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*Mound Site
CERCLA
Reading Room Copy*



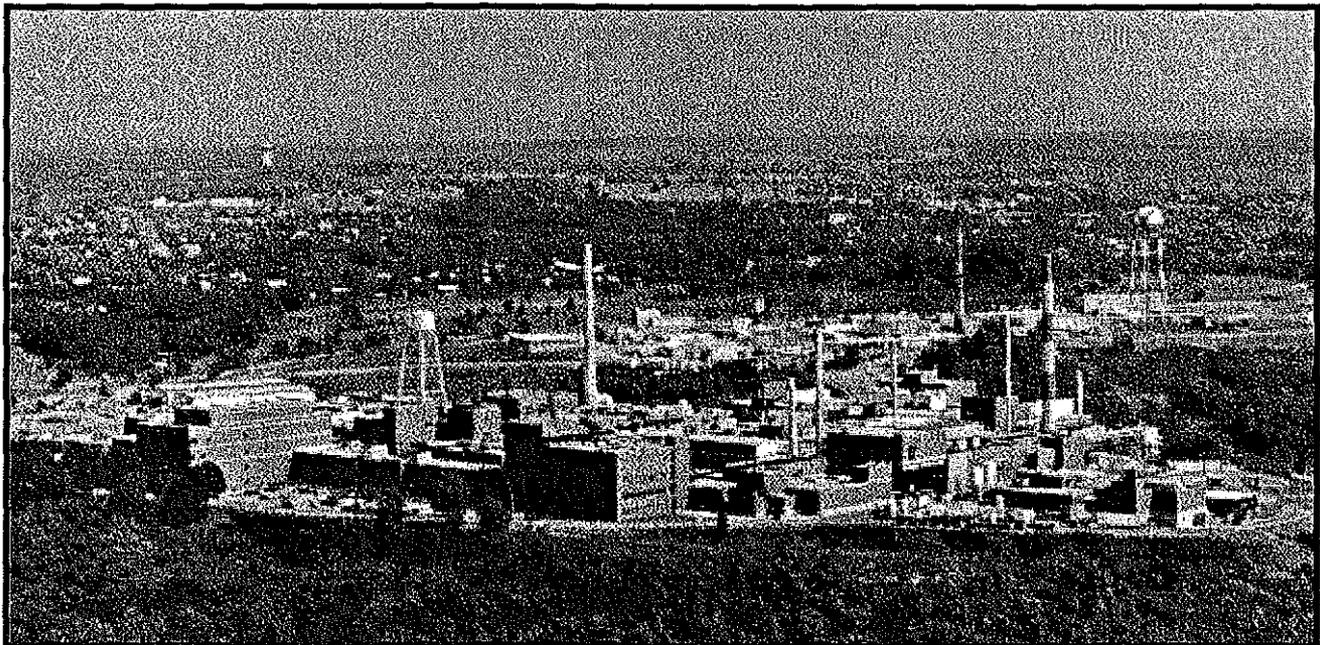
**Environmental
Restoration
Program**



Miamisburg Closure Project CLOSEOUT REPORT

Buildings PH and 24 (Demolition)

Final
March 2006



Buildings PH and 24

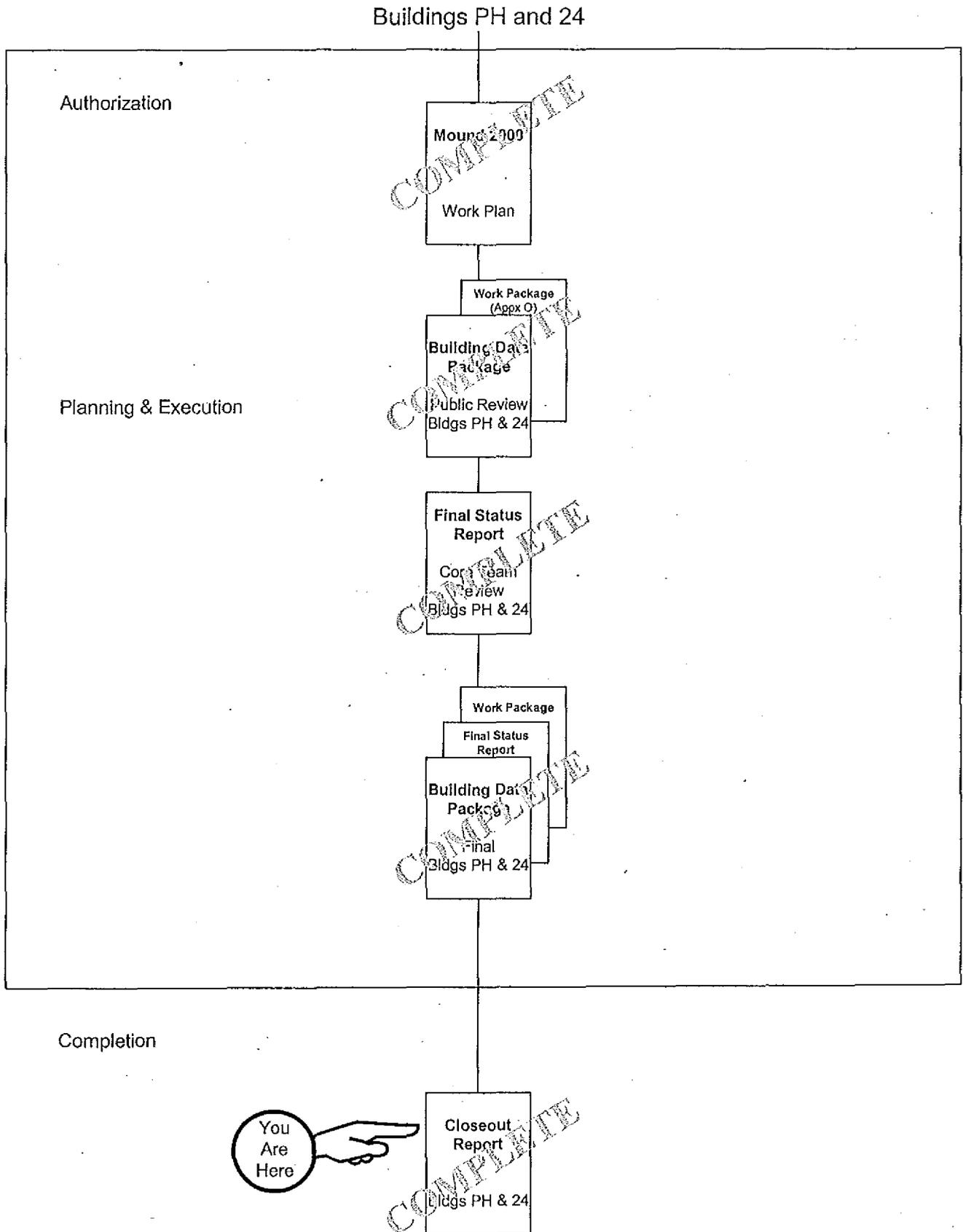


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1.0 PURPOSE

This is the final report documenting completion of the demolition of Buildings Pump House (PH) and 24 located at the Department of Energy (DOE) Miamisburg Closure Project (MCP) Site, as shown in the figures provided in Appendix A. The demolition of the Buildings PH and 24 superstructures, slabs, associated foundation walls/footers to three feet below grade, utility structures, stanchions, and stanchion lines, except for removal of the fuel oil line piping/valves (south of Building PH) and final site restoration, was accomplished per the Work Package for the Demolition of Buildings 24 and PH (BOSS-40391-00). A copy of the Work Package was included in Appendix O of the Building Data Package (BDP) for Buildings PH and 24. The scope of work relating to these buildings and adjacent structures, except for removal of the fuel oil line piping/valves and final site restoration, is considered complete. Removal of the fuel oil line piping/valves and final site restoration will be completed as part of the PRS 441 Contingent Removal Action.

2.0 BACKGROUND

2.1 Buildings PH and 24

Building PH

Building PH, one of the original buildings constructed at Mound in 1948, was built as a facility to pump fuel oil and brine water to the Mound facility power plant (Building P). PH building was situated in the west-central portion of the site, just north of the site Soil Staging Area and approximately 5 feet (ft.) to the east of Building 24 (Appendix A, Figure 1). Buildings PH and 24 are within the boundary of PRS 441 (Reference Figure 3 of Appendix A).

PH Building was constructed as a one-story, two-room structure, measuring 37 feet-4 inches by 16 feet-4 inches by 10-feet high (approximately 610 square feet of floor space). The building walls, ceiling, and floor were of poured, reinforced concrete construction. The walls were 8-inch thick and the floor slab was 5-inch thick concrete. The ceiling/roof was 4-inch thick reinforced concrete with concrete beams (12 inches x 14 inches) along the north-south centerline of each room ceiling, (two beams total). The concrete ceiling/roof was waterproofed with a "built-up-membrane" of felt coated with asphalt and gravel. In the original construction, there were two pits in PH Building. The pit floors served as footers for building walls. The pit on the western end of the building (approximately 5-feet by 15-feet by 6-feet deep) contained piping, and valving for the two chlorinating units in the west room. A well water supply line also passed through this pit. The pit on the eastern end of the building contained two brine pumps. The chlorinating units and valving were removed from the building in the 1950s. The brine pumps and associated piping were removed from the building in the late 1960s. The fuel oil pumps and associated piping were removed from the building in the early-mid 1970s, and later the pump-pit in the east room was partially filled in with concrete (a pit approximately five feet by eight feet by six feet deep remained). No other structural changes had been made to the building.

As part of the original construction plan, a 3872 square-foot, in-ground (not buried), concrete brine tank, located approximately thirty-three feet to the east of PH Building, was built to support brine processing of the well water. The brine tank and associated piping were removed in the 1970s when the PH Building brine pumps were removed. Also as part of the original construction plan, a 300,000-gallon aboveground steel tank, located approximately 120-feet to the south of PH Building, was built to store No. 6 fuel oil. The fuel tank was originally sited in an earthen-diked containment pit to capture and retain any fuel spills. Due to erosion, the containment pit was replaced with an asphalt dike and pad around the tank in the late 1960s. The fuel oil for the tank was originally delivered by rail car, pumped from the rail cars to the tank via the PH building fuel oil pumps. The rail spur ran south of PH Building (between PH Building and the fuel tank). The fuel tank, containment pit, and associated piping were removed in the late 1990s as part of the project to extend the rail spur.

As constructed, PH Building used central steam for heating, however the steam lines to PH building were disconnected in 2001. Except for a window air conditioning unit in the west room of the building, the building had no cooling system. Electric service was 480 volts. The building had no potable or service water. The building was not serviced by sanitary or storm drains. The building also had no fire sprinkler system. Prior to demolition, the east room of PH building was used as a storage area for utilities related supplies. The west room was not being used for any purposes.

Building 24

Building 24 was situated in the west-central portion of the site and was adjacent to and 5 feet west of PH Building. The building was constructed in 1965 as a water treatment plant. The building was a single-story, single-room structure with 840 square foot (42-feet long by 20-feet wide by 20-feet high) of floor space (Appendix A, Figure 1). Buildings PH and 24 are within the boundary of PRS 441 (Reference Figure 3 of Appendix A).

The walls of Building 24 were 12-inch concrete block, with joint reinforcing on 16-inch centers. The reinforced concrete foundations were set on 5-foot deep reinforced concrete footers. The floor slab was 8 inches thick reinforced concrete, set on a gravel fill bed. The roof was constructed of 8-inch thick cored, pre-cast concrete slabs with a built up membrane, asphalted roof.

The facility contained two large-capacity zeolite-softening bed tanks and injection equipment for chlorination and rust inhibition. Each tank contained gravel and approximately 350 cubic feet of non-hazardous zeolite resin material (Amerlite IR120 NA Resin). As part of the water treatment process, the facility injected sodium hypochlorate (chlorine disinfecting) and sodium silicate (corrosion inhibitor) into the water supply. Two high-capacity booster pumps in Building 24 were used to distribute the treated water. The Building 24 water treatment equipment was used to pump treated water into the SM-PP water tower for the SM/PP area. After shutdown of P Building (Powerhouse), Building 24 supplied treated water to the majority of the remaining site structures. Building 24 water treatment operations ceased in the August, 2005 timeframe. No structural changes had been done to the building since construction.

Building 24 used central steam for heating (disconnected in 2001) but had no cooling system. Electric service was 480 volts. Raw well water was supplied to the building for treatment (softening and chlorination). The building had domestic water supplied to a sink and the building had a floor storm drain. The building did not have a fire sprinkler system or sanitary services.

2.2 Potential Release Sites (PRSs)

As a result of the investigations and documentation accomplished to comply with the CERCLA cleanup process via the Federal Facilities Agreement (FFA)/DOE Environmental Restoration (ER) Program, DOE and the site contractor tabulated all the PRSs identified under the various regulatory programs in effect at the site. Of these PRSs, seven were at or near Buildings PH and 24, as identified in Table 1. The PRS locations were shown in Figure 2 and recommendation sheets are provided in Appendix C.

Table 1: PRSs in Proximity to Buildings PH and 24

PRS	CERCLA or Bldg. Related	Binning Status	Comments
59	CERCLA	NFA	Contaminated Soil Box Storage Area
176	CERCLA	NFA	Area 14, Radioactive Waste Line break
177	CERCLA	NFA	Building 41Alpha Wastewater Tank (Tank 208)
178	CERCLA	NFA	Building 41Alpha Wastewater Tank (Tank 209)
300	CERCLA	NFA	Area 19, Underground Waste Transfer Line
358	CERCLA	NFA	Elevated Soil Gas Location
441	CERCLA	RA	Soil Staging and Expansion Area.

3.0 ACTIONS TAKEN

The Buildings PH and 24 BDP was submitted for simultaneous Core Team and public review on 24 February 2005, and the 30-day public review period concluded on 27 March 2005.

A Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM) study of Buildings PH and 24 was performed prior to demolition. The core team approved study report (provided in Appendix G of the Final BDP) provides details of the survey design and results and indicates that Buildings PH and 24 met applicable surface release criteria.

Just prior to demolition of the Buildings PH and 24 structures, confirmatory radiological surveys were performed on the interior and exterior surfaces of the two buildings. No elevated levels were detected during the confirmatory radiological surveys of the buildings.

The demolition of Buildings PH and 24 was performed in two stages due to the proximity and timing of the Soil Staging Area (Rail Spur) project work activities. The demolition of the Buildings PH and 24 above-grade superstructure (leaving slabs and below-grade structures), obsolete utility structures, and pipe stanchions commenced on 14 October 2005 and was terminated on 25 October 2005. The demolition of the slabs and foundation walls/footers for both buildings resumed on 24 January 2006 and continued until 31 January 2006. Following demolition of the slabs and foundations/footers, Radiological Control performed surveys of the exposed soil contact surfaces of the concrete debris. No elevated levels were detected during radiological screenings of concrete surfaces in contact with soils for the Buildings PH and 24 slabs and of the Building PH foundation/footer. However, elevated levels of radiological contamination were found on the exposed soil contact surfaces of the Building 24 foundation/footer concrete debris. The footprint of Building 24 was cordoned-off as a Soil Contamination Area (SCA) and the below-grade debris was removed as Low Level Waste. Following demolition of the structures, a walkover survey of the exposed soil surfaces in the footprint of Building 24 was performed and subsequent soil samples were taken to further define contaminants of concern and contaminant levels in the area of concern. No walkover survey was performed over the Building PH footprint as no elevated radiological levels were detected during debris pile surveys. Further evaluation/remediation (as necessary), soil sampling, verification, and final site restoration of this area will be performed as part of the PRS 441 Removal Action activities. The results of radiological surveys, performed prior to and after the Buildings PH and 24 demolition activities, are provided in Appendix B.

The abandoned below-grade oil fuel line piping and two above ground valves, located to the south of Building PH, were not removed as part of the Building PH demolition. The piping and valves were left in-place due to their proximity to the rail spur and the Ric-Wil piping insulation contains possible Asbestos Containing Material.

Radiologically contaminated debris was loaded into haulers and taken to the Rail Spur/Soil Staging area where it was size reduced and packaged to meet the Envirocare waste acceptance criteria. Uncontaminated construction and concrete building debris was size-reduced, loaded into haulers, and taken to a local sanitary landfill. Recyclable metal debris was loaded into haulers and taken to a local metal recycler.

This Closeout Report documents the completion of the demolition and removal of Buildings PH and 24. All preparation and demolition activities for Buildings PH and 24, except for removal of the fuel oil line piping/valves and final site restoration, were performed in accordance with the detailed Work Plan. The removal of the fuel oil line piping/valves and final site restoration for the Building PH and 24 areas will take place prior to parcel transfer and will be documented in the PRS 441 Removal Action On Scene Coordinator Report. Photographs taken before, during, and after demolition are provided in Appendix A.

Table 2: Materials Disposition

Buildings PH and 24 Material	Quantity	Disposal Method	Destination
Asbestos Abatement (Debris)	5.2 cubic yards	Landfill	Stoney Hollow, Dayton, OH
Polychlorinated biphenyl (PCB) Light Ballast	0.05 cubic yards	Treatment	Clean Harbors, Cincinnati, Ohio
Ethylene Glycol	15 liters	Recycle	Clean Harbors, Cincinnati, Ohio
Construction Debris (concrete, rebar, and utility structures)	1324 cubic yards	Landfill	Stoney Hollow, Dayton, OH
Scrap Metal	160 cubic yards	Recycle	Metal Shredders, West Carrollton, Ohio
Low Level Radioactive Waste	208 cubic yards	Rail	Envirocare, Salt Lake City, Utah

4.0 PROBLEMS ENCOUNTERED

Buildings PH and 24 were successfully demolished per the Work Package. No problems were encountered during demolition activities and no soil staining or unusual fumes/odors were noted during slab/foundation excavations.

The removal of the fuel oil line piping/valves and final site restoration for the Building PH and 24 areas will take place prior to parcel transfer and will be documented in the PRS 441 Removal Action On Scene Coordinator Report.

5.0 RESOURCES COMMITTED

5.1 Personnel Organization

Table 3 lists the personnel organization for the demolition.

Table 3: Personnel Organization for the Demolition

Agency or Party Involved	Contact	Description of Participation
US EPA (SR-6J) 77 W. Jackson Chicago, IL 60604 312-886-7058	Timothy Fischer	Federal agency responsible for MCP oversight.

Table 3: Personnel Organization for the Demolition

Agency or Party Involved	Contact	Description of Participation
Ohio EPA 410 E. Fifth Street Dayton, OH 45402-2911 937-285-6468	Brian Nickel	State agency responsible for MCP oversight.
DOE/ MCP 175 Tri-County Parkway Springdale, OH 45246 513-246-0071	Geoffrey Gorsuch	DOE/ MCP Project Manager responsible for project oversight and success.
CH2M Hill Mound, Inc. 1075 Mound Road P. O. Box 750 Miamisburg, OH 45343-0750 937-673-2874	Allen Upshaw	Provided the DOE/ MCP Project Manager with technical assistance, administrative support, sampling, photo and site documentation, site safety, and report preparation. Provided the equipment necessary for the demolition and performed the building demolition.

5.2 Demolition Cost

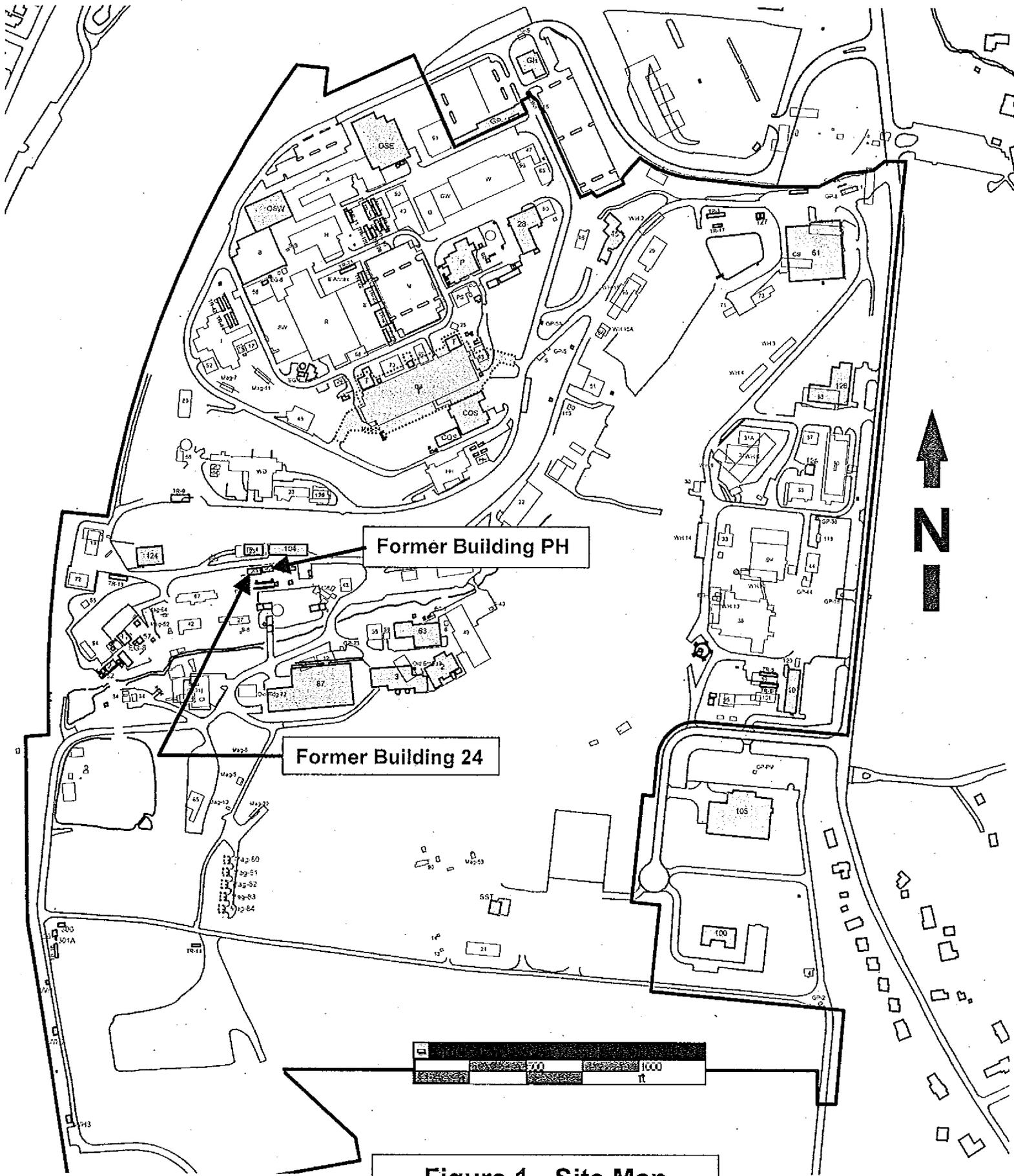
Under the new site contract, CH2M Hill Mound, Inc. has elected to cluster financial data for multiple buildings together. Cluster P includes Buildings 24, 56, 57, 112, 113, 415, 432, EG-8, P, PH, and Well Houses 1-3. As a result, cost data for individual building demolitions are not available. Cluster P is considered completed with the demolition of Buildings PH and 24 and the total cluster costs are presented in Table 4.

Table 4: Cluster P Total Costs

Activity	Cost
Work Planning	\$167K
Facility Prep	\$549K
Demolition	\$831K
Total	\$1,547K

APPENDIX A

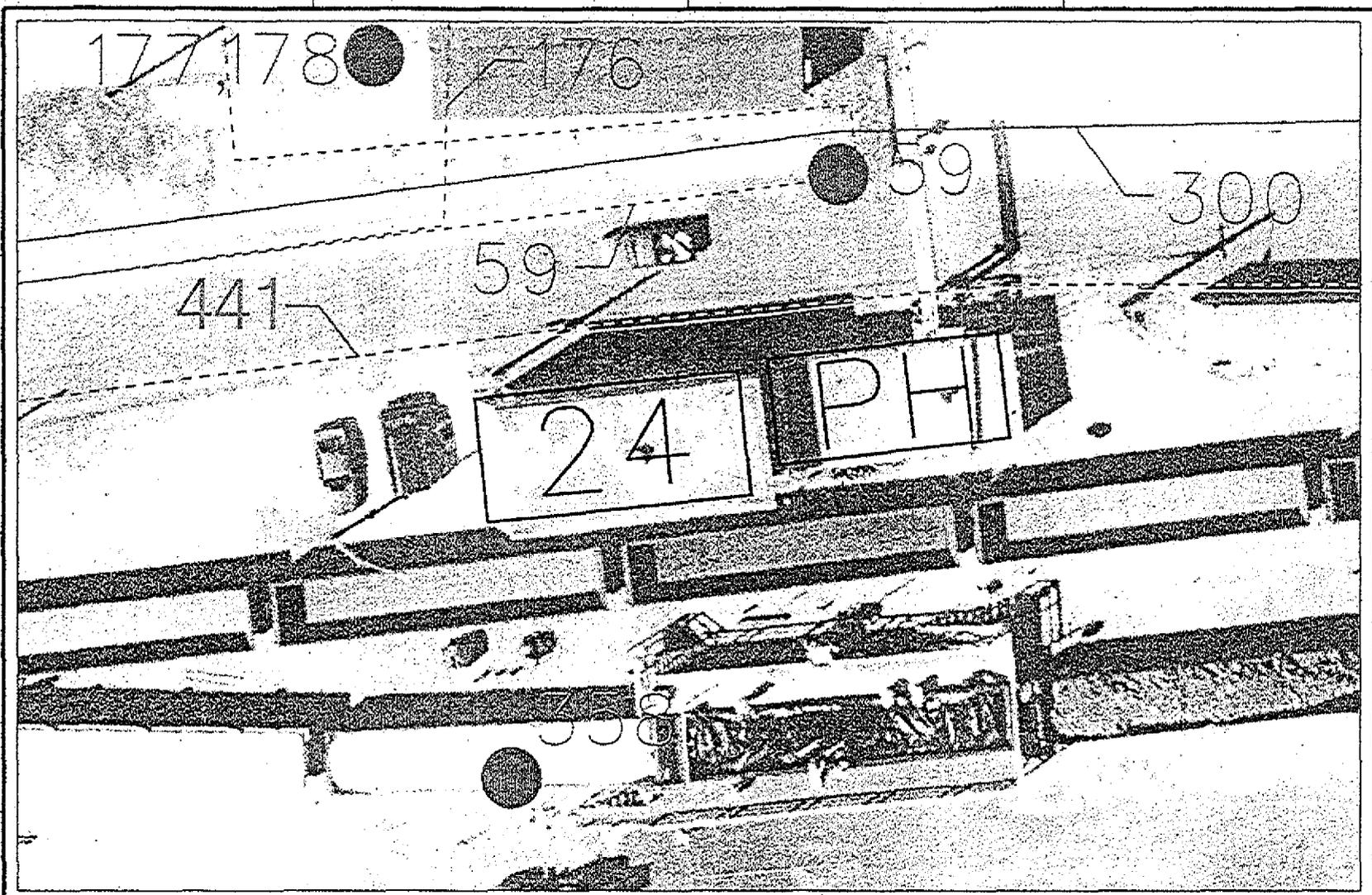
Figures



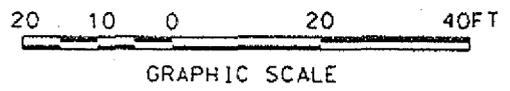
Former Building PH

Former Building 24

Figure 1 - Site Map



- PRS Point
- - - PRS Area
- ~ PRS Line



MOUND

Environmental
Restoration
Geographic
Information
System

SHEET	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
ISSUE	1	2	3	4	5	6															
PART OUTSIDE COVER																					
<p>Figure 2: Building 24 & PH and Vicinity</p>															<p>vicinity.dgn</p>						
UNCLASSIFIED															JOB NUMBER						
DATE: 11/29/2004															SCALE: AS SHOWN						
Dwg. Title: STE FROM ER-GIS															DATE: 11/10/04						
STATUS: MD-REL-05/12/03															ORIGIN: WSTATION / J						

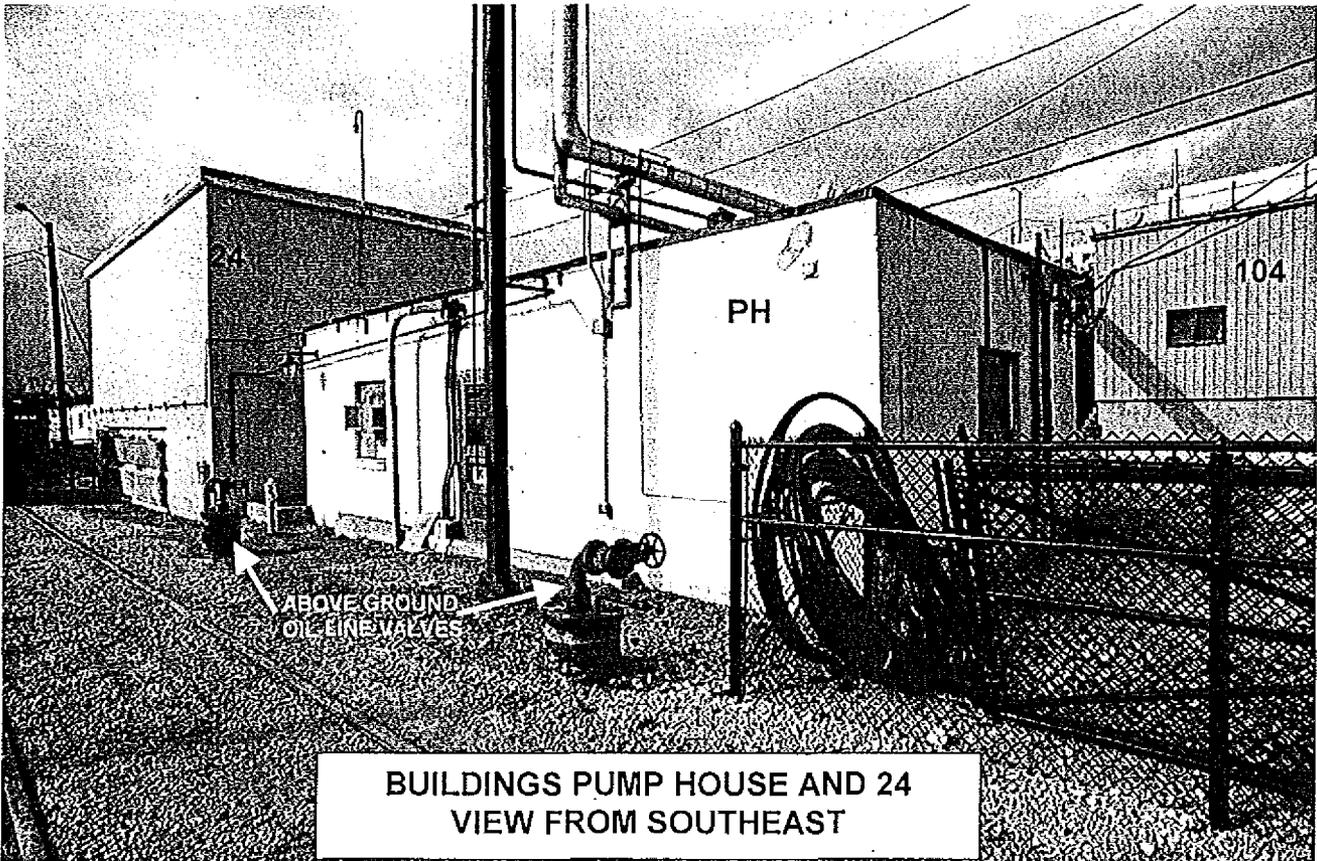
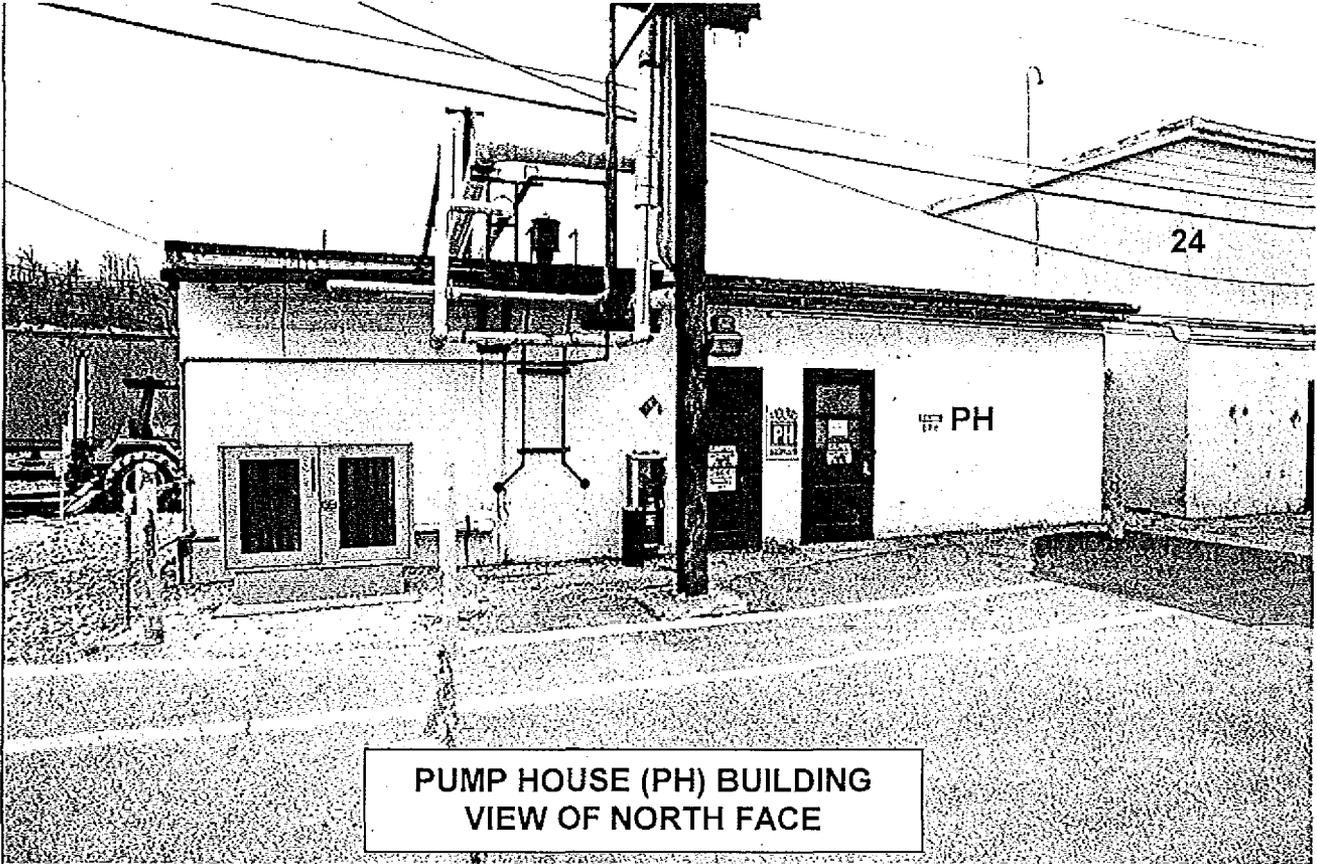
11/10/04	SSP				
DATE	REVISION	BY	CHK	ENG	APPROV

Figure 2 - Buildings PH and 24 and Vicinity

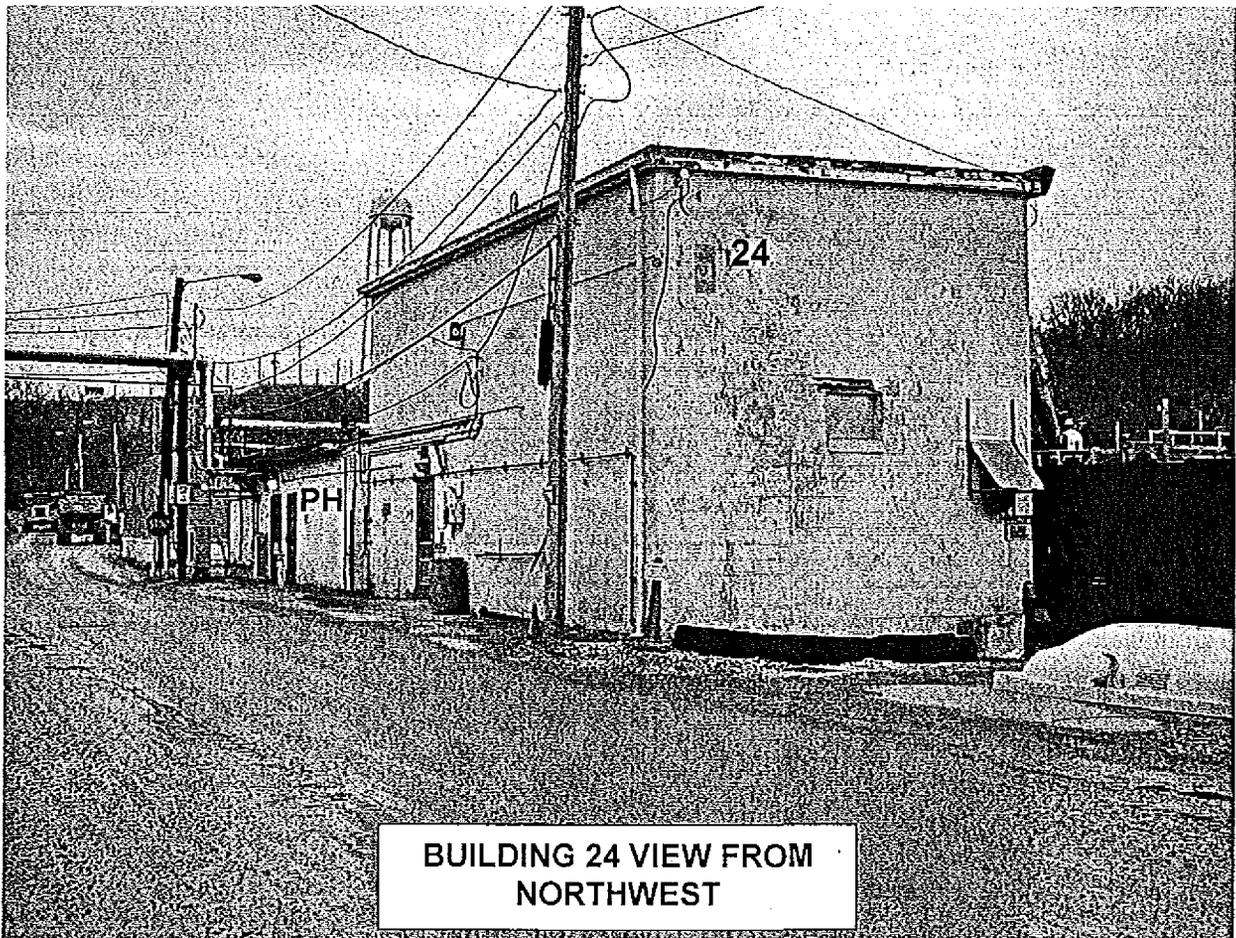


Figure 3 - Buildings PH and 24;
Showing Extent of PRS 441

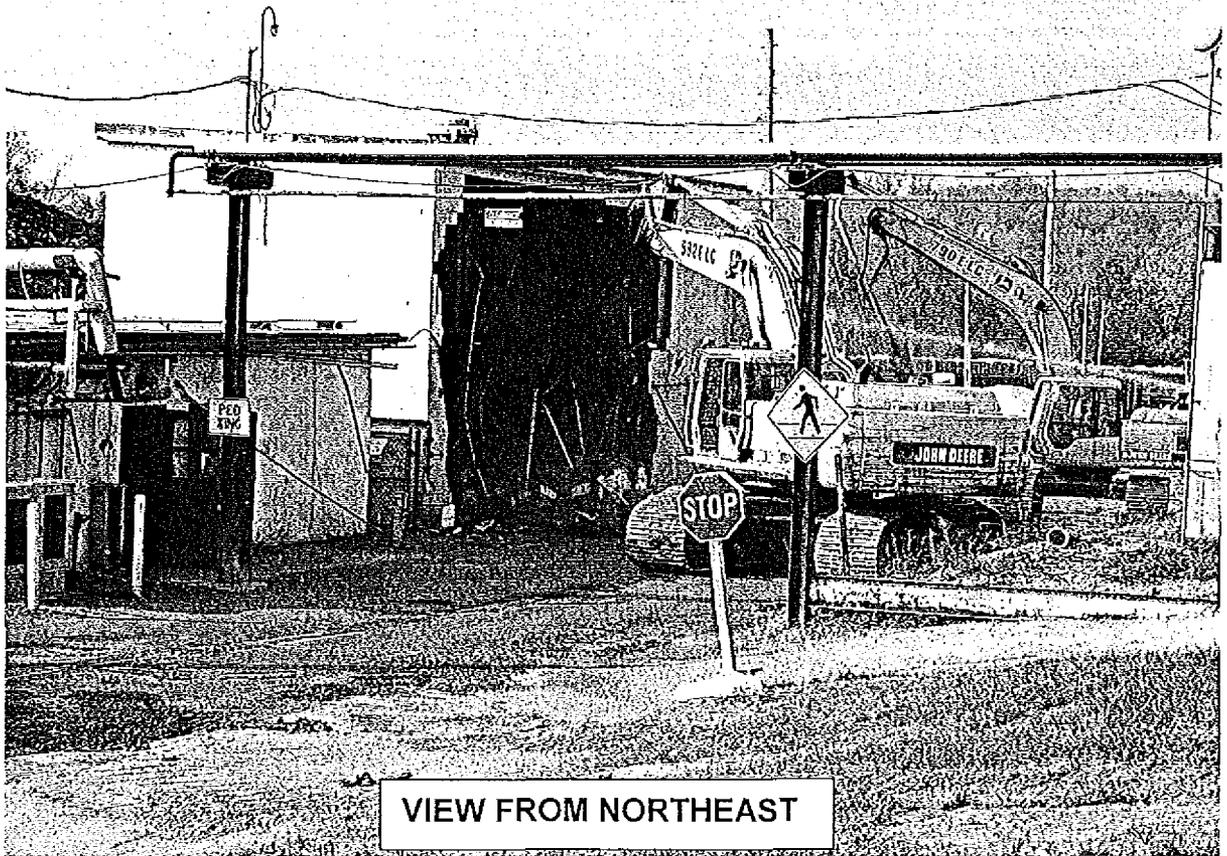
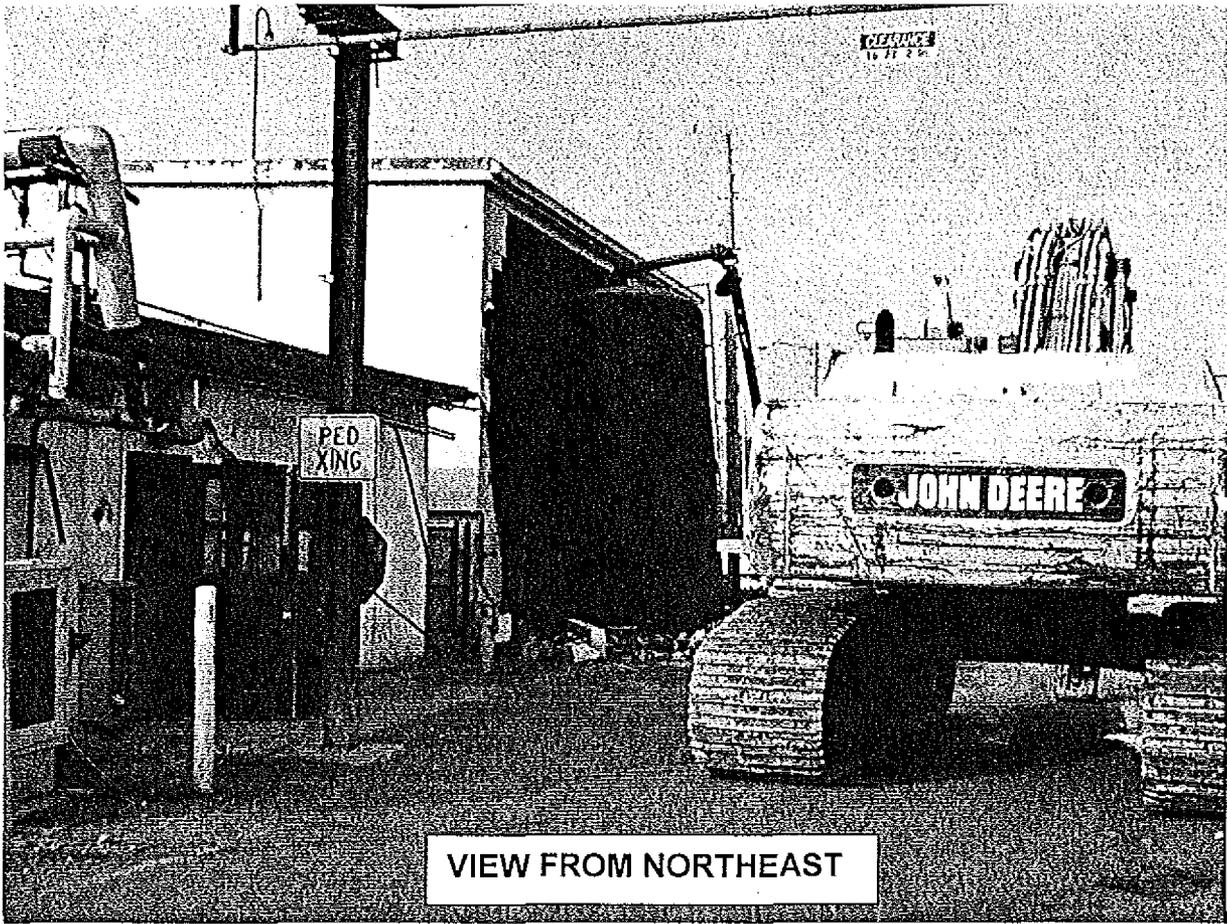
Figure 4 - Building Photos



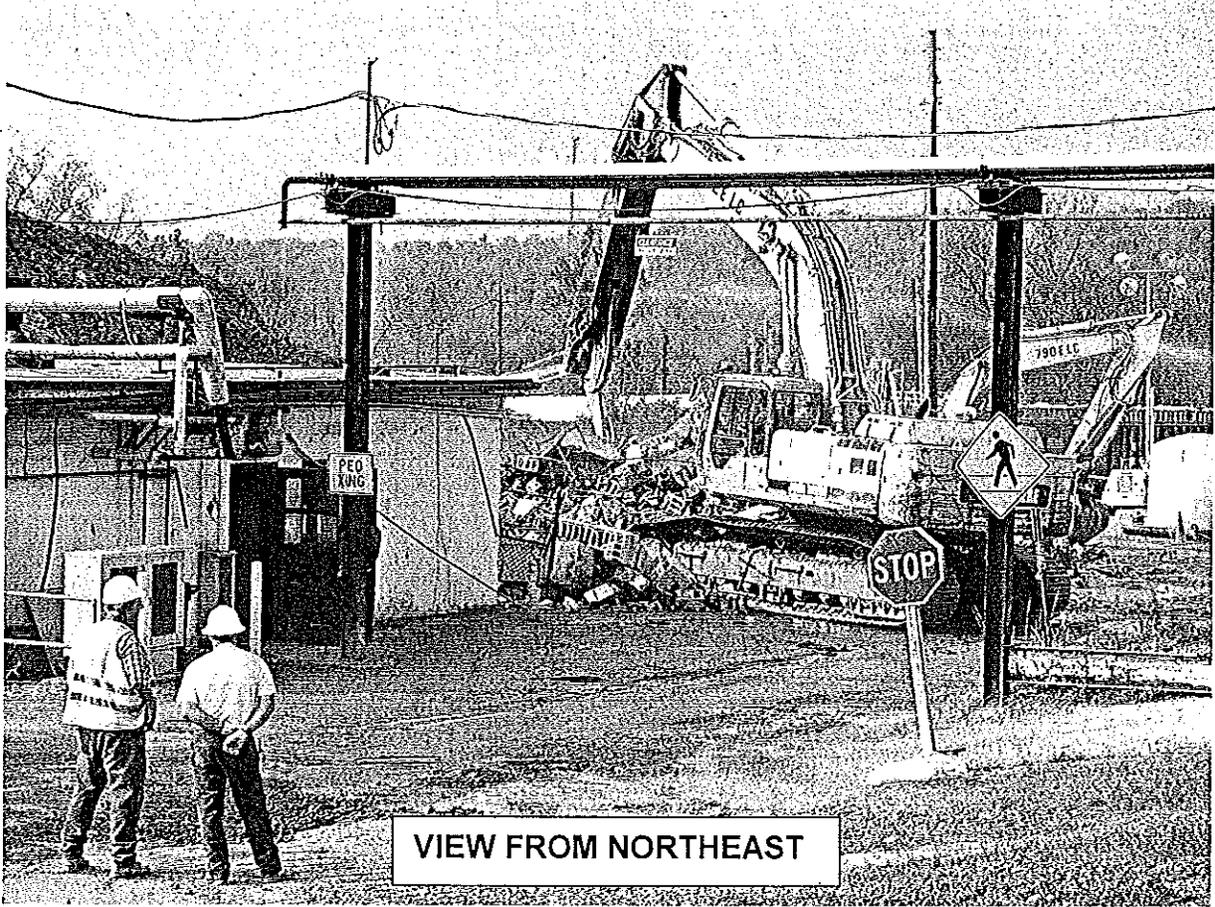
Buildings PH and 24 – Prior to Demolition



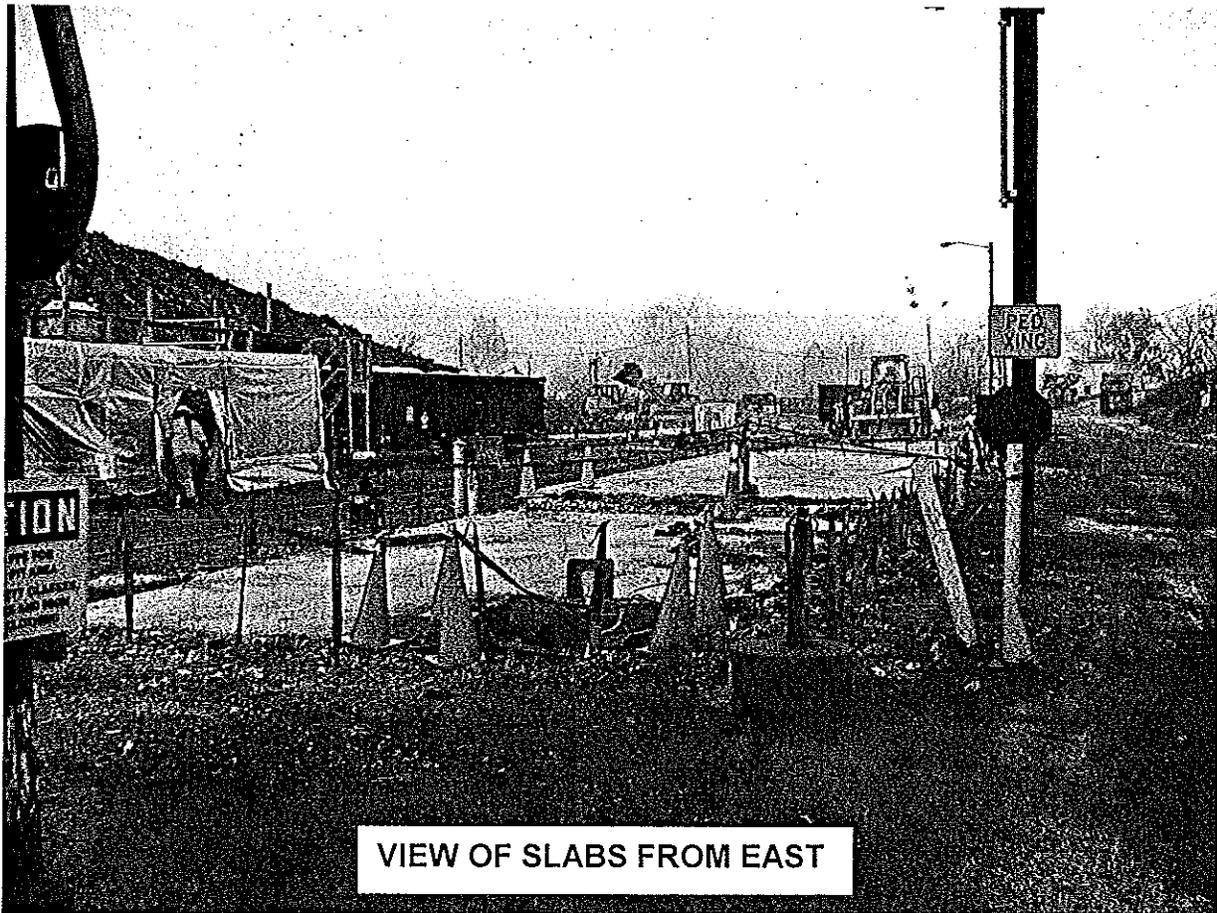
Buildings PH and 24 – Prior to Demolition



Buildings PH and 24 – During Demolition

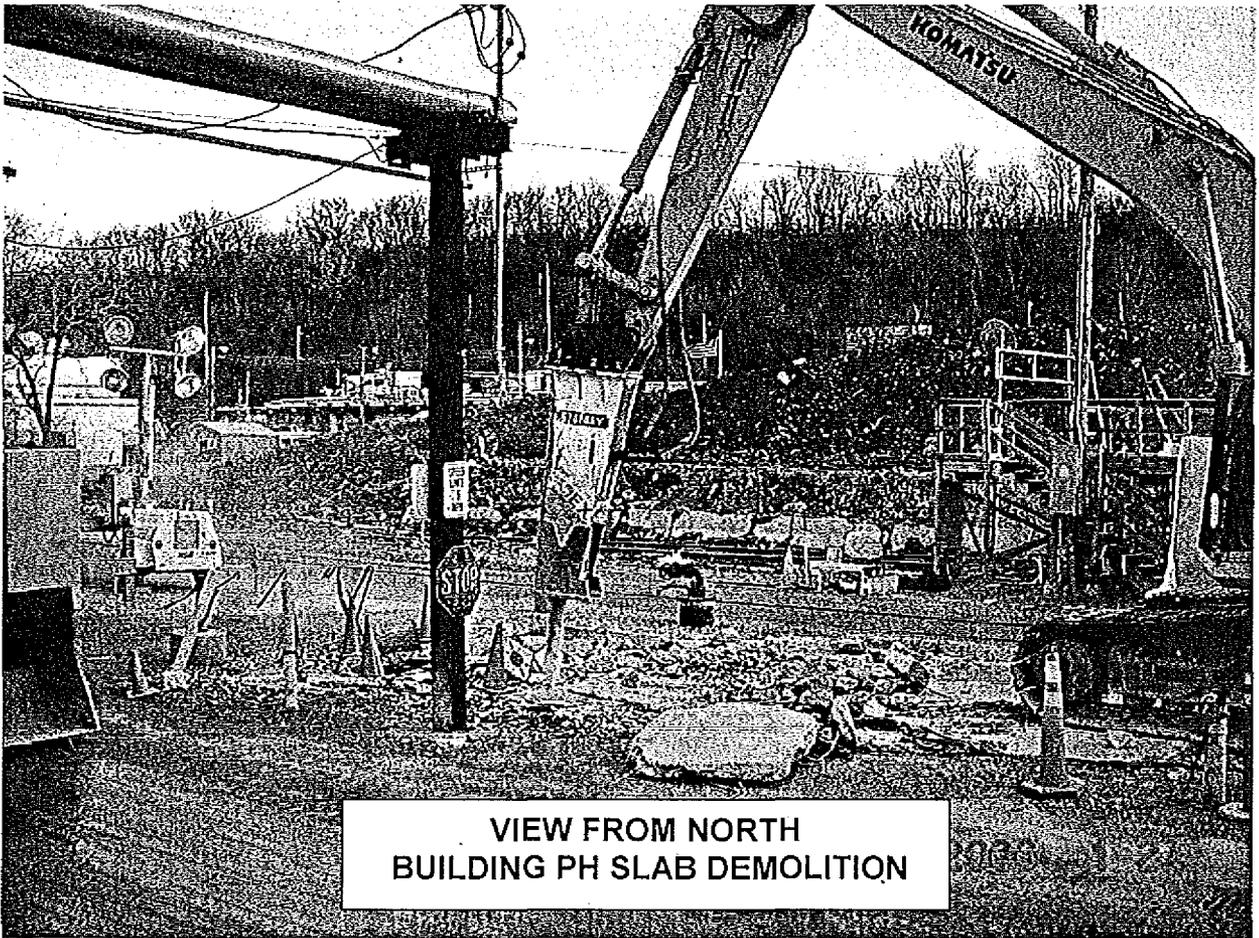


VIEW FROM NORTHEAST

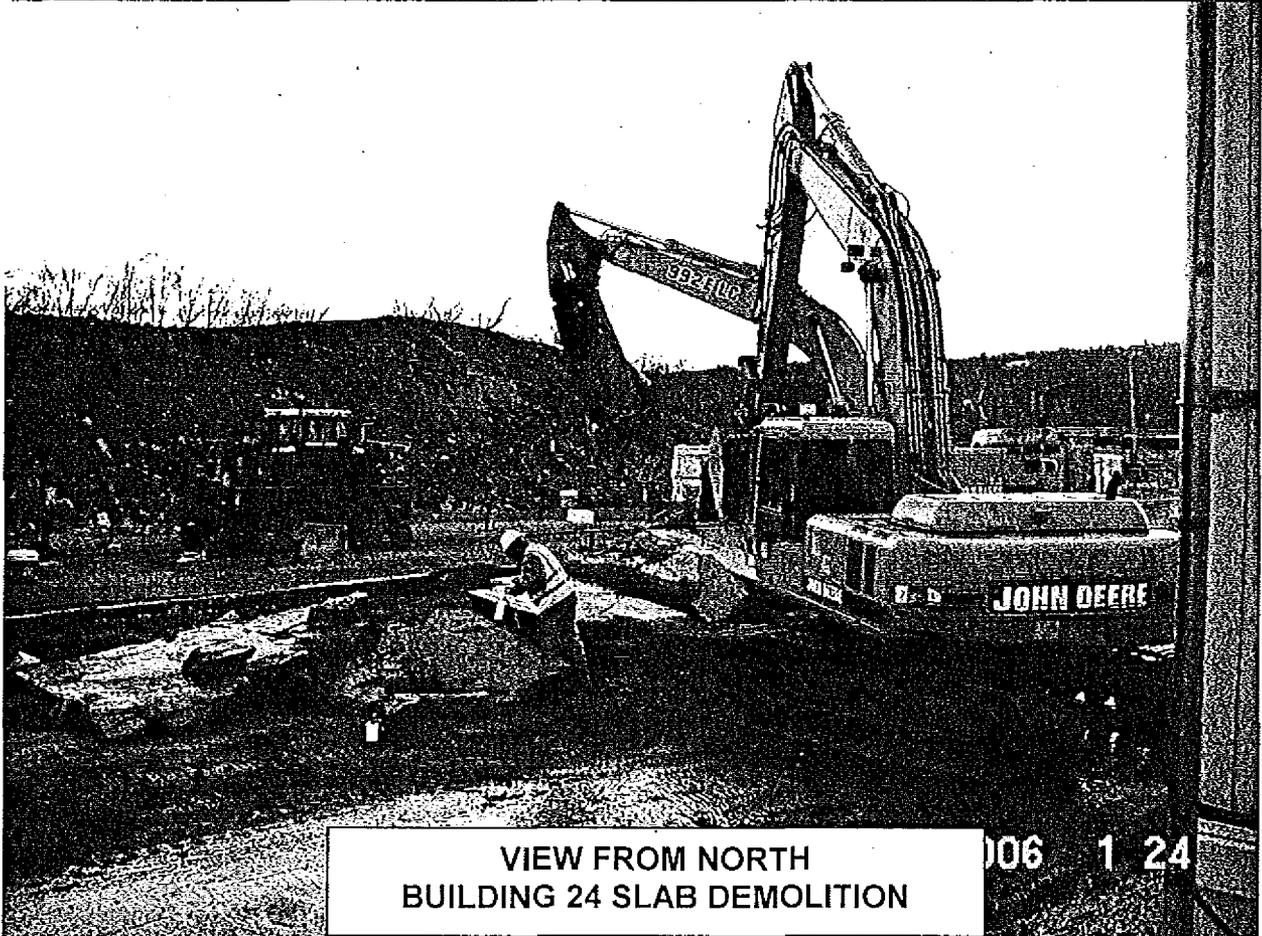


VIEW OF SLABS FROM EAST

Buildings PH and 24 – During Demolition

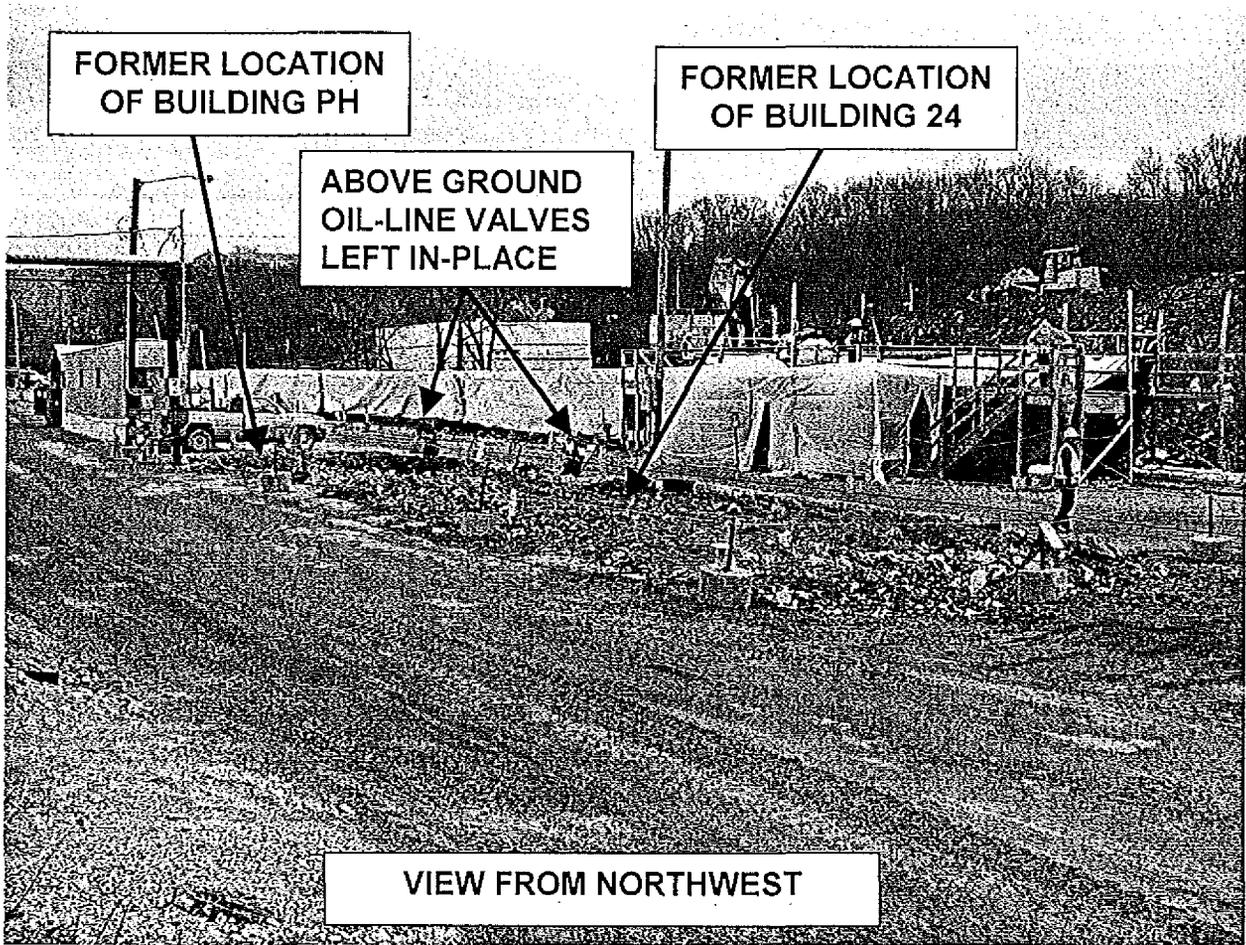


VIEW FROM NORTH
BUILDING PH SLAB DEMOLITION



VIEW FROM NORTH
BUILDING 24 SLAB DEMOLITION

Buildings PH and 24 – During Demolition



Buildings PH and 24 – After Demolition

APPENDIX B

Post-Final Status Survey Report Radiological Surveys

This appendix includes copies of the RSDSs from the confirmatory surveys of Buildings PH and 24 interior and exterior surfaces, the post-demolition surveys of the ground-contact surfaces of the slabs/foundations/footers, and walkover survey/soil sample results.

05-TF-0307 (5 Pages)

05-TF-0308 (6 Pages)

06-ER-082 (2 Pages)

06-ER-084 (2 Pages)

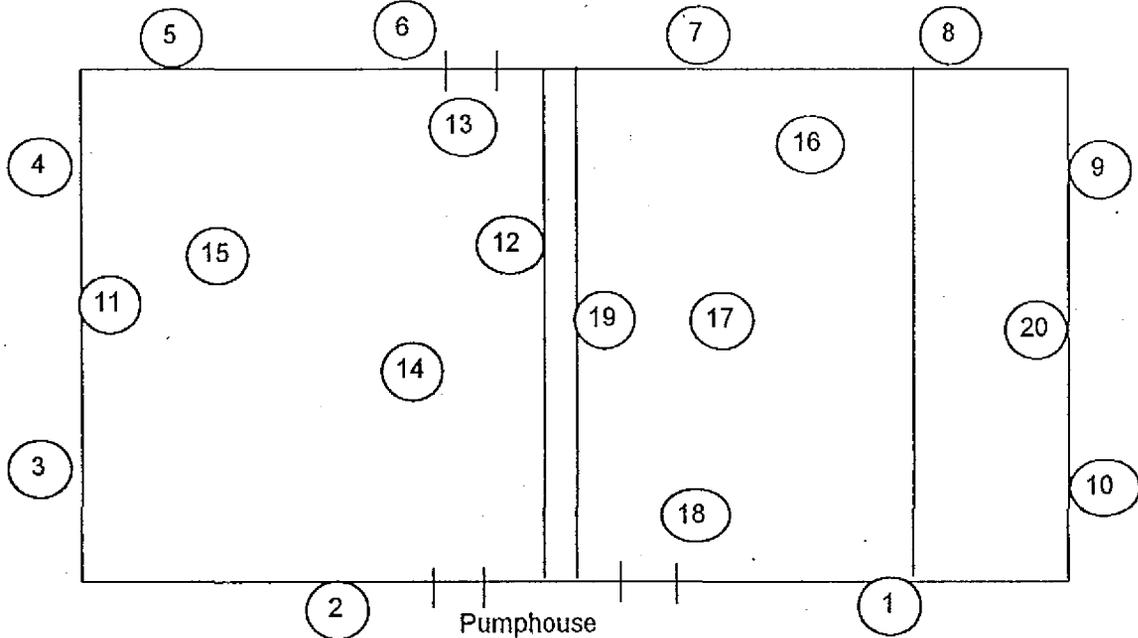
06-ER-085 (8 Pages)

RADIOLOGICAL SURVEY DATA SHEET

LOCATION: (BLDG./AREA/ROOM) Pumphouse	SURVEY NO. 05-TF-0307
PURPOSE: Verification survey prior to demo	RWP NO. N/A
	DATE: 9/27/05
	TIME: 10:00

MAP / DRAWING

COPY



Bkgd= 1 cpm alpha
 170 cpm beta
 DL= 1.4 cpm alpha
 30 cpm beta

<100 alpha **<5K beta**

LEGEND:

- # = mrem/hr (γ) whole body
- #E = mrem/hr ($\beta + \eta + \gamma$) extremity on contact
- K = factor of 1000
- = radiological boundary
- # (triangle) = mrem/hr neutron
- # (square) = air sample number
- # (circle) = swipe number
- #/alpha or #/beta (circle) = direct contamination measurement in dpm/100cm²

INSTRUMENTS USED		
Instrument	Serial Number	Cal. Due Date
Lud 2360/4389	5698/5812	5/25/06
NA		

Completed by: (Signature) <i>L. Oeffner</i>	HP# [redacted]	Date 9-28-05
Completed by: (Printed)	L. Oeffner Jr.	
Counted by: (Signature) <i>See Attached</i>	HP# [redacted]	Date
Counted by: (Printed Name)		
Reviewed/Approved by: (Signature) <i>RA Coblenz</i>	HP# [redacted]	Date 10/4/05
Reviewed/Approved by: (Print Name) <i>RA Coblenz</i>		

Smear Analysis

Unit Type: LB4100/W
 Counting Unit ID: Aqua
 Data file name: SMEAR036
 Batch Ended: 9/27/05 11:28

Crosstalk correction performed.

Recalibration Date: 11/03/05
 Serial Number: 26966-1

Batch ID: 05-TR-0307 L.OEFFNER (20) AG

Detector ID	Sample ID	Alpha Activity		
		DPM	σ	flags
A1	1	1.92	2.21	
A2	2	0.00	2.21	
A3	3	0.00	2.18	
A4	4	0.00	2.07	
B1	5	0.00	2.01	
B2	6	0.00	2.05	
B3	7	0.00	1.96	
B4	8	0.00	1.90	
C1	9	1.84	2.33	
C2	10	0.95	2.16	
C3	11	0.00	2.08	
C4	12	0.00	2.06	
D1	13	0.00	2.19	
D2	14	0.00	2.27	
D3	15	0.00	1.95	
D4	16	0.00	2.16	
A1	17	0.00	2.16	
A2	18	0.00	2.26	
A3	19	0.00	2.16	
A4	20	0.00	2.08	

NO

Beta Activity		
DPM	σ	flags
2.05	2.56	
0.54	1.81	
0.48	1.76	
2.38	2.49	
3.20	2.77	
0.00	1.72	
1.32	2.50	
0.43	2.00	
0.00	1.46	
0.00	1.96	
0.00	1.39	
0.00	1.85	
0.00	1.53	
2.50	2.52	
0.00	2.04	
0.00	1.98	
0.00	1.33	
4.30	2.83	
0.00	1.27	
3.60	2.77	

NO

B3 of 23

05-TF-0307

4 of 5

28 Sep 2005 08:10

ALPHA/BETA - 1.09

Page #1 of 9/28/05

Protocol #: 2

PW H3 #410462

User : 2138

Time: 2.00

Data Mode: DPM

Nuclide: SMGLS02

Quench Set: SMGLS02

Background Subtract: 1st Vial

	LL	UL	LCR	25%	BKG
Region A:	0.5 - 18.6		0	0.0	8.26
Region B:	2.0 - 18.6		0	0.0	7.46
Region C:	40.0 - 2000		0	0.0	12.40

Quench Indicator: tSIE/AEC

Ext Std Terminator: Count

05-TF-0307 L.OEFFNER (20) AG

Luminescence Correction On

Coincidence Time(ns): 18

Delay Before Burst(ns): Normal

Protocol Data Filename: C:\DATA\PROT2.DAT

Count Data Filename: C:\DATA\SDATA2.DAT

Spectrum Data Drive & Path: C:\DATA

S#	TIME	CPMA	CPMB	LUM	FLAG	tSIE	DPM1	2Sigma	CPMC
-1	10.00	8.26	7.46	1	B	855.17		0.00	12.40
0	2.00	527.14	494.54	0		577.07	1003.82	82.75	0.00
1	2.00	0.97	1.67	0		503.41	1.98	9.49	0.00
2	2.00	0.00	0.00	0		340.37	0.00	0.00	0.00
3	2.00	0.00	0.00	0		363.39	0.00	0.00	0.00
4	2.00	0.00	0.00	0		430.40	0.00	0.00	0.00
5	2.00	0.00	0.00	0		432.08	0.00	0.00	0.00
6	2.00	0.67	1.35	0		514.99	1.34	9.24	0.00
7	2.00	0.00	0.69	0		439.17	0.00	0.00	0.00
8	2.00	8.74	9.54	0		309.34	25.30	17.72	0.00
9	2.00	3.74	3.27	0		523.32	7.47	10.43	0.00
10	2.00	1.34	1.61	0		466.00	2.87	10.14	0.00
11	2.00	4.69	4.88	0		238.89	16.99	19.60	0.00
12	2.00	0.00	0.00	0		381.43	0.00	0.00	0.00
13	2.00	0.00	0.00	0		472.26	0.00	0.00	0.00
14	2.00	0.00	0.00	0		409.86	0.00	0.00	2.80
15	2.00	0.00	0.00	0		464.80	0.00	0.00	0.00
16	2.00	1.66	1.90	0		478.15	3.48	10.12	0.00
17	2.00	16.74	17.13	2		400.23	39.35	17.29	0.00
18	2.00	1403.82	1296.54	0		455.92	3043.33	200.74	0.32
19	2.00	0.00	0.71	0		410.85	0.00	0.00	0.00
20	2.00	0.00	0.00	0		327.23	0.00	0.00	0.00

MO

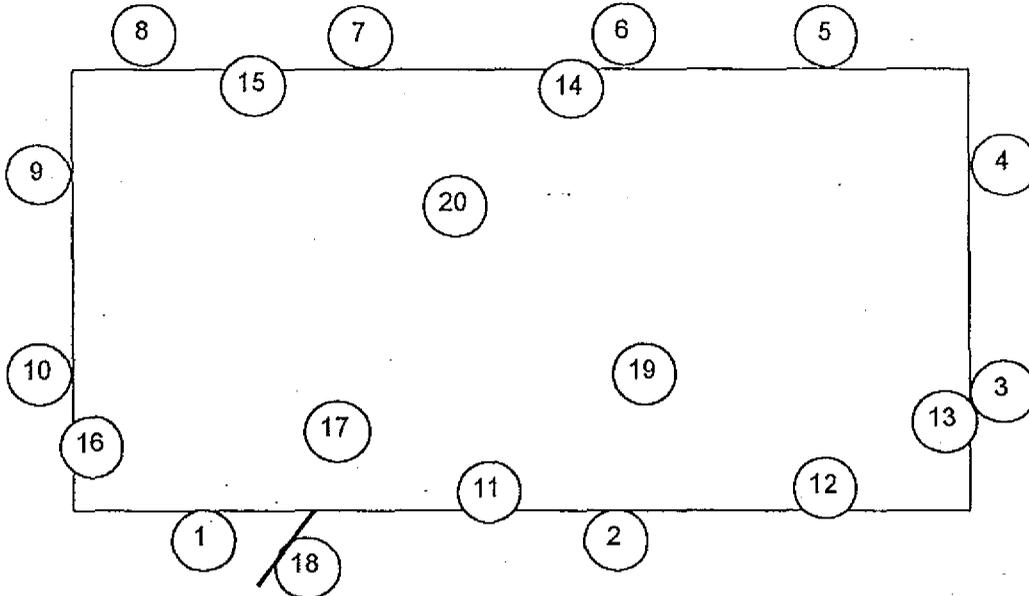
Handwritten signature

RADIOLOGICAL SURVEY DATA SHEET

LOCATION: (BLDG/AREA/ROOM) Bldg. 24	SURVEY NO. 05-TF-0308
PURPOSE: Verification Survey Prior to Demolition	RWP NO. N/A
	DATE: 9/27/05
	TIME: 10:00

MAP / DRAWING

COPY



Smears #1 - 10 outside wall
 Smears #11 - 16 inside wall
 Smears #17, 19 & 20 on floor
 Smear #18 on inside of door

Bkgd. 2.6 cpm alpha
 158 cpm beta
 D.L. 2.2 cpm alpha
 20 cpm beta

Scan and pause survey conducted at each smear location and other various locations. See attached for integrated results.

LEGEND: # = mrem/hr (γ) whole body
 #E = mrem/hr ($\beta+\gamma$) extremity on contact
 K = factor of 1000
 - - - - - = radiological boundary

- mrem/hr neutron # - swipe number
 # - air sample number # α or β - direct contamination measurement in dpm/100cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
2360-89	5704/5714	10/21/05
 	A	
 	N	
 	 	

Completed by: (Signature) <i>Jamie M. Collins</i>	HP#	Date: <i>9/28/05</i>
completed by: Jamie M. Collins		
Counted by: (Signature) <i>see attached</i>	HP#	Date:
Counted by: (Printed Name)		
Reviewed/Approved by: (Signature) <i>RNCoblenz</i>	HP#	Date: <i>10/4/05</i>
Reviewed/Approved by: (Print Name) <i>RNCoblenz</i>		

RADIOLOGICAL SURVEY DATA SHEET (cont.)

Removable Contamination				
Swipes (dpm/100cm)				
Sample #	β/γ	Alpha	Tritium	Comments
1	SEE ATTACHED RESULTS			north wall
2				↓
3				west wall
4				↓
5				south wall
6				↓
7				
8				↓
9				east wall
10				↓
11				I/S wall
12				↓
13				
14				
15				↓
16				floor
17				door
18				floor
19				↓
20	↓	↓	↓	↓

Removable Contamination				
Swipes (dpm/100cm ²)				
Sample #	β/γ	Alpha	Tritium	Comments

Comments: I/S = Inside. All smears field checked with 2360 prior to submitting to count lab.

NOTES:

1. See MD-80036 10002 for calculations of WEB, 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.

Smear Analysis

Unit Type: LB4100/W

Counting Unit ID: Aqua

Data file name: SMEAR037

Batch Ended: 9/27/05 11:39

Crosstalk correction performed.

Recalibration Date: 11/03/05

Serial Number: 26966-1

Batch ID: 05-TF-0308 J.COOLINS (20) AG

Detector ID	Sample ID	Alpha Activity			Beta Activity		
		DPM	σ	flags	DPM	σ	flags
A1	1	0.00	2.19		0.96	2.23	
A2	2	0.00	2.20		0.00	1.30	
A3	3	0.00	2.24		4.14	2.76	
A4	4	1.40	2.03		0.00	1.29	
B1	5	0.00	1.90		0.00	1.20	
B2	6	0.00	2.07		0.00	2.08	
B3	7	0.00	1.93		0.00	1.80	
B4	8	1.48	1.90		0.27	2.00	
C1	9	4.13	3.27		0.00	1.46	
C2	10	0.00	2.16		0.00	1.96	
C3	11	0.00	2.10		0.00	1.90	
C4	12	0.00	2.06		0.00	1.85	
D1	13	0.95	2.21		0.14	2.52	
D2	14	0.00	2.23		1.26	2.19	
D3	15	0.00	1.96		1.37	2.48	
D4	16	0.38	2.16		0.52	2.39	
A1	17	1.92	2.18		0.00	1.83	
A2	18	0.00	2.21		0.54	1.81	
A3	19	0.00	2.16		0.00	1.27	
A4	20	0.00	2.07		2.38	2.49	

jc

jc

BB of 23

479

27 Sep 2005 15:10 ALPHA/BETA - 1.09
Protocol #: 4 PW H3 #410462

SC
9/27/05 ~~Page #1~~
User : 2138

Time: 2.00
Data Mode: DPM Nuclide: SMGLS02 Quench Set: SMGLS02
Background Subtract: 1st Vial

	LL	UL	LCR	2S%	BKG
Region A:	0.5 - 18.6		0	0.0	7.59
Region B:	2.0 - 18.6		0	0.0	7.25
Region C:	40.0 - 2000		0	0.0	9.30

Quench Indicator: tSIE/AEC
~~Ext Std Terminator: Count~~
05-TF-0308 J. COLLINS (20) AG
Luminescence Correction On
Coincidence Time(ns): 18
Delay Before Burst(ns): Normal
Protocol Data Filename: C:\DATA\PROT4.DAT
Count Data Filename: C:\DATA\SDATA4.DAT
Spectrum Data Drive & Path: C:\DATA

S#	TIME	CPMA	CPMB	LUM FLAG	tSIE	DPM1	2Sigma	CPMC
WARNING: USER HAS MODIFIED COUNT CONDITIONS								
-1	10.00	7.59	7.25	1	B 665.89		0.00	9.30
0	2.00	490.00	453.83	0	603.19	912.90	76.78	1.70
1	2.00	0.00	0.00	0	655.89	0.00	0.00	0.00
2	2.00	0.00	0.00	0	650.58	0.00	0.00	0.70
3	2.00	0.00	0.00	0	644.63	0.00	0.00	0.70
4	2.00	0.33	0.38	0	603.92	0.61	8.09	0.20
5	2.00	0.00	0.00	0	563.76	0.00	0.00	0.00
6	2.00	1.41	1.42	0	631.89	2.57	8.35	0.00
7	2.00	0.00	0.00	0	602.95	0.00	0.00	0.00
8	2.00	0.41	0.44	0	618.03	0.76	8.03	0.70
9	2.00	0.58	0.61	0	618.83	1.07	8.09	0.00
10	2.00	0.00	0.00	0	628.16	0.00	0.00	0.00
11	2.00	0.00	0.00	0	592.39	0.00	0.00	4.20
12	2.00	0.00	0.00	0	636.65	0.00	0.00	1.70
13	2.00	0.00	0.00	0	670.76	0.00	0.00	0.00
14	2.00	0.00	0.25	0	655.38	0.00	0.00	0.00
15	2.00	0.00	0.00	0	654.50	0.00	0.00	0.00
16	2.00	2.41	2.25	0	623.77	4.42	8.80	0.20
17	2.00	0.00	0.00	0	633.36	0.00	0.00	0.00
18	2.00	1.91	1.94	0	618.36	3.52	8.64	0.00
19	2.00	0.00	0.00	0	643.31	0.00	0.00	0.00
20	2.00	0.00	0.00	0	562.26	0.00	0.00	1.58

J.C.

TAS

RSDS#: 05-TF-0308

RCT: JMC

RCT: N/A

43-89 ALPHA BKG:	2.6	Factor	8	PROBE AREA:	100 cm ²	Surface Eff:	1	ALPHA
43-89 BETA BKG:	158	Factor	4	PROBE AREA:	100 cm ²	Surface Eff:	1	BETA

LOCATION	2360#	RCT ID	PROBE	RAD TYPE	ITEM	DATE	TIME	CNTS	CT TIME (sec)	dpm/100cm ²
North wall	5704		5714	ALPHA	1	9/27/05	10:00	16	120	43
North wall	5704		5714	ALPHA	2	9/27/05	10:00	10	120	19
West wall	5704		5714	ALPHA	3	9/27/05	10:00	21	120	63
West wall	5704		5714	ALPHA	4	9/27/05	10:00	24	120	75
South wall	5704		5714	ALPHA	5	9/27/05	10:00	9	120	15
South wall	5704		5714	ALPHA	6	9/27/05	10:00	18	120	51
South wall	5704		5714	ALPHA	7	9/27/05	10:00	14	120	35
South wall	5704		5714	ALPHA	8	9/27/05	10:00	20	120	59
East wall	5704		5714	ALPHA	9	9/27/05	10:00	11	120	23
East wall	5704		5714	ALPHA	10	9/27/05	10:00	9	120	15
I/S wall	5704		5714	ALPHA	11	9/27/05	10:00	5	120	0
I/S wall	5704		5714	ALPHA	12	9/27/05	10:00	5	120	0
I/S wall	5704		5714	ALPHA	13	9/27/05	10:00	10	120	19
I/S wall	5704		5714	ALPHA	14	9/27/05	10:00	9	120	15
I/S wall	5704		5714	ALPHA	15	9/27/05	10:00	9	120	15
I/S wall	5704		5714	ALPHA	16	9/27/05	10:00	7	120	7
floor	5704		5714	ALPHA	17	9/27/05	10:00	7	120	7
dor	5704		5714	ALPHA	18	9/27/05	10:00	6	120	3
floor	5704		5714	ALPHA	19	9/27/05	10:00	9	120	15
floor	5704		5714	ALPHA	20	9/27/05	10:00	8	120	11
North wall	5704		5714	BETA	1	9/27/05	10:00	588	120	544
North wall	5704		5714	BETA	2	9/27/05	10:00	403	120	174
West wall	5704		5714	BETA	3	9/27/05	10:00	545	120	458
West wall	5704		5714	BETA	4	9/27/05	10:00	412	120	192
South wall	5704		5714	BETA	5	9/27/05	10:00	418	120	204
South wall	5704		5714	BETA	6	9/27/05	10:00	663	120	694
South wall	5704		5714	BETA	7	9/27/05	10:00	449	120	266
South wall	5704		5714	BETA	8	9/27/05	10:00	648	120	664
East wall	5704		5714	BETA	9	9/27/05	10:00	640	120	648
East wall	5704		5714	BETA	10	9/27/05	10:00	577	120	522
I/S wall	5704		5714	BETA	11	9/27/05	10:00	593	120	554

05-TF-0308

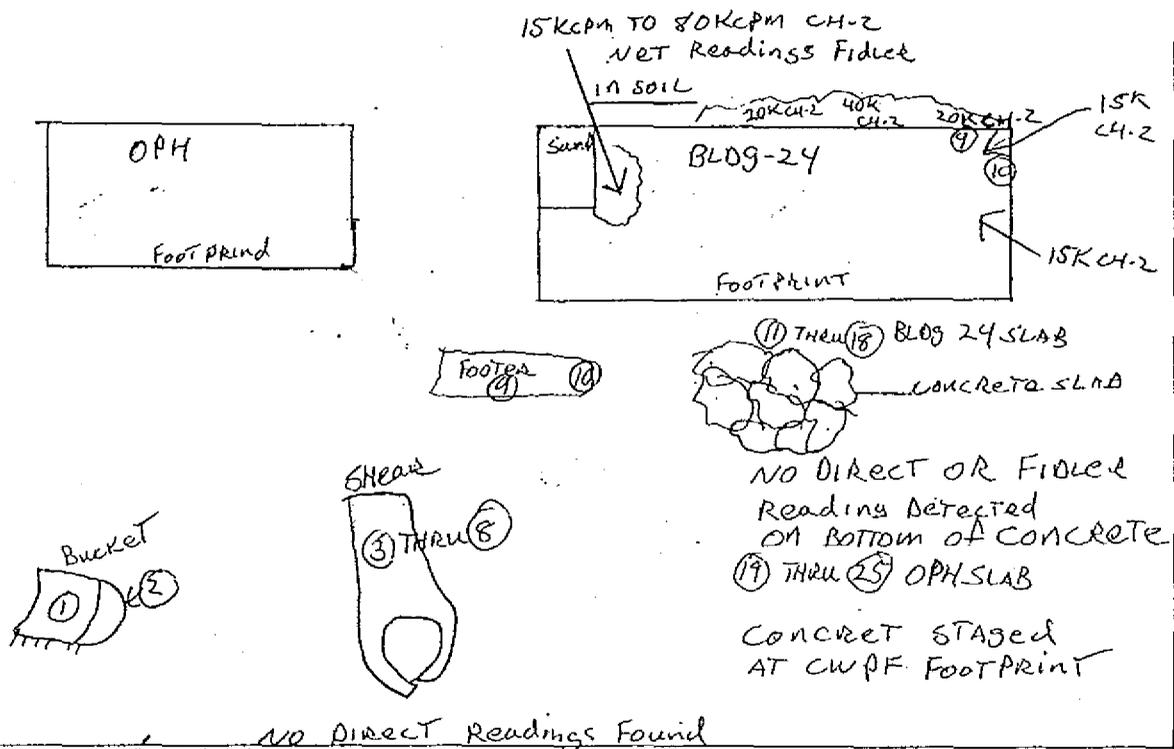
LOCATION	2360#	RCT ID	PROBE	RAD TYPE	ITEM	DATE	TIME	CNTS	CT TIME (sec)	dpm/100cm2
I/S wall	5704		5714	BETA	12	9/27/05	10:00	639	120	646
I/S wall	5704		5714	BETA	13	9/27/05	10:00	629	120	626
I/S wall	5704		5714	BETA	14	9/27/05	10:00	650	120	668
I/S wall	5704		5714	BETA	15	9/27/05	10:00	360	120	88
I/S wall	5704		5714	BETA	16	9/27/05	10:00	641	120	650
floor	5704		5714	BETA	17	9/27/05	10:00	450	120	268
dor	5704		5714	BETA	18	9/27/05	10:00	318	120	4
floor	5704		5714	BETA	19	9/27/05	10:00	561	120	490
floor	5704		5714	BETA	20	9/27/05	10:00	448	120	264

RADIOLOGICAL SURVEY DATA SHEET

LOCATION: RAIL SPUR 24 & OPH BLDG.	06-ER-082
Removal of SLAB & FOOTERS, Equipment Release	N/A
	1-24-06
	1-25-06 2:17:30

MAP / DRAWING

COPY



LEGEND:

- # = mrem/hr (γ) whole body
- #E = mrem/hr ($\beta + \gamma$) extremity on contact
- K = factor of 1000
- = radiological boundary
- # (triangle) = mrem/hr neutron
- # (circle) = swipe number
- # (square) = air sample number
- #/ft (circle) or #/l - direct contamination measurement in dpm/100cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
2360	5831/5804	042006
FIDUCIAL	3716/3995	113006
3030	5899	030906
3030	5902	021706

Completed by (Signature)	HF	Date
<i>[Signature]</i>		1-28-06
Completed by (Printed Name)		
Sean P Kubers		
Counted by (Signature)	HF	Date
<i>[Signature]</i>		1-25-06
Counted by (Printed Name)		
Sean P Kubers		
Reviewed/Approved by (Signature)	HF	Date
<i>[Signature]</i>		1-30-06
Reviewed/Approved by (Printed Name)		
Michael Beck		

RADIOLOGICAL SURVEY DATA SHEET (cont.)

Removable Contamination				
Swipes (dpm/100cm ²)				
Sample #	β/γ	Alpha	Tritium	Comments
1	0	0	N/A	770 BUCKET IN
2	0	0		OUT
3	96	0		992 SHOWER
4	0	0		
5	20	0		
6	0	0		
7	0	2		
8	0	0		↓
9	0	0		WEST FLOOR
10	21	2		↓
11	135	2		WEST CONCRETE SLAB
12	0	0		
13	5	0		
14	0	0		
15	0	0		
16	24	0		
17	112	0		
18	0	0		↓
19	23	0		EAST CONCRETE SLAB
20	0	0		
21	29	2		
22	3	2		
23	128	0		
24	6	0	↓	↓
25	20	0	↓	↓
N/A				

Removable Contamination				
Swipes (dpm/100cm ²)				
Sample #	β/γ	Alpha	Tritium	Comments
N/A				

COMMENTS: N/A

NOTES:

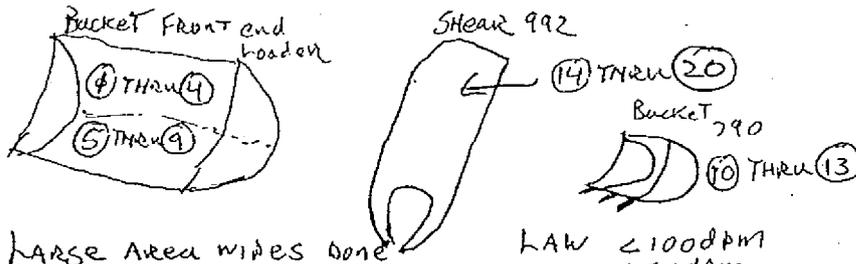
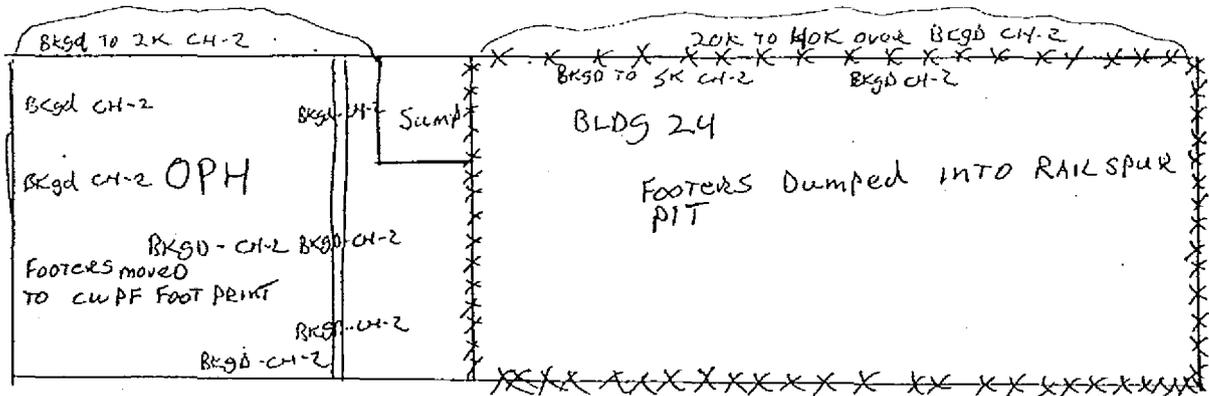
1. See MD-80036 10002 for calculations of WB, extremity and skin dose rates.
 2. To request RO Count Room analysis for β/γ, alpha or tritium, leave column blank. Mark column N/A if not needed. If count room printout of results are attached, write "see attached" in column.
 3. Annotate special sample type (e.g., soil, water), special identifiers or otherwise in Comments. If not needed, mark N/A.
- ML-9620A (4-98)

RADIOLOGICAL SURVEY DATA SHEET

LOCATION (INDICATE ROOMS)	IDENTIFY
RAIL SPUR 24 & OPH BLDG	06-ER-084
PURPOSE	1704
FOOTER & CONCRETE REMOVAL - Equipment Release	DATE
JOB COVERAGE	1-25-06
	TIME
	1730

MAP / DRAWING

COPY



Large Area wipes done ON ALL AREAS OF EQUIPMENT EXPOSED TO SCA. WIPES AND DIRECTS ALL SO DONE NO Direct Readings Found

LAW < 100 dpm
< 5K dpm

LEGEND:

- # = mrem/hr (i) whole body
- #E = mrem/hr ((1+i)+) extremity on contact
- K = factor of 1000
- = radiological boundary
- XXXXX = SOIL CONTAMINATION AREA
- # (triangle) = mrem/hr neutron
- # (circle) = swipe number
- # (square) = air sample number
- #(cc) or (l) = direct contamination measurement in dpm/100cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
2360	5831/5804	042006
Fidlex	3716/3995	113006
3030	5899	030906
3030	5902	021706

Completed by (Signature)	HP	Date:
<i>[Signature]</i>	[Redacted]	1-28-06
Completed by (Printed Name)	Sean P. Kubera	
Counted by (Signature)	HP	Date:
<i>[Signature]</i>	[Redacted]	1-25-06
Counted by (Printed Name)	Sean P. Kubera	
Reviewed/Approved by (Signature)	HP	Date:
<i>[Signature]</i>	[Redacted]	1-30-06
Reviewed/Approved by (Print Name)		

RADIOLOGICAL SURVEY DATA SHEET (cont.)

Removable Contamination				
Swipes (dpm/100cm ²)				
Sample #	βγ	Alpha	Tritium	Comments
1	32	2	N/A	BUCKET FRONT END LEADER
2	15	5		
3	128	2		
4	0	2		
5	0	5		BUCKET FRONT END LEADER
6	0	5		
7	16	7		
8	3	8		
9	131	5		
10	16	0		790 BUCKET
11	5	0		
12	0	0		
13	9	2		
14	6	0		992 SHEAR
15	147	0		
16	0	2		
17	17	5		
18	0	0		
19	0	5		
20	0	0	↓	↓
N/A				

Removable Contamination				
Swipes (dpm/100cm ²)				
Sample #	βγ	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 βγ, alpha or tritium, leave column blank. Mark column N/A if not needed. If count room printout of result 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.

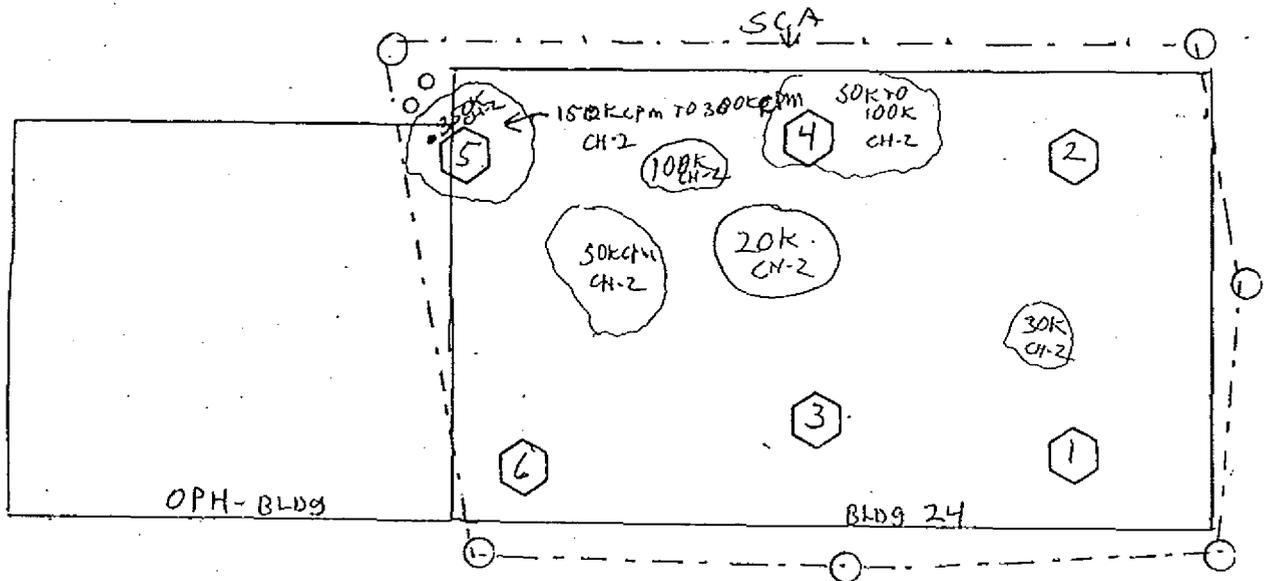
ML-9620A (4-98)

RADIOLOGICAL SURVEY DATA SHEET

LOCATION (BUILDING AREA)	RAIL SPUR BLDG 24 FOOTPRINT	INSTRUMENT	06-ER-085
PURPOSE	CHARACTERIZATION OF FOOTPRINT AS LEFT AFTER REMOVAL OF CONCRETE AND FOOTERS	DATE	1704
		TIME	012706
		TEMP	1030

MAP / DRAWING

COPY



LEGEND:

- # = mrem/hr (γ) whole body
- #E = mrem/hr (β+γ) extremity on contact
- K = factor of 1000
- = radiological boundary
- ⬡ = SOIL SAMPLE LOCATION
- ⬠ = mrem/hr neutron
- ⬠ = air sample number
- ⊙ = swipe number
- ⊙ or ⊕ = direct contamination measurement in dpm/100cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
2360	5692/5719	01-04-07
Fluor	3716/3995	113006
<i>NA</i>		

Completed by: (Signature)	HP#	Date:
<i>DR</i>		1-30-06
Completed by: (Printed Name)		
Sean P Kubers		
Counted by: (Signature)	HP#	Date:
<i>See</i>		
Counted by: (Printed Name)		
ATTACHED		
Reviewed/Approved by: (Signature)	HP#	Date:
<i>Patricia Beck</i>		1-31-06
Reviewed/Approved by: (Print Name)		
Patricia Beck		

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: GL09703
File ID: 2SC04081.s0
Priority: Yes

Description\Location

Building 24 Footprint 012706-001 As Left
Long Count

Collector: ██████
Date Received: 1/27/06
Date Collected: 1/27/06

<u>Radionuclide</u>		<u>Activity (pCi/g)</u>	<u>MDA</u>
Co-60	*	0	0.06
Cs-137	*	0	0.04
Pb-210		0.66	0.49
Ra-226		0.85	0.68
Ac-227 (D)	*	0	0.23
Th-230	*	0	6.26
Th-232 (D)		0.99	0.16
Pu-238	*	0.19	12.79
Am-241	*	0	0.06

Other Nuclides

<u>Radionuclide</u>	<u>Activity (pCi/g)</u>	<u>MDA</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

Σ DOT 0.02 nCi/g

Instrument type: High Purity Germanium

Σ DOT 2nCi/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

Comments:

Date: 1/28/06

Counted By: ██████

Analyzed By: ██████

Initials SP

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: GL09704
File ID: 2SC04082.s0
Priority: Yes

Description\Location

Bldg 24 Footprint 012706-002 As Left
Long Count

Collector: XXXXXXXXXX

Date Received: 01/27/06

Date Collected: 01/27/06

<u>Radionuclide</u>		<u>Activity (pCi/g)</u>	<u>MDA</u>
Co-60	*	0	0.05
Cs-137	*	0.03	0.04
Pb-210		0.55	0.53
Ra-226		1.08	0.65
Ac-227 (D)	*	0	0.22
Th-230	*	1.24	6.11
Th-232 (D)		0.52	0.16
Pu-238	*	0	12.71
Am-241	*	0.02	0.06

Other Nuclides

<u>Radionuclide</u>	<u>Activity (pCi/g)</u>	<u>MDA</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

Σ
DOT 0.02 nCi/g

Instrument type: High Purity Germanium

Σ DOT 2nCi/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

Comments:

Date: 01/28/06

Counted By XXXXXXXXXX

Analyzed By XXXXXXXXXX

Initials CB

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: GL09705
File ID: 2SC04083.s0
Priority: Yes

Description\Location

Bldg 24 Footprint 012706-003 As Left
Long Count

Collector: ████████

Date Received: 01/27/06
Date Collected: 01/27/06

<u>Radionuclide</u>		<u>Activity (pCi/g)</u>	<u>MDA</u>
Co-60	*	0	0.07
Cs-137	*	0.01	0.04
Pb-210	*	0.44	0.48
Ra-226		0.86	0.65
Ac-227 (D)	*	0.08	0.18
Th-230	*	1.95	5.25
Th-232 (D)		0.49	0.17
Pu-238	*	0	12.3
Am-241	*	0.02	0.05

Other Nuclides

<u>Radionuclide</u>	<u>Activity (pCi/g)</u>	<u>MDA</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

Σ
DOT 0.02 nCi/g

Instrument type: High Purity Germanium

Σ DOT 2nCi/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

Comments:

Date: 01/28/06

Counted By: ████████

Analyzed By: ████████

Initials

LB

06-ER-085

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: GL09706
File ID: 2SC04084.s0
Priority: Yes

Description\Location

Bldg 24 Footprint 012706-004 As Left
Long Count

Collector: XXXXXXXXXX
Date Received: 01/27/06
Date Collected: 01/27/06

<u>Radionuclide</u>		<u>Activity (pCi/g)</u>	<u>MDA</u>
Co-60	*	0	0.1
Cs-137	*	0.06	0.09
Pb-210	*	0.97	1.3
Ra-226		3.01	1.61
Ac-227 (D)	*	0.15	0.51
Th-230	*	6.08	16.71
Th-232 (D)		12.92	0.33
Pu-238	*	0	32.68
Am-241	*	0	0.17

Other Nuclides

<u>Radionuclide</u>	<u>Activity (pCi/g)</u>	<u>MDA</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

Σ_{DOT} 0.07 nCi/g

Σ_{DOT} 2nCi/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: 01/28/06 Counted By: XXXXXXXXXX Analyzed By: XXXXXXXXXX Initials: G/S

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06-ER-085

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: GL09707
File ID: 2SC04085.s0
Priority: Yes

Description/Location

Bldg. 24 Footprint 012706-005 As Left
Long Count

Collector: XXXXXXXXXX
Date Received: 01/27/06
Date Collected: 01/27/06

Radionuclide		Activity (pCi/g)	MDA
Co-60	*	0	0.33
Cs-137	*	0	0.37
Pb-210	*	3.18	4.97
Ra-226		19.64	7.4
Ac-227 (D)	*	0	2.43
Th-230	*	22.11	64.94
Th-232 (D)		206.64	1.29
Pu-238	*	0	123.4
Am-241	*	0	0.62

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA
U-238D	19.36	6.18
_____	_____	_____
_____	_____	_____

Σ DOT 0.44 nCi/g

Instrument type: High Purity Germanium

Σ DOT 2nCi/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

Comments: U-238D may have interference from Th-232.

Date: 01/28/06

Counted By: XXXXXXXXXX

Analyzed By: XXXXXXXXXX

Initials

CB

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06-ER-085

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: GL09708
File ID: 2SC04086.s0
Priority: Yes

Description\Location

Bldg. 24 Footprint 012706-006 As Left
Long Count

Collector: XXXXXXXXXX
Date Received: 1/27/06
Date Collected: 1/27/06

<u>Radionuclide</u>		<u>Activity (pCi/g)</u>	<u>MDA</u>
Co-60	*	0	0.04
Cs-137	*	0.01	0.04
Pb-210		0.7	0.46
Ra-226		1.18	0.59
Ac-227 (D)	*	0	0.21
Th-230	*	0	5.82
Th-232 (D)		0.72	0.13
Pu-238	*	5.75	12.27
Am-241	*	0.02	0.05

Other Nuclides

<u>Radionuclide</u>	<u>Activity (pCi/g)</u>	<u>MDA</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

Σ DOT 0.02 nCi/g

Instrument type: High Purity Germanium

Σ DOT 2nCi/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

Comments:

Date: 1/28/06

Counted By: XXXXXXXXXX

Analyzed By: XXXXXXXXXX

Initials

GB

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APPENDIX C

PRS Recommendation Sheets

PRS 441 was determined to be a Removal Action in March 2005. However, no PRS Recommendation Sheet or Fact Sheet is included for PRS 441, as the PRS package for PRS 441 has not been finalized.

**MOUND PLANT
PRS 59
WASTE STORAGE SITE-SOIL BOXES STAGED SOUTH OF
WD BUILDING**

RECOMMENDATION:

PRS 59 was identified as a storage area for boxes containing plutonium contaminated soil during a US EPA 1988 Preliminary Review/Visual Site Inspection. Procedures were in place to prevent the transfer of contamination from the immediate work site to storage areas. In 1984 plutonium was detected at 133.9 pCi/g at one location in Area 14 near PRS 59. In 1994 four locations were sampled in the area of PRS 59 as part of the cleanup verification at Area 14. No plutonium was detected above the guideline criteria of 25 pCi/g. In addition, all thorium results were below the regulatory limits of 5/15 pCi/g.

Therefore, NO FURTHER ASSESSMENT is recommended for PRS 59.

CONCURRENCE:

DOE/MEMP:	<u>Arthur W. Kleinrath</u>	<u>5/13/97</u>
	Arthur W. Kleinrath, Remedial Project Manager	(date)
USEPA:	<u>Timothy J. Fischer</u>	<u>5/13/97</u>
	Timothy J. Fischer, Remedial Project Manager	(date)
OEPA:	<u>Brian K. Nickel</u>	<u>5/13/97</u>
	Brian K. Nickel, Project Manager	(date)

SUMMARY OF COMMENTS AND RESPONSES:

Comment period from 7/15/97 to 8/17/97

- No comments were received during the comment period.
- Comment responses can be found on page 1, 2 of this package.

MOUND PLANT
PRS 176/177/178/300
WASTE TRANSFER SYSTEM LINE, TANKS AND SOIL

RECOMMENDATION:

These Potential Release Sites (PRSs) deal with the transfer of plutonium-238 contaminated waste solutions via the Waste Transfer System (PRS 300) to the Waste Disposal Building (WD) and to two underground storage tanks in Building 41 (PRSs 177 and 178). The PRSs were created as a result of historical knowledge of leaks in the underground Waste Transfer System (WTS).

The WTS was built in 1967 and remained in operation until 1974 when repeated leaks in the WTS lines forced the WTS to be abandoned. In 1974, the soils associated with the WTS leaks (PRS 176) were remediated. In the mid 1980s, the WTS line, the two holding tanks, and Building 43 were removed. Post removal sampling results obtained from the November 1993 *OU6, Area 19 and Area 14 Verification Report* indicated all concentrations of VOCs, SVOCs, pesticides/PCBs and inorganics, in the soil, were below their 10^{-6} Risk Based guideline values. Additionally, the *OU6, Area 19 and Area 14 Verification* sampling showed, within the 95% upper confidence level (UCL), plutonium-238 and thorium soil concentrations were below their respective guideline criteria of 25 pCi/g (Mound ALARA goal for plutonium) and 15 pCi/g (regulatory guideline criteria for subsurface thorium). No other contaminants were detected above guideline criteria.

Therefore, NO FURTHER ASSESSMENT is recommended for PRSs 176, 177, 178, and 300.

CONCURRENCE:

DOE/MB:

Arthur W. Kleinrath 11/26/96
Arthur W. Kleinrath, Remedial Project Manager (date)

USEPA:

Timothy J. Fischer 12/3/96
Timothy J. Fischer, Remedial Project Manager (date)

OEPA:

Brian K. Nickel 12/17/96
Brian K. Nickel, Project Manager (date)

SUMMARY OF COMMENTS AND RESPONSES:

Comment period from 1/9/97 to 2/13/97

No comments were received during the comment period.

Comment responses can be found on page _____ of this package.

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MOUND PLANT
PRS 358
SOIL CONTAMINATION

RECOMMENDATION:

PRS 358 was identified due to elevated levels of organic chemicals detected by the qualitative PETREX survey during the OU5, Non-AOC Investigation. A subsequent quantitative analysis showed that there were no analytes measured in excess of the guideline criteria. The only other chemical data from the area are those from soil samples taken at the base of Building 24, located across the railroad tracks from PRS 358. These will be addressed as part of the Building 24 decontamination and decommissioning evaluation process. Therefore, NO FURTHER ASSESSMENT is recommended for PRS 358.

CONCURRENCE:

DOE/MB:

Arthur W. Kleinrath 12/19/96
Arthur W. Kleinrath, Remedial Project Manager (date)

USEPA:

Timothy J. Fischer 12/18/96
Timothy J. Fischer, Remedial Project Manager (date)

OEPA:

Brian K. Nickel 12/18/96
Brian K. Nickel, Project Manager (date)

SUMMARY OF COMMENTS AND RESPONSES:

Comment period from 2/27/97 to 4/3/97



No comments were received during the comment period.



Comment responses can be found on page _____ of this package.