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Date: 9/28/05 5:48PM
Subject: Today's version of the Sample Log

Please note that the sample results for the 9-27-05 water sample may be skewed high due to adjustments/repairs made to the leakage collection system.

Ron

<<FSB_Sample_Log.xls>>

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Data completed latest 10/5/2005 as per memo.

B-16

Sample Collection Date	Location	Type	Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm	Cs-137/Cs-134 Ratio	K-40 uCi/gm	Tritium Pico Ci/gm
9/6/05 13:00	Against North Wall below Leak at 64' Elev.	Dirt	1.05E-05	3.98E-06	2.92E-04	73	1.64E-05	176.0
9/6/05 13:00	1 ft from N. Wall Below Leak at 64' Elev.	Dirt	1.15E-06	ND	1.61E-05	NA	1.49E-05	40.3
9/6/05 13:00	2 ft from N. Wall Below Leak at 64' Elev.	Dirt	2.42E-07	ND	5.07E-07	NA	1.48E-05	7.0
9/6/05 13:00	3 ft from N. Wall Below Leak at 64' Elev.	Dirt	ND	ND	1.19E-07	NA	1.95E-05	7.1
9/8/05 14:00	Against North Wall below Leak at 64' Elev. 1 ft depth	Dirt	5.90E-06	3.54E-06	1.63E-04	46	1.79E-05	
9/8/05 14:00	1 ft from N. Wall Below Leak at 64' Elev. 1 ft depth	Dirt	1.19E-06	1.82E-07	1.09E-05	60	1.44E-05	
9/8/05 14:00	2 ft from N. Wall Below Leak at 64' Elev. 1 ft depth	Dirt	ND	ND	9.44E-08	NA	1.48E-05	
9/8/05 14:00	Against North Wall below Leak at 64' Elev. 2 ft depth	Dirt	1.38E-05	1.43E-05	6.00E-04	42	2.73E-05	
9/8/05 14:00	2 ft from N. Wall Below Leak at 64' Elev. 2 ft depth	Dirt	ND	ND	ND	NA	1.33E-05	
9/12/05 10:45	Sample (1) Grid 8B&C	Dirt	ND	ND	7.87E-08	NA	1.74E-05	
9/12/05 11:00	Sample (2) Grid 8B&C	Dirt	ND	ND	ND	NA	2.04E-05	
9/12/05 11:13	Sample (3) Grid 7B&C	Dirt	ND	ND	2.73E-07	NA	1.57E-05	
9/12/05 11:25	Sample (4) Grid 7B&C	Dirt	ND	ND	4.36E-07	NA	1.83E-05	
9/12/05 12:30	Sample (5) Grid B8	Dirt	ND	ND	3.40E-07	NA	1.43E-05	
9/12/05 13:15	Sample (6) Grid BC7	Dirt	ND	ND	1.51E-07	NA	1.56E-05	
9/12/05 13:27	Sample (7) Grid BC6	Dirt	ND	ND	1.72E-07	NA	1.82E-05	
9/12/05 13:45	Sample (8) Grid C1&2 (to LSA Crate) <MDA Co-60 ~1.5E-7 only 1 peak found	Dirt	ND	ND	1.53E-07	NA	1.02E-05	
9/12/05 14:02	Sample (9) Grid AB1	Dirt	ND	ND	ND	NA		
9/12/05 14:30	Sample (10) Grid B1	Dirt	ND	ND	1.53E-07	NA	7.00E-06	
9/12/05 14:45	Sample (11) Grid B1&2	Dirt	ND	ND	ND	NA	7.26E-06	
9/13/05 10:15	FSB Dirt by 60' Elev leak. Contact with wall	Dirt	2.17E-06	1.01E-06	3.60E-05	36	7.81E-06	

Sample Collection Date	Location	Type	Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm	Cs-137/Cs-134 Ratio	K-40 uCi/gm	Tritium Pico Ci/gm
9/13/05 10:15	FSB Dirt by 60' Elev leak. 1' from wall	Dirt	1.36E-06	ND	1.14E-05	NA	1.31E-05	
9/13/05 10:15	FSB Dirt by 60' Elev leak. 2' from wall	Dirt	ND	ND	3.07E-07	NA	6.49E-06	
9/15/05 13:30	FSB Dirt Sample (1) Grid 8B&C	Dirt	ND	ND	ND	NA	2.36E-05	
9/15/05 13:45	FSB Dirt Sample (2) Grid 7B&C	Dirt	ND	ND	6.20E-08	NA	1.60E-05	
9/15/05 14:00	FSB Dirt Sample (3) Grid 7B&C	Dirt	ND	ND	ND	NA	2.71E-05	
9/15/05 14:15	FSB Dirt Sample (4) Grid 6B&C	Dirt	ND	ND	1.67E-07	NA	1.58E-05	
9/15/05 14:15	FSB Dirt Sample (5) Grid 5B&C	Dirt	ND	ND	7.72E-08	NA	1.41E-05	
9/16/05 14:00	FSB Rock - Suspected NORM	Rock	ND	ND	ND	NA	3.29E-05	
9/19/05 11:20	FSB Dirt Sample (1) Grid C-1,2&3	Dirt	ND	ND	ND	NA	2.06E-05	
9/19/05 11:40	FSB Dirt Sample (2) Grid B&C-2&3	Dirt	ND	ND	6.94E-08	NA	1.52E-05	
9/19/05 12:45	FSB Dirt Sample (3) Grid B&C-3	Dirt	ND	ND	ND	NA	9.54E-06	
9/19/05 13:10	FSB Dirt Sample (4) Grid B&C-4	Dirt	ND	ND	ND	NA	1.46E-05	
9/19/05 13:10	FSB Dirt Sample (5) Grid B&C-4	Dirt	ND	ND	ND	NA	1.65E-05	
9/23/05 14:15	FSB Dirt Sample Grid ABC-234	Dirt	ND	ND	ND	NA	1.90E-05	
9/26/05 13:00	FSB Dirt Sample Grid C-1 55' Elev. Note: This was supposed to be a set of profile samples Contact, 1 ft, 2 ft & 3 ft from the wall, but there was only enough dirt for one sample bottle. The rest of the material was rock.	Dirt	1.25E-05	8.66E-06	2.99E-04	34	5.71E-06	

Sample Collection Date	Location	Type	Co-60 uCi/gm	Cs-134uCi/gm	Cs-137 uCi/gm	Cs-137/Cs- 134 Ratio	Boron ppm	Tritium
9/8/05 9:30	Water under Plastic North Wall C-1	Water - not a valid counting geometry -	ND	ND	1.09E-04	NA	NA	1.64E-05
9/13/05 10:30	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 12mLi	water - not a valid counting geometry 20% Detector 10 min.	ND	ND	8.43E-04	NA	1265	
9/13/05 10:30	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 12mLi	water - not a valid counting geometry - Potential trace level of Cs-134 Identified after spectrum reanalyzed 20% Detector 10 min.	ND	1.08E-05	7.47E-05	7	1265	
9/13/05 10:30	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 12mLi - Tritium through filter	Toray Filter Media - from sample water - Potential trace level of Cs-134 - 20% Detector 30 Min.	ND	2.99E-06	1.48E-05	5	NA	2.10E-02
9/13/05 10:30	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 12mLi - Tritium through distillation & 50 to 7.85 dilution	Toray Filter Media - from sample water - Potential trace level of Cs-134 - 20% Detector 30 Min.	ND	2.99E-06	1.48E-05	5	NA	2.04E-02
9/13/05 10:30	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 12mLi	Toray Filter Media - from sample water - Analyzed on 40% Detector 1 hour count	ND	ND	1.85E-05	NA		
9/14/05 9:00	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 4 mLi	Not a valid geometry. 20% IP-2 Detector used.	ND	ND	4.59E-04	NA		
9/16/05 10:30	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 173mLi	Raw Water - Sediment in bottom. Geometry may not be valid. 40% Detector	3.82E-07	1.46E-06	3.17E-05	22	1786	2.20E-02
9/16/05 10:30	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 173mLi	Filtrate - from sample water				NA	1794	2.20E-02
9/16/05 10:30	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 173mLi	Distilled Filtrate - from sample water				NA		2.13E-02

Sample Collection Date	Location	Type	Co-60 uCi/gm	Cs-134uCi/gm	Cs-137 uCi/gm	Cs-137/Cs- 134 Ratio	Boron ppm	Tritium
9/16/05 10:30	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 173mLi	Toray Filter Media - from sample water - Note: Co-60 rejected activity due to missing peak	7.05E-08	2.32E-07	3.80E-06	16		
9/19/05 9:00	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 500 mLi	Raw Water - Co-60 Confirming peak not found - 40% Detector - 1 hour count	9.42E-08	6.86E-07	1.14E-05	17	1769	2.20E-02
9/21/05 9:00	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 500 mLi	Raw Water - 20% Detector - 1 hour count	ND	6.77E-07	8.89E-06	13	1432	
9/21/05 9:00	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 500 mLi	20 mLi aliquot through Toray Filter - 40% Detector - 1/2 hour count	ND	ND	5.07E-06	NA		2.17E-02
9/21/05 9:00	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 500 mLi	Raw Water - 40% Detector - 1 hour count - Co-60 only one peak identified	1.26E-07	5.44E-07	9.52E-06	17	1965	
9/22/05 9:00	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 419 mLi	Raw Water - 40% Detector - 1 hour count	8.13E-08	7.35E-07	1.06E-05	14	2080	
9/23/05 9:30	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 407 mLi	Raw Water - 40% Detector - 1 hour count	1.73E-07	6.76E-07	1.14E-05	17	2375	
9/23/05 9:30	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 407 mLi	Toray Filter 20 mLi - 40% Detector - 1 hour count	ND	ND	5.82E-06	NA	2375	e-
9/26/05 8:45	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 ~1500 mLi from 09:930 9-23-05 to 08:45 9-26-05	Raw Water - 40% Detector - 1 hour count - Co-60 only one peak identified	5.67E-08	5.40E-07	7.89E-06	15	2045	2.05E-02
9/26/05 8:45	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 ~1500 mLi from 09:930 9-23-05 to 08:45 9-26-05	Filtrate of 500 mLi portion - 40% Detector - 1 hour count - Co-60 only one peak identified	9.16E-08	4.67E-07	8.28E-06	18		

Sample Collection Date	Location	Type	Co-60 uCi/gm	Cs-134uCi/gm	Cs-137 uCi/gm	Cs-137/Cs- 134 Ratio	Boron ppm	Tritium
9/26/05 8:45	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 ~1500 mLi from 09:30 9-23-05 to 08:45 9-26-05	Toray Filter of 500 mLi portion - 40% Detector - 1 hour count	ND	1.69E-05	1.43E-04	8		
9/27/05 8:45	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 ~205 mLi - Notes: Collection system failed. Collection method may have caused collection of material plated on wall into water sample.	~205 mLi - 40% Detector - 1 hour count	1.06E-06	2.85E-06	3.67E-05	13	2700	1.84E-02
9/28/05 8:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 1000 mLi - Notes: Collection system changed. Collection method may have caused collection of material plated on wall into water sample.	~1000 mLi - 40% Detector - 1 hour count	3.58E-07	5.77E-07	1.32E-05	23	2720	2.00E-02

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Sample Date-time	Location	Type	Co-60 uCi	Cs-134 uCi	Cs-137 uCi	Cs-137/Cs-134 Ratio
9/1/05 2:00 PM	N. Wall at leak at 64' Elev.	Scraping of wall	2.22E-03	5.06E-03	8.07E-02	16

Date	Sample of Hole Drilled in North FSB Wall	pH	Co-60 uCi/gm	Cs-134uCi/gm	Cs-137 uCi/gm	Cs-137/Cs-134 Ratio	Iron ppm leachate	Boron ppm leachate
09/07/05	(1) Base line	11.74	ND	ND	ND	NA	96	159
09/07/05	(2) First 2" (0-2") of crack at 64' Elev.	10.7	8.31E-05	2.65E-05	1.65E-03	62	628	72
09/07/05	(3) Second 2" (2-4") of crack at 64' Elev.	11.46	4.04E-05	1.39E-05	8.46E-04	61	640	56
09/07/05	(4) Third 2" (4-6") of crack at 64' Elev.	11.75	1.02E-05	ND	1.27E-04	NA	3285	28
09/07/05	(5) Fourth 2" (6-8") of crack at 64' Elev.	11.79	ND	ND	1.75E-05	NA	60	226

Sample Date	Location		Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm	Cs-137/Cs-134 Ratio
09/12/2005 10:30	East Core bore hole at 64' Elev.	rock-dust	ND	2.47E-05	1.38E-04	6
09/12/2005 10:30	West Core bore hole at 64' Elev.	rock-dust	6.11E-06	2.97E-05	1.80E-04	6

Sample Date	Location		Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm	Cs-137/Cs-134 Ratio
09/13/2005 17:00	IP-2 Pipe Penn Mezzanine to Section 1 - Wall Crack	Scraping - Dry powder 1.42 gm	1.16E-04	1.47E-05	2.95E-04	20

Sample Collection Date	Location		Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm	Cs-137/Cs-134 Ratio	Sb-125
09/21/2005 9:00	IP2 FSB Outside North East Wall - Note: Listed as Northwest wall on Analysis sheet	Scraping - Dry powder 4.29 gm 1/2 Hour Count	NA	NA	2.59E-06	NA	3.16E-05
09/21/2005 9:00	IP2 FSB Outside North East Wall	Scraping - Dry powder 4.29 gm - Recount for 1 hour 40% detector	6.86E-06	ND	7.11E-06	NA	3.03E-05

09/23/2005 15:40	IP2 FSB Outside North East Wall - 10' Elev. Sample #1	Scraping - Dry powder 1.18 gm - 1 hour 40% detector	2.46E-05	ND	1.59E-05	NA	ND
09/23/2005 15:40	IP2 FSB Outside North East Wall - 7' Elev. Sample #2	Scraping - Dry powder 1.4 gm - 1 hour 40% detector	4.59E-04	ND	1.20E-04	NA	ND
09/23/2005 15:40	IP2 FSB Outside North East Wall - 4' Elev. Sample #3	Scraping - Dry powder 0.57 gm - 1 hour 40% detector	ND	ND	1.30E-05	NA	ND
09/26/2005 12:00	IP2 FSB Outside North East Wall - 1' Elev.	Scraping - Dry powder - 1 hour 40% detector - No Weight Taken	ND	ND	1.45E-05	NA	ND

Sample Date	Location		Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm	Cs-137/Cs-134 Ratio	Boron ppm
9-22-05 1100	IP2 FSB West Wall C-1	Scraping - Dry powder 4.29 gm	NA	NA	1.05E-05	NA	2.03E+02

Sample Collection Date	Location	Type	Co-60 uCi	Cs-134 uCi	Cs-137 uCi	Cs-137/Cs-134 Ratio
9/1/05 10:00 AM	N. Wall at leak at 64' Elev.	Large Area Smear	ND	3.03E-04	1.92E-03	6
9/1/05 10:12 AM	N. Wall at leak at 64' Elev.	Large Area Smear	ND	6.24E-04	4.64E-03	7
9/1/05 12:00 PM	N. Wall at leak at 64' Elev.	Large Area Smear	ND	ND	1.68E-03	NA
9/2/05 1:30 PM	N. Wall at leak at 64' Elev.	Large Area Smear	ND	ND	1.17E-03	NA
9/2/05 1:30 PM	N. Wall at leak at 64' Elev.	Large Area Smear	ND	ND	1.17E-03	NA
9/13/05 10:30 AM	N. Wall at leak at 60' Elev.	Large Area Smear	6.64E-04	5.34E-04	8.71E-03	16
9/14/05 9:00 AM	N. Wall at leak at 60' C-1 Elev. LAS-1 40% Detector 30 Min.	Large Area Smear	1.93E-04	1.84E-04	5.68E-03	31
9/14/05 9:00 AM	N. Wall at leak at 64' Elev. C-1 LAS-2 20% Detector 30 Min.	Large Area Smear	ND	ND	2.61E-04	NA
9/14/05 9:00 AM	N. Wall at leak at 61' Elev. C-1 LAS-3 40% Detector 30 Min.	Large Area Smear	1.44E-03	1.14E-03	2.40E-02	21

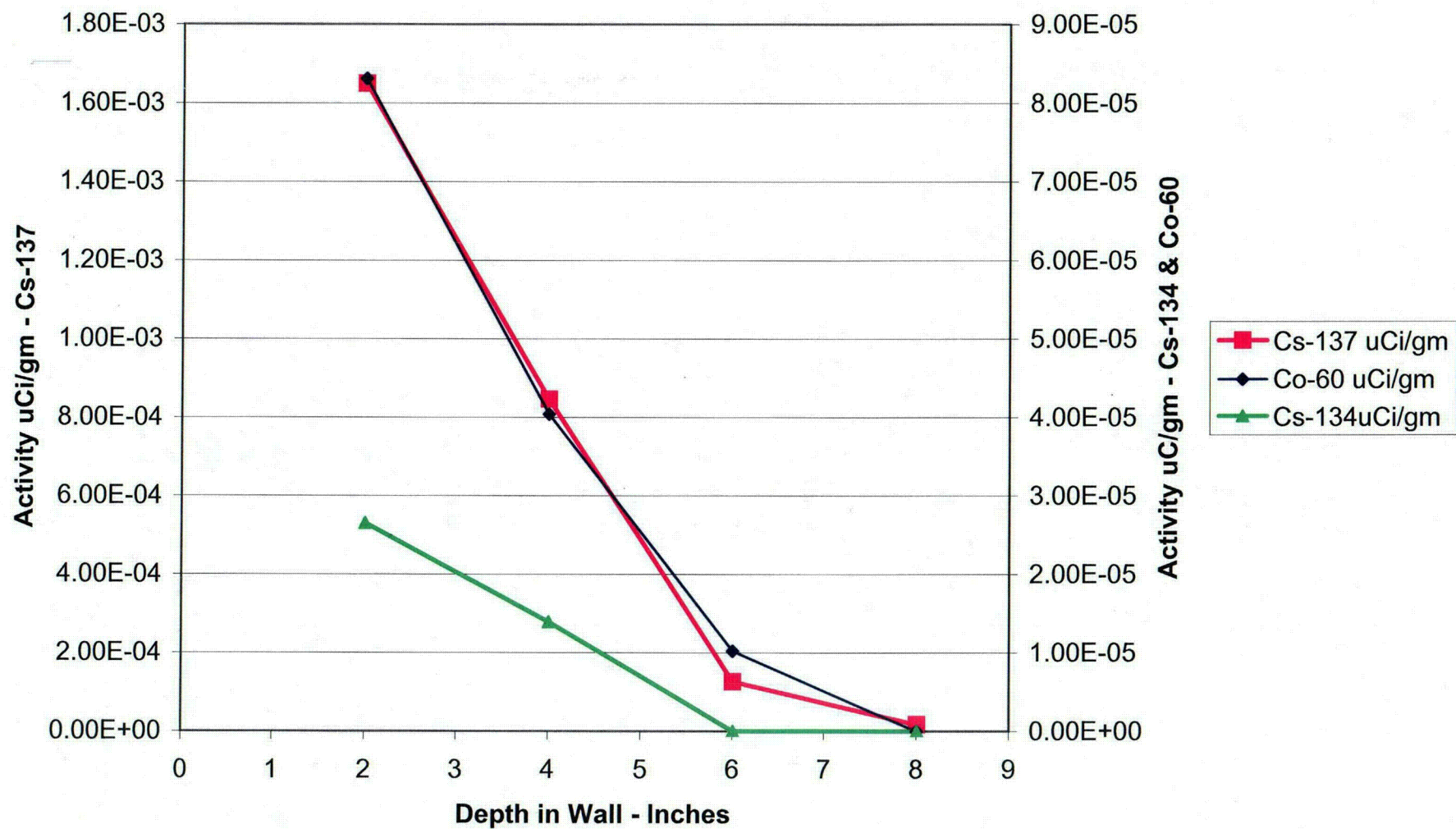
		North						
West		1	2	3	4	5	8	East
	C							
	B							
	A							

South

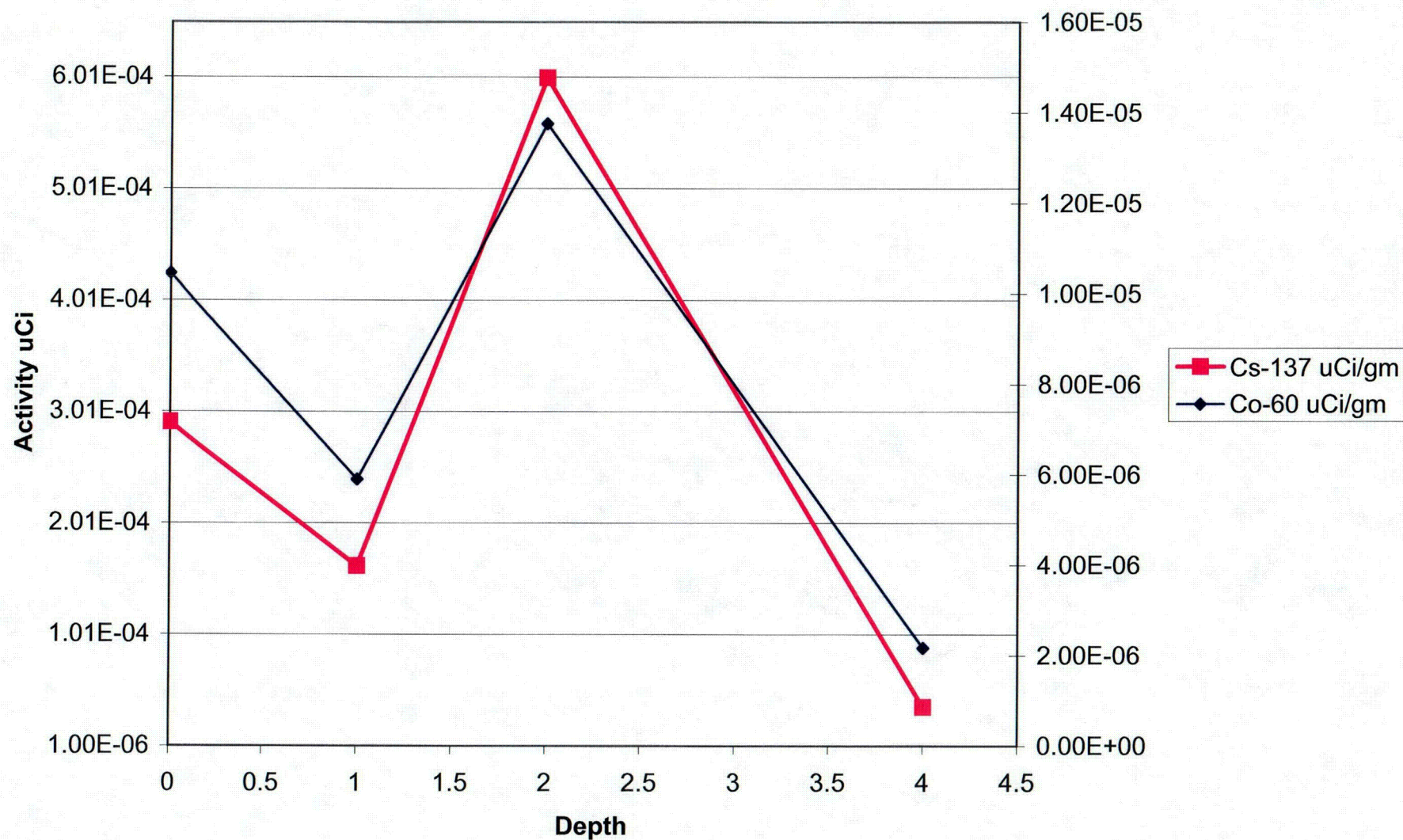
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Sample Collection Date	Location	Type	Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm	Cs-137/Cs-134 Ratio	K-40 uCi/gm
9/7/05 1:00 PM	Outside MOB Dirt on Hill area 1	Dirt	ND	ND	8.75E-08	NA	
9/7/05 1:00 PM	Outside MOB Dirt on Hill area 2	Dirt	ND	ND	ND	NA	
9/7/05 1:00 PM	Outside MOB Dirt on Hill area 3	Dirt	ND	ND	1.03E-07	NA	
9/7/05 1:00 PM	Outside MOB Dirt on Hill area 4	Dirt	ND	ND	5.61E-07	NA	
9/8/05 10:00 AM	Outside MOB Dirt on Hill area 4 Re-sample	Dirt	ND	ND	2.18E-07	NA	
9/13/05 8:30 AM	NE1 Sector Post Remediation 95' Hill	Dirt	2.05E-07	ND	1.45E-07	NA	1.16E-05
9/13/05 8:30 AM	NE2 Sector Post Remediation 95' Hill	Dirt	ND	ND	ND	NA	1.73E-05
9/20/05 9:45 AM	NE1 Sector Post Remediation 95' Hill 2nd sample Sample #1	Dirt	4.92E-07	ND	5.31E-07	NA	9.86E-06
9/20/05 9:45 AM	NE1 Sector Post Remediation 95' Hill 2nd Sample Sample # 2	Dirt	5.55E-07	ND	3.87E-07	NA	1.09E-05

1/2" Drilled Hole - Activity vs Depth into Wall

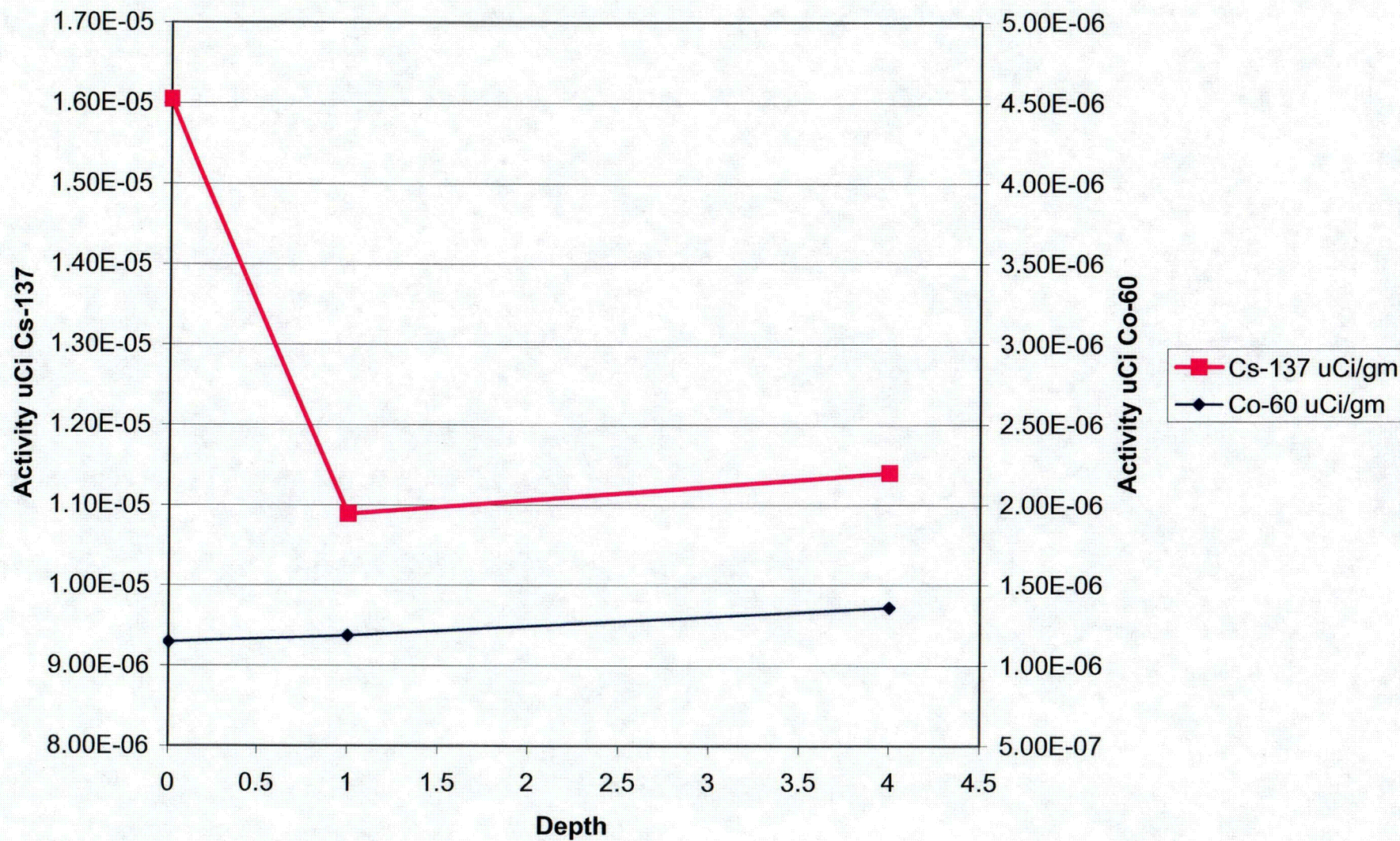


Activity vs Depth - Wall Contact

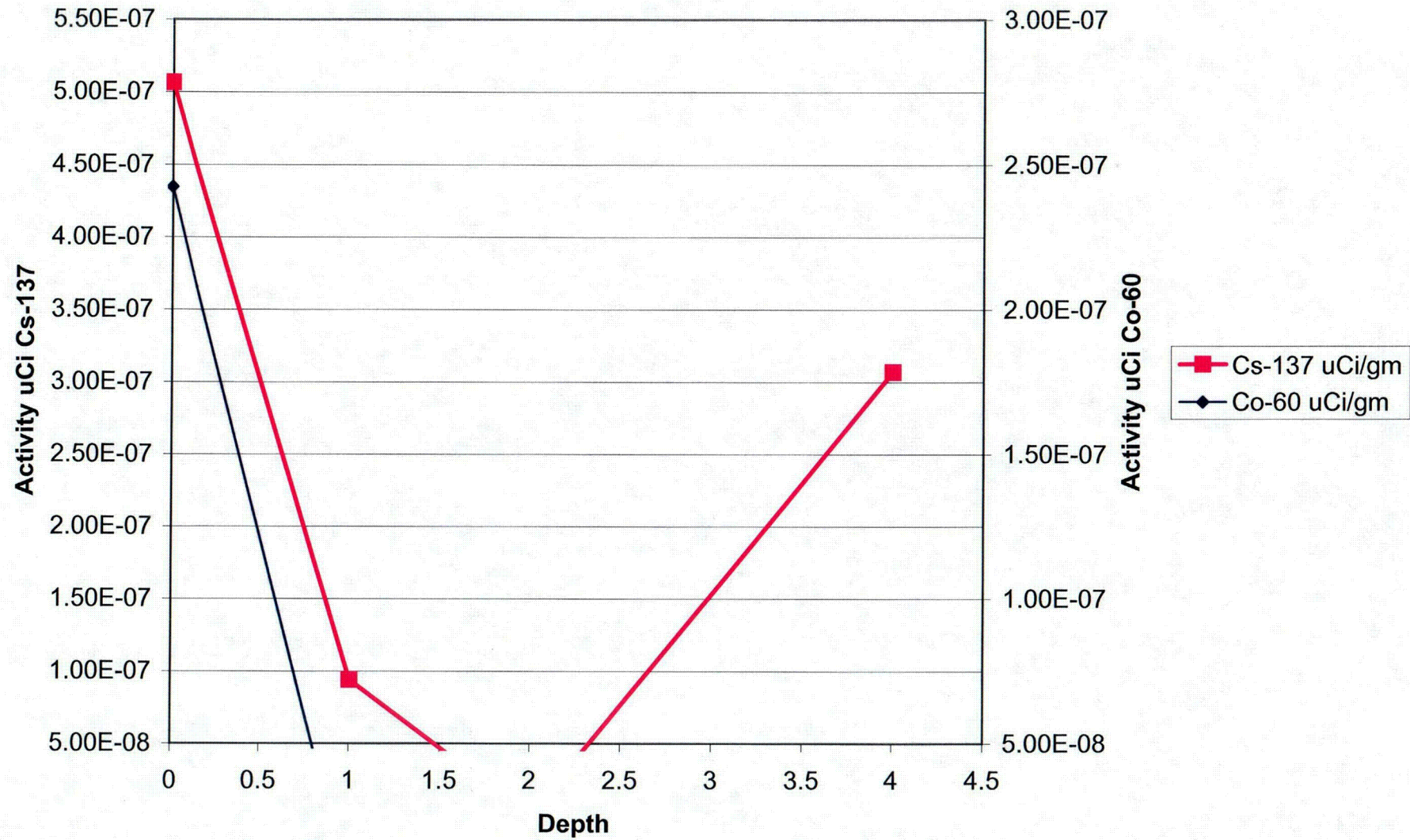


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Activity vs Depth - 1 Foot from Wall



Activity vs Depth - 2 Foot from Wall



Sample Date-time	Location	Type	Co-60 uCi	Cs-134 uCi	Cs-137 uCi	Cs-137/Cs-134 Ratio	
9/1/05 10:00 AM	N. Wall at leak at 64' Elev.	Large Area Smear	ND	3.03E-04	1.92E-03	6	
9/1/05 10:12 AM	N. Wall at leak at 64' Elev.	Large Area Smear	ND	6.24E-04	4.64E-03	7	
9/1/05 12:00 PM	N. Wall at leak at 64' Elev.	Large Area Smear	ND	ND	1.68E-03	NA	
9/13/05 10:30 AM	N. Wall at leak at 60' Elev.	Large Area Smear	6.64E-04	5.34E-04	8.71E-03	16	
9/1/05 2:00 PM	N. Wall at leak at 64' Elev.	Scraping of wall	2.22E-03	5.06E-03	8.07E-02	16	
9/2/05 1:30 PM	N. Wall at leak at 64' Elev.	Large Area Smear	ND	ND	1.17E-03	NA	
9/2/05 1:30 PM	N. Wall at leak at 64' Elev.	Large Area Smear	ND	ND	1.17E-03	NA	
9/7/05 1:00 PM	Outside MOB Dirt on Hill area 1	Dirt	ND	ND	8.75E-08	NA	
9/7/05 1:00 PM	Outside MOB Dirt on Hill area 2	Dirt	ND	ND	ND	NA	
9/7/05 1:00 PM	Outside MOB Dirt on Hill area 3	Dirt	ND	ND	1.03E-07	NA	
9/7/05 1:00 PM	Outside MOB Dirt on Hill area 4	Dirt	ND	ND	5.61E-07	NA	
9/8/05 10:00 AM	Outside MOB Dirt on Hill area 4 Re-sample	Dirt	ND	ND	2.18E-07	NA	

Date	Sample of Hole Drilled in North FSB Wall	pH	Co-60 uCi/gm	Cs-134uCi/gm	Cs-137 uCi/gm	Cs-137/Cs-134 Ratio	Iron ppm leachate	Boron ppm leachate
09/07/05	(1) Base line	11.74	ND	ND	ND	NA	96	159
09/07/05	(2) First 2" (0-2") of crack at 64' Elev.	10.7	8.31E-05	2.65E-05	1.65E-03	62	628	72
09/07/05	(3) Second 2" (2-4") of crack at 64' Elev.	11.46	4.04E-05	1.39E-05	8.46E-04	61	640	56
09/07/05	(4) Third 2" (4-6") of crack at 64' Elev.	11.75	1.02E-05	ND	1.27E-04	NA	3285	28
09/07/05	(5) Fourth 2" (6-8") of crack at 64' Elev.	11.79	ND	ND	1.75E-05	NA	60	226

		Tritium	Co-60 uCi/gm	Cs-134uCi/gm	Cs-137 uCi/gm	Cs-137/Cs-134 Ratio
9/8/05 9:30 AM	Water under Plastic North Wall C-1		ND	ND	1.09E-04	NA

Sample Date	Location		Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm	Cs-137/Cs-134 Ratio	K-40 uCi/gm	Tritium pico Ci/gm
9/6/05 1:00 PM	Against North Wall below Leak at 64' Elev.	Dirt	1.05E-05	3.98E-06	2.92E-04	73		176.0
9/6/05 1:00 PM	1 ft from N. Wall Below Leak at 64' Elev.	Dirt	1.15E-06	ND	1.61E-05	NA	1.49E-05	40.3

9/6/05 1:00 PM	2 ft from N. Wall Below Leak at 64' Elev.	Dirt	2.42E-07	ND	5.07E-07	NA		7.0
9/6/05 1:00 PM	3 ft from N. Wall Below Leak at 64' Elev.	Dirt	ND	ND	1.19E-07	NA	1.95E-05	7.1

Sample Date	Location		Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm	Cs-137/Cs-134 Ratio	K-40 uCi/gm
9/8/05 2:00 PM	Against North Wall below Leak at 64' Elev. 1 ft depth	Dirt	5.90E-06	3.54E-06	1.63E-04	46	1.79E-05
9/8/05 2:00 PM	1 ft from N. Wall Below Leak at 64' Elev. 1 ft depth	Dirt	1.19E-06	1.82E-07	1.09E-05	60	1.44E-05
9/8/05 2:00 PM	2 ft from N. Wall Below Leak at 64' Elev. 1 ft depth	Dirt	ND	ND	9.44E-08	NA	1.48E-05
9/8/05 2:00 PM	Against North Wall below Leak at 64' Elev. 2 ft depth	Dirt	1.38E-05	1.43E-05	6.00E-04	42	2.73E-05
9/8/05 2:00 PM	2 ft from N. Wall Below Leak at 64' Elev. 2 ft depth	Dirt	ND	ND	ND	NA	1.33E-05

Sample Date	Location		Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm	Cs-137/Cs-134 Ratio
9/1/05 2:00 PM	N. Wall at leak at 64' Elev.	Scraping of wall	2.22E-03	5.06E-03	8.07E-02	16
09/12/2005 10:30	East Core bore hole at 64' Elev.	rock-dust	ND	2.47E-05	1.38E-04	6
09/12/2005 10:30	West Core bore hole at 64' Elev.	rock-dust	6.11E-06	2.97E-05	1.80E-04	6

Sample Date	Location		Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm	Cs-137/Cs-134 Ratio	K-40
9/12/05 10:45 AM	Sample (1) Grid 8B&C	Dirt	ND	ND	7.87E-08	NA	
9/12/05 11:00 AM	Sample (2) Grid 8B&C	Dirt	ND	ND	ND	NA	
9/12/05 11:13 AM	Sample (3) Grid 7B&C	Dirt	ND	ND	2.73E-07	NA	
9/12/05 11:25 AM	Sample (4) Grid 7B&C	Dirt	ND	ND	4.36E-07	NA	
9/12/05 12:30 PM	Sample (5) Grid B8	Dirt	ND	ND	3.40E-07	NA	
9/12/2005 13:15:00 PM	Sample (6) Grid BC7	Dirt	ND	ND	1.51E-07	NA	
9/12/2005 13:27:00 PM	Sample (7) Grid BC6	Dirt	ND	ND	1.72E-07	NA	
9/12/2005 13:45:00 PM	Sample (8) Grid C1&2 (to LSA Crate) <MDA Co-60 ~1.5E-7 only 1 peak found	Dirt	ND	ND	1.53E-07	NA	
9/12/2005 14:02:00 PM	Sample (9) Grid AB1	Dirt	ND	ND	ND	NA	
9/12/2005 14:30:00 PM	Sample (10) Grid B1	Dirt	ND	ND	1.53E-07	NA	

9/12/2005 14:45:00 PM	Sample (11) Grid B1&2	Dirt	ND	ND	ND	NA	
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Sample Date	Location		Co-60 uCi	Cs-134 uCi	Cs-137 uCi	Boron ppm	Tritium	Cs-137/Cs-134 Ratio
09/13/2005 10:30	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 12mLI	water - not a valid counting geometry - Potential trace level of Cs-134	ND	1.08E-05	7.47E-05	1265		7
09/13/2005 10:30	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 12mLI	Filtrate - from sample water - Potential trace level of Cs-134	ND	2.99E-06	1.48E-05	NA		5

Sample Date	Location		Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm	Boron ppm	Cs-137/Cs-134 Ratio
09/13/2005 17:00	IP-2 Pipe Penn Mezzanine to Section 1 - Wall Crack	Scraping - Dry powder 1.42 gm	1.16E-04	1.47E-05	2.95E-04		20

Sample Date	Distance from wall	Depth	Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm
09/06/2005	0	0	1.05E-05	3.98E-06	2.92E-04
09/08/2005	0	1	5.90E-06	3.54E-06	1.63E-04
09/08/2005	0	2	1.38E-05	1.43E-05	6.00E-04
09/13/2005	0	4	2.17E-06	1.01E-06	3.60E-05

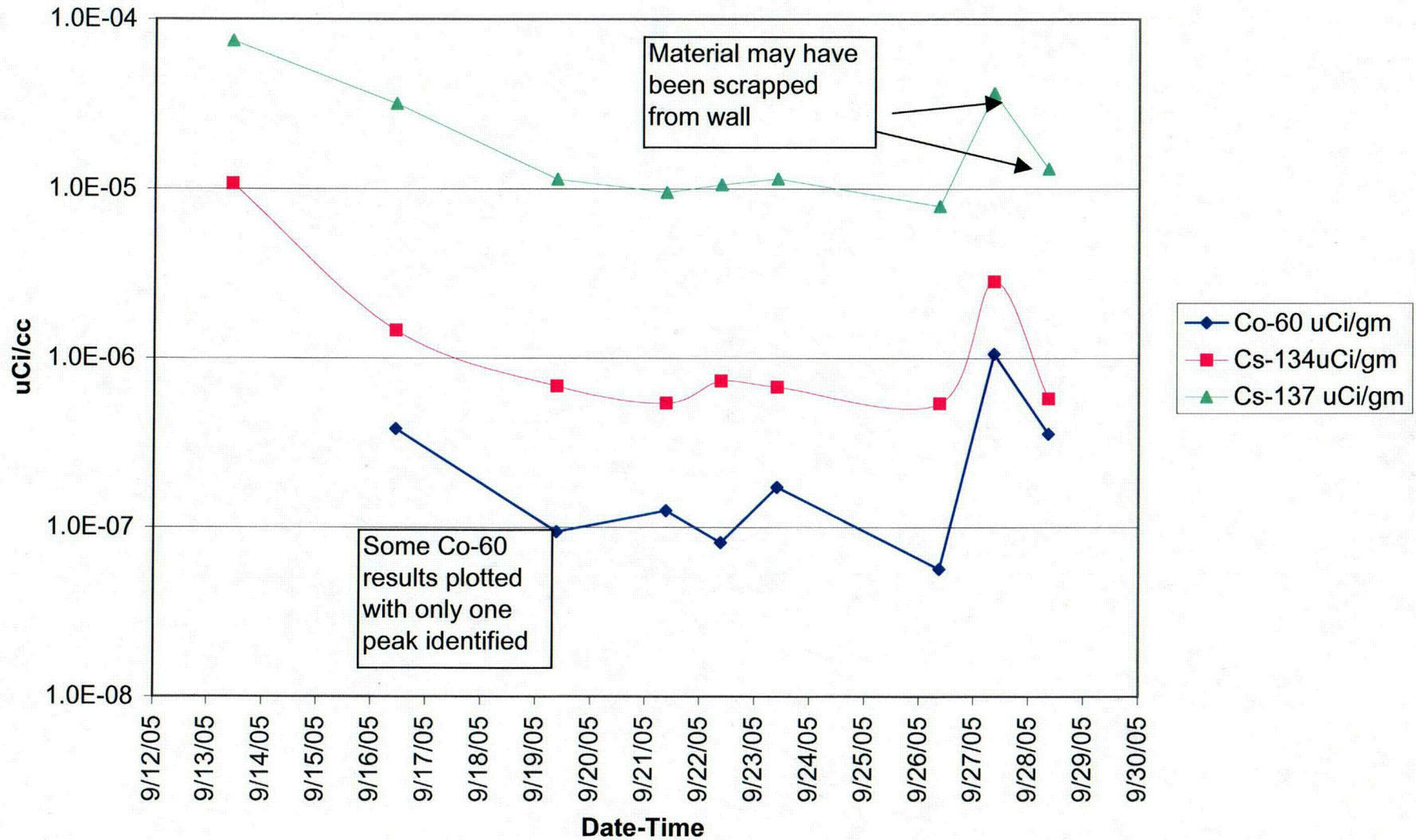
Sample Date	Distance from wall	Depth	Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm
09/06/2005	1	0	1.15E-06	ND	1.61E-05
09/08/2005	1	1	1.19E-06	1.82E-07	1.09E-05
09/13/2005	1	4	1.36E-06	ND	1.14E-05

Sample Date	Distance from wall	Depth	Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm
09/06/2005	2	0	2.42E-07	ND	5.07E-07
09/08/2005	2	1	ND	ND	9.44E-08
09/08/2005	2	2	ND	ND	ND
09/13/2005	2	4	ND	ND	3.07E-07

<u>Date</u>	<u>Sample of Hole Drilled in North</u> <u>FSB Wall</u>	<u>Detph of Hole</u> <u>In Wall</u>	<u>pH</u>	<u>Co-60 uCi/gm</u>	<u>Cs-134uCi/gm</u>
09/07/05	(1) Base line	2	11.74	ND	ND
09/07/05	(2) First 2" (0-2") of crack	2	10.7	8.31E-05	2.65E-05
09/07/05	(3) Second 2" (2-4") of crack	4	11.46	4.04E-05	1.39E-05
09/07/05	(4) Third 2" (4-6") of crack	6	11.75	1.02E-05	ND
09/07/05	(5) Fourth 2" (6-8") of crack	8	11.79	ND	ND

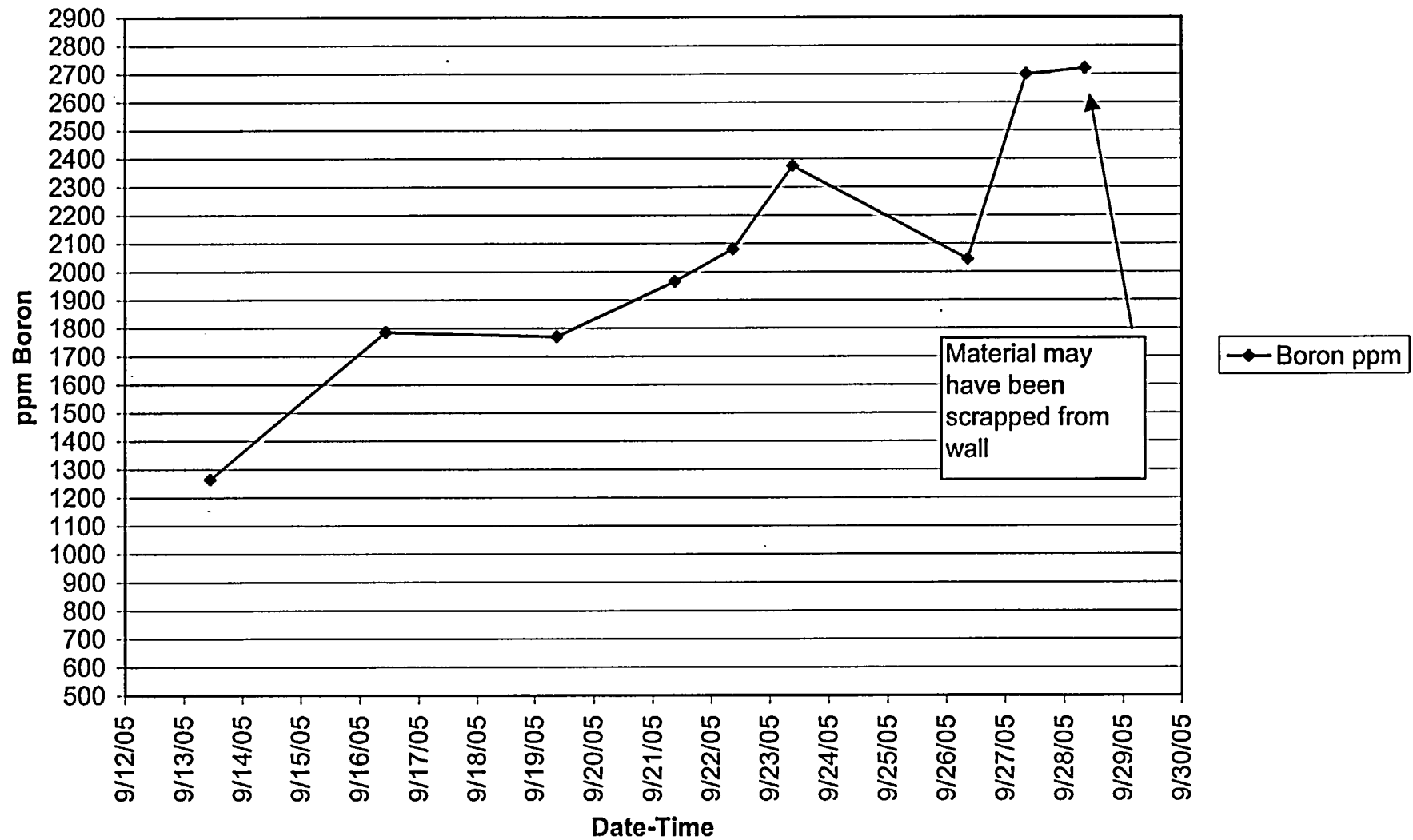
Material
may have
been

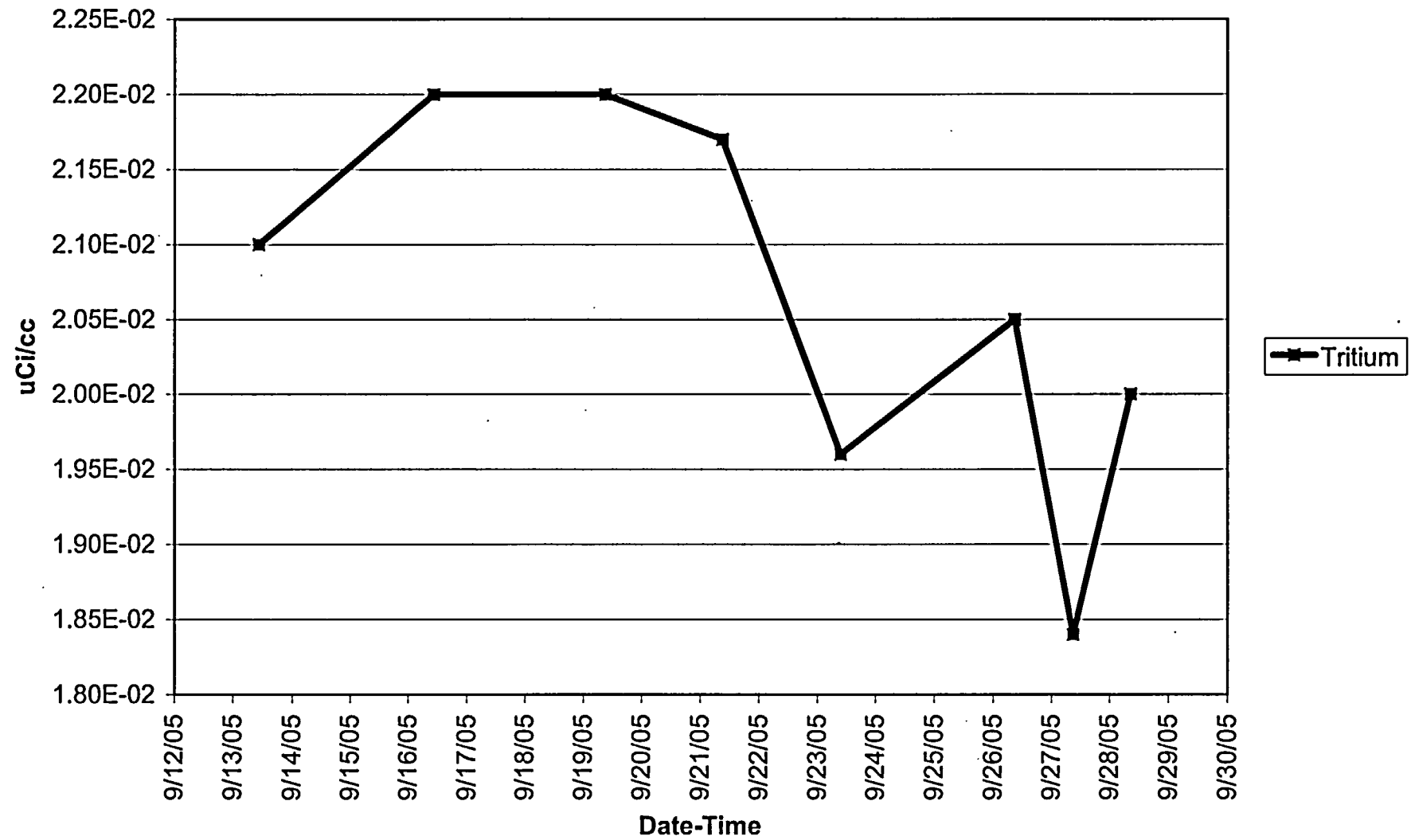
FSB Crack Water Activity



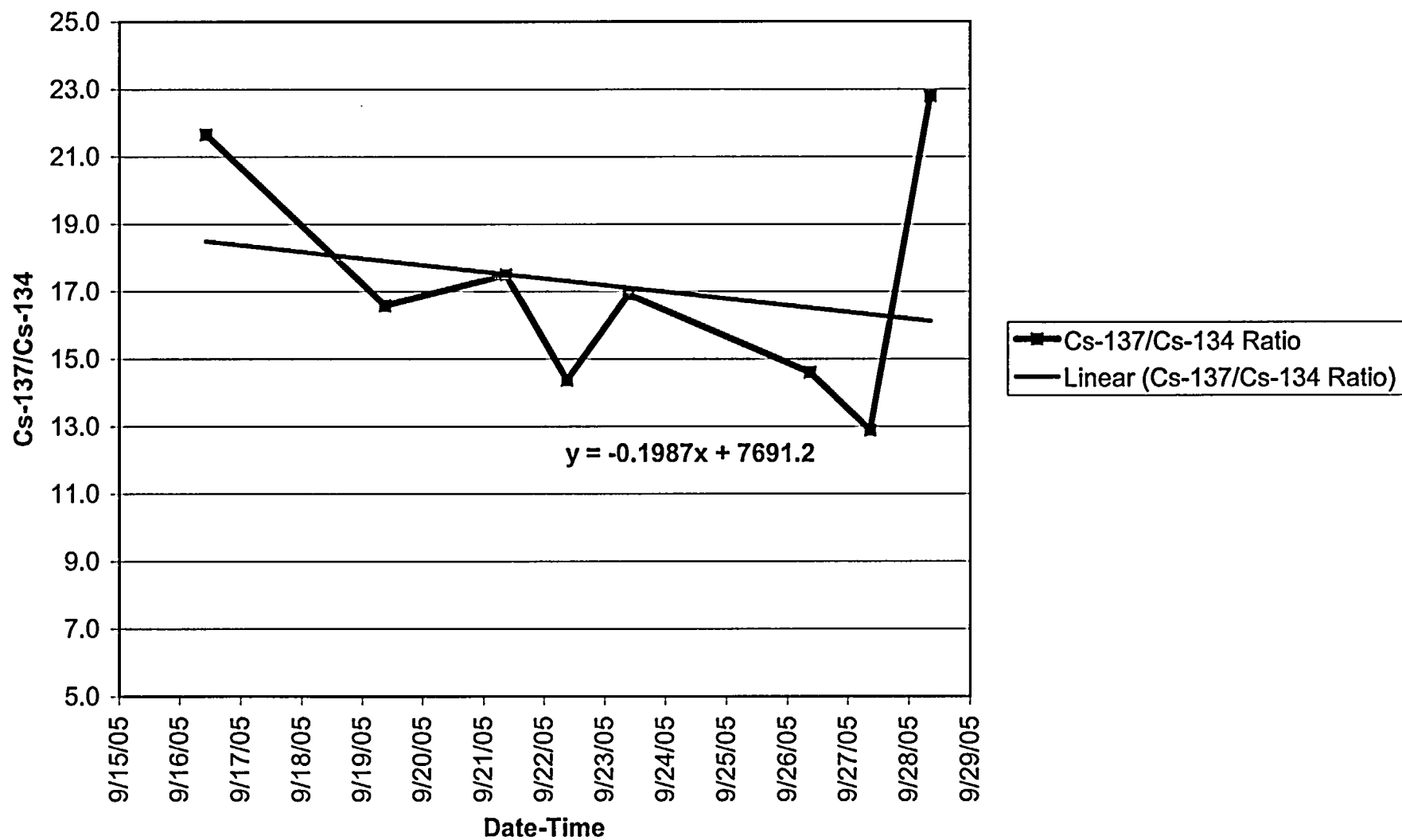
Collection
may have
included

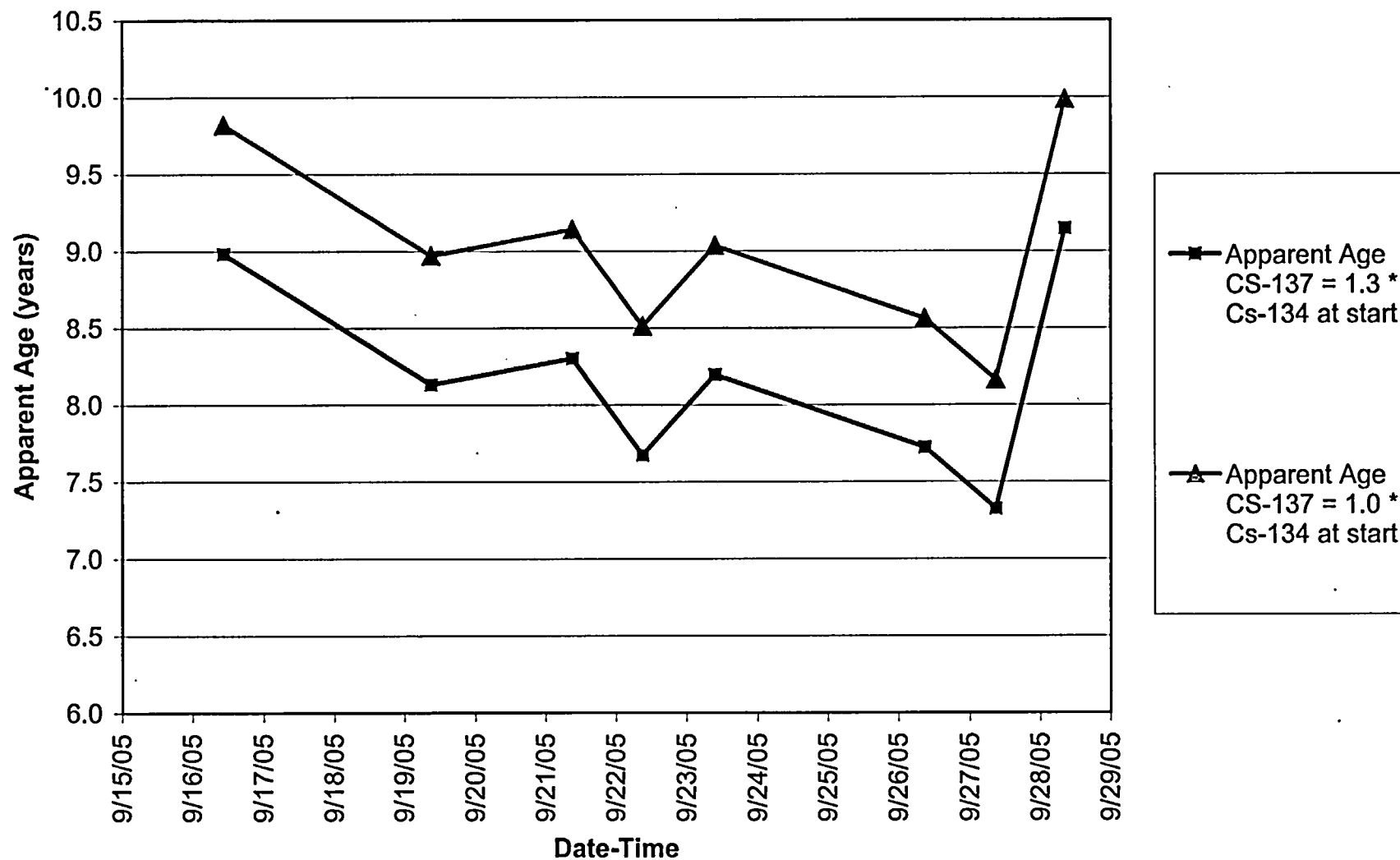
FSB Crack Water Boron



FSB Crack Water Tritium Activity

FSB Crack Water Cs-137/Cs-134 Ratio



FSB Crack Water Apparent Age

Sample Date	Location	Type	Co-60 uCi/gm	Cs-134 uCi/gm	Cs-137 uCi/gm	Cs-137/Cs-134 Ratio	Boron ppm	Tritium	Apparent Age CS-137 = 1.3 * Cs-134 at	Apparent Age CS-137 = 1.0 * Cs-134 at
9/13/05 10:30	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 12mLJ	Water - not a valid counting geometry - Potential trace level of Cs-134 identified after spectrum reanalyzed 20% Detector 10 min.	ND	1.08E-05	7.47E-05	7	1265	2.10E-02	5.3	6.2
9/16/05 10:30	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 173mLJ	Raw Water - Sediment in bottom. Geometry may not be valid. 40% Detector	3.82E-07	1.46E-06	3.17E-05	22	1786	2.20E-02	9.0	9.8
9/19/05 9:00	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 500 mLJ	Raw Water - Co-60 Confirming peak not found - 40% Detector - 1 hour count	9.42E-08	6.86E-07	1.14E-05	17	1769	2.20E-02	8.1	9.0
9/21/05 9:00	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 500 mLJ	Raw Water - 40% Detector 1 hour count - Co-60 only one peak identified	1.26E-07	5.44E-07	9.52E-06	17	1965	2.17E-02	8.3	9.1
9/22/05 9:00	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 419 mLJ	Raw Water - 40% Detector 1 hour count - Co-60 only one peak identified	8.13E-08	7.35E-07	1.06E-05	14	2080		7.7	8.5
9/23/05 9:30	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 407 mLJ	Raw Water - 40% Detector 1 hour count - Co-60 only one peak identified	1.73E-07	6.76E-07	1.14E-05	17	2375	1.96E-02	8.2	9.0
9/26/05 8:45	Behind plastic on Lower leaking crack 60' Elev North wall Grid C-1 ~1500 mLJ from 09:30 9-23-05 to 08:45 9-26-05	Raw Water - 40% Detector 1 hour count - Co-60 only one peak identified	5.67E-08	5.40E-07	7.89E-06	15	2045	2.05E-02	7.7	8.6
9/27/05 8:45	leaking crack 60' Elev North wall Grid C-1 ~205 mLJ - Notes: Collection system failed. Collection method may have caused collection of material plated on wall into water sample.	~205 mLJ - 40% Detector - 1 hour count	1.06E-06	2.85E-06	3.67E-05	13	2700	1.84E-02	7.3	8.2
9/28/05 8:30	Behind plastic on 60' & 64' Elev North wall Grid C-1 1000 mLJ - Notes: Collection system changed. Collection method may have caused collection of material plated on wall into water sample.	~1000 mLJ - 40% Detector - 1 hour count	3.58E-07	5.77E-07	1.32E-05	23	2720	2.00E-02	9.1	10.0

0.99685