3006-9901010001

SM/PP Hill Project

CLOSE OUT REPORT

Removal By Auction of Buildings:

4, 39, 101, 118, 120, and GP-2

Final

Mound Site
CERCLA
Reading Room Copy

January 1999

Babcock & Wilcox of Ohio

Department Of Energy

Close Out Report For Removal By Auction

Of

Buildings: 4, 39, 101, 118, 120, and GP-2

DOE Mound Plant

Miamisburg, Ohio 45343-3020

Prepared for:

United States Department of Energy
Miamisburg Environmental Management Project
P.O. Box 3020
Miamisburg, Ohio 45343-3020

Prepared by:

Babcock & Wilcox of Ohio

January 1999

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EXECUTIVE SUMMARY

This is the final report documenting the removal by auction of Mound Plant modular Buildings 4, 101, 118, 120, GP-2, and Butler Building 39. These buildings resided on the SM/PP Hill. The SM/PP Hill Project of Babcock and Wilcox of Ohio (BWO) managed the preparatory removal activities and accomplished the demolition of concrete pads and other site close-out functions per the following, applicable Work Plans:

- *Work Package For Preparation of Modular Buildings For Auction, SM/PP Hill Project,* November 12, 1997 and,
- *Work Plan For Modular 101 & Building 39, SM/PP Hill Project,* Revision 2, October 13, 1998.

This Close Out report serves as a record of the removal activities and reports the final costs, schedule, waste disposition information, preparatory and close out actions, and any unusual findings. Photographs, sampling data, and references to other related documents are also included. Individual building construction information can be found in Reference 4. All auction and removal events occurred in 1998. Additional information is provided as follows.

Building	Area (Sq. Ft.)	Year On Site	Date Off Site	Utilities
4	830	1988	4/13/1998	W, E, S, HVAC
39	3515	1969	9/24/1998	W, E, S, HVAC
101	1815	1986	9/10/1998	W, E, S, HVAC
118	350	1980	3/05/1998	E, HVAC
120	350	1980	3/05/1998	E, HVAC
GP-2	150	1984	6/13/1998	E, AC

W = Potable Water

E = Electricity

S = Sanitary

AC = Portable/Non-central Air Conditioning

HVAC = Heating/Ventilation/Air Conditioning

Building 4 was used by security personnel as an office building. Building 39 concluded its presence at Mound Plant serving as a maintenance facility in support of SM/PP Hill decommissioning activities. Final sealing of radioactive trash boxes and gamma spectroscopy of these boxes were accomplished here. A turntable employed for these functions was not removed with the building and was demolished with the foundation of Building 39.

Building 101 was used as an office facility for different plant organizations and for storage of maintenance supplies. Radioactively contaminated equipment found in this building was removed. Building GP-2 served its designated access control functions for its entire tenure. Buildings 118 and 120 contained office space used by different Mound Plant organizations. They also served as storage areas for the Radiological Assistance Team and as parcel inspection checkpoints for items entering or departing the plant site.

In general, the SM/PP Hill Project sequenced the removal activities into two phases. Phase I included all work necessary to allow a buyer to remove the building. Work included utility services disconnect, sidewalk and ramp removal, and security fence modifications. Phase II included all demolition work required to restore the building sites to their original condition. Work included removal of utilities, foundation removal, backfill of areas, seeding, and paving. Phase II for Building 39 included radiological surveys of the turntable and subsequent removal and demolition.

Buildings 4, 39, 101, 118, 120, and GP-2 have been removed from Mound Plant. Five of the six concrete foundations and slabs have been demolished and removed to the spoils area. The slab for GP-2 remains in place. Approximately 270 cubic yards of concrete and metal debris (non-radioactively contaminated) were removed from the building sites as noted in Table 3. All affected soil remained at the building sites and was used for final grading.

Soil verification sampling was conducted. Radiological characterization of the concrete and the turntable in Building 39 was required prior to removing it from the building locations. Radiological survey data is found in Appendix B. The turntable motor was discovered to have low-level, fixed radioactive contamination and was disposed of in a low-level waste package.

It is recommended to the Department of Energy that the scope of work relating to these structures be considered complete.

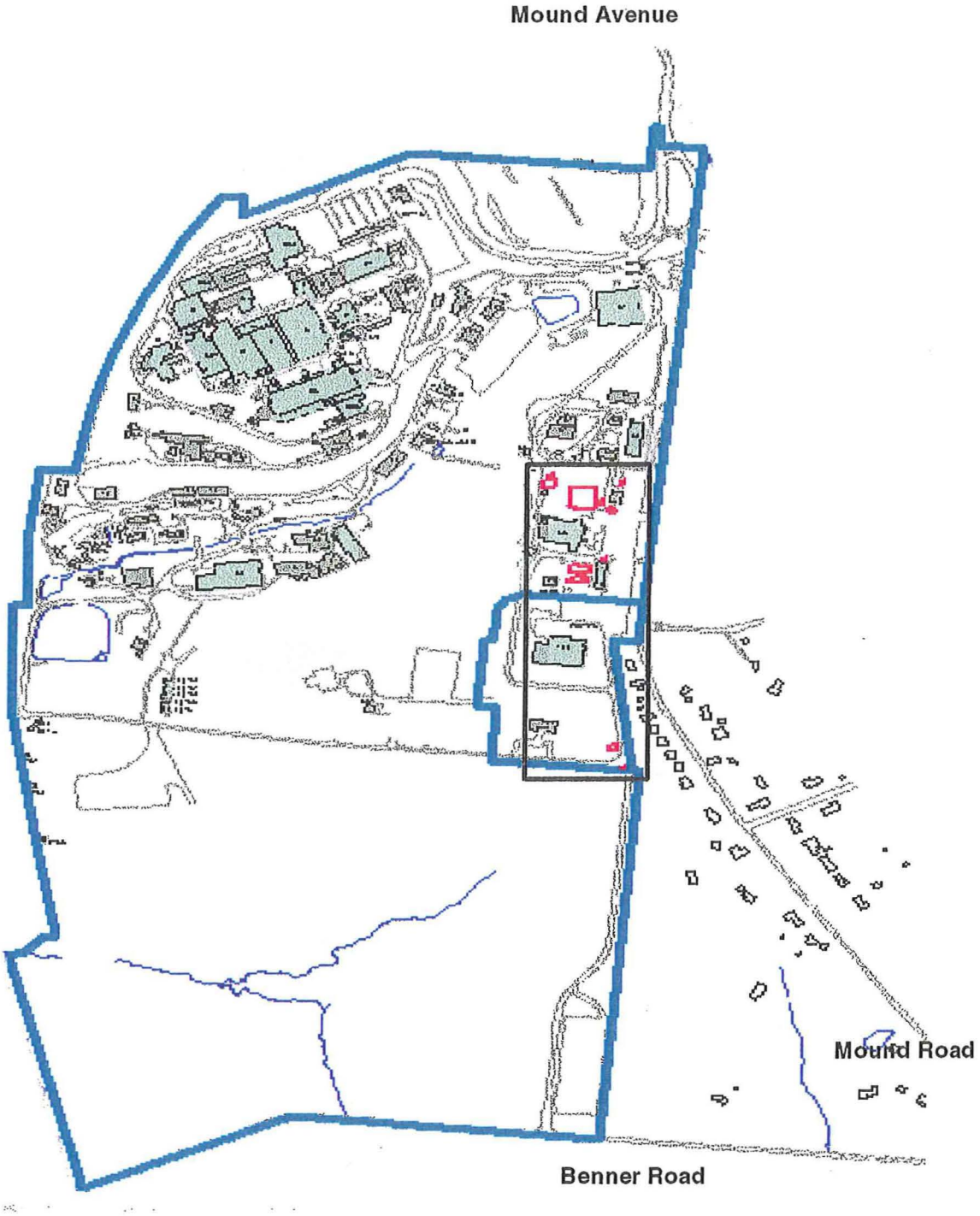


Figure 1. Mound Plant Site Location
(Buildings 4, 39, 101, 118, 120, and GP-2 are located in red box.)

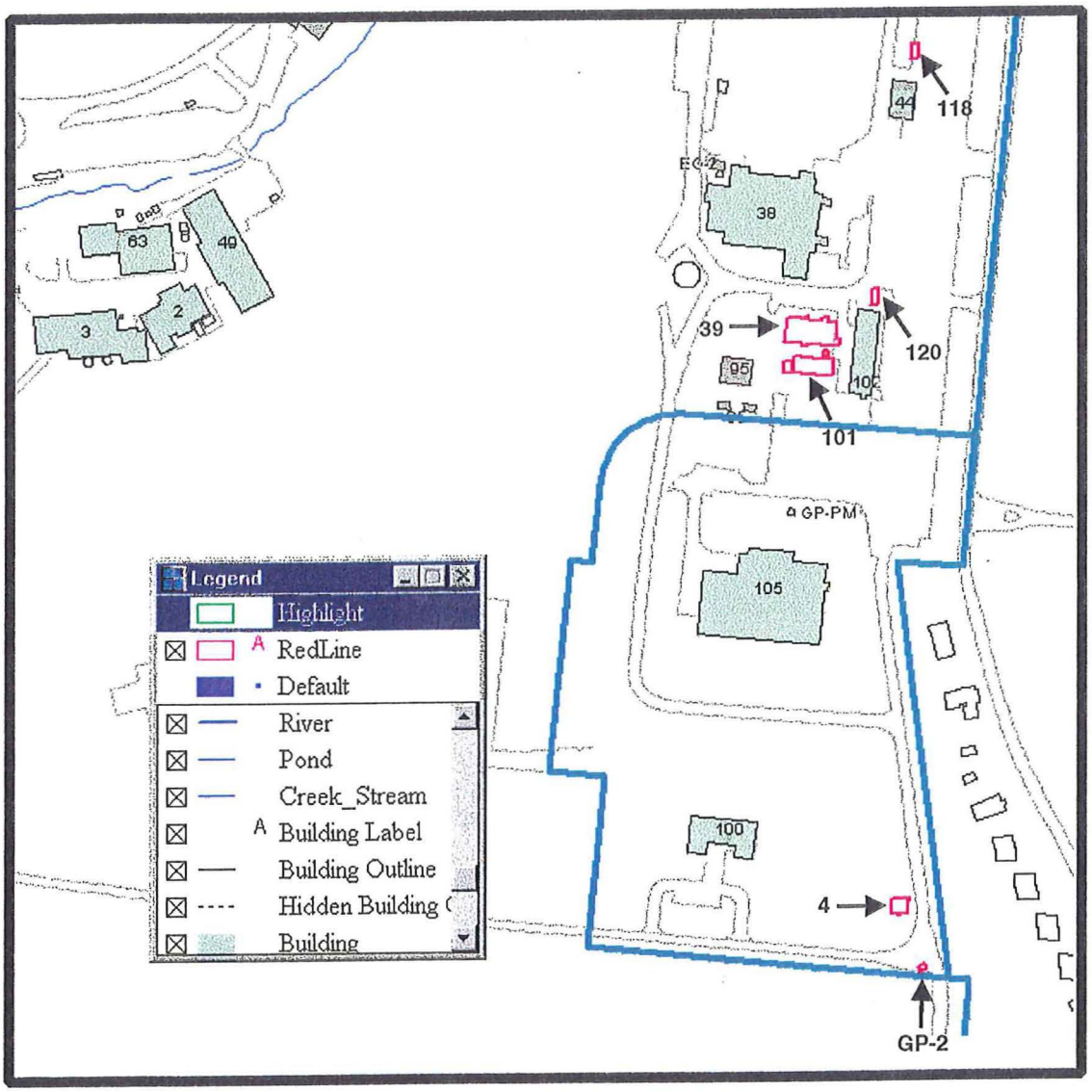


Figure 2. Auction Site Locations

1.0 SUMMARY OF EVENTS

1.1 Objectives of Removal Activities

Buildings 4, 39, 101, 118, 120, and GP-2 were removed in support of the Mound Plant Exit Project. Removal Activities were accomplished as specified in the documents *Work Package For Preparation of Modular Buildings For Auction, SM/PP Hill Project,* November 12, 1997 and the *Work Plan For Modular 101 & Building 39, SM/PP Hill Project,* Revision 2, October 13, 1998. Note Figures 1 and 2 for Mound Plant/building locations.

1.2 Personnel Organization For The Removals

See Table 1, Personnel Organization For The Removals.

Table 1. Personnel Organization For The Removals

Agencies or Parties Involved	Contact	Description of Participation
US EPA HSRM-6J 77 W. Jackson Chicago, IL 60604	Tim Fischer 312-886-5787	Federal agency responsible for oversight.
Ohio EPA 410 E. Fifth Street Dayton, OH 45402-2911	Brian Nickel 937-285-6468	State agency responsible for site oversight.
DOE/MEMP P.O. Box 66 1 Mound Road Miamisburg, OH 45343-3030	Debra White 937-865-5197	DOE Project Manager responsible for project oversight and success.
B&W of Ohio SM/PP Hill Project P.O. Box 3030 1 Mound Road Miamisburg, OH 45343-3030	Tim Heath 937-856-3891	Provided the DOE Project Manager with technical assistance, administrative support, sampling, photo and site documentation, site safety, and report preparation.
B&W of Ohio General Superintendent and Equipment Manager P.O. Box 3030 1 Mound Road Miamisburg, OH 45343-3030	Rich Higgins 937-865-4400	Provided the personnel and equipment necessary for the demolition.

1.3 Chronological Summary of Removal Activities

See Table 2, Chronological Summary of Removal Activities. The SM/PP Hill Project sequenced the removal activities into two phases. Phase I included all work necessary to allow a buyer to remove the building. Work included utility services disconnect, sidewalk and ramp removal, and security fence modifications. Phase II included all demolition work required to restore the building sites to their original condition. Work included removal of utilities, foundation removal, backfill of areas, and seeding and paving.

Table 2. Chronological Summary of Removal Activities

Building	Begin Phase I	End Phase I	Auction	Off Site	Begin Phase II	End Phase II
4	12/1/97	3/3/98	1/13/98	4/13/98	4/13/98	5/21/98
39	6/1/98	9/1/98	5/13/98	9/24/98	9/28/98	11/12/98
101	6/1/98	9/1/98	5/13/98	9/15/98	8/10/98	9/3/98
118	12/2/97	3/3/98	1/13/98	3/5/98	3/5/98	4/9/98
120	12/2/97	3/2/98	1/13/98	3/5/98	3/5/98	4/20/98
GP-2	12/2/97	3/2/98	5/13/98	6/13/98	N/A	N/A

1.4 Listing of Waste Materials Generated and Resources Committed

Table 3 is a summary of waste materials removed from the auctioned building locations. Table 4 lists the total cost summary for the building removals.

Table 3. Materials and Disposition

Material	Quantity	Method	Location
Construction Debris (concrete/masonry)	250 cubic yards	To be crushed later and recycled.	Mound site-to be used as fill material.
Construction Debris (metal)	20 cubic yards	Recycled.	Franklin Metal & Iron

Note: All soil remained at the removal sites and was used for final grading.

Table 4. Removal Project Total Cost Summary

Project Element Cost	**Amount**
Building 4 & GP-2	$33,171.
Building 39	11,711.
Building 101	15,154.
Building 118	5,190.
Building 120	1,344.
Total Cost and Ceiling	**Amount**
Total Project Cost	$66,570.
Project Ceiling	$94,585.

2.0 EFFECTIVENESS OF THE REMOVALS

Buildings 4, 39, 101, 118, 120, and GP-2 were successfully auctioned and removed from Mound Plant. All required preparatory and close out functions including field work and required laboratory analysis, as well as physical conduct of the auctions, was successfully accomplished by Babcock & Wilcox of Ohio personnel.

3.0 RECOMMENDATION

The SM/PP Hill Project Buildings 4, 39, 101, 118, 120, and GP-2 were removed in accordance with documentation provided to the Mound 2000 Core Team and, as outlined in this Close Out Report, to include removal of debris and restoration of building site locations. It is recommended to the Department of Energy that the scope of work relating to these magazines be considered complete.

4.0 REFERENCE LIST OF SUPPLEMENTARY DOCUMENTS

1) *Work Package For Preparation of Modular Buildings For Auction, SM/PP Hill Project,* November 12, 1997.

2) *Work Plan For Modular 101 & Building 39, SM/PP Hill Project,* Revision 2, October 13, 1998.

3) *Work Plan For Environmental Restoration of the DOE Mound Site, The Mound 2000 Approach,* August 1998.

4) *Environmental Appraisal Report of The Mound Plant,* March 29, 1996.

5) *Job Specific Hazards Analysis, Buildings 4, 118, 120, GP-2,* November 12, 1998.

6) Job Specific Hazards Analysis, Buildings 39, 101, June 30, 1998.

7) Sampling/Characterization Information. (See Appendix B.)

Mark Becker, BWO Public Relations, may be contacted at (937)865-4450 to request access to the supplemental documents.

Appendix A

02/28/96 Bldg. 4 *960505

09/02/98 Restoration of former site of Bldg. 4 *981749

02/28/96 Bldg. 39 *960528

11/17/98 Bldg. 39 site restoration *982183

02/28/96 Bldg. 101 *960531

11/17/98 Bldg. 101 and Bldg. 39 site restoration *982184

02/28/96 Bldg. 118 *960538

09/02/98 Restoration of former site of Bldg. 118 *981746

02/28/96 Bldg. 120 *960527

09/02/98 Restoration of former site of Bldg. 120 *981745

02/28/96 GP2 *960506

09/02/98 Restoration of former site of GP2 *981751

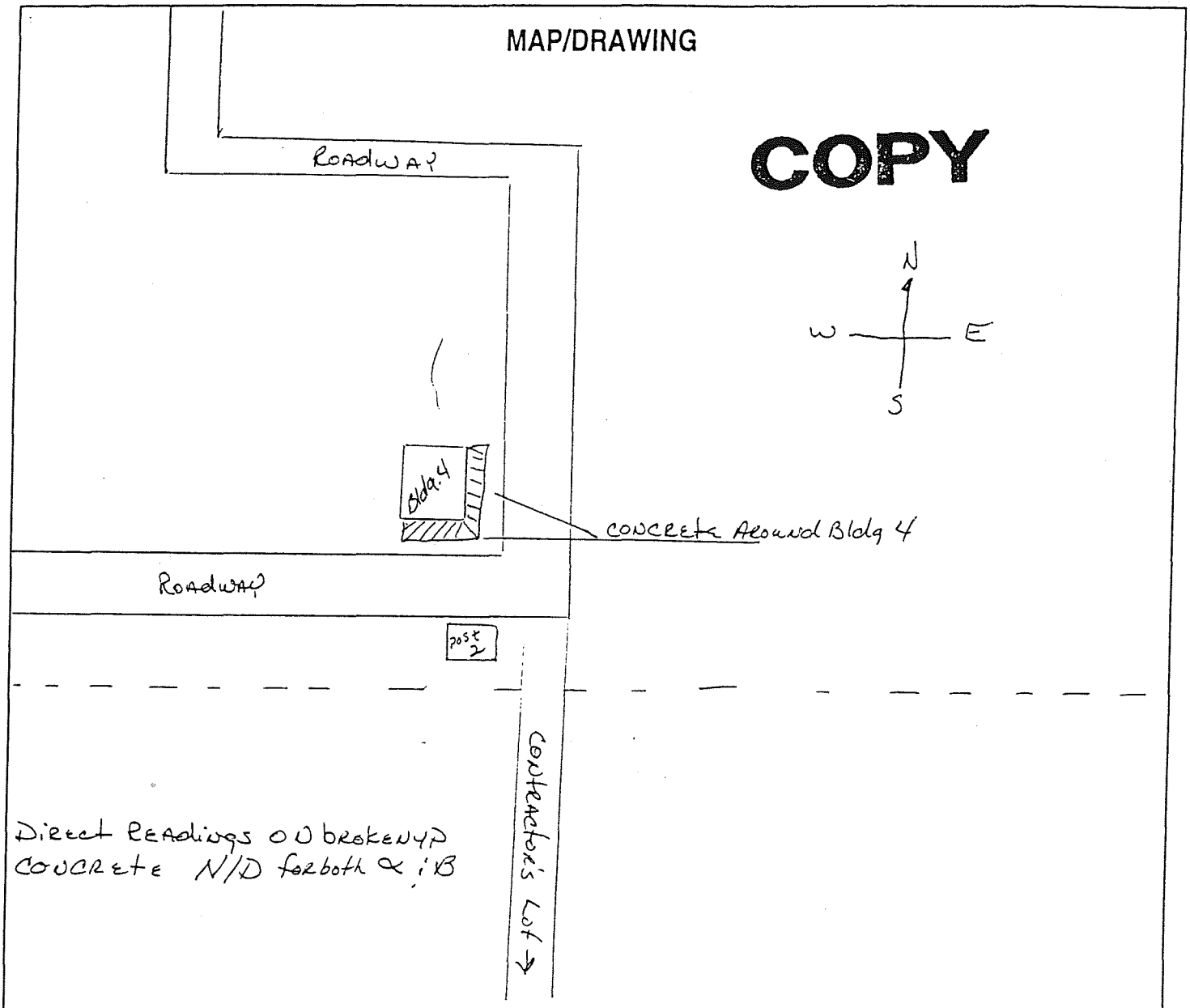
Appendix B

RADIOLOGICAL SURVEY DATA SHEET

LOCATION: (BLDG./AREA/ROOM) Bldg # 4 Modular	SURVEY NO. 97-SMP-071
PURPOSE: Verify no contamination on concrete surrounding Bldg #4	RWP NO. N/A
	DATE: 12/15/97
	TIME: 1430 hrs

MAP/DRAWING

COPY



Direct Readings on broken up concrete N/D for both α & β

LEGEND: # = mrem/hr (γ) whole body
E = mrem/hr (β+η+γ) extremity on contact
N/D = Non Detectable

△# = mrem/hr neutron
[#] = air sample number
(#) = swipe number
(#/α) or /β = direct cont. measurement in dpm/100cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
NE Electra	5301 / 5321	06/03/98
	NFE	

Completed by: (Signature/HP#) John M Blankenship [redacted]	Date: 12/15/97
Counted by: (Signature/HP#) John M Blankenship [redacted]	Date: 12/15/97
Reviewed/Approved by: (Signature/HP#) Sullivan [redacted]	Date: 12/16/97

ML-9620 (8-97)

RADIOLOGICAL SURVEY DATA SHEET (cont.)

Charge Authorization No. _____

☑ All swipes < MD10019, Table 2.2 values except as noted.

Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments
1	<1k	<20	N/A	
2	<1k	<20		
3	<1k	<20		
4	<1k	<20		
5	<1k	<20		
6	<1k	<20		
7	<1k	<20		
8	<1k	<20		
9	<1k	<20		
10	<1k	<20		
11	<1k	<20		
12	<1k	<20		
13	<1k	<20		
14	<1k	<20		
15	<1k	<20		
16	<1k	<20	NA	

☑ All swipes < MD10019, Table 2.2 values except as noted.

Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments
17	<1k	<20	N/A	
18	<1k	<20		
19	<1k	<20		
20	<1k	<20		
21	<1k	<20		
22	<1k	<20		
23	<1k	<20		
24	<1k	<20		
25	<1k	<20		
26	<1k	<20		
27	<1k	<20		
28	<1k	<20		
29	<1k	<20		
30	<1k	<20		
31	<1k	<20		
32	<1k	<20	N/A	

COPY

AIR SAMPLE DATA

Sample ID or Serial #	Date & Time On	Date & Time Off	Flow Rate	Activity (DAC)

N/A

AIR SAMPLE DATA

Sample ID or Serial #	Date & Time On	Date & Time Off	Flow Rate	Activity (DAC)

N/A

COMMENTS: All wipes taken on subsurface concrete after breaking up and turning over. Surveyed concrete loaded onto a Rolloff for concrete to be taken offsite after final survey by waste mgmt people.

NOTES:

1. See MD-80036 10002 for calculations of WB, extremity and skin dose rates.
2. To request RO Count Room analysis for β/γ, alpha or tritium, leave column blank. Mark column N/A if not needed. If count room printout of results are attached, write "see attached" in column.
3. Annotate special sample type (e.g., soil, water), special identifiers or otherwise in Comments. If not needed, mark N/A.

REQUEST TO STAGE CONCRETE DEBRIS AT CONSTRUCTION SPOILS AREA

Work Location: Building 39

Approximate Volume: 100 cu yds.

Requestor Project Group: SM/PP H711

Project Point of Contact: Rich Bauer x3738 Bill Naumann x3515

Name/Phone Ext.:

MSR #: NA.

Charge #: G00484

Process Knowledge *(attach documentation, if more space needed)*:
Concrete slab & foundation of Building 39 SM/PP Maintenance shop

PRS #: NA

PRS Binning Status: ☐ NFA ☐ RA ☐ FA ☐ NFA Pending Stakeholder Review

Cleanup Criteria of Soils: not contaminated.

Oil/Asbestos/Hazardous Waste Present: ☒ No ☐ Yes If yes, explain

RWP #: NA

Identify how area is posted: (e.g. URMA, SCA, CA, HCA, RMA, RMMA, FCA, etc.) not posted.

Radionuclides of Concern: NA.

Radiological Surface Contamination Survey Results: ☒ <MD-10019 Table 2-2 criteria ☐ >MD-10019 Table 2-2 criteria

In-process monitoring results of excavation equipment: ☐ <MD-10019 Table 2-2 criteria ☐ >MD-10019 Table 2-2 criteria

Activation Concerns: ☒ No ☐ Yes If yes, explain

Soil Sample Results *(list highest values for all radionuclides of concern and associated MDA value in pCi/g): Copies of soil sample results may be attached.*

Air Sampling/Core Sampling Data:

Concrete Debris is: ☐ [1]Contaminated ☒ [2]Not Contaminated

[1]Contaminated may be for radiological, chemical, hazardous reasons. It is the responsibility of each Project Manager to perform appropriate testing and make this determination.

[2]Indicating that the debris is not contaminated in no way allows for its unrestricted radiological release. It demonstrates only the way in which it will be managed at the Construction Spoils Area. MD-80043, Operation 500 requirements apply for unrestricted release of bulk material.

PROJECT MANAGER NAME/SIGNATURE:	DATE
[signature] FOR TIM HEATH	11/9/98

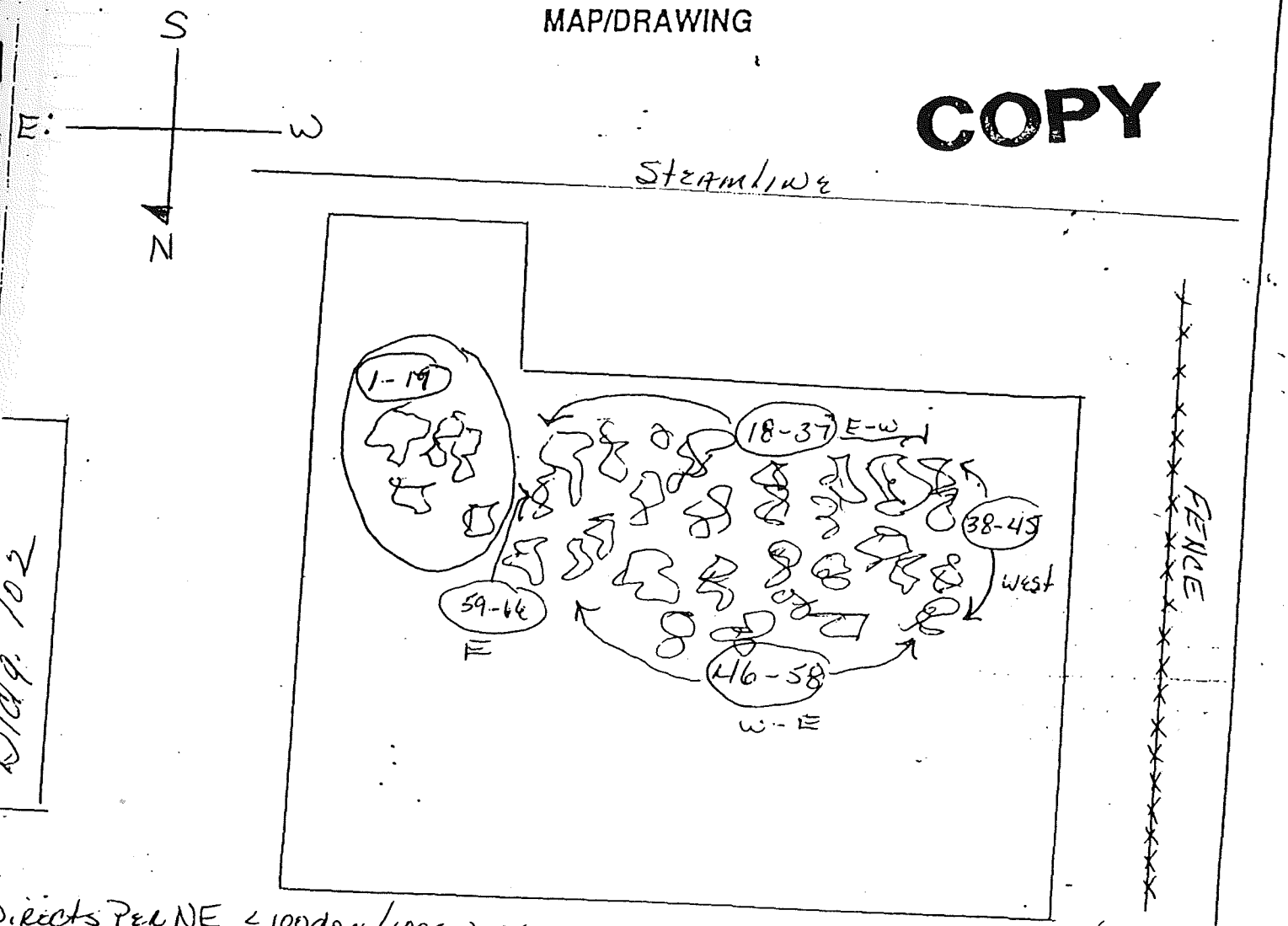
ML-9817

RADIOLOGICAL SURVEY DATA SHEET

30-12

LOCATION: (BLDG/AREA/ROOM) Bldg 39 concrete Floor	SURVEY NO. 98-SM-162
PURPOSE: SURVEY to RELEASE to SPOILS AREA.	RWP NO. N/17
	DATE: 11-4-98
	TIME: 1100

MAP/DRAWING



Directs Per NE < 100dpm/100cm² α
< 5kdpm/100cm² β

Fidler ≤ BKG - BKG 3kcpm outch

LEGEND: # = mrem/hr (γ) whole body
E = mrem/hr (β+η+γ) extremity on contact
△# = mrem/hr neutron
[#] = air sample number
(#) = swipe number
(#/α) or /β = direct cont. measurement in dpm/100cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
NE	5318 / 5306	12-03-98
Fidler	N/A	N/A
	NFE	

Completed by: (Signature) John M Blankenship	HP# [redacted]	Date: 11-4-98
Completed by: (Print Name) JOHN M BLANKENSHIP		
Counted by: (Signature) Carol Y. Robinson	HP# [redacted]	Date: 11-5-98 3BGG
Counted by: (Print Name) CAROL Y. ROBINSON		
Reviewed/Approved by: (Signature) Roger J. Blum	HP# [redacted]	Date: 981109
Reviewed/Approved by: (Print Name) ROGER BLUM		

IL-9620 (2-98)

RADIOLOGICAL SURVEY DATA SHEET (cont.)

Removable Contamination				
Swipes (dβm/100cm²)				[redacted]
Sample #	β/γ	Alpha	Tritium	Comments
1				SE Pile
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				SE Pile
18				South E to W
19				~~SE Pile~~ JMB 1-98
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				South E to W

Removable Contamination				
Swipes (dpm/100cm²)				[redacted]
Sample #	β/γ	Alpha	Tritium	Comments
36				South E to W
37				South E to W
38				West
39				
40				
41				
42				
43				
44				
45				West
46				North W to E
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				North W to E
59				East
60				
61				
62				
63				
64				
65				
66				East
		None		

COPY

COMMENTS: Fidler used as Indicator only. All swipes taken on concrete that was touching ground (Bottom side)

NOTES:
1. See MD-80036 10002 for calculations of WB, extremity and skin dose rates.
2. To request RO Count Room analysis for β/γ, alpha or tritium, leave column blank. Mark column N/A if not needed. If count room printout of results are attached, write "see attached" in column.
3. Annotate special sample type (e.g., soil, water), special identifiers or otherwise in Comments. If not needed, mark N/A.

Health Physics Counting Lab – Wipe Analysis

Date: 11/5/98
Counting Unit Id: 3
Data file name: C:\LBXL\UNIT3\Sme3B000.csv
Batch Ended: 11/5/98 9:44
Crosstalk Correction: Applied
Cal. Due Date: 12/3/98

Alpha activity action level (DPM): 20.00
Beta activity action level (DPM): 200.00

System Serial #: 59123
Batch ID: T 98-SM-162 BLANKENSHIP BLDG.39 FLOOR GR.B CYR

		Alpha Activity			Beta Activity			Count	Completion
Carrier	Sample	DPM	σ	flags	DPM	σ	flags	time (min)	Date - Time
94	1	0.000	2.02	<MDA	2.69	3.46	<MDA	1.50	11/5/98 7:54
13	2	0.636	1.98	<MDA	0.00	2.24	<MDA	1.50	11/5/98 7:55
107	3	0.000	1.98	<MDA	0.00	2.24	<MDA	1.50	11/5/98 7:57
15	4	4.246	3.25	<AL	0.00	2.71	<MDA	1.50	11/5/98 7:59
57	5	0.000	2.04	<MDA	4.22	3.78	<MDA	1.50	11/5/98 8:00
4	6	0.000	2.02	<MDA	2.69	3.46	<MDA	1.50	11/5/98 8:02
29	7	0.000	2.04	<MDA	4.22	3.78	<MDA	1.50	11/5/98 8:04
105	8	0.571	2.05	<MDA	5.51	4.08	<AL	1.50	11/5/98 8:06
98	9	0.000	2.04	<MDA	4.22	3.78	<MDA	1.50	11/5/98 8:07
97	10	0.000	2.02	<MDA	2.69	3.46	<MDA	1.50	11/5/98 8:09
75	11	4.207	3.27	<AL	3.52	3.78	<MDA	1.50	11/5/98 8:11
23	12	0.000	2.04	<MDA	4.22	3.78	<MDA	1.50	11/5/98 8:12
42	13	0.558	2.07	<MDA	7.03	4.35	<AL	1.50	11/5/98 8:14
37	14	0.545	2.08	<MDA	8.56	4.61	<AL	1.50	11/5/98 8:16
8	15	0.597	2.02	<MDA	2.46	3.46	<MDA	1.50	11/5/98 8:17
64	16	0.000	2.05	<MDA	5.74	4.08	<AL	1.50	11/5/98 8:19
11	17	0.000	2.02	<MDA	2.69	3.46	<MDA	1.50	11/5/98 8:21
113	18	0.000	2.05	<MDA	5.74	4.08	<AL	1.50	11/5/98 8:23
140	19	2.383	2.74	<MDA	5.28	4.08	<AL	1.50	11/5/98 8:24
89	20	0.000	2.05	<MDA	5.74	4.08	<AL	1.50	11/5/98 8:26
38	21	4.207	3.27	<AL	3.52	3.78	<MDA	1.50	11/5/98 8:28
112	22	0.000	1.98	<MDA	0.00	2.24	<MDA	1.50	11/5/98 8:29
18	23	0.000	2.05	<MDA	5.74	4.08	<AL	1.50	11/5/98 8:31
29	24	2.448	2.68	<MDA	0.00	2.24	<MDA	1.50	11/5/98 8:33
31	25	0.000	2.09	<MDA	10.31	4.86	<AL	1.50	11/5/98 8:34
34	26	4.194	3.28	<AL	5.04	4.08	<AL	1.50	11/5/98 8:36
33	27	0.000	2.02	<MDA	2.69	3.46	<MDA	1.50	11/5/98 8:38
112	28	0.000	2.07	<MDA	7.27	4.35	<AL	1.50	11/5/98 8:39
30	29	6.019	3.74	<AL	3.29	3.78	<MDA	1.50	11/5/98 8:41
31	30	0.610	2.01	<MDA	0.94	3.11	<MDA	1.50	11/5/98 8:43

COPY

AB 981109

367

Health Physics Counting Lab -- Wipe Analysis

Date: 11/5/98
Counting Unit id: 3
Data file name: C:\LBXL\UNIT3\Sme3B000.csv
Batch Ended: 11/5/98 9:44
Crosstalk Correction: Applied
Cal. Due Date: 12/3/98

Alpha activity action level (DPM): 20.00
Beta activity action level (DPM): 200.00

System Serial #: 59123
Batch ID: T 98-SM-162 BLANKENSHIP BLDG.39 FLOOR GR.B CYR

		Alpha Activity			Beta Activity			Count	Completion
Carrier	Sample	DPM	σ	flags	DPM	σ	flags	time (min)	Date - Time
15	31	2.422	2.70	<MDA	0.70	3.11	<MDA	1.50	11/5/98 8:44
57	32	2.396	2.73	<MDA	3.75	3.78	<MDA	1.50	11/5/98 8:46
59	33	0.584	2.04	<MDA	3.98	3.78	<MDA	1.50	11/5/98 8:48
95	34	2.435	2.69	<MDA	0.00	2.71	<MDA	1.50	11/5/98 8:50
108	35	2.383	2.74	<MDA	5.28	4.08	<AL	1.50	11/5/98 8:51
4	36	0.000	2.04	<MDA	4.22	3.78	<MDA	1.50	11/5/98 8:53
109	37	0.000	2.02	<MDA	2.69	3.46	<MDA	1.50	11/5/98 8:55
3	38	0.000	2.05	<MDA	5.74	4.08	<AL	1.50	11/5/98 8:56
112	39	2.435	2.69	<MDA	0.00	2.71	<MDA	1.50	11/5/98 8:58
8	40	0.000	2.08	<MDA	8.79	4.61	<AL	1.50	11/5/98 9:00
114	41	0.597	2.02	<MDA	2.46	3.46	<MDA	1.50	11/5/98 9:01
95	42	2.435	2.69	<MDA	0.00	2.71	<MDA	1.50	11/5/98 9:03
137	43	0.000	2.04	<MDA	4.22	3.78	<MDA	1.50	11/5/98 9:05
85	44	0.000	2.04	<MDA	4.22	3.78	<MDA	1.50	11/5/98 9:06
58	45	0.584	2.04	<MDA	3.98	3.78	<MDA	1.50	11/5/98 9:08
94	46	0.623	1.99	<MDA	0.00	2.71	<MDA	1.50	11/5/98 9:10
7	47	4.156	3.31	<AL	9.61	4.86	<AL	1.50	11/5/98 9:11
33	48	2.396	2.73	<MDA	3.75	3.78	<MDA	1.50	11/5/98 9:13
2	49	6.006	3.75	<AL	4.81	4.08	<MDA	1.50	11/5/98 9:15
8	50	0.545	2.08	<MDA	8.56	4.61	<AL	1.50	11/5/98 9:17
69	51	7.792	4.18	<AL	7.62	4.61	<AL	1.50	11/5/98 9:18
7	52	0.571	2.05	<MDA	5.51	4.08	<AL	1.50	11/5/98 9:20
94	53	0.000	2.04	<MDA	4.22	3.78	<MDA	1.50	11/5/98 9:22
9	54	0.000	2.04	<MDA	4.22	3.78	<MDA	1.50	11/5/98 9:23
11	55	0.000	2.02	<MDA	2.69	3.46	<MDA	1.50	11/5/98 9:25
139	56	2.422	2.70	<MDA	0.70	3.11	<MDA	1.50	11/5/98 9:27
127	57	0.545	2.08	<MDA	8.56	4.61	<AL	1.50	11/5/98 9:28
35	58	4.246	3.25	<AL	0.00	2.71	<MDA	1.50	11/5/98 9:30
91	59	0.000	2.02	<MDA	2.69	3.46	<MDA	1.50	11/5/98 9:32
87	60	0.571	2.05	<MDA	5.51	4.08	<AL	1.50	11/5/98 9:33

COPY

Health Physics Counting Lab -- Wipe Analysis

Date: 11/5/98
Counting Unit id: 3
Data file name: C:\LBXL\UNIT3\Sme3B000.csv
Batch Ended: 11/5/98 9:44
Crosstalk Correction: Applied
Cal. Due Date: 12/3/98

Alpha activity action level (DPM): 20.00
Beta activity action level (DPM): 200.00

System Serial #: 59123
Batch ID: T 98-SM-162 BLANKENSHIP BLDG.39 FLOOR GR.B CYR .

		Alpha Activity			Beta Activity			Count	Completion
Carrier	Sample	DPM	σ	flags	DPM	σ	flags	time (min)	Date - Time
114	61	0.584	2.04	<MDA	3.98	3.78	<MDA	1.50	11/5/98 9:35
150	62	0.000	1.99	<MDA	0.00	2.71	<MDA	1.50	11/5/98 9:37
70	63	0.532	2.09	<MDA	10.08	4.86	<AL	1.50	11/5/98 9:39
74	64	0.584	2.04	<MDA	3.98	3.78	<MDA	1.50	11/5/98 9:40
33	65	2.370	2.75	<MDA	6.80	4.35	<AL	1.50	11/5/98 9:42
5	66	0.558	2.07	<MDA	7.03	4.35	<AL	1.50	11/5/98 9:44

COPY

2.00
Mode: DPM Nuclide: SM VIAL Quench Set: SM VIAL
ground Subtract: 1st Vial

	LL	UL	LCR	2S%	BKG
ion A:	0.5	- 18.6	0	0.0	7.93
ion B:	2.0	- 18.6	0	0.0	7.53
ion C:	40.0	- 2000	0	0.0	12.10

ench Indicator: tSIE/AEC
Ext Std Terminator: Count
-SM-162 BLANKENSHIP BLDG.39 (30-12 I1-I66) CYR
minescence Correction On
incidence Time(ns): 18
lay Before Burst(ns): Normal
rotocol Data Filename: C:\DATA\PROT1.DAT
ount Data Filename: C:\DATA\SDATA4.DAT
pectrum Data Drive & Path: C:\DATA

COPY

S#	TIME	CPMA	CPMB	LUM	FLAG	tSIE	DPM1	2SIGMA	CPMC
-1	10.00	7.93	7.53	8	B	538.68		0.000	12.10
0	2.00	1328.66	1200.19	0		557.25	2826.42	183.810	0.40
1	2.00	0.43	0.61	6		570.65	0.90	9.442	0.07
2	2.00	0.00	0.00	0		576.90	0.00	0.000	0.00
3	2.00	0.00	0.00	0		561.76	0.00	0.000	0.00
4	2.00	1.10	1.00	5		521.27	2.44	10.274	0.00
5	2.00	0.00	0.00	57		202.08	0.00	0.000	3.36
6	2.00	0.00	0.00	0		528.17	0.00	0.000	2.90
7	2.00	0.00	0.00	0		508.98	0.00	0.000	0.00
8	2.00	0.00	0.00	0		574.33	0.00	0.000	0.90
9	2.00	0.00	0.00	0		523.35	0.00	0.000	0.00
10	2.00	0.00	0.00	0		584.01	0.00	0.000	0.00
11	2.00	0.00	0.00	0		364.48	0.00	0.000	0.00
12	2.00	0.45	0.35	0		530.70	0.98	9.852	0.00
13	2.00	0.57	0.00	0		561.93	1.21	9.575	0.00
14	2.00	2.83	0.00	35		418.93	6.83	15.803	0.00
15	2.00	0.07	0.00	6		482.84	0.17	10.204	0.00
16	2.00	1.57	0.97	0		582.55	3.28	9.873	0.40
17	2.00	0.00	0.00	0		504.79	0.00	0.000	0.40
18	2.00	0.57	0.00	12		432.88	1.37	10.799	0.00
19	2.00	0.51	0.00	53		317.30	1.49	21.117	0.00
20	2.00	1.57	1.19	5		499.83	3.57	10.754	0.00
21	2.00	2.07	1.96	0		454.66	4.88	11.412	0.00
22	2.00	2.09	1.86	0		519.91	4.65	10.757	0.00
23	2.00	0.78	0.44	6		544.96	1.68	9.838	0.00
24	2.00	3.30	1.86	4		565.10	6.97	10.757	0.00
25	2.00	2.74	3.14	0		559.59	5.82	10.569	0.00
26	2.00	0.00	0.00	0		550.95	0.00	0.000	0.00
27	2.00	1.07	0.30	6		571.41	2.25	9.734	0.00
28	2.00	2.15	1.68	0		572.56	4.53	10.207	0.00
29	2.00	2.46	2.36	0		453.63	5.81	11.609	0.00
30	2.00	0.00	0.00	9		445.86	0.00	0.000	0.00
31	2.00	1.07	0.00	6		534.53	2.34	10.109	0.00
32	2.00	1.81	1.50	0		520.23	4.03	10.623	0.90
33	2.00	2.57	1.84	5		519.38	5.71	10.981	1.90
34	2.00	1.84	0.73	5		565.11	3.88	10.127	0.00

S#	TIME	CPMA	CPMB	LUM FLAG	tSIE	DPM1	2SIGMA	CPMC
35	2.00	2.97	2.36	4	560.10	6.30	10.662	0.00
36	2.00	1.57	1.84	0	520.88	3.49	10.502	0.00
37	2.00	3.29	0.84	4	518.27	7.32	11.316	5.82
38	2.00	0.00	0.00	8	583.25	0.00	0.000	0.00
39	2.00	0.00	0.00	7	562.59	0.00	0.000	0.00
40	2.00	0.00	0.00	8	584.89	0.00	0.000	1.90
41	2.00	2.07	1.79	0	545.56	4.46	10.426	0.00
42	2.00	0.00	0.00	7	565.28	0.00	0.000	0.00
43	2.00	0.07	0.00	0	576.08	0.15	9.234	0.00
44	2.00	0.00	0.00	8	552.27	0.00	0.000	0.00
45	2.00	1.95	0.95	5	571.86	4.10	10.123	0.00
46	2.00	0.00	0.00	7	587.90	0.00	0.000	0.00
47	2.00	0.07	0.00	6	548.14	0.15	9.461	0.00
48	2.00	2.07	0.02	0	573.69	4.35	10.162	0.00
49	2.00	2.07	2.47	5	561.21	4.39	10.263	0.00
50	2.00	0.00	0.00	8	567.85	0.00	0.000	0.40
51	2.00	0.00	0.00	0	517.57	0.00	0.000	0.00
52	2.00	0.00	0.00	11	575.22	0.00	0.000	0.00
53	2.00	1.57	0.00	5	565.60	3.32	10.006	0.00
54	2.00	0.07	0.25	0	569.58	0.15	9.281	0.00
55	2.00	0.00	0.00	8	506.84	0.00	0.000	0.90
56	2.00	0.00	0.00	7	575.89	0.00	0.000	0.00
57	2.00	1.07	0.85	6	563.17	2.27	9.798	0.00
58	2.00	0.00	0.00	0	563.82	0.00	0.000	0.00
59	2.00	4.57	3.77	4	560.56	9.70	11.320	0.00
60	2.00	0.07	0.00	6	564.39	0.15	9.319	0.00
61	2.00	3.57	3.71	4	519.38	7.93	11.424	0.00
62	2.00	0.00	0.00	6	574.36	0.00	0.000	0.00
63	2.00	0.00	0.00	8	575.98	0.00	0.000	0.00
64	2.00	1.27	1.07	5	559.18	2.70	9.921	0.00
65	2.00	2.07	1.24	5	511.96	4.64	10.842	0.00
66	2.00	1.07	0.00	11	485.82	2.47	10.681	0.00

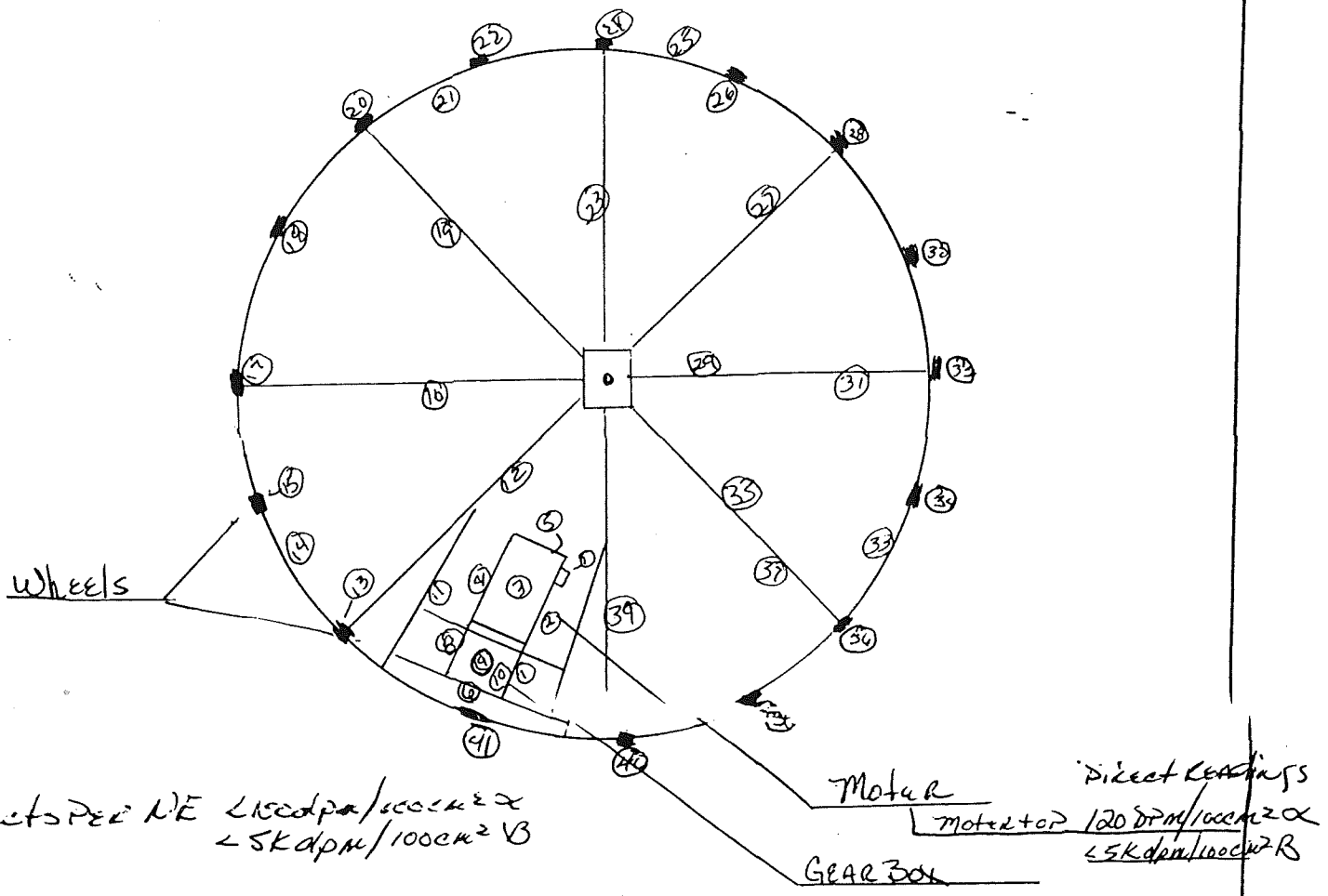
COPY

RADIOLOGICAL SURVEY DATA SHEET 711/710 30-11 P5

LOCATION: (BLDG./AREA/ROOM) Bldg 39 Turntable Frame	SURVEY NO. 98-SM-157
PURPOSE: Survey Turntable Frame	RWP NO. N/A
	DATE: 10-21-98
	TIME: 1400

MAP/DRAWING

COPY



LEGEND: # = mrem/hr (γ) whole body
E = mrem/hr (β+η+γ) extremity on contact
△# = mrem/hr neutron
[#] = air sample number
(#) = swipe number
(#/α) or /β = direct cont. measurement in dpm/100cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
NE	5318/5306	12/03/98
Fidler	3028/3851	N/A

Completed by: (Signature) John M Blankenship	HP# [redacted]	Date: 10-21-98
Completed by: (Print Name) JOHN M. BLANKENSHIP		
Counted by: (Signature) Carol Y. Robinson	HP# [redacted]	Date: 10-21-98
Counted by: (Print Name) CAROL Y. ROBINSON		
Reviewed/Approved by: (Signature) Roger J Blum	HP# [redacted]	Date: 981022
Reviewed/Approved by: (Print Name) ROGER BLUM		

2E41

ML-9620 (2-98)

RADIOLOGICAL SURVEY DATA SHEET (cont.)

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments
1				Motor
2				
3				
4				
5				Motor
6				Gear Box
7				
8				
9				
10				Gear
11				Frame
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments
* 36				
37				
38				
39				
* 40				
41				

COPY

COMMENTS: Fidler used as an indicator only, Fidler readings ≤ Bkgd of 3 kcpm, out ch. * Denotes H³ results

NOTES:
1. See MD-80036 10002 for calculations of WB, extremity and skin dose rates.
2. To request RO Count Room analysis for β/γ, alpha or tritium, leave column blank. Mark column N/A if not needed. If count room printout of results are attached, write "see attached" in column.
3. Annotate special sample type (e.g., soil, water), special identifiers or otherwise in Comments. If not needed, mark N/A.

ML-9620 (2-98)

Health Physics Counting Lab -- Wipe Analysis

Date: 10/21/98
Counting Unit id: 2
Data file name: C:\LBXL\UNIT2\Sme2E008.csv
Batch Ended: 10/21/98 14:25
Crosstalk Correction: Applied
Cal. Due Date: 11/26/98

Alpha activity action level (DPM): 20.00
Beta activity action level (DPM): 200.00

System Serial #: 59544
Batch ID: T 98-SM-157 BLANKENSHIP BLDG.39 GR.E (41) CYR

		Alpha Activity			Beta Activity			Count	Completion
Carrier	Sample	DPM	σ	flags	DPM	σ	flags	time (min)	Date - Time
4	1	0.542	2.02	<MDA	4.27	3.51	<AL	1.50	10/21/98 13:17
57	2	0.685	1.99	<MDA	1.24	2.78	<MDA	1.50	10/21/98 13:19
15	3	2.547	2.73	<MDA	1.06	2.78	<MDA	1.50	10/21/98 13:20
107	4	0.757	1.98	<MDA	0.00	2.33	<MDA	1.50	10/21/98 13:22
13	5	0.000	2.02	<MDA	4.45	3.51	<AL	1.50	10/21/98 13:24
59	6	0.000	1.97	<MDA	0.00	1.77	<MDA	1.50	10/21/98 13:25
41	7	0.255	2.06	<MDA	10.33	4.64	<AL	1.50	10/21/98 13:27
58	8	0.829	1.97	<MDA	0.00	1.77	<MDA	1.50	10/21/98 13:29
69	9	0.000	1.98	<MDA	0.00	2.33	<MDA	1.50	10/21/98 13:31
38	10	2.547	2.73	<MDA	1.06	2.78	<MDA	1.50	10/21/98 13:32
138	11	0.000	1.97	<MDA	0.00	1.77	<MDA	1.50	10/21/98 13:34
26	12	0.000	2.02	<MDA	4.45	3.51	<AL	1.50	10/21/98 13:36
4	13	0.757	1.98	<MDA	0.00	2.33	<MDA	1.50	10/21/98 13:37
140	14	0.000	1.97	<MDA	0.00	1.77	<MDA	1.50	10/21/98 13:39
89	15	3.834	3.35	<AL	13.00	5.11	<AL	1.50	10/21/98 13:41
85	16	4.264	3.32	<AL	3.91	3.51	<MDA	1.50	10/21/98 13:42
137	17	0.000	1.98	<MDA	0.00	2.33	<MDA	1.50	10/21/98 13:44
95	18	6.126	3.80	<AL	3.73	3.51	<MDA	1.50	10/21/98 13:46
85	19	0.000	2.02	<MDA	4.45	3.51	<AL	1.50	10/21/98 13:48
20	20	0.326	2.05	<MDA	8.82	4.39	<AL	1.50	10/21/98 13:49
81	21	0.901	1.97	<MDA	0.00	1.77	<MDA	1.50	10/21/98 13:51
22	22	0.000	1.98	<MDA	0.00	2.33	<MDA	1.50	10/21/98 13:53
21	23	0.901	1.97	<MDA	0.00	1.77	<MDA	1.50	10/21/98 13:54
61	24	0.000	1.99	<MDA	1.41	2.78	<MDA	1.50	10/21/98 13:56
119	25	4.552	3.29	<AL	0.00	1.77	<MDA	1.50	10/21/98 13:58
20	26	0.685	1.99	<MDA	1.24	2.78	<MDA	1.50	10/21/98 13:59
14	27	0.614	2.01	<MDA	2.75	3.17	<MDA	1.50	10/21/98 14:01
37	28	0.000	1.97	<MDA	0.00	1.77	<MDA	1.50	10/21/98 14:03
23	29	9.490	4.65	<AL	10.95	4.88	<AL	1.50	10/21/98 14:04
75	30	0.757	1.98	<MDA	0.00	2.33	<MDA	1.50	10/21/98 14:06

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Health Physics Counting Lab -- Wipe Analysis

Date: 10/21/98
Counting Unit id: 2
Data file name: C:\LBXL\UNIT2\Sme2E008.csv
Batch Ended: 10/21/98 14:25
Crosstalk Correction: Applied
Cal. Due Date: 11/26/98

Alpha activity action level (DPM): 20.00
Beta activity action level (DPM): 200.00

System Serial #: 59544
Batch ID: T 98-SM-157 BLANKENSHIP BLDG.39 GR.E (41) CYR

		Alpha Activity			Beta Activity			Count	Completion
Carrier	Sample	DPM	σ	flags	DPM	σ	flags	time (min)	Date - Time
22	31	0.000	1.97	<MDA	0.00	1.77	<MDA	1.50	10/21/98 14:08
9	32	4.193	3.32	<AL	5.42	3.83	<AL	1.50	10/21/98 14:10
140	33	0.829	1.97	<MDA	0.00	1.77	<MDA	1.50	10/21/98 14:11
133	34	0.000	1.98	<MDA	0.00	2.33	<MDA	1.50	10/21/98 14:13
30	35	0.000	1.98	<MDA	0.00	2.33	<MDA	1.50	10/21/98 14:15
90	36	0.000	1.97	<MDA	0.00	1.77	<MDA	1.50	10/21/98 14:16
93	37	2.690	2.71	<AL	0.00	1.77	<MDA	1.50	10/21/98 14:18
105	38	0.000	1.97	<MDA	0.00	1.77	<MDA	1.50	10/21/98 14:20
112	39	0.829	1.97	<MDA	0.00	1.77	<MDA	1.50	10/21/98 14:21
53	40	0.829	1.97	<MDA	0.00	1.77	<MDA	1.50	10/21/98 14:23
37	41	0.829	1.97	<MDA	0.00	1.77	<MDA	1.50	10/21/98 14:25

Copy

10-22-98

Page 5 of 5

Oct 98 15:37 ALPHA/BETA - 1.01 Page #1
otocol #: 5 PW 5CC H3 #403727 User : 5681

10-22-98

ie: 2.00
ta Mode: DPM Nuclide: SMVIAL Quench Set: SMVIAL
ckground Subtract: 1st Vial

	LL	UL	LCR	2S%	BKG
Region A:	0.5 -	18.6	0	0.0	7.40
Region B:	2.0 -	18.6	0	0.0	7.10
Region C:	40.0 -	2000	0	0.0	13.70

Quench Indicator: tSIE/AEC
Ext Std Terminator: Count
98-SM-157 BLANKENSHIP BLDG.39 (30-11 N1-N10) CYR
Luminescence Correction On
Coincidence Time(ns): 18
Delay Before Burst(ns): Normal
Protocol Data Filename: C:\DATA\PROT5.DAT
Count Data Filename: C:\DATA\SDATA5.DAT

COPY

S#	TIME	CPMA	CPMB	CPMC	tSIE	LUM	FLAG	DPM1	2SIGMA
-1	10.00	7.40	7.10	13.70	618.30	3	B		0.00
0	2.00	1122.60	1071.90	0.00	610.19	0		2520.46	213.18
1	2.00	14.60	14.40	19.80	511.37	0		36.65	17.41
2	2.00	13.10	11.90	4.30	517.55	0		32.66	16.70
3	2.00	9.10	8.90	0.30	482.92	0		23.38	15.50
4	2.00	50.60	44.90	54.80	571.37	0		118.84	27.05
5	2.00	0.60	0.90	0.00	504.12	0		1.52	11.02
6	2.00	16.10	15.40	1.30	505.13	0		40.70	18.12
7	2.00	3.10	2.40	4.80	488.81	0		7.96	12.59
8	2.00	0.60	0.40	1.80	482.64	0		1.54	11.19
9	2.00	18.10	16.40	26.30	487.83	0		46.50	19.18
10	2.00	8.60	7.90	8.80	519.95	0		21.39	14.79

REQUEST TO STAGE CONCRETE DEBRIS AT CONSTRUCTION SPOILS AREA

Work Location: Building 101

Approximate Volume: 40 cu yds.

Requestor Project Group: SM/PP Hill

Project Point of Contact: Bill Naumann x 3575

Name/Phone Ext.: Rich Beaver x 3738

MSR #: NA

Charge #: G00496

Process Knowledge *(attach documentation, if more space needed)*: Concrete from Modular 101 footers. No history of radiological operations or contamination in area. Non-RMMA.

PRS #: _____ PRS Binning Status: ☐ NFA ☐ RA ☐ FA ☐ NFA Pending Stakeholder Review

Cleanup Criteria of Soils: _____

Oil/Asbestos/Hazardous Waste Present: ☒ No ☐ Yes If yes, explain _____

RWP #: NA

Identify how area is posted: (e.g. URMA, SCA, CA, HCA, RMA, RMMA, FCA, etc.) Not posted.

Radionuclides of Concern: None.

Radiological Surface Contamination Survey Results:	☒ <MD-10019 Table 2-2 criteria	☐ >MD-10019 Table 2-2 criteria
In-process monitoring results of excavation equipment:	☐ <MD-10019 Table 2-2 criteria	☐ >MD-10019 Table 2-2 criteria

Activation Concerns: ☒ No ☐ Yes If yes, explain _____

Soil Sample Results *(list highest values for all radionuclides of concern and associated MDA value in pCi/g): Copies of soil sample results may be attached.*

Area never posted as a radiological or soil contamination area. No radionuclides of concern.

Air Sampling/Core Sampling Data: _____

Concrete Debris is: ☐ [1]Contaminated ☒ [2]Not Contaminated

[1]Contaminated may be for radiological, chemical, hazardous reasons. It is the responsibility of each Project Manager to perform appropriate testing and make this determination.

[2]Indicating that the debris is not contaminated in no way allows for its unrestricted radiological release. It demonstrates only the way in which it will be managed at the Construction Spoils Area. ~~MD-3CC13, Operation 500 requirements apply for unrestricted release of bulk material.~~

PROJECT MANAGER NAME/SIGNATURE:	DATE
[signature]	9/3/98

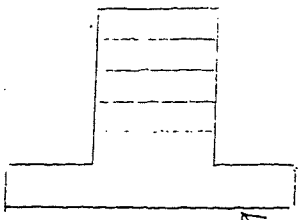
ML-9817

RADIOLOGICAL SURVEY DATA SHEET

LOCATION: (BLDG./AREA/ROOM) From Bldg 101 BYSM water tower	SURVEY NO. 98-38-677
PURPOSE: Survey of Pillars and Piping from underneath Bldg 101	RWP NO. N/A
	DATE: 08-27-98
	TIME: 1030 hrs

MAP/DRAWING

COPY



Concrete Pilars from Bldg 101

1 thru 13 dirt side

14 - 20 on pipes

Various water pipes from underneath Bldg 101

LEGEND: # = mrem/hr (γ) whole body
E = mrem/hr (β+η+γ) extremity on contact
△# = mrem/hr neutron
[#] = air sample number
(#) = swipe number
(#/α) or /β = direct cont. measurement in dpm/100cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
NE	5296/5427	02-06-99
	NE	

Completed by: (Signature) John M Blankenship	HP# [redacted]	Date: 08-27-98
Completed by: (Print Name) John M Blankenship		
Counted by: (Signature) Carol Y. Robinson	HP# [redacted]	Date: 8-27-98
Counted by: (Print Name) CAROL Y. ROBINSON		
Reviewed/Approved by: (Signature) Amy M Snyder	HP# [redacted]	Date: 8-31-98
Reviewed/Approved by: (Print Name) Amy M. SNYDER		

ML-9620 (2-98)

RADIOLOGICAL SURVEY DATA SHEET (cont.)

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments
1			N/A	Pillar
2				
3				
4				
5				
6				
7				
8				
9	SEE ATTACHED	SEE ATTACHED		
10				
11				
12				
13				Pillar
14				Pipe
15				
16				
17				
18				
19				
20			N/A	Pipe
21				
			N/A	

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments
			N/A	

COMMENTS: Pillars had to be turned over to survey dirt side.

NOTES:

1. See MD-80036 10002 for calculations of WB, extremity and skin dose rates.
2. To request RO Count Room analysis for β/γ, alpha or tritium, leave column blank. Mark column N/A if not needed. If count room printout of results are attached, write "see attached" in column.
3. Annotate special sample type (e.g., soil, water), special identifiers or otherwise in Comments. If not needed, mark N/A.

9620 (2-98)

Health Physics Counting Lab -- Wipe Analysis

Date: 8/31/98
Counting Unit id: 2
Data file name: C:\LBXL\UNIT2\Sme2G001.csv
Batch Ended: 8/27/98 15:31
Crosstalk Correction: Applied
Cal. Due Date: 11/26/98

Alpha activity action level (DPM): 20.00
Beta activity action level (DPM): 200.00

System Serial #: 59544
Batch ID: X 98-38-677 BLANKENSHIP BLDG.101 GR.G (20) CYR

Carrier	Sample	Alpha Activity DPM	Alpha Activity σ	Alpha Activity flags	Beta Activity DPM	Beta Activity σ	Beta Activity flags	Count time (min)	Completion Date - Time
136	1	0.000	1.99	<MDA	1.41	2.78	<MDA	1.50	8/27/98 14:59
21	2	0.829	1.97	<MDA	0.00	1.77	<MDA	1.50	8/27/98 15:00
148	3	2.690	2.71	<AL	0.00	1.77	<MDA	1.50	8/27/98 15:02
31	4	0.685	1.99	<MDA	1.24	2.78	<MDA	1.50	8/27/98 15:04
1	5	0.000	1.98	<MDA	0.00	2.33	<MDA	1.50	8/27/98 15:05
12	6	0.000	1.97	<MDA	0.00	1.77	<MDA	1.50	8/27/98 15:07
7	7	0.000	1.99	<MDA	1.41	2.78	<MDA	1.50	8/27/98 15:09
126	8	0.000	2.01	<MDA	2.93	3.17	<MDA	1.50	8/27/98 15:10
70	9	0.000	1.99	<MDA	1.41	2.78	<MDA	1.50	8/27/98 15:12
57	10	0.829	1.97	<MDA	0.00	1.77	<MDA	1.50	8/27/98 15:14
21	11	0.685	1.99	<MDA	1.24	2.78	<MDA	1.50	8/27/98 15:15
27	12	4.408	3.30	<AL	0.88	2.78	<MDA	1.50	8/27/98 15:17
14	13	0.685	1.99	<MDA	1.24	2.78	<MDA	1.50	8/27/98 15:19
11	14	0.000	1.98	<MDA	0.00	2.33	<MDA	1.50	8/27/98 15:21
114	15	0.829	1.97	<MDA	0.00	1.77	<MDA	1.50	8/27/98 15:22
49	16	0.000	1.97	<MDA	0.00	1.77	<MDA	1.50	8/27/98 15:24
33	17	0.000	1.98	<MDA	0.00	2.33	<MDA	1.50	8/27/98 15:26
32	18	0.000	1.97	<MDA	0.00	1.77	<MDA	1.50	8/27/98 15:27
14	19	0.901	1.97	<MDA	0.00	1.77	<MDA	1.50	8/27/98 15:29
117	20	0.000	1.97	<MDA	0.00	1.77	<MDA	1.50	8/27/98 15:31

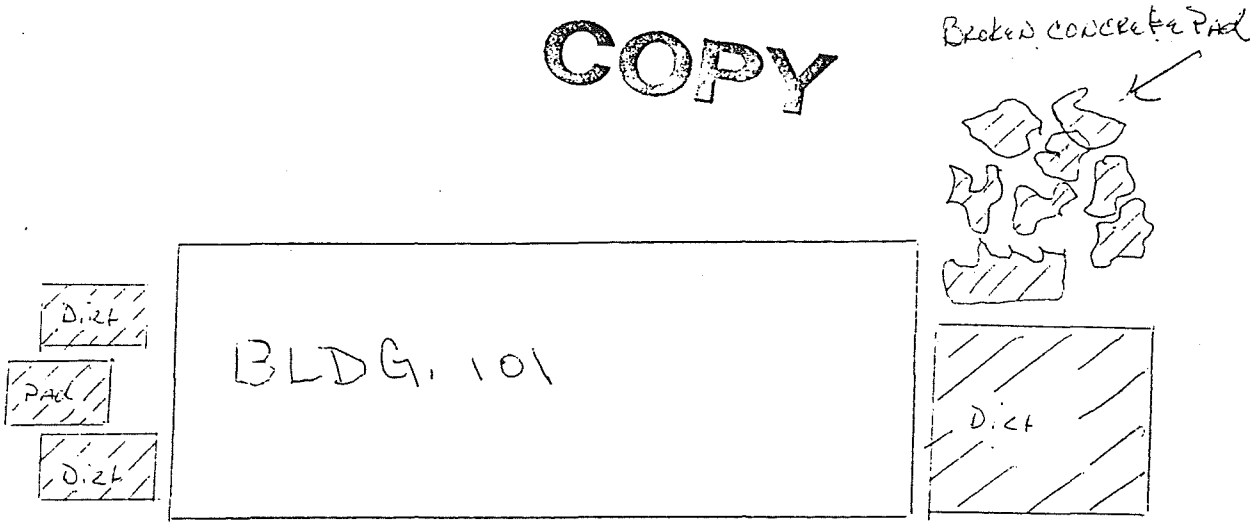
RADIOLOGICAL SURVEY DATA SHEET

LOCATION: (BLDG./AREA/ROOM) Bldg 101	SURVEY NO. 98-38-640
PURPOSE: SURVEY GROUND BENEATH CONCRETE SURVEY CONCRETE	RWP NO. N/A
	DATE: 08-12-98
	TIME: 1300

MAP/DRAWING

= SCAN AREA'S - WIPE AREA'S

COPY



Fidler No Detectable Above Background of 4k out channel

Directs Per NE < 100 DPM/100cm² β
< 5000 DPM/100cm² β

LEGEND: # = mrem/hr (γ) whole body
E = mrem/hr (β+η+γ) extremity on contact
△# = mrem/hr neutron
[#] = air sample number
(#) = swipe number
(#/α) or /β = direct cont. measurement in dpm/100cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
NE	5296/5427	02/06/98
Fidler	3028/3851	N/A
	NFE	

Completed by: (Signature) John M Blankenship	[redacted]	Date: 08-12-98
Completed by: (Print Name) John M Blankenship		
Counted by: (Signature) [signature]	[redacted]	Date: 8-13-98
Counted by: (Print Name) Mike Ball		
Reviewed/Approved by: (Signature) [signature]	[redacted]	Date: 8-17-98
Reviewed/Approved by: (Print Name) Andy M. Snyder		

ML-9620 (2-98)

GROUP B

RADIOLOGICAL SURVEY DATA SHEET (cont.)

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments
1			N/A	FRONT PAD
2				FRONT PAD
3				FRONT PAD
4				FRONT PAD
5				FRONT PAD
6				FRONT PAD
7				FRONT PAD
8				FRONT PAD
9				BACK CONCRETE
10				BACK CONCRETE
11				BACK CONCRETE
12				BACK CONCRETE
13				BACK CONCRETE
14				BACK CONCRETE
15				BACK CONCRETE
16				BACK CONCRETE
17				BACK CONCRETE
18				BACK CONCRETE
19				BACK CONCRETE
20				BACK CONCRETE
21				BACK CONCRETE
22				DIRT BACK
23				DIRT BACK
24				DIRT BACK
25				DIRT BACK
26				DIRT FRONT
27			N/A	DIRT FRONT
			N/A	

ATTACHED

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments
			N/A	

COMMENTS: N/A

NOTES:
1. See MD-80036 10002 for calculations of WB, extremity and skin dose rates.
2. To request RO Count Room analysis for β/γ, alpha or tritium, leave column blank. Mark column N/A if not needed. If count room printout of results are attached, write "see attached" in column.
3. Annotate special sample type (e.g., soil, water), special identifiers or otherwise in Comments. If not needed, mark N/A.

L-9620 (2-98)

Health Physics Counting Lab -- Wipe Analysis

Date: 8/17/98
Counting Unit id: 3
Data file name: C:\LBXL\UNIT3\Sme3B000.csv
Batch Ended: 8/13/98 14:09
Crosstalk Correction: Applied
Cal. Due Date: 12/3/98

Alpha activity action level (DPM): 20.00
Beta activity action level (DPM): 200.00

System Serial #: 59123
Batch ID: 98-38-640 BLANKENSHIP (27)

MB

Carrier	Sample	Alpha Activity DPM	Alpha Activity σ	Alpha Activity flags	Beta Activity DPM	Beta Activity σ	Beta Activity flags	Count time (min)	Completion Date - Time
17	1	0.000	2.01	<MDA	1.17	3.11	<MDA	1.50	8/13/98 13:25
132	2	0.584	2.04	<MDA	3.98	3.78	<MDA	1.50	8/13/98 13:27
102	3	0.000	1.98	<MDA	0.00	2.24	<MDA	1.50	8/13/98 13:28
68	4	0.000	2.04	<MDA	4.22	3.78	<MDA	1.50	8/13/98 13:30
38	5	0.558	2.07	<MDA	7.03	4.35	<AL	1.50	8/13/98 13:32
141	6	0.610	2.01	<MDA	0.94	3.11	<MDA	1.50	8/13/98 13:34
4	7	0.623	1.99	<MDA	0.00	2.71	<MDA	1.50	8/13/98 13:35
14	8	0.000	1.99	<MDA	0.00	2.71	<MDA	1.50	8/13/98 13:37
19	9	0.000	2.01	<MDA	1.17	3.11	<MDA	1.50	8/13/98 13:39
89	10	0.000	1.98	<MDA	0.00	2.24	<MDA	1.50	8/13/98 13:40
123	11	2.383	2.74	<MDA	5.28	4.08	<AL	1.50	8/13/98 13:42
113	12	0.000	2.01	<MDA	1.17	3.11	<MDA	1.50	8/13/98 13:44
9	13	0.000	1.99	<MDA	0.00	2.71	<MDA	1.50	8/13/98 13:45
17	14	0.623	1.99	<MDA	0.00	2.71	<MDA	1.50	8/13/98 13:47
23	15	0.623	1.99	<MDA	0.00	2.71	<MDA	1.50	8/13/98 13:49
100	16	0.000	1.99	<MDA	0.00	2.71	<MDA	1.50	8/13/98 13:50
95	17	0.000	2.02	<MDA	2.69	3.46	<MDA	1.50	8/13/98 13:52
94	18	0.649	1.98	<MDA	0.00	2.24	<MDA	1.50	8/13/98 13:54
93	19	0.000	1.98	<MDA	0.00	2.24	<MDA	1.50	8/13/98 13:55
55	20	0.000	2.02	<MDA	2.69	3.46	<MDA	1.50	8/13/98 13:57
93	21	0.558	2.07	<MDA	7.03	4.35	<AL	1.50	8/13/98 13:59
89	22	0.623	1.99	<MDA	0.00	2.71	<MDA	1.50	8/13/98 14:00
73	23	0.649	1.98	<MDA	0.00	2.24	<MDA	1.50	8/13/98 14:02
9	24	0.597	2.02	<MDA	2.46	3.46	<MDA	1.50	8/13/98 14:04
20	25	2.422	2.70	<MDA	0.70	3.11	<MDA	1.50	8/13/98 14:06
82	26	0.610	2.01	<MDA	0.94	3.11	<MDA	1.50	8/13/98 14:07
144	27	0.597	2.02	<MDA	2.46	3.46	<MDA	1.50	8/13/98 14:09

KRF 8/17/98

REQUEST TO STAGE CONCRETE DEBRIS AT CONSTRUCTION SPOILS AREA

Work Location: Bld 118 foundation

Approximate Volume: 20 cu yards

Requestor Project Group: SWPP HILL Project

Project Point of Contact: Rich Bauer X 3738

Name/Phone Ext.: Amy Smyth X 3813

MSR #: _____

Charge #: 0-00031 Bill Naumann X 3575

Process Knowledge *(attach documentation, if more space needed)*: Concrete slab was installed to support modular Bld 118. These areas did not have a history of storage or processing radioactive materials.

PRS #: NA

PRS Binning Status: ☐ NFA ☐ RA ☐ FA ☐ NFA Pending Stakeholder Review

Cleanup Criteria of Soils: NA

Oil/Asbestos/Hazardous Waste Present: ☒ No ☐ Yes If yes, explain: personal property modular building

RWP #: NA

Identify how area is posted: (e.g. URMA, SCA, CA, HCA, RMA, RMMA, FCA, etc.) NOT posted

Radionuclides of Concern: NA

Radiological Surface Contamination Survey Results:	☑ <MD-10019 Table 2-2 criteria	☐ >MD-10019 Table 2-2 criteria
In-process monitoring results of excavation equipment:	☑ <MD-10019 Table 2-2 criteria	☐ >MD-10019 Table 2-2 criteria

Activation Concerns: ☑ No ☐ Yes If yes, explain: _____

Soil Sample Results *(list highest values for all radionuclides of concern and associated MDA value in pCi/g): Copies of soil sample results may be attached.*

Pu-238 highest result < MDA. ~~4~~ 5 AMS sample results. MDA ~ 25 pCi/g. See attached. Average of 5 samples < 25 pCi/g.

Air Sampling/Core Sampling Data: NA

Concrete Debris is: ☐ [1]Contaminated ☒ [2]Not Contaminated

[1]Contaminated may be for radiological, chemical, hazardous reasons. It is the responsibility of each Project Manager to perform appropriate testing and make this determination.

[2]Indicating that the debris is not contaminated in no way allows for its unrestricted radiological release. It demonstrates only the way in which it will be managed at the Construction Spoils Area. MD-80043, Operation 500 requirements apply for unrestricted release of bulk material.

PROJECT MANAGER NAME/SIGNATURE:	DATE
[signature]	4/20/98

ML-9817

SOIL ANALYSIS REPORT

FIELD SAMPLE ID:
LAB SAMPLE ID: HPG02472
FILE ID: F9800197.S0
PRIORITY:

Description\Location:
MODULAR 118 #3

Collector: J. Blankenship, [redacted]

Date Received: 4/15/98 **Date Collected:**

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.01	0.01	45,000
Cs-137	*	0.01	0.01	45,000
Pb-210		0.65	0.23	45,000
Ra-226		1.73	0.29	800
Ac-227 (D)	*	0.00	0.08	40
Th-230	*	0.00	2.49	800
Th-232 (D)		0.46	0.04	130
Pu-238	*	0.00	24.22	500
Am-241	*	0.00	0.03	500

Other Nuclides:

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ DOT **0.03** **nCi/g**

Σ Respirator **0.06**

Σ Respirator <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4.

Σ DOT 2 nCi/g limit, total activity.

(D) Denotes identification by daughter emissions.
Sample is assumed to be in secular equilibrium.

* Indicates activity < MDA. MDA used in limits calculation.

Instrument type: High Purity Germanium

Comments:

Date: 4/16/98 Counted By: [redacted] Analyzed By: [redacted] INITIALS

SOIL ANALYSIS REPORT

FIELD SAMPLE ID:
LAB SAMPLE ID: HPG02473
FILE ID: F9800198.S0
PRIORITY:

Description\Location:
MODULAR 118 #4

Collector: J. Blankenship[redacted]

Date Received: 4/15/98 **Date Collected:**

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.00	0.01	45,000
Cs-137	*	0.01	0.01	45,000
Pb-210		0.90	0.24	45,000
Ra-226		2.16	0.28	800
Ac-227 (D)	*	0.01	0.09	40
Th-230	*	0.08	2.83	800
Th-232 (D)		0.52	0.04	130
Pu-238	*	1.07	27.40	500
Am-241	*	0.00	0.03	500

Other Nuclides:

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ DOT **0.03** **nCi/g**

Σ Respirator **0.07**

Σ Respirator <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4.

Σ DOT 2 nCi/g limit, total activity.

(D) Denotes identification by daughter emissions.
Sample is assumed to be in secular equilibrium.

* Indicates activity < MDA. MDA used in limits calculation.

Instrument type: High Purity Germanium

Comments:

Date: 4/16/98 Counted By: [redacted] Analyzed By: [redacted] INITIALS

SOIL ANALYSIS REPORT

FIELD SAMPLE ID:
LAB SAMPLE ID: HPG02474
FILE ID: F9800199.S0
PRIORITY:

Description\Location:
MODULAR 118 #5

Collector: J. Blankenship[redacted]

Date Received: 4/15/98 **Date Collected:**

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.00	0.01	45,000
Cs-137		0.02	0.01	45,000
Pb-210		1.01	0.23	45,000
Ra-226		1.90	0.31	800
Ac-227 (D)	*	0.04	0.14	40
Th-230	*	0.90	2.69	800
Th-232 (D)		0.49	0.04	130
Pu-238	*	13.03	26.08	500
Am-241	*	0.00	0.03	500

Other Nuclides:

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ DOT **0.03** **nCi/g**

Σ Respirator **0.07**

Σ Respirator <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4.

Σ DOT 2 nCi/g limit, total activity.

(D) Denotes identification by daughter emissions.
Sample is assumed to be in secular equilibrium.

* Indicates activity < MDA. MDA used in limits calculation.

Instrument type: High Purity Germanium

Comments:

Date: 4/16/98 Counted By: [redacted] Analyzed By: [redacted] INITIALS JSS

SOIL ANALYSIS REPORT

FIELD SAMPLE ID:
LAB SAMPLE ID: HPG02470
FILE ID: F9800195.S0
PRIORITY:

Description\Location:
MODULAR 118 #1

Collector: J. Blankenship[redacted]

Date Received: 4/15/98 **Date Collected:**

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.01	0.01	45,000
Cs-137		0.02	0.01	45,000
Pb-210		0.69	0.24	45,000
Ra-226		1.51	0.31	800
Ac-227 (D)	*	0.00	0.09	40
Th-230	*	1.41	2.70	800
Th-232 (D)		0.45	0.04	130
Pu-238	*	1.82	25.27	500
Am-241	*	0.00	0.03	500

Other Nuclides:

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ DOT **0.03** **nCi/g**

Σ Respirator **0.06**

Σ Respirator <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4.

Σ DOT 2 nCi/g limit, total activity.

(D) Denotes identification by daughter emissions.
Sample is assumed to be in secular equilibrium.

* Indicates activity < MDA. MDA used in limits calculation.

Instrument type: High Purity Germanium

Comments:

Date: 4/16/98 Counted By: [redacted] Analyzed By: [redacted] INITIALS

SOIL ANALYSIS REPORT

FIELD SAMPLE ID:
LAB SAMPLE ID: HPG02471
FILE ID: F9800196.S0
PRIORITY:

Description\Location:
MODULAR 118 #2

Collector: J. Blankenship, [redacted]

Date Received: 4/15/98 **Date Collected:**

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.01	0.01	45,000
Cs-137		0.04	0.01	45,000
Pb-210		1.08	0.20	45,000
Ra-226		1.49	0.26	800
Ac-227 (D)	*	0.03	0.08	40
Th-230	*	0.00	2.60	800
Th-232 (D)		0.31	0.04	130
Pu-238	*	7.36	23.55	500
Am-241	*	0.00	0.03	500

Other Nuclides:

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ DOT 0.03 nCi/g

Σ Respirator 0.06

Σ Respirator <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4.

Σ DOT 2 nCi/g limit, total activity.

(D) Denotes identification by daughter emissions.
Sample is assumed to be in secular equilibrium.

* Indicates activity < MDA. MDA used in limits calculation.

Instrument type: High Purity Germanium

Comments:

Date: 4/16/98 Counted By: [redacted] Analyzed By: [redacted] INITIALS JSS

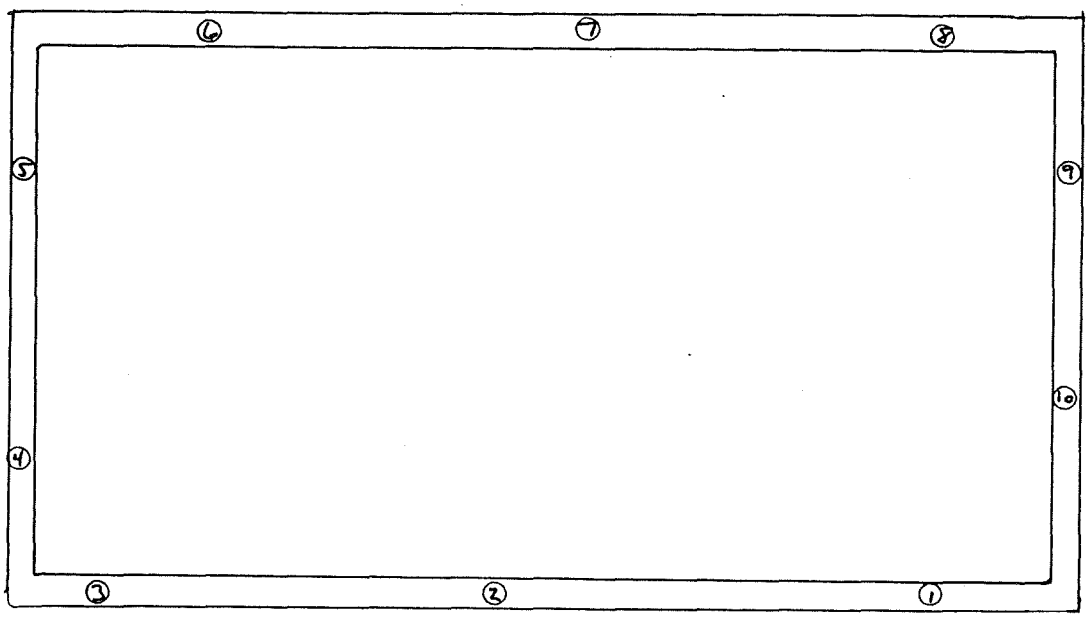
RADIOLOGICAL SURVEY DATA SHEET

LOCATION: (BLDG./AREA/ROOM) Guard Trailer N Bldg 44 Bldg 120	SURVEY NO. 98-SM-066
PURPOSE: Contamination Survey	RWP NO. N/A
	DATE: 3/4/98
	TIME: 0900

MAP/DRAWING

Trailer

COPY



Bottom View

LEGEND: # = mrem/hr (γ) whole body
E = mrem/hr (β+η+γ) extremity on contact
△# = mrem/hr neutron
[#] = air sample number
(#) = swipe number
(#/α) or /β = direct cont. measurement in dpm/100cm^2

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
Electra	5293/5300	7.30.98

Completed by: (Signature/HP#) [redacted]	Date: 3.4.98
Counted by: (Signature/HP#) [redacted]	Date: 3.4.98
Reviewed/Approved by: (Signature/HP#) [redacted]	Date: 3-23-98

ML-9620 (8-97)

RADIOLOGICAL SURVEY DATA SHEET (cont.)

Charge Authorization No. _____

☐ All swipes < MD10019, Table 2.2 values except as noted.

Swipes (dpm/100cm²)

Sample #	β/γ	Alpha	Tritium		Comments
1	<1K	<20	N/A		
2	<1K	<20			
3	<1K	<20			
4	4K	<20			
5	<1K	<20			
6	<1K	<20			
7	<1K	<20			
8	<1K	<20			
9	<1K	<20			
10	<1K	<20	N/A		

☐ All swipes < MD10019, Table 2.2 values except as noted.

Swipes (dpm/100cm²)

Sample #	β/γ	Alpha	Tritium	Comments

COPY

AIR SAMPLE DATA

Sample ID or Serial #	Date & Time On	Date & Time Off	Flow Rate	Activity (DAC)

AIR SAMPLE DATA

Sample ID or Serial #	Date & Time On	Date & Time Off	Flow Rate	Activity (DAC)

COMMENTS: Only surveyed the bottom part that was touching the ground.

NOTES:

1. See MD-80036 10002 for calculations of WB, extremity and skin dose rates.
2. To request RO Count Room analysis for β/γ, alpha or tritium, leave column blank. Mark column N/A if not needed. If count room printout of results are attached, write "see attached" in column.
3. Annotate special sample type (e.g., soil, water), special identifiers or otherwise in Comments. If not needed, mark N/A.

For BWO internal use only.

Hierarchy For: Close Out Report for Removal By Auction of Buildings 4, 39, 101, 118, 120, and GP-2

Document that directed this document be produced: USEPA Region 5 and State of Ohio; Federal Facility Agreement Under CERCLA 120; In the Matter of the USDOE's Mound Plant; Miamisburg, OH; July 15, 1993.

LEVEL 1 LAWS/REGULATIONS (Imposed by Outside Authority)

LEVEL 2 AGREEMENTS

LEVEL 3 MOUND SITE-WIDE DOCUMENTS (POLICY & GUIDANCE FROM BWO)

LEVEL 4 ORGANIZATIONAL/OPERATIONS DOCUMENTS

LEVEL 5 PROCEDURAL/INSTRUCTIONAL DOCUMENTS

LEVEL 6 REPORTS AND PERFORMANCE INDICATORS	Close Out Report