

Hematite
Decommissioning
Project

Procedure: HDP-PR-FSS-712, Final Status Surveys of Structures, Systems, and Components (SSCs)

Westinghouse Non-Proprietary Class 3

Revision: 3

Page A-2 of 2

**APPENDIX A-1
FINAL STATUS SURVEY RESULTS**

Page 1 of 3

SU Description & Number: BSA 04-02 Septic Tank Survey Log Number: HDP-PF-101315-065 Date: 10/13/15

Technician(s): John Michel *John Michel* 10/23/15 Reviewed By: ELLEN C. JAKUB *Ellen C. Jakub* 10/23/15
(Print Name/Sign/Date) Matt Cushman *Matt Cushman* 10/23/15 (Print Name/Sign/Date) Time: 0900

Instrument # 1:				Instrument # 2: Tennelec/Ludlum 2929:							
Instrument & Probe	43-93/ 2360 R	MDA (dpm/100cm ²)	857	Instrument & Probe	43-10-1 /3030 B	Alpha MDA: (dpm/100cm ²)	25.3	Unit #: 2929 S/N 115578	"T"	Cal. Due:	10/30 /15
Instrument SN:	287589	Bkg 1:	301	Instrument SN:	247399	Alpha Eff.:	36.6%	Alpha Bkg:	0.6	Beta Bkg:	49
Cal Due Date:	8/31/16	Bkg 2:	283	Cal Due Date:	3/12/16	Beta Bkg:	32.4	Alpha Eff.:	24.9%	Beta Eff.:	23.83%
Probe Size:	100 cm ²	Bkg 3:	315	Probe Size:	100	Beta Eff.:	20.0%	Alpha MDA (dpm)	26.5	Beta MDA (dpm)	149
Weighted Eff.:	9.75%	Ave. Bkg:	299.7	Alpha Bkg	1.8	Beta MDA	147	Batch No:	N/A		

Sample No.	Instrument Number (i.e., 1 or 2)	Description	Removable Alpha		Removable Beta		Total Contam (α + β)		DCGL Fraction
			Net cpm	DPM/ 100cm ²	Net cpm	DPM/ 100cm ²	Gross cpm	DPM/ 100cm ²	
01	R	B04-02-01-S-F-S-00	0	1	0	-2	327	605	3%
02	R	B04-02-02-S-W-S-00	-2	-5	-4	-22	309	420	2%
03	R	B04-02-03-S-W-S-00	-1	-2	0	-2	584	3240	17%
04	R	B04-02-04-S-W-S-00	0	1	-1	-7	299	318	2%
05	R	B04-02-05-S-W-S-00	0	1	3	13	350	841	4%
06	R	B04-02-06-S-W-S-00	-2	-5	2	8	458	1950	10%
07	R	B04-02-07-S-F-S-00	0	2	0	0	288	-27	0
08	R	B04-02-08-S-W-S-00	0	2	1	4	326	270	1%
09	R	B04-02-09-S-W-S-00	-1	-2	4	17	278	-222	0
10	R	B04-02-10-S-W-S-00	0	2	-3	-13	299	-7	0
11	R	B04-02-11-S-W-S-00	-1	-2	-2	-8	299	-7	0
12	R	B04-02-12-S-W-S-00	-1	-2	-17	-71	296	-38	0
					A				
				N					

COMMENTS: Systematic direct measurements were performed with 43-93 "R" at locations 1 – 6 on 10/16/15, at location 7 on 10/21/15, and at locations 8 – 12 on 10/20/15. 100% scan performed with 43-93 "R" from 10/13/15 – 10/22/15. All locations indicate activity levels less than the DCGL. Locations indicating activity greater than 50% of the DCGL were included as biased samples on the next page.

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Page A-2 of 2

**APPENDIX A-1
FINAL STATUS SURVEY RESULTS**

Page 2 of 3

SU Description & Number: BSA 04-02 Septic Tank				Survey Log Number: HDP-PF-101315-065				Date: 10/13/15			
Technician(s): John Michel <i>JM</i> 10/23/15 (Print Name/Sign/Date) Matt Cushman <i>MC</i> 10/23/15				Reviewed By: ELLEN C. JAKUB <i>EJ</i> 10/23/15 (Print Name/Sign/Date)				Time: 0900			
Instrument # 1:				Instrument # 2:				Tennelec/Ludlum 2929:			
Instrument & Probe	43-93/2360 R	MDA (dpm/100cm ²)	857	Instrument & Probe	43-10-1/3030 B	Alpha MDA: (dpm/100cm ²)	25.3	Unit #: 2929 S/N 115578	"T"	Cal. Due:	10/30/15
Instrument SN:	287589	Bkg 1:	301	Instrument SN:	247399	Alpha Eff.:	36.6%	Alpha Bkg:	0.6	Beta Bkg:	49
Cal Due Date:	8/31/16	Bkg 2:	283	Cal Due Date:	3/12/16	Beta Bkg:	32.4	Alpha Eff.:	24.9%	Beta Eff.:	23.83%
Probe Size:	100 cm ²	Bkg 3:	315	Probe Size:	100	Beta Eff.:	20.0%	Alpha MDA (dpm)	26.5	Beta MDA (dpm)	149
Weighted Eff.:	9.753%	Ave. Bkg:	299.7	Alpha Bkg	1.8	Beta MDA	147	Batch No:	N/A		

Sample No.	Instrument Number (i.e., 1 or 2)	Description	Removable Alpha		Removable Beta		Total Contam (α + β)		DCGL Fraction
			Net cpm	DPM/ 100cm ²	Net cpm	DPM/ 100cm ²	Gross cpm	DPM/ 100cm ²	
13B	R	B04-01-13-S-W-B-00	1	6	-21	-88	1366	10390	55%
14B	R	B04-01-14-S-W-B-00	7	20	1	3	1272	9423	50%
15B	R	B04-01-15-S-W-B-00	3	9	9	43	1400	10740	57%
16B	R	B04-01-16-S-W-B-00	2	6	6	28	1515	11910	63%
17B	R	B04-01-17-S-W-B-00	5	22	-15	-63	1512	12430	66%
18B	R	B04-01-18-S-W-B-00	3	14	-10	-42	1951	17020	90%

COMMENTS: Biased direct measurements were performed with 43-93 "R" at location 13B – 16B on 10/13/15, 17B on 10/20/15, and 18B on 10/21/15. Above measurements reflect final as left conditions. Any biased measurement originally found to exhibit activity above the DCGL was subject to remediation / removal.

**APPENDIX A-1
FINAL STATUS SURVEY RESULTS**

SU Description & Number: BSA 04-02 Septic Tank

Survey Log Number: HDP-PF-101315-065

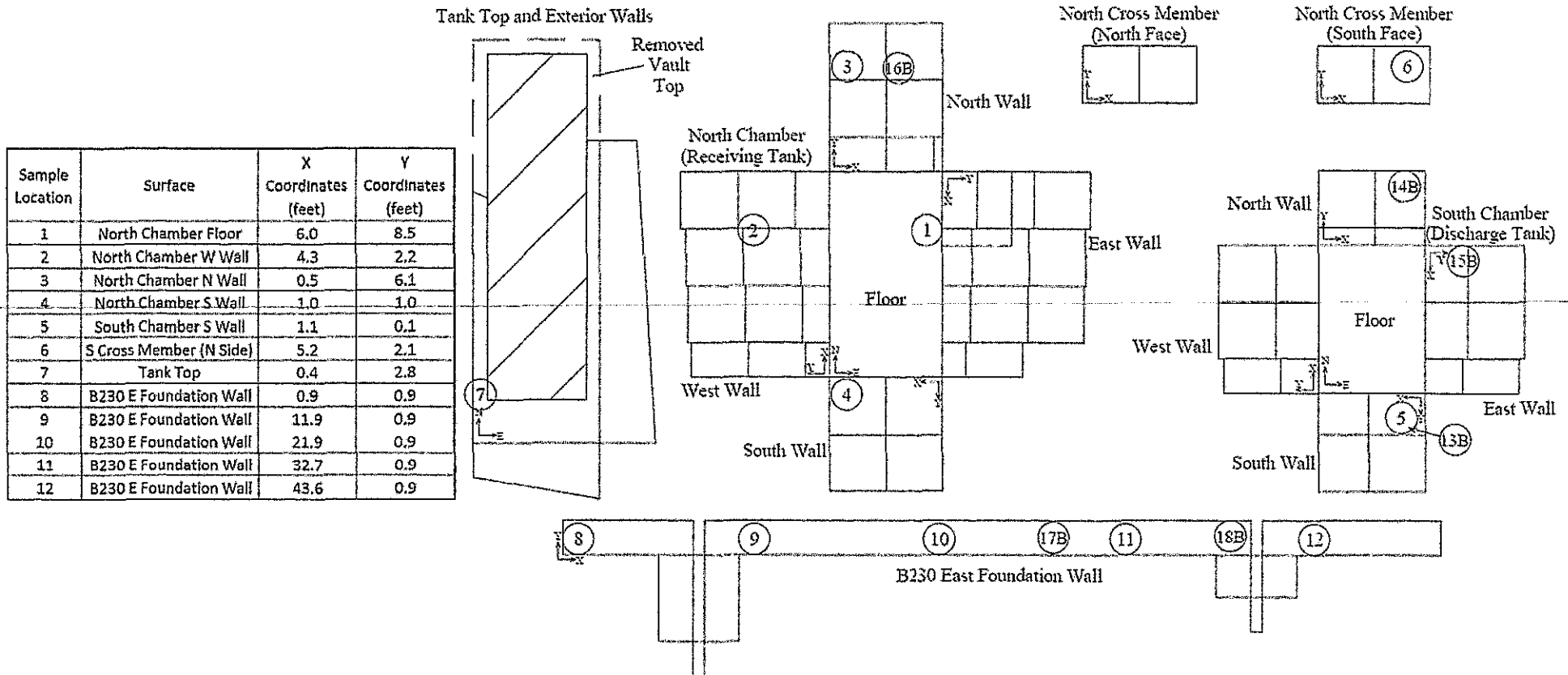
Date: 10/13/15

Technician(s): John Michel *JM* 10/23/15
(Print Name/Sign/Date) Matt Cushman *MC* 10/23/15

Reviewed By: ELLEN C. JAKUS *EJ* 10/23/15
(Print Name/Sign/Date)

Time: 0900

Survey Area Map / Diagram (Indicate Area Scanned):



COMMENTS: Systematic direct measurements were performed with 43-93 "R" at locations 1 – 6 on 10/16/15. Biased directs performed with 43-93 "R" on locations 13B – 16B on 10/13/15, on location 17B on 10/20/15, and on 18B on 10/21/15. 100% scan performed with 43-93 "R" on 10/13/15 – 10/22/15. Locations 1 – 6 and 13B – 16B and nearby areas were surveyed by HDP personnel due to confined space access issues.