APPENDIX G

USABILITY REPORTS

Attachment 1

BROOKHAVEN NATIONAL LABORATORY

Data Usability Summary Report

Project:	Sitewide OU IV AOC 5/6
Sampling Contractor:	Divrka & Bartilucci
Analytical Laboratory:	General Engineering Laboratories
Analytical Method:	901.1
Sample Delivery Group:	86838
COC No. / Sample IDs:	COC 16917 Samples 076-373
Date Sampled:	8/25/03
Parameter(s):	Gamma

SAMPLE ID	*DATA USABILITY QUALIFIERS*	*EXPLANATION FOR QUALIFIERS*
076-373	N2 Cesium 137	Possible false positive. MDA + 2-sigma error > Activity.

Summary:

Reviewed by: _____ Date: 12/3/03
Subject Matter Expert

Reviewed by: _____ Date: _____
Project Manager

Attachment 1

BROOKHAVEN NATIONAL LABORATORY

Data Usability Summary Report

Project:	Sitewide OU5
Sampling Contractor:	Dvirk & Bartilucci
Analytical Laboratory:	General Engineering Laboratory
Analytical Method:	H-3 EPA 906.0
Sample Delivery Group:	76833
COC No. / Sample IDs:	COC 16163 Sample BD-2 (050-01)
Date Sampled:	3/20/03
Parameter(s):	H-3

SAMPLE ID	*DATA USABILITY QUALIFIERS*	*EXPLANATION FOR QUALIFIERS*
BD-2 (050-01)	N2 H-3	Possible false positive. MDA + 2-sigma error > activity.

Summary:

Reviewed by: [signature] Date: 4/22/03
Subject Matter Expert

Reviewed by: W. Dorsch Date: 1/6/04
Project Manager

Usability of radiochemistry results for SDG 76833

	Sample ID	Species	Activity pCi/L	2-sigma Error pCi/L	MDA pCi/L	Activity -Error pCi/L	Usability
16163-3	BD-2	H-3	543	364	414	179	N2, Possible false positive

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BROOKHAVEN NATIONAL LABORATORY

Data Usability Summary Report

Project:	Sitewide
Sampling Contractor:	Dvirk & Bartilucci
Analytical Laboratory:	General Engineering Laboratory
Analytical Method:	EPA 905
Sample Delivery Group:	79002
COC No. / Sample IDs:	COC 16575 Samples: 065-11, 075-48, 065-167
Date Sampled:	4/23/03
Parameter(s):	Sr-90

SAMPLE ID	*DATA USABILITY QUALIFIERS*	*EXPLANATION FOR QUALIFIERS*
065-11	N2 Sr-90	Possible false positive. MDA + 2-sigma error > activity.
075-48	N2 Sr-90	Possible false positive. MDA + 2-sigma error > activity.
~~065-167~~	~~N2 Sr-90~~	~~Possible false positive. MDA + 2-sigma error > activity.~~ consistent with historical data JB

Summary:

Reviewed by: [signature] Date: 6/4/03
Subject Matter Expert

Reviewed by: W. Dorsch Date: 1/13/04
Project Manager

Usability of radiochemistry results for SDG 79002

	Sample ID	Species	Activity pCi/L	2-sigma Error pCi/L	MDA pCi/L	Activity -Error pCi/L	Usability
16575-2	065-11	Sr-90	0.366	0.217	0.353	0.149	N2, Possible false positive
16575-7	075-48	Sr-90	0.421	0.208	0.385	0.213	N2, Possible false positive
16575-9	065-167	Sr-90	0.466	0.239	0.452	0.227	N2, Possible false positive

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BROOKHAVEN NATIONAL LABORATORY

Data Usability Summary Report

Project:	Sitewide OU III Central
Sampling Contractor:	Dvirk & Bartilucci
Analytical Laboratory:	General Engineering Laboratory
Analytical Method:	EPA 906, 900
Sample Delivery Group:	81799
COC No. / Sample IDs:	COC 16909 Samples 109-03, 109-04
Date Sampled:	8/13/03
Parameter(s):	Tritium, Gross Alpha

SAMPLE ID	*DATA USABILITY QUALIFIERS*	*EXPLANATION FOR QUALIFIERS*
109-03	N2 Tritium	Possible false positive. MDA + 2-sigma error > Activity.
109-04	N2 Gross Beta	Possible false positive. MDA + 2-sigma error > Activity.

Summary:

Reviewed by: _____ Date: 9/22/03
Subject Matter Expert

Reviewed by: W. Dowd Date: 1/13/04
Project Manager

Attachment 1

BROOKHAVEN NATIONAL LABORATORY

Data Usability Summary Report

Project:	Sitewide OU5
Sampling Contractor:	Dvirk & Bartilucci
Analytical Laboratory:	General Engineering Laboratory
Analytical Method:	Gross Beta EPA 300.0 H-3 EPA 3006
Sample Delivery Group:	76369
COC No. / Sample IDs:	COC 16115 Samples 037-03, BD-1 (037-04), 061-05, 061-03
Date Sampled:	3/12/03
Parameter(s):	Gross Beta, H-3

SAMPLE ID	*DATA USABILITY QUALIFIERS*	*EXPLANATION FOR QUALIFIERS*
~~037-03~~	~~N2 Gross Beta~~	~~Possible false positive. MDA + 2-sigma error > activity.~~
BD-1	N2 H-3	Possible false positive. MDA + 2-sigma error > activity.
~~061-05~~	~~N2 Gross Beta~~	~~Possible false positive. MDA + 2-sigma error > activity.~~
~~061-03~~	~~N2 Gross Beta~~	~~Possible false positive. MDA + 2-sigma error > activity.~~
	Consistent with historic data	JB

Summary:

Reviewed by: Rick Pritchard Date: 4/16/03
Subject Matter Expert

Reviewed by: W. Dowd Date: 1/6/04
Project Manager

Usability of radiochemistry results for SDG 76369

	Sample ID	Species	Activity pCi/L	2-sigma Error pCi/L	MDA pCi/L	Activity -Error pCi/L	Usability
16115-3	037-03	Gross Beta	1.28	0.665	1.19	0.615	N2, Possible false positive
16115-5	BD-1	Tritium	620	253	387	367	N2, Possible false positive
16115-6	061-05	Gross Beta	2.04	0.795	1.38	1.245	N2, Possible false positive
16115-8	061-03	Gross Beta	2.04	0.782	1.33	1.258	N2, Possible false positive

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BROOKHAVEN NATIONAL LABORATORY

Data Usability Summary Report

Project:	Sitewide O3WSB
Sampling Contractor:	Dvirk & Bartilucci
Analytical Laboratory:	General Engineering Laboratory
Analytical Method:	Gamma EPA 901.1
Sample Delivery Group:	80880
COC No. / Sample IDs:	COC 16664 Sample; 119-03
Date Sampled:	5/23/03
Parameter(s):	Be-7

SAMPLE ID	*DATA USABILITY QUALIFIERS*	*EXPLANATION FOR QUALIFIERS*
119-03	N2 Be-7	Possible false positive. MDA + 2-sigma error > activity.

Summary:

Reviewed by: Rock Pretzak Date: 1/23/03
Subject Matter Expert

Reviewed by: W. Dorsch Date: 1/5/04
Project Manager

Usability of radiochemistry results for SDG 80880

	Sample ID	Species	Activity pCi/L	2-sigma Error pCi/L	MDA pCi/L	Activity -Error pCi/L	Usability
16664-6	119-03	Be-7	20	15.4	17	4.6	N2, Possible false positive

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BROOKHAVEN NATIONAL LABORATORY

Data Usability Summary Report

Project:	Sitewide O3WSB
Sampling Contractor:	Dvirk & Bartilucci
Analytical Laboratory:	General Engineering Laboratory
Analytical Method:	Gamma EPA 901.1
Sample Delivery Group:	80941
COC No. / Sample IDs:	COC 16552 Sample: 127-07
Date Sampled:	5/23/03
Parameter(s):	Cs-137

SAMPLE ID	*DATA USABILITY QUALIFIERS*	*EXPLANATION FOR QUALIFIERS*
127-07	N2 Cs-137	Possible false positive. MDA + 2-sigma error > activity.

Summary:

Reviewed by: Rich Putnam Date: 6/26/03
Subject Matter Expert

Reviewed by: W. Dorsch Date: 1/5/03
Project Manager

Usability of radiochemistry results for SDG 80941

	Sample ID	Species	Activity pCi/L	2-sigma Error pCi/L	MDA pCi/L	Activity -Error pCi/L	Usability
16552-3	127-07	Cs-137	1.76	1.38	1.72	0.38	N2, Possible false positive