachant 5.914 Final pH of Leachate 10.071
Cation Analysis No. T7-007 Dilution Factor

7 Leachant Replacement Date and Time(d:hr:min) 8/20/99; 8:50
Initial pH of Leachant 5.919 Final pH of Leachate 10.133
Cation Analysis No. T8-007 Dilution Factor

8 Leachant Replacement Date and Time(d:hr:min) 8/24/99; 9:00
Initial pH of Leachant 5.581 Final pH of Leachate 10.088
Cation Analysis No. T9-007 Dilution Factor

8/26/99

007

9 Leachant Replacement Date and Time(d:hr:min) 8/27/99; 8:45
Initial pH of Leachant 5.658 Final pH of Leachate 10.142
Cation Analysis No. T10-007 Dilution Factor

10 Leachant Replacement Date and Time(d:hr:min) 8/31/99; 9:30
Initial pH of Leachant 5.402 Final pH of Leachate 10.118
Cation Analysis No. T11-007 Dilution Factor

11 Leachant Replacement Date and Time(d:hr:min) 9/3/99; 9:30
Initial pH of Leachant 6.123 Final pH of Leachate 10.137
Cation Analysis No. T12-007 Dilution Factor

12 Leachant Replacement Date and Time(d:hr:min) 9/7/99; 9:00
Initial pH of Leachant 5.777 Final pH of Leachate 10.073
Cation Analysis No. T13-007 Dilution Factor

13 Leachant Replacement Date and Time(d:hr:min) 9/10/99; 10:00
Initial pH of Leachant 6.275 Final pH of Leachate 10.146
Cation Analysis No. T14-007 Dilution Factor

14 Leachant Replacement Date and Time(d:hr:min) 9/14/99; 9:15
Initial pH of Leachant 5.764 Final pH of Leachate 10.132
Cation Analysis No. T15-007 Dilution Factor

15 Leachant Replacement Date and Time(d:hr:min) 9/17/99; 9:00
Initial pH of Leachant T16-007 Final pH of Leachate 10.162
Cation Analysis No. 5.912 Dilution Factor

16 Leachant Replacement Date and Time(d:hr:min) 9/21/99; 10:00
Initial pH of Leachant 5.703 Final pH of Leachate 9.552
Cation Analysis No. ~~5.7~~ T17-007 Dilution Factor

17 Leachant Replacement Date and Time(d:hr:min) 9/24/99; 10:30
Initial pH of Leachant 5.400 Final pH of Leachate 10.172
Cation Analysis No. T18-007 Dilution Factor

18 Leachant Replacement Date and Time(d:hr:min) 9/28/99; 9:30
Initial pH of Leachant 5.310 Final pH of Leachate 10.039
Cation Analysis No. T19-007 Dilution Factor

19 Leachant Replacement Date and Time(d:hr:min) 10/1/99; 9:30
Initial pH of Leachant 5.878 Final pH of Leachate 10.037
Cation Analysis No. T20-007 Dilution Factor

20 Leachant Replacement Date and Time(d:hr:min) 10/5/99; 9:30
Initial pH of Leachant 5.501 Final pH of Leachate 10.070
Cation Analysis No. T21-007 Dilution Factor

21 Leachant Replacement Date and Time(d:hr:min) 10/8/99; 9:30
Initial pH of Leachant 5.400 Final pH of Leachate 9.997
Cation Analysis No. T22-007 Dilution Factor

22 Leachant Replacement Date and Time(d:hr:min) 10/12/99 9:45
Initial pH of Leachant 5.623 Final pH of Leachate 10.051
Cation Analysis No. T23-007 Dilution Factor

10/14/99

007

23 Leachant Replacement Date and Time(d:hr:min) 10/15/99 9:45
Initial pH of Leachant 5.539 — Final pH of Leachate 10.100
Cation Analysis No. T24-007 — Dilution Factor

24 Leachant Replacement Date and Time(d:hr:min) 10/26/99 10:00
Initial pH of Leachant 5.440 — Final pH of Leachate 10.098
Cation Analysis No. T25-007 — Dilution Factor

25 Leachant Replacement Date and Time(d:hr:min) 11/2/99 9:55
Initial pH of Leachant 5.335 — Final pH of Leachate 10.194
Cation Analysis No. T26-007 — Dilution Factor

26 Leachant Replacement Date and Time(d:hr:min) 11/9/99 9:30
Initial pH of Leachant 5.624 — Final pH of Leachate 10.196
Cation Analysis No. T27-007 — Dilution Factor

27 Leachant Replacement Date and Time(d:hr:min) 11/16/99 7:00
Initial pH of Leachant 5.325 — Final pH of Leachate 10.265
Cation Analysis No. T28-007 — Dilution Factor

28 Leachant Replacement Date and Time(d:hr:min) 11/23/99 10:30
Initial pH of Leachant 5.967 — Final pH of Leachate 10.255
Cation Analysis No. T29-007 — Dilution Factor

29 Leachant Replacement Date and Time(d:hr:min) 11/30/99 10:00
Initial pH of Leachant 5.400 — Final pH of Leachate 10.100
Cation Analysis No. T30-007 — Dilution Factor

30 Leachant Replacement Date and Time(d:hr:min) 12/7/99 11:15
Initial pH of Leachant 5.490 — Final pH of Leachate 10.156
Cation Analysis No. T31-007 — Dilution Factor

31 Leachant Replacement Date and Time(d:hr:min) 12/14/99 10:00
Initial pH of Leachant 5.846 — Final pH of Leachate 10.057
Cation Analysis No. T32-007 — Dilution Factor

32 Leachant Replacement Date and Time(d:hr:min) 12/21/99 10:00
Initial pH of Leachant 6.597 — Final pH of Leachate 10.229
Cation Analysis No. T33-007 — Dilution Factor

33 Leachant Replacement Date and Time(d:hr:min) 12/28/99 11:15
Initial pH of Leachant 5.882 — Final pH of Leachate 10.203
Cation Analysis No. T34-007 — Dilution Factor

34 Leachant Replacement Date and Time(d:hr:min) 1/4/00 10:30
Initial pH of Leachant 5.802 — Final pH of Leachate 10.163
Cation Analysis No. T35-007 — Dilution Factor

35 Leachant Replacement Date and Time(d:hr:min) 1/11/00 10:30
Initial pH of Leachant 5.705 — Final pH of Leachate 10.168
Cation Analysis No. T36-007 — Dilution Factor

36 Leachant Replacement Date and Time(d:hr:min) 1/18/00 10:50
Initial pH of Leachant 5.795 — Final pH of Leachate 10.144
Cation Analysis No. T37-007 — Dilution Factor

1/20/00

007

37 Leachant Replacement Date and Time(d:hr:min) 1/25/00 10:45
Initial pH of Leachant 5.752 — Final pH of Leachate 10.173
Cation Analysis No. T38-007 — Dilution Factor

38 Leachant Replacement Date and Time(d:hr:min) 2/2/00 3 pm
Initial pH of Leachant 5.856 — Final pH of Leachate 10.245
Cation Analysis No. T39-007 — Dilution Factor

39 Leachant Replacement Date and Time(d:hr:min) 2/15/00 10:30
Initial pH of Leachant 5.488 — Final pH of Leachate 10.258
Cation Analysis No. T40-007 — Dilution Factor

40 Leachant Replacement Date and Time(d:hr:min) 2/29/00 2:30 pm
Initial pH of Leachant 5.310 — Final pH of Leachate 10.209
Cation Analysis No. T41-007 — Dilution Factor

41 Leachant Replacement Date and Time(d:hr:min) 3/14/00 11:00 am
Initial pH of Leachant 5.730 — Final pH of Leachate 10.174
Cation Analysis No. T42-007 — Dilution Factor

42 Leachant Replacement Date and Time(d:hr:min) 3/28/00 10:00 am
Initial pH of Leachant 4.652 — Final pH of Leachate 9.533
Cation Analysis No. T43-007 — Dilution Factor

43 Leachant Replacement Date and Time(d:hr:min) 4/11/00 2:00
Initial pH of Leachant 6.097 — Final pH of Leachate 10.048
Cation Analysis No. T44-007 — Dilution Factor

44 Leachant Replacement Date and Time(d:hr:min) 4/25/00 2:00
Initial pH of Leachant 5.870 — Final pH of Leachate 10.154
Cation Analysis No. T45-007 — Dilution Factor

45 Leachant Replacement Date and Time(d:hr:min) 5-9-00 10:30
Initial pH of Leachant 6.077 — Final pH of Leachate 10.011
Cation Analysis No. T46-007 — Dilution Factor

46 Leachant Replacement Date and Time(d:hr:min) 5/23/00 2:00 pm
Initial pH of Leachant 5.887 — Final pH of Leachate 9.891
Cation Analysis No. T47-007 — Dilution Factor

47 Leachant Replacement Date and Time(d:hr:min) 6/6/00 10:30
Initial pH of Leachant 5.895 — Final pH of Leachate 10.289
Cation Analysis No. T48-007 — Dilution Factor

6/6/00

48 Leachant Replacement Date and Time(d:hr:min) 6/20/00 1:00 pm
Initial pH of Leachant 5.910 — Final pH of Leachate 10.187
Cation Analysis No. T49-007 — Dilution Factor

49 Leachant Replacement Date and Time(d:hr:min) 7/5/00 8:30
Initial pH of Leachant 6.011 — Final pH of Leachate 10.296
Cation Analysis No. T50-007 — Dilution Factor

50 Leachant Replacement Date and Time(d:hr:min) 7/18/00 10:30
Initial pH of Leachant 6.052 — Final pH of Leachate 9.972
Cation Analysis No. T51-007 — Dilution Factor

8/11/00

LONG-TERM TEST DATA SHEET

Test ID SRSW-T3

Vessel ID No. 008 Batch Cleaning No. 7-21-99

Glass Sample ID SRS
Sample Weight (g) 2.99953
Sample Preparation Date 7-26-99

Type of Solution DI H_2O
Leachant Volume (ml) 30
Initial pH of Leachant 5.784

Weight of Empty Vessel (g) 126.64370
Weight of Vessel + Sample (g) 129.66625
2nd Weight of Sample (Difference of the last two items) (g) 3.02255
Total Weight of Vessel + Sample + Solution (g) 159.40955

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 7/27/99; 10:20

Final pH of Leachate 10.460
Cation Analysis No. T1-008 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 7/30/99; 9:50
Initial pH of Leachant 5.768 Final pH of Leachate 10.458
Cation Analysis No. T2-008 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 8/3/99; 9:15
Initial pH of Leachant 5.904 Final pH of Leachate 10.182
Cation Analysis No. T3-008 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 8/6/99; 10.05
Initial pH of Leachant 5.913 Final pH of Leachate 10.269
Cation Analysis No. T4-008 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 8/10/99; 10.25
Initial pH of Leachant 5.906 Final pH of Leachate ~~8.971~~ 9.953 MB 8/13/99
Cation Analysis No. T5-008 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 8/13/99; 10:15
Initial pH of Leachant 6.258 Final pH of Leachate 10:096
Cation Analysis No. T6-008 Dilution Factor

6 Leachant Replacement Date and Time(d:hr:min) 8/17/99; 10:12
Initial pH of Leachant 5.914 Final pH of Leachate 10.043
Cation Analysis No. T7-008 Dilution Factor

7 Leachant Replacement Date and Time(d:hr:min) 8/20/99; 8:50
Initial pH of Leachant 5.919 Final pH of Leachate 10.137
Cation Analysis No. T8-008 Dilution Factor

8 Leachant Replacement Date and Time(d:hr:min) 8/24/99; 9:00
Initial pH of Leachant 5.551 Final pH of Leachate 10.088
Cation Analysis No. T9-008 Dilution Factor

8/26/99

008

9 Leachant Replacement Date and Time(d:hr:min) 8/27/99; 8:45
Initial pH of Leachant 5.658 Final pH of Leachate 10.149
Cation Analysis No. T10-008 Dilution Factor

10 Leachant Replacement Date and Time(d:hr:min) 8/31/99; 9:30
Initial pH of Leachant 5.402 Final pH of Leachate 10.124
Cation Analysis No. T11-008 Dilution Factor

11 Leachant Replacement Date and Time(d:hr:min) 9/3/99; 9:30
Initial pH of Leachant 6.123 Final pH of Leachate 10.160
Cation Analysis No. T12-008 Dilution Factor

12 Leachant Replacement Date and Time(d:hr:min) 9/7/99; 9:00
Initial pH of Leachant 5.777 Final pH of Leachate 10.089
Cation Analysis No. T13-008 Dilution Factor

13 Leachant Replacement Date and Time(d:hr:min) 9/10/99; 10:00
Initial pH of Leachant 6.275 Final pH of Leachate 10.139
Cation Analysis No. T14-008 Dilution Factor

14 Leachant Replacement Date and Time(d:hr:min) 9/14/99; 9:15
Initial pH of Leachant 5.764 Final pH of Leachate 10.139
Cation Analysis No. T15-008 Dilution Factor

15 Leachant Replacement Date and Time(d:hr:min) 9/17/99; 9:00
Initial pH of Leachant 5.912 Final pH of Leachate 10.148
Cation Analysis No. T16-008 Dilution Factor

16 Leachant Replacement Date and Time(d:hr:min) 9/21/99; 10:00
Initial pH of Leachant 5.703 Final pH of Leachate 9.649
Cation Analysis No. T17-008 Dilution Factor

17 Leachant Replacement Date and Time(d:hr:min) 9/24/99; 10:30
Initial pH of Leachant 5.400 Final pH of Leachate 10.160
Cation Analysis No. T18-008 Dilution Factor

18 Leachant Replacement Date and Time(d:hr:min) 9/28/99; 9:30
Initial pH of Leachant 5.310 Final pH of Leachate 10.038
Cation Analysis No. T19-008 Dilution Factor

19 Leachant Replacement Date and Time(d:hr:min) 10/1/99; 9:30
Initial pH of Leachant 5.878 Final pH of Leachate 10.061
Cation Analysis No. T20-008 Dilution Factor

20 Leachant Replacement Date and Time(d:hr:min) 10/5/99; 9:30
Initial pH of Leachant 5.501 Final pH of Leachate 10.032
Cation Analysis No. T21-008 Dilution Factor

21 Leachant Replacement Date and Time(d:hr:min) 10/8/99; 9:30
Initial pH of Leachant 5.400 Final pH of Leachate 9.934
Cation Analysis No. T22-008 Dilution Factor

22 Leachant Replacement Date and Time(d:hr:min) 10-12-99 9:45
Initial pH of Leachant 5.623 Final pH of Leachate 10.104
Cation Analysis No. T23-008 Dilution Factor

10/14/99

008

23 Leachant Replacement Date and Time(d:hr:min) 10/15/99 9:45
Initial pH of Leachant 5.539 Final pH of Leachate 10.095
Cation Analysis No. T24-008 Dilution Factor

24 Leachant Replacement Date and Time(d:hr:min) 10/26/99 10:00
Initial pH of Leachant 5.440 Final pH of Leachate 10.040
Cation Analysis No. T25-008 Dilution Factor

25 Leachant Replacement Date and Time(d:hr:min) 11/2/99 9:55
Initial pH of Leachant 5.335 Final pH of Leachate 10.174
Cation Analysis No. T26-008 Dilution Factor

26 Leachant Replacement Date and Time(d:hr:min) 11/9/99 9:30
Initial pH of Leachant 5.624 Final pH of Leachate 10.101
Cation Analysis No. T27-008 Dilution Factor

27 Leachant Replacement Date and Time(d:hr:min) 11/16/99 1:00
Initial pH of Leachant 5.325 Final pH of Leachate 10.255
Cation Analysis No. T28-008 Dilution Factor

28 Leachant Replacement Date and Time(d:hr:min) 11/23/99 10:30
Initial pH of Leachant 5.967 Final pH of Leachate 10.235
Cation Analysis No. T29-008 Dilution Factor

29 Leachant Replacement Date and Time(d:hr:min) 11/30/99 10:00
Initial pH of Leachant 5.400 Final pH of Leachate 10.206
Cation Analysis No. T30-008 Dilution Factor

30 Leachant Replacement Date and Time(d:hr:min) 12/7/99 11:15
Initial pH of Leachant 5.490 Final pH of Leachate 10.172
Cation Analysis No. T31-008 Dilution Factor

31 Leachant Replacement Date and Time(d:hr:min) 12/14/99 10:00
Initial pH of Leachant 5.946 Final pH of Leachate 10.105
Cation Analysis No. T32-008 Dilution Factor

32 Leachant Replacement Date and Time(d:hr:min) 12/21/99 10:00
Initial pH of Leachant 6.597 Final pH of Leachate 10.209
Cation Analysis No. T33-008 Dilution Factor

33 Leachant Replacement Date and Time(d:hr:min) 12/28/99 11:15
Initial pH of Leachant 5.882 Final pH of Leachate 10.192
Cation Analysis No. T34-008 Dilution Factor

34 Leachant Replacement Date and Time(d:hr:min) 1/4/00 10:30
Initial pH of Leachant 5.802 Final pH of Leachate 10.163
Cation Analysis No. T35-008 Dilution Factor

35 Leachant Replacement Date and Time(d:hr:min) 1/11/00 10:30
Initial pH of Leachant 5.705 Final pH of Leachate 10.198
Cation Analysis No. T36-008 Dilution Factor

36 Leachant Replacement Date and Time(d:hr:min) 1/18/00 10:50
Initial pH of Leachant 5.795 Final pH of Leachate 10.191
Cation Analysis No. T37-008 Dilution Factor

1/20/00

008

37 Leachant Replacement Date and Time(d:hr:min) 1/25/00 10:45
Initial pH of Leachant 5.758 Final pH of Leachate 10.128
Cation Analysis No. T38-008 Dilution Factor

38 Leachant Replacement Date and Time(d:hr:min) 2/2/00 3pm
Initial pH of Leachant 5.856 Final pH of Leachate 10.183
Cation Analysis No. T39-008 Dilution Factor

39 Leachant Replacement Date and Time(d:hr:min) 2/15/00 10:30
Initial pH of Leachant 5.488 Final pH of Leachate 10.195
Cation Analysis No. T40-008 Dilution Factor

40 Leachant Replacement Date and Time(d:hr:min) 2/29/00 2:30pm
Initial pH of Leachant 5.310 Final pH of Leachate 10.027
Cation Analysis No. T41-008 Dilution Factor

41 Leachant Replacement Date and Time(d:hr:min) 3/14/00 11:00am
Initial pH of Leachant 5.730 Final pH of Leachate 10.210
Cation Analysis No. T42-008 Dilution Factor

42 Leachant Replacement Date and Time(d:hr:min) 3/28/00 10:00am
Initial pH of Leachant 4.652 Final pH of Leachate 10.127
Cation Analysis No. T43-008 Dilution Factor

43 Leachant Replacement Date and Time(d:hr:min) 4/11/00 2:00
Initial pH of Leachant 6.097 Final pH of Leachate 9.926
Cation Analysis No. T44-008 Dilution Factor

44 Leachant Replacement Date and Time(d:hr:min) 4/25/00 2:00
Initial pH of Leachant 5.878 Final pH of Leachate 10.077
Cation Analysis No. T45-008 Dilution Factor

45 Leachant Replacement Date and Time(d:hr:min) 5-9-00 10:30
Initial pH of Leachant 6.077 Final pH of Leachate 8.857
Cation Analysis No. T46-008 Dilution Factor

46 Leachant Replacement Date and Time(d:hr:min) 5/23/00 2:00pm
Initial pH of Leachant 5.887 Final pH of Leachate 9.713
Cation Analysis No. T47-008 Dilution Factor

47 Leachant Replacement Date and Time(d:hr:min) 6/6/00 10:30
Initial pH of Leachant 5.895 Final pH of Leachate 10.154
Cation Analysis No. T48-008 Dilution Factor

6/6/00

48 Leachant Replacement Date and Time(d:hr:min) 6/20/00 1:00pm
Initial pH of Leachant 5.910 Final pH of Leachate 8.851
Cation Analysis No. T49-008 Dilution Factor

49 Leachant Replacement Date and Time(d:hr:min) 7/5/00 8:30
Initial pH of Leachant 6.011 Final pH of Leachate 10.124
Cation Analysis No. T50-008 Dilution Factor

50 Leachant Replacement Date and Time(d:hr:min) 7/18/00 10:30
Initial pH of Leachant 6.052 Final pH of Leachate 10.088
Cation Analysis No. T51-008 Dilution Factor

8/11/00

LONG-TERM TEST DATA SHEET

Test ID WVNSW-T1

Vessel ID No. 009 Batch Cleaning No. 7-21-99

Glass Sample ID WVNS
Sample Weight (g) 2.99937
Sample Preparation Date 7-26-99

Type of Solution DI H_2O
Leachant Volume (ml) 30
Initial pH of Leachant 5.784

Weight of Empty Vessel (g) 126.18485
Weight of Vessel + Sample (g) 129.18370
2nd Weight of Sample (Difference of the last two items) (g) 2.99885
Total Weight of Vessel + Sample + Solution (g) 158.77560

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 7/27/99; 10:20

Final pH of Leachate 10.962
Cation Analysis No. T1-009 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 7/30/99; 9:50
Initial pH of Leachant 5.768 Final pH of Leachate 10.481
Cation Analysis No. T2-009 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 8/3/99; 9:15
Initial pH of Leachant 5.904 Final pH of Leachate 10.148
Cation Analysis No. T3-009 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 8/6/99; 10:05
Initial pH of Leachant 5.913 Final pH of Leachate 10.312
Cation Analysis No. T4-009 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 8/10/99; 10:25
Initial pH of Leachant 5.906 Final pH of Leachate 10.030
Cation Analysis No. T5-~~010~~ 009 MB Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 8/13/99; 10:15
Initial pH of Leachant 6.258 Final pH of Leachate 10.088
Cation Analysis No. T6-009 Dilution Factor

6 Leachant Replacement Date and Time(d:hr:min) 8/17/99; 10:12
Initial pH of Leachant 5.914 Final pH of Leachate 10.019
Cation Analysis No. T7-009 Dilution Factor

7 Leachant Replacement Date and Time(d:hr:min) 8/20/99; 8:50
Initial pH of Leachant 5.919 Final pH of Leachate 10.042
Cation Analysis No. T8-009 Dilution Factor

8 Leachant Replacement Date and Time(d:hr:min) 8/24/99, 9:00
Initial pH of Leachant 5.581 Final pH of Leachate 10.016
Cation Analysis No. T9-009 Dilution Factor

Zij Pan
8/24/99

009

9 Leachant Replacement Date and Time(d:hr:min) 8/27/99; 8:45
Initial pH of Leachant 5.658 Final pH of Leachate 10.017
Cation Analysis No. T10-009 Dilution Factor

10 Leachant Replacement Date and Time(d:hr:min) 8/31/99; 9:30
Initial pH of Leachant 5.402 Final pH of Leachate 10.008
Cation Analysis No. T11-009 Dilution Factor

11 Leachant Replacement Date and Time(d:hr:min) 9/3/99; 9:30
Initial pH of Leachant 6.123 Final pH of Leachate 9.994
Cation Analysis No. T12-009 Dilution Factor

12 Leachant Replacement Date and Time(d:hr:min) 9/7/99; 9:00
Initial pH of Leachant 5.777 Final pH of Leachate 9.931
Cation Analysis No. T13-009 Dilution Factor

13 Leachant Replacement Date and Time(d:hr:min) 9/10/99; 10:00
Initial pH of Leachant 6.275 Final pH of Leachate 9.909
Cation Analysis No. T14-009 Dilution Factor

14 Leachant Replacement Date and Time(d:hr:min) 9/14/99; 9:15
Initial pH of Leachant 5.764 Final pH of Leachate 9.934
Cation Analysis No. T15-009 Dilution Factor

15 Leachant Replacement Date and Time(d:hr:min) 9/17/99; 9:00
Initial pH of Leachant 5.912 Final pH of Leachate 9.870
Cation Analysis No. T16-009 Dilution Factor

16 Leachant Replacement Date and Time(d:hr:min) 9/21/99; 10:00
Initial pH of Leachant 5.703 Final pH of Leachate 9.339
Cation Analysis No. T17-009 Dilution Factor

17 Leachant Replacement Date and Time(d:hr:min) 9/24/99; 10:30
Initial pH of Leachant 5.400 Final pH of Leachate 9.877
Cation Analysis No. T18-009 Dilution Factor

18 Leachant Replacement Date and Time(d:hr:min) 9/24/99; 9:30
Initial pH of Leachant 5.310 Final pH of Leachate 9.748
Cation Analysis No. T19-009 Dilution Factor

19 Leachant Replacement Date and Time(d:hr:min) 10/1/99; 9:30
Initial pH of Leachant 5.878 Final pH of Leachate 9.703
Cation Analysis No. T20-009 Dilution Factor

20 Leachant Replacement Date and Time(d:hr:min) 10/5/99; 9:30
Initial pH of Leachant 5.501 Final pH of Leachate 9.442
Cation Analysis No. T21-009 Dilution Factor

21 Leachant Replacement Date and Time(d:hr:min) 10/8/99; 9:30
Initial pH of Leachant 5.408 Final pH of Leachate 9.645
Cation Analysis No. T22-009 Dilution Factor

22 Leachant Replacement Date and Time(d:hr:min) 10/12/99 9:45
Initial pH of Leachant 5.623 Final pH of Leachate 9.632
Cation Analysis No. T23-009 Dilution Factor

Zij Pan
12/14/99

009

23 Leachant Replacement Date and Time(d:hr:min) 10/15/99 9:45
Initial pH of Leachant 5.539 Final pH of Leachate 9.506
Cation Analysis No. T24-009 Dilution Factor

24 Leachant Replacement Date and Time(d:hr:min) 10/26/99 10:00
Initial pH of Leachant 5.440 Final pH of Leachate 9.589
Cation Analysis No. T25-009 Dilution Factor

25 Leachant Replacement Date and Time(d:hr:min) 11/2/99 9:55
Initial pH of Leachant 5.335 Final pH of Leachate 9.884
Cation Analysis No. T26-009 Dilution Factor

26 Leachant Replacement Date and Time(d:hr:min) 11/9/99 9:30
Initial pH of Leachant 5.624 Final pH of Leachate 9.695
Cation Analysis No. T27-009 Dilution Factor

27 Leachant Replacement Date and Time(d:hr:min) 11/16/99 1:00
Initial pH of Leachant 5.325 Final pH of Leachate 9.939
Cation Analysis No. T28-009 Dilution Factor

28 Leachant Replacement Date and Time(d:hr:min) 11/23/99 10:30
Initial pH of Leachant 5.967 Final pH of Leachate 9.955
Cation Analysis No. T29-009 Dilution Factor

29 Leachant Replacement Date and Time(d:hr:min) 11/30/99 10:00
Initial pH of Leachant 5.400 Final pH of Leachate 9.881
Cation Analysis No. T30-009 Dilution Factor

30 Leachant Replacement Date and Time(d:hr:min) 12/7/99 11:15
Initial pH of Leachant 5.490 Final pH of Leachate 9.641
Cation Analysis No. T31-009 Dilution Factor

31 Leachant Replacement Date and Time(d:hr:min) 12/14/99 10:00
Initial pH of Leachant 5.846 Final pH of Leachate 9.715
Cation Analysis No. T32-009 Dilution Factor

32 Leachant Replacement Date and Time(d:hr:min) 12/21/99 10:00
Initial pH of Leachant 6.597 Final pH of Leachate 9.901
Cation Analysis No. T33-009 Dilution Factor

33 Leachant Replacement Date and Time(d:hr:min) 12/28/99 11:15
Initial pH of Leachant 5.882 Final pH of Leachate 9.883
Cation Analysis No. T34-009 Dilution Factor

34 Leachant Replacement Date and Time(d:hr:min) 1/4/00 10:30
Initial pH of Leachant 5.803 Final pH of Leachate 9.803
Cation Analysis No. T35-009 Dilution Factor

35 Leachant Replacement Date and Time(d:hr:min) 1/11/00 10:30
Initial pH of Leachant 5.705 Final pH of Leachate 9.876
Cation Analysis No. T36-009 Dilution Factor

36 Leachant Replacement Date and Time(d:hr:min) 1/18/00 10:50
Initial pH of Leachant 5.795 Final pH of Leachate 9.832
Cation Analysis No. T37-009 Dilution Factor

MD Pan
1/20/00

009

37 Leachant Replacement Date and Time(d:hr:min) 1/25/00 10:45
Initial pH of Leachant 5.752 Final pH of Leachate 9.789
Cation Analysis No. T38-009 Dilution Factor

38 Leachant Replacement Date and Time(d:hr:min) 2/2/00 3pm
Initial pH of Leachant 5.756 Final pH of Leachate 9.709
Cation Analysis No. T39-009 Dilution Factor

39 Leachant Replacement Date and Time(d:hr:min) 2/15/00 10:30
Initial pH of Leachant 5.488 Final pH of Leachate 9.945
Cation Analysis No. T40-009 Dilution Factor

40 Leachant Replacement Date and Time(d:hr:min) 2/29/00 2:30pm
Initial pH of Leachant 5.310 Final pH of Leachate 9.645
Cation Analysis No. T41-009 Dilution Factor

41 Leachant Replacement Date and Time(d:hr:min) 3/14/00 11:00am
Initial pH of Leachant 5.730 Final pH of Leachate 9.918
Cation Analysis No. T42-009 Dilution Factor

42 Leachant Replacement Date and Time(d:hr:min) 3/28/00 10:00am
Initial pH of Leachant 4.652 Final pH of Leachate 9.166
Cation Analysis No. T43-009 Dilution Factor

43 Leachant Replacement Date and Time(d:hr:min) 4/11/00 2:00
Initial pH of Leachant 6.097 Final pH of Leachate 9.844
Cation Analysis No. T44-009 Dilution Factor

44 Leachant Replacement Date and Time(d:hr:min) 4/25/00 2:00
Initial pH of Leachant 5.870 Final pH of Leachate 10.010
Cation Analysis No. T45-009 Dilution Factor

45 Leachant Replacement Date and Time(d:hr:min) 5-9-00 10:30
Initial pH of Leachant 6.077 Final pH of Leachate 9.942
Cation Analysis No. T46-009 Dilution Factor

46 Leachant Replacement Date and Time(d:hr:min) 5/23/00 2:00pm
Initial pH of Leachant 5.887 Final pH of Leachate 9.807
Cation Analysis No. T47-009 Dilution Factor

47 Leachant Replacement Date and Time(d:hr:min) 6/6/00 10:30
Initial pH of Leachant 5.895 Final pH of Leachate 10.048
Cation Analysis No. T48-009 Dilution Factor

MD Pan
6/6/00

48 Leachant Replacement Date and Time(d:hr:min) 6/20/00 1:00pm
Initial pH of Leachant 5.910 Final pH of Leachate 9.033
Cation Analysis No. T49-009 Dilution Factor

49 Leachant Replacement Date and Time(d:hr:min) 7/5/00 8:30
Initial pH of Leachant 6.011 Final pH of Leachate 10.042
Cation Analysis No. T50-009 Dilution Factor

50 Leachant Replacement Date and Time(d:hr:min) 7/18/00 10:30
Initial pH of Leachant 6.052 Final pH of Leachate 9.890
Cation Analysis No. T51-009 Dilution Factor

MD Pan
8/11/00

LONG-TERM TEST DATA SHEET

Test ID WVNSW-T2

Vessel ID No. 010 Batch Cleaning No. 7-21-99

Glass Sample ID WVNS
Sample Weight (g) 3.00116
Sample Preparation Date 7-26-99

Type of Solution DI H_2O
Leachant Volume (ml) 30
Initial pH of Leachant 5.784

Weight of Empty Vessel (g) 126.22270
Weight of Vessel + Sample (g) 129.25800
2nd Weight of Sample (Difference of the last two items) (g) 3.03530
Total Weight of Vessel + Sample + Solution (g) 158.77895

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 7/27/99; 10:20

Final pH of Leachate 10.404
Cation Analysis No. T1-010 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 7/30/99; 9:50
Initial pH of Leachant 5.768 Final pH of Leachate 10.485
Cation Analysis No. T2-010 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 8/3/99; 9:15
Initial pH of Leachant 5.904 Final pH of Leachate 10.171
Cation Analysis No. T3-010 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 8/6/99; 10:05
Initial pH of Leachant 5.913 Final pH of Leachate 10.098
Cation Analysis No. T4-010 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 8/10/99; 10:25
Initial pH of Leachant 5.906 Final pH of Leachate 10.022
Cation Analysis No. T5-010 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 8/13/99; 10:15
Initial pH of Leachant 6.258 Final pH of Leachate 10.065
Cation Analysis No. T6-010 Dilution Factor

6 Leachant Replacement Date and Time(d:hr:min) 8/17/99; 10:12
Initial pH of Leachant 5.914 Final pH of Leachate 10.049
Cation Analysis No. T7-010 Dilution Factor

7 Leachant Replacement Date and Time(d:hr:min) 8/20/99; 8:50
Initial pH of Leachant 5.919 Final pH of Leachate 10.056
Cation Analysis No. T8-010 Dilution Factor

8 Leachant Replacement Date and Time(d:hr:min) 8/24/99; 9:00
Initial pH of Leachant 5.581 Final pH of Leachate 10.033
Cation Analysis No. T9-010 Dilution Factor

8/26/99

010

9 Leachant Replacement Date and Time(d:hr:min) 8/27/99; 8:45
Initial pH of Leachant 5.658 Final pH of Leachate 10.023
Cation Analysis No. T10-010 Dilution Factor

10 Leachant Replacement Date and Time(d:hr:min) 8/31/99; 9:30
Initial pH of Leachant 5.402 Final pH of Leachate 10.013
Cation Analysis No. T11-010 Dilution Factor

11 Leachant Replacement Date and Time(d:hr:min) 9/3/99; 9:30
Initial pH of Leachant 6.123 Final pH of Leachate 9.988
Cation Analysis No. T12-010 Dilution Factor

12 Leachant Replacement Date and Time(d:hr:min) 9/7/99; 9:00
Initial pH of Leachant 5.777 Final pH of Leachate 9.905
Cation Analysis No. T13-010 Dilution Factor

13 Leachant Replacement Date and Time(d:hr:min) 9/10/99; 10:00
Initial pH of Leachant 6.275 Final pH of Leachate 9.911
Cation Analysis No. T14-010 Dilution Factor

14 Leachant Replacement Date and Time(d:hr:min) 9/14/99; 9:15
Initial pH of Leachant 5.764 Final pH of Leachate 9.940
Cation Analysis No. T15-010 Dilution Factor

15 Leachant Replacement Date and Time(d:hr:min) 9/17/99; 9:00
Initial pH of Leachant 5.912 Final pH of Leachate 9.837
Cation Analysis No. T16-010 Dilution Factor

16 Leachant Replacement Date and Time(d:hr:min) 9/21/99; 10:00
Initial pH of Leachant 5.703 Final pH of Leachate 9.252
Cation Analysis No. T17-010 Dilution Factor

17 Leachant Replacement Date and Time(d:hr:min) 9/24/99; 10:30
Initial pH of Leachant 5.402 Final pH of Leachate 9.882
Cation Analysis No. T18-010 Dilution Factor

18 Leachant Replacement Date and Time(d:hr:min) 9/28/99; 9:30
Initial pH of Leachant 5.310 Final pH of Leachate 9.750
Cation Analysis No. T19-010 Dilution Factor

19 Leachant Replacement Date and Time(d:hr:min) 10/1/99; 9:30
Initial pH of Leachant 5.878 Final pH of Leachate 9.707
Cation Analysis No. T20-010 Dilution Factor

20 Leachant Replacement Date and Time(d:hr:min) 10/5/99; 9:30
Initial pH of Leachant 5.501 Final pH of Leachate 9.580
Cation Analysis No. T21-010 Dilution Factor

21 Leachant Replacement Date and Time(d:hr:min) 10/8/99; 9:30
Initial pH of Leachant 5.400 Final pH of Leachate 9.651
Cation Analysis No. T22-010 Dilution Factor

22 Leachant Replacement Date and Time(d:hr:min) 10/12/99 9:45
Initial pH of Leachant 5.623 Final pH of Leachate 9.475
Cation Analysis No. T23-010 Dilution Factor

10/14/99

010

23 Leachant Replacement Date and Time(d:hr:min) 10/15/99 9:45
Initial pH of Leachant 5.539
Final pH of Leachate 9.755
Cation Analysis No. T24-010
Dilution Factor

24 Leachant Replacement Date and Time(d:hr:min) 10/26/99 10:00
Initial pH of Leachant 5.440
Final pH of Leachate 9.648
Cation Analysis No. T25-010
Dilution Factor

25 Leachant Replacement Date and Time(d:hr:min) 11/2/99 9:55
Initial pH of Leachant 5.335
Final pH of Leachate 9.879
Cation Analysis No. T26-010
Dilution Factor

26 Leachant Replacement Date and Time(d:hr:min) 11/9/99 9:30
Initial pH of Leachant 5.624
Final pH of Leachate 9.895
Cation Analysis No. T27-010
Dilution Factor

27 Leachant Replacement Date and Time(d:hr:min) 11/16/99 1:00
Initial pH of Leachant 5.325
Final pH of Leachate 9.964
Cation Analysis No. T28-010
Dilution Factor

28 Leachant Replacement Date and Time(d:hr:min) 11/23/99 10:30
Initial pH of Leachant 5.967
Final pH of Leachate 9.948
Cation Analysis No. T29-010
Dilution Factor

29 Leachant Replacement Date and Time(d:hr:min) 11/30/99 10:00
Initial pH of Leachant 5.400
Final pH of Leachate 9.868
Cation Analysis No. T30-010
Dilution Factor

30 Leachant Replacement Date and Time(d:hr:min) 12/7/99 11:15
Initial pH of Leachant 5.490
Final pH of Leachate 9.166
Cation Analysis No. T31-010
Dilution Factor

31 Leachant Replacement Date and Time(d:hr:min) 12/14/99 10:00
Initial pH of Leachant 5.846
Final pH of Leachate 9.811
Cation Analysis No. T32-010
Dilution Factor

32 Leachant Replacement Date and Time(d:hr:min) 12/21/99 10:00
Initial pH of Leachant 6.597
Final pH of Leachate 9.859
Cation Analysis No. T33-010
Dilution Factor

33 Leachant Replacement Date and Time(d:hr:min) 12/28/99 11:15
Initial pH of Leachant 5.882
Final pH of Leachate 9.888
Cation Analysis No. T34-010
Dilution Factor

34 Leachant Replacement Date and Time(d:hr:min) 1/4/00 10:30
Initial pH of Leachant 5.802
Final pH of Leachate 9.851
Cation Analysis No. T35-010
Dilution Factor

35 Leachant Replacement Date and Time(d:hr:min) 1/11/00 10:30
Initial pH of Leachant 5.705
Final pH of Leachate 9.883
Cation Analysis No. T36-010
Dilution Factor

36 Leachant Replacement Date and Time(d:hr:min) 1/18/00 10:50
Initial pH of Leachant 5.795
Final pH of Leachate 9.822
Cation Analysis No. T37-010
Dilution Factor

Pa
1/20/00

010

37 Leachant Replacement Date and Time(d:hr:min) 1/25/00 10:45
Initial pH of Leachant 5.752
Final pH of Leachate 9.087
Cation Analysis No. T38-010
Dilution Factor

38 Leachant Replacement Date and Time(d:hr:min) 2/2/00 3pm
Initial pH of Leachant 5.856
Final pH of Leachate 9.812
Cation Analysis No. T39-010
Dilution Factor

39 Leachant Replacement Date and Time(d:hr:min) 2/15/00 10:30
Initial pH of Leachant 5.488
Final pH of Leachate 9.787
Cation Analysis No. T40-010
Dilution Factor

40 Leachant Replacement Date and Time(d:hr:min) 2/29/00 2:30pm
Initial pH of Leachant 5.310
Final pH of Leachate 9.909
Cation Analysis No. T41-010
Dilution Factor

41 Leachant Replacement Date and Time(d:hr:min) 3/14/00 11:00am
Initial pH of Leachant 5.730
Final pH of Leachate 9.825
Cation Analysis No. T42-010
Dilution Factor

42 Leachant Replacement Date and Time(d:hr:min) 3/28/00 10:00am
Initial pH of Leachant 4.652
Final pH of Leachate 9.720
Cation Analysis No. T43-010
Dilution Factor

43 Leachant Replacement Date and Time(d:hr:min) 4/11/00 2:00
Initial pH of Leachant 6.097
Final pH of Leachate 9.575
Cation Analysis No. T44-010
Dilution Factor

44 Leachant Replacement Date and Time(d:hr:min) 4/25/00 2:00
Initial pH of Leachant 5.870
Final pH of Leachate 10.005
Cation Analysis No. T45-010
Dilution Factor

45 Leachant Replacement Date and Time(d:hr:min) 5-9-00 10:30
Initial pH of Leachant 6.077
Final pH of Leachate 9.918
Cation Analysis No. T46-010
Dilution Factor

46 Leachant Replacement Date and Time(d:hr:min) 5/23/00 2:30pm
Initial pH of Leachant 5.887
Final pH of Leachate 9.604
Cation Analysis No. T47-010
Dilution Factor

47 Leachant Replacement Date and Time(d:hr:min) 6/6/00 10:30
Initial pH of Leachant 5.895
Final pH of Leachate 9.968
Cation Analysis No. T48-010
Dilution Factor

Pa
6/6/00

48 Leachant Replacement Date and Time(d:hr:min) 6/20/00 1:00pm
Initial pH of Leachant 5.910
Final pH of Leachate 9.420
Cation Analysis No. T49-010
Dilution Factor

49 Leachant Replacement Date and Time(d:hr:min) 7/5/00 8:30
Initial pH of Leachant 6.011
Final pH of Leachate 10.103
Cation Analysis No. T50-010
Dilution Factor

50 Leachant Replacement Date and Time(d:hr:min) 7/18/00 10:30
Initial pH of Leachant 6.052
Final pH of Leachate 8.910
Cation Analysis No. T51-010
Dilution Factor

Pa
8/11/00

LONG-TERM TEST DATA SHEET

Test ID WVNSW-T3

Vessel ID No. 011 Batch Cleaning No. 7-21-99

Glass Sample ID WVNS
Sample Weight (g) 3.00036
Sample Preparation Date 7-26-99

Type of Solution DI H_2O
Leachant Volume (ml) 30
Initial pH of Leachant 5.784

Weight of Empty Vessel (g) 128.10750
Weight of Vessel + Sample (g) 131.10855
2nd Weight of Sample (Difference of the last two items) (g) 3.00105
Total Weight of Vessel + Sample + Solution (g) 160.78280

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 7/27/99; 10:20

Final pH of Leachate 10.420
Cation Analysis No. T1-011 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 7/30/99; 9:50
Initial pH of Leachant 5.768 Final pH of Leachate 10.493
Cation Analysis No. T2-011 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 8/3/99; 9:15
Initial pH of Leachant 5.904 Final pH of Leachate 10.184
Cation Analysis No. T3-001 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 8/6/99; 10:05
Initial pH of Leachant 5.913 Final pH of Leachate 10.113
Cation Analysis No. T4-011 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 8/10/99; 10:25
Initial pH of Leachant 5.906 Final pH of Leachate 10.052
Cation Analysis No. ~~T5-00-10~~ 8/13/99 T5-011 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 8/13/99; 10:15
Initial pH of Leachant 6.258 Final pH of Leachate 10.088
Cation Analysis No. T6-011 Dilution Factor

6 Leachant Replacement Date and Time(d:hr:min) 8/17/99; 10:12
Initial pH of Leachant 5.916 Final pH of Leachate 10.038
Cation Analysis No. T7-011 Dilution Factor

7 Leachant Replacement Date and Time(d:hr:min) 8/20/99; 8:50
Initial pH of Leachant 5.919 Final pH of Leachate 10.045
Cation Analysis No. T8-011 Dilution Factor

8 Leachant Replacement Date and Time(d:hr:min) 8/24/99; 9:00
Initial pH of Leachant 5.551 Final pH of Leachate 10.026
Cation Analysis No. T9-011 Dilution Factor

8/26/99

011

9 Leachant Replacement Date and Time(d:hr:min) 8/27/99; 8:45
Initial pH of Leachant 5.658 Final pH of Leachate 9.979
Cation Analysis No. T10-011 Dilution Factor

10 Leachant Replacement Date and Time(d:hr:min) 8/31/99; 9:30
Initial pH of Leachant 5.402 Final pH of Leachate 10.012
Cation Analysis No. T11-011 Dilution Factor

11 Leachant Replacement Date and Time(d:hr:min) 9/3/99; 9:30
Initial pH of Leachant 6.123 Final pH of Leachate 9.917
Cation Analysis No. T12-011 Dilution Factor

12 Leachant Replacement Date and Time(d:hr:min) 9/7/99, 9:00
Initial pH of Leachant 5.777 Final pH of Leachate 9.917
Cation Analysis No. T13-011 Dilution Factor

13 Leachant Replacement Date and Time(d:hr:min) 9/10/99; 10.00
Initial pH of Leachant 6.275 Final pH of Leachate 9.887
Cation Analysis No. T14-011 Dilution Factor

14 Leachant Replacement Date and Time(d:hr:min) 9/14/99; 9:15
Initial pH of Leachant 5.764 Final pH of Leachate 9.946
Cation Analysis No. T15-011 Dilution Factor

15 Leachant Replacement Date and Time(d:hr:min) 9/17/99; 9:00
Initial pH of Leachant 5.912 Final pH of Leachate 9.897
Cation Analysis No. T16-011 Dilution Factor

16 Leachant Replacement Date and Time(d:hr:min) 9/21/99; 10:00
Initial pH of Leachant 5.703 Final pH of Leachate 9.197
Cation Analysis No. T17-011 Dilution Factor

17 Leachant Replacement Date and Time(d:hr:min) 9/24/99; 10:30
Initial pH of Leachant 5.460 Final pH of Leachate 9.888
Cation Analysis No. T18-011 Dilution Factor

18 Leachant Replacement Date and Time(d:hr:min) 9/28/99, 9:30
Initial pH of Leachant 5.310 Final pH of Leachate 9.764
Cation Analysis No. T19-011 Dilution Factor

19 Leachant Replacement Date and Time(d:hr:min) 10/1/99; 9:30
Initial pH of Leachant 5.878 Final pH of Leachate 9.174
Cation Analysis No. T20-011 Dilution Factor

20 Leachant Replacement Date and Time(d:hr:min) 10/5/99; 9:30
Initial pH of Leachant 5.501 Final pH of Leachate 8.322
Cation Analysis No. T21-011 Dilution Factor

21 Leachant Replacement Date and Time(d:hr:min) 10/8/99; 9:30
Initial pH of Leachant 5.408 Final pH of Leachate 9.693
Cation Analysis No. T22-011 Dilution Factor

22 Leachant Replacement Date and Time(d:hr:min) 10/12/99 9:45
Initial pH of Leachant 5.623 Final pH of Leachate 9.770
Cation Analysis No. T23-011 Dilution Factor

10/14/99

011

23 Leachant Replacement Date and Time(d:hr:min) 10/15/99 9:45
Initial pH of Leachant 5.539 Final pH of Leachate 9.701
Cation Analysis No. T24-011 Dilution Factor

24 Leachant Replacement Date and Time(d:hr:min) 10/26/99 10:00
Initial pH of Leachant 5.440 Final pH of Leachate 9.734
Cation Analysis No. T25-011 Dilution Factor

25 Leachant Replacement Date and Time(d:hr:min) 11/2/99 9:55
Initial pH of Leachant 5.335 Final pH of Leachate 9.881
Cation Analysis No. T26-011 Dilution Factor

26 Leachant Replacement Date and Time(d:hr:min) 11/9/99 9:30
Initial pH of Leachant 5.624 Final pH of Leachate 9.886
Cation Analysis No. T27-011 Dilution Factor

27 Leachant Replacement Date and Time(d:hr:min) 11/16/99 1:00
Initial pH of Leachant 5.325 Final pH of Leachate 9.943
Cation Analysis No. T28-011 Dilution Factor

28 Leachant Replacement Date and Time(d:hr:min) 11/23/99 10:30
Initial pH of Leachant 5.967 Final pH of Leachate 9.951
Cation Analysis No. T29-011 Dilution Factor

29 Leachant Replacement Date and Time(d:hr:min) 11/30/99 10:00
Initial pH of Leachant 5.400 Final pH of Leachate 9.789
Cation Analysis No. T30-011 Dilution Factor

30 Leachant Replacement Date and Time(d:hr:min) 12/7/99 11:15
Initial pH of Leachant 5.490 Final pH of Leachate 9.523
Cation Analysis No. T31-011 Dilution Factor

31 Leachant Replacement Date and Time(d:hr:min) 12/14/99 10:00
Initial pH of Leachant 5.346 Final pH of Leachate 9.828
Cation Analysis No. T32-011 Dilution Factor

32 Leachant Replacement Date and Time(d:hr:min) 12/21/99 10:00
Initial pH of Leachant 6.597 Final pH of Leachate 9.874
Cation Analysis No. T33-011 Dilution Factor

33 Leachant Replacement Date and Time(d:hr:min) 12/28/99 11:15
Initial pH of Leachant 5.882 Final pH of Leachate 9.868
Cation Analysis No. T34-011 Dilution Factor

34 Leachant Replacement Date and Time(d:hr:min) 1/4/00 10:30
Initial pH of Leachant 5.802 Final pH of Leachate 9.843
Cation Analysis No. T35-011 Dilution Factor

35 Leachant Replacement Date and Time(d:hr:min) 1/11/00 10:30
Initial pH of Leachant 5.705 Final pH of Leachate 9.462
Cation Analysis No. T36-011 Dilution Factor

36 Leachant Replacement Date and Time(d:hr:min) 1/18/00 10:50
Initial pH of Leachant 5.795 Final pH of Leachate 9.765
Cation Analysis No. T37-011 Dilution Factor

Pan 1/20/00

011

37 Leachant Replacement Date and Time(d:hr:min) 1/25/00 10:45
Initial pH of Leachant 5.752 Final pH of Leachate 9.651
Cation Analysis No. T38-011 Dilution Factor

38 Leachant Replacement Date and Time(d:hr:min) 2/2/00 3pm
Initial pH of Leachant 5.856 Final pH of Leachate 9.851
Cation Analysis No. T39-011 Dilution Factor

39 Leachant Replacement Date and Time(d:hr:min) 2/15/00 10:30
Initial pH of Leachant 5.488 Final pH of Leachate 9.771
Cation Analysis No. T40-011 Dilution Factor

40 Leachant Replacement Date and Time(d:hr:min) 2/29/00 2:30pm
Initial pH of Leachant 5.310 Final pH of Leachate 9.912
Cation Analysis No. T41-011 Dilution Factor

41 Leachant Replacement Date and Time(d:hr:min) 3/14/00 11:00am
Initial pH of Leachant 5.730 Final pH of Leachate 9.951
Cation Analysis No. T42-011 Dilution Factor

42 Leachant Replacement Date and Time(d:hr:min) 3/28/00 10:00am
Initial pH of Leachant 4.652 Final pH of Leachate 9.357
Cation Analysis No. T43-011 Dilution Factor

43 Leachant Replacement Date and Time(d:hr:min) 4/11/00 2:00
Initial pH of Leachant 6.097 Final pH of Leachate 9.893
Cation Analysis No. T44-011 Dilution Factor

44 Leachant Replacement Date and Time(d:hr:min) 4/25/00 2:00
Initial pH of Leachant 5.870 Final pH of Leachate 9.885
Cation Analysis No. T45-011 Dilution Factor

45 Leachant Replacement Date and Time(d:hr:min) 5-9-00 10:30
Initial pH of Leachant 6.077 Final pH of Leachate 8.587
Cation Analysis No. T46-011 Dilution Factor

46 Leachant Replacement Date and Time(d:hr:min) 5/23/00 2:00pm
Initial pH of Leachant 5.887 Final pH of Leachate 9.891
Cation Analysis No. T47-011 Dilution Factor

47 Leachant Replacement Date and Time(d:hr:min) 6/6/00 10:30
Initial pH of Leachant 5.895 Final pH of Leachate 10.089
Cation Analysis No. T48-011 Dilution Factor

Pan 6/6/00

48 Leachant Replacement Date and Time(d:hr:min) 6/20/00 1:00pm
Initial pH of Leachant 5.910 Final pH of Leachate 9.900
Cation Analysis No. T49-011 Dilution Factor

49 Leachant Replacement Date and Time(d:hr:min) 7/5/00 8:30
Initial pH of Leachant 6.011 Final pH of Leachate 9.957
Cation Analysis No. T50-011 Dilution Factor

50 Leachant Replacement Date and Time(d:hr:min) 7/18/00 10:30
Initial pH of Leachant 6.052 Final pH of Leachate 9.094
Cation Analysis No. T51-011 Dilution Factor

Pan 8/11/00

LONG-TERM TEST DATA SHEET

Test ID SRSHF2-T1

Vessel ID No. 012 Batch Cleaning No. 7-21-99

Glass Sample ID SRS
Sample Weight (g) 2.99963
Sample Preparation Date 7-29-99

Type of Solution 0.25 M $FeCl_2$
Leachant Volume (ml) 30
Initial pH of Leachant 2.473

Weight of Empty Vessel (g) 128.33200
Weight of Vessel + Sample (g) 131.32905
2nd Weight of Sample (Difference of the last two items) (g) 2.99705
Total Weight of Vessel + Sample + Solution (g) 161.98705

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 7/29/99 ; 2:00 PM

Final pH of Leachate 3.095
Cation Analysis No. T1-012 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 8/2/99 ; 10:40
Initial pH of Leachant 2.469 Final pH of Leachate 2.751
Cation Analysis No. T2-012 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 8/5/99 ; 9:10
Initial pH of Leachant 2.420 Final pH of Leachate 2.661
Cation Analysis No. T3-012 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 8/9/99 ; 9:30
Initial pH of Leachant 2.207 Final pH of Leachate 2.476
Cation Analysis No. T4-012 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 8/12/99 ; 10:00
Initial pH of Leachant 2.160 Final pH of Leachate 2.499
Cation Analysis No. T5-012 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 8/16/99 ; 9:55
Initial pH of Leachant 2.304 Final pH of Leachate 2.238
Cation Analysis No. T6-012 Dilution Factor

6 Leachant Replacement Date and Time(d:hr:min) 8/19/99 ; 9:40
Initial pH of Leachant 2.274 Final pH of Leachate 2.123
Cation Analysis No. T7-012 Dilution Factor

7 Leachant Replacement Date and Time(d:hr:min) 8/23/99 ; 9:30
Initial pH of Leachant 2.176 Final pH of Leachate 1.989
Cation Analysis No. T8-012 Dilution Factor

8 Leachant Replacement Date and Time(d:hr:min) 8/26/99 ; 8:50
Initial pH of Leachant 2.150 Final pH of Leachate 1.806
Cation Analysis No. T9-012 Dilution Factor

8/26/99

New Soln. 8-30-99

012

9 Leachant Replacement Date and Time(d:hr:min) 8/30/99 ; 9:50
Initial pH of Leachant 2.909 Final pH of Leachate 2.042
Cation Analysis No. T10-012 Dilution Factor

10 Leachant Replacement Date and Time(d:hr:min) 9/2/99 ; 9:30
Initial pH of Leachant 2.615 Final pH of Leachate 1.672
Cation Analysis No. T11-012 Dilution Factor

11 Leachant Replacement Date and Time(d:hr:min) 9/6/99 ; 12:55
Initial pH of Leachant 2.535 Final pH of Leachate 1.595
Cation Analysis No. T12-012 Dilution Factor

12 Leachant Replacement Date and Time(d:hr:min) 9/9/99 ; 9:15
Initial pH of Leachant 2.473 Final pH of Leachate 1.500
Cation Analysis No. T13-012 Dilution Factor

13 Leachant Replacement Date and Time(d:hr:min) 9/13/99 ; 8:45
Initial pH of Leachant 2.371 Final pH of Leachate 1.531
Cation Analysis No. T14-012 Dilution Factor

14 Leachant Replacement Date and Time(d:hr:min) 9/16/99 ; 9:00
Initial pH of Leachant 2.351 Final pH of Leachate 1.495
Cation Analysis No. T15-012 Dilution Factor

15 Leachant Replacement Date and Time(d:hr:min) 9/20/99 ; 9:00
Initial pH of Leachant 2.323 Final pH of Leachate 1.370
Cation Analysis No. T16-012 Dilution Factor

16 Leachant Replacement Date and Time(d:hr:min) 9/23/99 ; 9:00
Initial pH of Leachant 2.133 Final pH of Leachate 1.385
Cation Analysis No. T17-012 Dilution Factor

17 Leachant Replacement Date and Time(d:hr:min) 9/27/99 ; 9:20
Initial pH of Leachant 2.050 Final pH of Leachate 1.365
Cation Analysis No. T18-012 Dilution Factor

18 Leachant Replacement Date and Time(d:hr:min) 9/30/99 ; 9:45
Initial pH of Leachant 2.052 Final pH of Leachate 1.335
Cation Analysis No. T19-012 Dilution Factor

19 Leachant Replacement Date and Time(d:hr:min) 10/4/99 ; 9:20
Initial pH of Leachant 2.045 Final pH of Leachate 1.469 ph meter 10/21/99
Cation Analysis No. T20-012 Dilution Factor

20 Leachant Replacement Date and Time(d:hr:min) 10/8/99 ; 9:30
Initial pH of Leachant 2.058 Final pH of Leachate 1.444 ph meter 10/21/99
Cation Analysis No. T21-012 Dilution Factor

21 Leachant Replacement Date and Time(d:hr:min) 10/12/99 9:45
Initial pH of Leachant 2.162 Final pH of Leachate 1.454
Cation Analysis No. T22-012 Dilution Factor

22 Leachant Replacement Date and Time(d:hr:min) 10/15/99 ; 9:45
Initial pH of Leachant 2.27 Final pH of Leachate 1.435
Cation Analysis No. T23-012 Dilution Factor

10/15/99

012

23 Leachant Replacement Date and Time(d:hr:min) 10/19/99 9:15
Initial pH of Leachant 2.210 Final pH of Leachate 1.362
Cation Analysis No. T24-012 Dilution Factor

24 Leachant Replacement Date and Time(d:hr:min) 10/26/99 10:00
Initial pH of Leachant 2.189 Final pH of Leachate 1.190
Cation Analysis No. T25-012 Dilution Factor

25 Leachant Replacement Date and Time(d:hr:min) 11/2/99 9:55
Initial pH of Leachant 2.143 Final pH of Leachate 1.172
Cation Analysis No. T26-012 Dilution Factor

26 Leachant Replacement Date and Time(d:hr:min) 11/9/99 9:30
Initial pH of Leachant 2.128 Final pH of Leachate 1.197
Cation Analysis No. T27-012 Dilution Factor

27 Leachant Replacement Date and Time(d:hr:min) 11/16/99 1:00
Initial pH of Leachant 2.022 Final pH of Leachate 1.064
Cation Analysis No. T28-012 Dilution Factor

28 Leachant Replacement Date and Time(d:hr:min) 11/23/99 10:30
Initial pH of Leachant 2.040 Final pH of Leachate 1.009
Cation Analysis No. T29-012 Dilution Factor

29 Leachant Replacement Date and Time(d:hr:min) 11/30/99 10:00
Initial pH of Leachant 1.968 Final pH of Leachate 1.366
Cation Analysis No. T30-012 Dilution Factor

30 Leachant Replacement Date and Time(d:hr:min) 12/7/99 11:15
Initial pH of Leachant 2.361 Final pH of Leachate 1.116
Cation Analysis No. T31-012 Dilution Factor

31 Leachant Replacement Date and Time(d:hr:min) 12/14/99 10:00
Initial pH of Leachant 2.239 Final pH of Leachate 1.158
Cation Analysis No. T32-012 Dilution Factor

32 Leachant Replacement Date and Time(d:hr:min) 12/21/99 10:00
Initial pH of Leachant 2.146 Final pH of Leachate 1.124
Cation Analysis No. T33-012 Dilution Factor

33 Leachant Replacement Date and Time(d:hr:min) 12/28/99 11:15
Initial pH of Leachant 2.203 Final pH of Leachate 1.073
Cation Analysis No. T34-012 Dilution Factor

34 Leachant Replacement Date and Time(d:hr:min) 1/4/00 10:30
Initial pH of Leachant 2.089 Final pH of Leachate 1.081
Cation Analysis No. T35-012 Dilution Factor

35 Leachant Replacement Date and Time(d:hr:min) 1/11/00 10:30
Initial pH of Leachant 2.066 Final pH of Leachate 1.095
Cation Analysis No. T36-012 Dilution Factor

36 Leachant Replacement Date and Time(d:hr:min) 1/18/00 10:50
Initial pH of Leachant 2.036 Final pH of Leachate 1.054
Cation Analysis No. T37-012 Dilution Factor

M. Pa
1/18/00

012

37 Leachant Replacement Date and Time(d:hr:min) 1/25/00 10:45
Initial pH of Leachant 1.961 Final pH of Leachate 1.028
Cation Analysis No. T38-012 Dilution Factor

38 Leachant Replacement Date and Time(d:hr:min) 2/2/00 3pm
Initial pH of Leachant 1.838 Final pH of Leachate 1.085
Cation Analysis No. T39-012 Dilution Factor

39 Leachant Replacement Date and Time(d:hr:min) 2/15/00 10:30
Initial pH of Leachant 1.831 Final pH of Leachate 0.915
Cation Analysis No. T40-012 Dilution Factor

40 Leachant Replacement Date and Time(d:hr:min) 2/29/00 2:30pm
Initial pH of Leachant 2.479 Final pH of Leachate 1.116
Cation Analysis No. T41-012 Dilution Factor

41 Leachant Replacement Date and Time(d:hr:min) 3/14/00 11:00am
Initial pH of Leachant 2.315 Final pH of Leachate 0.969
Cation Analysis No. T42-012 Dilution Factor

42 Leachant Replacement Date and Time(d:hr:min) 3/28/00 10:00am
Initial pH of Leachant 2.114 Final pH of Leachate 1.119
Cation Analysis No. T43-012 Dilution Factor

43 Leachant Replacement Date and Time(d:hr:min) 4/11/00 2:00 pm
Initial pH of Leachant 1.961 Final pH of Leachate 0.977
Cation Analysis No. T44-012 Dilution Factor

44 Leachant Replacement Date and Time(d:hr:min) 4/25/00 2:00 pm
Initial pH of Leachant 2.030 Final pH of Leachate 0.965
Cation Analysis No. T45-012 Dilution Factor

45 Leachant Replacement Date and Time(d:hr:min) 5-9-00 10:30
Initial pH of Leachant 2.013 Final pH of Leachate 1.039
Cation Analysis No. T46-012 Dilution Factor

46 Leachant Replacement Date and Time(d:hr:min) 5/23/00 2:00pm
Initial pH of Leachant 1.915 Final pH of Leachate 0.948
Cation Analysis No. T47-012 Dilution Factor

47 Leachant Replacement Date and Time(d:hr:min) 6/6/00 10:20
Initial pH of Leachant 1.922 Final pH of Leachate 0.921
Cation Analysis No. T48-012 Dilution Factor

M. Pa
6/6/00

48 Leachant Replacement Date and Time(d:hr:min) 6/20/00 1:00pm
Initial pH of Leachant 1.920 Final pH of Leachate 0.894
Cation Analysis No. T49-012 Dilution Factor

49 Leachant Replacement Date and Time(d:hr:min) 7/5/00 8:30
Initial pH of Leachant 1.850 Final pH of Leachate 0.890
Cation Analysis No. T50-012 Dilution Factor

50 Leachant Replacement Date and Time(d:hr:min) 7/18/00 10:30
Initial pH of Leachant 1.772 Final pH of Leachate 0.934
Cation Analysis No. T51-012 Dilution Factor

M. Pa
8/11/00

LONG-TERM TEST DATA SHEET

Test ID SRSHF2-T2

Vessel ID No. 013 Batch Cleaning No. 7-21-99

Glass Sample ID SRS
Sample Weight (g) 3.00100
Sample Preparation Date 7-29-99

Type of Solution 0.25 M FeCl2
Leachant Volume (ml) 30
Initial pH of Leachant 2.473

Weight of Empty Vessel (g) 126.94830
Weight of Vessel + Sample (g) 129.94030
2nd Weight of Sample (Difference of the last two items) (g) 2.9920
Total Weight of Vessel + Sample + Solution (g) 160.42125

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 7/29/99; 2:00 PM

Final pH of Leachate 2.614
Cation Analysis No. T1-013 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 8/2/99; 10:40
Initial pH of Leachant 2.469 Final pH of Leachate 2.586
Cation Analysis No. T2-013 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 8/5/99; 9:10
Initial pH of Leachant 2.420 Final pH of Leachate 2.701
Cation Analysis No. T3-013 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 8/9/99; 9:30
Initial pH of Leachant 2.207 Final pH of Leachate 2.488
Cation Analysis No. T4-013 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 8/12/99; 10:00
Initial pH of Leachant 2.160 Final pH of Leachate 2.627
Cation Analysis No. T5-013 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 8/16/99; 9:55
Initial pH of Leachant 2.304 Final pH of Leachate 2.320
Cation Analysis No. T6-013 Dilution Factor

6 Leachant Replacement Date and Time(d:hr:min) 8/19/99; 9:40
Initial pH of Leachant 2.274 Final pH of Leachate 2.276
Cation Analysis No. T7-013 Dilution Factor

7 Leachant Replacement Date and Time(d:hr:min) 8/23/99; 9:30
Initial pH of Leachant 2.176 Final pH of Leachate 2.206
Cation Analysis No. T8-013 Dilution Factor

8 Leachant Replacement Date and Time(d:hr:min) 8/26/99; 8:50
Initial pH of Leachant 2.185 Final pH of Leachate 2.081
Cation Analysis No. T9-013 Dilution Factor

8/26/99

013

9 Leachant Replacement Date and Time(d:hr:min) 8/30/99; 9:50
Initial pH of Leachant 2.909 Final pH of Leachate 2.300
Cation Analysis No. T10-013 Dilution Factor

10 Leachant Replacement Date and Time(d:hr:min) 9/2/99; 9:30
Initial pH of Leachant 2.615 Final pH of Leachate 1.849
Cation Analysis No. T11-013 Dilution Factor

11 Leachant Replacement Date and Time(d:hr:min) 9/6/99; 12:55
Initial pH of Leachant 2.535 Final pH of Leachate 1.701
Cation Analysis No. T12-013 Dilution Factor

12 Leachant Replacement Date and Time(d:hr:min) 9/9/99; 9:15
Initial pH of Leachant 2.423 Final pH of Leachate 1.551
Cation Analysis No. T13-013 Dilution Factor

13 Leachant Replacement Date and Time(d:hr:min) 9/13/99; 8:45
Initial pH of Leachant 2.371 Final pH of Leachate 1.553
Cation Analysis No. T14-013 Dilution Factor

14 Leachant Replacement Date and Time(d:hr:min) 9/16/99; 9:00
Initial pH of Leachant 2.351 Final pH of Leachate 1.503
Cation Analysis No. T15-013 Dilution Factor

15 Leachant Replacement Date and Time(d:hr:min) 9/20/99; 9:00
Initial pH of Leachant 2.323 Final pH of Leachate 1.360
Cation Analysis No. T16-013 Dilution Factor

16 Leachant Replacement Date and Time(d:hr:min) 9/23/99; 9:00
Initial pH of Leachant 2.133 Final pH of Leachate 1.373
Cation Analysis No. T17-013 Dilution Factor

17 Leachant Replacement Date and Time(d:hr:min) 9/27/99; 9:15
Initial pH of Leachant 2.050 Final pH of Leachate 1.351
Cation Analysis No. T18-013 Dilution Factor

18 Leachant Replacement Date and Time(d:hr:min) 9/30/99; 9:45
Initial pH of Leachant 2.052 Final pH of Leachate 1.333
Cation Analysis No. T19-013 Dilution Factor

19 Leachant Replacement Date and Time(d:hr:min) 10/4/99; 9:00
Initial pH of Leachant 2.045 Final pH of Leachate 1.440
Cation Analysis No. T20-013 Dilution Factor

20 Leachant Replacement Date and Time(d:hr:min) 10/8/99; 9:30
Initial pH of Leachant 2.058 Final pH of Leachate 1.426
Cation Analysis No. T21-013 Dilution Factor

21 Leachant Replacement Date and Time(d:hr:min) 10/12/99; 9:45
Initial pH of Leachant 2.162 Final pH of Leachate 1.429
Cation Analysis No. T22-013 Dilution Factor

22 Leachant Replacement Date and Time(d:hr:min) 10/15/99; 9:45
Initial pH of Leachant 2.227 Final pH of Leachate 1.413
Cation Analysis No. T23-013 Dilution Factor

10/15/99

013

23 Leachant Replacement Date and Time(d:hr:min) 10/19/99 9:15
Initial pH of Leachant 2.210 Final pH of Leachate 1.348
Cation Analysis No. T24-013 Dilution Factor

24 Leachant Replacement Date and Time(d:hr:min) 10/26/99 10:00
Initial pH of Leachant 2.189 Final pH of Leachate 1.195
Cation Analysis No. T25-013 Dilution Factor

25 Leachant Replacement Date and Time(d:hr:min) 11/2/99 9:55
Initial pH of Leachant 2.143 Final pH of Leachate 1.188
Cation Analysis No. T26-013 Dilution Factor

26 Leachant Replacement Date and Time(d:hr:min) 11/9/99 9:30
Initial pH of Leachant 2.128 Final pH of Leachate 1.222
Cation Analysis No. T27-013 Dilution Factor

27 Leachant Replacement Date and Time(d:hr:min) 11/16/99 1:00
Initial pH of Leachant 2.022 Final pH of Leachate 1.082
Cation Analysis No. T28-013 Dilution Factor

28 Leachant Replacement Date and Time(d:hr:min) 11/23/99 10:30
Initial pH of Leachant 2.040 Final pH of Leachate 1.014
Cation Analysis No. T29-013 Dilution Factor

29 Leachant Replacement Date and Time(d:hr:min) 11/30/99 10:00
Initial pH of Leachant 1.968 Final pH of Leachate 1.131
Cation Analysis No. T30-013 Dilution Factor

30 Leachant Replacement Date and Time(d:hr:min) 12/7/99 11:15
Initial pH of Leachant 2.361 Final pH of Leachate 1.129
Cation Analysis No. T31-013 Dilution Factor

31 Leachant Replacement Date and Time(d:hr:min) 12/14/99 10:00
Initial pH of Leachant 2.239 Final pH of Leachate 1.165
Cation Analysis No. T32-013 Dilution Factor

32 Leachant Replacement Date and Time(d:hr:min) 12/21/99 10:00
Initial pH of Leachant 2.146 Final pH of Leachate 1.139
Cation Analysis No. T33-013 Dilution Factor

33 Leachant Replacement Date and Time(d:hr:min) 12/28/99 11:15
Initial pH of Leachant 2.203 Final pH of Leachate 1.063
Cation Analysis No. T34-013 Dilution Factor

34 Leachant Replacement Date and Time(d:hr:min) 1/4/00 10:30
Initial pH of Leachant 2.089 Final pH of Leachate 1.081
Cation Analysis No. T35-013 Dilution Factor

35 Leachant Replacement Date and Time(d:hr:min) 1/11/00 10:30
Initial pH of Leachant 2.066 Final pH of Leachate 1.102
Cation Analysis No. T36-013 Dilution Factor

36 Leachant Replacement Date and Time(d:hr:min) 1/18/00 10:50
Initial pH of Leachant 2.036 Final pH of Leachate 1.018
Cation Analysis No. T37-013 Dilution Factor

1/18/00

013

37 Leachant Replacement Date and Time(d:hr:min) 1/25/00 10:45
Initial pH of Leachant 1.961 Final pH of Leachate 1.402
Cation Analysis No. T38-013 Dilution Factor

38 Leachant Replacement Date and Time(d:hr:min) 2/2/00 3pm
Initial pH of Leachant 1.838 Final pH of Leachate 0.965
Cation Analysis No. T39-013 Dilution Factor

39 Leachant Replacement Date and Time(d:hr:min) 2/15/00 10:30
Initial pH of Leachant 1.831 Final pH of Leachate 0.933
Cation Analysis No. T40-013 Dilution Factor

40 Leachant Replacement Date and Time(d:hr:min) 2/29/00 2:30
Initial pH of Leachant 2.479 Final pH of Leachate 0.988
Cation Analysis No. T41-013 Dilution Factor

41 Leachant Replacement Date and Time(d:hr:min) 3/14/00 11:00am
Initial pH of Leachant 2.315 Final pH of Leachate 0.968
Cation Analysis No. T42-013 Dilution Factor

42 Leachant Replacement Date and Time(d:hr:min) 3/28/00 10:00am
Initial pH of Leachant 2.114 Final pH of Leachate 1.052
Cation Analysis No. T43-013 Dilution Factor

43 Leachant Replacement Date and Time(d:hr:min) 4/11/00 2:00
Initial pH of Leachant 1.961 Final pH of Leachate 0.974
Cation Analysis No. T44-013 Dilution Factor

44 Leachant Replacement Date and Time(d:hr:min) 4/25/00 2:00
Initial pH of Leachant 2.030 Final pH of Leachate 0.941
Cation Analysis No. T45-013 Dilution Factor

45 Leachant Replacement Date and Time(d:hr:min) 5/9/00 10:30
Initial pH of Leachant 2.013 Final pH of Leachate 0.996
Cation Analysis No. T46-013 Dilution Factor

46 Leachant Replacement Date and Time(d:hr:min) 5/23/00 2:00pm
Initial pH of Leachant 1.915 Final pH of Leachate 0.942
Cation Analysis No. T47-013 Dilution Factor

47 Leachant Replacement Date and Time(d:hr:min) 6/6/00 10:30
Initial pH of Leachant 1.922 Final pH of Leachate 0.917
Cation Analysis No. T48-013 Dilution Factor

6/6/00

48 Leachant Replacement Date and Time(d:hr:min) 6/20/00 1:00pm
Initial pH of Leachant 1.920 Final pH of Leachate 0.895
Cation Analysis No. T49-013 Dilution Factor

49 Leachant Replacement Date and Time(d:hr:min) 7/5/00 8:30
Initial pH of Leachant 1.850 Final pH of Leachate 0.886
Cation Analysis No. T50-013 Dilution Factor

50 Leachant Replacement Date and Time(d:hr:min) 7/18/00 10:30
Initial pH of Leachant 1.772 Final pH of Leachate 0.924
Cation Analysis No. T51-013 Dilution Factor

8/11/00

LONG-TERM TEST DATA SHEET

Test ID SRSHF2-T3

Vessel ID No. 014 Batch Cleaning No. 7-21-99

Glass Sample ID SRS
Sample Weight (g) 3.00125
Sample Preparation Date 07-29-99

Type of Solution 0.25 M $FeCl_2$
Leachant Volume (ml) 30
Initial pH of Leachant 2.473

Weight of Empty Vessel (g) 125.74650
Weight of Vessel + Sample (g) 128.73860
2nd Weight of Sample (Difference of the last two items) (g) 2.9921
Total Weight of Vessel + Sample + Solution (g) 159.21860

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 7/29/99; 2:00PM

Final pH of Leachate 2.610
Cation Analysis No. T1-014 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 8/2/99; 10:40
Initial pH of Leachant 2.469 Final pH of Leachate 2.656
Cation Analysis No. T2-014 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 8/5/99; 9:10
Initial pH of Leachant 2.420 Final pH of Leachate 2.765
Cation Analysis No. T3-014 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 8/9/99; 9:30
Initial pH of Leachant 2.207 Final pH of Leachate 2.511
Cation Analysis No. T4-014 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 8/12/99; 10:00
Initial pH of Leachant 2.160 Final pH of Leachate 2.591
Cation Analysis No. T5-014 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 8/16/99; 9:55
Initial pH of Leachant 2.304 Final pH of Leachate 2.273
Cation Analysis No. T6-014 Dilution Factor

6 Leachant Replacement Date and Time(d:hr:min) 8/19/99; 9:40
Initial pH of Leachant 2.274 Final pH of Leachate 2.247
Cation Analysis No. T7-014 Dilution Factor

7 Leachant Replacement Date and Time(d:hr:min) 8/23/99; 9:30
Initial pH of Leachant 2.176 Final pH of Leachate 2.147
Cation Analysis No. T8-014 Dilution Factor

8 Leachant Replacement Date and Time(d:hr:min) 8/26/99; 8:52
Initial pH of Leachant 2.150 Final pH of Leachate 2.016
Cation Analysis No. T9-014 Dilution Factor

8/26/99

014

9 Leachant Replacement Date and Time(d:hr:min) 8/30/99; 9:50
Initial pH of Leachant 2.109 Final pH of Leachate 2.174
Cation Analysis No. T10-014 Dilution Factor

10 Leachant Replacement Date and Time(d:hr:min) 9/2/99; 9:30
Initial pH of Leachant 2.615 Final pH of Leachate 1.782
Cation Analysis No. T11-014 Dilution Factor

11 Leachant Replacement Date and Time(d:hr:min) 9/6/99; 12:55
Initial pH of Leachant 2.535 Final pH of Leachate 1.664
Cation Analysis No. T12-014 Dilution Factor

12 Leachant Replacement Date and Time(d:hr:min) 9/9/99; 9:15
Initial pH of Leachant 2.473 Final pH of Leachate 1.548
Cation Analysis No. T13-014 Dilution Factor

13 Leachant Replacement Date and Time(d:hr:min) 9/13/99; 8:45
Initial pH of Leachant 2.371 Final pH of Leachate 1.561
Cation Analysis No. T14-014 Dilution Factor

14 Leachant Replacement Date and Time(d:hr:min) 9/16/99; 9:00
Initial pH of Leachant 2.351 Final pH of Leachate 1.493
Cation Analysis No. T15-014 Dilution Factor

15 Leachant Replacement Date and Time(d:hr:min) 9/20/99; 9:00
Initial pH of Leachant 2.323 Final pH of Leachate 1.350
Cation Analysis No. T16-014 Dilution Factor

16 Leachant Replacement Date and Time(d:hr:min) 9/23/99, 9:00
Initial pH of Leachant 2.133 Final pH of Leachate 1.362
Cation Analysis No. T17-014 Dilution Factor

17 Leachant Replacement Date and Time(d:hr:min) 9/27/99; 9:15
Initial pH of Leachant 2.050 Final pH of Leachate 1.332
Cation Analysis No. T18-014 Dilution Factor

18 Leachant Replacement Date and Time(d:hr:min) 9/30/99, 9:45
Initial pH of Leachant 2.052 Final pH of Leachate 1.325
Cation Analysis No. T19-014 Dilution Factor

19 Leachant Replacement Date and Time(d:hr:min) 10/4/99; 9:00
Initial pH of Leachant 2.045 Final pH of Leachate 1.420
Cation Analysis No. T20-014 Dilution Factor

20 Leachant Replacement Date and Time(d:hr:min) 10/8/99 9:30
Initial pH of Leachant 2.058 Final pH of Leachate 1.400
Cation Analysis No. T21-014 Dilution Factor

21 Leachant Replacement Date and Time(d:hr:min) 10/12/99; 9:45
Initial pH of Leachant 2.162 Final pH of Leachate 1.402
Cation Analysis No. T22-014 Dilution Factor

22 Leachant Replacement Date and Time(d:hr:min) 10/15/99, 9:45
Initial pH of Leachant 2.227 Final pH of Leachate 1.404
Cation Analysis No. T23-014 Dilution Factor

10/15/99

014

23 Leachant Replacement Date and Time(d:hr:min) 10/19/99 9:15
Initial pH of Leachant 2.210 Final pH of Leachate 1.321
Cation Analysis No. T24-014 Dilution Factor

24 Leachant Replacement Date and Time(d:hr:min) 10/26/99 10:00
Initial pH of Leachant 2.189 Final pH of Leachate 1.175
Cation Analysis No. T25-014 Dilution Factor

25 Leachant Replacement Date and Time(d:hr:min) 11/2/99 9:55
Initial pH of Leachant 2.143 Final pH of Leachate 1.170
Cation Analysis No. T26-014 Dilution Factor

26 Leachant Replacement Date and Time(d:hr:min) 11/9/99 9:30
Initial pH of Leachant 2.128 Final pH of Leachate 1.191
Cation Analysis No. T27-014 Dilution Factor

27 Leachant Replacement Date and Time(d:hr:min) 11/16/99 1:00
Initial pH of Leachant 2.022 Final pH of Leachate 1.067
Cation Analysis No. T28-014 Dilution Factor

28 Leachant Replacement Date and Time(d:hr:min) 11/23/99 10:30
Initial pH of Leachant 2.040 Final pH of Leachate 1.005
Cation Analysis No. T29-014 Dilution Factor

29 Leachant Replacement Date and Time(d:hr:min) 11/30/99 10:00
Initial pH of Leachant 1.968 Final pH of Leachate 1.145
Cation Analysis No. T30-014 Dilution Factor

30 Leachant Replacement Date and Time(d:hr:min) 12/7/99 11:15
Initial pH of Leachant 2.361 Final pH of Leachate 1.107
Cation Analysis No. T31-014 Dilution Factor

31 Leachant Replacement Date and Time(d:hr:min) 12/14/99 10:00
Initial pH of Leachant 2.237 Final pH of Leachate 1.146
Cation Analysis No. T32-014 Dilution Factor

32 Leachant Replacement Date and Time(d:hr:min) 12/21/99 10:00
Initial pH of Leachant 2.146 Final pH of Leachate 1.137
Cation Analysis No. T33-014 Dilution Factor

33 Leachant Replacement Date and Time(d:hr:min) 12/28/99 11:15
Initial pH of Leachant 2.203 Final pH of Leachate 1.052
Cation Analysis No. T34-014 Dilution Factor

34 Leachant Replacement Date and Time(d:hr:min) 1/4/00 10:30
Initial pH of Leachant 2.089 Final pH of Leachate 1.075
Cation Analysis No. T35-014 Dilution Factor

35 Leachant Replacement Date and Time(d:hr:min) 1/11/00 10:30
Initial pH of Leachant 2.066 Final pH of Leachate 1.068
Cation Analysis No. T36-014 Dilution Factor

36 Leachant Replacement Date and Time(d:hr:min) 1/18/00 10:50
Initial pH of Leachant 2.036 Final pH of Leachate 1.000
Cation Analysis No. T37-014 Dilution Factor

1/18/00

014

37 Leachant Replacement Date and Time(d:hr:min) 1/25/00 10:45
Initial pH of Leachant 1.961 Final pH of Leachate 1.126
Cation Analysis No. T38-014 Dilution Factor

38 Leachant Replacement Date and Time(d:hr:min) 2/2/00 3 pm
Initial pH of Leachant 1.838 Final pH of Leachate 1.007
Cation Analysis No. T39-014 Dilution Factor

39 Leachant Replacement Date and Time(d:hr:min) 2/15/00 10:30
Initial pH of Leachant 1.831 Final pH of Leachate 0.909
Cation Analysis No. T40-014 Dilution Factor

40 Leachant Replacement Date and Time(d:hr:min) 2/22/00 2:30 pm
Initial pH of Leachant 2.479 Final pH of Leachate 0.989
Cation Analysis No. T41-014 Dilution Factor

41 Leachant Replacement Date and Time(d:hr:min) 3/14/00 11:00 am
Initial pH of Leachant 2.315 Final pH of Leachate 0.961
Cation Analysis No. T42-014 Dilution Factor

42 Leachant Replacement Date and Time(d:hr:min) 3/28/00 10:00 am
Initial pH of Leachant 2.114 Final pH of Leachate 1.113
Cation Analysis No. T43-014 Dilution Factor

43 Leachant Replacement Date and Time(d:hr:min) 4/11/00 2:00
Initial pH of Leachant 1.961 Final pH of Leachate 0.944
Cation Analysis No. T44-014 Dilution Factor

44 Leachant Replacement Date and Time(d:hr:min) 4/25/00 2:00
Initial pH of Leachant 2.030 Final pH of Leachate 0.924
Cation Analysis No. T45-014 Dilution Factor

45 Leachant Replacement Date and Time(d:hr:min) 5/9/00 10:30
Initial pH of Leachant 2.013 Final pH of Leachate 0.983
Cation Analysis No. T46-014 Dilution Factor

46 Leachant Replacement Date and Time(d:hr:min) 5/23/00 2:00
Initial pH of Leachant 1.915 Final pH of Leachate 0.926
Cation Analysis No. T47-014 Dilution Factor

47 Leachant Replacement Date and Time(d:hr:min) 6/6/00 10:30
Initial pH of Leachant 1.922 Final pH of Leachate 0.905
Cation Analysis No. T48-014 Dilution Factor

6/6/00

48 Leachant Replacement Date and Time(d:hr:min) 6/20/00 1:00pm
Initial pH of Leachant 1.920 Final pH of Leachate 0.867
Cation Analysis No. T49-014 Dilution Factor

49 Leachant Replacement Date and Time(d:hr:min) 7/5/00 8:30
Initial pH of Leachant 1.850 Final pH of Leachate 0.872
Cation Analysis No. T50-014 Dilution Factor

50 Leachant Replacement Date and Time(d:hr:min) 7/18/00 10:30
Initial pH of Leachant 1.772 Final pH of Leachate 0.921
Cation Analysis No. T51-014 Dilution Factor

8/11/00

LONG-TERM TEST DATA SHEET

Test ID WVNS HF2-T1

Vessel ID No. 015 Batch Cleaning No. 7-21-99

Glass Sample ID WVNS
Sample Weight (g) 3.00028
Sample Preparation Date 07-29-99

Type of Solution 0.25 M $FeCl_2$
Leachant Volume (ml) 30
Initial pH of Leachant 2.473

Weight of Empty Vessel (g) 126.84145
Weight of Vessel + Sample (g) 129.84139
2nd Weight of Sample (Difference of the last two items) (g) 2.99994
Total Weight of Vessel + Sample + Solution (g) 160.34140

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 7/29/99; 2:00 PM

Final pH of Leachate 3.178
Cation Analysis No. T1-015 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 8/2/99; 10:40
Initial pH of Leachant 2.469 Final pH of Leachate 3.126
Cation Analysis No. T2-015 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 8/5/99; 9:10
Initial pH of Leachant 2.420 Final pH of Leachate 2.949
Cation Analysis No. T3-015 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 8/9/99; 9:30
Initial pH of Leachant 2.207 Final pH of Leachate 2.631
Cation Analysis No. T4-015 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 8/12/99; 10:00
Initial pH of Leachant 2.160 Final pH of Leachate 2.802
Cation Analysis No. T5-015 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 8/16/99; 9:55
Initial pH of Leachant 2.304 Final pH of Leachate 2.390
Cation Analysis No. T6-015 Dilution Factor

6 Leachant Replacement Date and Time(d:hr:min) 8/19/99; 9:40
Initial pH of Leachant 2.274 Final pH of Leachate 2.332
Cation Analysis No. T7-015 Dilution Factor

7 Leachant Replacement Date and Time(d:hr:min) 8/23/99; 9:30
Initial pH of Leachant 2.176 Final pH of Leachate 2.251
Cation Analysis No. T8-015 Dilution Factor

8 Leachant Replacement Date and Time(d:hr:min) 8/26/99; 8:50
Initial pH of Leachant 2.180 Final pH of Leachate 2.229
Cation Analysis No. T9-015 Dilution Factor

8/26/99

015

9 Leachant Replacement Date and Time(d:hr:min) 8/30/99; 9:50
Initial pH of Leachant 2.409 Final pH of Leachate 2.503
Cation Analysis No. T10-015 Dilution Factor

10 Leachant Replacement Date and Time(d:hr:min) 9/2/99; 9:30
Initial pH of Leachant 2.615 Final pH of Leachate 2.253
Cation Analysis No. T11-015 Dilution Factor

11 Leachant Replacement Date and Time(d:hr:min) 9/6/99; 12:55
Initial pH of Leachant 2.535 Final pH of Leachate 2.168
Cation Analysis No. T12-015 Dilution Factor

12 Leachant Replacement Date and Time(d:hr:min) 9/9/99; 9:15
Initial pH of Leachant 2.473 Final pH of Leachate 2.074
Cation Analysis No. T13-015 Dilution Factor

13 Leachant Replacement Date and Time(d:hr:min) 9/13/99; 8:45
Initial pH of Leachant 2.371 Final pH of Leachate 2.090
Cation Analysis No. T14-015 Dilution Factor

14 Leachant Replacement Date and Time(d:hr:min) 9/16/99; 9:00
Initial pH of Leachant 2.351 Final pH of Leachate ~~2.034~~ 2.014 9/17/99
Cation Analysis No. T15-015 Dilution Factor

15 Leachant Replacement Date and Time(d:hr:min) 9/20/99; 9:00
Initial pH of Leachant 2.323 Final pH of Leachate 1.817
Cation Analysis No. T16-015 Dilution Factor

16 Leachant Replacement Date and Time(d:hr:min) 9/23/99; 9:00
Initial pH of Leachant 2.133 Final pH of Leachate 1.735
Cation Analysis No. T17-015 Dilution Factor

17 Leachant Replacement Date and Time(d:hr:min) 9/27/99; 9:15
Initial pH of Leachant 2.050 Final pH of Leachate 1.567
Cation Analysis No. T18-015 Dilution Factor

18 Leachant Replacement Date and Time(d:hr:min) 9/30/99; 9:45
Initial pH of Leachant 2.052 Final pH of Leachate 1.468
Cation Analysis No. T19-015 Dilution Factor

19 Leachant Replacement Date and Time(d:hr:min) 10/4/99; 9:00
Initial pH of Leachant 2.045 Final pH of Leachate 1.581
Cation Analysis No. T20-015 Dilution Factor

20 Leachant Replacement Date and Time(d:hr:min) 10/8/99; 9:30
Initial pH of Leachant 2.058 Final pH of Leachate 1.532
Cation Analysis No. T21-015 Dilution Factor

21 Leachant Replacement Date and Time(d:hr:min) 10/12/99 9:45
Initial pH of Leachant 2.162 Final pH of Leachate 1.531
Cation Analysis No. T22-015 Dilution Factor

22 Leachant Replacement Date and Time(d:hr:min) 10/15/99; 9:45
Initial pH of Leachant 2.227 Final pH of Leachate 1.535
Cation Analysis No. T23-015 Dilution Factor

10/15/99

015

23 Leachant Replacement Date and Time(d:hr:min) 10/19/99 9:15
Initial pH of Leachant 2.210 Final pH of Leachate 1.416
Cation Analysis No. T24-015 Dilution Factor

24 Leachant Replacement Date and Time(d:hr:min) 10/26/99 10:00
Initial pH of Leachant 2.189 Final pH of Leachate 1.284
Cation Analysis No. T25-015 Dilution Factor

25 Leachant Replacement Date and Time(d:hr:min) 11/2/99 9:55
Initial pH of Leachant 2.143 Final pH of Leachate 1.269
Cation Analysis No. T26-015 Dilution Factor

26 Leachant Replacement Date and Time(d:hr:min) 11/9/99 9:30
Initial pH of Leachant 2.128 Final pH of Leachate 1.292
Cation Analysis No. T27-015 Dilution Factor

27 Leachant Replacement Date and Time(d:hr:min) 11/16/99 1:00
Initial pH of Leachant 2.022 Final pH of Leachate 1.205
Cation Analysis No. T28-015 Dilution Factor

28 Leachant Replacement Date and Time(d:hr:min) 11/23/99 10:30
Initial pH of Leachant 2.040 Final pH of Leachate 1.138
Cation Analysis No. T29-015 Dilution Factor

29 Leachant Replacement Date and Time(d:hr:min) 11/30/99 10:00
Initial pH of Leachant 1.968 Final pH of Leachate 1.163
Cation Analysis No. T30-015 Dilution Factor

30 Leachant Replacement Date and Time(d:hr:min) 12/7/99 11:15
Initial pH of Leachant 2.361 Final pH of Leachate 1.222
Cation Analysis No. T31-015 Dilution Factor

31 Leachant Replacement Date and Time(d:hr:min) 12/14/99 10:00
Initial pH of Leachant 2.239 Final pH of Leachate 1.248
Cation Analysis No. T32-015 Dilution Factor

32 Leachant Replacement Date and Time(d:hr:min) 12/21/99 10:00
Initial pH of Leachant 2.146 Final pH of Leachate 1.222
Cation Analysis No. T33-015 Dilution Factor

33 Leachant Replacement Date and Time(d:hr:min) 12/28/99 11:15
Initial pH of Leachant 2.203 Final pH of Leachate 1.172
Cation Analysis No. T34-015 Dilution Factor

34 Leachant Replacement Date and Time(d:hr:min) 1/4/00 10:30
Initial pH of Leachant 2.089 Final pH of Leachate 1.177
Cation Analysis No. T35-015 Dilution Factor

35 Leachant Replacement Date and Time(d:hr:min) 1/11/00 10:30
Initial pH of Leachant 2.066 Final pH of Leachate 1.149
Cation Analysis No. T36-015 Dilution Factor

36 Leachant Replacement Date and Time(d:hr:min) 1/18/00 10:50
Initial pH of Leachant 2.036 Final pH of Leachate 1.109
Cation Analysis No. T37-015 Dilution Factor

1/18/00

015

37 Leachant Replacement Date and Time(d:hr:min) 1/25/00 10:45
Initial pH of Leachant 1.961 Final pH of Leachate 1.192
Cation Analysis No. T38-015 Dilution Factor

38 Leachant Replacement Date and Time(d:hr:min) 2/2/00 3pm
Initial pH of Leachant 1.838 Final pH of Leachate 1.132
Cation Analysis No. T39-015 Dilution Factor

39 Leachant Replacement Date and Time(d:hr:min) 2/15/00 10:30
Initial pH of Leachant 1.831 Final pH of Leachate 1.023
Cation Analysis No. T40-015 Dilution Factor

40 Leachant Replacement Date and Time(d:hr:min) 2/29/00 2:30pm
Initial pH of Leachant 2.479 Final pH of Leachate 1.129
Cation Analysis No. T41-015 Dilution Factor

41 Leachant Replacement Date and Time(d:hr:min) 3/14/00 11:00am
Initial pH of Leachant 2.315 Final pH of Leachate 1.084
Cation Analysis No. T42-015 Dilution Factor

42 Leachant Replacement Date and Time(d:hr:min) 3/28/00 10:00am
Initial pH of Leachant 2.114 Final pH of Leachate 1.094
Cation Analysis No. T43-015 Dilution Factor

43 Leachant Replacement Date and Time(d:hr:min) 4/11/00 2:00
Initial pH of Leachant 1.961 Final pH of Leachate 1.054
Cation Analysis No. T44-015 Dilution Factor

44 Leachant Replacement Date and Time(d:hr:min) 4/25/00 2:00
Initial pH of Leachant 2.030 Final pH of Leachate 1.012
Cation Analysis No. T45-015 Dilution Factor

45 Leachant Replacement Date and Time(d:hr:min) 5/9/00 10:30
Initial pH of Leachant 2.013 Final pH of Leachate 1.101
Cation Analysis No. T46-015 Dilution Factor

46 Leachant Replacement Date and Time(d:hr:min) 5/23/00 2:00pm
Initial pH of Leachant 1.915 Final pH of Leachate 1.047
Cation Analysis No. T47-015 Dilution Factor

47 Leachant Replacement Date and Time(d:hr:min) 6/6/00 10:30
Initial pH of Leachant 1.922 Final pH of Leachate 0.990
Cation Analysis No. T48-015 Dilution Factor

6/6/00

48 Leachant Replacement Date and Time(d:hr:min) 6/20/00 1:00pm
Initial pH of Leachant 1.920 Final pH of Leachate 1.022
Cation Analysis No. T49-015 Dilution Factor

49 Leachant Replacement Date and Time(d:hr:min) 7/5/00 8:30
Initial pH of Leachant 1.850 Final pH of Leachate 0.964
Cation Analysis No. T50-015 Dilution Factor

50 Leachant Replacement Date and Time(d:hr:min) 7/18/00 10:30
Initial pH of Leachant 1.772 Final pH of Leachate 1.066
Cation Analysis No. T51-015 Dilution Factor

8/11/00

LONG-TERM TEST DATA SHEET

Test ID WVNSHF2-T2

Vessel ID No. 016 Batch Cleaning No. 7-21-99

Glass Sample ID WVNS
Sample Weight (g) 3.00016
Sample Preparation Date 07-29-99

Type of Solution 0.25 M $FeCl_2$
Leachant Volume (ml) 30
Initial pH of Leachant 2.473

Weight of Empty Vessel (g) 126.42020
Weight of Vessel + Sample (g) 129.43655
2nd Weight of Sample (Difference of the last two items) (g) 3.01635
Total Weight of Vessel + Sample + Solution (g) 159.88205

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 7/29/99; 2:00 PM

Final pH of Leachate 3.076
Cation Analysis No. T1-016 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 8/2/99; 10:40
Initial pH of Leachant 2.469 Final pH of Leachate 3.094
Cation Analysis No. T2-016 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 8/5/99; 9:10
Initial pH of Leachant 2.420 Final pH of Leachate 2.913
Cation Analysis No. T3-016 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 8/9/99; 9:30
Initial pH of Leachant 2.207 Final pH of Leachate 2.609
Cation Analysis No. T4-016 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 8/12/99; 10:00
Initial pH of Leachant 2.160 Final pH of Leachate 2.757
Cation Analysis No. T5-016 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 8/16/99; 9:55
Initial pH of Leachant 2.304 Final pH of Leachate 2.448
Cation Analysis No. T6-016 Dilution Factor

6 Leachant Replacement Date and Time(d:hr:min) 8/19/99; 9:40
Initial pH of Leachant 2.274 Final pH of Leachate 2.363
Cation Analysis No. T7-016 Dilution Factor

7 Leachant Replacement Date and Time(d:hr:min) 8/23/99; 9:30
Initial pH of Leachant 2.176 Final pH of Leachate 2.274
Cation Analysis No. T8-016 Dilution Factor

8 Leachant Replacement Date and Time(d:hr:min) 8/26/99; 8:50
Initial pH of Leachant 2.180 Final pH of Leachate 2.243
Cation Analysis No. T9-016 Dilution Factor

8/26/99

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9 Leachant Replacement Date and Time(d:hr:min) 8/30/99; 9:50
Initial pH of Leachant 2.905 Final pH of Leachate 2.491
Cation Analysis No. T10-016 Dilution Factor

10 Leachant Replacement Date and Time(d:hr:min) 9/2/99; 9:30
Initial pH of Leachant 2.615 Final pH of Leachate 2.237
Cation Analysis No. T11-016 Dilution Factor

11 Leachant Replacement Date and Time(d:hr:min) 9/6/99; 12:55
Initial pH of Leachant 2.535 Final pH of Leachate 2.179
Cation Analysis No. T12-016 Dilution Factor

12 Leachant Replacement Date and Time(d:hr:min) 9/9/99; 9:15
Initial pH of Leachant 2.473 Final pH of Leachate 2.082
Cation Analysis No. T13-016 Dilution Factor

13 Leachant Replacement Date and Time(d:hr:min) 9/13/99; 8:45
Initial pH of Leachant 2.371 Final pH of Leachate 2.086
Cation Analysis No. T14-016 Dilution Factor

14 Leachant Replacement Date and Time(d:hr:min) 9/16/99; 9:00
Initial pH of Leachant 2.351 Final pH of Leachate 2.022
Cation Analysis No. T15-016 Dilution Factor

15 Leachant Replacement Date and Time(d:hr:min) 9/20/99; 9:00
Initial pH of Leachant 2.323 Final pH of Leachate 1.823
Cation Analysis No. T16-016 Dilution Factor

16 Leachant Replacement Date and Time(d:hr:min) 9/23/99; 9:00
Initial pH of Leachant 2.133 Final pH of Leachate 1.739
Cation Analysis No. T17-016 Dilution Factor

17 Leachant Replacement Date and Time(d:hr:min) 9/27/99; 9:15
Initial pH of Leachant 2.050 Final pH of Leachate 1.577
Cation Analysis No. T18-016 Dilution Factor

18 Leachant Replacement Date and Time(d:hr:min) 9/30/99; 9:45
Initial pH of Leachant 2.052 Final pH of Leachate 1.475
Cation Analysis No. T19-016 Dilution Factor

19 Leachant Replacement Date and Time(d:hr:min) 10/4/99; 9:00
Initial pH of Leachant 2.045 Final pH of Leachate 1.589
Cation Analysis No. T20-016 Dilution Factor

20 Leachant Replacement Date and Time(d:hr:min) 10/8/99; 9:30
Initial pH of Leachant 2.058 Final pH of Leachate 1.533
Cation Analysis No. T21-016 Dilution Factor

21 Leachant Replacement Date and Time(d:hr:min) 10/12/99 9:45
Initial pH of Leachant 2.162 Final pH of Leachate 1.526
Cation Analysis No. T22-016 Dilution Factor

22 Leachant Replacement Date and Time(d:hr:min) 10/15/99; 9:45
Initial pH of Leachant 2.227 Final pH of Leachate 1.525
Cation Analysis No. T23-016 Dilution Factor

10/15/99

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23 Leachant Replacement Date and Time(d:hr:min) 10/19/99 9:15
Initial pH of Leachant 2.210 Final pH of Leachate 1.411
Cation Analysis No. T24-016 Dilution Factor

24 Leachant Replacement Date and Time(d:hr:min) 10/26/99 10:00
Initial pH of Leachant 2.189 Final pH of Leachate 1.282
Cation Analysis No. T25-016 Dilution Factor

25 Leachant Replacement Date and Time(d:hr:min) 11/2/99 9:55
Initial pH of Leachant 2.143 Final pH of Leachate 1.276
Cation Analysis No. T26-016 Dilution Factor

26 Leachant Replacement Date and Time(d:hr:min) 11/9/99 9:30
Initial pH of Leachant 2.128 Final pH of Leachate 1.290
Cation Analysis No. T27-016 Dilution Factor

27 Leachant Replacement Date and Time(d:hr:min) 11/16/99 1:00
Initial pH of Leachant 2.022 Final pH of Leachate 1.190
Cation Analysis No. T28-016 Dilution Factor

28 Leachant Replacement Date and Time(d:hr:min) 11/23/99 10:30
Initial pH of Leachant 2.040 Final pH of Leachate 1.133
Cation Analysis No. T29-016 Dilution Factor

29 Leachant Replacement Date and Time(d:hr:min) 11/30/99 10:00
Initial pH of Leachant 1.968 Final pH of Leachate 1.150
Cation Analysis No. T30-016 Dilution Factor

30 Leachant Replacement Date and Time(d:hr:min) 12/7/99 11:15
Initial pH of Leachant 2.361 Final pH of Leachate 1.224
Cation Analysis No. T31-016 Dilution Factor

31 Leachant Replacement Date and Time(d:hr:min) 12/14/99 10:00
Initial pH of Leachant 2.239 Final pH of Leachate 1.176
Cation Analysis No. T32-016 Dilution Factor

32 Leachant Replacement Date and Time(d:hr:min) 12/21/99 10:00
Initial pH of Leachant 2.146 Final pH of Leachate 1.210
Cation Analysis No. T33-016 Dilution Factor

33 Leachant Replacement Date and Time(d:hr:min) 12/28/99 11:15
Initial pH of Leachant 2.203 Final pH of Leachate 1.171
Cation Analysis No. T34-016 Dilution Factor

34 Leachant Replacement Date and Time(d:hr:min) 1/4/00 10:30
Initial pH of Leachant 2.089 Final pH of Leachate 1.179
Cation Analysis No. T35-016 Dilution Factor

35 Leachant Replacement Date and Time(d:hr:min) 1/11/00 10:30
Initial pH of Leachant 2.066 Final pH of Leachate 1.149
Cation Analysis No. T36-016 Dilution Factor

36 Leachant Replacement Date and Time(d:hr:min) 1/18/00 10:50
Initial pH of Leachant 2.036 Final pH of Leachate 1.219
Cation Analysis No. T37-016 Dilution Factor

1/18/00

016

37 Leachant Replacement Date and Time(d:hr:min) 1/25/00 10:45
Initial pH of Leachant 1.961 Final pH of Leachate 1.153
Cation Analysis No. T38-016 Dilution Factor

38 Leachant Replacement Date and Time(d:hr:min) 2/2/00 3pm
Initial pH of Leachant 1.838 Final pH of Leachate 1.099
Cation Analysis No. T39-016 Dilution Factor

39 Leachant Replacement Date and Time(d:hr:min) 2/15/00 10:30
Initial pH of Leachant 1.831 Final pH of Leachate 1.025
Cation Analysis No. T40-016 Dilution Factor

40 Leachant Replacement Date and Time(d:hr:min) 2/29/00 2:30pm
Initial pH of Leachant 2.479 Final pH of Leachate 1.043
Cation Analysis No. T41-016 Dilution Factor

41 Leachant Replacement Date and Time(d:hr:min) 3/14/00 11:00am
Initial pH of Leachant 2.315 Final pH of Leachate 1.085
Cation Analysis No. T42-016 Dilution Factor

42 Leachant Replacement Date and Time(d:hr:min) 3/28/00 10:00am
Initial pH of Leachant 2.114 Final pH of Leachate 1.104
Cation Analysis No. T43-016 Dilution Factor

43 Leachant Replacement Date and Time(d:hr:min) 4/11/00 2:00
Initial pH of Leachant 1.961 Final pH of Leachate 1.063
Cation Analysis No. T44-016 Dilution Factor

44 Leachant Replacement Date and Time(d:hr:min) 4/25/00 2:00
Initial pH of Leachant 2.030 Final pH of Leachate 1.025
Cation Analysis No. T45-016 Dilution Factor

45 Leachant Replacement Date and Time(d:hr:min) 5/9/00 10:30
Initial pH of Leachant 2.013 Final pH of Leachate 1.134
Cation Analysis No. T46-016 Dilution Factor

46 Leachant Replacement Date and Time(d:hr:min) 5/23/00 2:00pm
Initial pH of Leachant 1.915 Final pH of Leachate 1.056
Cation Analysis No. T47-016 Dilution Factor

47 Leachant Replacement Date and Time(d:hr:min) 6/6/00 10:30
Initial pH of Leachant 1.922 Final pH of Leachate 0.992
Cation Analysis No. T48-016 Dilution Factor

6/6/00

48 Leachant Replacement Date and Time(d:hr:min) 6/20/00 1:00pm
Initial pH of Leachant 1.920 Final pH of Leachate 1.020
Cation Analysis No. T49-016 Dilution Factor

49 Leachant Replacement Date and Time(d:hr:min) 7/5/00 8:30
Initial pH of Leachant 1.850 Final pH of Leachate 0.977
Cation Analysis No. T50-016 Dilution Factor

50 Leachant Replacement Date and Time(d:hr:min) 7/18/00 10:30
Initial pH of Leachant 1.772 Final pH of Leachate 1.064
Cation Analysis No. T51-016 Dilution Factor

8/11/00

LONG-TERM TEST DATA SHEET

Test ID WVNSHF2-T3

Vessel ID No. 017 Batch Cleaning No. 7-21-99

Glass Sample ID WVNS
Sample Weight (g) 3.00051
Sample Preparation Date 07-29-99

Type of Solution 0.25 M $FeCl_2$
Leachant Volume (ml) 30
Initial pH of Leachant 2.473

Weight of Empty Vessel (g) 127.07820
Weight of Vessel + Sample (g) 130.09305
2nd Weight of Sample (Difference of the last two items) (g) 3.01485
Total Weight of Vessel + Sample + Solution (g) 160.56910

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 7/29/99; 2:00 PM

Final pH of Leachate 3.220
Cation Analysis No. T1-017 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 8/2/99; 10:40
Initial pH of Leachant 2.469 Final pH of Leachate 3.112
Cation Analysis No. T2-017 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 8/5/99; 9:10
Initial pH of Leachant 2.420 Final pH of Leachate 2.849
Cation Analysis No. T3-017 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 8/9/99; 9:30
Initial pH of Leachant 2.207 Final pH of Leachate 2.579
Cation Analysis No. T4-017 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 8/12/99; 10:00
Initial pH of Leachant 2.160 Final pH of Leachate 2.823
Cation Analysis No. T5-017 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 8/16/99; 9:55
Initial pH of Leachant 2.304 Final pH of Leachate 2.385
Cation Analysis No. T6-017 Dilution Factor

6 Leachant Replacement Date and Time(d:hr:min) 8/19/99; 9:40
Initial pH of Leachant 2.274 Final pH of Leachate 2.335
Cation Analysis No. T7-017 Dilution Factor

7 Leachant Replacement Date and Time(d:hr:min) 8/23/99, 9:30
Initial pH of Leachant 2.176 Final pH of Leachate 2.230
Cation Analysis No. T8-017 Dilution Factor

8 Leachant Replacement Date and Time(d:hr:min) 8/26/99; 8:50
Initial pH of Leachant 2.180 Final pH of Leachate 2.203
Cation Analysis No. T9-017 Dilution Factor

8/26/99

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9 Leachant Replacement Date and Time(d:hr:min) 8/30/99; 9:50
Initial pH of Leachant 2.909 Final pH of Leachate 2.464
Cation Analysis No. T10-017 Dilution Factor

10 Leachant Replacement Date and Time(d:hr:min) 9/2/99; 9:30
Initial pH of Leachant 2.615 Final pH of Leachate 2.219
Cation Analysis No. T11-017 Dilution Factor

11 Leachant Replacement Date and Time(d:hr:min) 9/6/99; 12:55
Initial pH of Leachant 2.535 Final pH of Leachate 2.175
Cation Analysis No. T12-017 Dilution Factor

12 Leachant Replacement Date and Time(d:hr:min) 9/9/99; 9:15
Initial pH of Leachant 2.473 Final pH of Leachate 2.066
Cation Analysis No. T13-017 Dilution Factor

13 Leachant Replacement Date and Time(d:hr:min) 9/13/99; 8:45
Initial pH of Leachant 2.371 Final pH of Leachate 2.070
Cation Analysis No. T14-017 Dilution Factor

14 Leachant Replacement Date and Time(d:hr:min) 9/16/99; 9:00
Initial pH of Leachant 2.351 Final pH of Leachate 2.015
Cation Analysis No. T15-017 Dilution Factor

15 Leachant Replacement Date and Time(d:hr:min) 9/20/99; 9:00
Initial pH of Leachant 2.323 Final pH of Leachate 1.793
Cation Analysis No. T16-017 Dilution Factor

16 Leachant Replacement Date and Time(d:hr:min) 9/23/99; 9:00
Initial pH of Leachant 2.133 Final pH of Leachate 1.679
Cation Analysis No. T17-017 Dilution Factor

17 Leachant Replacement Date and Time(d:hr:min) 9/27/99; 9:15
Initial pH of Leachant 2.050 Final pH of Leachate 1.536
Cation Analysis No. T18-017 Dilution Factor

18 Leachant Replacement Date and Time(d:hr:min) 9/30/99; 9:45
Initial pH of Leachant 2.052 Final pH of Leachate 1.470
Cation Analysis No. T19-017 Dilution Factor

19 Leachant Replacement Date and Time(d:hr:min) 10/4/99; 9:00
Initial pH of Leachant 2.045 Final pH of Leachate 1.580
Cation Analysis No. T20-017 Dilution Factor

20 Leachant Replacement Date and Time(d:hr:min) 10/8/99; 9:30
Initial pH of Leachant 2.058 Final pH of Leachate 1.531
Cation Analysis No. T21-017 Dilution Factor

21 Leachant Replacement Date and Time(d:hr:min) 10/12/99; 9:45
Initial pH of Leachant 2.162 Final pH of Leachate 1.511
Cation Analysis No. T22-017 Dilution Factor

22 Leachant Replacement Date and Time(d:hr:min) 10/15/99; 9:45
Initial pH of Leachant 2.227 Final pH of Leachate 1.500
Cation Analysis No. T23-017 Dilution Factor

10/15/99

017

23 Leachant Replacement Date and Time(d:hr:min) 10/19/99 9:15
Initial pH of Leachant 2.210 Final pH of Leachate 1.388
Cation Analysis No. T24-017 Dilution Factor

24 Leachant Replacement Date and Time(d:hr:min) 10/26/99 10:00
Initial pH of Leachant 2.185 Final pH of Leachate 1.262
Cation Analysis No. T25-017 Dilution Factor

25 Leachant Replacement Date and Time(d:hr:min) 11/2/99 9:55
Initial pH of Leachant 2.143 Final pH of Leachate 1.264
Cation Analysis No. T26-017 Dilution Factor

26 Leachant Replacement Date and Time(d:hr:min) 11/9/99 9:30
Initial pH of Leachant 2.128 Final pH of Leachate 1.282
Cation Analysis No. T27-017 Dilution Factor

27 Leachant Replacement Date and Time(d:hr:min) 11/16/99 1:00
Initial pH of Leachant 2.022 Final pH of Leachate 1.191
Cation Analysis No. T28-017 Dilution Factor

28 Leachant Replacement Date and Time(d:hr:min) 11/23/99 10:30
Initial pH of Leachant 2.040 Final pH of Leachate 1.130
Cation Analysis No. T29-017 Dilution Factor

29 Leachant Replacement Date and Time(d:hr:min) 11/30/99 10:00
Initial pH of Leachant 1.968 Final pH of Leachate 1.133
Cation Analysis No. T30-017 Dilution Factor

30 Leachant Replacement Date and Time(d:hr:min) 12/7/99 11:15
Initial pH of Leachant 2.361 Final pH of Leachate 1.217
Cation Analysis No. T31-017 Dilution Factor

31 Leachant Replacement Date and Time(d:hr:min) 12/14/99 10:00
Initial pH of Leachant 2.239 Final pH of Leachate 1.185
Cation Analysis No. T32-017 Dilution Factor

32 Leachant Replacement Date and Time(d:hr:min) 12/21/99 10:00
Initial pH of Leachant 2.146 Final pH of Leachate 1.213
Cation Analysis No. T33-017 Dilution Factor

33 Leachant Replacement Date and Time(d:hr:min) 12/28/99 11:15
Initial pH of Leachant 2.203 Final pH of Leachate 1.160
Cation Analysis No. T34-017 Dilution Factor

34 Leachant Replacement Date and Time(d:hr:min) 1/4/00 10:30
Initial pH of Leachant 2.089 Final pH of Leachate 1.176
Cation Analysis No. T35-017 Dilution Factor

35 Leachant Replacement Date and Time(d:hr:min) 1/11/00 10:30
Initial pH of Leachant 2.066 Final pH of Leachate 1.134
Cation Analysis No. T36-017 Dilution Factor

36 Leachant Replacement Date and Time(d:hr:min) 1/18/00 10:50
Initial pH of Leachant 2.036 Final pH of Leachate 1.117
Cation Analysis No. T37-017 Dilution Factor

1/18/00

017

37 Leachant Replacement Date and Time(d:hr:min) 1/25/00 10:45
Initial pH of Leachant 1.961 Final pH of Leachate 1.168
Cation Analysis No. T38-017 Dilution Factor

38 Leachant Replacement Date and Time(d:hr:min) 2/2/00 3pm
Initial pH of Leachant 1.838 Final pH of Leachate 1.252
Cation Analysis No. T39-017 Dilution Factor

39 Leachant Replacement Date and Time(d:hr:min) 2/15/00 10:30
Initial pH of Leachant 1.831 Final pH of Leachate 1.015
Cation Analysis No. T40-017 Dilution Factor

40 Leachant Replacement Date and Time(d:hr:min) 2/29/00 2:30pm
Initial pH of Leachant 2.479 Final pH of Leachate 1.009
Cation Analysis No. T41-017 Dilution Factor

41 Leachant Replacement Date and Time(d:hr:min) 3/14/00 11:00am
Initial pH of Leachant 2.315 Final pH of Leachate 1.076
Cation Analysis No. T42-017 Dilution Factor

42 Leachant Replacement Date and Time(d:hr:min) 3/28/00 10:00am
Initial pH of Leachant 2.114 Final pH of Leachate 1.133
Cation Analysis No. T43-017 Dilution Factor

43 Leachant Replacement Date and Time(d:hr:min) 4/11/00 2:00
Initial pH of Leachant 1.961 Final pH of Leachate 1.038
Cation Analysis No. T44-017 Dilution Factor

44 Leachant Replacement Date and Time(d:hr:min) 4/25/00 2:00
Initial pH of Leachant 2.030 Final pH of Leachate 1.015
Cation Analysis No. T45-017 Dilution Factor

45 Leachant Replacement Date and Time(d:hr:min) 5/9/00 10:30
Initial pH of Leachant 2.013 Final pH of Leachate 1.103
Cation Analysis No. T46-017 Dilution Factor

46 Leachant Replacement Date and Time(d:hr:min) 5/23/00 2:00pm
Initial pH of Leachant 1.915 Final pH of Leachate 1.012
Cation Analysis No. T47-017 Dilution Factor

47 Leachant Replacement Date and Time(d:hr:min) 6/6/00 10:30
Initial pH of Leachant 1.922 Final pH of Leachate 0.990
Cation Analysis No. T48-017 Dilution Factor

6/16/00

48 Leachant Replacement Date and Time(d:hr:min) 6/20/00 1:00pm
Initial pH of Leachant 1.920 Final pH of Leachate 0.982
Cation Analysis No. T49-017 Dilution Factor

49 Leachant Replacement Date and Time(d:hr:min) 7/5/00 8:30
Initial pH of Leachant 1.850 Final pH of Leachate 0.956
Cation Analysis No. T50-017 Dilution Factor

50 Leachant Replacement Date and Time(d:hr:min) 7/18/00 10:30
Initial pH of Leachant 1.772 Final pH of Leachate 1.042
Cation Analysis No. T51-017 Dilution Factor

8/11/00

LONG-TERM TEST DATA SHEET

Test ID SRSHF3-T1

Vessel ID No. 018 Batch Cleaning No. 7-21-99

Glass Sample ID SRS
Sample Weight (g) 2.99962
Sample Preparation Date 07-29-99

Type of Solution 0.25 M $FeCl_3$
Leachant Volume (ml) 30
Initial pH of Leachant 1.339

Weight of Empty Vessel (g) 126.94035
Weight of Vessel + Sample (g) 129.93360
2nd Weight of Sample (Difference of the last two items) (g) 2.99325
Total Weight of Vessel + Sample + Solution (g) 160.52840

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 7/29/99; 2:00 PM

Final pH of Leachate ~~0.886~~ 0.981 8/31/99
Cation Analysis No. T1-018 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 8/2/99; 10:40
Initial pH of Leachant 1.400 Final pH of Leachate 0.774
Cation Analysis No. T2-018 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 8/5/99; 9:10
Initial pH of Leachant 1.420 Final pH of Leachate 0.672
Cation Analysis No. T3-018 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 8/9/99; 9:30
Initial pH of Leachant 1.285 Final pH of Leachate 0.679
Cation Analysis No. T4-018 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 8/12/99; 10:00
Initial pH of Leachant 1.272 Final pH of Leachate 0.880
Cation Analysis No. T5-018 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 8/16/99; 9:55
Initial pH of Leachant 1.484 Final pH of Leachate 0.748
Cation Analysis No. T6-018 Dilution Factor

6 Leachant Replacement Date and Time(d:hr:min) 8/19/99; 9:40
Initial pH of Leachant 1.488 Final pH of Leachate ~~0.78~~ 0.729 8/24/99
Cation Analysis No. T7-018 Dilution Factor

7 Leachant Replacement Date and Time(d:hr:min) 8/23/99; 9:30
Initial pH of Leachant 1.443 Final pH of Leachate 0.729
Cation Analysis No. T8-018 Dilution Factor

8 Leachant Replacement Date and Time(d:hr:min) 8/26/99; 8:50
Initial pH of Leachant 1.456 Final pH of Leachate 0.761
Cation Analysis No. T9-018 Dilution Factor

8/26/99

018

9 Leachant Replacement Date and Time(d:hr:min) 8/30/99; 9:50
Initial pH of Leachant 1.477 Final pH of Leachate ~~1.085~~ 0.735 9/13/99
Cation Analysis No. T10-018 Dilution Factor

10 Leachant Replacement Date and Time(d:hr:min) 9/2/99; 9:30
Initial pH of Leachant 1.489 Final pH of Leachate 0.754
Cation Analysis No. T11-018 Dilution Factor

11 Leachant Replacement Date and Time(d:hr:min) 9/6/99; 12:55
Initial pH of Leachant 1.533 Final pH of Leachate 0.739
Cation Analysis No. T12-018 Dilution Factor

12 Leachant Replacement Date and Time(d:hr:min) 9/9/99; 9:15
Initial pH of Leachant 1.484 Final pH of Leachate 0.703
Cation Analysis No. T13-018 Dilution Factor

13 Leachant Replacement Date and Time(d:hr:min) 9/13/99; 8:45
Initial pH of Leachant 1.506 Final pH of Leachate 0.760
Cation Analysis No. T14-018 Dilution Factor

14 Leachant Replacement Date and Time(d:hr:min) 9/16/99; 9:00
Initial pH of Leachant 1.558 Final pH of Leachate 0.731
Cation Analysis No. T15-018 Dilution Factor

15 Leachant Replacement Date and Time(d:hr:min) 9/20/99; 9:00
Initial pH of Leachant T16-018 Final pH of Leachate 0.653
Cation Analysis No. 1.545 Dilution Factor

16 Leachant Replacement Date and Time(d:hr:min) 9/23/99; 9:00
Initial pH of Leachant 1.425 Final pH of Leachate 0.644
Cation Analysis No. T17-018 Dilution Factor

17 Leachant Replacement Date and Time(d:hr:min) 9/27/99; 9:15
Initial pH of Leachant 1.431 Final pH of Leachate 0.627
Cation Analysis No. T18-018 Dilution Factor

18 Leachant Replacement Date and Time(d:hr:min) 9/30/99; 9:45
Initial pH of Leachant 1.433 Final pH of Leachate 0.646
Cation Analysis No. T19-018 Dilution Factor

19 Leachant Replacement Date and Time(d:hr:min) 10/4/99; 9:00
Initial pH of Leachant 1.245 Final pH of Leachate 0.657
Cation Analysis No. T20-018 Dilution Factor

20 Leachant Replacement Date and Time(d:hr:min) 10/8/99; 9:30
Initial pH of Leachant 1.270 Final pH of Leachate 0.595
Cation Analysis No. T21-018 Dilution Factor

21 Leachant Replacement Date and Time(d:hr:min) 10/12/99 9:45
Initial pH of Leachant 1.347 Final pH of Leachate 0.635
Cation Analysis No. T22-018 Dilution Factor

22 Leachant Replacement Date and Time(d:hr:min) 10/15/99; 9:45
Initial pH of Leachant 1.429 Final pH of Leachate 0.638
Cation Analysis No. T23-018 Dilution Factor

10/15/99

018

23 Leachant Replacement Date and Time(d:hr:min) 10/19/99 9:15
Initial pH of Leachant 1.392 Final pH of Leachate 0.574
Cation Analysis No. T24-018 Dilution Factor

24 Leachant Replacement Date and Time(d:hr:min) 10/26/99 10:00
Initial pH of Leachant 1.464 Final pH of Leachate 0.560
Cation Analysis No. T25-018 Dilution Factor

25 Leachant Replacement Date and Time(d:hr:min) 11/2/99 9:55
Initial pH of Leachant 1.419 Final pH of Leachate 0.582
Cation Analysis No. T26-018 Dilution Factor

26 Leachant Replacement Date and Time(d:hr:min) 11/9/99 9:30
Initial pH of Leachant 1.449 Final pH of Leachate 0.560
Cation Analysis No. T27-018 Dilution Factor

27 Leachant Replacement Date and Time(d:hr:min) 11/16/99 1:00
Initial pH of Leachant 1.363 Final pH of Leachate 0.510
Cation Analysis No. T28-018 Dilution Factor

28 Leachant Replacement Date and Time(d:hr:min) 11/23/99 10:30
Initial pH of Leachant 1.400 Final pH of Leachate 0.480
Cation Analysis No. T29-018 Dilution Factor

29 Leachant Replacement Date and Time(d:hr:min) 11/30/99 10:00
Initial pH of Leachant 1.362 Final pH of Leachate 0.611
Cation Analysis No. T30-018 Dilution Factor

30 Leachant Replacement Date and Time(d:hr:min) 12/7/99 11:15
Initial pH of Leachant 1.412 Final pH of Leachate 0.561
Cation Analysis No. T31-018 Dilution Factor

31 Leachant Replacement Date and Time(d:hr:min) 12/14/99 10:00
Initial pH of Leachant 1.432 Final pH of Leachate 0.560
Cation Analysis No. T32-018 Dilution Factor

32 Leachant Replacement Date and Time(d:hr:min) 12/21/99 10:00
Initial pH of Leachant 1.375 Final pH of Leachate 0.541
Cation Analysis No. T33-018 Dilution Factor

33 Leachant Replacement Date and Time(d:hr:min) 12/28/99 11:15
Initial pH of Leachant 1.435 Final pH of Leachate 0.469
Cation Analysis No. T34-018 Dilution Factor

34 Leachant Replacement Date and Time(d:hr:min) 1/4/00 10:30
Initial pH of Leachant 1.413 Final pH of Leachate 0.552
Cation Analysis No. T35-018 Dilution Factor

35 Leachant Replacement Date and Time(d:hr:min) 1/11/00 10:30
Initial pH of Leachant 1.405 Final pH of Leachate 0.665
Cation Analysis No. T36-018 Dilution Factor

36 Leachant Replacement Date and Time(d:hr:min) 1/18/00 10:50
Initial pH of Leachant 1.409 Final pH of Leachate 0.536
Cation Analysis No. T37-018 Dilution Factor

1/18/00

018

37 Leachant Replacement Date and Time(d:hr:min) 1/25/00 10:45
Initial pH of Leachant 1.369 Final pH of Leachate 0.813
Cation Analysis No. T38-018 Dilution Factor

38 Leachant Replacement Date and Time(d:hr:min) 2/2/00 3pm
Initial pH of Leachant 1.323 Final pH of Leachate 0.948
Cation Analysis No. T39-018 Dilution Factor

39 Leachant Replacement Date and Time(d:hr:min) 2/15/00 10:30
Initial pH of Leachant 1.391 Final pH of Leachate 0.539
Cation Analysis No. T40-018 Dilution Factor

40 Leachant Replacement Date and Time(d:hr:min) 2/29/00 2:30pm
Initial pH of Leachant 1.403 Final pH of Leachate 0.589
Cation Analysis No. T41-018 Dilution Factor

41 Leachant Replacement Date and Time(d:hr:min) 3/14/00 11:00am
Initial pH of Leachant 1.416 Final pH of Leachate 0.499
Cation Analysis No. T42-018 Dilution Factor

42 Leachant Replacement Date and Time(d:hr:min) 3/28/00 10:00am
Initial pH of Leachant 1.360 Final pH of Leachate 0.503
Cation Analysis No. T43-018 Dilution Factor

43 Leachant Replacement Date and Time(d:hr:min) 4/11/00 2:00 pm
Initial pH of Leachant 1.378 Final pH of Leachate 0.495
Cation Analysis No. T44-018 Dilution Factor

44 Leachant Replacement Date and Time(d:hr:min) 4/25/00 2:00 pm
Initial pH of Leachant 1.442 Final pH of Leachate 0.592
Cation Analysis No. T45-018 Dilution Factor

45 Leachant Replacement Date and Time(d:hr:min) 5/9/00 10:30
Initial pH of Leachant 1.443 Final pH of Leachate 0.522
Cation Analysis No. T46-018 Dilution Factor

46 Leachant Replacement Date and Time(d:hr:min) 5/23/00 2:00pm
Initial pH of Leachant 1.387 Final pH of Leachate 0.472
Cation Analysis No. T47-018 Dilution Factor

47 Leachant Replacement Date and Time(d:hr:min) 6/6/00 10:30
Initial pH of Leachant 1.399 Final pH of Leachate 0.481
Cation Analysis No. T48-018 Dilution Factor

6/6/00

48 Leachant Replacement Date and Time(d:hr:min) 6/20/00 1:00pm
Initial pH of Leachant 1.401 Final pH of Leachate 0.481
Cation Analysis No. T49-018 Dilution Factor

49 Leachant Replacement Date and Time(d:hr:min) 7/5/00 8:30
Initial pH of Leachant 1.385 Final pH of Leachate 0.462
Cation Analysis No. T50-018 Dilution Factor

50 Leachant Replacement Date and Time(d:hr:min) 7/18/00 10:30
Initial pH of Leachant 1.335 Final pH of Leachate 0.508
Cation Analysis No. T51-018 Dilution Factor

8/11/00

LONG-TERM TEST DATA SHEET

Test ID SRSHF3-T2

Vessel ID No. 019 Batch Cleaning No. 7-21-99

Glass Sample ID SRS
Sample Weight (g) 2.99989
Sample Preparation Date 07-29-99

Type of Solution 0.25 M FeCl3
Leachant Volume (ml) 80
Initial pH of Leachant 1.339

Weight of Empty Vessel (g) 126.92455
Weight of Vessel + Sample (g) 129.93885
2nd Weight of Sample (Difference of the last two items) (g) 3.0143
Total Weight of Vessel + Sample + Solution (g) 160.49685

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 7/29/99; 2:00 PM

Final pH of Leachate ~~0.900~~ 0.952
Cation Analysis No. T1-019 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 8/2/99; 10:40
Initial pH of Leachant 1.400 Final pH of Leachate 0.752
Cation Analysis No. T2-019 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 8/5/99; 9:10
Initial pH of Leachant 1.420 Final pH of Leachate 0.672
Cation Analysis No. T3-019 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 8/9/99; 9:30
Initial pH of Leachant 1.285 Final pH of Leachate 0.670
Cation Analysis No. T4-019 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 8/12/99; 10:00
Initial pH of Leachant 1.272 Final pH of Leachate 0.880
Cation Analysis No. T5-019 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 8/16/99; 9:55
Initial pH of Leachant 1.454 Final pH of Leachate 0.742
Cation Analysis No. T6-019 Dilution Factor

6 Leachant Replacement Date and Time(d:hr:min) 8/19/99 · 9:40
Initial pH of Leachant 1.488 Final pH of Leachate ~~0.729~~ 0.734
Cation Analysis No. T7-019 Dilution Factor

7 Leachant Replacement Date and Time(d:hr:min) 8/23/99; 9:30
Initial pH of Leachant 1.443 Final pH of Leachate 0.725
Cation Analysis No. T8-019 Dilution Factor

8 Leachant Replacement Date and Time(d:hr:min) 8/26/99; 8:50
Initial pH of Leachant 1.456 Final pH of Leachate 0.696
Cation Analysis No. T9-019 Dilution Factor

8/26/99

019

9 Leachant Replacement Date and Time(d:hr:min) 8/30/99; 9:50
Initial pH of Leachant 1.477 Final pH of Leachate ~~1.695~~ 0.737 9/3/99
Cation Analysis No. T10-019 Dilution Factor

10 Leachant Replacement Date and Time(d:hr:min) 9/2/99; 9:30
Initial pH of Leachant 1.489 Final pH of Leachate 0.750
Cation Analysis No. T11-019 Dilution Factor

11 Leachant Replacement Date and Time(d:hr:min) 9/6/99; 12:55
Initial pH of Leachant 1.533 Final pH of Leachate 0.730
Cation Analysis No. T12-019 Dilution Factor

12 Leachant Replacement Date and Time(d:hr:min) 9/9/99; 9:15
Initial pH of Leachant 1.484 Final pH of Leachate 0.701
Cation Analysis No. T13-019 Dilution Factor

13 Leachant Replacement Date and Time(d:hr:min) 9/13/99; 8:45
Initial pH of Leachant 1.506 Final pH of Leachate 0.753
Cation Analysis No. T14-019 Dilution Factor

14 Leachant Replacement Date and Time(d:hr:min) 9/16/99; 9:00
Initial pH of Leachant 1.558 Final pH of Leachate 0.729
Cation Analysis No. T15-019 Dilution Factor

15 Leachant Replacement Date and Time(d:hr:min) 9/20/99; 9:00
Initial pH of Leachant 1.545 Final pH of Leachate 0.651
Cation Analysis No. T16-019 Dilution Factor

16 Leachant Replacement Date and Time(d:hr:min) 9/23/99; 9:00
Initial pH of Leachant 1.425 Final pH of Leachate 0.639
Cation Analysis No. T17-019 Dilution Factor

17 Leachant Replacement Date and Time(d:hr:min) 9/27/99; 9:15
Initial pH of Leachant 1.431 Final pH of Leachate 0.628
Cation Analysis No. T18-019 Dilution Factor

18 Leachant Replacement Date and Time(d:hr:min) 9/30/99; 9:45
Initial pH of Leachant 1.433 Final pH of Leachate 0.653
Cation Analysis No. T19-019 Dilution Factor

19 Leachant Replacement Date and Time(d:hr:min) 10/4/99; 9:00
Initial pH of Leachant 1.245 Final pH of Leachate 0.655
Cation Analysis No. T20-019 Dilution Factor

20 Leachant Replacement Date and Time(d:hr:min) 10/8/99; 9:30
Initial pH of Leachant 1.270 Final pH of Leachate 0.589
Cation Analysis No. T21-019 Dilution Factor

21 Leachant Replacement Date and Time(d:hr:min) 10/12/99 9:45
Initial pH of Leachant 1.347 Final pH of Leachate 0.618
Cation Analysis No. T22-019 Dilution Factor

22 Leachant Replacement Date and Time(d:hr:min) 10/15/99; 9:45
Initial pH of Leachant 1.429 Final pH of Leachate 0.617
Cation Analysis No. T23-019 Dilution Factor

10/15/99

019

23 Leachant Replacement Date and Time(d:hr:min) 10/19/99 9:15
Initial pH of Leachant 1.392 Final pH of Leachate 0.575
Cation Analysis No. T24-019 Dilution Factor

24 Leachant Replacement Date and Time(d:hr:min) 10/26/99 10:00
Initial pH of Leachant 1.464 Final pH of Leachate 0.545
Cation Analysis No. T25-019 Dilution Factor

25 Leachant Replacement Date and Time(d:hr:min) 11/2/99 9:55
Initial pH of Leachant 1.419 Final pH of Leachate 0.565
Cation Analysis No. T26-019 Dilution Factor

26 Leachant Replacement Date and Time(d:hr:min) 11/9/99 9:30
Initial pH of Leachant 1.449 Final pH of Leachate 0.554
Cation Analysis No. T27-019 Dilution Factor

27 Leachant Replacement Date and Time(d:hr:min) 11/16/99 1:00
Initial pH of Leachant 1.363 Final pH of Leachate 0.500
Cation Analysis No. T28-019 Dilution Factor

28 Leachant Replacement Date and Time(d:hr:min) 11/23/99 10:30
Initial pH of Leachant 1.400 Final pH of Leachate 0.465
Cation Analysis No. T29-019 Dilution Factor

29 Leachant Replacement Date and Time(d:hr:min) 11/30/99 10:00
Initial pH of Leachant 1.362 Final pH of Leachate 0.638
Cation Analysis No. T30-019 Dilution Factor

30 Leachant Replacement Date and Time(d:hr:min) 12/7/99 11:15
Initial pH of Leachant 1.412 Final pH of Leachate 0.562
Cation Analysis No. T31-019 Dilution Factor

31 Leachant Replacement Date and Time(d:hr:min) 12/14/99 10:00
Initial pH of Leachant 1.432 Final pH of Leachate 0.549
Cation Analysis No. T32-019 Dilution Factor

32 Leachant Replacement Date and Time(d:hr:min) 12/21/99 10:00
Initial pH of Leachant 1.375 Final pH of Leachate 0.501
Cation Analysis No. T33-019 Dilution Factor

33 Leachant Replacement Date and Time(d:hr:min) 12/28/99 11:15
Initial pH of Leachant 1.435 Final pH of Leachate 0.455
Cation Analysis No. T34-019 Dilution Factor

34 Leachant Replacement Date and Time(d:hr:min) 1/4/00 10:30
Initial pH of Leachant 1.413 Final pH of Leachate 0.487
Cation Analysis No. T35-019 Dilution Factor

35 Leachant Replacement Date and Time(d:hr:min) 1/11/00 10:30
Initial pH of Leachant 1.405 Final pH of Leachate 0.985
Cation Analysis No. T36-019 Dilution Factor

36 Leachant Replacement Date and Time(d:hr:min) 1/18/00 10:50
Initial pH of Leachant 1.409 Final pH of Leachate 0.541
Cation Analysis No. T37-019 Dilution Factor

Yi Pan 1/18/00

019

37 Leachant Replacement Date and Time(d:hr:min) 1/25/00 10:45
Initial pH of Leachant 1.369 Final pH of Leachate 0.686
Cation Analysis No. T38-019 Dilution Factor

38 Leachant Replacement Date and Time(d:hr:min) 2/2/00 3pm
Initial pH of Leachant 1.323 Final pH of Leachate 0.643
Cation Analysis No. T39-019 Dilution Factor

39 Leachant Replacement Date and Time(d:hr:min) 2/15/00 10:30
Initial pH of Leachant 1.301 Final pH of Leachate 0.552
Cation Analysis No. T40-019 Dilution Factor

40 Leachant Replacement Date and Time(d:hr:min) 2/29/00 2:30pm
Initial pH of Leachant 1.403 Final pH of Leachate 1.220
Cation Analysis No. T41-019 Dilution Factor

41 Leachant Replacement Date and Time(d:hr:min) 3/14/00 11:00am
Initial pH of Leachant 1.416 Final pH of Leachate 0.498
Cation Analysis No. T42-019 Dilution Factor

42 Leachant Replacement Date and Time(d:hr:min) 3/28/00 10:00am
Initial pH of Leachant 1.360 Final pH of Leachate 0.522
Cation Analysis No. T43-019 Dilution Factor

43 Leachant Replacement Date and Time(d:hr:min) 4/11/00 2:00 pm
Initial pH of Leachant 1.378 Final pH of Leachate 0.572
Cation Analysis No. T44-019 Dilution Factor

44 Leachant Replacement Date and Time(d:hr:min) 4/25/00 2:00 pm
Initial pH of Leachant 1.442 Final pH of Leachate 0.494
Cation Analysis No. T45-019 Dilution Factor

45 Leachant Replacement Date and Time(d:hr:min) 5/9/00 10:30
Initial pH of Leachant 1.443 Final pH of Leachate 0.492
Cation Analysis No. T46-019 Dilution Factor

46 Leachant Replacement Date and Time(d:hr:min) 5/23/00 2:00pm
Initial pH of Leachant 1.387 Final pH of Leachate 0.495
Cation Analysis No. T47-019 Dilution Factor

47 Leachant Replacement Date and Time(d:hr:min) 6/6/00 10:30
Initial pH of Leachant 1.399 Final pH of Leachate 0.475
Cation Analysis No. T48-019 Dilution Factor

Yi Pan 6/6/00

48 Leachant Replacement Date and Time(d:hr:min) 6/20/00 1:00pm
Initial pH of Leachant 1.401 Final pH of Leachate 0.471
Cation Analysis No. T49-019 Dilution Factor

49 Leachant Replacement Date and Time(d:hr:min) 7/5/00 8:30
Initial pH of Leachant 1.385 Final pH of Leachate 0.454
Cation Analysis No. T50-019 Dilution Factor

50 Leachant Replacement Date and Time(d:hr:min) 7/18/00 10:30
Initial pH of Leachant 1.335 Final pH of Leachate 0.479
Cation Analysis No. T51-019 Dilution Factor

Yi Pan 8/11/00

LONG-TERM TEST DATA SHEET

Test ID SRS HF3-T3

Vessel ID No. 020 Batch Cleaning No. 7-21-99

Glass Sample ID SRS
Sample Weight (g) 2.99960
Sample Preparation Date 07-29-99

Type of Solution 0.25 M FeCl3
Leachant Volume (ml) 30
Initial pH of Leachant 1.339

Weight of Empty Vessel (g) 126.66425
Weight of Vessel + Sample (g) 129.68685
2nd Weight of Sample (Difference of the last two items) (g) 3.0226
Total Weight of Vessel + Sample + Solution (g) 160.38680

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 7/29/99; 2:00 PM

Final pH of Leachate ~~0.869~~ 0.956 8/2/99
Cation Analysis No. T1-020 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 8/2/99; 10:40
Initial pH of Leachant 1.400 Final pH of Leachate 0.761
Cation Analysis No. T2-020 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 8/5/99; 9:10
Initial pH of Leachant 1.420 Final pH of Leachate 0.670
Cation Analysis No. T3-020 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 8/9/99; 9:30
Initial pH of Leachant 1.285 Final pH of Leachate 0.683
Cation Analysis No. T4-020 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 8/12/99; 10:00
Initial pH of Leachant 1.272 Final pH of Leachate 0.834
Cation Analysis No. T5-020 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 8/16/99; 9:55
Initial pH of Leachant 1.484 Final pH of Leachate 0.729
Cation Analysis No. T6-020 Dilution Factor

6 Leachant Replacement Date and Time(d:hr:min) 8/19/99; 9:40
Initial pH of Leachant 1.488 Final pH of Leachate 0.738
Cation Analysis No. T7-020 Dilution Factor

7 Leachant Replacement Date and Time(d:hr:min) 8/23/99; 9:30
Initial pH of Leachant 1.443 Final pH of Leachate 0.722
Cation Analysis No. T8-020 Dilution Factor

8 Leachant Replacement Date and Time(d:hr:min) 8/26/99; 8:50
Initial pH of Leachant 1.456 Final pH of Leachate 0.738
Cation Analysis No. T9-020 Dilution Factor

8/26/99

020

9 Leachant Replacement Date and Time(d:hr:min) 8/30/99; 9:50
Initial pH of Leachant 1.477 Final pH of Leachate 0.734
Cation Analysis No. T10-020 Dilution Factor

10 Leachant Replacement Date and Time(d:hr:min) 9/2/99; 9:30
Initial pH of Leachant 1.489 Final pH of Leachate 0.752
Cation Analysis No. T11-020 Dilution Factor

11 Leachant Replacement Date and Time(d:hr:min) 9/6/99; 12:55
Initial pH of Leachant 1.533 Final pH of Leachate 0.723
Cation Analysis No. T12-020 Dilution Factor

12 Leachant Replacement Date and Time(d:hr:min) 9/9/99; 9:15
Initial pH of Leachant 1.484 Final pH of Leachate 0.697
Cation Analysis No. T13-020 Dilution Factor

13 Leachant Replacement Date and Time(d:hr:min) 9/13/99; 8:45
Initial pH of Leachant 1.506 Final pH of Leachate 0.756
Cation Analysis No. T14-020 Dilution Factor

14 Leachant Replacement Date and Time(d:hr:min) 9/16/99; 9:00
Initial pH of Leachant 1.558 Final pH of Leachate 0.727
Cation Analysis No. T15-020 Dilution Factor

15 Leachant Replacement Date and Time(d:hr:min) 9/20/99; 9:00
Initial pH of Leachant 1.545 Final pH of Leachate 0.653
Cation Analysis No. T16-021 Dilution Factor

16 Leachant Replacement Date and Time(d:hr:min) 9/23/99; 9:00
Initial pH of Leachant 1.425 Final pH of Leachate 0.632
Cation Analysis No. T17-021 Dilution Factor

17 Leachant Replacement Date and Time(d:hr:min) 9/27/99; 9:00
Initial pH of Leachant 1.431 Final pH of Leachate 0.622
Cation Analysis No. T18-021 Dilution Factor

18 Leachant Replacement Date and Time(d:hr:min) 9/30/99; 9:45
Initial pH of Leachant 1.433 Final pH of Leachate 0.629
Cation Analysis No. T19-020 Dilution Factor

19 Leachant Replacement Date and Time(d:hr:min) 10/4/99; 9:00
Initial pH of Leachant 1.245 Final pH of Leachate 0.664
Cation Analysis No. T20-020 Dilution Factor

20 Leachant Replacement Date and Time(d:hr:min) 10/8/99; 9:30
Initial pH of Leachant 1.270 Final pH of Leachate 0.620
Cation Analysis No. T21-020 Dilution Factor

21 Leachant Replacement Date and Time(d:hr:min) 10/12/99; 9:45
Initial pH of Leachant 1.347 Final pH of Leachate 0.629
Cation Analysis No. T22-020 Dilution Factor

22 Leachant Replacement Date and Time(d:hr:min) 10/15/99; 9:45
Initial pH of Leachant 1.429 Final pH of Leachate 0.626
Cation Analysis No. T23-020 Dilution Factor

10/15/99

020

23 Leachant Replacement Date and Time(d:hr:min) 10/19/99 9:15
Initial pH of Leachant 1.392 — Final pH of Leachate 0.568
Cation Analysis No. T24-020 — Dilution Factor

24 Leachant Replacement Date and Time(d:hr:min) 10/26/99 10:00
Initial pH of Leachant 1.464 — Final pH of Leachate 0.541
Cation Analysis No. T25-020 — Dilution Factor

25 Leachant Replacement Date and Time(d:hr:min) 11/2/99 9:55
Initial pH of Leachant 1.419 — Final pH of Leachate 0.563
Cation Analysis No. T26-020 — Dilution Factor

26 Leachant Replacement Date and Time(d:hr:min) 11/9/99 9:30
Initial pH of Leachant 1.449 — Final pH of Leachate 0.543
Cation Analysis No. T27-020 — Dilution Factor

27 Leachant Replacement Date and Time(d:hr:min) 11/16/99 1:00
Initial pH of Leachant 1.363 — Final pH of Leachate 0.521
Cation Analysis No. T28-020 — Dilution Factor

28 Leachant Replacement Date and Time(d:hr:min) 11/23/99 10:30
Initial pH of Leachant 1.400 — Final pH of Leachate 0.472
Cation Analysis No. ~~T28-020~~ 98 T29-020 11/23/99 — Dilution Factor

29 Leachant Replacement Date and Time(d:hr:min) 11/30/99 10:00
Initial pH of Leachant 1.362 — Final pH of Leachate 0.513
Cation Analysis No. ~~T29-020~~ 99 T30 T30-020 11/30/99 — Dilution Factor

30 Leachant Replacement Date and Time(d:hr:min) 12/7/99 11:15
Initial pH of Leachant 1.412 — Final pH of Leachate 0.564
Cation Analysis No. ~~T30-020~~ 1 T31-020 12/7/99 — Dilution Factor

31 Leachant Replacement Date and Time(d:hr:min) 12/14/99 10:00
Initial pH of Leachant 1.432 — Final pH of Leachate 0.537
Cation Analysis No. T32-020 — Dilution Factor

32 Leachant Replacement Date and Time(d:hr:min) 12/21/99 10:00
Initial pH of Leachant 1.375 — Final pH of Leachate 0.507
Cation Analysis No. T33-020 — Dilution Factor

33 Leachant Replacement Date and Time(d:hr:min) 12/28/99 11:15
Initial pH of Leachant 1.435 — Final pH of Leachate 0.468
Cation Analysis No. T34-020 — Dilution Factor

34 Leachant Replacement Date and Time(d:hr:min) 1/4/00 10:30
Initial pH of Leachant 1.413 — Final pH of Leachate 0.489
Cation Analysis No. T35-020 — Dilution Factor

35 Leachant Replacement Date and Time(d:hr:min) 1/11/00 10:30
Initial pH of Leachant 1.405 — Final pH of Leachate 0.579
Cation Analysis No. T36-020 — Dilution Factor

36 Leachant Replacement Date and Time(d:hr:min) 1/18/00
Initial pH of Leachant 1.409 — Final pH of Leachate 0.503
Cation Analysis No. T37-020 — Dilution Factor

1/18/00

020

37 Leachant Replacement Date and Time(d:hr:min) 1/25/00 10:45
Initial pH of Leachant 1.369 — Final pH of Leachate 0.574
Cation Analysis No. T38-020 — Dilution Factor

38 Leachant Replacement Date and Time(d:hr:min) 2/2/00 3pm
Initial pH of Leachant 1.323 — Final pH of Leachate 0.583
Cation Analysis No. T39-020 — Dilution Factor

39 Leachant Replacement Date and Time(d:hr:min) 2/15/00 10:30
Initial pH of Leachant 1.301 — Final pH of Leachate 0.490
Cation Analysis No. T40-020 — Dilution Factor

40 Leachant Replacement Date and Time(d:hr:min) 2/29/00 2:30pm
Initial pH of Leachant 1.403 — Final pH of Leachate 0.630
Cation Analysis No. T41-020 — Dilution Factor

41 Leachant Replacement Date and Time(d:hr:min) 3/14/00 11:00am
Initial pH of Leachant 1.416 — Final pH of Leachate 0.555
Cation Analysis No. T42-020 — Dilution Factor

42 Leachant Replacement Date and Time(d:hr:min) 3/28/00 10:00Am
Initial pH of Leachant 1.360 — Final pH of Leachate 0.544
Cation Analysis No. T43-020 — Dilution Factor

43 Leachant Replacement Date and Time(d:hr:min) 4/11/00 2:00pm
Initial pH of Leachant 1.378 — Final pH of Leachate 0.460
Cation Analysis No. T44-020 — Dilution Factor

44 Leachant Replacement Date and Time(d:hr:min) 4/25/00 2.00pm
Initial pH of Leachant 1.442 — Final pH of Leachate 0.497
Cation Analysis No. T45-020 — Dilution Factor

45 Leachant Replacement Date and Time(d:hr:min) 5/9/00 10:30
Initial pH of Leachant 1.443 — Final pH of Leachate 0.502
Cation Analysis No. T46-020 — Dilution Factor

46 Leachant Replacement Date and Time(d:hr:min) 5/23/00 2:00pm
Initial pH of Leachant 1.387 — Final pH of Leachate 0.465
Cation Analysis No. T47-020 — Dilution Factor

47 Leachant Replacement Date and Time(d:hr:min) 6/6/00 10:30
Initial pH of Leachant 1.399 — Final pH of Leachate 0.470
Cation Analysis No. T48-020 — Dilution Factor

6/6/00

48 Leachant Replacement Date and Time(d:hr:min) 6/20/00 1:00pm
Initial pH of Leachant 1.401 — Final pH of Leachate 0.447
Cation Analysis No. T49-020 — Dilution Factor

49 Leachant Replacement Date and Time(d:hr:min) 7/5/00 8:30
Initial pH of Leachant 1.385 — Final pH of Leachate 0.448
Cation Analysis No. T50-020 — Dilution Factor

50 Leachant Replacement Date and Time(d:hr:min) 7/18/00 10:30
Initial pH of Leachant 1.335 — Final pH of Leachate 0.486
Cation Analysis No. T51-020 — Dilution Factor

8/11/00

LONG-TERM TEST DATA SHEET

Test ID WVNSHF3-T1

Vessel ID No. 021 Batch Cleaning No. 7-21-99

Glass Sample ID WVNS
Sample Weight (g) 2.99976
Sample Preparation Date 07-29-99

Type of Solution 0.25 M $FeCl_3$
Leachant Volume (ml) 30
Initial pH of Leachant 1.339

Weight of Empty Vessel (g) 126.84230
Weight of Vessel + Sample (g) 129.84160
2nd Weight of Sample (Difference of the last two items) (g) 2.9993
Total Weight of Vessel + Sample + Solution (g) 160.56130

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 7/29/99; 2:00PM

Final pH of Leachate 1.883
Cation Analysis No. T1-021 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 8/2/99; 10:40
Initial pH of Leachant 1.400 Final pH of Leachate 0.992
Cation Analysis No. T2-021 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 8/5/99; 9:10
Initial pH of Leachant 1.420 Final pH of Leachate 0.663
Cation Analysis No. T3-021 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 8/9/99; 9:30
Initial pH of Leachant 1.285 Final pH of Leachate 0.650
Cation Analysis No. T4-021 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 8/12/99; 10:00
Initial pH of Leachant 1.272 Final pH of Leachate 0.794
Cation Analysis No. T5-021 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 8/16/99; 9:55
Initial pH of Leachant 1.454 Final pH of Leachate 0.734
Cation Analysis No. T6-021 Dilution Factor

6 Leachant Replacement Date and Time(d:hr:min) 8/19/99; 9:40
Initial pH of Leachant 1.488 Final pH of Leachate 0.733
Cation Analysis No. T7-021 Dilution Factor

7 Leachant Replacement Date and Time(d:hr:min) 8/23/99; 9:30
Initial pH of Leachant 1.443 Final pH of Leachate 0.741
Cation Analysis No. T8-021 Dilution Factor

8 Leachant Replacement Date and Time(d:hr:min) 8/26/99; 9:50
Initial pH of Leachant 1.456 Final pH of Leachate 0.743
Cation Analysis No. T9-021 Dilution Factor

8/26/99

021

9 Leachant Replacement Date and Time(d:hr:min) 8/30/99; 9:50
Initial pH of Leachant 1.477 Final pH of Leachate 0.753
Cation Analysis No. T10-021 Dilution Factor

10 Leachant Replacement Date and Time(d:hr:min) 9/2/99; 9:30
Initial pH of Leachant 1.489 Final pH of Leachate 0.781
Cation Analysis No. T11-021 Dilution Factor

11 Leachant Replacement Date and Time(d:hr:min) 9/6/99; 12:55
Initial pH of Leachant 1.533 Final pH of Leachate 0.762
Cation Analysis No. T12-021 Dilution Factor

12 Leachant Replacement Date and Time(d:hr:min) 9/9/99; 9:15
Initial pH of Leachant 1.484 Final pH of Leachate 0.736
Cation Analysis No. T13-021 Dilution Factor

13 Leachant Replacement Date and Time(d:hr:min) 9/13/99; 8:45
Initial pH of Leachant 1.506 Final pH of Leachate 0.792
Cation Analysis No. T14-021 Dilution Factor

14 Leachant Replacement Date and Time(d:hr:min) 9/16/99; 9:00
Initial pH of Leachant 1.558 Final pH of Leachate 0.772
Cation Analysis No. T15-021 Dilution Factor

15 Leachant Replacement Date and Time(d:hr:min) 9/20/99; 9:00
Initial pH of Leachant 1.545 Final pH of Leachate 0.699
Cation Analysis No. T16-021 Dilution Factor

16 Leachant Replacement Date and Time(d:hr:min) 9/23/99; 9:00
Initial pH of Leachant 1.425 Final pH of Leachate 0.687
Cation Analysis No. T17-021 Dilution Factor

17 Leachant Replacement Date and Time(d:hr:min) 9/27/99; 9:15
Initial pH of Leachant 1.431 Final pH of Leachate 0.690
Cation Analysis No. T18-021 Dilution Factor

18 Leachant Replacement Date and Time(d:hr:min) 9/30/99; 9:45
Initial pH of Leachant 1.433 Final pH of Leachate 0.684
Cation Analysis No. T19-021 Dilution Factor

19 Leachant Replacement Date and Time(d:hr:min) 10/4/99 9:00
Initial pH of Leachant 1.245 Final pH of Leachate 0.724
Cation Analysis No. T20-021 Dilution Factor

20 Leachant Replacement Date and Time(d:hr:min) 10/8/99; 9:30
Initial pH of Leachant 1.270 Final pH of Leachate 0.681
Cation Analysis No. T21-021 Dilution Factor

21 Leachant Replacement Date and Time(d:hr:min) 10/12/99 9:45
Initial pH of Leachant 1.347 Final pH of Leachate 0.699
Cation Analysis No. T22-021 Dilution Factor

22 Leachant Replacement Date and Time(d:hr:min) 10/15/99; 9:45
Initial pH of Leachant 1.429 Final pH of Leachate 0.694
Cation Analysis No. T23-021 Dilution Factor

10/15/99

021

23 Leachant Replacement Date and Time(d:hr:min) 10/19/99 9:15
Initial pH of Leachant 1.392
Cation Analysis No. T24-021
Final pH of Leachate 0.700
Dilution Factor

24 Leachant Replacement Date and Time(d:hr:min) 10/26/99 10:00
Initial pH of Leachant 1.464
Cation Analysis No. T25-021
Final pH of Leachate 0.615
Dilution Factor

25 Leachant Replacement Date and Time(d:hr:min) 11/2/99 9:55
Initial pH of Leachant 1.419
Cation Analysis No. T26-021
Final pH of Leachate 0.655
Dilution Factor

26 Leachant Replacement Date and Time(d:hr:min) 11/9/99 9:30
Initial pH of Leachant 1.449
Cation Analysis No. T27-021
Final pH of Leachate 0.644
Dilution Factor

27 Leachant Replacement Date and Time(d:hr:min) 11/16/99 1:00
Initial pH of Leachant 1.363
Cation Analysis No. T28-021
Final pH of Leachate 0.605
Dilution Factor

28 Leachant Replacement Date and Time(d:hr:min) 11/23/99 10:30
Initial pH of Leachant 1.400
Cation Analysis No. T29-021
Final pH of Leachate 0.595
Dilution Factor

29 Leachant Replacement Date and Time(d:hr:min) 11/30/99 10:00
Initial pH of Leachant 1.362
Cation Analysis No. T30-021
Final pH of Leachate 0.877
Dilution Factor

30 Leachant Replacement Date and Time(d:hr:min) 12/7/99 11:15
Initial pH of Leachant 1.412
Cation Analysis No. T31-021
Final pH of Leachate 0.673
Dilution Factor

31 Leachant Replacement Date and Time(d:hr:min) 12/14/99 10:00
Initial pH of Leachant 1.432
Cation Analysis No. T32-021
Final pH of Leachate 0.632
Dilution Factor

32 Leachant Replacement Date and Time(d:hr:min) 12/21/99 10:00
Initial pH of Leachant 1.375
Cation Analysis No. T33-021
Final pH of Leachate 0.622
Dilution Factor

33 Leachant Replacement Date and Time(d:hr:min) 12/28/99 11:15
Initial pH of Leachant 1.435
Cation Analysis No. T34-021
Final pH of Leachate 0.555
Dilution Factor

34 Leachant Replacement Date and Time(d:hr:min) 1/4/00 10:30
Initial pH of Leachant 1.413
Cation Analysis No. T35-021
Final pH of Leachate 0.576
Dilution Factor

35 Leachant Replacement Date and Time(d:hr:min) 1/11/00 10:30
Initial pH of Leachant 1.405
Cation Analysis No. T36-021
Final pH of Leachate 0.707
Dilution Factor

36 Leachant Replacement Date and Time(d:hr:min) 1/18/00 10:50
Initial pH of Leachant 1.409
Cation Analysis No. T37-021
Final pH of Leachate 0.559
Dilution Factor

1/18/00

021

37 Leachant Replacement Date and Time(d:hr:min) 1/25/00 10:45
Initial pH of Leachant 1.369
Cation Analysis No. T38-021
Final pH of Leachate 0.667
Dilution Factor

38 Leachant Replacement Date and Time(d:hr:min) 2/2/00 3pm
Initial pH of Leachant 1.323
Cation Analysis No. T39-021
Final pH of Leachate 0.586
Dilution Factor

39 Leachant Replacement Date and Time(d:hr:min) 2/15/00 10:30
Initial pH of Leachant 1.301
Cation Analysis No. T40-021
Final pH of Leachate 0.614
Dilution Factor

40 Leachant Replacement Date and Time(d:hr:min) 2/29/00 2:30pm
Initial pH of Leachant 1.403
Cation Analysis No. T41-021
Final pH of Leachate 1.030
Dilution Factor

41 Leachant Replacement Date and Time(d:hr:min) 3/14/00 11:00am
Initial pH of Leachant 1.416
Cation Analysis No. T42-021
Final pH of Leachate 0.575
Dilution Factor

42 Leachant Replacement Date and Time(d:hr:min) 3/28/00 10:00 am
Initial pH of Leachant 1.360
Cation Analysis No. T43-021
Final pH of Leachate 0.523
Dilution Factor

43 Leachant Replacement Date and Time(d:hr:min) 4/11/00 2:00 pm
Initial pH of Leachant 1.378
Cation Analysis No. T44-021
Final pH of Leachate 0.558
Dilution Factor

44 Leachant Replacement Date and Time(d:hr:min) 4/25/00 2:00 pm
Initial pH of Leachant 1.442
Cation Analysis No. T45-021
Final pH of Leachate 0.594
Dilution Factor

45 Leachant Replacement Date and Time(d:hr:min) 5/9/00 10:30
Initial pH of Leachant 1.443
Cation Analysis No. T46-021
Final pH of Leachate 0.664
Dilution Factor

46 Leachant Replacement Date and Time(d:hr:min) 5/23/00 2:00pm
Initial pH of Leachant 1.387
Cation Analysis No. T47-021
Final pH of Leachate 0.505
Dilution Factor

47 Leachant Replacement Date and Time(d:hr:min) 6/6/00 10:30
Initial pH of Leachant 1.399
Cation Analysis No. T48-021
Final pH of Leachate 0.506
Dilution Factor

6/6/00

48 Leachant Replacement Date and Time(d:hr:min) 6/20/00 1:00pm
Initial pH of Leachant 1.401
Cation Analysis No. T49-021
Final pH of Leachate 0.469
Dilution Factor

49 Leachant Replacement Date and Time(d:hr:min) 7/5/00 8:30
Initial pH of Leachant 1.385
Cation Analysis No. T50-021
Final pH of Leachate 0.560
Dilution Factor

50 Leachant Replacement Date and Time(d:hr:min) 7/18/00 10:30
Initial pH of Leachant 1.335
Cation Analysis No. T51-021
Final pH of Leachate 0.532
Dilution Factor

8/11/00

LONG-TERM TEST DATA SHEET

Test ID WVNS HF3-T2

Vessel ID No. 022 Batch Cleaning No. 7-21-99

Glass Sample ID WVNS
Sample Weight (g) 3.0004
Sample Preparation Date 07-29-99

Type of Solution 0.25 M FeCl3
Leachant Volume (ml) 30
Initial pH of Leachant 1.339

Weight of Empty Vessel (g) 126.33015
Weight of Vessel + Sample (g) 129.34825
2nd Weight of Sample (Difference of the last two items) (g) 3.0381
Total Weight of Vessel + Sample + Solution (g) 160.06040

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 7/29/99; 2:00 PM

Final pH of Leachate ~~1.760~~ 1.886 7/29/99
Cation Analysis No. T1-022 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 8/2/99; 10:40
Initial pH of Leachant 1.400 Final pH of Leachate 0.982
Cation Analysis No. T2-022 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 8/5/99; 9:10
Initial pH of Leachant 1.420 Final pH of Leachate 0.687
Cation Analysis No. T3-022 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 8/9/99; 9:30
Initial pH of Leachant 1.285 Final pH of Leachate 0.645
Cation Analysis No. T4-022 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 8/12/99; 10:00
Initial pH of Leachant 1.272 Final pH of Leachate 0.796
Cation Analysis No. T5-022 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 8/16/99; 9:55
Initial pH of Leachant 1.484 Final pH of Leachate 0.732
Cation Analysis No. T6-022 Dilution Factor

6 Leachant Replacement Date and Time(d:hr:min) 8/19/99; 9:40
Initial pH of Leachant 1.485 Final pH of Leachate 0.736
Cation Analysis No. T7-022 Dilution Factor

7 Leachant Replacement Date and Time(d:hr:min) 8/23/99; 9:30
Initial pH of Leachant 1.443 Final pH of Leachate 0.750
Cation Analysis No. T8-022 Dilution Factor

8 Leachant Replacement Date and Time(d:hr:min) 8/26/99; 8:50
Initial pH of Leachant 1.456 Final pH of Leachate 0.736
Cation Analysis No. T9-022 Dilution Factor

8/26/99

C22

9 Leachant Replacement Date and Time(d:hr:min) 8/30/99; 9:50
Initial pH of Leachant 1.477 Final pH of Leachate 0.758
Cation Analysis No. T10-022 Dilution Factor

10 Leachant Replacement Date and Time(d:hr:min) 9/2/99; 9:30
Initial pH of Leachant 1.489 Final pH of Leachate 0.778
Cation Analysis No. T11-022 Dilution Factor

11 Leachant Replacement Date and Time(d:hr:min) 9/6/99; 12:55
Initial pH of Leachant 1.533 Final pH of Leachate 0.760
Cation Analysis No. T12-022 Dilution Factor

12 Leachant Replacement Date and Time(d:hr:min) 9/9/99; 9:15
Initial pH of Leachant 1.484 Final pH of Leachate 0.741
Cation Analysis No. T13-022 Dilution Factor

13 Leachant Replacement Date and Time(d:hr:min) 9/13/99; 8:45
Initial pH of Leachant 1.506 Final pH of Leachate 0.793
Cation Analysis No. T14-022 Dilution Factor

14 Leachant Replacement Date and Time(d:hr:min) 9/16/99; 9:00
Initial pH of Leachant 1.558 Final pH of Leachate 0.780
Cation Analysis No. T15-022 Dilution Factor

15 Leachant Replacement Date and Time(d:hr:min) 9/20/99; 9:00
Initial pH of Leachant 1.545 Final pH of Leachate 0.705
Cation Analysis No. T16-022 Dilution Factor

16 Leachant Replacement Date and Time(d:hr:min) 9/23/99, 9:00
Initial pH of Leachant 1.425 Final pH of Leachate 0.691
Cation Analysis No. T17-022 Dilution Factor

17 Leachant Replacement Date and Time(d:hr:min) 9/27/99; 9:15
Initial pH of Leachant 1.431 Final pH of Leachate 0.692
Cation Analysis No. T18-022 Dilution Factor

18 Leachant Replacement Date and Time(d:hr:min) 9/30/99; 9:45
Initial pH of Leachant 1.433 Final pH of Leachate 0.692
Cation Analysis No. T19-022 Dilution Factor

19 Leachant Replacement Date and Time(d:hr:min) 10/4/99; 9:00
Initial pH of Leachant 1.245 Final pH of Leachate 0.726
Cation Analysis No. T20-022 Dilution Factor

20 Leachant Replacement Date and Time(d:hr:min) 10/8/99; 9:30
Initial pH of Leachant 1.270 Final pH of Leachate 0.684
Cation Analysis No. T21-022 Dilution Factor

21 Leachant Replacement Date and Time(d:hr:min) 10/12/99 9:45
Initial pH of Leachant 1.347 Final pH of Leachate 0.694
Cation Analysis No. T22-022 Dilution Factor

22 Leachant Replacement Date and Time(d:hr:min) 10/15/99, 9:45
Initial pH of Leachant 1.429 Final pH of Leachate 0.689
Cation Analysis No. T23-022 Dilution Factor

10/15/99

022

23 Leachant Replacement Date and Time(d:hr:min) 10/19/99 9:15
Initial pH of Leachant 1.392 Final pH of Leachate 0.708
Cation Analysis No. T24-022 Dilution Factor

24 Leachant Replacement Date and Time(d:hr:min) 10/26/99 10:00
Initial pH of Leachant 1.464 Final pH of Leachate 0.620
Cation Analysis No. T25-022 Dilution Factor

25 Leachant Replacement Date and Time(d:hr:min) 11/2/99 9:55
Initial pH of Leachant 1.419 Final pH of Leachate 0.669
Cation Analysis No. T26-022 Dilution Factor

26 Leachant Replacement Date and Time(d:hr:min) 11/9/99 9:30
Initial pH of Leachant 1.449 Final pH of Leachate 0.636
Cation Analysis No. T27-022 Dilution Factor

27 Leachant Replacement Date and Time(d:hr:min) 11/16/99 1:00
Initial pH of Leachant 1.363 Final pH of Leachate 0.616
Cation Analysis No. T28-022 Dilution Factor

28 Leachant Replacement Date and Time(d:hr:min) 11/23/99 10:30
Initial pH of Leachant 1.400 Final pH of Leachate 0.593
Cation Analysis No. T29-022 Dilution Factor

29 Leachant Replacement Date and Time(d:hr:min) 11/30/99 10:00
Initial pH of Leachant 1.362 Final pH of Leachate 0.642
Cation Analysis No. T30-022 Dilution Factor

30 Leachant Replacement Date and Time(d:hr:min) 12/9/99 11:15
Initial pH of Leachant 1.412 Final pH of Leachate 0.684
Cation Analysis No. T31-022 Dilution Factor

31 Leachant Replacement Date and Time(d:hr:min) 12/14/99 10:00
Initial pH of Leachant 1.432 Final pH of Leachate 0.661
Cation Analysis No. T32-022 Dilution Factor

32 Leachant Replacement Date and Time(d:hr:min) 12/21/99 10:00
Initial pH of Leachant 1.375 Final pH of Leachate 0.724
Cation Analysis No. T33-022 Dilution Factor

33 Leachant Replacement Date and Time(d:hr:min) 12/28/99 11:15
Initial pH of Leachant 1.435 Final pH of Leachate 0.558
Cation Analysis No. T34-022 Dilution Factor

34 Leachant Replacement Date and Time(d:hr:min) 1/4/00 10:30
Initial pH of Leachant 1.413 Final pH of Leachate 0.580
Cation Analysis No. T35-022 Dilution Factor

35 Leachant Replacement Date and Time(d:hr:min) 1/11/00 10:30
Initial pH of Leachant 1.405 Final pH of Leachate 1.194
Cation Analysis No. T36-022 Dilution Factor

36 Leachant Replacement Date and Time(d:hr:min) 1/18/00 10:50
Initial pH of Leachant 1.409 Final pH of Leachate 0.508
Cation Analysis No. T37-022 Dilution Factor

1/18/00

022

37 Leachant Replacement Date and Time(d:hr:min) 1/25/00 10:45
Initial pH of Leachant 1.369 Final pH of Leachate 0.618
Cation Analysis No. T38-022 Dilution Factor

38 Leachant Replacement Date and Time(d:hr:min) 2/2/00 3 pm
Initial pH of Leachant 1.383 Final pH of Leachate 1.049
Cation Analysis No. T39-022 Dilution Factor

39 Leachant Replacement Date and Time(d:hr:min) 2/15/00 10:30
Initial pH of Leachant 1.301 Final pH of Leachate 0.552
Cation Analysis No. T40-022 Dilution Factor

40 Leachant Replacement Date and Time(d:hr:min) 2/29/00 2:30pm
Initial pH of Leachant 1.403 Final pH of Leachate 0.720
Cation Analysis No. T41-022 Dilution Factor

41 Leachant Replacement Date and Time(d:hr:min) 3/14/00 11:00am
Initial pH of Leachant 1.416 Final pH of Leachate 0.547
Cation Analysis No. T42-022 Dilution Factor

42 Leachant Replacement Date and Time(d:hr:min) 3/28/00 10:00am
Initial pH of Leachant 1.360 Final pH of Leachate 0.494
Cation Analysis No. T43-022 Dilution Factor

43 Leachant Replacement Date and Time(d:hr:min) 4/11/00 2:00 pm
Initial pH of Leachant 1.378 Final pH of Leachate 0.490
Cation Analysis No. T44-022 Dilution Factor

44 Leachant Replacement Date and Time(d:hr:min) 4/25/00 2:00 pm
Initial pH of Leachant 1.412 Final pH of Leachate 0.545
Cation Analysis No. T45-022 Dilution Factor

45 Leachant Replacement Date and Time(d:hr:min) 5/9/00 10:30
Initial pH of Leachant 1.443 Final pH of Leachate 0.621
Cation Analysis No. T46-022 Dilution Factor

46 Leachant Replacement Date and Time(d:hr:min) 5/23/00 2:00pm
Initial pH of Leachant 1.387 Final pH of Leachate 0.493
Cation Analysis No. T47-022 Dilution Factor

47 Leachant Replacement Date and Time(d:hr:min) 6/6/00 10:30
Initial pH of Leachant 1.399 Final pH of Leachate 0.495
Cation Analysis No. T48-022 Dilution Factor

6/6/00

48 Leachant Replacement Date and Time(d:hr:min) 6/20/00 1:00pm
Initial pH of Leachant 1.401 Final pH of Leachate 0.564
Cation Analysis No. T49-022 Dilution Factor

49 Leachant Replacement Date and Time(d:hr:min) 7/5/00 8:30
Initial pH of Leachant 1.385 Final pH of Leachate 0.533
Cation Analysis No. T50-022 Dilution Factor

50 Leachant Replacement Date and Time(d:hr:min) 7/18/00 10:30
Initial pH of Leachant 1.335 Final pH of Leachate 0.515
Cation Analysis No. T51-022 Dilution Factor

8/11/00

LONG-TERM TEST DATA SHEET

Test ID WVNSHF3-T3

Vessel ID No. 023 Batch Cleaning No. 7-21-99

Glass Sample ID WVNS
Sample Weight (g) 3.00002
Sample Preparation Date 07-29-99

Type of Solution 0.25 M FeCl3
Leachant Volume (ml) 30
Initial pH of Leachant 1.339

Weight of Empty Vessel (g) 126.79405
Weight of Vessel + Sample (g) 129.74535
2nd Weight of Sample (Difference of the last two items) (g) 3.0013
Total Weight of Vessel + Sample + Solution (g) 160.31270

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 7/29/99; 2:00PM

Final pH of Leachate 1.888
Cation Analysis No. T1-023 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 8/2/99; 10:40
Initial pH of Leachant 1.400 Final pH of Leachate 1.014
Cation Analysis No. T2-023 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 8/5/99; 9:10
Initial pH of Leachant 1.420 Final pH of Leachate 0.663
Cation Analysis No. T3-023 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 8/9/99; 9:30
Initial pH of Leachant 1.285 Final pH of Leachate 0.647
Cation Analysis No. T4-023 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 8/12/99; 10:00
Initial pH of Leachant 1.272 Final pH of Leachate 0.788
Cation Analysis No. T5-023 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 8/16/99; 9:55
Initial pH of Leachant 1.484 Final pH of Leachate 0.734
Cation Analysis No. T6-023 9/16/99 Dilution Factor

6 Leachant Replacement Date and Time(d:hr:min) 8/19/99; 9:40
Initial pH of Leachant 1.488 Final pH of Leachate 0.731
Cation Analysis No. T7-023 Dilution Factor

7 Leachant Replacement Date and Time(d:hr:min) 8/23/99, 9:30
Initial pH of Leachant 1.443 Final pH of Leachate 0.743
Cation Analysis No. T8-023 Dilution Factor

8 Leachant Replacement Date and Time(d:hr:min) 8/26/99; 8:50
Initial pH of Leachant 1.456 Final pH of Leachate 0.734
Cation Analysis No. T9-023 Dilution Factor

8/26/99

023

9 Leachant Replacement Date and Time(d:hr:min) 8/30/99; 9:50
Initial pH of Leachant 1.477 Final pH of Leachate 0.759
Cation Analysis No. T10-023 Dilution Factor

10 Leachant Replacement Date and Time(d:hr:min) 9/2/99; 9:30
Initial pH of Leachant 1.489 Final pH of Leachate 0.783
Cation Analysis No. T11-023 Dilution Factor

11 Leachant Replacement Date and Time(d:hr:min) 9/6/99; 12:55
Initial pH of Leachant 1.533 Final pH of Leachate 0.758
Cation Analysis No. T12-023 Dilution Factor

12 Leachant Replacement Date and Time(d:hr:min) 9/9/99; 9:15
Initial pH of Leachant 1.484 Final pH of Leachate 0.742
Cation Analysis No. T13-023 Dilution Factor

13 Leachant Replacement Date and Time(d:hr:min) 9/13/99; 8:45
Initial pH of Leachant 1.506 Final pH of Leachate 0.793
Cation Analysis No. T14-023 Dilution Factor

14 Leachant Replacement Date and Time(d:hr:min) 9/16/99; 9:00
Initial pH of Leachant 1.558 Final pH of Leachate 0.778
Cation Analysis No. T15-023 Dilution Factor

15 Leachant Replacement Date and Time(d:hr:min) 9/20/99; 9:00
Initial pH of Leachant 1.545 Final pH of Leachate 0.700
Cation Analysis No. T16-023 Dilution Factor

16 Leachant Replacement Date and Time(d:hr:min) 9/23/99; 9:00
Initial pH of Leachant 1.425 Final pH of Leachate 0.678
Cation Analysis No. T17-023 Dilution Factor

17 Leachant Replacement Date and Time(d:hr:min) 9/27/99; 9:15
Initial pH of Leachant 1.431 Final pH of Leachate 0.699
Cation Analysis No. T18-023 Dilution Factor

18 Leachant Replacement Date and Time(d:hr:min) 9/30/99; 9:45
Initial pH of Leachant 1.433 Final pH of Leachate 0.701
Cation Analysis No. T19-023 Dilution Factor

19 Leachant Replacement Date and Time(d:hr:min) 10/4/99; 9:00
Initial pH of Leachant 1.245 Final pH of Leachate 0.722
Cation Analysis No. T20-023 Dilution Factor

20 Leachant Replacement Date and Time(d:hr:min) 10/8/99; 9:30
Initial pH of Leachant 1.270 Final pH of Leachate 0.689
Cation Analysis No. T21-023 Dilution Factor

21 Leachant Replacement Date and Time(d:hr:min) 10/12/99 9:45
Initial pH of Leachant 1.347 Final pH of Leachate 0.698
Cation Analysis No. T22-023 Dilution Factor

22 Leachant Replacement Date and Time(d:hr:min) 10/15/99; 9:45
Initial pH of Leachant 1.429 Final pH of Leachate 0.690
Cation Analysis No. T23-023 Dilution Factor

10/15/199

023

23 Leachant Replacement Date and Time(d:hr:min) 10/19/99 9:15
Initial pH of Leachant 1.392 Final pH of Leachate 0.718
Cation Analysis No. T24-023 Dilution Factor

24 Leachant Replacement Date and Time(d:hr:min) 10/26/99 10:00
Initial pH of Leachant 1.464 Final pH of Leachate 0.626
Cation Analysis No. T25-023 Dilution Factor

25 Leachant Replacement Date and Time(d:hr:min) 11/2/99 9:55
Initial pH of Leachant 1.419 Final pH of Leachate 0.662
Cation Analysis No. T26-023 Dilution Factor

26 Leachant Replacement Date and Time(d:hr:min) 11/9/99 9:30
Initial pH of Leachant 1.449 Final pH of Leachate 0.638
Cation Analysis No. T27-023 Dilution Factor

27 Leachant Replacement Date and Time(d:hr:min) 11/16/99 1:00
Initial pH of Leachant 1.363 Final pH of Leachate 0.614
Cation Analysis No. T28-023 Dilution Factor

28 Leachant Replacement Date and Time(d:hr:min) 11/23/99 10:30
Initial pH of Leachant 1.400 Final pH of Leachate 0.591
Cation Analysis No. T29-023 Dilution Factor

29 Leachant Replacement Date and Time(d:hr:min) 11/30/99 10:00
Initial pH of Leachant 1.362 Final pH of Leachate 0.618
Cation Analysis No. T30-023 Dilution Factor

30 Leachant Replacement Date and Time(d:hr:min) 12/7/99 11:15
Initial pH of Leachant 1.412 Final pH of Leachate 0.659
Cation Analysis No. T31-023 Dilution Factor

31 Leachant Replacement Date and Time(d:hr:min) 12/14/99 10:00
Initial pH of Leachant 1.432 Final pH of Leachate 0.595
Cation Analysis No. T32-023 Dilution Factor

32 Leachant Replacement Date and Time(d:hr:min) 12/21/99 10:00
Initial pH of Leachant 1.375 Final pH of Leachate 0.598
Cation Analysis No. T33-023 Dilution Factor

33 Leachant Replacement Date and Time(d:hr:min) 12/28/99 11:15
Initial pH of Leachant 1.435 Final pH of Leachate 0.553
Cation Analysis No. T34-023 Dilution Factor

34 Leachant Replacement Date and Time(d:hr:min) 1/4/00 10:30
Initial pH of Leachant 1.413 Final pH of Leachate 0.598
Cation Analysis No. T35-023 Dilution Factor

35 Leachant Replacement Date and Time(d:hr:min) 1/11/00 10:30
Initial pH of Leachant 1.405 Final pH of Leachate 0.642
Cation Analysis No. T36-023 Dilution Factor

36 Leachant Replacement Date and Time(d:hr:min) 1/18/00 10:50
Initial pH of Leachant 1.409 Final pH of Leachate 0.589
Cation Analysis No. T37-023 Dilution Factor

1/18/00

023

37 Leachant Replacement Date and Time(d:hr:min) 1/25/00 10:45
Initial pH of Leachant 1.369 Final pH of Leachate 0.636
Cation Analysis No. T38-023 Dilution Factor

38 Leachant Replacement Date and Time(d:hr:min) 2/2/00 3 pm
Initial pH of Leachant 1.323 Final pH of Leachate 0.695
Cation Analysis No. T39-023 Dilution Factor

39 Leachant Replacement Date and Time(d:hr:min) 2/15/00 10:30
Initial pH of Leachant 1.301 Final pH of Leachate 0.596
Cation Analysis No. T40-023 Dilution Factor

40 Leachant Replacement Date and Time(d:hr:min) 2/28/00 2:30pm
Initial pH of Leachant 1.403 Final pH of Leachate 0.703
Cation Analysis No. T41-023 Dilution Factor

41 Leachant Replacement Date and Time(d:hr:min) 3/14/00 11:00am
Initial pH of Leachant 1.416 Final pH of Leachate 0.566
Cation Analysis No. T42-023 Dilution Factor

42 Leachant Replacement Date and Time(d:hr:min) 3/28/00 10:00am
Initial pH of Leachant 1.360 Final pH of Leachate 0.557
Cation Analysis No. T43-023 Dilution Factor

43 Leachant Replacement Date and Time(d:hr:min) 4/11/00 2:00 pm
Initial pH of Leachant 1.378 Final pH of Leachate 0.602
Cation Analysis No. T44-023 Dilution Factor

44 Leachant Replacement Date and Time(d:hr:min) 4/25/00 2:00 pm
Initial pH of Leachant 1.442 Final pH of Leachate 0.523
Cation Analysis No. T45-023 Dilution Factor

45 Leachant Replacement Date and Time(d:hr:min) 5/9/00 10:30
Initial pH of Leachant 1.443 Final pH of Leachate 0.528
Cation Analysis No. T46-023 Dilution Factor

46 Leachant Replacement Date and Time(d:hr:min) 5/23/00 2:00pm
Initial pH of Leachant 1.387 Final pH of Leachate 0.495
Cation Analysis No. T47-023 Dilution Factor

47 Leachant Replacement Date and Time(d:hr:min) 6/6/00 10:30
Initial pH of Leachant 1.399 Final pH of Leachate 0.496
Cation Analysis No. T48-023 Dilution Factor

6/6/00

48 Leachant Replacement Date and Time(d:hr:min) 6/20/00 1:00pm
Initial pH of Leachant 1.401 Final pH of Leachate 0.538
Cation Analysis No. T49-023 Dilution Factor

49 Leachant Replacement Date and Time(d:hr:min) 7/5/00 8:30
Initial pH of Leachant 1.385 Final pH of Leachate 0.533
Cation Analysis No. T50-023 Dilution Factor

50 Leachant Replacement Date and Time(d:hr:min) 7/18/00 10:30
Initial pH of Leachant 1.335 Final pH of Leachate 0.518
Cation Analysis No. T51-023 Dilution Factor

8/11/00

LONG-TERM TEST DATA SHEET

Test ID SRSLF2-T1

Vessel ID No. 024 Batch Cleaning No. 7-21-99

Glass Sample ID SRS
Sample Weight (g) 3.00066
Sample Preparation Date 7-26-99

Type of Solution 0.0025 M $FeCl_2$
Leachant Volume (ml) 30
Initial pH of Leachant 3.949

Weight of Empty Vessel (g) 126.81395
Weight of Vessel + Sample (g) 129.83130
2nd Weight of Sample (Difference of the last two items) (g) 3.01735
Total Weight of Vessel + Sample + Solution (g) 159.42885

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 7/27/99; 10:20

Final pH of Leachate 8.998
Cation Analysis No. T1-024 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 7/30/99; 9:50
Initial pH of Leachant 3.867 Final pH of Leachate 8.715
Cation Analysis No. T2-024 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 8/3/99; 9:15
Initial pH of Leachant 3.854 Final pH of Leachate 8.250
Cation Analysis No. T3-024 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 8/6/99; 10:05
Initial pH of Leachant 3.752 Final pH of Leachate 8.189
Cation Analysis No. T4-024 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 8/10/99; 10:25
Initial pH of Leachant 3.650 Final pH of Leachate 7.770
Cation Analysis No. T5-024 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 8/13/99; 10:15
Initial pH of Leachant 3.784 Final pH of Leachate 7.556
Cation Analysis No. T6-024 Dilution Factor

6 Leachant Replacement Date and Time(d:hr:min) 8/17/99; 10:12
Initial pH of Leachant 3.750 Final pH of Leachate 6.507
Cation Analysis No. T7-024 Dilution Factor

7 Leachant Replacement Date and Time(d:hr:min) 8/20/99; 8:50
Initial pH of Leachant 3.686 Final pH of Leachate 7.085
Cation Analysis No. T8-024 Dilution Factor

8 Leachant Replacement Date and Time(d:hr:min) 8/24/99; 9:00
Initial pH of Leachant 3.645 Final pH of Leachate 6.265
Cation Analysis No. T9-024 Dilution Factor

8/25/99

024

9 Leachant Replacement Date and Time(d:hr:min) 8/27/99; 8:45
Initial pH of Leachant 3.675 Final pH of Leachate 6.773
Cation Analysis No. T10-024 Dilution Factor

10 Leachant Replacement Date and Time(d:hr:min) 8/31/99; 9:30
Initial pH of Leachant 4.308 Final pH of Leachate 6.502
Cation Analysis No. T11-024 Dilution Factor

11 Leachant Replacement Date and Time(d:hr:min) 9/3/99; 9:30
Initial pH of Leachant 4.208 Final pH of Leachate 6.297
Cation Analysis No. T12-024 Dilution Factor

12 Leachant Replacement Date and Time(d:hr:min) 9/7/99; 9:00
Initial pH of Leachant 4.070 Final pH of Leachate 6.478
Cation Analysis No. T13-024 Dilution Factor

13 Leachant Replacement Date and Time(d:hr:min) 9/10/99; 10.00
Initial pH of Leachant ~~6.7~~ 3.927 Final pH of Leachate 6.108
Cation Analysis No. T14-024 Dilution Factor

14 Leachant Replacement Date and Time(d:hr:min) 9/14/99; 9:15
Initial pH of Leachant 3.916 Final pH of Leachate 5.678
Cation Analysis No. T15-024 Dilution Factor

15 Leachant Replacement Date and Time(d:hr:min) 9/17/99; 9:00
Initial pH of Leachant 3.958 Final pH of Leachate 5.813
Cation Analysis No. T16-024 Dilution Factor

16 Leachant Replacement Date and Time(d:hr:min) 9/21/99; 10:00
Initial pH of Leachant 3.920 Final pH of Leachate 6.120
Cation Analysis No. T17-024 Dilution Factor

17 Leachant Replacement Date and Time(d:hr:min) 9/24/99; 10:30
Initial pH of Leachant 3.697 Final pH of Leachate 5.665
Cation Analysis No. T18-024 Dilution Factor

18 Leachant Replacement Date and Time(d:hr:min) 9/28/99; 9:30
Initial pH of Leachant 3.705 Final pH of Leachate 5.718
Cation Analysis No. Dilution Factor

19 Leachant Replacement Date and Time(d:hr:min) 10/1/99; 9:30
Initial pH of Leachant 3.650 Final pH of Leachate 6.276
Cation Analysis No. T20-024 Dilution Factor

20 Leachant Replacement Date and Time(d:hr:min) 10/5/99; 9:30
Initial pH of Leachant 3.815 Final pH of Leachate 6.312
Cation Analysis No. T21-024 Dilution Factor

21 Leachant Replacement Date and Time(d:hr:min) 10/8/99; 9:30
Initial pH of Leachant 3.799 Final pH of Leachate 4.270
Cation Analysis No. T22-024 Dilution Factor

22 Leachant Replacement Date and Time(d:hr:min) 10/12/99 9:45
Initial pH of Leachant 3.925 Final pH of Leachate 5.853
Cation Analysis No. T23-024 Dilution Factor

10/14/99

024

23 Leachant Replacement Date and Time(d:hr:min) 10/15/99 9:45
Initial pH of Leachant 3.847 Final pH of Leachate 5.414 ← Removed 10/19/99
Cation Analysis No. T24-024 Dilution Factor

24 Leachant Replacement Date and Time(d:hr:min) 10/26/99 10:00
Initial pH of Leachant 3.806 Final pH of Leachate 6.210
Cation Analysis No. T25-024 Dilution Factor

25 Leachant Replacement Date and Time(d:hr:min) 11/2/99 9:55
Initial pH of Leachant 3.790 Final pH of Leachate 6.186
Cation Analysis No. T26-024 Dilution Factor

26 Leachant Replacement Date and Time(d:hr:min) 11/9/99 9:30
Initial pH of Leachant 3.722 Final pH of Leachate 6.225
Cation Analysis No. T27-024 Dilution Factor

27 Leachant Replacement Date and Time(d:hr:min) 11/16/99 1:00
Initial pH of Leachant 3.618 Final pH of Leachate 6.156
Cation Analysis No. T28-024 Dilution Factor

28 Leachant Replacement Date and Time(d:hr:min) 11/23/99 10:30
Initial pH of Leachant 3.563 Final pH of Leachate 5.700
Cation Analysis No. T29-024 Dilution Factor

29 Leachant Replacement Date and Time(d:hr:min) 11/30/99 10:00
Initial pH of Leachant 3.605 Final pH of Leachate 5.303
Cation Analysis No. T30-024 Dilution Factor

30 Leachant Replacement Date and Time(d:hr:min) 12/7/99 11:15
Initial pH of Leachant 4.145 Final pH of Leachate 5.314
Cation Analysis No. T31-024 Dilution Factor

31 Leachant Replacement Date and Time(d:hr:min) 12/14/99 10:00
Initial pH of Leachant 3.760 Final pH of Leachate 4.270
Cation Analysis No. T32-024 Dilution Factor

32 Leachant Replacement Date and Time(d:hr:min) 12/21/99 10:00
Initial pH of Leachant 3.759 Final pH of Leachate 4.656
Cation Analysis No. T33-024 Dilution Factor

33 Leachant Replacement Date and Time(d:hr:min) 12/28/99 11:15
Initial pH of Leachant 3.819 Final pH of Leachate 4.366
Cation Analysis No. T34-024 Dilution Factor

34 Leachant Replacement Date and Time(d:hr:min) 1/4/00 10:30
Initial pH of Leachant 3.762 Final pH of Leachate 4.538
Cation Analysis No. T35-024 Dilution Factor

35 Leachant Replacement Date and Time(d:hr:min) 1/11/00 10:30
Initial pH of Leachant 3.705 Final pH of Leachate 4.821
Cation Analysis No. T36-024 Dilution Factor

36 Leachant Replacement Date and Time(d:hr:min) 1/18/00 10:50
Initial pH of Leachant 3.693 Final pH of Leachate 3.981
Cation Analysis No. T37-024 Dilution Factor

JJ Pa 1/20/00

024

37 Leachant Replacement Date and Time(d:hr:min) 1/25/00 10:45
Initial pH of Leachant 3.627 Final pH of Leachate 5.064
Cation Analysis No. T38-024 Dilution Factor

38 Leachant Replacement Date and Time(d:hr:min) 2/2/00 3pm
Initial pH of Leachant 3.531 Final pH of Leachate 5.325
Cation Analysis No. T39-024 Dilution Factor

39 Leachant Replacement Date and Time(d:hr:min) 2/15/00 10:30
Initial pH of Leachant 3.497 Final pH of Leachate 5.331
Cation Analysis No. T40-024 Dilution Factor

40 Leachant Replacement Date and Time(d:hr:min) 2/29/00 2:30pm
Initial pH of Leachant 4.177 Final pH of Leachate 5.352
Cation Analysis No. T41-024 Dilution Factor

41 Leachant Replacement Date and Time(d:hr:min) 3/14/00 11:00am
Initial pH of Leachant 3.861 Final pH of Leachate 5.034
Cation Analysis No. T42-024 Dilution Factor

42 Leachant Replacement Date and Time(d:hr:min) 3/28/00 10:00am
Initial pH of Leachant 3.586 Final pH of Leachate 5.926
Cation Analysis No. T43-024 Dilution Factor

43 Leachant Replacement Date and Time(d:hr:min) 4/11/00 2:00pm
Initial pH of Leachant 3.586 Final pH of Leachate 4.920
Cation Analysis No. T44-024 Dilution Factor

44 Leachant Replacement Date and Time(d:hr:min) 4/25/00 2:00pm
Initial pH of Leachant 3.589 Final pH of Leachate 5.780
Cation Analysis No. T45-024 Dilution Factor

45 Leachant Replacement Date and Time(d:hr:min) 5/9/00 10:30
Initial pH of Leachant 3.578 Final pH of Leachate ~~5.779~~ 5.720 JJP 5/24/00
Cation Analysis No. T46-024 Dilution Factor

46 Leachant Replacement Date and Time(d:hr:min) 5/23/00 2:00pm
Initial pH of Leachant 3.444 Final pH of Leachate 5.779
Cation Analysis No. T47-024 Dilution Factor

47 Leachant Replacement Date and Time(d:hr:min) 6/6/00 10:30
Initial pH of Leachant 3.467 Final pH of Leachate 5.779 JJ Pa 6/6/00
Cation Analysis No. T48-024 Dilution Factor

48 Leachant Replacement Date and Time(d:hr:min) 6/20/00 1:00pm
Initial pH of Leachant 3.430 Final pH of Leachate 5.628
Cation Analysis No. T49-024 Dilution Factor

49 Leachant Replacement Date and Time(d:hr:min) 7/5/00 8:30
Initial pH of Leachant 3.425 Final pH of Leachate 5.891
Cation Analysis No. T50-024 Dilution Factor

50 Leachant Replacement Date and Time(d:hr:min) 7/18/00 10:30
Initial pH of Leachant 3.410 Final pH of Leachate 5.189
Cation Analysis No. T51-024 Dilution Factor

JJ Pa 8/11/00

LONG-TERM TEST DATA SHEET

Test ID SRS LF2-T2

Vessel ID No. 025 Batch Cleaning No. 7-21-99

Glass Sample ID SRS
Sample Weight (g) 3.00015
Sample Preparation Date 7-26-99

Type of Solution 0.0025 M $FeCl_2$
Leachant Volume (ml) 30
Initial pH of Leachant 3.949

Weight of Empty Vessel (g) 127.13865
Weight of Vessel + Sample (g) 130.16055
2nd Weight of Sample (Difference of the last two items) (g) 3.02190
Total Weight of Vessel + Sample + Solution (g) 159.83625

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 7/27/99; 10:20

Final pH of Leachate 9.005
Cation Analysis No. T1-025 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 7/30/99; 9:50
Initial pH of Leachant 3.867 Final pH of Leachate 8.733
Cation Analysis No. T2-025 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 8/3/99; 9:15
Initial pH of Leachant 3.854 Final pH of Leachate 8.288
Cation Analysis No. T3-025 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 8/6/99; 10:05
Initial pH of Leachant 3.752 Final pH of Leachate 8.207
Cation Analysis No. T4-025 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 8/10/99; 10:25
Initial pH of Leachant 3.650 Final pH of Leachate 7.607
Cation Analysis No. T5-025 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 8/13/99; 10:15
Initial pH of Leachant 3.784 Final pH of Leachate 7.480
Cation Analysis No. T6-025 Dilution Factor

6 Leachant Replacement Date and Time(d:hr:min) 8/17/99; 10:12
Initial pH of Leachant 3.750 Final pH of Leachate 6.397
Cation Analysis No. T7-025 Dilution Factor

7 Leachant Replacement Date and Time(d:hr:min) 8/20/99; 8:50
Initial pH of Leachant 3.686 Final pH of Leachate 7.076
Cation Analysis No. T8-025 Dilution Factor

8 Leachant Replacement Date and Time(d:hr:min) 8/24/99; 9:00
Initial pH of Leachant 3.695 Final pH of Leachate 6.352
Cation Analysis No. T9-025 Dilution Factor

8/26/99

025

9 Leachant Replacement Date and Time(d:hr:min) 8/27/99; 8:45
Initial pH of Leachant 3.675 Final pH of Leachate 6.734
Cation Analysis No. T10-025 Dilution Factor

10 Leachant Replacement Date and Time(d:hr:min) 8/31/99; 9:30
Initial pH of Leachant 4.328 Final pH of Leachate 6.457
Cation Analysis No. T11-025 Dilution Factor

11 Leachant Replacement Date and Time(d:hr:min) 9/3/99; 9:30
Initial pH of Leachant 4.208 Final pH of Leachate 6.424
Cation Analysis No. T12-025 Dilution Factor

12 Leachant Replacement Date and Time(d:hr:min) 9/7/99; 9:00
Initial pH of Leachant 4.070 Final pH of Leachate 6.413
Cation Analysis No. T13-025 Dilution Factor

13 Leachant Replacement Date and Time(d:hr:min) 9/10/99; 10:00
Initial pH of Leachant 3.927 Final pH of Leachate 6.168
Cation Analysis No. T14-025 Dilution Factor

14 Leachant Replacement Date and Time(d:hr:min) 9/14/99; 9:15
Initial pH of Leachant 3.916 Final pH of Leachate 5.658
Cation Analysis No. T15-025 Dilution Factor

15 Leachant Replacement Date and Time(d:hr:min) 9/17/99; 9:00
Initial pH of Leachant 3.956 Final pH of Leachate 5.942
Cation Analysis No. T16-025 Dilution Factor

16 Leachant Replacement Date and Time(d:hr:min) 9/21/99; 10:00
Initial pH of Leachant 3.920 Final pH of Leachate 6.096
Cation Analysis No. T17-025 Dilution Factor

17 Leachant Replacement Date and Time(d:hr:min) 9/24/99; 10:30
Initial pH of Leachant 3.697 Final pH of Leachate 5.800
Cation Analysis No. T18-025 Dilution Factor

18 Leachant Replacement Date and Time(d:hr:min) 9/28/99; 9:30
Initial pH of Leachant 3.705 Final pH of Leachate 5.833
Cation Analysis No. T19-025 Dilution Factor

19 Leachant Replacement Date and Time(d:hr:min) 10/1/99; 9:30
Initial pH of Leachant 3.650 Final pH of Leachate 6.032
Cation Analysis No. T20-025 Dilution Factor

20 Leachant Replacement Date and Time(d:hr:min) 10/5/99; 9:30
Initial pH of Leachant 3.815 Final pH of Leachate 6.183
Cation Analysis No. T21-025 Dilution Factor

21 Leachant Replacement Date and Time(d:hr:min) 10/8/99; 9:30
Initial pH of Leachant 3.799 Final pH of Leachate 5.754
Cation Analysis No. T22-025 Dilution Factor

22 Leachant Replacement Date and Time(d:hr:min) 10/12/99 9:45
Initial pH of Leachant 3.925 Final pH of Leachate 5.853
Cation Analysis No. T23-025 Dilution Factor

10/14/99

025

23 Leachant Replacement Date and Time(d:hr:min) 10/15/99 9:45
Initial pH of Leachant 3.847 Final pH of Leachate 5.765
Cation Analysis No. T24-025 Dilution Factor

24 Leachant Replacement Date and Time(d:hr:min) 10/26/99 10:00
Initial pH of Leachant 3.806 Final pH of Leachate 6.473
Cation Analysis No. T25-025 Dilution Factor

25 Leachant Replacement Date and Time(d:hr:min) 11/2/99 9:55
Initial pH of Leachant 3.790 Final pH of Leachate 6.811
Cation Analysis No. T26-025 Dilution Factor

26 Leachant Replacement Date and Time(d:hr:min) 11/9/99 9:30
Initial pH of Leachant 3.722 Final pH of Leachate 6.561
Cation Analysis No. T27-025 Dilution Factor

27 Leachant Replacement Date and Time(d:hr:min) 11/16/99 1:00
Initial pH of Leachant 3.618 Final pH of Leachate 6.250
Cation Analysis No. T28-025 Dilution Factor

28 Leachant Replacement Date and Time(d:hr:min) 11/23/99 10:30
Initial pH of Leachant 3.563 Final pH of Leachate 5.975
Cation Analysis No. T29-025 Dilution Factor

29 Leachant Replacement Date and Time(d:hr:min) 11/30/99 10:00
Initial pH of Leachant 3.605 Final pH of Leachate 5.895
Cation Analysis No. T30-025 Dilution Factor

30 Leachant Replacement Date and Time(d:hr:min) 12/7/99 11:15
Initial pH of Leachant 4.145 Final pH of Leachate 5.685
Cation Analysis No. T31-025 Dilution Factor

31 Leachant Replacement Date and Time(d:hr:min) 12/14/99 10:00
Initial pH of Leachant 3.760 Final pH of Leachate 5.220
Cation Analysis No. T32-025 Dilution Factor

32 Leachant Replacement Date and Time(d:hr:min) 12/21/99 10:00
Initial pH of Leachant 3.759 Final pH of Leachate 5.779
Cation Analysis No. T33-025 Dilution Factor

33 Leachant Replacement Date and Time(d:hr:min) 12/28/99 11:15
Initial pH of Leachant 3.819 Final pH of Leachate 5.388
Cation Analysis No. T34-025 Dilution Factor

34 Leachant Replacement Date and Time(d:hr:min) 1/4/00 10:30
Initial pH of Leachant 3.762 Final pH of Leachate 5.431
Cation Analysis No. T35-025 Dilution Factor

35 Leachant Replacement Date and Time(d:hr:min) 1/11/00 10:30
Initial pH of Leachant 3.705 Final pH of Leachate 5.517
Cation Analysis No. T36-025 Dilution Factor

36 Leachant Replacement Date and Time(d:hr:min) 1/18/00 10:50
Initial pH of Leachant 3.693 Final pH of Leachate 5.658
Cation Analysis No. T37-025 Dilution Factor

1/20/00

025

37 Leachant Replacement Date and Time(d:hr:min) 1/25/00 10:45
Initial pH of Leachant 3.627 Final pH of Leachate 5.670
Cation Analysis No. T38-025 Dilution Factor

38 Leachant Replacement Date and Time(d:hr:min) 2/2/00 3pm
Initial pH of Leachant 3.591 Final pH of Leachate 5.976
Cation Analysis No. T39-025 Dilution Factor

39 Leachant Replacement Date and Time(d:hr:min) 2/15/00 10:30
Initial pH of Leachant 3.497 Final pH of Leachate 6.616
Cation Analysis No. T40-025 Dilution Factor

40 Leachant Replacement Date and Time(d:hr:min) 2/29/00 2:30pm
Initial pH of Leachant 4.177 Final pH of Leachate 6.260
Cation Analysis No. T41-025 Dilution Factor

41 Leachant Replacement Date and Time(d:hr:min) 3/14/00 11:00am
Initial pH of Leachant 3.861 Final pH of Leachate 5.922
Cation Analysis No. T42-025 Dilution Factor

42 Leachant Replacement Date and Time(d:hr:min) 3/28/00 10:00am
Initial pH of Leachant 3.586 Final pH of Leachate 6.134
Cation Analysis No. T43-025 Dilution Factor

43 Leachant Replacement Date and Time(d:hr:min) 4/11/00 2:00 pm
Initial pH of Leachant 3.586 Final pH of Leachate 5.929
Cation Analysis No. T44-025 Dilution Factor

44 Leachant Replacement Date and Time(d:hr:min) 4/25/00 2:00 pm
Initial pH of Leachant 3.589 Final pH of Leachate 5.867
Cation Analysis No. T45-025 Dilution Factor

45 Leachant Replacement Date and Time(d:hr:min) 5/9/00 10:30
Initial pH of Leachant 3.578 Final pH of Leachate 5.915
Cation Analysis No. T46-025 Dilution Factor

46 Leachant Replacement Date and Time(d:hr:min) 5/23/00 2:00pm
Initial pH of Leachant 3.444 Final pH of Leachate 5.885
Cation Analysis No. T47-025 Dilution Factor

47 Leachant Replacement Date and Time(d:hr:min) 6/6/00 10:30
Initial pH of Leachant 3.467 Final pH of Leachate 5.896
Cation Analysis No. T48-025 Dilution Factor

6/6/00

48 Leachant Replacement Date and Time(d:hr:min) 6/20/00 1:00pm
Initial pH of Leachant 3.430 Final pH of Leachate 6.042
Cation Analysis No. T49-025 Dilution Factor

49 Leachant Replacement Date and Time(d:hr:min) 7/5/00 8:30
Initial pH of Leachant 3.425 Final pH of Leachate 6.028
Cation Analysis No. T50-025 Dilution Factor

50 Leachant Replacement Date and Time(d:hr:min) 7/18/00 10:30
Initial pH of Leachant 3.410 Final pH of Leachate 5.664
Cation Analysis No. T51-025 Dilution Factor

8/11/00

LONG-TERM TEST DATA SHEET

Test ID SRSLF2 - T3

Vessel ID No. 026 Batch Cleaning No. 7-21-99

Glass Sample ID SRS
Sample Weight (g) 3.00042
Sample Preparation Date 7-26-99

Type of Solution 0.0025 M $FeCl_2$
Leachant Volume (ml) 30
Initial pH of Leachant 3.949

Weight of Empty Vessel (g) 126.45490
Weight of Vessel + Sample (g) 129.47900
2nd Weight of Sample (Difference of the last two items) (g) 3.02410
Total Weight of Vessel + Sample + Solution (g) 158.99900

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 7/27/99; 10:20

Final pH of Leachate 9.003
Cation Analysis No. T1-026 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 7/30/99; 9:50
Initial pH of Leachant 3.867 Final pH of Leachate 8.724
Cation Analysis No. T2-026 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 8/3/99; 9:15
Initial pH of Leachant 3.854 Final pH of Leachate 8.255
Cation Analysis No. T3-026 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 8/6/99; 10:05
Initial pH of Leachant 3.752 Final pH of Leachate 8.189
Cation Analysis No. T4-026 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 8/10/99; 10:25
Initial pH of Leachant 3.650 Final pH of Leachate 7.593
Cation Analysis No. T5-026 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 8/13/99; 10:15
Initial pH of Leachant 3.784 Final pH of Leachate 7.656
Cation Analysis No. T6-026 Dilution Factor

6 Leachant Replacement Date and Time(d:hr:min) 8/17/99; 10:12
Initial pH of Leachant 3.750 Final pH of Leachate 6.695
Cation Analysis No. T7-026 Dilution Factor

7 Leachant Replacement Date and Time(d:hr:min) 8/20/99; 8:50
Initial pH of Leachant 3.686 Final pH of Leachate 7.014
Cation Analysis No. T8-026 Dilution Factor

8 Leachant Replacement Date and Time(d:hr:min) 8/24/99; 9:00
Initial pH of Leachant 3.695 Final pH of Leachate 6.367
Cation Analysis No. T9-026 Dilution Factor

8/26/99

026

9 Leachant Replacement Date and Time(d:hr:min) 8/27/99; 8:45
Initial pH of Leachant 3.675 Final pH of Leachate ~~6.866~~ 6.752 8/31/99
Cation Analysis No. T10-026 Dilution Factor

10 Leachant Replacement Date and Time(d:hr:min) 8/31/99; 9:30
Initial pH of Leachant 4.308 Final pH of Leachate 6.350
Cation Analysis No. T11-026 Dilution Factor

11 Leachant Replacement Date and Time(d:hr:min) 9/3/99; 9:30
Initial pH of Leachant 4.208 Final pH of Leachate 6.402
Cation Analysis No. T12-026 Dilution Factor

12 Leachant Replacement Date and Time(d:hr:min) 9/7/99; 9:00
Initial pH of Leachant 4.070 Final pH of Leachate 6.266
Cation Analysis No. T13-026 Dilution Factor

13 Leachant Replacement Date and Time(d:hr:min) 9/10/99; 10:00
Initial pH of Leachant 3.927 Final pH of Leachate 6.196
Cation Analysis No. T14-026 Dilution Factor

14 Leachant Replacement Date and Time(d:hr:min) 9/14/99; 9:15
Initial pH of Leachant 3.916 Final pH of Leachate 5.775
Cation Analysis No. T15-026 Dilution Factor

15 Leachant Replacement Date and Time(d:hr:min) 9/17/99; 9:00
Initial pH of Leachant 3.950 Final pH of Leachate 6.020
Cation Analysis No. T16-026 Dilution Factor

16 Leachant Replacement Date and Time(d:hr:min) 9/21/99; 10:00
Initial pH of Leachant 3.920 Final pH of Leachate 6.049
Cation Analysis No. T17-026 Dilution Factor

17 Leachant Replacement Date and Time(d:hr:min) 9/24/99; 10:30
Initial pH of Leachant 3.697 Final pH of Leachate 5.812
Cation Analysis No. T18-026 Dilution Factor

18 Leachant Replacement Date and Time(d:hr:min) 9/28/99; 9:30
Initial pH of Leachant 3.705 Final pH of Leachate 5.584
Cation Analysis No. T19-026 Dilution Factor

19 Leachant Replacement Date and Time(d:hr:min) 10/1/99; 9:30
Initial pH of Leachant 3.650 Final pH of Leachate 6.162
Cation Analysis No. T20-026 Dilution Factor

20 Leachant Replacement Date and Time(d:hr:min) 10/5/99; 9:30
Initial pH of Leachant 3.815 Final pH of Leachate 6.177
Cation Analysis No. T21-026 Dilution Factor

21 Leachant Replacement Date and Time(d:hr:min) 10/8/99; 9:30
Initial pH of Leachant 3.799 Final pH of Leachate 5.665
Cation Analysis No. T22-026 Dilution Factor

22 Leachant Replacement Date and Time(d:hr:min) 10/12/99 9:45
Initial pH of Leachant 3.925 Final pH of Leachate 5.826
Cation Analysis No. T23-026 Dilution Factor

10/14/99

026

23 Leachant Replacement Date and Time(d:hr:min) 10/15/99 9:45
Initial pH of Leachant 3.847 Final pH of Leachate 5.883
Cation Analysis No. T24-026 Dilution Factor

24 Leachant Replacement Date and Time(d:hr:min) 10/26/99 10:00
Initial pH of Leachant 3.806 Final pH of Leachate 6.518
Cation Analysis No. T25-026 Dilution Factor

25 Leachant Replacement Date and Time(d:hr:min) 11/2/99 9:55
Initial pH of Leachant 3.790 Final pH of Leachate 6.788
Cation Analysis No. T26-026 Dilution Factor

26 Leachant Replacement Date and Time(d:hr:min) 11/9/99 9:30
Initial pH of Leachant 3.722 Final pH of Leachate 6.583
Cation Analysis No. T27-026 Dilution Factor

27 Leachant Replacement Date and Time(d:hr:min) 11/16/99 1:00
Initial pH of Leachant 3.618 Final pH of Leachate 6.261
Cation Analysis No. T28-026 Dilution Factor

28 Leachant Replacement Date and Time(d:hr:min) 11/23/99 10:30
Initial pH of Leachant 3.563 Final pH of Leachate 6.045
Cation Analysis No. T29-026 Dilution Factor

29 Leachant Replacement Date and Time(d:hr:min) 11/30/99 10:00
Initial pH of Leachant 3.605 Final pH of Leachate 5.935
Cation Analysis No. T30-026 Dilution Factor

30 Leachant Replacement Date and Time(d:hr:min) 12/7/99 11:15
Initial pH of Leachant 4.145 Final pH of Leachate 5.783
Cation Analysis No. T31-026 Dilution Factor

31 Leachant Replacement Date and Time(d:hr:min) 12/14/99 10:00
Initial pH of Leachant 3.760 Final pH of Leachate 5.434
Cation Analysis No. T32-026 Dilution Factor

32 Leachant Replacement Date and Time(d:hr:min) 12/21/99 10:00
Initial pH of Leachant 3.759 Final pH of Leachate 5.835
Cation Analysis No. T33-026 Dilution Factor

33 Leachant Replacement Date and Time(d:hr:min) 12/28/99 11:15
Initial pH of Leachant 3.819 Final pH of Leachate 5.618
Cation Analysis No. T34-026 Dilution Factor

34 Leachant Replacement Date and Time(d:hr:min) 1/4/00 10:30
Initial pH of Leachant 3.762 Final pH of Leachate 5.622
Cation Analysis No. T35-026 Dilution Factor

35 Leachant Replacement Date and Time(d:hr:min) 1/11/00 10:30
Initial pH of Leachant 3.705 Final pH of Leachate 5.667
Cation Analysis No. T36-026 Dilution Factor

36 Leachant Replacement Date and Time(d:hr:min) 1/18/00 10:50
Initial pH of Leachant 3.693 Final pH of Leachate 5.879
Cation Analysis No. T37-026 Dilution Factor

1/20/00

026

37 Leachant Replacement Date and Time(d:hr:min) 1/25/00 10:45
Initial pH of Leachant 3.627 Final pH of Leachate 5.680
Cation Analysis No. T38-026 Dilution Factor

38 Leachant Replacement Date and Time(d:hr:min) 2/2/00 3pm
Initial pH of Leachant 3.531 Final pH of Leachate 6.153
Cation Analysis No. T39-026 Dilution Factor

39 Leachant Replacement Date and Time(d:hr:min) 2/15/00 10:30
Initial pH of Leachant 3.497 Final pH of Leachate 6.535
Cation Analysis No. T40-026 Dilution Factor

40 Leachant Replacement Date and Time(d:hr:min) 2/29/00 2:30pm
Initial pH of Leachant 4.177 Final pH of Leachate 6.555
Cation Analysis No. T41-026 Dilution Factor

41 Leachant Replacement Date and Time(d:hr:min) 3/14/00 11:00 am
Initial pH of Leachant 3.861 Final pH of Leachate 6.096
Cation Analysis No. T42-026 Dilution Factor

42 Leachant Replacement Date and Time(d:hr:min) 3/28/00 10:00 am
Initial pH of Leachant 3.586 Final pH of Leachate 6.145
Cation Analysis No. T43-026 Dilution Factor

43 Leachant Replacement Date and Time(d:hr:min) 4/11/00 2:00 pm
Initial pH of Leachant 3.586 Final pH of Leachate 5.819
Cation Analysis No. T44-026 Dilution Factor

44 Leachant Replacement Date and Time(d:hr:min) 4/25/00 2.00 pm
Initial pH of Leachant 3.589 Final pH of Leachate 5.875
Cation Analysis No. T45-026 Dilution Factor

45 Leachant Replacement Date and Time(d:hr:min) 5/9/00 10:30
Initial pH of Leachant 3.578 Final pH of Leachate 5.935
Cation Analysis No. T46-026 Dilution Factor

46 Leachant Replacement Date and Time(d:hr:min) 5/23/00 2:00pm
Initial pH of Leachant 3.444 Final pH of Leachate 5.906
Cation Analysis No. T47-026 Dilution Factor

47 Leachant Replacement Date and Time(d:hr:min) 6/6/00 10:30
Initial pH of Leachant 3.467 Final pH of Leachate 5.886
Cation Analysis No. T48-026 Dilution Factor

6/6/00

48 Leachant Replacement Date and Time(d:hr:min) 6/20/00 1:00pm
Initial pH of Leachant 3.430 Final pH of Leachate 5.892
Cation Analysis No. T49-026 Dilution Factor

49 Leachant Replacement Date and Time(d:hr:min) 7/5/00 8:30
Initial pH of Leachant 3.425 Final pH of Leachate 5.923
Cation Analysis No. T50-026 Dilution Factor

50 Leachant Replacement Date and Time(d:hr:min) 7/18/00 10:30
Initial pH of Leachant 3.410 Final pH of Leachate 5.822
Cation Analysis No. T51-026 Dilution Factor

8/11/00

LONG-TERM TEST DATA SHEET

Test ID WVNSLF2-T1

Vessel ID No. 027 Batch Cleaning No. 7-21-99

Glass Sample ID WVNS
Sample Weight (g) 2.99778
Sample Preparation Date 7-26-99

Type of Solution 0.0025 M $FeCl_2$
Leachant Volume (ml) 30
Initial pH of Leachant 3.949

Weight of Empty Vessel (g) 126.88470
Weight of Vessel + Sample (g) 129.87490
2nd Weight of Sample (Difference of the last two items) (g) 2.99020
Total Weight of Vessel + Sample + Solution (g) 157.38200

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 7/27/99; 10:20

Final pH of Leachate 9.345
Cation Analysis No. T1-027 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 7/30/99; 9:50
Initial pH of Leachant 3.867 Final pH of Leachate 9.284
Cation Analysis No. T2-027 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 8/3/99; 9:15
Initial pH of Leachant 3.854 Final pH of Leachate 8.920
Cation Analysis No. T3-027 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 8/6/99; 10:05
Initial pH of Leachant 3.752 Final pH of Leachate 8.948
Cation Analysis No. T4-027 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 8/10/99; 10:25
Initial pH of Leachant 3.650 Final pH of Leachate 8.693
Cation Analysis No. T5-027 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 8/13/99; 10:15
Initial pH of Leachant 3.784 Final pH of Leachate 8.673
Cation Analysis No. T6-027 Dilution Factor

6 Leachant Replacement Date and Time(d:hr:min) 8/17/99; 10:2
Initial pH of Leachant 3.750 Final pH of Leachate 8.412
Cation Analysis No. T7-027 Dilution Factor

7 Leachant Replacement Date and Time(d:hr:min) 8/20/99; 8:50
Initial pH of Leachant 3.686 Final pH of Leachate 8.572
Cation Analysis No. T8-027 Dilution Factor

8 Leachant Replacement Date and Time(d:hr:min) 8/24/99; 9:00
Initial pH of Leachant 3.695 Final pH of Leachate 8.268
Cation Analysis No. T9-027 Dilution Factor

8/26/99

027

9 Leachant Replacement Date and Time(d:hr:min) 8/27/99; 8:45
Initial pH of Leachant 3.675 Final pH of Leachate 8.439
Cation Analysis No. T10-027 Dilution Factor

10 Leachant Replacement Date and Time(d:hr:min) 8/31/99; 9:30
Initial pH of Leachant 4.308 Final pH of Leachate 8.210
Cation Analysis No. T11-027 Dilution Factor

11 Leachant Replacement Date and Time(d:hr:min) 9/3/99; 9:30
Initial pH of Leachant 4.208 Final pH of Leachate 8.238
Cation Analysis No. T12-027 Dilution Factor

12 Leachant Replacement Date and Time(d:hr:min) 9/7/99; 9:00
Initial pH of Leachant 4.070 Final pH of Leachate 8.002
Cation Analysis No. T13-027 Dilution Factor

13 Leachant Replacement Date and Time(d:hr:min) 9/10/99; 10:00
Initial pH of Leachant 3.927 Final pH of Leachate 8.006
Cation Analysis No. T14-027 Dilution Factor

14 Leachant Replacement Date and Time(d:hr:min) 9/14/99; 9:15
Initial pH of Leachant 3.916 Final pH of Leachate 7.667
Cation Analysis No. T15-027 Dilution Factor

15 Leachant Replacement Date and Time(d:hr:min) 9/17/99; 9:00
Initial pH of Leachant 3.950 Final pH of Leachate 7.814
Cation Analysis No. T16-027 Dilution Factor

16 Leachant Replacement Date and Time(d:hr:min) 9/21/99; 10:00
Initial pH of Leachant 3.920 Final pH of Leachate 7.152
Cation Analysis No. T17-027 Dilution Factor

17 Leachant Replacement Date and Time(d:hr:min) 9/24/99; 10:30
Initial pH of Leachant 3.697 Final pH of Leachate 7.525
Cation Analysis No. T18-027 Dilution Factor

18 Leachant Replacement Date and Time(d:hr:min) 9/28/99; 9:30
Initial pH of Leachant 3.705 Final pH of Leachate 7.072
Cation Analysis No. T19-027 Dilution Factor

19 Leachant Replacement Date and Time(d:hr:min) 10/1/99; 9:30
Initial pH of Leachant 3.650 Final pH of Leachate 7.315
Cation Analysis No. T20-027 Dilution Factor

20 Leachant Replacement Date and Time(d:hr:min) 10/5/99; 9:30
Initial pH of Leachant 3.815 Final pH of Leachate 7.189
Cation Analysis No. T21-027 Dilution Factor

21 Leachant Replacement Date and Time(d:hr:min) 10/8/99; 9:30
Initial pH of Leachant 3.799 Final pH of Leachate 6.798
Cation Analysis No. T22-027 Dilution Factor

22 Leachant Replacement Date and Time(d:hr:min) 10/12/99 9:45
Initial pH of Leachant 3.925 Final pH of Leachate 7.080
Cation Analysis No. T23-027 Dilution Factor

10/14/99

027

23 Leachant Replacement Date and Time(d:hr:min) 10/15/99 9:45
Initial pH of Leachant 3.847
Cation Analysis No. T24-027
Final pH of Leachate 6.980
Dilution Factor

24 Leachant Replacement Date and Time(d:hr:min) 10/26/99 10:00
Initial pH of Leachant 3.806
Cation Analysis No. T25-027
Final pH of Leachate 7.753
Dilution Factor

25 Leachant Replacement Date and Time(d:hr:min) 11/2/99 9:55
Initial pH of Leachant 3.790
Cation Analysis No. T26-027
Final pH of Leachate 7.871
Dilution Factor

26 Leachant Replacement Date and Time(d:hr:min) 11/9/99 9:30
Initial pH of Leachant 3.722
Cation Analysis No. T27-027
Final pH of Leachate 7.780
Dilution Factor

27 Leachant Replacement Date and Time(d:hr:min) 11/16/99 1:00
Initial pH of Leachant 3.618
Cation Analysis No. T28-027
Final pH of Leachate 7.976
Dilution Factor

28 Leachant Replacement Date and Time(d:hr:min) 11/23/99 10:30
Initial pH of Leachant 3.563
Cation Analysis No. T29-027
Final pH of Leachate 7.858
Dilution Factor

29 Leachant Replacement Date and Time(d:hr:min) 11/30/99 10:00
Initial pH of Leachant 3.605
Cation Analysis No. T30-027
Final pH of Leachate 7.631
Dilution Factor

30 Leachant Replacement Date and Time(d:hr:min) 12/7/99 11:15
Initial pH of Leachant 4.145
Cation Analysis No. T31-027
Final pH of Leachate 7.451
Dilution Factor

31 Leachant Replacement Date and Time(d:hr:min) 12/14/99 10:00
Initial pH of Leachant 3.760
Cation Analysis No. T32-027
Final pH of Leachate 7.380
Dilution Factor

32 Leachant Replacement Date and Time(d:hr:min) 12/21/99 10:00
Initial pH of Leachant 3.759
Cation Analysis No. T33-027
Final pH of Leachate 7.460
Dilution Factor

33 Leachant Replacement Date and Time(d:hr:min) 12/28/99 11:15
Initial pH of Leachant 3.819
Cation Analysis No. T34-027
Final pH of Leachate 7.138
Dilution Factor

34 Leachant Replacement Date and Time(d:hr:min) 1/4/00 10:30
Initial pH of Leachant 3.762
Cation Analysis No. T35-027
Final pH of Leachate 7.053
Dilution Factor

35 Leachant Replacement Date and Time(d:hr:min) 1/11/00 10:30
Initial pH of Leachant 3.705
Cation Analysis No. T36-027
Final pH of Leachate 7.085
Dilution Factor

36 Leachant Replacement Date and Time(d:hr:min) 1/18/00 10:50
Initial pH of Leachant 3.693
Cation Analysis No. T37-027
Final pH of Leachate 6.976
Dilution Factor

1/20/00

027

37 Leachant Replacement Date and Time(d:hr:min) 1/25/00 10:45
Initial pH of Leachant 3.627
Cation Analysis No. T38-027
Final pH of Leachate 7.144
Dilution Factor

38 Leachant Replacement Date and Time(d:hr:min) 2/2/00 3pm
Initial pH of Leachant 3.531
Cation Analysis No. T39-027
Final pH of Leachate 7.663
Dilution Factor

39 Leachant Replacement Date and Time(d:hr:min) 2/15/00 10:30
Initial pH of Leachant 3.497
Cation Analysis No. T40-027
Final pH of Leachate 7.813
Dilution Factor

40 Leachant Replacement Date and Time(d:hr:min) 2/29/00 2:30pm
Initial pH of Leachant 4.177
Cation Analysis No. T41-027
Final pH of Leachate 7.675
Dilution Factor

41 Leachant Replacement Date and Time(d:hr:min) 3/14/00 11:00am
Initial pH of Leachant 3.861
Cation Analysis No. T42-027
Final pH of Leachate 7.793
Dilution Factor

42 Leachant Replacement Date and Time(d:hr:min) 3/28/00 10:00am
Initial pH of Leachant 3.586
Cation Analysis No. T43-027
Final pH of Leachate 7.429
Dilution Factor

43 Leachant Replacement Date and Time(d:hr:min) 4/11/00 2:00 pm
Initial pH of Leachant 3.586
Cation Analysis No. T44-027
Final pH of Leachate 7.389
Dilution Factor

44 Leachant Replacement Date and Time(d:hr:min) 4/25/00 2:00 pm
Initial pH of Leachant 3.589
Cation Analysis No. T45-027
Final pH of Leachate 7.664
Dilution Factor

45 Leachant Replacement Date and Time(d:hr:min) 5/9/00 10:30
Initial pH of Leachant 3.578
Cation Analysis No. T46-027
Final pH of Leachate 7.295
Dilution Factor

46 Leachant Replacement Date and Time(d:hr:min) 5/23/00 2:00pm
Initial pH of Leachant 3.444
Cation Analysis No. T47-027
Final pH of Leachate 7.384
Dilution Factor

47 Leachant Replacement Date and Time(d:hr:min) 6/6/00 10:30
Initial pH of Leachant 3.467
Cation Analysis No. T48-027
Final pH of Leachate 7.368
Dilution Factor

6/6/00

48 Leachant Replacement Date and Time(d:hr:min) 6/20/00 1:00pm
Initial pH of Leachant 3.430
Cation Analysis No. T49-027
Final pH of Leachate 7.268
Dilution Factor

49 Leachant Replacement Date and Time(d:hr:min) 7/5/00 8:30
Initial pH of Leachant 3.425
Cation Analysis No. T50-027
Final pH of Leachate 7.175
Dilution Factor

50 Leachant Replacement Date and Time(d:hr:min) 7/18/00 10:30
Initial pH of Leachant 3.410
Cation Analysis No. T51-027
Final pH of Leachate 7.101
Dilution Factor

8/11/00

LONG-TERM TEST DATA SHEET

Test ID WVNSLF2-T2

Vessel ID No. 028 Batch Cleaning No. 7-21-99

Glass Sample ID WVNS
Sample Weight (g) 3.00069
Sample Preparation Date 7-26-99

Type of Solution 0.0025 M $FeCl_2$
Leachant Volume (ml) 30
Initial pH of Leachant 3.949

Weight of Empty Vessel (g) 127.07585
Weight of Vessel + Sample (g) 130.06735
2nd Weight of Sample (Difference of the last two items) (g) 2.99150
Total Weight of Vessel + Sample + Solution (g) 159.65470

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 7/27/99; 10:20

Final pH of Leachate 9.363
Cation Analysis No. T1-028 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 7/30/99; 9:50
Initial pH of Leachant 3.867 Final pH of Leachate 9.281
Cation Analysis No. T2-028 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 8/3/99; 9:15
Initial pH of Leachant 3.854 Final pH of Leachate 8.943
Cation Analysis No. T3-028 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 8/6/99; 10:05
Initial pH of Leachant 3.752 Final pH of Leachate 8.970
Cation Analysis No. T4-028 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 8/10/99; 10:25
Initial pH of Leachant 3.650 Final pH of Leachate 8.688
Cation Analysis No. T5-028 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 8/13/99; 10:15
Initial pH of Leachant 3.784 Final pH of Leachate 8.780
Cation Analysis No. T6-028 Dilution Factor

6 Leachant Replacement Date and Time(d:hr:min) 8/17/99; 10:12
Initial pH of Leachant 3.750 Final pH of Leachate 8.505
Cation Analysis No. T7-028 Dilution Factor

7 Leachant Replacement Date and Time(d:hr:min) 8/20/99; 8:50
Initial pH of Leachant 3.686 Final pH of Leachate 8.596
Cation Analysis No. T8-028 Dilution Factor

8 Leachant Replacement Date and Time(d:hr:min) 8/24/99; 9:00
Initial pH of Leachant 3.695 Final pH of Leachate 8.352
Cation Analysis No. T9-028 Dilution Factor

8/26/99

028

9 Leachant Replacement Date and Time(d:hr:min) 8/27/99; 8:45
Initial pH of Leachant 3.675 Final pH of Leachate 8.458
Cation Analysis No. T10-028 Dilution Factor

10 Leachant Replacement Date and Time(d:hr:min) 8/31/99; 9:30
Initial pH of Leachant 4.308 Final pH of Leachate 8.243
Cation Analysis No. T11-028 Dilution Factor

11 Leachant Replacement Date and Time(d:hr:min) 9/3/99; 9:30
Initial pH of Leachant 4.208 Final pH of Leachate 8.307
Cation Analysis No. T12-028 Dilution Factor

12 Leachant Replacement Date and Time(d:hr:min) 9/7/99; 9:00
Initial pH of Leachant 4.070 Final pH of Leachate ~~8.299~~ 7.930
Cation Analysis No. T13-028 Dilution Factor

TT 9/10/99

13 Leachant Replacement Date and Time(d:hr:min) 9/10/99; 10:00
Initial pH of Leachant 3.927 Final pH of Leachate 8.058
Cation Analysis No. T14-028 Dilution Factor

14 Leachant Replacement Date and Time(d:hr:min) 9/14/99; 9:15
Initial pH of Leachant 3.916 Final pH of Leachate 7.715
Cation Analysis No. T15-028 Dilution Factor

15 Leachant Replacement Date and Time(d:hr:min) 9/17/99; 9:00
Initial pH of Leachant 3.950 Final pH of Leachate 7.867
Cation Analysis No. T16-028 Dilution Factor

BTP 9/21/99

16 Leachant Replacement Date and Time(d:hr:min) ~~10~~ 9/21/99; 10:00
Initial pH of Leachant 3.920 Final pH of Leachate 7.176
Cation Analysis No. T17-028 Dilution Factor

17 Leachant Replacement Date and Time(d:hr:min) 9/24/99; 10:30
Initial pH of Leachant 3.697 Final pH of Leachate 7.664
Cation Analysis No. T18-028 Dilution Factor

18 Leachant Replacement Date and Time(d:hr:min) 9/28/99; 9:30
Initial pH of Leachant 3.705 Final pH of Leachate 7.247
Cation Analysis No. T19-028 Dilution Factor

19 Leachant Replacement Date and Time(d:hr:min) 10/1/99; 9:30
Initial pH of Leachant 3.650 Final pH of Leachate 7.280
Cation Analysis No. T20-028 Dilution Factor

20 Leachant Replacement Date and Time(d:hr:min) 10/5/99; 9:30
Initial pH of Leachant 3.815 Final pH of Leachate 7.312
Cation Analysis No. T21-028 Dilution Factor

21 Leachant Replacement Date and Time(d:hr:min) 10/8/99; 9:30
Initial pH of Leachant 3.799 Final pH of Leachate 6.835
Cation Analysis No. T22-028 Dilution Factor

22 Leachant Replacement Date and Time(d:hr:min) 10/12/99, 9:45
Initial pH of Leachant 3.925 Final pH of Leachate 7.171
Cation Analysis No. T23-028 Dilution Factor

10/14/99

028

23 Leachant Replacement Date and Time(d:hr:min) 10/15/99, 9:45
Initial pH of Leachant 3.847 — Final pH of Leachate 7.069
Cation Analysis No. T24-028 — Dilution Factor

24 Leachant Replacement Date and Time(d:hr:min) 10/26/99; 10:00
Initial pH of Leachant 3.806 — Final pH of Leachate 7.878
Cation Analysis No. T25-028 — Dilution Factor

25 Leachant Replacement Date and Time(d:hr:min) 11/2/99; 9:55
Initial pH of Leachant 3.790 — Final pH of Leachate 8.011
Cation Analysis No. T26-028 — Dilution Factor

26 Leachant Replacement Date and Time(d:hr:min) 11/9/99; 9:30
Initial pH of Leachant 3.722 — Final pH of Leachate 7.693
Cation Analysis No. T27-028 — Dilution Factor

27 Leachant Replacement Date and Time(d:hr:min) 11/19/99; 1:00
Initial pH of Leachant 3.68 — Final pH of Leachate 8.031
Cation Analysis No. T28-028 — Dilution Factor

28 Leachant Replacement Date and Time(d:hr:min) 11/23/99 10:30
Initial pH of Leachant 3.563 — Final pH of Leachate 7.921
Cation Analysis No. T29-028 — Dilution Factor

29 Leachant Replacement Date and Time(d:hr:min) 11/30/99 10:00
Initial pH of Leachant 3.605 — Final pH of Leachate 7.837
Cation Analysis No. T30-028 — Dilution Factor

30 Leachant Replacement Date and Time(d:hr:min) 12/7/99 11:15
Initial pH of Leachant 4.145 — Final pH of Leachate 7.354
Cation Analysis No. T31-028 — Dilution Factor

31 Leachant Replacement Date and Time(d:hr:min) 12/14/99 10:00
Initial pH of Leachant 3.760 — Final pH of Leachate 7.267
Cation Analysis No. T32-028 — Dilution Factor

32 Leachant Replacement Date and Time(d:hr:min) 12/21/99 10:00
Initial pH of Leachant 3.759 — Final pH of Leachate 7.558
Cation Analysis No. T33-028 — Dilution Factor

33 Leachant Replacement Date and Time(d:hr:min) 12/28/99 11:15
Initial pH of Leachant 3.819 — Final pH of Leachate 7.385
Cation Analysis No. T34-028 — Dilution Factor

34 Leachant Replacement Date and Time(d:hr:min) 1/4/00 10:30
Initial pH of Leachant 3.762 — Final pH of Leachate 7.304
Cation Analysis No. T35-028 — Dilution Factor

35 Leachant Replacement Date and Time(d:hr:min) 1/11/00 10:30
Initial pH of Leachant 3.705 — Final pH of Leachate 7.076
Cation Analysis No. T36-028 — Dilution Factor

36 Leachant Replacement Date and Time(d:hr:min) 1/18/00 10:50
Initial pH of Leachant 3.693 — Final pH of Leachate 7.003
Cation Analysis No. T37-028 — Dilution Factor

1/20/00

028

37 Leachant Replacement Date and Time(d:hr:min) 1/25/00 10:45
Initial pH of Leachant 3.627 — Final pH of Leachate 7.113
Cation Analysis No. T38-028 — Dilution Factor

38 Leachant Replacement Date and Time(d:hr:min) 2/2/00 3pm
Initial pH of Leachant 3.531 — Final pH of Leachate 7.768
Cation Analysis No. T39-028 — Dilution Factor

39 Leachant Replacement Date and Time(d:hr:min) 2/15/00 10:30
Initial pH of Leachant 3.497 — Final pH of Leachate 7.844
Cation Analysis No. T40-028 — Dilution Factor

40 Leachant Replacement Date and Time(d:hr:min) 2/29/00 2:30pm
Initial pH of Leachant 4.177 — Final pH of Leachate 7.808
Cation Analysis No. T41-028 — Dilution Factor

41 Leachant Replacement Date and Time(d:hr:min) 3/14/00 11:00am
Initial pH of Leachant 3.861 — Final pH of Leachate 7.546
Cation Analysis No. T42-028 — Dilution Factor

42 Leachant Replacement Date and Time(d:hr:min) 3/28/00 10:00am
Initial pH of Leachant 3.586 — Final pH of Leachate 7.489
Cation Analysis No. T43-028 — Dilution Factor

43 Leachant Replacement Date and Time(d:hr:min) 4/11/00 2:00pm
Initial pH of Leachant 3.586 — Final pH of Leachate ~~7.760~~ 7.422 (10 4/25/00)
Cation Analysis No. T44-028 — Dilution Factor

44 Leachant Replacement Date and Time(d:hr:min) 4/25/00 2:00pm
Initial pH of Leachant 3.589 — Final pH of Leachate 7.623
Cation Analysis No. T45-028 — Dilution Factor

45 Leachant Replacement Date and Time(d:hr:min) 5/9/00 10:30
Initial pH of Leachant 3.578 — Final pH of Leachate 7.399
Cation Analysis No. T46-028 — Dilution Factor

46 Leachant Replacement Date and Time(d:hr:min) 5/23/00 2:00pm
Initial pH of Leachant 3.444 — Final pH of Leachate 7.442
Cation Analysis No. T47-028 — Dilution Factor

47 Leachant Replacement Date and Time(d:hr:min) 6/6/00 10:30
Initial pH of Leachant 3.467 — Final pH of Leachate 7.477
Cation Analysis No. T48-028 — Dilution Factor

6/6/00

48 Leachant Replacement Date and Time(d:hr:min) 6/20/00 1:00pm
Initial pH of Leachant 3.430 — Final pH of Leachate 7.344
Cation Analysis No. T49-028 — Dilution Factor

49 Leachant Replacement Date and Time(d:hr:min) 7/5/00 8:30
Initial pH of Leachant 3.425 — Final pH of Leachate 7.222
Cation Analysis No. T50-028 — Dilution Factor

50 Leachant Replacement Date and Time(d:hr:min) 7/18/00 10:30
Initial pH of Leachant 3.410 — Final pH of Leachate 6.881
Cation Analysis No. T51-028 — Dilution Factor

8/11/00

LONG-TERM TEST DATA SHEET

Test ID WVNS LF2-T3

Vessel ID No. 029 Batch Cleaning No. 7-21-99

Glass Sample ID WVNS
Sample Weight (g) 3.00291
Sample Preparation Date 7-26-99

Type of Solution 0.0025 M $FeCl_2$
Leachant Volume (ml) 30
Initial pH of Leachant 3.949

Weight of Empty Vessel (g) 126.66885
Weight of Vessel + Sample (g) 129.65870
2nd Weight of Sample (Difference of the last two items) (g) 2.98985
Total Weight of Vessel + Sample + Solution (g) 159.35500

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 7/27/99; 10:20

Final pH of Leachate 9.335
Cation Analysis No. T1-029 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 7/30/99; 9:50
Initial pH of Leachant 3.867 Final pH of Leachate 9.305
Cation Analysis No. T2-029 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 8/3/99; 9:15
Initial pH of Leachant 3.854 Final pH of Leachate 8.940
Cation Analysis No. T3-029 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 8/6/99; 10:05
Initial pH of Leachant 3.752 Final pH of Leachate 8.962
Cation Analysis No. T4-029 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 8/10/99; 10:25
Initial pH of Leachant 3.650 Final pH of Leachate 8.670
Cation Analysis No. T5-029 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 8/13/99; 10:15
Initial pH of Leachant 3.784 Final pH of Leachate 8.715
Cation Analysis No. T6-029 Dilution Factor

6 Leachant Replacement Date and Time(d:hr:min) 8/17/99; 10:12
Initial pH of Leachant 3.750 Final pH of Leachate 8.458
Cation Analysis No. T7-029 Dilution Factor

7 Leachant Replacement Date and Time(d:hr:min) 8/20/99; 8:50
Initial pH of Leachant 3.686 Final pH of Leachate 8.582
Cation Analysis No. T8-029 Dilution Factor

8 Leachant Replacement Date and Time(d:hr:min) 8/24/99; 9:00
Initial pH of Leachant 3.695 Final pH of Leachate 8.343
Cation Analysis No. T9-029 Dilution Factor

8/26/99

029

9 Leachant Replacement Date and Time(d:hr:min) 8/27/99; 8:45
Initial pH of Leachant 3.675 Final pH of Leachate 8.419
Cation Analysis No. T10-029 Dilution Factor

10 Leachant Replacement Date and Time(d:hr:min) 8/31/99; 9:30
Initial pH of Leachant 4.308 Final pH of Leachate 8.215
Cation Analysis No. T11-029 Dilution Factor

11 Leachant Replacement Date and Time(d:hr:min) 9/3/99; 9:30
Initial pH of Leachant 4.208 Final pH of Leachate 8.299
Cation Analysis No. T12-029 Dilution Factor

12 Leachant Replacement Date and Time(d:hr:min) 9/7/99; 9:00
Initial pH of Leachant 4.070 Final pH of Leachate 7.966
Cation Analysis No. T13-029 Dilution Factor

13 Leachant Replacement Date and Time(d:hr:min) 9/10/99; 10:00
Initial pH of Leachant 3.927 Final pH of Leachate 8.022
Cation Analysis No. T14-029 Dilution Factor

14 Leachant Replacement Date and Time(d:hr:min) 9/14/99; 9:15
Initial pH of Leachant 3.916 Final pH of Leachate 7.710
Cation Analysis No. T15-029 Dilution Factor

15 Leachant Replacement Date and Time(d:hr:min) 9/17/99; 9:00
Initial pH of Leachant 3.950 Final pH of Leachate 7.850
Cation Analysis No. T16-029 Dilution Factor

16 Leachant Replacement Date and Time(d:hr:min) 9/21/99; 10:00
Initial pH of Leachant 3.920 Final pH of Leachate 7.171
Cation Analysis No. T17-029 Dilution Factor

17 Leachant Replacement Date and Time(d:hr:min) 9/24/99; 10:30
Initial pH of Leachant 3.697 Final pH of Leachate 7.605
Cation Analysis No. T18-029 Dilution Factor

18 Leachant Replacement Date and Time(d:hr:min) 9/28/99; 9:30
Initial pH of Leachant 3.705 Final pH of Leachate 7.161
Cation Analysis No. T19-029 Dilution Factor

19 Leachant Replacement Date and Time(d:hr:min) 10/1/99
Initial pH of Leachant 3.650 Final pH of Leachate 7.246
Cation Analysis No. T20-029 Dilution Factor

20 Leachant Replacement Date and Time(d:hr:min) 10/5/99; 9:30
Initial pH of Leachant 3.815 Final pH of Leachate 7.212
Cation Analysis No. T21-029 Dilution Factor

21 Leachant Replacement Date and Time(d:hr:min) 10/8/99; 9:30
Initial pH of Leachant 3.799 Final pH of Leachate 6.842
Cation Analysis No. T22-029 Dilution Factor

22 Leachant Replacement Date and Time(d:hr:min) 10/12/99, 9:45
Initial pH of Leachant 3.925 Final pH of Leachate 7.065
Cation Analysis No. T23-029 Dilution Factor

10/14/99

029

23 Leachant Replacement Date and Time(d:hr:min) 10/15/99; 9:45
Initial pH of Leachant 3.847 — Final pH of Leachate 7.070
Cation Analysis No. T24-029 — Dilution Factor

24 Leachant Replacement Date and Time(d:hr:min) 10/26/99; 10:00
Initial pH of Leachant 3.806 — Final pH of Leachate 7.796
Cation Analysis No. T25-029 — Dilution Factor

25 Leachant Replacement Date and Time(d:hr:min) 11/2/99; 9:55
Initial pH of Leachant 3.790 — Final pH of Leachate 7.949
Cation Analysis No. T26-029 — Dilution Factor

26 Leachant Replacement Date and Time(d:hr:min) 11/9/99; 9:30
Initial pH of Leachant 3.722 — Final pH of Leachate 7.811
Cation Analysis No. T27-029 — Dilution Factor

27 Leachant Replacement Date and Time(d:hr:min) 11/16/99; 1:00
Initial pH of Leachant 3.618 — Final pH of Leachate 8.021
Cation Analysis No. T28-029 — Dilution Factor

28 Leachant Replacement Date and Time(d:hr:min) 10:30 11/23/99
Initial pH of Leachant 3.563 — Final pH of Leachate 7.960
Cation Analysis No. T29-029 — Dilution Factor

29 Leachant Replacement Date and Time(d:hr:min) 11/30/99 10:00
Initial pH of Leachant 3.605 — Final pH of Leachate 7.780
Cation Analysis No. T30-029 — Dilution Factor

30 Leachant Replacement Date and Time(d:hr:min) 12/7/99 11:15
Initial pH of Leachant 41145 — Final pH of Leachate 7.303
Cation Analysis No. T31-029 — Dilution Factor

31 Leachant Replacement Date and Time(d:hr:min) 12/14/99 10:00
Initial pH of Leachant 3.760 — Final pH of Leachate 7.388
Cation Analysis No. T32-029 — Dilution Factor

32 Leachant Replacement Date and Time(d:hr:min) 12/21/99 10:00
Initial pH of Leachant 3.759 — Final pH of Leachate 7.530
Cation Analysis No. T33-029 — Dilution Factor

33 Leachant Replacement Date and Time(d:hr:min) 12/28/99 11:15
Initial pH of Leachant 3.819 — Final pH of Leachate 7.266
Cation Analysis No. T34-029 — Dilution Factor

34 Leachant Replacement Date and Time(d:hr:min) 1/4/00 10:30
Initial pH of Leachant 3.762 — Final pH of Leachate 7.158
Cation Analysis No. T35-029 — Dilution Factor

35 Leachant Replacement Date and Time(d:hr:min) 1/11/00 10:30
Initial pH of Leachant 3.705 — Final pH of Leachate 7.115
Cation Analysis No. T36-029 — Dilution Factor

36 Leachant Replacement Date and Time(d:hr:min) 1/18/00 10:50
Initial pH of Leachant 3.693 — Final pH of Leachate 7.038
Cation Analysis No. T37-029 — Dilution Factor

1/20/00

029

37 Leachant Replacement Date and Time(d:hr:min) 1/25/00 10:45
Initial pH of Leachant 3.627 — Final pH of Leachate 7.171
Cation Analysis No. T38-029 — Dilution Factor

38 Leachant Replacement Date and Time(d:hr:min) 2/2/00 3pm
Initial pH of Leachant 3.531 — Final pH of Leachate 7.549
Cation Analysis No. T39-029 — Dilution Factor

39 Leachant Replacement Date and Time(d:hr:min) 2/15/00 10:30
Initial pH of Leachant 3.497 — Final pH of Leachate 7.860
Cation Analysis No. T40-029 — Dilution Factor

40 Leachant Replacement Date and Time(d:hr:min) 2/29/00 2:30pm
Initial pH of Leachant 4.177 — Final pH of Leachate 7.874
Cation Analysis No. T41-029 — Dilution Factor

41 Leachant Replacement Date and Time(d:hr:min) 3/14/00 11:00am
Initial pH of Leachant 3.561 — Final pH of Leachate 7.567
Cation Analysis No. T42-029 — Dilution Factor

42 Leachant Replacement Date and Time(d:hr:min) 3/28/00 10:00am
Initial pH of Leachant 3.586 — Final pH of Leachate 7.760
Cation Analysis No. T43-029 — Dilution Factor

43 Leachant Replacement Date and Time(d:hr:min) 4/11/00 2:00 pm
Initial pH of Leachant 3.586 — Final pH of Leachate 7.510
Cation Analysis No. T44-029 — Dilution Factor

44 Leachant Replacement Date and Time(d:hr:min) 4/25/00 2:00 pm
Initial pH of Leachant 3.589 — Final pH of Leachate 7.765
Cation Analysis No. T45-029 — Dilution Factor

45 Leachant Replacement Date and Time(d:hr:min) 5/8/00 10:30
Initial pH of Leachant 3.578 — Final pH of Leachate 7.397
Cation Analysis No. T46-029 — Dilution Factor

46 Leachant Replacement Date and Time(d:hr:min) 5/22/00 2:00pm
Initial pH of Leachant 3.444 — Final pH of Leachate 7.426
Cation Analysis No. T47-029 — Dilution Factor

47 Leachant Replacement Date and Time(d:hr:min) 6/6/00 10:30
Initial pH of Leachant 3.467 — Final pH of Leachate 7.405
Cation Analysis No. T48-029 — Dilution Factor

6/6/00

48 Leachant Replacement Date and Time(d:hr:min) 6/20/00 1:00pm
Initial pH of Leachant 3.430 — Final pH of Leachate 7.309
Cation Analysis No. T49-029 — Dilution Factor

49 Leachant Replacement Date and Time(d:hr:min) 7/5/00 8:30
Initial pH of Leachant 3.425 — Final pH of Leachate 7.246
Cation Analysis No. T50-029 — Dilution Factor

50 Leachant Replacement Date and Time(d:hr:min) 7/18/00 10:30
Initial pH of Leachant 3.410 — Final pH of Leachate 7.142
Cation Analysis No. T51-029 — Dilution Factor

8/11/00

LONG-TERM TEST DATA SHEET

Test ID SRSLF3-T1

Vessel ID No. 030 Batch Cleaning No. 7-21-99

Glass Sample ID SRS
Sample Weight (g) 2.99926
Sample Preparation Date 7-26-99

Type of Solution 0.0025 M $FeCl_3$
Leachant Volume (ml) 30
Initial pH of Leachant 2.215

Weight of Empty Vessel (g) 127.90665
Weight of Vessel + Sample (g) 130.90400
2nd Weight of Sample (Difference of the last two items) (g) 2.99935
Total Weight of Vessel + Sample + Solution (g) 160.44555

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 7/27/99; 10:20

Final pH of Leachate 8.472
Cation Analysis No. T1-030 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 7/30/99; 9:50
Initial pH of Leachant 2.223 Final pH of Leachate 8.175
Cation Analysis No. T2-030 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 8/3/99; 9:15
Initial pH of Leachant 2.278 Final pH of Leachate 7.168
Cation Analysis No. T3-030 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 8/6/99; 10:05
Initial pH of Leachant ~~[illegible]~~ 8/6/99 2.132 Final pH of Leachate 7.025
Cation Analysis No. T4-030 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 8/10/99; 10:25
Initial pH of Leachant 2.123 Final pH of Leachate 6.555
Cation Analysis No. T5-030 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 8/13/99; 10:15
Initial pH of Leachant 2.258 Final pH of Leachate 6.374
Cation Analysis No. T6-030 Dilution Factor

6 Leachant Replacement Date and Time(d:hr:min) 8/17/99; 10:12
Initial pH of Leachant 2.158 Final pH of Leachate 5.294
Cation Analysis No. T7-030 Dilution Factor

7 Leachant Replacement Date and Time(d:hr:min) 8/20/99; 8:50
Initial pH of Leachant 2.230 Final pH of Leachate 5.966
Cation Analysis No. T8-030 Dilution Factor

8 Leachant Replacement Date and Time(d:hr:min) 8/24/99; 9:00
Initial pH of Leachant 2.235 Final pH of Leachate 4.416
Cation Analysis No. T9-030 Dilution Factor ~~4.416~~ 8/27/99

8/26/99

030

9 Leachant Replacement Date and Time(d:hr:min) 8/27/99; 8:45
Initial pH of Leachant 2.214 Final pH of Leachate 4.891
Cation Analysis No. T10-030 Dilution Factor

10 Leachant Replacement Date and Time(d:hr:min) 8/31/99; 9:30
Initial pH of Leachant 2.426 Final pH of Leachate 3.425
Cation Analysis No. T11-030 Dilution Factor

11 Leachant Replacement Date and Time(d:hr:min) 9/3/99; 9:30
Initial pH of Leachant 2.336 Final pH of Leachate 3.721
Cation Analysis No. T12-030 Dilution Factor

12 Leachant Replacement Date and Time(d:hr:min) 9/7/99; 9:00
Initial pH of Leachant 2.318 Final pH of Leachate 3.195
Cation Analysis No. T13-030 Dilution Factor

13 Leachant Replacement Date and Time(d:hr:min) 9/10/99; 10:00
Initial pH of Leachant 2.282 Final pH of Leachate 3.571
Cation Analysis No. T14-030 Dilution Factor

14 Leachant Replacement Date and Time(d:hr:min) 9/14/99; 9:15
Initial pH of Leachant 2.276 Final pH of Leachate 3.206
Cation Analysis No. T15-030 Dilution Factor

15 Leachant Replacement Date and Time(d:hr:min) 9/17/99; 9:00
Initial pH of Leachant 2.320 Final pH of Leachate 3.708
Cation Analysis No. T16-030 Dilution Factor

16 Leachant Replacement Date and Time(d:hr:min) 9/21/99; 10:00
Initial pH of Leachant 2.330 Final pH of Leachate 3.102
Cation Analysis No. T17-030 Dilution Factor

17 Leachant Replacement Date and Time(d:hr:min) 9/24/99; 10:30
Initial pH of Leachant 2.204 Final pH of Leachate 3.438
Cation Analysis No. T18-030 Dilution Factor

18 Leachant Replacement Date and Time(d:hr:min) 9/28/99; 9:30
Initial pH of Leachant 2.200 Final pH of Leachate 3.028
Cation Analysis No. T19-030 Dilution Factor

19 Leachant Replacement Date and Time(d:hr:min) 10/1/99; 9:30
Initial pH of Leachant 2.175 Final pH of Leachate 3.557
Cation Analysis No. T20-030 Dilution Factor

20 Leachant Replacement Date and Time(d:hr:min) 10/5/99; 9:30
Initial pH of Leachant 2.100 Final pH of Leachate 3.684
Cation Analysis No. T21-030 Dilution Factor

21 Leachant Replacement Date and Time(d:hr:min) 10/8/99; 9:30
Initial pH of Leachant 2.098 Final pH of Leachate 3.089
Cation Analysis No. T22-030 Dilution Factor

22 Leachant Replacement Date and Time(d:hr:min) 10/12/99 9:45
Initial pH of Leachant 2.227 Final pH of Leachate 3.434
Cation Analysis No. T23-030 Dilution Factor

10/14/99

030

23 Leachant Replacement Date and Time(d:hr:min) 10/15/99; 9:45
Initial pH of Leachant 2.294 Final pH of Leachate 3.591
Cation Analysis No. T24-030 Dilution Factor

24 Leachant Replacement Date and Time(d:hr:min) 10/26/99; 10:00
Initial pH of Leachant 2.330 Final pH of Leachate 5.846
Cation Analysis No. T25-030 Dilution Factor

25 Leachant Replacement Date and Time(d:hr:min) 11/2/99; 9:55
Initial pH of Leachant 2.290 Final pH of Leachate 6.057
Cation Analysis No. T26-030 Dilution Factor

26 Leachant Replacement Date and Time(d:hr:min) 11/9/99; 9:30
Initial pH of Leachant 2.265 Final pH of Leachate 6.321
Cation Analysis No. T27-030 Dilution Factor

27 Leachant Replacement Date and Time(d:hr:min) 11/16/99; 1:00
Initial pH of Leachant 2.205 Final pH of Leachate 5.250
Cation Analysis No. T28-030 Dilution Factor

28 Leachant Replacement Date and Time(d:hr:min) 11/23/99; 10:30
Initial pH of Leachant 2.240 Final pH of Leachate 3.820
Cation Analysis No. T29-030 Dilution Factor

29 Leachant Replacement Date and Time(d:hr:min) 11/30/99 10:00
Initial pH of Leachant 2.215 Final pH of Leachate 3.293
Cation Analysis No. T30-030 Dilution Factor

30 Leachant Replacement Date and Time(d:hr:min) 12/7/99 11:15
Initial pH of Leachant 2.436 Final pH of Leachate 3.134
Cation Analysis No. T31-030 Dilution Factor

31 Leachant Replacement Date and Time(d:hr:min) 12/14/99 10:00
Initial pH of Leachant 2.322 Final pH of Leachate 3.117
Cation Analysis No. T32-030 Dilution Factor

32 Leachant Replacement Date and Time(d:hr:min) 12/21/99 10:00
Initial pH of Leachant 3.803 Final pH of Leachate 3.183
Cation Analysis No. T33-030 Dilution Factor

33 Leachant Replacement Date and Time(d:hr:min) 12/28/99 11:15
Initial pH of Leachant 2.258 Final pH of Leachate 3.123
Cation Analysis No. T34-030 Dilution Factor

34 Leachant Replacement Date and Time(d:hr:min) 1/4/00 10:30
Initial pH of Leachant 2.265 Final pH of Leachate 3.142
Cation Analysis No. T35-030 Dilution Factor

35 Leachant Replacement Date and Time(d:hr:min) 1/11/00 10:30
Initial pH of Leachant 2.263 Final pH of Leachate 3.224
Cation Analysis No. T36-030 Dilution Factor

36 Leachant Replacement Date and Time(d:hr:min) 1/18/00 10:50
Initial pH of Leachant 2.364 Final pH of Leachate 3.313
Cation Analysis No. T37-030 Dilution Factor

1/20/00

030

37 Leachant Replacement Date and Time(d:hr:min) 1/25/00 10:45 8:1/25/00
Initial pH of Leachant 2.242 Final pH of Leachate 3.321
Cation Analysis No. T38-030 Dilution Factor

38 Leachant Replacement Date and Time(d:hr:min) 2/2/00 3pm
Initial pH of Leachant 2.326 Final pH of Leachate 5.257
Cation Analysis No. T39-030 Dilution Factor

39 Leachant Replacement Date and Time(d:hr:min) 2/15/00 10:30
Initial pH of Leachant 2.182 Final pH of Leachate 6.050
Cation Analysis No. T40-030 Dilution Factor

40 Leachant Replacement Date and Time(d:hr:min) 2/29/00 2:30pm
Initial pH of Leachant 2.368 Final pH of Leachate 6.064
Cation Analysis No. T41-030 Dilution Factor

41 Leachant Replacement Date and Time(d:hr:min) 3/14/00 11:00am
Initial pH of Leachant 2.269 Final pH of Leachate 5.786
Cation Analysis No. T42-030 Dilution Factor

42 Leachant Replacement Date and Time(d:hr:min) 3/28/00 10:00am
Initial pH of Leachant 2.193 Final pH of Leachate 4.996
Cation Analysis No. T43-030 Dilution Factor

43 Leachant Replacement Date and Time(d:hr:min) 4/11/00 2:00pm
Initial pH of Leachant 2.212 Final pH of Leachate 4.744
Cation Analysis No. T44-030 Dilution Factor

44 Leachant Replacement Date and Time(d:hr:min) 4/25/00 2:00pm
Initial pH of Leachant 2.282 Final pH of Leachate ~~4.744~~ 3.561 MP 5/9/00
Cation Analysis No. T45-030 Dilution Factor

45 Leachant Replacement Date and Time(d:hr:min) 5/9/00 10:30
Initial pH of Leachant 2.236 Final pH of Leachate 3.56
Cation Analysis No. T46-030 Dilution Factor

46 Leachant Replacement Date and Time(d:hr:min) 5/23/00 2:00pm
Initial pH of Leachant 2.261 Final pH of Leachate 3.31
Cation Analysis No. T47-030 Dilution Factor

47 Leachant Replacement Date and Time(d:hr:min) 6/6/00 10:30
Initial pH of Leachant 2.270 Final pH of Leachate 3.31
Cation Analysis No. T48-030 Dilution Factor

6/6/00

48 Leachant Replacement Date and Time(d:hr:min) 6/20/00 1:00pm
Initial pH of Leachant 2.256 Final pH of Leachate 3.346
Cation Analysis No. T49-030 Dilution Factor

49 Leachant Replacement Date and Time(d:hr:min) 7/5/00 8:30
Initial pH of Leachant 2.234 Final pH of Leachate 3.238
Cation Analysis No. T50-030 Dilution Factor

50 Leachant Replacement Date and Time(d:hr:min) 7/18/00 10:30
Initial pH of Leachant 2.207 Final pH of Leachate 3.253
Cation Analysis No. T51-030 Dilution Factor

8/11/00

LONG-TERM TEST DATA SHEET

Test ID SRSLF3-T2

Vessel ID No. 031 Batch Cleaning No. 7-21-99

Glass Sample ID SRS
Sample Weight (g) 3.00120
Sample Preparation Date 7-26-99

Type of Solution 0.0025 M FeCl3
Leachant Volume (ml) 30
Initial pH of Leachant 2.215

Weight of Empty Vessel (g) 126.72360
Weight of Vessel + Sample (g) 129.72435
2nd Weight of Sample (Difference of the last two items) (g) 3.00075
Total Weight of Vessel + Sample + Solution (g) 159.27920

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 7/27/99; 10:20

Final pH of Leachate 8.516
Cation Analysis No. T1-031 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 7/30/99; 9:50
Initial pH of Leachant 2.223 Final pH of Leachate 8.111
Cation Analysis No. T2-031 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 8/3/99; 9:15
Initial pH of Leachant 2.278 Final pH of Leachate 7.274
Cation Analysis No. T3-031 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 8/6/99; 10:05
Initial pH of Leachant 2.132 Final pH of Leachate 7.031
Cation Analysis No. T4-031 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 8/10/99; 10:25
Initial pH of Leachant 2.123 Final pH of Leachate 6.513
Cation Analysis No. T5-031 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 8/13/99; 10:15
Initial pH of Leachant 2.258 Final pH of Leachate 5.534
Cation Analysis No. T6-031 Dilution Factor

6 Leachant Replacement Date and Time(d:hr:min) 8/17/99, 10:12
Initial pH of Leachant 2.158 Final pH of Leachate 5.737
Cation Analysis No. T7-031 Dilution Factor

7 Leachant Replacement Date and Time(d:hr:min) 8/20/99; 8:50
Initial pH of Leachant 2.230 Final pH of Leachate 6.235
Cation Analysis No. T8-031 Dilution Factor

8 Leachant Replacement Date and Time(d:hr:min) 8/24/99; 9:00
Initial pH of Leachant 2.238 Final pH of Leachate 5.527
Cation Analysis No. T9-031 Dilution Factor

8/26/99

C31

9 Leachant Replacement Date and Time(d:hr:min) 8/27/99; 8:45
Initial pH of Leachant 2.214 Final pH of Leachate ~~5.544~~ 5.566 STC 8/31/99
Cation Analysis No. T10-031 Dilution Factor

10 Leachant Replacement Date and Time(d:hr:min) 8/31/99; 9:30
Initial pH of Leachant 2.426 Final pH of Leachate 4.188
Cation Analysis No. T11-031 Dilution Factor

11 Leachant Replacement Date and Time(d:hr:min) 9/3/99; 9:30
Initial pH of Leachant 2.336 Final pH of Leachate 4.001
Cation Analysis No. T12-031 Dilution Factor

12 Leachant Replacement Date and Time(d:hr:min) 9/7/99; 9:00
Initial pH of Leachant 2.318 Final pH of Leachate 3.232
Cation Analysis No. T13-031 Dilution Factor

13 Leachant Replacement Date and Time(d:hr:min) 9/10/99; 10:00
Initial pH of Leachant 2.282 Final pH of Leachate 3.726
Cation Analysis No. T14-031 Dilution Factor

14 Leachant Replacement Date and Time(d:hr:min) 9/14/99; 9:15
Initial pH of Leachant 2.276 Final pH of Leachate 3.132
Cation Analysis No. T15-031 Dilution Factor

15 Leachant Replacement Date and Time(d:hr:min) 9/17/99; 9:00
Initial pH of Leachant 2.320 Final pH of Leachate 3.550
Cation Analysis No. T16-031 Dilution Factor

16 Leachant Replacement Date and Time(d:hr:min) 9/21/99; 10:00
Initial pH of Leachant 2.330 Final pH of Leachate 3.028
Cation Analysis No. T17-031 Dilution Factor

17 Leachant Replacement Date and Time(d:hr:min) 9/24/99; 10:30
Initial pH of Leachant 2.204 Final pH of Leachate 3.348
Cation Analysis No. T18-031 Dilution Factor

18 Leachant Replacement Date and Time(d:hr:min) 9/28/99; 9:30
Initial pH of Leachant 2.200 Final pH of Leachate 2.992
Cation Analysis No. T19-031 Dilution Factor

19 Leachant Replacement Date and Time(d:hr:min) 10/1/99; 9:30
Initial pH of Leachant 2.175 Final pH of Leachate 3.446
Cation Analysis No. T20-031 Dilution Factor

20 Leachant Replacement Date and Time(d:hr:min) 10/5/99; 9:30
Initial pH of Leachant 2.100 Final pH of Leachate 3.590
Cation Analysis No. T21-031 Dilution Factor

21 Leachant Replacement Date and Time(d:hr:min) 10/8/99; 9:30
Initial pH of Leachant 2.098 Final pH of Leachate 3.028
Cation Analysis No. T22-031 Dilution Factor

22 Leachant Replacement Date and Time(d:hr:min) 10/12/99 9:45
Initial pH of Leachant 2.227 Final pH of Leachate 3.365
Cation Analysis No. T23-031 Dilution Factor

10/14/99

031

23 Leachant Replacement Date and Time(d:hr:min) 10/15/99 ; 9:45
Initial pH of Leachant 2.294 Final pH of Leachate 3.468
Cation Analysis No. T24-031 Dilution Factor

24 Leachant Replacement Date and Time(d:hr:min) 10/26/99 ; 10:00
Initial pH of Leachant 2.330 Final pH of Leachate 5.795
Cation Analysis No. T25-031 Dilution Factor

25 Leachant Replacement Date and Time(d:hr:min) 11/2/99 ; 9:55
Initial pH of Leachant 2.290 Final pH of Leachate 6.105
Cation Analysis No. T26-031 Dilution Factor

26 Leachant Replacement Date and Time(d:hr:min) 11/9/99 ; 9:30
Initial pH of Leachant 2.265 Final pH of Leachate 5.897
Cation Analysis No. T27-031 Dilution Factor

27 Leachant Replacement Date and Time(d:hr:min) 11/16/99 ; 1:00
Initial pH of Leachant 2.205 Final pH of Leachate 5.530
Cation Analysis No. T28-031 Dilution Factor

28 Leachant Replacement Date and Time(d:hr:min) 11/23/99 10:30
Initial pH of Leachant 2.240 Final pH of Leachate 4.435
Cation Analysis No. T29-031 Dilution Factor

29 Leachant Replacement Date and Time(d:hr:min) 11/30/99 10:00
Initial pH of Leachant 2.215 Final pH of Leachate 3.476
Cation Analysis No. T30-031 Dilution Factor

30 Leachant Replacement Date and Time(d:hr:min) 12/7/99 11:15
Initial pH of Leachant 2.436 Final pH of Leachate 3.214
Cation Analysis No. T31-031 Dilution Factor

31 Leachant Replacement Date and Time(d:hr:min) 12/14/99 10:00
Initial pH of Leachant 2.322 Final pH of Leachate 3.130
Cation Analysis No. T32-031 Dilution Factor

32 Leachant Replacement Date and Time(d:hr:min) 12/21/99 10:00
Initial pH of Leachant 3.803 Final pH of Leachate 3.201
Cation Analysis No. T33-031 Dilution Factor

33 Leachant Replacement Date and Time(d:hr:min) 12/28/99 11:15
Initial pH of Leachant 2.258 Final pH of Leachate 3.130
Cation Analysis No. T34-031 Dilution Factor

34 Leachant Replacement Date and Time(d:hr:min) 1/4/00 10:30
Initial pH of Leachant 2.365 Final pH of Leachate 3.161
Cation Analysis No. T35-031 Dilution Factor

35 Leachant Replacement Date and Time(d:hr:min) 1/11/00 10:30
Initial pH of Leachant 2.268 Final pH of Leachate 3.224
Cation Analysis No. T36-031 Dilution Factor

36 Leachant Replacement Date and Time(d:hr:min) 1/18/00 10:50
Initial pH of Leachant 2.364 Final pH of Leachate 3.263
Cation Analysis No. T37-031 Dilution Factor

1/20/00

031

37 Leachant Replacement Date and Time(d:hr:min) 1/25/00 10:45
Initial pH of Leachant 2.242 Final pH of Leachate 3.294
Cation Analysis No. T38-031 Dilution Factor

38 Leachant Replacement Date and Time(d:hr:min) 2/2/00 3pm
Initial pH of Leachant 2.326 Final pH of Leachate 5.125
Cation Analysis No. T39-031 Dilution Factor

39 Leachant Replacement Date and Time(d:hr:min) 2/15/00 10:30
Initial pH of Leachant 2.182 Final pH of Leachate 5.977
Cation Analysis No. T40-031 Dilution Factor

40 Leachant Replacement Date and Time(d:hr:min) 2/29/00 2:30pm
Initial pH of Leachant 2.368 Final pH of Leachate 5.916
Cation Analysis No. T41-031 Dilution Factor

41 Leachant Replacement Date and Time(d:hr:min) 3/14/00 11:00am
Initial pH of Leachant 2.269 Final pH of Leachate 5.816
Cation Analysis No. T42-031 Dilution Factor

42 Leachant Replacement Date and Time(d:hr:min) 3/28/00 10:00 am
Initial pH of Leachant 2.193 Final pH of Leachate 5.174
Cation Analysis No. T43-031 Dilution Factor

43 Leachant Replacement Date and Time(d:hr:min) 4/11/00 2:00 pm
Initial pH of Leachant 2.212 Final pH of Leachate ~~5.054~~ 3.419 4/13/00
Cation Analysis No. T44-031 Dilution Factor

44 Leachant Replacement Date and Time(d:hr:min) 4/25/00 2:00pm
Initial pH of Leachant 2.282 Final pH of Leachate 3.071
Cation Analysis No. T45-031 Dilution Factor

45 Leachant Replacement Date and Time(d:hr:min) 5/9/00 10:30
Initial pH of Leachant 2.236 Final pH of Leachate 3.34
Cation Analysis No. T46-031 Dilution Factor

46 Leachant Replacement Date and Time(d:hr:min) 5/23/00 2:00pm
Initial pH of Leachant 2.261 Final pH of Leachate 3.22
Cation Analysis No. T47-031 Dilution Factor

47 Leachant Replacement Date and Time(d:hr:min) 6/6/00 10:30
Initial pH of Leachant 2.270 Final pH of Leachate 3.29
Cation Analysis No. T48-031 Dilution Factor

6/6/00

48 Leachant Replacement Date and Time(d:hr:min) 6/20/00 1:00pm
Initial pH of Leachant 2.256 Final pH of Leachate 3.604
Cation Analysis No. T49-031 Dilution Factor

49 Leachant Replacement Date and Time(d:hr:min) 7/5/00 8:30
Initial pH of Leachant 2.234 Final pH of Leachate 3.131
Cation Analysis No. T50-031 Dilution Factor

50 Leachant Replacement Date and Time(d:hr:min) 7/18/00 10:30
Initial pH of Leachant 2.207 Final pH of Leachate 3.148
Cation Analysis No. T51-031 Dilution Factor

8/11/00

LONG-TERM TEST DATA SHEET

Test ID SRSLF3-T3

Vessel ID No. 032 Batch Cleaning No. 7-21-99

Glass Sample ID SRS
Sample Weight (g) 3.00159
Sample Preparation Date 7-26-99

Type of Solution 0.0025 M FeCl3
Leachant Volume (ml) 30
Initial pH of Leachant 2.215

Weight of Empty Vessel (g) 126.24570
Weight of Vessel + Sample (g) 129.27025
2nd Weight of Sample (Difference of the last two items) (g) 3.02455
Total Weight of Vessel + Sample + Solution (g) 158.77640

Test Temperature 90°C
Date and Time Test Started (d:hr:min) 7/27/99; 10:20

Final pH of Leachate 8.425
Cation Analysis No. T1-032 Dilution Factor

1 Leachant Replacement Date and Time(d:hr:min) 7/30/99; 9:50
Initial pH of Leachant 2.223 Final pH of Leachate 7.985
Cation Analysis No. T2-032 Dilution Factor

2 Leachant Replacement Date and Time(d:hr:min) 8/3/99; 9:15
Initial pH of Leachant 2.278 Final pH of Leachate 6.855
Cation Analysis No. T3-032 Dilution Factor

3 Leachant Replacement Date and Time(d:hr:min) 8/6/99; 10:05
Initial pH of Leachant 2.132 Final pH of Leachate 6.979
Cation Analysis No. T4-032 Dilution Factor

4 Leachant Replacement Date and Time(d:hr:min) 8/10/99; 10:25
Initial pH of Leachant 2.123 Final pH of Leachate 6.363
Cation Analysis No. T5-032 Dilution Factor

5 Leachant Replacement Date and Time(d:hr:min) 8/13/99; 10:15
Initial pH of Leachant 2.258 Final pH of Leachate 6.472
Cation Analysis No. T6-032 Dilution Factor

6 Leachant Replacement Date and Time(d:hr:min) 8/17/99; 10:12
Initial pH of Leachant 2.158 Final pH of Leachate 5.352
Cation Analysis No. T7-032 Dilution Factor

7 Leachant Replacement Date and Time(d:hr:min) 8/20/99; 8:50
Initial pH of Leachant 2.230 Final pH of Leachate 5.983
Cation Analysis No. T8-032 Dilution Factor

8 Leachant Replacement Date and Time(d:hr:min) 8/24/99; 9:00
Initial pH of Leachant 2.238 Final pH of Leachate 4.613
Cation Analysis No. T9-032 Dilution Factor

8/26/99

C-32

9 Leachant Replacement Date and Time(d:hr:min) 8/27/99; 8:45 ATC 8/31/99
Initial pH of Leachant 2.214 Final pH of Leachate ~~4.891~~ 4.751
Cation Analysis No. T10-032 Dilution Factor

10 Leachant Replacement Date and Time(d:hr:min) 8/31/99; 9:30
Initial pH of Leachant 2.426 Final pH of Leachate 3.358
Cation Analysis No. T11-032 Dilution Factor

11 Leachant Replacement Date and Time(d:hr:min) 9/3/99; 9:30
Initial pH of Leachant 2.336 Final pH of Leachate 3.666
Cation Analysis No. T12-032 Dilution Factor

12 Leachant Replacement Date and Time(d:hr:min) 9/7/99; 9:00
Initial pH of Leachant 2.318 Final pH of Leachate 3.182
Cation Analysis No. T13-032 Dilution Factor

13 Leachant Replacement Date and Time(d:hr:min) 9/10/99; 10:00
Initial pH of Leachant 2.282 Final pH of Leachate 3.754
Cation Analysis No. T14-032 Dilution Factor

14 Leachant Replacement Date and Time(d:hr:min) 9/14/99; 9:15
Initial pH of Leachant 2.276 Final pH of Leachate 3.171
Cation Analysis No. T15-032 Dilution Factor

15 Leachant Replacement Date and Time(d:hr:min) 9/17/99; 9:00
Initial pH of Leachant 2.320 Final pH of Leachate 3.698
Cation Analysis No. T16-032 Dilution Factor

16 Leachant Replacement Date and Time(d:hr:min) 9/21/99; 10:00
Initial pH of Leachant 2.330 Final pH of Leachate 3.072
Cation Analysis No. T17-032 Dilution Factor

17 Leachant Replacement Date and Time(d:hr:min) 9/24/99; 10:30
Initial pH of Leachant 2.204 Final pH of Leachate 3.408
Cation Analysis No. T18-032 Dilution Factor

18 Leachant Replacement Date and Time(d:hr:min) 9/28/99; 9:30
Initial pH of Leachant 2.200 Final pH of Leachate 3.018
Cation Analysis No. T19-032 Dilution Factor

19 Leachant Replacement Date and Time(d:hr:min) 10/1/99; 9:30
Initial pH of Leachant 2.175 Final pH of Leachate 3.503
Cation Analysis No. T20-032 Dilution Factor

20 Leachant Replacement Date and Time(d:hr:min) 10/5/99; 9:30
Initial pH of Leachant 2.100 Final pH of Leachate 3.642
Cation Analysis No. T21-032 Dilution Factor

21 Leachant Replacement Date and Time(d:hr:min) 10/8/99; 9:30
Initial pH of Leachant 2.098 Final pH of Leachate 3.050
Cation Analysis No. T22-032 Dilution Factor

22 Leachant Replacement Date and Time(d:hr:min) 10/12/99 9:45
Initial pH of Leachant 2.227 Final pH of Leachate 3.436
Cation Analysis No. T23-032 Dilution Factor

10/14/99

C32

23 Leachant Replacement Date and Time(d:hr:min) 10/15/99 ; 9:45
Initial pH of Leachant 2.294 — Final pH of Leachate 3.521
Cation Analysis No. T24-032 — Dilution Factor

24 Leachant Replacement Date and Time(d:hr:min) 10/26/99; 10:00
Initial pH of Leachant 2.330 — Final pH of Leachate 5.665
Cation Analysis No. T25-032 — Dilution Factor

25 Leachant Replacement Date and Time(d:hr:min) 11/2/99; 9:55
Initial pH of Leachant 2.290 — Final pH of Leachate 5.992
Cation Analysis No. T26-032 — Dilution Factor

26 Leachant Replacement Date and Time(d:hr:min) 11/9/99; 9:30
Initial pH of Leachant 2.265 — Final pH of Leachate 5.763
Cation Analysis No. T27-032 — Dilution Factor

27 Leachant Replacement Date and Time(d:hr:min) 11/16/99; 1:00
Initial pH of Leachant 2.205 — Final pH of Leachate 4.840
Cation Analysis No. T28-032 — Dilution Factor

28 Leachant Replacement Date and Time(d:hr:min) 11/23/99 10:30
Initial pH of Leachant 2.240 — Final pH of Leachate 3.626
Cation Analysis No. T29-032 — Dilution Factor

29 Leachant Replacement Date and Time(d:hr:min) 11/30/99 10:00
Initial pH of Leachant 2.215 — Final pH of Leachate 3.275
Cation Analysis No. T30-032 — Dilution Factor

30 Leachant Replacement Date and Time(d:hr:min) 12/7/99 11:15
Initial pH of Leachant 2.436 — Final pH of Leachate 3.181
Cation Analysis No. T31-032 — Dilution Factor

31 Leachant Replacement Date and Time(d:hr:min) 12/14/99 10:00
Initial pH of Leachant 2.322 — Final pH of Leachate 3.097
Cation Analysis No. T32-032 — Dilution Factor

32 Leachant Replacement Date and Time(d:hr:min) 12/21/99 10:00
Initial pH of Leachant 3.803 — Final pH of Leachate 3.179
Cation Analysis No. T33-032 — Dilution Factor

33 Leachant Replacement Date and Time(d:hr:min) 12/28/99 11:15
Initial pH of Leachant 2.258 — Final pH of Leachate 3.153
Cation Analysis No. T34-032 — Dilution Factor

34 Leachant Replacement Date and Time(d:hr:min) 1/4/00 10:30
Initial pH of Leachant 2.265 — Final pH of Leachate 3.177
Cation Analysis No. T35-032 — Dilution Factor

35 Leachant Replacement Date and Time(d:hr:min) 1/11/00 10:30
Initial pH of Leachant 2.263 — Final pH of Leachate 3.227
Cation Analysis No. T36-032 — Dilution Factor

36 Leachant Replacement Date and Time(d:hr:min) 1/18/00 10:50
Initial pH of Leachant 2.364 — Final pH of Leachate 3.330
Cation Analysis No. T37-032 — Dilution Factor

1/20/00

032

37 Leachant Replacement Date and Time(d:hr:min) 1/25/00 10:45
Initial pH of Leachant 2.242 — Final pH of Leachate 3.274
Cation Analysis No. T38-032 — Dilution Factor

38 Leachant Replacement Date and Time(d:hr:min) 2/2/00 3pm
Initial pH of Leachant 2.326 — Final pH of Leachate 4.880
Cation Analysis No. T39-032 — Dilution Factor

39 Leachant Replacement Date and Time(d:hr:min) 2/15/00 10:30
Initial pH of Leachant 2.182 — Final pH of Leachate 5.733
Cation Analysis No. T40-032 — Dilution Factor

40 Leachant Replacement Date and Time(d:hr:min) 2/29/00 2:30pm
Initial pH of Leachant 2.368 — Final pH of Leachate 5.580
Cation Analysis No. T41-032 — Dilution Factor

41 Leachant Replacement Date and Time(d:hr:min) 3/14/00 11:00am
Initial pH of Leachant 2.269 — Final pH of Leachate 5.525
Cation Analysis No. T42-032 — Dilution Factor

42 Leachant Replacement Date and Time(d:hr:min) 3/28/00 10:00am
Initial pH of Leachant 2.193 — Final pH of Leachate 5.054
Cation Analysis No. T43-032 — Dilution Factor

43 Leachant Replacement Date and Time(d:hr:min) 4/11/00 2:00 pm
Initial pH of Leachant 2.212 — Final pH of Leachate 4.119
Cation Analysis No. T44-032 — Dilution Factor

44 Leachant Replacement Date and Time(d:hr:min) 4/25/00 2:00 pm
Initial pH of Leachant 2.282 — Final pH of Leachate 3.331
Cation Analysis No. T45-032 — Dilution Factor

45 Leachant Replacement Date and Time(d:hr:min) 5/9/00 10:30
Initial pH of Leachant 2.236 — Final pH of Leachate 3.42
Cation Analysis No. T46-032 — Dilution Factor

46 Leachant Replacement Date and Time(d:hr:min) 5/23/00 2:00pm
Initial pH of Leachant 2.261 — Final pH of Leachate ~~3.30~~ 3.25 — 6/6/00
Cation Analysis No. T47-032 — Dilution Factor

47 Leachant Replacement Date and Time(d:hr:min) 6/6/00 10:30
Initial pH of Leachant 2.270 — Final pH of Leachate ~~3.625~~ 3.30 — 6/6/00
Cation Analysis No. T48-032 — Dilution Factor

48 Leachant Replacement Date and Time(d:hr:min) 6/20/00 1:00pm
Initial pH of Leachant 2.256 — Final pH of Leachate 3.625
Cation Analysis No. T49-032 — Dilution Factor

49 Leachant Replacement Date and Time(d:hr:min) 7/5/00 8:30
Initial pH of Leachant 2.234 — Final pH of Leachate 3.194
Cation Analysis No. T50-032 — Dilution Factor

50 Leachant Replacement Date and Time(d:hr:min) 7/18/00 10:30
Initial pH of Leachant 2.207 — Final pH of Leachate 3.202
Cation Analysis No. T51-032 — Dilution Factor

6/6/00

8/11/00