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V-0307-01

***Expedited Response Action
Phase 2
Field Activities Report
Hanford-North Slope***

October 1994

***U. S. Army Corps of Engineers
Walla Walla District
Building 614
Walla Walla, Washington 99362***



SHANNON & WILSON, INC.

GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

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October 12, 1994

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U.S. Army Corps of Engineers
Walla Walla District
Building 614
Walla Walla, Washington 99362

Attn: Mr. Randy Chong

**RE: EXPEDITED RESPONSE ACTION PHASE 2 FIELD ACTIVITIES REPORT
HANFORD - NORTH SLOPE**

This Phase 2 Field Activity Report describes the work accomplished on the Hanford-North Slope during the period from July 22, 1994, to September 22, 1994. The initial statement of work for this project required concrete debris, building material, and trash removal at designated sites within the U.S. Department of Energy, Hanford-North Slope. Gravel backfilling of cisterns and bunkers; and concrete slurry backfilling of designated underground bunkers and water cisterns. The work areas are shown on Figure 1, and contract tasks are shown in Table 1.

The work was conducted by E.P. Johnson Construction & Environmental, Inc. (E.P. Johnson) and Shannon & Wilson, Inc. for the U.S. Army Corps of Engineers, Walla Walla District (Corps), under Contract No. DACW68-93-D-0003, Delivery Order No. 7. Observation of the removal work was performed by Shannon & Wilson, Inc. as a subcontractor to E.P. Johnson.

The goal of the expedited response action is to conduct remedial actions in areas accessible to the public at the Hanford-North Slope. The objective of the work is to clean the designated land of all tripping hazards and objectionable debris that may have been left behind from the demolition of old military and homestead sites. Objectionable debris is defined as man-made trash or debris that has no value as wildlife habitat, and has no cultural or environmental significance.

SITE BACKGROUND AND DESCRIPTION

The Hanford-North Slope consists of approximately 140 square miles of land north of the Columbia River across from the active area of the Hanford Site. The North Slope was

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homesteaded from the late 1800s until the government took control of this area in the early 1940s. Prior to government control of the North Slope, homesteaders used the land primarily for sheep and cattle grazing and for growing row crops and orchards. Wheat was grown on high ground away from the river. Grazing took place on land too arid for crops or too distant from water for irrigation.

Additional land acquisitions on the North Slope took place in the 1950s for construction of Nike Missile Air Defense System positions (PSN) and anti-aircraft gun emplacements, as well as to increase the buffer zone between the public land and the production areas of the Hanford Site. A total of seven anti-aircraft gun emplacements and three Nike Missile positions were located on the North Slope. The military sites were closed in the early 1960s. Many of the buildings were considered a potential hazard to the public and were torn down or decommissioned in the mid-1970s; evidence remains of many of these buildings.

With the recent change in mission at the Hanford Site from plutonium production to environmental cleanup, attention has been given to releasing "clean" tracts of land for other uses. Since 1975, the North Slope has been managed by the Washington State Department of Wildlife and the U.S. Fish and Wildlife Service. Some areas have been open to the public. Certain areas included in the wildlife management area have been opened to ranchers, who obtained grazing permits for cattle grazing. The eastern portion of the North Slope contains a wasteway used by local farmers to drain runoff.

Westinghouse Hanford Company (WHC) conducted an investigation of the North Slope in 1990. The report, *North Slope Investigation Report* (WHC 1990), identified 39 sites associated with military or homesteader activities on the Hanford-North Slope.

PROJECT ORGANIZATION AND RESPONSIBILITIES

Field activities were conducted by E.P. Johnson and Shannon & Wilson for the Corps. Work was performed in accordance with the approved Field Activities Plan and Site Health and Safety Plan developed for this project. The Shannon & Wilson field engineer observed the field activities. This individual was also responsible for alerting the Shannon & Wilson

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Project Manager of any changed conditions, and acted as the Site Health and Safety Manager for E.P. Johnson and Shannon & Wilson personnel.

SITE ACTIVITIES

Overview

The primary tasks undertaken by the contractor, E.P. Johnson, and recorded by the field engineer were:

- ▶ Concrete, building material, and debris removal
- ▶ Cistern/septic tank/bunker backfilling

The field engineer's field notes are located in Appendix B

Site Access

The contractor was diligent in protecting the fragile, arid environment. Existing roads were used at all times, unless otherwise directed by the Corps. Vehicle widths did not exceed the width of the road, and the "mule" were often used for debris removal to reduce damage to the sagebrush/grasslands.

Documentation

Site activities were documented by the Shannon & Wilson field engineer. Observations were recorded in the format prescribed in the work plan and included in Appendix B.

Debris Removal

On Friday, July 22, 1994, personnel from E.P. Johnson, monitored by George R. Gardner of Shannon & Wilson, began debris removal. Appendix A is a listing of sites and their status at contract completion on September 22, 1994.

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Cistern/Bunker Backfilling

The Wagon Road, Overlook, Stock Tank and Well, and Homestead cisterns were completely filled by September 7, 1994, with pit-run gravel from Central Pre-Mix Concrete Company in Mattawa, Washington. Nearly 100 cubic yards of pit-run gravel were hauled to fill the four cisterns. The underground valve box at the H-12-L site was filled with concrete slurry on September 12, 1994, along with underground vaults discovered at H-06-L and PSN 07/10.

FOLLOW-UP

Overview

The work described in this Phase 2 Field Activities Report and completed by E.P. Johnson and Shannon & Wilson closed out the work outlined in the statement of work for this phase. Some work outlined in the statements of work has not been completed. Table 1 shows a matrix of the completed and remaining tasks. A brief description of the tasks to be completed is outlined below.

Debris Removal

Debris removal was not completed at the following sites:

- H-06-C Site
- Homestead Cistern Site
- Stock Tank and Well Site

The debris at the H-06-C site was in a deep pit, the bottom of which was covered with large rocks. Mike Remington and Dave Stanton of the Corps Safety Office visited the site on July 22, 1994, with Bill Zimmerman of E.P. Johnson. Mr. Zimmerman raised several safety issues concerning the rocks and steep sides of the disposal site. The Corps agreed that the safety issues were valid and met with representatives of DOE Safety. It was decided to eliminate this site from Phase 2. The decision to leave the trash at the Homestead Cistern and the Stock Tank and Well sites was made to preserve the culturally significant artifacts from the Homestead era.

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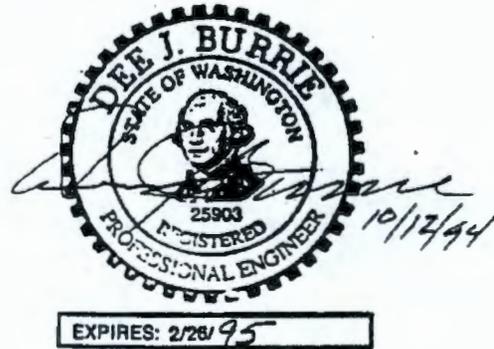
Summary

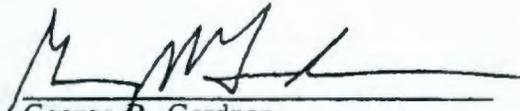
The statement of work for the Phase 2 clean-up on the Hanford-North Slope identified 13 work sites in addition to 26 of the 39 sites listed in the Phase 1 statement of work and identified by WHC in their report (WHC 1990). Of these 39 sites, 38 were completely closed out during the two phases, only the H-06-C was not closed out.

We have appreciated the opportunity to be of service to you on this project. Should you have any comments or questions regarding this report, please contact us.

Sincerely,

SHANNON & WILSON, INC.




George R. Gardner
Senior Environmental Engineer

Dee J. Burrie, P.E.
Branch Manager

GRG:DJB:JFZ/grg

- Enclosures:
- Table 1 - Task Completion Matrix (3 pages)
 - Figure 1 - Vicinity Map
 - Appendix A - Site Status Report
 - Appendix B - Field Reports
 - Appendix C - Photos
 - Appendix D - Important Information about Your Environmental Assessment Report

TABLE 1
TASK COMPLETION MATRIX

| Site | Remove Debris | Excavate Well Structures | Backfill Cisterns | Sample/Remove Contaminated Soil | Slurry Backfill Septic Tanks/Bunkers | Others |
|--|----------------|--------------------------|-------------------|---------------------------------|--------------------------------------|--------|
| Phase 1A | | | | | | |
| Hanford Firing Range Point and Target Area | A | | | | | |
| Dune Homestead | A ³ | | | | | |
| Stove Site | A ³ | | | | | |
| Power Pole 12-3 Site | A ³ | | A | | | |
| H-12-L Site | | | | | D | |
| Wagon Road Site | A ³ | | A,F | | | |
| Lonetree Homestead | A ³ | | | | | |
| Overlook and Homestead Site | A ³ | | A ¹ | | | |
| Coyote Bait Can | A ³ | | | | | |
| Phase 1B | | | | | | |
| H-06-L | | | | | D | |
| PSN 07/10 Site | | B | | | | |
| PSN 04 Site | | B | | | | |
| PSN 01 Site | | B | | | | |
| Wasteway Site | A ³ | | A ³ | | | |
| Clay Pit Cistern | A ³ | | A ³ | C | | |
| Cow Cistern | A ² | | A ³ | | | |

TABLE 1 (continued)

TASK COMPLETION MATRIX

| Site | Remove Debris | Excavate Well Structures | Backfill Cisterns | Sample/ Remove Contaminated Soil | Slurry Backfill Septic Tanks/ Bunkers | Others |
|--------------------------------|-------------------|--------------------------|-------------------|----------------------------------|---------------------------------------|--------|
| Phase 1C | | | | | | |
| Igloo Site | A | | | | | |
| Asphalt Batch Plant Site | A | | | | | |
| PSN 90 Site | A ² ,F | | | C, A ⁴ | | |
| WSDOT Gravel Pit, No. 47 | A,F | | | C, A ⁴ | | |
| H-83-L Site | A | | | | | |
| PSN 80 Site | A,F | B | | | | |
| H-83-C Site | A,F | B | | | | |
| .81-R Site | A,F | | | C, A ⁴ | | |
| PSN 72/82 Site | A,F | B | | | A ³ | |
| Bridge View Site | A,F | | | | | |
| PHASE 2A | | | | | | |
| H-12-C Site | F | | | | | |
| H-12-R Site | F | | | | | |
| H-12-L Site | F | | | | F | |
| PSN 12/14 Site | F | B | | | | |
| PSN 12/14 Site (Motor Pool) | F | | | | | |
| PSN 12/14 Site (Military Dump) | F | | | | | |
| Homestead Cistern | F | | F | | | |
| Stock Tank & Well | F | | F | | | |

TABLE 1 (continued)

TASK COMPLETION MATRIX

| Site | Remove Debris | Excavate Well Structures | Backfill Cisterns | Sample/Remove Contaminated Soil | Slurry Backfill Septic Tanks/Bunkers | Others |
|--------------------------|---------------|--------------------------|-------------------|---------------------------------|--------------------------------------|--------|
| Phase 2A (CONT.) | | | | | | |
| Asbestos Pipe Dump Site | | | | | | H |
| PHASE 2B | | | | | | |
| H-06-L Site | F | | | | | |
| PSN 04 Site | F | | | | G | |
| PSN 04 Site (Radar Site) | F | | | | | |
| PSN 07/10 Site | F | | | | | |
| PHASE 2C | | | | | | |
| Borrow Pit 56 | F | | | | | |
| PSN 01 Site | F | | | | | |
| PHASE 2E | | | | | | |
| H-06-C Site | F | | | | | |
| PHASE 2F | | | | | | |
| H-83-L Site | F | | | | | |

- NOTE: A--Items from Requisition No. W68SBV-3228-DP01.
 B--Items from Change #1 to Requisition No. W68SBV-3228-DP01.
 C--Items from Requisition No. W68SBV-3244-DP01.
 D--Items from Requisition No. W68SBV-3265-DP01.
 E--Items from Delivery Order No. 4, DACW68-93-D-0002. (2.4, D Site Investigation & Work Plan Revision)
 F--Items from Delivery Order No. 7, DACW68-94-D-0003.
 G--Items from Delivery Order No. 2, DACW68-94-D-0001. (CDM)
 H--Items from Purchase Order DACW68-94-M-3982. (Tektoniks)
¹ Two cisterns.
² Excluding concrete rubble.
³ Additive Item No. 1
⁴ Additive Item No. 2
⁵ Additive Item No. 3

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APPENDIX A
SITE STATUS REPORT

SITE STATUS REPORT, PHASE 1 AND PHASE 2

Phase 1A

Hanford Firing Range Point and Target Area Site: The only debris removed at this site were metal 55-gallon drums used as targets and other metal debris.

Dune Homestead: Debris removal was completed during Phase 1.

Stove Site: Debris removal was completed during Phase 1.

Power Pole 12-3 Site: Debris removal was completed during Phase 1. Cistern was also filled during Phase 1 with 5 cubic yards (cy) of pit-run gravel.

H-12-L Site: Debris removal was completed during Phase 2. The underground bunker was backfilled with slurry during Phase 1. The valve box was also backfilled with slurry during Phase 2.

Vagon Road Cistern: Debris removal was completed during Phase 1. The debris at this site included glass bottles, tin cans, and other garbage. Filling the cistern took approximately 10 cy of pit-run gravel, and it was completed during Phase 2.

Lonetree Homestead: Debris removal was completed during Phase 1.

Overlook and Homestead Site: Debris removal was completed during Phase 1. Cistern was filled during Phase 2 with 55 cy of pit-run gravel.

Coyote Bait Can: Can removed during Phase 1

Phase 1B

H-06-L Site: Debris removal was completed during Phase 2. The underground bunker was backfilled with 29 cy of slurry during Phase 1. The debris removed from this site during Phase 2 included wire (mesh and barbed), concrete, sheet metal, and other debris. A small cistern was backfilled during Phase 2.

PSN 07/10 Site: Debris removal was completed during Phase 2. The debris at this site included building materials, cable, glass bottles, tin cans, barbed wire, and bags of garbage collected by

others. Steel rebar and sections of steel pipe were cut off. Excavation around the concrete well structure was completed in Phase 1.

PSN 04 Site: Debris removal was completed under Phase 2. The debris at this site included building materials, glass bottles, tin cans, barbed wire, and other garbage. The contractor removed approximately 200 lineal feet of 1-inch steel cable from this site. Excavation around concrete well structure was completed in Phase 1. The septic tank was backfilled.

PSN 01 Site: Debris at this site included over a mile of barbed wire strung as a security fence around the site. Fencing removed also included a drop-bar gate at the entrance to the site with two sections of 6" reinforced concrete pipe. A large amount of wood that had been used to construct gravel walkways was also removed. Debris removal is complete. Excavation around the concrete well structure was completed in Phase 1.

Wasteway Cistern Site: Debris removal is complete. The debris at this site included glass bottles, tin cans, cable, concrete, and other garbage. Filling the cistern took approximately 33 cy of pit-run gravel.

Clay Pit Cistern Site: Debris removal is complete. The debris at this site included glass bottles, tin cans, asbestos pipe, and other garbage. Filling the cistern took approximately 2 cy of pit-run gravel. The asbestos pipe was removed in accordance with Paragraph 7.4 of the approved Contractor Health and Safety Plan.

Cow Cistern Site: Debris removal is complete. The debris at this site included glass bottles, tin cans, and other garbage. Filling the cistern took approximately 2 cy of pit-run gravel.

Phase 1C

Igloo Site: The debris at this site included a stock watering drum, glass bottles, tin cans, barbed wire, and other garbage. Debris removal is complete.

Asphalt Batch Plant Site: Debris removal is complete. The debris removed from this site during Phase 2 included asphalt, concrete, sheet metal and other debris.

PSN 90 Site: The site had contaminated soil, along with a large amount of concrete rubble from the demolished grease rack, several concrete pads, and some large sections of buried building materials, as directed by the contract documents. The debris removed at this site included building materials (asbestos shingles, concrete, and rebar), metal pipe, fence wire (barbed and mesh), and

other garbage. The contaminated soil was removed by others. Some of the concrete debris was buried on site, and the rest was hauled to the DOE Concrete Recycling Facility under Phase 2. Steel rebar and sections of steel pipe were cut off.

WSDOT Gravel Pit, No. 47 Site: The debris was removed under Phase 2. The debris at this site included building materials, glass bottles, tin cans, paint cans, cable, concrete, and other garbage in the far pit. WSDOT removed the contaminated soil.

H-83-L Site: Debris removal, except wood, is complete. The debris at this site included building materials, galvanized cables and rods, glass bottles, tin cans, communications wire, and other garbage. A large pile of wood has been made and this will be burned by the U.S. Fish and Wildlife Service at a later date. With Corps direction, three bollards, with approximately 1 cubic yard of concrete on the end of each, were left to be removed at a later date. Three septic tank openings were discovered at this site and reported to the Corps for further action. A metal pipe with a flange on one end was left buried on this site. It was not determined what the pipe is connected with; it may be a buried fuel tank (photo 33, Appendix B, Phase 1 Report). During Phase 2, the bollards were buried in an old bunker, and the wooden debris was removed.

PSN 80 Site: The debris at this site included building materials, insulators, glass bottles, tin cans, cable, and other garbage. Five 55-gallon drums of contaminated soil were removed. Two septic tank openings were discovered at this site. These septic tanks were filled with 16 cy of concrete slurry under modification to the E.P. Johnson purchase order. Debris cleanup is complete. Excavation around the concrete well structure was completed in Phase 1

H-83-C Site: Debris removal is complete. The debris at this site included building materials, 20 tires, glass bottles, wire mesh, metal pipe, and other garbage. A septic tank opening was discovered at this site and was reported to the Corps for further action. Prior to the completion of work on December 22, 1993, this septic tank was filled with concrete slurry. A large metal door and eight sections of sheet metal wall were removed from this site. Excavation around the concrete well structure was completed in Phase 1.

H-81-R Site: The debris at this site included building materials (concrete debris and rebar), oil filters, metal pipes, glass bottles, tin cans, communications wire, and other garbage. Debris removal, except wood, is complete. Two large piles of wood have been made, and these were to be burned by the U.S. Fish and Wildlife Service at a later date. Contaminated soil was removed and

disposed of at the Richland Landfill. A rifle pit (bunker) was cleaned out and backfilled. The two large debris piles were never burned and were removed under Phase 2.

Position (PSN) 72/82 Site: The debris at this site included a large amount of building materials, such as bricks, railroad ties, bottles, cans, communications wire, cable, and other garbage. Debris cleanup is complete except for an old trailer frame shown in photo 14 of the Phase 1 Report. The septic tank received 39 cy of concrete slurry and is completely filled. Two rifle pits (bunkers), installed as security positions, were cleaned out and backfilled. Additional debris was removed from this site during Phase 2, and steel guy wires were cut off. Excavation around the concrete well structure was completed in Phase 1.

Bridge View Site: The debris at this site included building materials, wood, glass, wire mesh, and paper products. Debris removal as directed by the Corps is complete. Two large piles of wood had been made, and these were burned by the U.S. Fish and Wildlife Service. During Phase 2 additional debris was removed from this site after completion of landfill excavations by Camp Dresser & McKee, Inc. (CDM).

Phase 2A

H-12-C Site: Debris removal was completed during Phase 2. The debris at this site included building materials, cable, glass bottles, tin cans, and barbed wire.

H-12-R Site: Debris removal was completed during Phase 2. The debris at this site included building materials, cable, glass bottles, tin cans, barbed wire, and auto parts.

H-12-L Site: See Phase 1A above.

PSN 12/14 Site: Debris removal was completed during Phase 2. The soil was excavated around the well structure during Phase 1. Excavation around the concrete well structure was completed in Phase 1.

PSN 12/14 Site (Motor Pool): Debris removal was completed during Phase 2. The debris at this site included building materials, cable, glass bottles, tin cans, barbed wire, and auto parts.

PSN 12/14 Site (Military Dump): During Phase 2, debris was removed from this site after completion of landfill excavations by CDM. The debris included building materials, cable, glass bottles, tin cans, barbed wire, and auto parts. Debris removal was completed during Phase 2.

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Homestead Cistern: No debris was removed from this site. The cistern was backfilled with 3 cy of pit-run gravel.

Stock Tank & Well Site: No debris was removed from this site. The cistern was backfilled with 25 cy of pit-run gravel.

Phase 2B

H-06-L Site: See Phase 1B above.

PSN 04 Site: See Phase 1B above.

PSN 04 (Radar) Site: Debris removed included wooden construction materials, metal pipe, timbers, bottles, cans, barbed wire and mesh fencing, fence posts, aluminum siding, communications wire, and tires. Several items were stockpiled on visqueen as potentially hazardous: a crushed 55-gallon oil can with residue and stained soil; three fluorescent light fixtures with ballasts; six asbestos-lined brake shoes; an auto battery; and an oil filter.

PSN 07/10 Site: See Phase 1B above.

Phase 2C

Barrow Pit 56 Site: Debris removed included communications wire, timbers, bottles, cans, barbed wire fencing, and fence posts. Several items were stockpiled on visqueen as potentially hazardous: one 5-gallon oil can full of dead beetle (possible herbicide/insecticide) and two 5-gallon oil cans with liquid.

PSN 01 Site: See Phase 1C above.

Phase 2E

H-06-C Site: This site was removed from Expedited Response Action - Phase 2 due to serious safety concerns. However debris was removed from along the road connecting this site with PSN 04.

Phase 2F

I-83-L Site: See Phase 1C above.

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APPENDIX B
FIELD REPORTS

V-0307-01

Daily QA Report

Date: July 22, 1994

Project Name: Hanford North Slope Cleanup, Phase 2

Project Number: V-0307-01

Project Location: Hanford North Slope Sites

Field Engineer: George R. Gardner (Shannon & Wilson, Inc.)

Weather Conditions:

90 °F, wind 3 knots out of the West, clear and sunny.

Observations/Comments:

Personnel on site: William Zimmerman & Ken Linck (E.P. Johnson); Paul Ching & Claude Huckins (Corps)

Equipment on Site: IH S1900 Dump Truck, ¾-ton pickup w/trailer, & Kawasaki Mule 2510 ATV.

SAMPLES COLLECTED

| Sample Number | Sample Location | Type | Comment |
|---------------|-----------------|------|---------|
| NONE | | | |

Work Performed:

Field Engineer arrived on site (PSN 07/10) at 0600 hours July 22, 1994 and was met by Claude Huckins from Hanford Resident Office of the Walla Walla District and Bill Zimmerman and Ken Linck of E.P. Johnson, a safety meeting was held and the work scheduled for the day was discussed. During the safety meeting the Site Health and Safety Plan was reviewed and signed the field log. The E.P. Johnson personnel went to Othello and returned at 0730 hours and started picking up trash on the east side of PSN 07/10, this site had been excavated during the landfill investigation and debris was left on the surface. Concrete debris was discovered and marked along with several paint cans with paint residue. Wire and angle iron embedded in the ground was marked for removal with the ATV/CART mover with hoist. At 1000 hours Randy Chong (Corps) and Ken Artz, Hank Henry, and Jeff Evert (ICF Kaiser) arrived at the site and removed four drums of TPH and Lead contaminated soil. At 1045 hours, the truck was full and at 1100 hours Dave Stanton (Corps) arrived. At 1105 Dave Stanton, Paul Ching, and the E.P. Johnson personnel left the site enroute to the DOE Central Landfill and Concrete Recycler facilities on the Hanford Site in the vicinity of the 200 Areas. They also planned to visit the DOE tire recycling area located in building 1171 in the 1100 Area. The rest of the day was spent in coordination with personnel at these facilities and a safety assessment of a portion of the H-06C site with Mike Remington of the Corps Safety Office. All personnel then left the site and Claude Huckins locked the gate.

Field Analysis Performed: (Instrument checks, Calibration)

None.

Daily QA Report

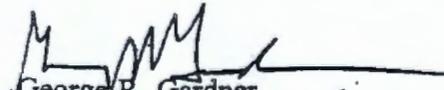
Date: July 22, 1994

Problems Encountered/Corrective Actions: (Specify Sampling Problems, Alternative Methods Used and any Deviation From Planned Activities)

Quality Control Activities Conducted:

Levels of Personnel Protection Used During Field Work:

Field engineer and workers were in Level D for all trash removal.



George R. Gardner
Senior Environmental Engineer

Daily QA Report

Date: July 25, 1994

Project Name: Hanford North Slope Cleanup, Phase 2

Project Number: V-0307-01

Project Location: Hanford North Slope Sites

Field Engineer: George R. Gardner (Shannon & Wilson, Inc.)

Weather Conditions:

90 °F. wind 8 knots out of the West, clear and sunny.

Observations/Comments:

Personnel on site: William Zimmerman & Ken Linck (E.P. Johnson); Paul Ching, Bill Jennings, & Claude Huckins (Corps)

Equipment on Site: IH S1900 Dump Truck, 3/4-ton pickup w/trailer, & Kawasaki Mule 2510 ATV.

SAMPLES COLLECTED

| Sample Number | Sample Location | Type | Comment |
|---------------|-----------------|------|---------|
| NONE | | | |

Work Performed:

Field Engineer arrived on site (PSN 72/82) at 0630 hours July 25, 1994 and met Claude Huckins and Bill Jennings from Hanford Resident Office of the Walla Walla District and Bill Zimmerman and Ken Linck of E.P. Johnson. The E.P. Johnson personnel were removing fence posts and barbed wire from north of the well. Paint cans were discovered at two locations with paint residue, these were marked. Several solvent cans and an oil filter were discovered and evaluated, the RCRA empty cans were removed but the others were marked with a lath and flagging. The ATV/CART (Mule) eased trash removal somewhat however it now requires double handling of every piece of wood or other trash. At 0800 hours the PSN 72/82 site was clean and the crew moved on to the Bridge View Site. At 0935 hours, the truck was full and Bill and Ken left along with Paul Ching for the DOE Central Landfill.. At 1105 the E.P. Johnson personnel returned and made four more trips with the Mule. The truck was loaded by 1235 hours and Ken took the load to the landfill. Paul Ching accompanied him and Claude and Bill performed a reconnaissance of the H-81-R and H-83-C sites for work on July 26, 1994. All personnel then left the site and Claude Huckins locked the gate.

Field Analysis Performed: (Instrument checks, Calibration)

None.

Problems Encountered/Corrective Actions: (Specify Sampling Problems, Alternative Methods Used and any Deviation From Planned Activities)

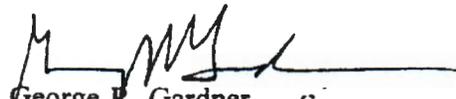
Daily QA Report

Date: July 25, 1994

Quality Control Activities Conducted:

Levels of Personnel Protection Used During Field Work:

Field engineer and workers were in Level D for all trash removal.



George R. Gardner
Senior Environmental Engineer

Daily QA Report

Date: July 26, 1994

Project Name: Hanford North Slope Cleanup, Phase 2

Project Number: V-0307-01

Project Location: Hanford North Slope Sites

Field Engineer: George R. Gardner (Shannon & Wilson, Inc.)

Weather Conditions:

90 °F, wind 8 knots out of the West, clear and sunny.

Observations/Comments:

Personnel on site: William Zimmerman, Corey Prior, & Ken Linck (E.P. Johnson); Paul Ching, Bill Jennings, & Claude Huckins (Corps)

Equipment on Site: IH S1900 Dump Truck, Chevrolet ¾-ton pickup w/trailer, & Kawasaki Mule 2510 ATV.

SAMPLES COLLECTED

| Sample Number | Sample Location | Type | Comment |
|---------------|-----------------|------|---------|
| NONE | | | |

Work Performed:

Field Engineer arrived on site (Bridge View site) at 0610 hours July 26, 1994. Claude Huckins and Bill Jennings from Hanford Resident Office of the Walla Walla District and Bill Zimmerman and Ken Linck of E.P. Johnson arrived at 0640 hours. A safety meeting was held and the work scheduled for the day was discussed. During the safety meeting the Site Health and Safety Plan was reviewed and field log was signed. The E.P. Johnson personnel started removing fence posts and wire from the Bridge View site. Paint cans were discovered at two locations with paint residue, these were marked. At 0941 hours, the truck was full and Ken left along with Paul Ching for the DOE Central Landfill. At 1059 the E.P. Johnson personnel returned along with Corey and made two more trips with the Mule to the Overlook site. At 1230 hours, Paul Ching declared the Bridge View site clean and the crew moved along the road to the H-81-R and H-83-C. The crew picked up wooden fence post, TV tubes, cans, construction material, and empty oil cans. The truck was loaded by 1305 hours and Ken took the load to the landfill. Paul Ching accompanied him. Corey and Bill hauled two loads of wooden construction material out of the H-81-R site and stockpiled it along the road for pickup on July 27, 1994. All personnel then left the site and Claude Huckins locked the gate.

Field Analysis Performed: (Instrument checks, Calibration)

None.

Problems Encountered/Corrective Actions: (Specify Sampling Problems, Alternative Methods Used and any Deviation From Planned Activities)

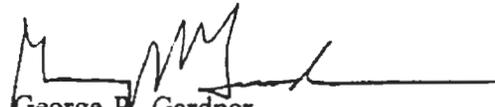
Daily QA Report

Date: July 26, 1994

Quality Control Activities Conducted:

Levels of Personnel Protection Used During Field Work:

Field engineer and workers were in Level D for all trash removal.



George R. Gardner
Senior Environmental Engineer

Daily QA Report

Date: July 27, 1994

Project Name: Hanford North Slope Cleanup, Phase 2

Project Number: V-0307-01

Project Location: Hanford North Slope Sites

Field Engineer: George R. Gardner (Shannon & Wilson, Inc.)

Weather Conditions:

95 °F, wind 8 knots out of the West, clear and sunny.

Observations/Comments:

Personnel on site: William Zimmerman, Corey Prior, & Ken Linck (E.P. Johnson); Paul Ching, Bill Jennings, & Claude Huckins (Corps)

Equipment on Site: IH S1900 Dump Truck, ¾-ton pickup w/trailer, & Kawasaki Mule 2510 ATV.

SAMPLES COLLECTED

| Sample Number | Sample Location | Type | Comment |
|---------------|-----------------|------|---------|
| NONE | | | |

Work Performed:

Field Engineer arrived on site (H-81-R) at 0610 hours July 27, 1994. Claude Huckins and Bill Jennings from Hanford Resident Office of the Walla Walla District and Bill Zimmerman, Corey Prior, and Ken Linck of E.P. Johnson arrived at 0600 hours. A safety meeting was held and the work scheduled for the day was discussed. During the safety meeting the Site Health and Safety Plan was reviewed and field log was signed. The E.P. Johnson personnel started removing wooden construction materials from the H-81-R site. At 0730 hours, the truck was full and the site was clean. The crew moved to the H-83-C site and stockpiled metal roofing material and wire, this was completed at 0815 hours and the site was cleared with the exception of filling the cistern and cutting two pieces of rebar. The crew moved down to the PSN 80 site and at 0857 Ken and Paul took the first load to the DOE Central Landfill. At 1030 the truck returned to the H-83-C site and loaded the stockpiled trash. It returned to PSN 80 at 1215 hours, the truck was loaded by 1235 hours and Ken took the load to the landfill. Paul Ching accompanied him. Corey and Bill hauled several loads of wooden construction material, commo wire, fencing and tin cans and stockpiled it along the road it was loaded in the truck when Ken returned with the truck at 1345. All personnel left the site at 1430 hours and Claude Huckins locked the gate.

Field Analysis Performed: (Instrument checks, Calibration)

None.

Problems Encountered/Corrective Actions: (Specify Sampling Problems, Alternative Methods Used and any Deviation From Planned Activities)

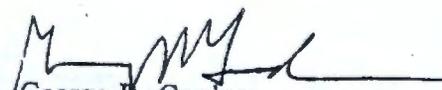
Daily QA Report

Date: July 27, 1994

Quality Control Activities Conducted:

Levels of Personnel Protection Used During Field Work:

Field engineer and workers were in Level D for all trash removal.



George K. Gardner
Senior Environmental Engineer

Daily QA Report

Date: July 28, 1994

Project Name: Hanford North Slope Cleanup, Phase 2

Project Number: V-0307-01

Project Location: Hanford North Slope Sites

Field Engineer: George R. Gardner (Shannon & Wilson, Inc.)

Weather Conditions:

85 °F, wind 8 knots out of the West, clear and sunny.

Observations/Comments:

Personnel on Site: William Zimmerman, Corey Prior, & Ken Linck (E.P. Johnson); Paul Ching & Claude Huckins (Corps)

Equipment on Site: IH S1900 Dump Truck, Chevrolet ¾-ton pickup w/trailer, & Kawasaki Mule 2510 ATV.

SAMPLES COLLECTED

| Sample Number | Sample Location | Type | Comment |
|---------------|-----------------|------|---------|
| NONE | | | |

Work Performed:

Field Engineer arrived on site (PSN 80) at 0610 hours July 28, 1994. Claude Huckins from Hanford Resident Office of the Walla Walla District and Bill Zimmerman, Corey Prior, and Ken Linck of E.P. Johnson arrived at 0530 hours. A safety meeting was held and the work scheduled for the day was discussed. During the safety meeting the Site Health and Safety Plan was reviewed and signed. The E.P. Johnson personnel completed loading the truck with wooden construction materials, fencing wire, 55-gallon drums, bottles, cans, and a washing machine from the PSN 80 site. At 0650 hours, the truck was full and Ken took the first load to the DOE Central Landfill. Bill and Corey hauled several loads and stockpiled them. At 0902 the truck returned to the PSN 80 site and loaded the stockpiled trash. At 1000 hours, the truck is loaded with cans, bottles, fencing wire and wood construction material and Ken took the load to the landfill. Corey and Bill hauled several loads of wooden construction material, commo wire, fencing and tin cans and stockpiled it along the road it was loaded in the truck when Ken returned with the truck at 1115. All personnel then left the site at 1430 hours and Claude Huckins locked the gate.

Field Analysis Performed: (Instrument checks, Calibration)

None.

Problems Encountered/Corrective Actions: (Specify Sampling Problems, Alternative Methods Used and any Deviation From Planned Activities)

During the stockpiling of the debris, E.P. Johnson flagged several items that were outside their scope of work: three treated railroad ties were found about 500 meters NM of PSN 80.

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6 grease pails with residue were also discovered and flagged. E.P. Johnson also found 2 used oil filters and a pressure treated fence post which they marked.

Quality Control Activities Conducted:

Levels of Personnel Protection Used During Field Work:

Field engineer and workers were in Level D for all trash removal.


George R. Gardner
Senior Environmental Engineer

Daily QA Report

Date: July 29, 1994

Project Name: Hanford North Slope Cleanup, Phase 2

Project Number: V-0307-01

Project Location: Hanford North Slope Sites

Field Engineer: George R. Gardner (Shannon & Wilson, Inc.)

Weather Conditions:

90 °F, wind 5 knots out of the West, clear and sunny.

Observations/Comments:

Personnel on Site: William Zimmerman, Corey Prior, & Ken Linck (E.P. Johnson); Paul Ching & Claude Huckins (Corps)

Equipment on Site: Chevrolet ¾-ton pickup w/trailer & Kawasaki Mule 2510 ATV.

SAMPLES COLLECTED

| Sample Number | Sample Location | Type | Comment |
|---------------|-----------------|------|---------|
| NONE | | | |

Work Performed:

Field Engineer arrived on site (PSN 80) at 0630 hours July 29, 1994. Claude Huckins from Hanford Resident Office of the Walla Walla District and Bill Zimmerman of E.P. Johnson had left the site to start a tour of the sites listed in the scope of work of this task order. Field Engineer and Paul Ching joined the tour at PSN 01 and all spent the rest of the day walking down the sites. Of particular interest was the Stock Tank and the PSN 12/14 sites. Corey Prior and Ken Linck of E.P. Johnson arrived at 0530 hours. A safety meeting was held and the work scheduled for the day was discussed. During the safety meeting the Site Health and Safety Plan was reviewed and signed. The E.P. Johnson personnel stockpiled wooden construction materials, fencing wire, bottles, cans, concrete culvert, and concrete block from the PSN 80 site. Corey and Ken found a run of commo wire from H-83-L to H-83-C and removed it and stockpiled it along the road. All personnel then left the site at 1430 hours and Claude Huckins locked the gate.

Field Analysis Performed: (Instrument checks, Calibration)

None.

Problems Encountered/Corrective Actions: (Specify Sampling Problems, Alternative Methods Used and any Deviation From Planned Activities)

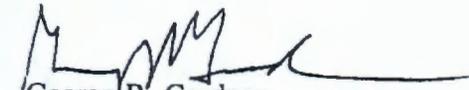
Daily QA Report

Date: July 29, 1994

Quality Control Activities Conducted:

Levels of Personnel Protection Used During Field Work:

Field engineer and workers were in Level D for all trash removal.



George R. Gardner
Senior Environmental Engineer

Daily QA Report

Date: August 1, 1994

Project Name: Hanford North Slope Cleanup, Phase 2

Project Number: V-0307-01

Project Location: Hanford North Slope Sites

Field Engineer: George R. Gardner, Shannon & Wilson, Inc.

Weather Conditions:

85 °F, wind 8 knots out of the West, clear and sunny.

Observations/Comments:

Personnel on Site: William Zimmerman, Klint Johnson, Corey Prfor, & Ken Linck (E.P. Johnson); Paul Ching (Corps)

Equipment on Site: IH S1900 Dump Truck, Chevrolet ¼-ton pickup w/trailer, & Kawasaki Mule 2510 ATV.

SAMPLES COLLECTED

| Sample Number | Sample Location | Type | Comment |
|---------------|-----------------|------|---------|
| NONE | | | |

Work Performed:

Field Engineer arrived on site (PSN 80) at 0610 hours August 1, 1994. Paul Ching from Hanford Resident Office of the Walla Walla District and Bill Zimmerman, Klint Johnson, Corey Prior, and Ken Linck of E.P. Johnson arrived at 0530 hours. A safety meeting was held and the work scheduled for the day was discussed. During the safety meeting the Site Health and Safety Plan was reviewed and signed. The E.P. Johnson personnel loaded the truck with wooden construction materials, fencing wire, bottles, cans, and commo wire from the PSN 80 site. At 0715 hours, the truck was full and Ken took the first load to the DOE Central Landfill. Klint and Corey hauled several loads with the mule and stockpiled them. At 0905 the truck returned to the PSN 80 site and loaded the stockpiled concrete culvert and concrete block. At 1020 hours, the truck is loaded with concrete and Ken took the load to the Concrete Recycling Facility. Paul Ching went along. Corey and Klint continued hauling commo wire, fencing and tin cans and stockpiled it along the road. Klint and Corey mobilized to PSN 90 at 1100 hours and PSN 80 was cleaned up with the exception of the commo wire, fencing and tin cans previously stockpiled. All personnel then left the site at 1430 hours.

Field Analysis Performed: (Instrument checks, Calibration)

None.

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Date: August 1, 1994

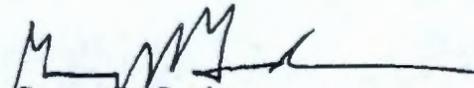
Problems Encountered/Corrective Actions: (Specify Sampling Problems, Alternative Methods Used and any Deviation From Planned Activities)

During the stockpiling of the debris, E.P. Johnson flagged several items that were outside their scope of work: 2 used oil filters and a pressure treated fence post which they marked.

Quality Control Activities Conducted:

Levels of Personnel Protection Used During Field Work:

Field engineer and workers were in Level D for all trash removal.



George R. Gardner
Senior Environmental Engineer

Daily QA Report

Date: August 2, 1994

Project Name: Hanford North Slope Cleanup, Phase 2

Project Number: V-0307-01

Project Location: Hanford North Slope Sites

Field Engineer: George R. Gardner, Shannon & Wilson, Inc.

Weather Conditions:

95 °F, wind 8 knots out of the West, smokey haze and sunny.

Observations/Comments:

Personnel on Site: William Zimmerman, Klint Johnson, Corey Prior, & Ken Linck (E.P. Johnson); Paul Ching (Corps)

Equipment on Site: IH S1900 Dump Truck, ¼-ton pickup w/trailer, & Kawasaki Mule 2510 ATV.

SAMPLES COLLECTED

| Sample Number | Sample Location | Type | Comment |
|---------------|-----------------|------|---------|
| NONE | | | |

Work Performed:

Field Engineer arrived on site (PSN 90) at 0610 hours August 2, 1994. Paul Ching from Hanford Resident Office of the Walla Walla District and Bill Zimmerman, Klint Johnson, Corey Prior, and Ken Linck of E.P. Johnson arrived at 0530 hours. A safety meeting was held and the work scheduled for the day was discussed. During the safety meeting the Site Health and Safety Plan was reviewed and signed. The E.P. Johnson personnel loaded the truck with wooden construction materials, fencing wire, bottles, cans, and commo wire from the PSN 80 site and the material stockpiled at the PSN 90 site. At 0700 hours, the truck was full and Ken took the first load to the DOE Central Landfill. Klint and Corey hauled several loads with the mule and stockpiled them. At 0905 the truck returned to the PSN 90 site and loaded the stockpiled metal roofing, timbers, bottles, cans, and sand bags. At 0945 hours, the truck is loaded with the trash and Ken took the load to the DOE CLF. Paul Ching went along. Corey and Klint continued hauling barbed wire fencing, fence post, aluminum siding, and tin cans and stockpiled it along the road. At 1105 the truck returned to the PSN 90 site and loaded the stockpiled barbed wire fencing, fence post, aluminum siding, and tin cans. At 1125 hours, the truck is loaded with the trash and Ken took the load to the DOE CLF. Corey, Bill, and Klint continued hauling barbed wire fencing, fence post, aluminum siding, and tin cans and stockpiled it along the road. At 1252 the truck returned to the PSN 90 site and loaded the stockpiled barbed wire fencing, fence post, aluminum siding, and tin cans. At 1310 hours, the truck is loaded and Ken took the load to the DOE CLF and then to Pasco. Corey, Bill, and Klint continued hauling barbed wire fencing, fence post, wooden construction material, and tin cans and stockpiled it along the road. All personnel then left the site at 1430 hours.

Daily QA Report

Date: August 2, 1994

Field Analysis Performed: (Instrument checks, Calibration)

None.

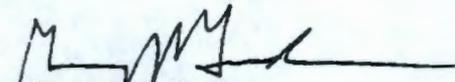
Problems Encountered/Corrective Actions: (Specify Sampling Problems, Alternative Methods Used and any Deviation From Planned Activities)

During the stockpiling of the debris, E.P. Johnson flagged several items that were outside their scope of work: a transmission casing and piece of asbestos pipe which they marked.

Quality Control Activities Conducted:

Levels of Personnel Protection Used During Field Work:

Field engineer and workers were in Level D for all trash removal.


George R. Gardner
Senior Environmental Engineer

Daily QA Report

Date: August 3, 1994

Project Name: Hanford North Slope Cleanup, Phase 2

Project Number: V-0307-01

Project Location: Hanford North Slope Sites

Field Engineer: George R. Gardner, Shannon & Wilson, Inc.

Weather Conditions:

95 °F, wind 8 knots out of the West, and sunny.

Observations/Comments:

Personnel on Site: William Zimmerman, Corey Prior, & Ken Linck (E.P. Johnson); Paul Ching & Claude Huckins (Corps)

Equipment on Site: IH S1900 Dump Truck, Chevrolet ¼-ton pickup w/trailer, & Kawasaki Mule 2510 ATV.

SAMPLES COLLECTED

| Sample Number | Sample Location | Type | Comment |
|---------------|-----------------|------|---------|
| NONE | | | |

Work Performed:

Field Engineer arrived on site (PSN 90) at 0600 hours August 3, 1994. Claude Huckins from Hanford Resident Office of the Walla Walla District and Bill Zimmerman, Corey Prior, and Ken Linck of E.P. Johnson arrived at 0530 hours. A safety meeting was held and the work scheduled for the day was discussed. During the safety meeting the Site Health and Safety Plan was reviewed and field log was signed. The E.P. Johnson personnel loaded the truck with wooden construction materials, fencing wire, bottles, cans, and fence posts from the PSN 90 site. At 0800 hours, the truck was full and Ken took the first load to the DOE CLF. Bill and Corey moved to WSDOT Pit 47 site and began stockpiling wooden construction material and wire. At 1000 the truck returned to the Pit 47 site and loaded the stockpiled timbers, and wire. At 1145 hours, the truck is loaded with the trash and Ken took the load to the DOE CLF. Paul Ching went along. Bill and Corey moved to the Pit 56 site and collected barbed wire fencing, fence posts, commo wire, and tin cans and stockpiled it along the road. All personnel then left the site at 1430 hours.

Field Analysis Performed: (Instrument checks, Calibration)

None.

Problems Encountered/Corrective Actions: (Specify Sampling Problems, Alternative Methods Used and any Deviation From Planned Activities)

During the stockpiling of the debris, E.P. Johnson flagged several items that were outside their scope of work: a treated 4"x4" timber and a grease can.

Daily QA Report

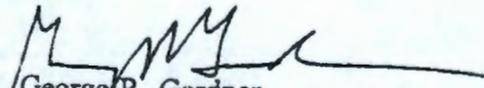
Date: August 3, 1994

Quality Control Activities Conducted:

Received word to fill in small pit at the WSDOT Pit 47 site that contained cans, bottles, and cable.

Levels of Personnel Protection Used During Field Work:

Field engineer and workers were in Level D for all trash removal.


George R. Gardner
Senior Environmental Engineer

Daily QA Report

Date: August 4, 1994

Project Name: Hanford North Slope Cleanup, Phase 2

Project Number: V-0307-01

Project Location: Hanford North Slope Sites

Field Engineer: George R. Gardner, Shannon & Wilson, Inc.

Weather Conditions:

95 °F, wind 8 knots out of the West, and sunny.

Observations/Comments:

Personnel on Site: William Zimmerman, Corey Prior, & Ken Linck (E.P. Johnson); Claude Huckins (Corps)

Equipment on Site: IH S1900 Dump Truck, Chevrolet ¾-ton pickup w/trailer, & Kawasaki Mule 2510 ATV.

SAMPLES COLLECTED

| Sample Number | Sample Location | Type | Comment |
|---------------|-----------------|------|---------|
| NONE | | | |

Work Performed:

Field Engineer arrived on site (Asphalt Batch Plant) at 0610 hours August 4, 1994. Claude Huckins from Hanford Resident Office of the Walla Walla District and Bill Zimmerman, Corey Prior, and Ken Linck of E.P. Johnson arrived at 0530 hours. A safety meeting was held and the work scheduled for the day was discussed. During the safety meeting the Site Health and Safety Plan was reviewed and field log was signed. The E.P. Johnson personnel loaded the truck with wooden construction materials, fencing wire, bottles, and cans from the Asphalt Batch Plant site. At 0800 hours, the truck was full and Ken took the first load to the DOE CLF. Bill and Corey hauled several loads with the mule from Pit 56 and stockpiled them. At 0935 the truck returned to the Pit 56 site and loaded the stockpiled timbers, bottles, cans, and commo wire. At 1135 hours, the truck is loaded and Ken took the load to the DOE CLF. Bill and Corey continued hauling barbed wire fencing, fence post, and tin cans and stockpiled it along the road. At 1245 the Mule had a flat tire and Bill and Corey left the site at 1300 hours.

Field Analysis Performed: (Instrument checks, Calibration)

None.

Problems Encountered/Corrective Actions: (Specify Sampling Problems, Alternative Methods Used and any Deviation From Planned Activities)

During the stockpiling of the debris, E.P. Johnson flagged several items that were outside their scope of work: at Asphalt Batch Plant Site - 2 oil filters and several pieces of treated timber and at Pit 56 - a 5-gallon oil can full of dead beetles (possible herbicide/insecticide) and two 5-gallon oil cans with liquid.

Daily QA Report

Date: August 4, 1994

Quality Control Activities Conducted:

Both the Pit 56 and Asphalt Batch Plant sites are clean.

Levels of Personnel Protection Used During Field Work:

Field engineer and workers were in Level D for all trash removal.



George R. Gardner
Senior Environmental Engineer

Daily QA Report

Date: August 5, 1994

Project Name: Hanford North Slope Cleanup, Phase 2

Project Number: V-0307-01

Project Location: Hanford North Slope Sites

Field Engineer: George R. Gardner, Shannon & Wilson, Inc.

Weather Conditions:

95 °F, wind 8 knots out of the West, and sunny.

Observations/Comments:

Personnel on Site: Bill Zimmerman & Corey Prior (E.P. Johnson); Paul Ching, Claude Huckins, & Bill Jennings (Corps)

Equipment on Site: Chevrolet ¼-ton pickup w/trailer, & Kawasaki Mule 2510 ATV.

SAMPLES COLLECTED

| Sample Number | Sample Location | Type | Comment |
|---------------|-----------------|------|---------|
| NONE | | | |

Work Performed:

Field Engineer arrived on site (H-06-L) at 0700 hours August 5, 1994. Claude Huckins from Hanford Resident Office of the Walla Walla District and Bill Zimmerman and Corey Prior of E.P. Johnson arrived at 0530 hours. A safety meeting was held and the work scheduled for the day was discussed. During the safety meeting the Site Health and Safety Plan was reviewed and signed. The E.P. Johnson personnel stockpiled 2 wooden fence posts and fencing wire at the PSN 72/82 and commo wire at the Pit 56 site. At 0700 hours, Bill and Corey hauled loads with the mule and stockpiled them at H-06-L Site. These activities continued all day. All personnel then left the site at 1430 hours.

Field Analysis Performed: (Instrument checks, Calibration)

None.

Problems Encountered/Corrective Actions: (Specify Sampling Problems, Alternative Methods Used and any Deviation From Planned Activities)

During the stockpiling of the debris, E.P. Johnson flagged several items that were outside their scope of work: 5 paint cans (red, green {2}, yellow, and white) and a 4"x4" treated timber.

Quality Control Activities Conducted:

Work at PSN 72/82 and Pit 56 were in response to comments from DOE site walk down conducted on August 4, 1994.

Daily QA Report

Date: August 5, 1994

Levels of Personnel Protection Used During Field Work:
Field engineer and workers were in Level D for all trash removal.



George R. Gardner
Senior Environmental Engineer

Daily QA Report

Date: August 8, 1994

Project Name: Hanford North Slope Cleanup, Phase 2

Project Number: V-0307-01

Project Location: Hanford North Slope Sites

Field Engineer: George R. Gardner, Shannon & Wilson, Inc.

Weather Conditions:

85 °F, wind 7-15 knots out of the West, haze and sunny.

Observations/Comments:

Personnel on Site: William Zimmerman, Klint Johnson, Corey Prior, & Ken Linck (E.P. Johnson); Paul Ching, Claude Huckins, & Bill Jennings (Corps)

Equipment on Site: IH S1900 Dump Truck w/trailer, Ford 555D Backhoe, Chevrolet ¼-ton pickup w/trailer, & Kawasaki Mule 2510 ATV.

SAMPLES COLLECTED

| Sample Number | Sample Location | Type | Comment |
|---------------|-----------------|------|---------|
| NONE | | | |

Work Performed:

Field Engineer arrived on site (H-06-L) at 0600 hours August 8, 1994. Claude Huckins from Hanford Resident Office of the Walla Walla District and Bill Zimmerman, Klint Johnson, Corey Prior, and Ken Linck of E.P. Johnson arrived at WSDOT Pit 47 site at 0530 hours. A safety meeting was held and the work scheduled for the day was discussed. During the safety meeting the Site Health and Safety Plan was reviewed and field log was signed. The E.P. Johnson personnel backfilled the pit at Pit 47 with the backhoe and moved to PSN 90. Field engineer and backhoe operator buried concrete at PSN 90. At 0850 hours, the truck was full and Ken took the first load to the DOE CLF. Bill and Corey hauled several loads at H-06-L with the mule and stockpiled them. At 1100 hours, the truck returned to the H-06-L site and loaded the stockpiled metal roofing, timbers, bottles, cans, and sand bags. At 1100 hours, the truck was full and Klint started stockpiling the concrete. The truck is loaded by 1135 and Ken took the load to the DOE CLF. Corey and Bill continued hauling barbed wire fencing, fence posts, tin cans, and bottles and stockpiled it along the road. At 1300 hours, all personnel left the site.

Field Analysis Performed: (Instrument checks, Calibration)

None.

Problems Encountered/Corrective Actions: (Specify Sampling Problems, Alternative Methods Used and any Deviation From Planned Activities)

Daily QA Report

Date: August 8, 1994

Quality Control Activities Conducted:

Levels of Personnel Protection Used During Field Work:
Field engineer and workers were in Level D for all trash removal.



George R. Gardner
Senior Environmental Engineer

Daily QA Report

Date: August 9, 1994

Project Name: Hanford North Slope Cleanup, Phase 2

Project Number: V-0307-01

Project Location: Hanford North Slope Sites

Field Engineer: George R. Gardner, Shannon & Wilson, Inc.

Weather Conditions:

95 °F, wind 8 knots out of the West, and sunny.

Observations/Comments:

Personnel on Site: William Zimmerman, Corey Prior, & Ken Linck (E.P. Johnson); Paul Ching (Corps)

Equipment on Site: IH S1900 Dump Truck, Chevrolet ¾-ton pickup w/trailer, & Kawasaki Mule 2510 ATV.

SAMPLES COLLECTED

| Sample Number | Sample Location | Type | Comment |
|---------------|-----------------|------|---------|
| NONE | | | |

Work Performed:

Field Engineer arrived on site (H-83-L) at 0700 hours August 9, 1994. Paul Ching from Hanford Resident Office of the Walla Walla District and Bill Zimmerman, Corey Prior, and Ken Linck of E.P. Johnson had arrived at 0530 hours. A safety meeting was held and the work scheduled for the day was discussed. During the safety meeting the Site Health and Safety Plan was reviewed and daily log was signed. The E.P. Johnson personnel loaded the truck with wooden construction materials, fencing wire, bottles, cans, and metal siding from the material stockpiled at the PSN 90 site using the backhoe on August 8. At 0730 hours, the truck was full and Ken took the first load to the DOE CLF. Bill and Corey used a hot saw and the mule to cut off rebar and guy wires at PSN 90, H-83-C, H-83-L, and PSN 80. At 0905 the truck returned to the PSN 80 site and loaded the stockpiled rebar, guy wires, bottles, and cans. At 1145 hours, the truck is loaded and Ken took the load to the DOE CLF the headed to Pasco. Bill and Corey continued hauling barbed wire fencing, fence post, aluminum siding, and tin cans and stockpiled it along the road at PSN 04. At 1300, all personnel left the site.

Field Analysis Performed: (Instrument checks, Calibration)

None.

Problems Encountered/Corrective Actions: (Specify Sampling Problems, Alternative Methods Used and any Deviation From Planned Activities)

Daily QA Report

Date: August 9, 1994

Quality Control Activities Conducted:

Levels of Personnel Protection Used During Field Work:

Field engineer and workers were in Level D for all trash removal.



George R. Gardner
Senior Environmental Engineer

Daily QA Report

Date: August 10, 1994

Project Name: Hanford North Slope Cleanup, Phase 2

Project Number: V-0307-01

Project Location: Hanford North Slope Sites

Field Engineer: George R. Gardner, Shannon & Wilson, Inc.

Weather Conditions:

85 °F, wind 15-20 knots out of the West, and sunny.

Observations/Comments:

Personnel on Site: William Zimmerman, Corey Prior, & Ken Linck (E.P. Johnson); Paul Ching (Corps)

Equipment on Site: IH S1900 Dump Truck, Chevrolet ¼-ton pickup w/trailer, & Kawasaki Mule 2510 ATV.

SAMPLES COLLECTED

| Sample Number | Sample Location | Type | Comment |
|---------------|-----------------|------|---------|
| NONE | | | |

Work Performed:

Field Engineer arrived on site (PSN 04) at 0700 hours August 10, 1994. Paul Ching from Hanford Resident Office of the Walla Walla District and Bill Zimmerman, Corey Prior, and Ken Linck of E.P. Johnson arrived at 0530 hours. A safety meeting had been held and the work scheduled for the day discussed. During the safety meeting the Site Health and Safety Plan was reviewed and field log was signed. The E.P. Johnson personnel loaded the truck with wooden construction materials, fencing wire, bottles, cans, and commo wire from the PSN 04 site. At 1200 hours, the truck was full and Ken took the load to the DOE CLF, he continued on to the Pasco office. Bill and Corey hauled several loads with the mule and stockpiled them, including tires, wire, bottles and cans. All personnel then left the site at 1230 hours.

Field Analysis Performed: (Instrument checks, Calibration)
None.

Problems Encountered/Corrective Actions: (Specify Sampling Problems, Alternative Methods Used and any Deviation From Planned Activities)

During the stockpiling of the debris, E.P. Johnson flagged several items that were outside their scope of work: a crushed 55-gallon oil can w/residue and stained soil; 3 florescent light fixtures with ballasts; 6 asbestos lined brake shoes; an auto battery; and an oil filter.

Daily QA Report

Date: August 10, 1994

Quality Control Activities Conducted:

Levels of Personnel Protection Used During Field Work:

Field engineer and workers were in Level D for all trash removal.



George R. Gardner
Senior Environmental Engineer

Daily QA Report

Date: August 11, 1994

Project Name: Hanford North Slope Cleanup, Phase 2

Project Number: V-0307-01

Project Location: Hanford North Slope Sites

Field Engineer: George R. Gardner, Shannon & Wilson, Inc.

Weather Conditions:

95 °F, wind 8 knots out of the West, sunny.

Observations/Comments:

Personnel on Site: William Zimmerman, Klint Johnson, Corey Prior, & Ken Linck (E.P. Johnson); Paul Ching (Corps)

Equipment on Site: IH S1900 Dump Truck w/trailer, John Deere 190E Trackhoe, Chevrolet ¼-ton pickup w/trailer, & Kawasaki Mule 2510 ATV.

SAMPLES COLLECTED

| Sample Number | Sample Location | Type | Comment |
|---------------|-----------------|------|---------|
| NONE | | | |

Work Performed:

Field Engineer arrived on site (H-83-L) at 0630 hours August 11, 1994. Paul Ching from Hanford Resident Office of the Walla Walla District and Klint Johnson and Ken Linck of E.P. Johnson were on site. A safety meeting had been held and the work scheduled for the day had been discussed at 0530 hours. During the safety meeting the Site Health and Safety Plan was reviewed and field log was signed. The E.P. Johnson personnel using the JD 190E were excavating an old bunker and then placing the three concrete bollards that remained on this site from Phase I in the excavation and backfilling it. When this was complete, the dump truck w/trailer and JD 190E moved to PSN 90 and loaded the truck with concrete debris. At 1100 hours, the truck was full and Ken took the load to the DOE Concrete Recycling Facility. Paul Ching went along. Bill and Corey (at PSN 04) hauled several loads with the mule and stockpiled them. The stockpiled material included metal pipe, timbers, bottles, cans, and wire fencing (mesh and Barbed). At 1315 hours, the truck returned and the crew moved the equipment back to Pasco. All personnel then left the site at 1330 hours.

Field Analysis Performed: (Instrument checks, Calibration)

None.

Problems Encountered/Corrective Actions: (Specify Sampling Problems, Alternative Methods Used and any Deviation From Planned Activities)

Daily QA Report

Date: August 11, 1994

Quality Control Activities Conducted:

Levels of Personnel Protection Used During Field Work:

Field engineer and workers were in Level D for all trash removal.



George R. Gardner
Senior Environmental Engineer

Daily QA Report

Date: August 16, 1994

Project Name: Hanford North Slope Cleanup, Phase 2

Project Number: V-0307-01

Project Location: Hanford North Slope Sites

Field Engineer: George R. Gardner, Shannon & Wilson, Inc.

Weather Conditions:

95 °F. wind 8 knots out of the West, sunny.

Observations/Comments:

Personnel on Site: William Zimmerman, Klint Johnson, Corey Prior, & Ken Linck (E.P. Johnson); Paul Ching (Corps); Joe Kriete (Grant County Deputy Sheriff)

Equipment on Site: IH S1900 Dump Truck w/trailer, John Deere 190E Trackhoe, & Chevrolet ¾-ton pickup.

SAMPLES COLLECTED

| Sample Number | Sample Location | Type | Comment |
|---------------|-----------------|------|---------|
| NONE | | | |

Work Performed:

Field Engineer arrived on site (H-06-L) at 0700 hours August 16, 1994. Paul Ching from Hanford Resident Office of the Walla Walla District and Bill Zimmerman, Corey Prior, Klint Johnson, and Ken Linck of E.P. Johnson were on site. Joe Kriete, Deputy Sheriff (Grant County) was also on site to provide security after E.P. Johnson and the Corps received threats from an individual on August 12, 1994. A safety meeting had been held and the work scheduled for the day had been discussed at 0630 hours. During the safety meeting the Site Health and Safety Plan was reviewed and field log was signed. The E.P. Johnson personnel using the JD 190E were loading concrete from H-06-L. When this was complete, the dump truck with the concrete debris departed for the Concrete Recycling Facility (0850 hours). At 1100 hours, the truck returned and Klint and Ken took the load to the DOE Concrete Recycling Facility at 1230 hours. Bill and Corey (at PSN 07/10) marked loads for the mule and flagged them. The flagged material included metal pipe, timbers, bottles, cans, and wire fencing (mesh and Barbed). All personnel then left the site at 1330 hours.

Field Analysis Performed: (Instrument checks, Calibration)

None.

Problems Encountered/Corrective Actions: (Specify Sampling Problems, Alternative Methods Used and any Deviation From Planned Activities)

On August 15, 1994, the E.P Johnson crew along with a Grant County Deputy Sheriff assembled at PSN 90 and loaded the concrete that remained there and transported it to the DOE Concrete Recycling Facility.

Daily QA Report

Date: August 16, 1994

Quality Control Activities Conducted:

Levels of Personnel Protection Used During Field Work:

Field engineer and workers were in Level D for all trash removal.



George R. Gardner
Senior Environmental Engineer

Daily QA Report

Date: August 17, 1994

Project Name: Hanford North Slope Cleanup, Phase 2

Project Number: V-0307-01

Project Location: Hanford North Slope Sites

Field Engineer: George R. Gardner, Shannon & Wilson, Inc.

Weather Conditions:

85 °F, wind 8 knots out of the West, sunny

Observations/Comments:

Personnel on Site: William Zimmerman, Klint Johnson, Corey Prior, & Ken Linck (E.P. Johnson); Paul Ching (Corps); Joe Kriete (Grant County Deputy Sheriff)

Equipment on Site: IH S1900 Dump Truck w/trailer, John Deere 190E Trackhoe, Chevrolet ¾-ton pickup w/trailer, & Kawasaki Mule 2510 ATV.

SAMPLES COLLECTED

| Sample Number | Sample Location | Type | Comment |
|---------------|-----------------|------|---------|
| NONE | | | |

Work Performed:

Field Engineer arrived on site (PSN 07/10) at 0700 hours August 17, 1994. Paul Ching from Hanford Resident Office of the Walla Walla District and Bill Zimmerman, Corey Prior, Klint Johnson, and Ken Linck of E.P. Johnson were on site. A safety meeting had been held and the work scheduled for the day had been discussed at 0530 hours. During the safety meeting the Site Health and Safety Plan was reviewed and field log was signed. Joe Kriete, a Deputy Sheriff from Grant County was also present. The E.P. Johnson personnel using the JD 190E were loading concrete into the dump truck. When this was complete (1040 hours), Klint and Ken took the load to the DOE Concrete Recycling Facility. Bill and Corey hauled numerous loads with the mule and stockpiled them. The stockpiled material included metal pipe, timbers, bottles, cans, and wire fencing (mesh and barbed). At 1300 hours, the truck returned to PSN 04 and loaded the trash that remained there and the dump truck headed for the CLF at 1330. All personnel then left the site at 1430 hours.

Field Analysis Performed: (Instrument checks, Calibration)

None.

Problems Encountered/Corrective Actions: (Specify Sampling Problems, Alternative Methods Used and any Deviation From Planned Activities)

At approximately 1000 hours, Ken Linck of E.P. Johnson discovered two open plastic bags with syringes inside. Joe Kriete, Deputy Sheriff, Grant County (who was on site for security reason) picked up the bags and syringes and secured them in an evidence bag for disposal at his office.

Daily QA Report

Date: August 17, 1994

Quality Control Activities Conducted:

Levels of Personnel Protection Used During Field Work:

Field engineer and workers were in Level D for all trash removal.



George R. Gardner
Senior Environmental Engineer

Daily QA Report

Date: August 18, 1994

Project Name: Hanford North Slope Cleanup, Phase 2

Project Number: V-0307-01

Project Location: Hanford North Slope Sites

Field Engineer: George R. Gardner, Shannon & Wilson, Inc.

Weather Conditions:

85 °F, wind 8 knots out of the West, sunny.

Observations/Comments:

Personnel on Site: William Zimmerman, Klint Johnson, Corey Prior, & Ken Linck (E.P. Johnson); Paul Ching (Corps); Rick Canterbury (Grant County Deputy Sheriff)

Equipment on Site: IH S1900 Dump Truck w/trailer, John Deere 190E Trackhoe, Chevrolet ¾-ton pickup w/trailer, & Kawasaki Mule 2510 ATV.

SAMPLES COLLECTED

| Sample Number | Sample Location | Type | Comment |
|---------------|-----------------|------|---------|
| NONE | | | |

Work Performed:

Field Engineer arrived on site (PSN 07/10) at 0730 hours August 18, 1994. Paul Ching from Hanford Resident Office of the Walla Walla District and Bill Zimmerman, Corey Prior, Klint Johnson and Ken Linck of E.P. Johnson were on site. Rick Canterbury a Deputy Sheriff from Grant County was also on site. A safety meeting had been held and the work scheduled for the day had been discussed at 0630 hours. During the safety meeting the Site Health and Safety Plan was reviewed and field log was signed. Klint and Ken made a run to the CLF as soon as they loaded some of the wooden construction material stockpiled at PSN 07/10. They had stopped at the CLF at 1400 hours on August 17, 1994 and found it closed. The E.P. Johnson personnel (Bill and Corey) left for a reconnaissance to Homestead Cistern, Stock Tank and Well Site, Wagon Road Cistern and Overlook Cistern to verify the quantities of gravel backfill required. They returned to PSN 07/10 at 0900 and started stockpiling trash (tent, fence posts, barbed wire, bottles/cans, metal siding, stove pipe, and wooden construction material). At 1015 hours, Klint and Ken returned from the CLF and started loading concrete using the JD 190E trackhoe. At 1215 hours, the truck was full and Ken took the load to the DOE Concrete Recycling Facility. Bill and Corey (at PSN 07/10) continued to haul loads with the mule and stockpile them. At 1400 Bill and Corey left the site for Pasco. Klint and Ken returned and picked up the trailer and also left.

Field Analysis Performed: (Instrument checks, Calibration)

None.

Daily QA Report

Date: August 18, 1994

Problems Encountered/Corrective Actions: (Specify Sampling Problems, Alternative Methods Used and any Deviation From Planned Activities)

During the stockpiling of the debris, E.P. Johnson flagged several items that were outside their scope of work: two treated timbers and an oil filter.

Quality Control Activities Conducted:

Levels of Personnel Protection Used During Field Work:

Field engineer and workers were in Level D for all trash removal.


George R. Gardner
Senior Environmental Engineer

Daily QA Report

Date: August 24, 1994

Project Name: Hanford North Slope Cleanup, Phase 2

Project Number: V-0307-01

Project Location: Hanford North Slope Sites

Field Engineer: George R. Gardner, Shannon & Wilson, Inc.

Weather Conditions:

85 °F, wind 8 knots out of the West, sunny.

Observations/Comments:

Personnel on Site: William Zimmerman, Klint Johnson, Corey Prior, Ken Linck, Larry Schouten, Tina Westermeyer, & Dale Cadieu (E.P. Johnson); Paul Ching, Claude Huckins, & Bill Jennings (Corps); Joe Kriete (Grant County Deputy Sheriff)

Equipment on Site: IH S1900 Dump Truck w/trailer, Case 590 Backhoe, John Deere 190E Trackhoe, Chevrolet ¾-ton pickup w/trailer, Kawasaki Mule 2510 ATV, & Ford ¾-ton pickup.

SAMPLES COLLECTED

| Sample Number | Sample Location | Type | Comment |
|---------------|-----------------|------|---------|
| NONE | | | |

Work Performed:

Field Engineer arrived on site (H-12-L) at 1230 hours August 24, 1994. Paul Ching, Claude Huckins, and Bill Jennings from Hanford Resident Office of the Walla Walla District and Bill Zimmerman, Corey Prior, Klint Johnson, Ken Linck, Larry Schouten, Tina Westermeyer, and Dale Cadieu of E.P. Johnson were on site. Joe Kriete, a Deputy Sheriff from Grant County, was also on site. A safety meeting had been held and the work scheduled for the day had been discussed at 0630 hours. During the safety meeting the Site Health and Safety Plan was reviewed and field log was signed. Klint and Ken made a run to the CLF as soon as they loaded some of the wooden construction material, barbed wire, commo wire, bottles, and cans stockpiled at H-12-L. Larry and Dale hauled 5 loads of gravel backfill from the H-12-L site to the Overlook Cistern (at approximately 8 cubic yards per load) cistern is now two thirds full. Tina and Bill stockpiling trash (fence posts, barbed wire, bottles/cans, metal siding, stove pipe, and wooden construction material). At 1015 hours, Klint and Ken returned from the CLF and started loading concrete using the JD 190E trackhoe. At 1215 hours, the truck was full and Ken and Corey took the load to the DOE Concrete Recycling Facility. Bill, Tina, and Klint (at H-12-L) continued to haul loads with the mule and stockpile them. At 1400 Bill and Corey left the site for Pasco. Klint and Ken moved the trackhoe up to PSN 12/14 and also left. Larry, Tina, and Dale headed for Pasco after the 5th load to the Overlook Cistern.

Daily QA Report

Date: August 24, 1994

Field Analysis Performed: (Instrument checks, Calibration)
None.

Problems Encountered/Corrective Actions: (Specify Sampling Problems, Alternative Methods Used and any Deviation From Planned Activities)

During the stockpiling of the debris, E.P. Johnson flagged several items that were outside their scope of work: two treated timbers and an oil filter.

Quality Control Activities Conducted:

Levels of Personnel Protection Used During Field Work:

Field engineer and workers were in Level D for all trash removal.


George R. Gardner
Senior Environmental Engineer

Daily QA Report

Date: August 25, 1994

Project Name: Hanford North Slope Cleanup, Phase 2

Project Number: V-0307-01

Project Location: Hanford North Slope Sites

Field Engineer: George R. Gardner, Shannon & Wilson, Inc.

Weather Conditions:

85 °F, wind 8 knots out of the West, sunny.

Observations/Comments:

Personnel on Site: William Zimmerman, Klint Johnson, Corey Prior, Ken Linck, Larry Schouten, Tina Westermeyer, & Dale Cadieu (E.P. Johnson); Paul Ching, Claude Huckins, & Bill Jennings (Corps); Rick Canterbury (Grant County Deputy Sheriff)

Equipment on Site: IH S1900 Dump Truck w/trailer, Case 590 Backhoe, John Deere 190E Trackhoe, Chevrolet ¾-ton pickup w/trailer, Kawasaki Mule 2510 ATV, & Ford ¾-ton pickup.

SAMPLES COLLECTED

| Sample Number | Sample Location | Type | Comment |
|---------------|-----------------|------|---------|
| NONE | | | |

Work Performed:

Field Engineer arrived on site (H-12-C) at 0630 hours August 25, 1994. Paul Ching, Claude Huckins, and Bill Jennings from Hanford Resident Office of the Walla Walla District and Bill Zimmerman, Corey Prior, Klint Johnson, Ken Linck, Larry Schouten, Tina Westermeyer, and Dale Cadieu of E.P. Johnson were on site. Rick Canterbury, a Deputy Sheriff from Grant County, was also on site. A safety meeting had been held and the work scheduled for the day had been discussed at 0630 hours. During the safety meeting the Site Health and Safety Plan was reviewed and field log was signed. Klint and Ken loaded concrete using the JD 190E Trackhoe from H-06-C and PSN 12/14. Larry, Tina, and Dale hauled 6 loads of gravel backfill (with the Case 590 Backhoe) from the stockpile at the PSN 12/14 site to the Stock Tank and Well Cistern (at approximately 1 cubic yards per load) cistern is now one third full. Corey and Bill stockpiling trash (fence posts, barbed wire, bottles/cans, metal siding, stove pipe, and wooden construction material). At 0900 hours, Ken hauled the stockpiled trash to the CLF. At 1215 hours, when the truck was full of concrete debris, Ken and Klint took the load to the DOE Concrete Recycling Facility. All personnel left the site at 1430 hours.

Field Analysis Performed: (Instrument checks, Calibration)

None.

Daily QA Report

Date: August 25, 1994

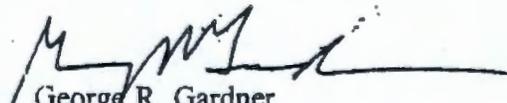
Problems Encountered/Corrective Actions: (Specify Sampling Problems, Alternative Methods Used and any Deviation From Planned Activities)

During the stockpiling of the debris, E.P. Johnson flagged several items that were outside their scope of work: numerous paint cans and treated 4"x4" timbers.

Quality Control Activities Conducted:

Levels of Personnel Protection Used During Field Work:

Field engineer and workers were in Level D for all trash removal.



George R. Gardner
Senior Environmental Engineer

Daily QA Report

Date: August 26, 1994

Project Name: Hanford North Slope Cleanup, Phase 2

Project Number: V-0307-01

Project Location: Hanford North Slope Sites

Field Engineer: George R. Gardner, Shannon & Wilson, Inc.

Weather Conditions:

85 °F, wind 8 knots out of the West, sunny

Observations/Comments:

Personnel on Site: William Zimmerman, Klint Johnson, Corey Prior, Ken Linck, Tina Westermeyer, & Dale Cadieu (E.P. Johnson); Paul Ching & Claude Huckins (Corps); Dave Taylor (Grant County Deputy Sheriff)

Equipment on Site: IH S1900 Dump Truck, IH S1900 Dump Truck w/trailer, Case 590 Backhoe, John Deere 190E Trackhoe, Chevrolet ¾-ton pickup w/trailer, Kawasaki Mule 2510 ATV, & Dodge ½-ton pickup.

SAMPLES COLLECTED

| Sample Number | Sample Location | Type | Comment |
|---------------|-----------------|------|---------|
| NONE | | | |

Work Performed:

Field Engineer arrived on site (PSN 12/14) at 0630 hours August 26, 1994. Paul Ching and Claude Huckins from Hanford Resident Office of the Walla Walla District and Bill Zimmerman, Corey Prior, Klint Johnson, Ken Linck, Tina Westermeyer, and Dale Cadieu of E.P. Johnson were on site. Dave Taylor, a Deputy Sheriff from Grant County, was also on site. A safety meeting had been held and the work scheduled for the day had been discussed at 0630 hours. During the safety meeting the Site Health and Safety Plan was reviewed and field log was signed. Tina and Dale hauled six loads of gravel backfill to the Stock Tank and Well Cistern with the Case 590 Backhoe (approximately one cubic yard per load) cistern is now two thirds full. Klint and Ken continued to load concrete in one dump truck with the JD 190E Trackhoe and took a load to the Concrete Recycling Facility at 1200. Bill and Corey stockpiled trash and took one load to the CLF. They left the site at 1200 hours. All other personnel left site at 1430 hours.

Field Analysis Performed: (Instrument checks, Calibration)

None.

Daily QA Report

Date: August 26, 1994

Problems Encountered/Corrective Actions: (Specify Sampling Problems, Alternative Methods Used and any Deviation From Planned Activities)

During the stockpiling of the debris, E.P. Johnson flagged several items that were outside their scope of work: two treated timbers and an oil filter.

Quality Control Activities Conducted:

Levels of Personnel Protection Used During Field Work:

Field engineer and workers were in Level D for all trash removal.



George R. Gardner
Senior Environmental Engineer

Daily QA Report

Date: August 29, 1994

Project Name: Hanford North Slope Cleanup, Phase 2

Project Number: V-0307-01

Project Location: Hanford North Slope Sites

Field Engineer: George R. Gardner, Shannon & Wilson, Inc.

Weather Conditions:

85 °F, wind 8 knots out of the West, sunny.

Observations/Comments:

Personnel on Site: Ken Linck, Larry Schouten, Tina Westermeyer, & Dale Cadieu (E.P. Johnson); Paul Ching & Claude Huckins (Corps)

Equipment on Site: IH S1900 Dump Truck, IH S1900 Dump Truck w/trailer, Case 590 Backhoe, John Deere 190E Trackhoe, Chevrolet ¼-ton pickup w/trailer, Kawasaki Mule 2510 ATV, & Ford ¼-ton pickup.

SAMPLES COLLECTED

| Sample Number | Sample Location | Type | Comment |
|---------------|-----------------|------|---------|
| NONE | | | |

Work Performed:

Field Engineer arrived on site (PSN 12/14) at 0630 hours August 29, 1994. Paul Ching and Claude Huckins from Hanford Resident Office of the Walla Walla District and Larry Schouten, Ken Linck, Tina Westermeyer, and Dale Cadieu of E.P. Johnson were on site. A safety meeting had been held and the work scheduled for the day had been discussed at 0630 hours. During the safety meeting the Site Health and Safety Plan was reviewed and field log was signed. Dale and Ken picked up concrete at PSN 12/14 and loaded it into the dump truck, they took a load to the dump at 1200 hours. Larry and Tina loaded trash (bottles, cans, wooden construction materials, and wire) into the second dump truck and hauled a load to the CLF.

Field Analysis Performed: (Instrument checks, Calibration)

None.

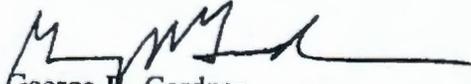
Problems Encountered/Corrective Actions: (Specify Sampling Problems, Alternative Methods Used and any Deviation From Planned Activities)

Quality Control Activities Conducted:

Daily QA Report

Date: August 29, 1994

Levels of Personnel Protection Used During Field Work:
Field engineer and workers were in Level D for all trash removal.



George K. Gardner
Senior Environmental Engineer

Daily QA Report

Date: August 30, 1994

Project Name: Hanford North Slope Cleanup, Phase 2

Project Number: V-0307-01

Project Location: Hanford North Slope Sites

Field Engineer: George R. Gardner, Shannon & Wilson, Inc.

Weather Conditions:

85 °F, wind 8 knots out of the West, sunny

Observations/Comments:

Personnel on Site: Klint Johnson, Corey Prior, Ken Linck, Larry Schouten, Tina Westermeyer, & Dale Cadieu (E.P. Johnson); Paul Ching, Claude Huckins, & Bill Jennings (Corps)

Equipment on Site: IH S1900 Dump Truck, IH S1900 Dump Truck w/trailer, Case 590 Backhoe, John Deere 190E Trackhoe, Chevrolet ¾-ton pickup w/trailer, Kawasaki Mule 2510 ATV, & Dodge ½-ton pickup.

SAMPLES COLLECTED

| Sample Number | Sample Location | Type | Comment |
|---------------|-----------------|------|---------|
| NONE | | | |

Work Performed:

Field Engineer arrived on site (PSN 12/14) at 0630 hours August 30, 1994. Paul Ching and Claude Huckins from Hanford Resident Office of the Walla Walla District and Corey Prior, Klint Johnson, Ken Linck, Larry Schouten, Tina Westermeyer, and Dale Cadieu of E.P. Johnson were on site. A safety meeting had been held and the work scheduled for the day had been discussed at 0630 hours. During the safety meeting the Site Health and Safety Plan was reviewed and field log was signed. Dale took loaded dump truck to CLF. Larry and Tina picked up trash along road between crossroads and PSN 12/14. Klint loaded concrete into the second dumptruck. Corey and Ken stockpiled trash including metal siding. At 1030, dump truck returned and Dale took second load to CLF. Ken took load of concrete to Concrete Recycling Facility. Corey and Klint found extensive new dump site approximately 1000 meters north of the well at PSN 12/14. All personnel left site at 1430 hours.

Field Analysis Performed: (Instrument checks, Calibration)

None.

Problems Encountered/Corrective Actions: (Specify Sampling Problems, Alternative Methods Used and any Deviation From Planned Activities)

During the stockpiling of the debris, E.P. Johnson flagged several items that were outside their scope of work: paint cans, oils filters and treated timbers..

Daily QA Report

Date: August 30, 1994

Quality Control Activities Conducted:

Levels of Personnel Protection Used During Field Work:
Field engineer and workers were in Level D for all trash removal.



George R. Gardner
Senior Environmental Engineer

Daily QA Report

Date: September 6, 1994

Quality Control Activities Conducted:

Levels of Personnel Protection Used During Field Work:

Field engineer and workers were in Level D for all trash removal.



George R. Gardner
Senior Environmental Engineer

Daily QA Report

Date: September 7, 1994

Project Name: Hanford North Slope Cleanup, Phase 2

Project Number: V-0307-01

Project Location: Hanford North Slope Sites

Field Engineer: George R. Gardner, Shannon & Wilson, Inc.

Weather Conditions:

75 °F, wind 8 knots out of the West, sunny.

Observations/Comments:

Personnel on Site: William Zimmerman, Klint Johnson, Mark Eddenn, Ken Linck, Larry Schouten, Tina Westermeyer, & Dale Cadieu (E.P. Johnson); Paul Ching, & Claude Huckins (Corps)

Equipment on Site: IH S1900 Dump Truck, IH S1900 Dump Truck w/trailer, Case 590 Backhoe, Chevrolet ¾-ton pickup w/trailer, Kawasaki Mule 2510 ATV, Ford ¾-ton pickup, & Ford ½-ton pickup.

SAMPLES COLLECTED

| Sample Number | Sample Location | Type | Comment |
|---------------|-----------------|------|---------|
| NONE | | | |

Work Performed:

Field Engineer arrived on site (PSN 07/10) at 0700 hours September 7, 1994. Paul Ching and Claude Huckins from Hanford Resident Office of the Walla Walla District and Bill Zimmerman, Mark Edden, Klint Johnson, Ken Linck, Tina Westermeyer, and Dale Cadieu of E.P. Johnson were on site. A safety meeting had been held and the work scheduled for the day had been discussed at 0630 hours. During the safety meeting the Site Health and Safety Plan was reviewed and field log was signed. Tina and Dale completed hauling gravel backfill to the Stock Tank and Well Site. Tina, Dale, Larry, and Mark raked out all signs of haul routes into the Stock Tank and Well and Homestead Cisterns. Crew moved to PSN 12/14 and dug up an old burn barrel and several treated railroad ties. Ken, Bill, and Klint worked on cutting off steel fence posts and rebar at the H-06-L site. They collected trash and tires and at 1027, Ken took a load of wire, telephone poles, and bottles and cans to the CLF. At 1345 Tina, Bill, Larry, Dale, and Mark moved to PSN 04 and worked on trash pickup. Crew left site at 1630 hours.

Field Analysis Performed: (Instrument checks, Calibration)

None.

Daily QA Report

Date: September 7, 1994

Problems Encountered/Corrective Actions: (Specify Sampling Problems, Alternative Methods Used and any Deviation From Planned Activities)

During the stockpiling of the debris, E.P. Johnson stockpiled several items that were outside their scope of work at PSN 04 and H-06-L.

Quality Control Activities Conducted:

Levels of Personnel Protection Used During Field Work:

Field engineer and workers were in Level D for all trash removal.



George R. Gardner
Senior Environmental Engineer

Daily QA Report

Date: September 8, 1994

Project Name: Hanford North Slope Cleanup, Phase 2

Project Number: V-0307-01

Project Location: Hanford North Slope Sites

Field Engineer: George R. Gardner, Shannon & Wilson, Inc.

Weather Conditions:

85 °F, wind 8 knots out of the West, sunny.

Observations/Comments:

Personnel on Site: William Zimmerman, Klint Johnson, Mark Edden, Ken Linck, Larry Schouten, Tina Westermeyer, & Dale Cadieu (E.P. Johnson); Paul Ching, & Claude Huckins (Corps)

Equipment on Site: IH S1900 Dump Truck, IH S1900 Dump Truck, Chevrolet ¾-ton pickup w/trailer, Kawasaki Mule 2510 ATV, Ford ¾-ton pickup, & Dodge ½-ton pickup.

SAMPLES COLLECTED

| Sample Number | Sample Location | Type | Comment |
|---------------|-----------------|------|---------|
| NONE | | | |

Work Performed:

Field Engineer arrived on site (PSN 07/10) at 0630 hours September 8, 1994. Paul Ching and Claude Huckins from Hanford Resident Office of the Walla Walla District and Bill Zimmerman, Mark Edden, Klint Johnson, Ken Linck, Tina Westermeyer, and Dale Cadieu of E.P. Johnson were on site. A safety meeting had been held and the work scheduled for the day had been discussed at 0630 hours. During the safety meeting the Site Health and Safety Plan was reviewed and field log was signed. Klint and Ken cut rebar and steel fence posts at H-06-L using a Black and Decker power hack saw, completed work at 0830 hours and moved to PSN 07/10 and cut guy wires, rebar, and other wire with hack saw. Larry, Tina, and Dale picked up trash along the road between PSN 04 and H-06-C. Mark and Bill picked up trash along the road from Hwy 24 to PSN 04. Dump truck was full at 1030 and Ken took it to the dump. Larry and Dale left site with the second IH S1900 Dump Truck. Klint and Tina moved over to PSN 12/14 and cut steel at that site then move over to H-12-C and cut steel at that location. Bill and Mark finished at PSN 04 and moved to PSN 12/14 and started moving the last of the trash from this site. Contractor left site at 1630 hours.

Field Analysis Performed: (Instrument checks. Calibration)

None.

Daily QA Report

Date: September 8, 1994

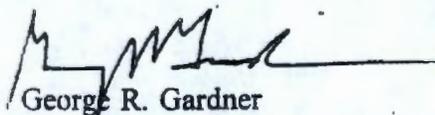
Problems Encountered/Corrective Actions (Specify Sampling Problems, Alternative Methods Used and any Deviation From Planned Activities)

During the stockpiling of the debris, E.P. Johnson stockpiled on visqueen several items that were outside their scope of work at PSN 04, PSN 07/10, H-06-L, PSN 12/14, H-12-L, and H-12-C.

Quality Control Activities Conducted:

Levels of Personnel Protection Used During Field Work:

Field engineer and workers were in Level D for all trash removal.



George R. Gardner
Senior Environmental Engineer

Daily QA Report

Date: September 9, 1994

Project Name: Hanford North Slope Cleanup, Phase 2

Project Number: V-0307-01

Project Location: Hanford North Slope Sites

Field Engineer: George R. Gardner, Shannon & Wilson, Inc.

Weather Conditions:

75 °F, wind 15 knots out of the West, sunny.

Observations/Comments:

Personnel on Site: William Zimmerman, Klint Johnson, Ken Linck, Larry Schouten, Tina Westermeyer, Mark Edden, & Dale Cadieu (E.P. Johnson); Paul Ching, & Claude Huckins (Corps)

Equipment on Site: IH S1900 Dump Truck, Chevrolet ¾-ton pickup w/trailer, Kawasaki Mule 2510 ATV, Ford ¾-ton pickup, & Dodge ½-ton pickup.

SAMPLES COLLECTED

| Sample Number | Sample Location | Type | Comment |
|---------------|-----------------|------|---------|
| NONE | | | |

Work Performed:

Field Engineer arrived on site (PSN 07/10) at 0630 hours September 9, 1994. Paul Ching and Claude Huckins from Hanford Resident Office of the Walla Walla District and Bill Zimmerman, Mark Eaton, Klint Johnson, Ken Linck, Tina Westermeyer, and Dale Cadieu of E.P. Johnson were on site. A safety meeting had been held and the work scheduled for the day had been discussed at 0630 hours. During the safety meeting the Site Health and Safety Plan was reviewed and field log was signed. Started trash removal at H-12-R, crew spent entire day stockpiling trash at this site. Ken made one trip to the DOE CLF. Bill and Mark continued cutting off steel guy wires and posts at PSN 07/10. Crew left site at 1630 hours.

Field Analysis Performed: (Instrument checks, Calibration)

None.

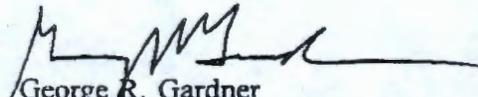
Problems Encountered/Corrective Actions: (Specify Sampling Problems, Alternative Methods Used and any Deviation From Planned Activities)

Quality Control Activities Conducted:

Daily QA Report

Date: September 9, 1994

Levels of Personnel Protection Used During Field Work:
Field engineer and workers were in Level D for all trash removal.



George R. Gardner
Senior Environmental Engineer

Daily QA Report

Date: September 12, 1994

Project Name: Hanford North Slope Cleanup, Phase 2

Project Number: V-0307-01

Project Location: Hanford North Slope Sites

Field Engineer: George R. Gardner, Shannon & Wilson, Inc.

Weather Conditions:

85 °F. wind 8 knots out of the West, sunny.

Observations/Comments:

Personnel on Site: William Zimmerman, Clint Johnson, Mark Eaton, Ken Linck, Larry Schouten, Dale Kadieu, & Tina Westermeyer (E.P. Johnson); Paul Ching, Claude Huckins, & Bill Jennings (Corps)

Equipment on Site: IH S1900 Dump Truck, Chevrolet ¾-ton pickup w/trailer, Kawasaki Mule 2510 ATV, Ford ¾-ton pickup, & Dodge ½-ton pickup.

SAMPLES COLLECTED

| Sample Number | Sample Location | Type | Comment |
|---------------|-----------------|------|---------|
| NONE | | | |

Work Performed:

Field Engineer arrived on site (H-12-R) at 0630 hours September 12, 1994. Paul Ching and Claude Huckins from Hanford Resident Office of the Walla Walla District and Bill Zimmerman, Mark Edden, Clint Johnson, Ken Linck, Dale Kadieu, Larry Schouten, and Tina Westermeyer of E.P. Johnson were on site. A safety meeting had been held and the work scheduled for the day had been discussed at 0630 hours. During the safety meeting the Site Health and Safety Plan was reviewed and field log was signed. Continued trash removal at H-12-R. Crew spent afternoon at PSN 72/82, PSN 80 and PSN 07/10 sites stockpiling paint cans and potentially hazardous material on sheets of visqueen. Ken made one trip to the DOE CLF from this site. Slurry backfilled holes at PSN 07/10, H-06-L, and H-12-L. Crew left site at 1630 hours.

Field Analysis Performed: (Instrument checks, Calibration)

None.

Problems Encountered/Corrective Actions: (Specify Sampling Problems, Alternative Methods Used and any Deviation From Planned Activities)

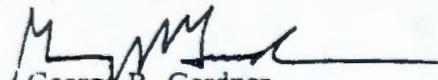
Daily QA Report

Date: September 12, 1994

Quality Control Activities Conducted:

Levels of Personnel Protection Used During Field Work:

Field engineer and workers were in Level D for all trash removal.


George R. Gardner
Senior Environmental Engineer

Daily QA Report

Date: September 13, 1994

Project Name: Hanford North Slope Cleanup, Phase 2

Project Number: V-0307-01

Project Location: Hanford North Slope Sites

Field Engineer: George R. Gardner, Shannon & Wilson, Inc.

Weather Conditions:

75 °F, wind 15 knots out of the West, sunny.

Observations/Comments:

Personnel on Site: William Zimmerman, Klint Johnson, Ken Linck, & Mark Edden (E.P. Johnson); Paul Ching, & Claude Huckins (Corps)

Equipment on Site: IH S1900 Dump Truck, Chevrolet ¾-ton pickup w/trailer, Kawasaki Mule 2510 ATV, & Dodge ½-ton pickup.

SAMPLES COLLECTED

| Sample Number | Sample Location | Type | Comment |
|---------------|-----------------|------|---------|
| NONE | | | |

Work Performed:

Field Engineer arrived on site (H-12-R) at 0630 hours September 13, 1994. Paul Ching and Claude Huckins from Hanford Resident Office of the Walla Walla District and Bill Zimmerman, Mark Edden, Klint Johnson, and Ken Linck of E.P. Johnson were on site. A safety meeting had been held and the work scheduled for the day had been discussed at 0630 hours. During the safety meeting the Site Health and Safety Plan was reviewed and field log was signed. Continued trash removal at H-12-R, crew spent entire day stockpiling trash at this site. Ken made one trip to the DOE CLF. Bill and Mark started stockpiling paint cans and potentially hazardous material on visqueen at PSN 07/10, H-12-L, H-12-C, and PSN 12/14. Crew left site at 1630 hours.

Field Analysis Performed: (Instrument checks, Calibration)

None.

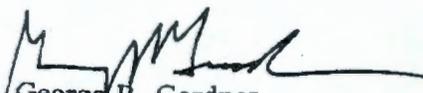
Problems Encountered/Corrective Actions: (Specify Sampling Problems, Alternative Methods Used and any Deviation From Planned Activities)

Quality Control Activities Conducted:

Daily QA Report

Date: September 13, 1994

Levels of Personnel Protection Used During Field Work:
Field engineer and workers were in Level D for all trash removal.



George R. Gardner
Senior Environmental Engineer

Daily QA Report

Date: September 15, 1994

Project Name: Hanford North Slope Cleanup, Phase 2

Project Number: V-0307-01

Project Location: Hanford North Slope Sites

Field Engineer: George R. Gardner, Shannon & Wilson, Inc.

Weather Conditions:

85 °F, wind 8 knots out of the West, sunny

Observations/Comments:

Personnel on Site: William Zimmerman, Klint Johnson, Mark Edden, Ken Linck, & Tina Westermeyer(E.P. Johnson); Claude Huckins (Corps)

Equipment on Site: IH S1900 Dump Truck w/trailer, Kubota KX 101 Trackhoe, Chevrolet ¼-ton pickup w/trailer, Kawasaki Mule 2510 ATV, & Dodge ½-ton pickup.

SAMPLES COLLECTED

| Sample Number | Sample Location | Type | Comment |
|---------------|-----------------|------|---------|
| NONE | | | |

Work Performed:

Field Engineer arrived on site (H-12-R) at 0700 hours September 15, 1994. Claude Huckins from Hanford Resident Office of the Walla Walla District and Bill Zimmerman, Klint Johnson, Mark Edden, Tina Westermeyer, and Ken Linck of E.P. Johnson were on site. A safety meeting had been held and the work scheduled for the day had been discussed at 0630 hours. During the safety meeting the Site Health and Safety Plan was reviewed and field log was signed. The crew loaded the dump truck with auto parts, commo wire, fence posts, and fence wire. Metal roofing material was loaded into the E.P. Johnson pickup to be recycled off post. Several small pieces of concrete were buried at the site using the Kubota trackhoe. The crew also spent time covering up tracks using a rake. Mark and Bill moved on to H-12-L and cut off rebar and steel tiedown cables. At 0930 hours, the crew moved to H-06-L and cut off the last of the steel fence posts and picked up some cans and other trash. At 1045 the crew moved to PSN 04 and cut off several pieces of steel cable and picked up bricks and wooden construction debris left after the excavation of the anomalies in the onsite landfills. At 1320 hours Ken took the dump truck to the CLF and the crew continued to stockpile trash at PSN 04. Crew left site at 1515 hours.

Field Analysis Performed: (Instrument checks, Calibration)

None.

Daily QA Report

Date: September 15, 1994

Problems Encountered/Corrective Actions: (Specify Sampling Problems, Alternative Methods Used and any Deviation From Planned Activities)

Quality Control Activities Conducted:

Levels of Personnel Protection Used During Field Work:
Field engineer and workers were in Level D for all trash removal.



George R. Gardner
Senior Environmental Engineer

Daily QA Report

Date: September 15, 1994

Project Name: Hanford North Slope Cleanup, Phase 2

Project Number: V-0307-01

Project Location: Hanford North Slope Sites

Field Engineer: George R. Gardner, Shannon & Wilson, Inc.

Weather Conditions:

85 °F, wind 8 knots out of the West, sunny.

Observations/Comments:

Personnel on Site: William Zimmerman, Klint Johnson, Mark Edden, Ken Linck, & Tina Westermeyer (E.P. Johnson); Claude Huckins (Corps)

Equipment on Site: IH S1900 Dump Truck w/trailer, Kubota KX 101 Trackhoe, Chevrolet ¾-ton pickup w/trailer, Kawasaki Mule 2510 ATV, & Dodge ½-ton pickup.

SAMPLES COLLECTED

| Sample Number | Sample Location | Type | Comment |
|---------------|-----------------|------|---------|
| NONE | | | |

Work Performed:

Field Engineer arrived on site (H-12-R) at 0700 hours September 15, 1994. Claude Huckins from Hanford Resident Office of the Walla Walla District and Bill Zimmerman, Klint Johnson, Mark Edden, Tina Westermeyer, and Ken Linck of E.P. Johnson were on site. A safety meeting had been held and the work scheduled for the day had been discussed at 0630 hours. During the safety meeting the Site Health and Safety Plan was reviewed and field log was signed. The crew loaded the dump truck with auto parts, commo wire, fence posts, and fence wire. Metal roofing material was loaded into the E.P. Johnson pickup to be recycled off post. Several small pieces of concrete were buried at the site using the Kubota trackhoe. The crew also spent time covering up tracks using a rake. Mark and Bill moved on to H-12-L and cut off rebar and steel tiedown cables. At 0930 hours, the crew moved to H-06-L and cut off the last of the steel fence posts and picked up some cans and other trash. At 1045 the crew moved to PSN 04 and cut off several pieces of steel cable and picked up bricks and wooden construction debris left after the excavation of the anomalies in the onsite landfills. At 1320 hours Ken took the dump truck to the CLF and the crew continued to stockpile trash at PSN 04. Crew left site at 1515 hours.

Field Analysis Performed: (Instrument checks, Calibration)

None.

Daily QA Report

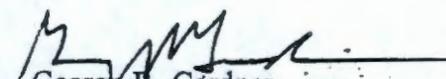
Date: September 15, 1994

Problems Encountered/Corrective Actions: (Specify Sampling Problems, Alternative Methods Used and any Deviation From Planned Activities)

Quality Control Activities Conducted:

Levels of Personnel Protection Used During Field Work:

Field engineer and workers were in Level D for all trash removal.


George R. Gardner
Senior Environmental Engineer

Daily QA Report

Date: September 19, 1994

Project Name: Hanford North Slope Cleanup, Phase 2

Project Number: V-0307-01

Project Location: Hanford North Slope Sites

Field Engineer: George R. Gardner, Shannon & Wilson, Inc.

Weather Conditions:

85 °F, wind 8 knots out of the West, sunny

Observations/Comments:

Personnel on Site: William Zimmerman, Klint Johnson, Mark Edden, Ken Linck, Tina Westermeyer, & Dale Cadieu (E.P. Johnson); Paul Ching, Bill Jennings, & Claude Huckins (Corps)

Equipment on Site: IH S1900 Dump Truck w/trailer, Kubota KX 101 Trackhoe, Chevrolet ¾-ton pickup, Kawasaki Mule 2510 ATV, & Dodge ½-ton pickup w/trailer.

SAMPLES COLLECTED

| Sample Number | Sample Location | Type | Comment |
|---------------|-----------------|------|---------|
| NONE | | | |

Work Performed:

Field Engineer arrived on site (PSN 72/82) at 0630 hours September 19, 1994. Paul Ching and Claude Huckins from Hanford Resident Office of the Walla Walla District and Bill Zimmerman, Mark Edden, Klint Johnson, Ken Linck, Tina Westermeyer, and Dale Cadieu of E.P. Johnson were on site. A safety meeting had been held and the work scheduled for the day had been discussed at 0630 hours. During the safety meeting the Site Health and Safety Plan was reviewed and field log was signed. At 0645, the dump truck moved to PSN 04 where materials had been stockpiled on September 15, 1994 and it was loaded with auto parts commo wire, fence posts, and fence wire. The crew cut off two steel tie downs and collected all transite siding at the Bridge View site and along the road between PSN 72/82 and PSN 80. The crew moved to PSN 80 and collected trash. Dump truck returned at 0945 and hauled a second load to the CLF at 1100 hours. The E.P. Johnson crew continued to stockpile trash at PSN 80. Contractor left site at 1530 hours.

Field Analysis Performed: (Instrument checks, Calibration)

None.

Daily QA Report

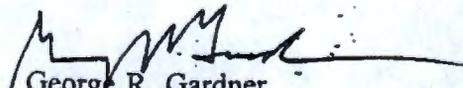
Date: September 19, 1994

Problems Encountered/Corrective Actions: (Specify Sampling Problems, Alternative Methods Used and any Deviation From Planned Activities)

Quality Control Activities Conducted:

Levels of Personnel Protection Used During Field Work:

Field engineer and workers were in Level D for all trash removal.



George R. Gardner
Senior Environmental Engineer

Daily QA Report

Date: September 20, 1994

Project Name: Hanford North Slope Cleanup, Phase 2

Project Number: V-0307-01

Project Location: Hanford North Slope Sites

Field Engineer: George R. Gardner, Shannon & Wilson, Inc.

Weather Conditions:

85 °F, wind 8 knots out of the West, sunny.

Observations/Comments:

Personnel on Site: William Zimmerman, Klint Johnson, Mark Edden, Ken Linck, & Tina Westermeyer (E.P. Johnson); Claude Huckins (Corps)

Equipment on Site: IH S1900 Dump Truck w/trailer, Kubota KX 101 Trackhoe, Chevrolet ¾-ton pickup, Kawasaki Mule 2510 ATV, & Dodge ½-ton pickup w/trailer.

SAMPLES COLLECTED

| Sample Number | Sample Location | Type | Comment |
|---------------|-----------------|------|---------|
| NONE | | | |

Work Performed:

Field Engineer arrived on site (PSN 80) at 0700 hours September 20, 1994. Claude Huckins from Hanford Resident Office of the Walla Walla District and Bill Zimmerman, Klint Johnson, Mark Edden, Tina Westermeyer, and Ken Linck of E.P. Johnson were on site. A safety meeting had been held and the work scheduled for the day had been discussed at 0630 hours. During the safety meeting the Site Health and Safety Plan was reviewed and field log was signed. At 0715, the dump truck was loaded with auto parts, commo wire, fence posts, and fence wire and departed PSN 80. The crew moved to H-83-C and filled in the old cistern, hauled out a large pile of wooden construction material, and cut off two steel tie downs. The crew moved to PSN 90 and cut off two 4" steel pipes.. Dump truck returned at 0930 and mobilized the trackhoe to PSN 12/14. E.P. Johnson personnel continued to stockpile trash (metal cans, wire, and some sheets of metal siding) at PSN 12/14. Crew left site at 1330 hours.

Field Analysis Performed: (Instrument checks, Calibration)

None.

Daily QA Report

Date: September 20, 1994

Problems Encountered/Corrective Actions: (Specify Sampling Problems, Alternative Methods Used and any Deviation From Planned Activities)

All items outside the scope of this task order were stockpiled on a port-a-pad at PSN 12/14 and a sheet of visqueen at PSN 80.

Quality Control Activities Conducted:

Levels of Personnel Protection Used During Field Work:

Field engineer and workers were in Level D for all trash removal.


George R. Gardner
Senior Environmental Engineer

Daily QA Report

Date: September 21, 1994

Project Name: Hanford North Slope Cleanup, Phase 2

Project Number: V-0307-01

Project Location: Hanford North Slope Sites

Field Engineer: George R. Gardner, Shannon & Wilson, Inc.

Weather Conditions:

85 °F, wind 8 knots out of the West, sunny.

Observations/Comments:

Personnel on Site: William Zimmerman, Klint Johnson, Mark Edden, Ken Linck, & Tina Westermeyer (E.P. Johnson); Claude Huckins (Corps)

Equipment on Site: IH S1900 Dump Truck, Chevrolet ¼-ton pickup, Kawasaki Mule 2510 ATV, & Dodge ½-ton pickup w/trailer.

SAMPLES COLLECTED

| Sample Number | Sample Location | Type | Comment |
|---------------|-----------------|------|---------|
| NONE | | | |

Work Performed:

Field Engineer arrived on site (PSN 80) at 0700 hours September 21, 1994. Claude Huckins from Hanford Resident Office of the Walla Walla District and Bill Zimmerman, Klint Johnson, Mark Edden, Tina Westermeyer, and Ken Linck of E.P. Johnson were on site. A safety meeting had been held and the work scheduled for the day had been discussed at 0630 hours. During the safety meeting the Site Health and Safety Plan was reviewed and field log was signed. E.P. Johnson personnel continued to stockpile trash (metal cans, wire, and some sheets of metal siding) at PSN 12/14. Crew left site at 1330 hours.

Field Analysis Performed: (Instrument checks, Calibration)

None.

Problems Encountered/Corrective Actions: (Specify Sampling Problems, Alternative Methods Used and any Deviation From Planned Activities)

Daily QA Report

Date: September 21, 1994

Quality Control Activities Conducted:

Levels of Personnel Protection Used During Field Work:

Field engineer and workers were in Level D for all trash removal.


George R. Gardner
Senior Environmental Engineer

Daily QA Report

Date: September 22, 1994

Project Name: Hanford North Slope Cleanup, Phase 2

Project Number: V-0307-01

Project Location: Hanford North Slope Sites

Field Engineer: George R. Gardner, Shannon & Wilson, Inc.

Weather Conditions:

85 °F, wind 8 knots out of the West, sunny

Observations/Comments:

Personnel on Site: William Zimmerman, Clint Johnson, Mark Edden, Ken Linck, Dale Kadieu, & Tina Westermeyer (E.P. Johnson); Claude Huckins (Corps)

Equipment on Site: IH S1900 Dump Truck, Chevrolet ¾-ton pickup, Kawasaki Mule 2510 ATV, & Dodge ½-ton pickup w/trailer.

SAMPLES COLLECTED

| Sample Number | Sample Location | Type | Comment |
|---------------|-----------------|------|---------|
| NONE | | | |

Work Performed:

Field Engineer arrived on site (PSN 12/14) at 0700 hours September 22, 1994. Claude Huckins from Hanford Resident Office of the Walla Walla District and Bill Zimmerman, Clint Johnson, Mark Edden, Tina Westermeyer, and Ken Linck of E.P. Johnson were on site. A safety meeting had been held and the work scheduled for the day had been discussed at 0630 hours. During the safety meeting the Site Health and Safety Plan was reviewed and field log was signed. E.P. Johnson personnel completed stockpiling trash (metal cans, wire, and some sheets of metal siding) at PSN 12/14. All material was hauled to DOE CLF. Wooden building material was stockpiled on site for future action. Crew left site at 1330 hours.

Field Analysis Performed: (Instrument checks, Calibration)

None.

Problems Encountered/Corrective Actions: (Specify Sampling Problems, Alternative Methods Used and any Deviation From Planned Activities)

Daily QA Report

Date: September 22, 1994

Quality Control Activities Conducted:

Levels of Personnel Protection Used During Field Work:

Field engineer and workers were in Level D for all trash removal.



George R. Gardner
Senior Environmental Engineer

SHANNON & WILSON, INC.

APPENDIX C

PHOTOS

V-0307-01

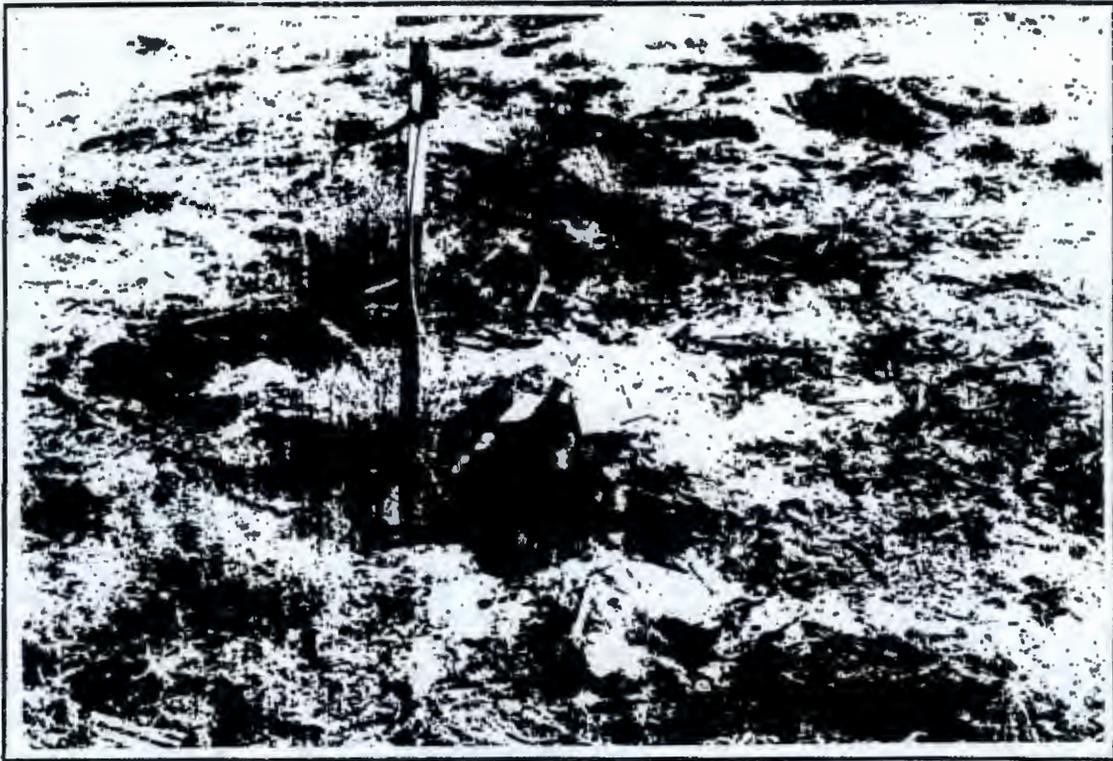


Photo 1. Bridge View Site. Paint can discovered and marked.

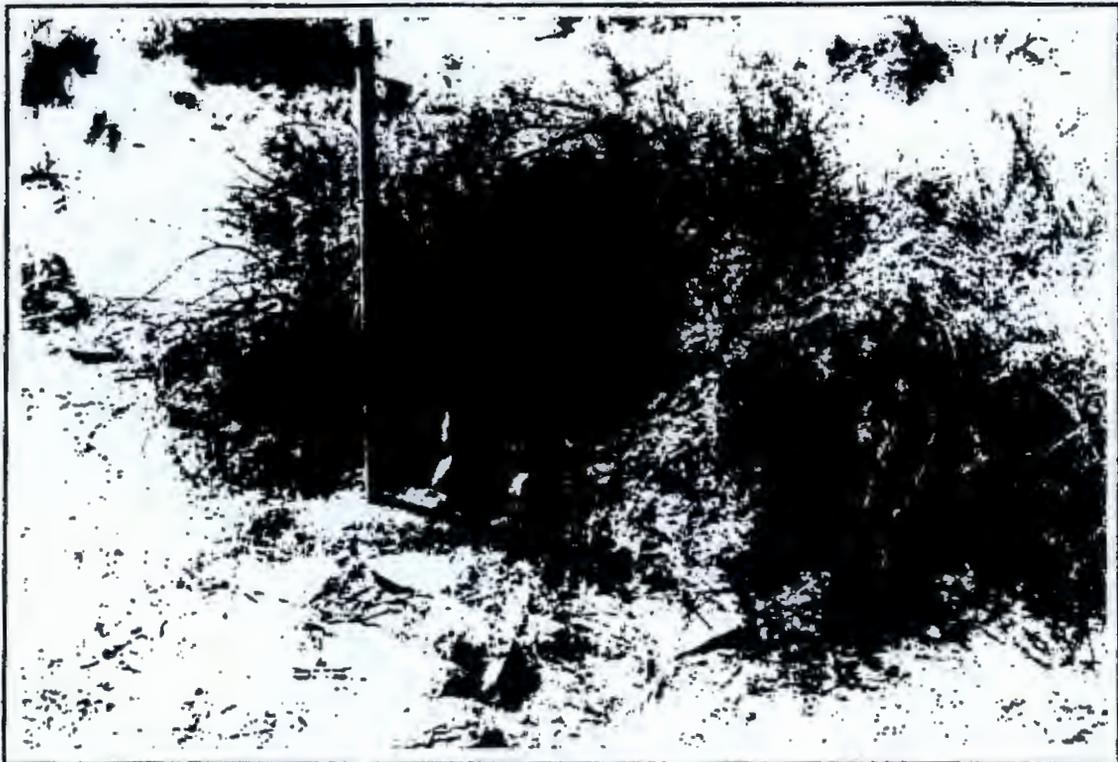


Photo 2. Bridge View Site. Oil cans discovered and marked



Photo 3. PSN 72/82 Site. Paint cans discovered and marked

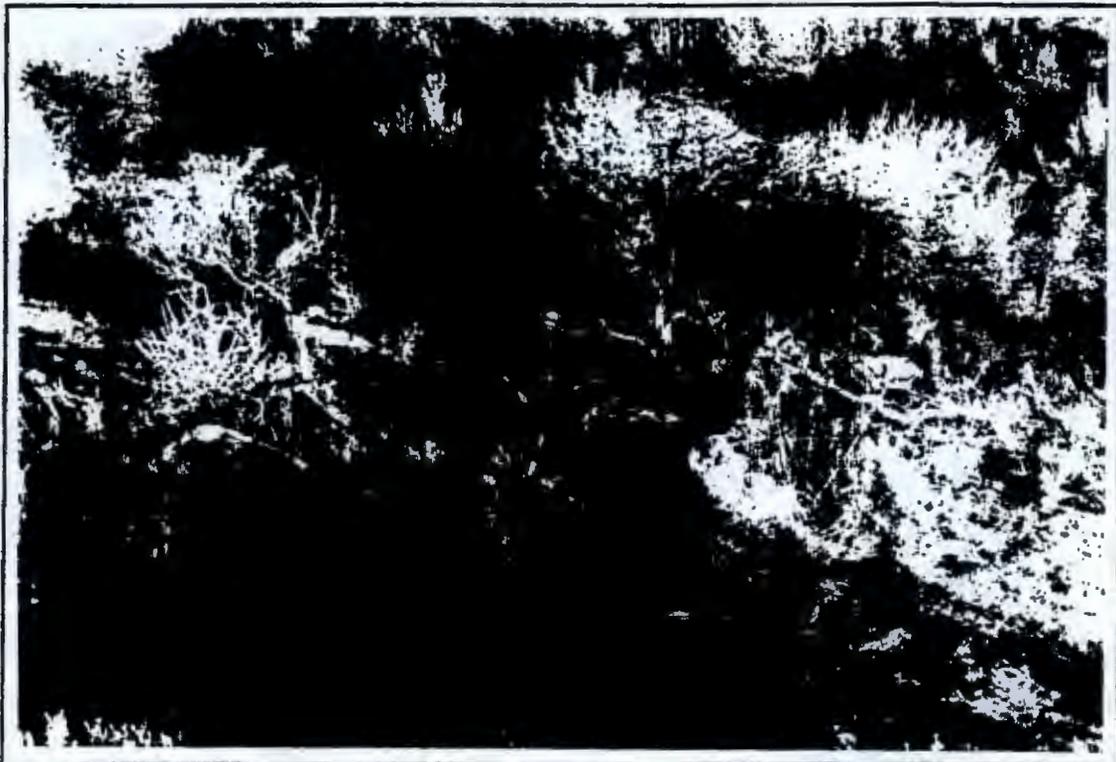


Photo 4. PSN 72/82 Site. Oil cans discovered and marked.



Photo 5. H-81-R Site. Wooden construction material originally left for burning. Under Phase 2, was hauled to Hanford C.I.F.



Photo 6. H-81-R Site. Second pile of wooden construction material hauled to Hanford C.I.F. under Phase 2.



Photo 7. H-81-R Site. Debris pile from Phase 1 hauled to Hanford CLF during Phase 2.



Photo 8. H-83-C Site. Cistern backfilled and raked out.



Photo 9. H-83-C Site. Wooden debris removed September 19, 1994.



Photo 10. H-83-C Site. More wooden debris found and removed.

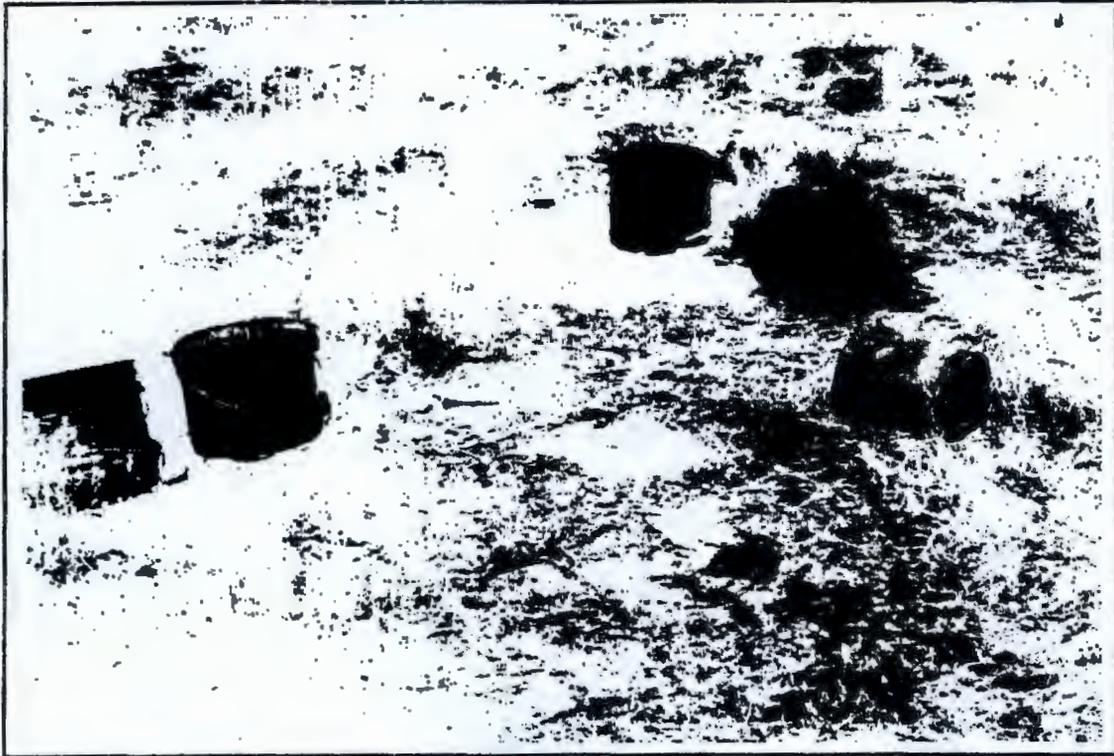


Photo 11 PSN 80 Site. Grease cans discovered and removed.



Photo 12. PSN 80 Site. Oil and solvent cans.



Photo 13. PSN 80 Site. Treated railroad ties, partially burned.

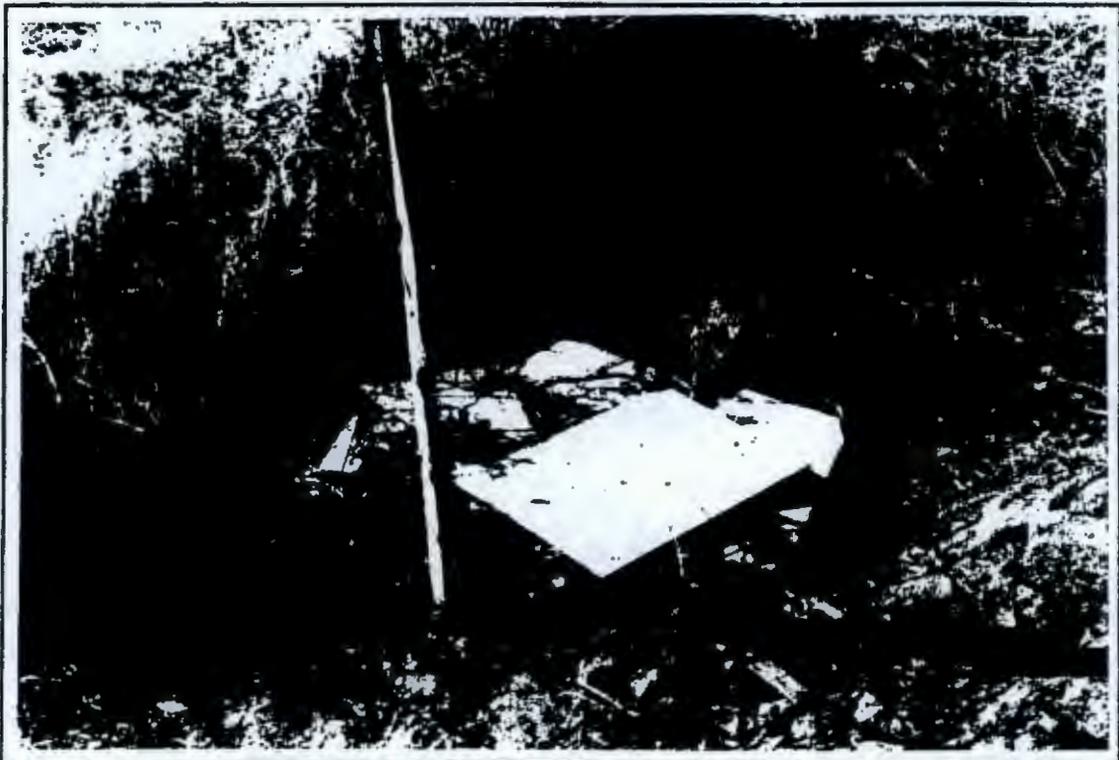


Photo 14. PSN 80 Site. Transite siding.

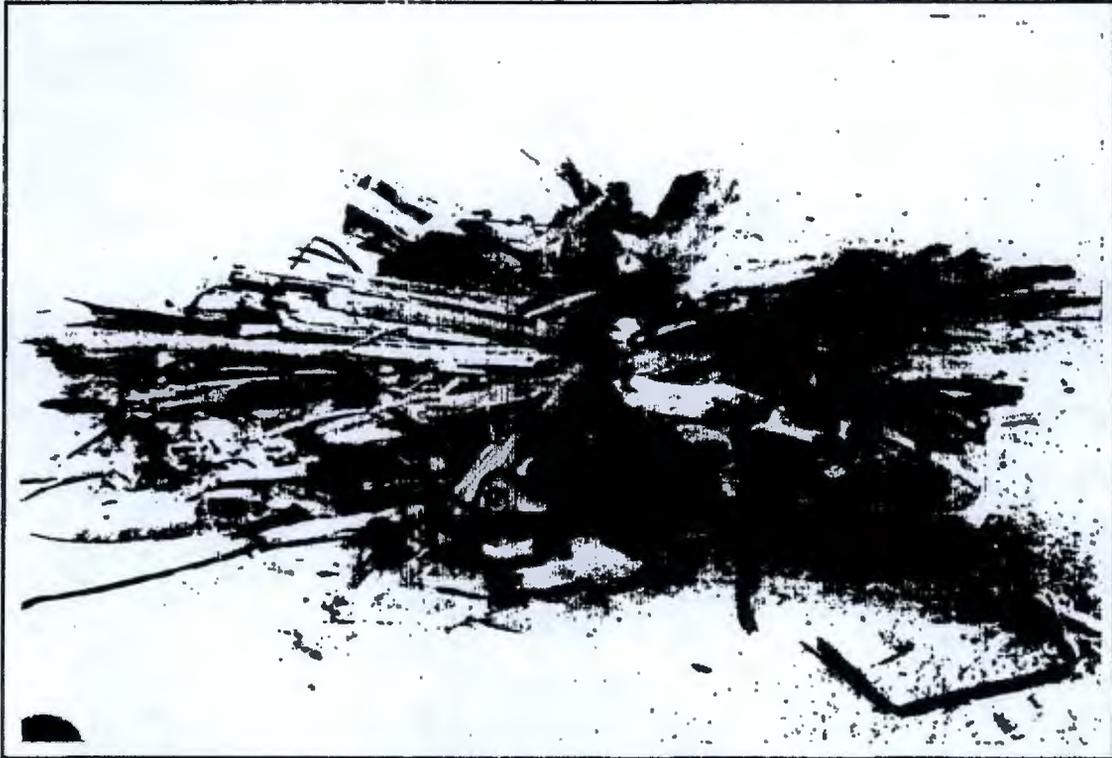


Photo 15. PSN 80 Site. Trash including solvent and oil cans, banding material and wooden construction material stockpiled for hauling to Hanford CLF.

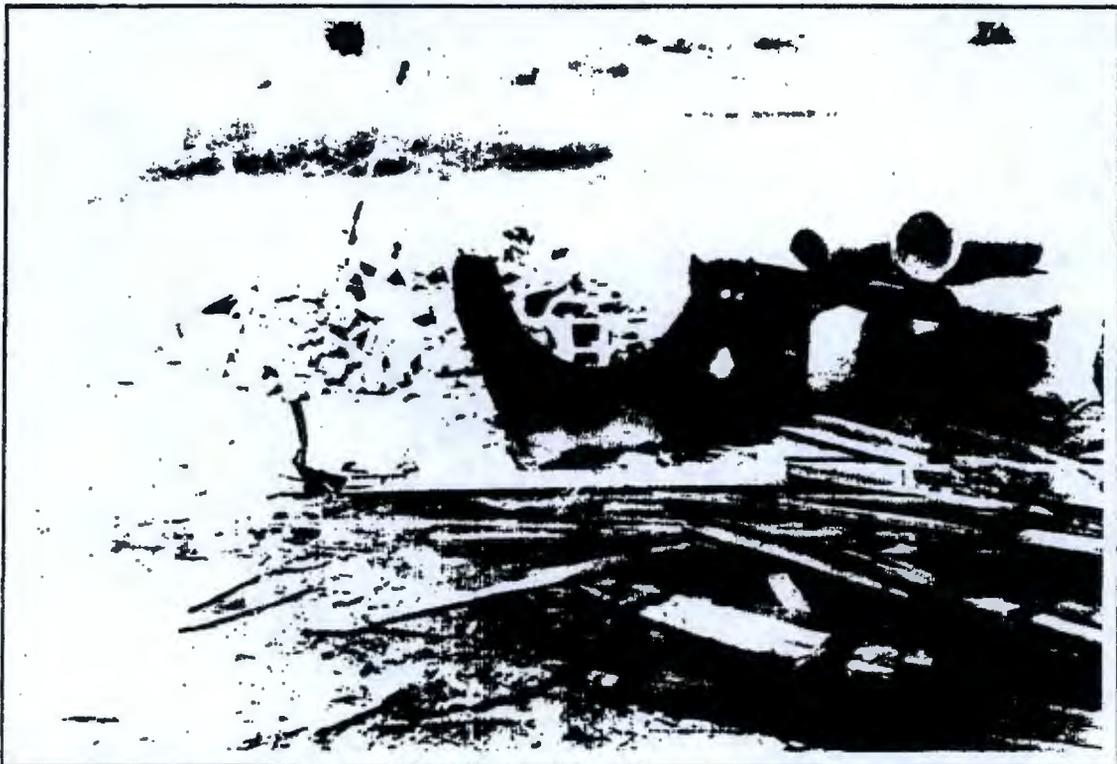


Photo 16. PSN 80 Site. Trash stockpiled for haul to Hanford CLF in foreground and concrete hauled to Hanford Concrete Recycling Facility in background.



Photo 17. PSN 80 Site. Immersion heater fuel tank.

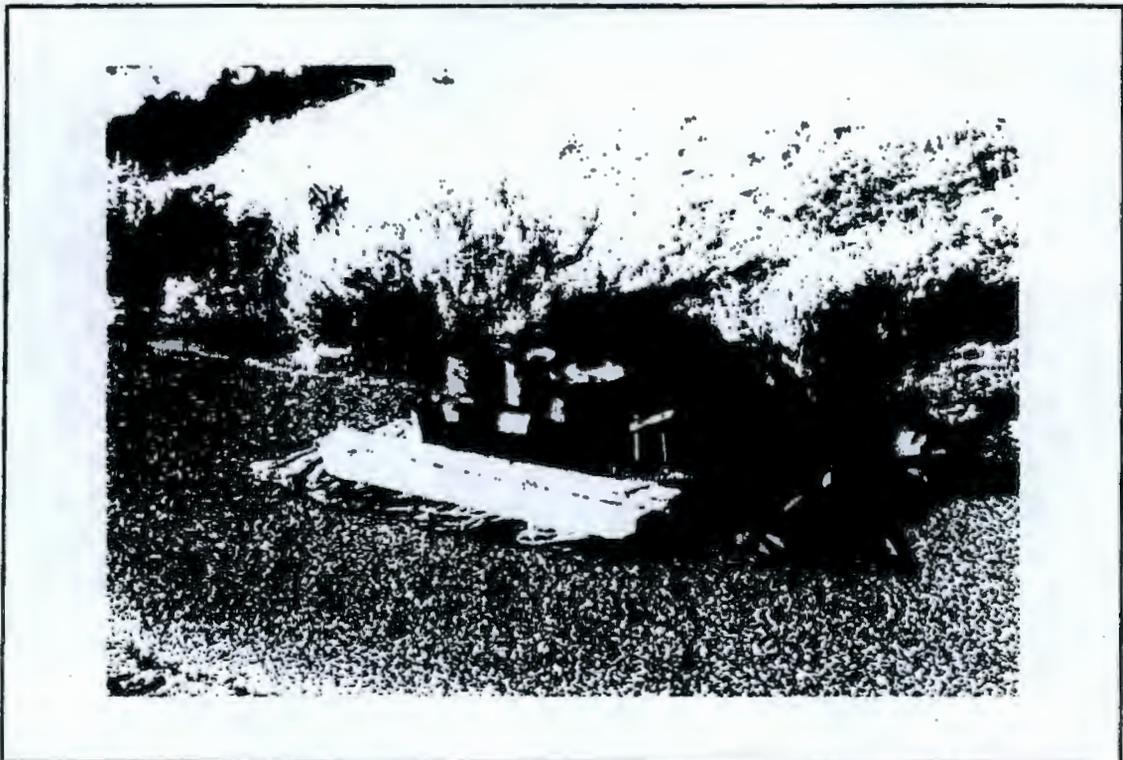


Photo 18. PSN 80 Site. Cans, batteries, and treated timbers stockpiled.



Photo 19. WSDOT Pit 47 Site. Wooden debris removed from second pit.



Photo 20. WSDOT Pit 47 Site. Cans and banding material buried in hole in second pit.



Photo 21. WSDOT Pit 47 Site. Oil filter discovered and marked.



Photo 22. WSDOT Pit 47 Site. Oil filters discovered and marked.

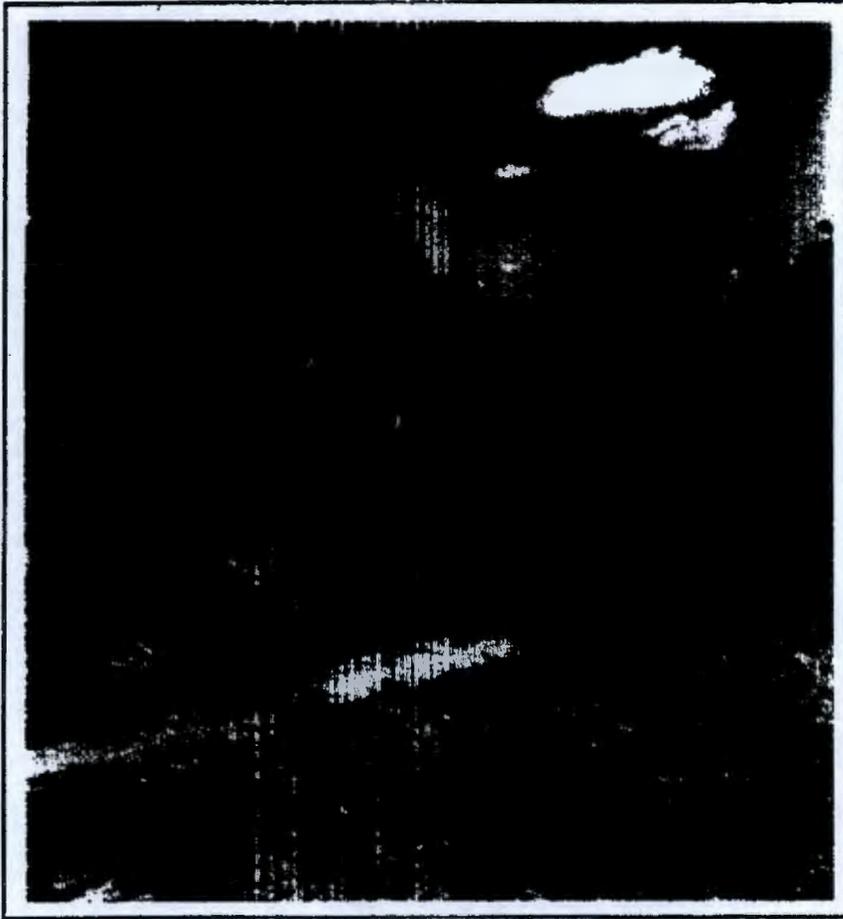


Photo 23. PSN 90 Site.
Concrete debris pile.



Photo 24. PSN 90 Site.
Concrete debris removed
and site graded.



Photo 25. PSN 90 Site. Metal siding dug out of mounds on site.

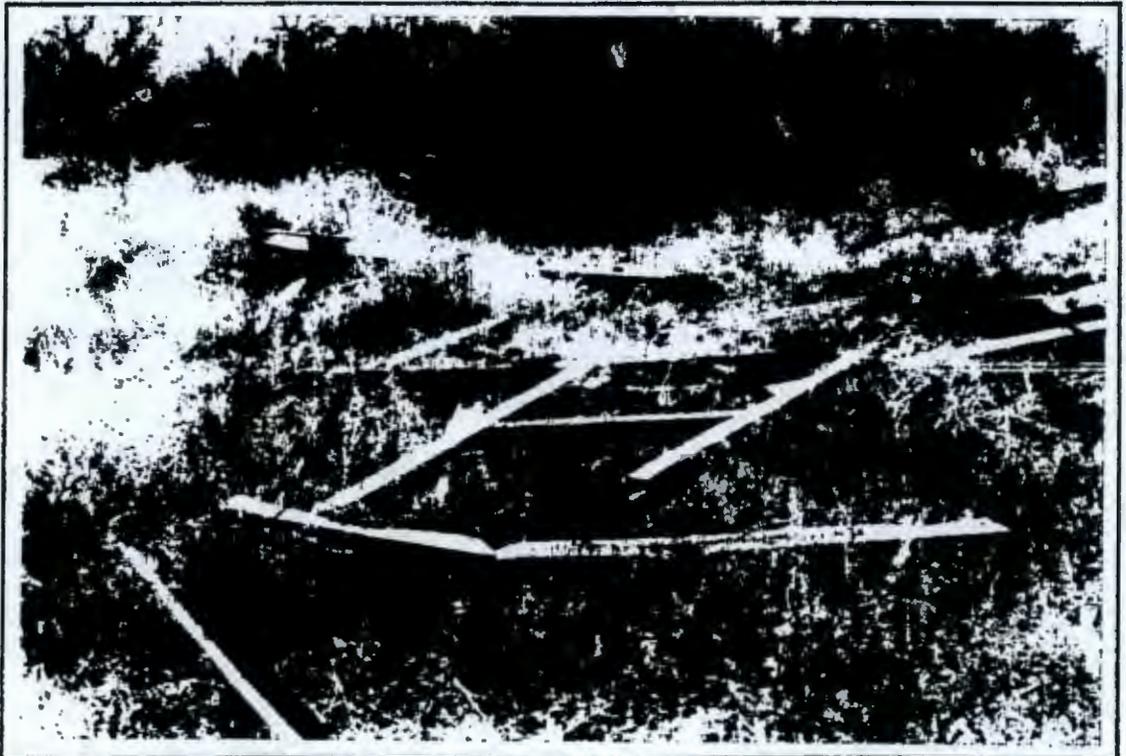


Photo 26. PSN 90 Site. Aluminum beams found and removed.



Photo 27. PSN 90 Site. Aluminum I-beams and wooden construction material removed from site.

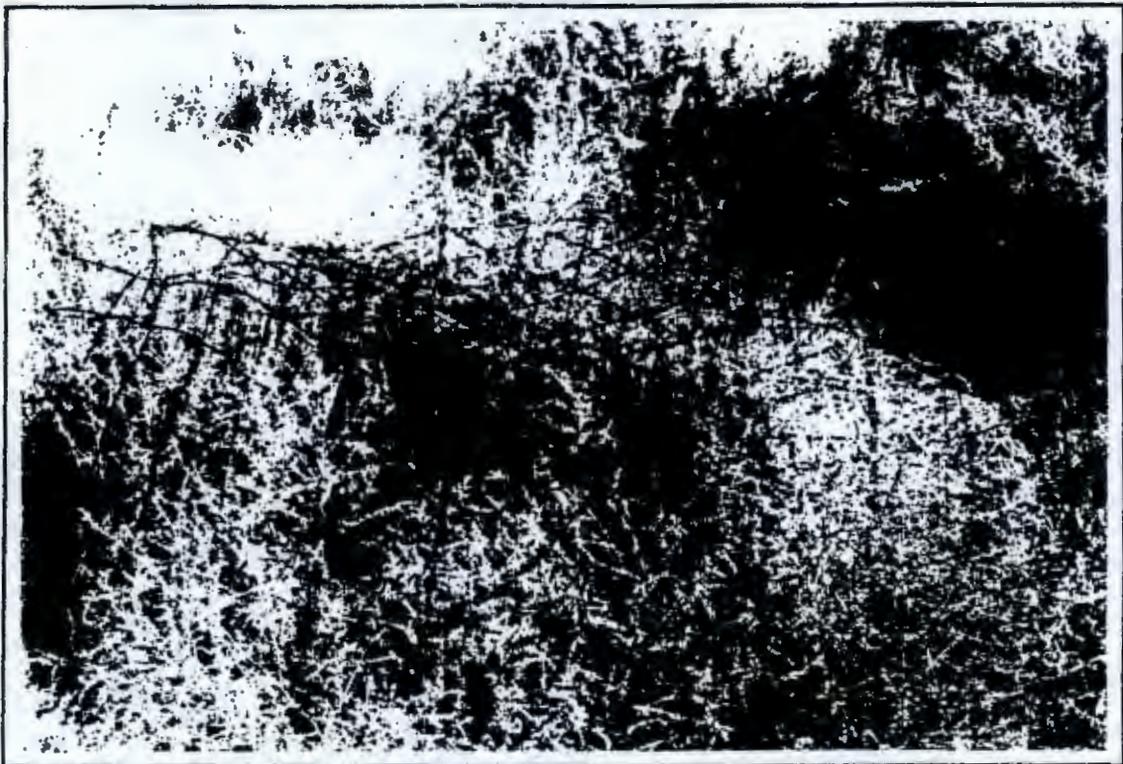


Photo 28. PSN 90 Site. Wire mesh cage removed from site



Photo 45. PSN 12/14 Site. Paint can and construction material discovered near military dump.



Photo 46. PSN 12/14 Site. Paint cans found near motor pool site.



Photo 29. Pit 56 Site. Oil cans with residue.

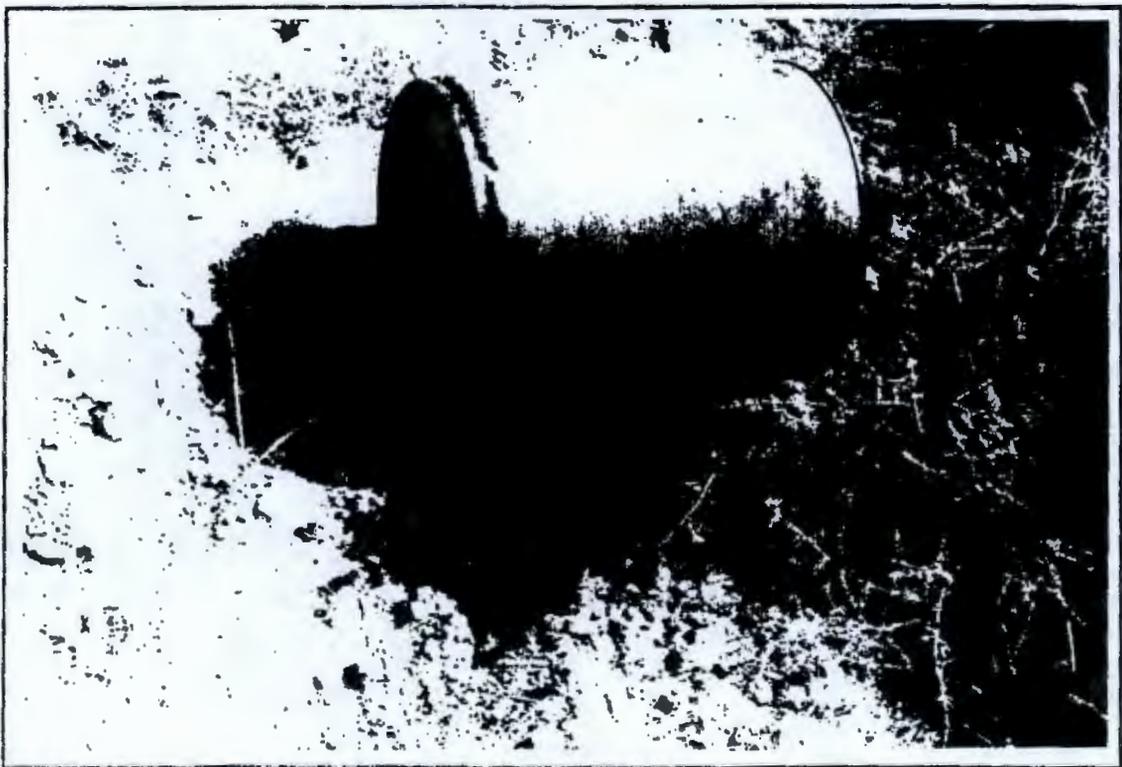


Photo 30. Pit 56 Site. Oil can full of dead bugs.

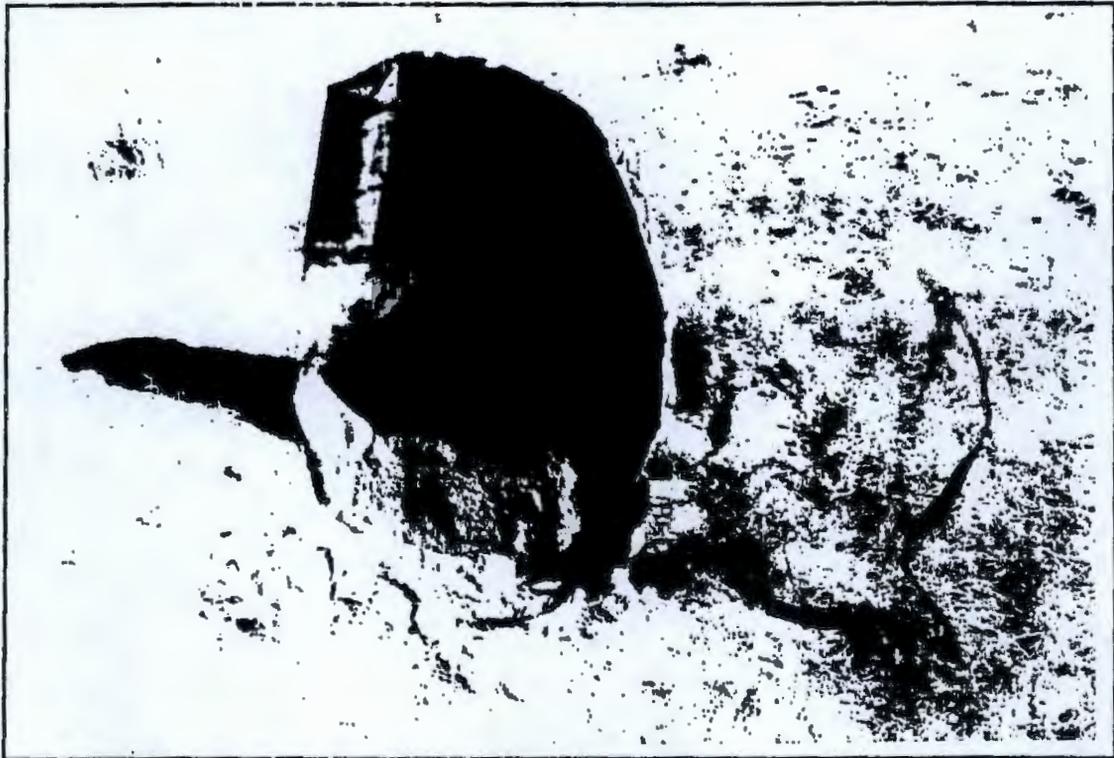


Photo 33. PSN 04 Site. Oil barrel and banding material found on road to H-06-C.



Photo 34. PSN 04 Site. Potentially hazardous materials stockpiled on visqueen.



Photo 31. Pit 56 Site. Treated timber and other wooden debris removed from site.



Photo 32. PSN 04 Site. Auto battery discovered on site.



Photo 35. PSN 07/10 Site. Cleanup of visqueen after removal of TPH contaminated soil by ICF Kaiser Hanford Company.

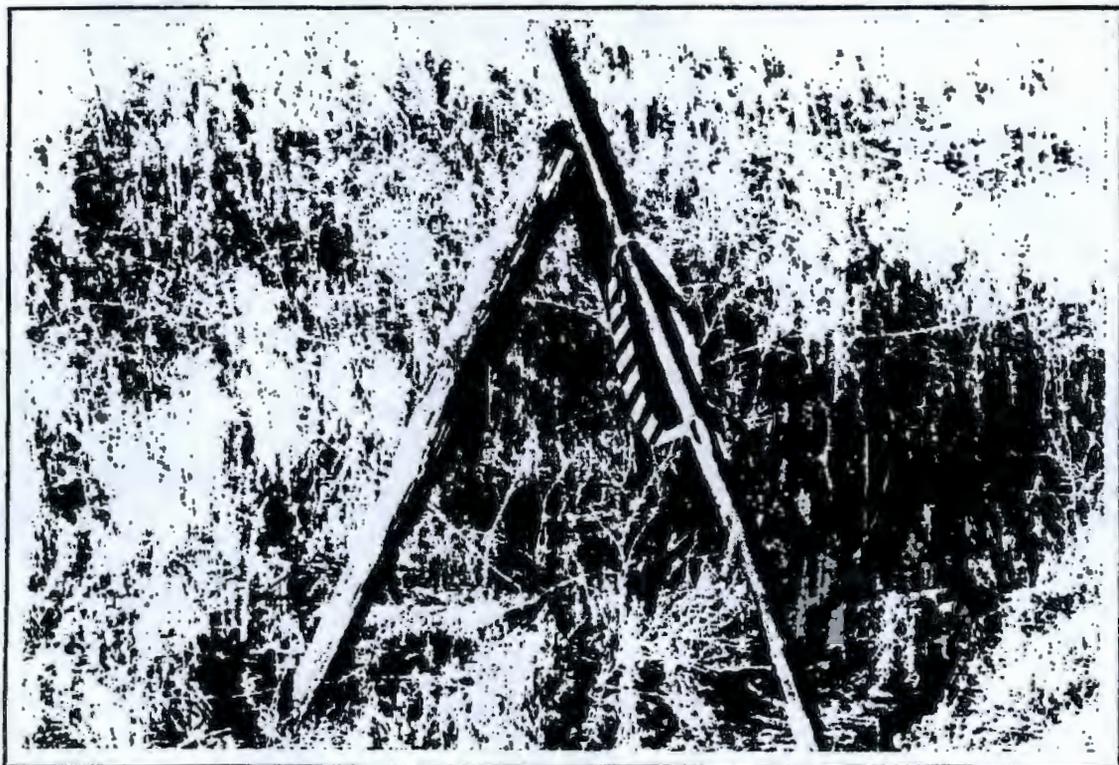


Photo 36. PSN 07/10 Site. Wooden debris.



Photo 37. PSN 07/10 Site. Debris stockpiled prior to being hauled to Hanford CLF.



Photo 38. PSN 07/10 Site. Debris stockpiled prior to being hauled to Hanford CLF.



Photo 39. H-06-L Site. Barrel discovered and buried on site.



Photo 40 H-06-L Site Concrete pad after all rebar has been cut off

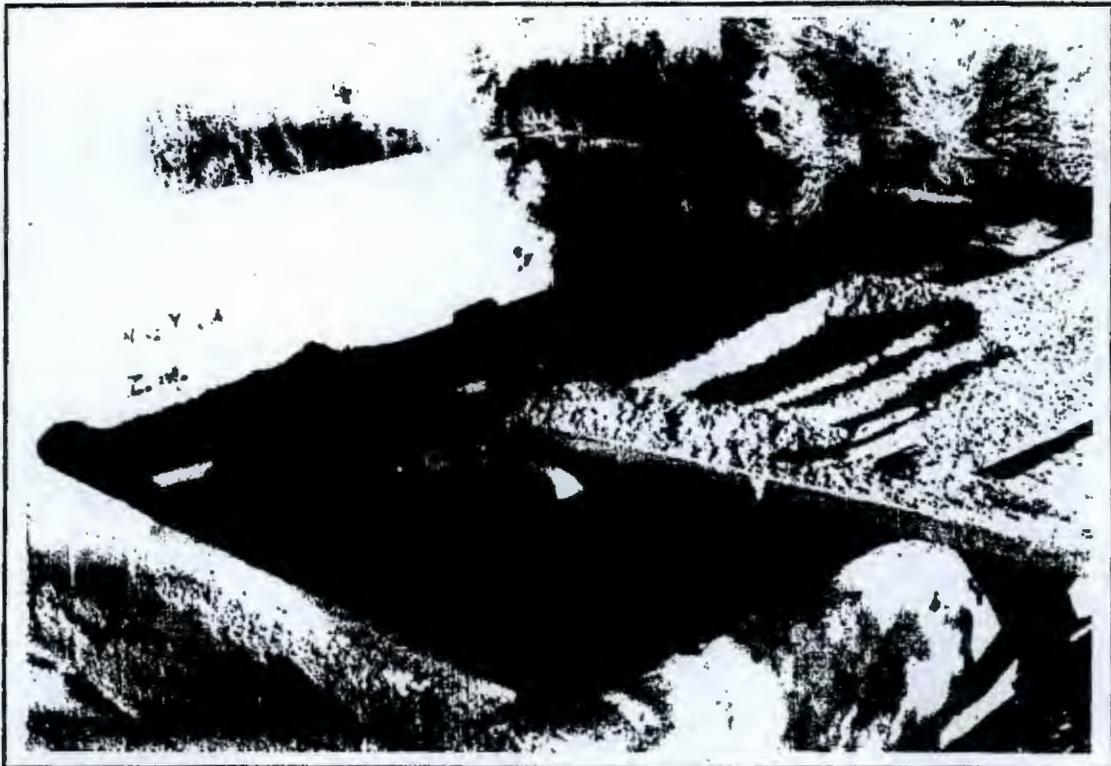


Photo 41. Stock Tank and Well Cistern Site. Cistern being backfilled using tractor backhoe.

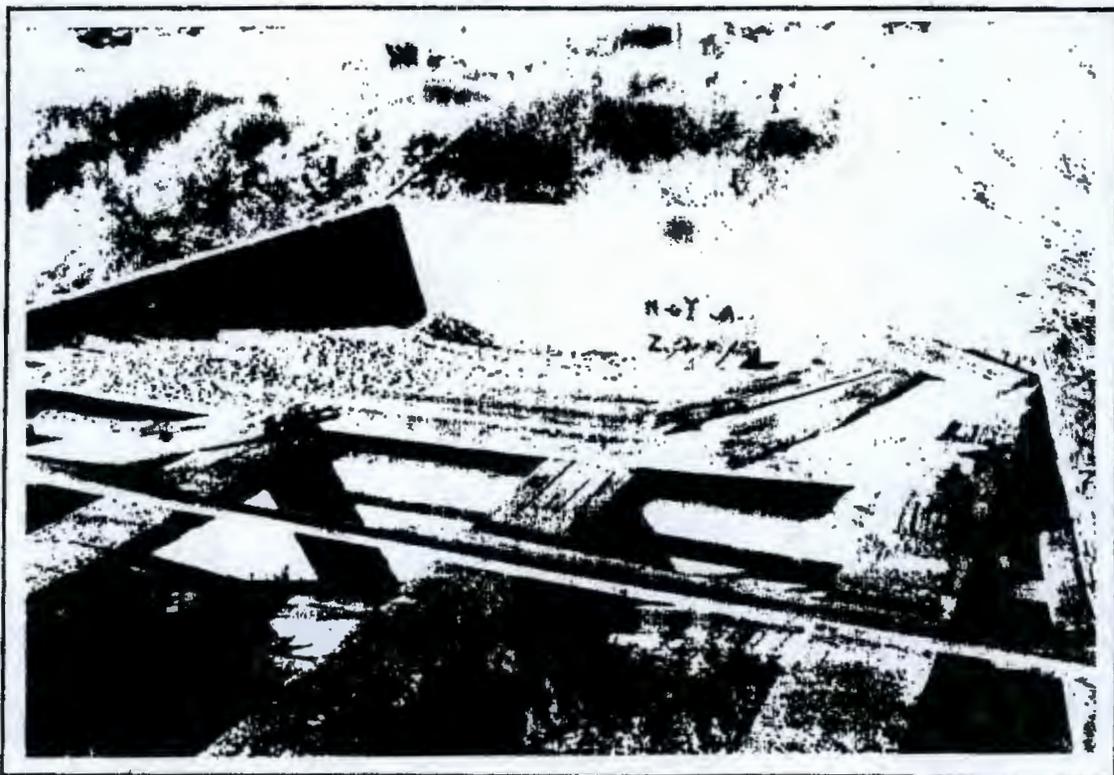


Photo 42. Stock Tank and Well Cistern Site. Cistern cover



Photo 43. PSN 12/14 Site. Paint cans and timbers picked up at site.



Photo 44. PSN 12/14 Site. Tire and construction material found on site.



Photo 45. PSN 12/14 Site. Paint can and construction material discovered near military dump.



Photo 46. PSN 12/14 Site. Paint cans found near motor pool site.

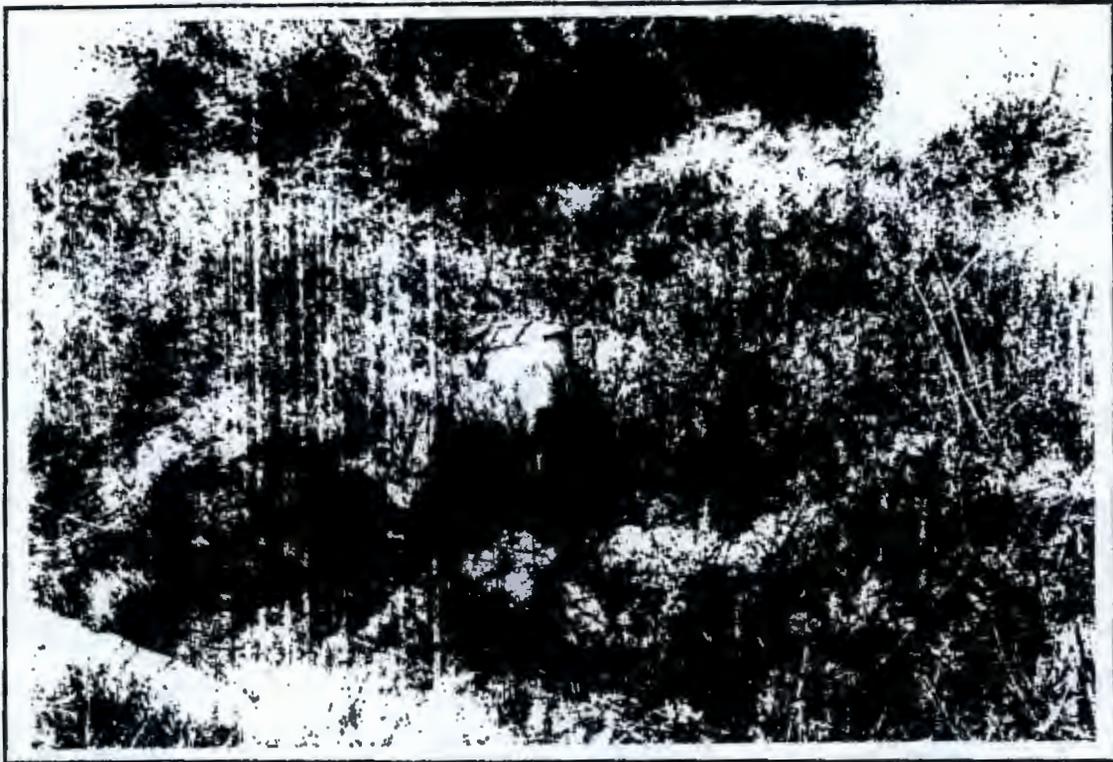


Photo 47. PSN 12/14 Site. Paint cans and timbers. Cans were added to stockpile of potentially hazardous material.



Photo 48. PSN 12/14 Site. Wooden construction material found in sand pit north of site.



Photo 49. PSN 12/14 Site. Transite siding found in sand pit north of site.



Photo 50. PSN 12/14 Site. Tin cans found in large dump site north of site.



Photo 51. PSN 12/14 Site. Wooden construction debris found in large dump site north of site.

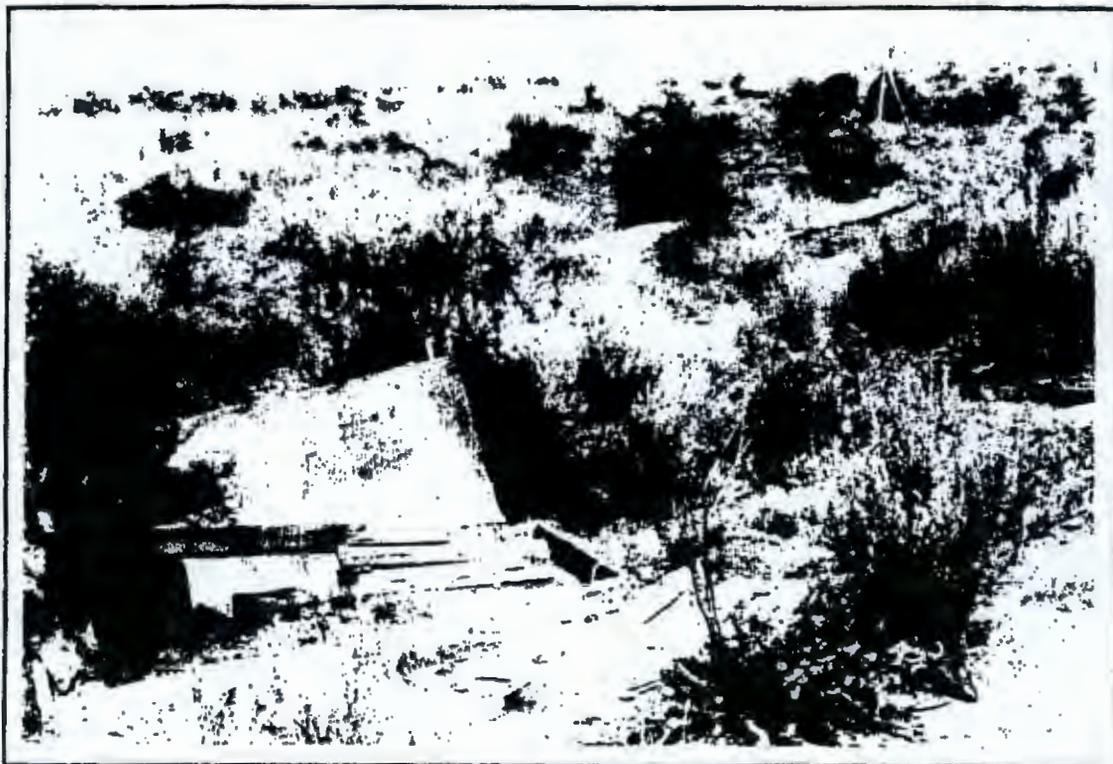


Photo 52. PSN 12/14 Site. Wooden construction debris, metal siding, and oil can found at large dump site.



Photo 53. PSN 12/14 Site. Metal siding stockpiled at large dump site.

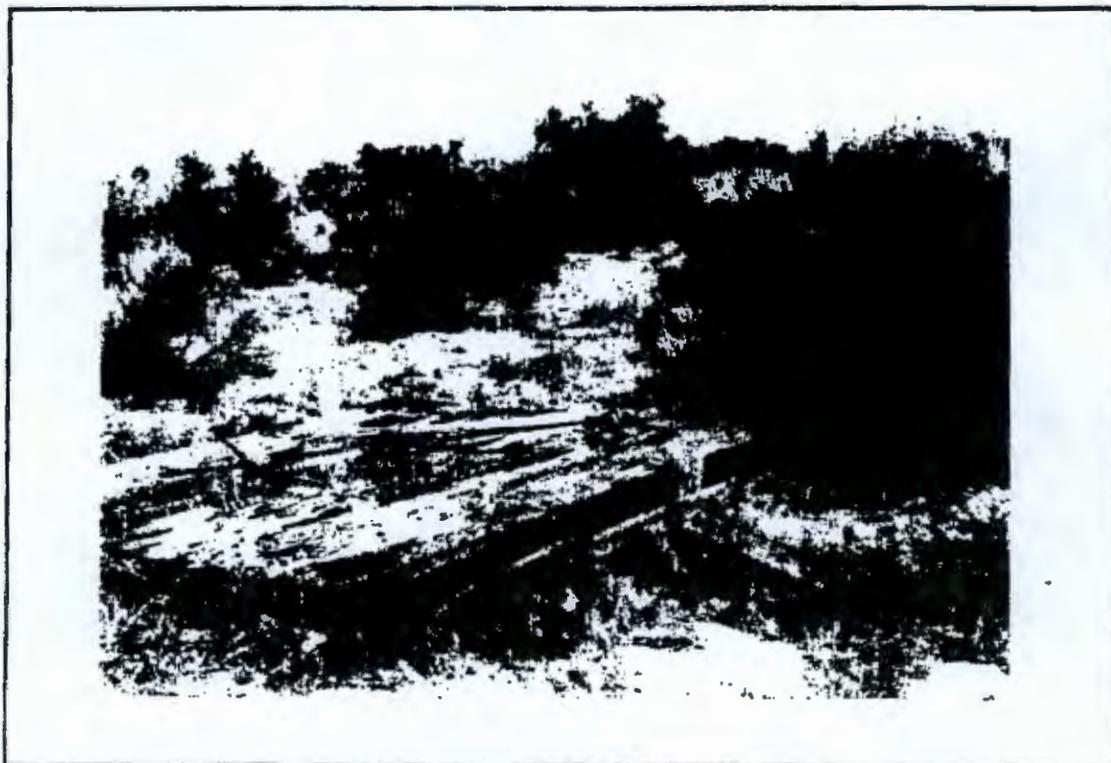


Photo 54. PSN 12/14 Site. Wooden barn door at dump site north of PSN.



Photo 55. H-12-R Site. Debris pile.



Photo 56. H-12-R Site. Site after debris was removed.

SHANNON & WILSON, INC.

APPENDIX D

IMPORTANT INFORMATION ABOUT YOUR ENVIRONMENTAL SITE ASSESSMENT
REPORT

V-0307-01



Dated: October 12, 1994
To: Walla Walla District
Attn: Mr. Randy Chong

Important Information About Your Environmental Site Evaluation/Assessment Report

ENVIRONMENTAL EVALUATIONS/ASSESSMENTS ARE PERFORMED FOR SPECIFIC PURPOSES AND ENTITIES.

This report was prepared to meet the specific needs of a specific site(s). Unless indicated otherwise, we prepared your report expressly for you and for the purposes you indicated. No one other than you should apply this report for its intended purposes without first conferring with us. No party should apply this report for any purpose other than that originally contemplated without first conferring with the engineer/geoscientist.

The findings and conclusions documented in this site evaluation/assessment have been prepared for specific application to this project and have been developed in a manner consistent with that level of care and skill normally exercised by members of the environmental science profession currently practicing under similar conditions in this area. The conclusions presented are based on interpretation of information currently available to us and are made within the operational scope, budget, and schedule constraints of this project. No warranty, expressed or implied, is made.

(REPORT IS BASED ON PROJECT-SPECIFIC FACTORS.

Our environmental site assessment/evaluation is based on, but not limited to, several factors: reviewing public documents to chronicle site ownership for the past 30, 40, or more years; investigating the site's regulatory history to learn about permits granted or citations issued; determining prior uses of the site and those adjacent to it; reviewing available topographic and real estate maps, historic aerial photos, geologic information, and hydrologic data; reviewing readily available published information about surface and subsurface conditions; evaluating the potential for naturally occurring hazards; and interviewing public officials with respect to local concerns.

Except as noted within the text of the report, no quantitative laboratory testing was performed as part of the site assessment. Where such analyses were conducted by an outside laboratory, Shannon & Wilson relied upon the data provided and did not conduct an independent evaluation regarding the reliability of the data.

CONDITIONS CAN CHANGE.

Site conditions, both surface and subsurface, may be affected as a result of natural changes or human influence. An environmental site assessment/evaluation is based on conditions that existed at the time of the evaluation. Because so many aspects of a historical review rely on third party information, most consulting engineers will refuse to certify (warrant) that a site is free of contaminants, as it is impossible to know if such a condition exists. Contaminants may be present in areas that were not surveyed or sampled, or may migrate to areas that showed no signs of contamination when previously studied.

Unless our engineer/scientist indicates otherwise, your report should not be used when: 1) the size or configuration of the site is altered; 2) when the location of the site is modified; 3) when there is a change of ownership and/or use of the property; 4) for environmental subsurface conditions at an adjacent site; 5) for construction at an adjacent site or on site; or 6) in the event of floods, earthquakes, or other acts of God.

READ RESPONSIBILITY CLAUSES CAREFULLY.

Because environmental site assessments/evaluations are based extensively on judgment and opinion, it is far less exact than other design disciplines. This situation has resulted in wholly unwarranted claims being lodged against geotechnical/environmental consultants. To help prevent this problem, geotechnical/civil engineers and/or scientists have developed a number of clauses for use in their contracts, reports, and other documents. These responsibility clauses are not exculpatory clauses designed to transfer the engineer's or scientist's liabilities to other parties; rather, they are definitive clauses that identify where responsibilities begin and end. Their use helps all parties involved recognize their individual responsibilities and take appropriate action. Some of these definitive clauses may appear in this report, and you are encouraged to read them closely. Your engineer/scientist will be pleased to give full and frank answers to your questions.

Consulting engineers/scientists cannot accept responsibility for problems that may develop if they are not consulted after factors considered in their reports have changed. Therefore, it is incumbent upon you to notify your engineer/scientist of any factors that may have changed prior to submission of our final assessment/evaluation.

An assessment/evaluation of a site helps reduce your risk, but does not eliminate it. Even the most rigorous professional assessment may fail to identify all existing conditions.

ONE OF THE OBLIGATIONS OF YOUR CONSULTING ENGINEER/SCIENTIST IS TO PROTECT THE SAFETY, HEALTH, PROPERTY, AND WELFARE OF THE PUBLIC.

If our environmental site assessment/evaluation discloses the existence of conditions that may endanger the safety, health, property, or welfare of the public, we may be obligated (under rules of professional conduct, statutory law, or common law) to notify you and others of these conditions.

DOE/RL-94-139
DRAFT A

SECTION 4

**NORTH SLOPE WELL
DECOMMISSIONING REPORT**

1.0 GENERAL

Fiscal year 1994 Well Decommissioning completed/evaluated all wells required to fulfill the Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) interim milestones. The milestone, M-16-82 (North Slope) was fulfilled when field work was completed October 14, 1994.

A total of eleven wells were decommissioned supporting the North Slope decommissioning project. Several of the wells on the decommissioning list were either utilized or could not be located and assumed decommissioned. Well 699-107-79 (PSN-90 #2) is a water supply well. The South Columbia Basin Irrigation District (SCBID) is utilizing this well. Wells 699-76-90, 699-98-54A, and 699-108-20 were unable to locate, these wells are assumed decommissioned. Well 699-86-64 was determined to be adjacent to the 100 N reactor, South of the Columbia River.

North Slope wells decommissioned included 699-115-7 (DH-4), 699-79-104, 699-61-16A (Foster Ranch), 699-61-16B (Foster Ranch), 699-51-7, 699-70-17, 699-86-95, 699-93-93, 699-92-14, 699-111-24, 699-112-37, and 699-115-61.

1.1 Army Water Supply Wells

A listing of wells designated as Army water supply wells are listed as follows:

699-111-24 (PSN 500-1); 699-86-95 (PSN H83C); 699-92-14 (PSN 505 #9); 699-112-37 (PSN 535 #8); 699-115-61 (PSN 420 #7); and 699-93-93 (PSN H83L). Note: Wells 699-112-37, 699-115-61, and 699-93-93 contained oil products. These wells/constituents will be discussed further in Section 2.0.

1.2 Other Water Supply Wells

A listing of wells designated as water supply wells are listed as follows:

699-61-16A (Foster); 699-61-16B (Foster); and 699-51-7.

1.3 Monitoring Well

Well 699-70-17 (DH-19) was used as a characterization/monitoring well and was decommissioned as part of the North Slope decommissioning project.

2.0 CONTAMINATED WELL DECOMMISSIONING

During North Slope well decommissioning Army water supply wells were determined to contain items/constituents not normally found in wells. The Army wells are located near highway 24 and have public access with the exception of the 699-93-93 well, which is behind

a locked gate. Various items, e.g., cans, steel, aluminum, rocks, railroad ties, syringes, steel cable, oil filters, were discovered in and around these wells. Even a tree was stuffed into a well. Most items were drillable/removeable, but on occasion the final few feet created a problem and could not be drilled out.

The North Slope well decommissioning had three (3) wells that contained hydrocarbon constituents. The method of decommissioning these wells are discussed in Sections 1.2.3.1 through 1.2.3.3.

2.1 Well 699-93-93

A summary of events relative to well 699-93-93 is listed as follows:

- o Camera log is ran and a constituent is found floating on the water. A bone(s) is also located in the well during the camera survey;
- o A sample is obtained from the well and analyzed. The constituent is determined to be halogenated hydrocarbons, which is considered as persistent waste;
- o The analysis was reviewed by safety and the appropriate documentation was prepared to remove the waste from the well, which was conducted using an electric submersible pump and bailer;
- o A second camera ran was conducted to evaluate the bone. The bone(s) could not be located. However, a Pacific NorthWest Biologist reviewed the first tape and believed it to be a bone of a small mammal, which in fact makes good sense comparing the size of the bone with the camera lense. Also, numerous mice were removed from the well prior to taking water samples.
- o A water sample was obtained to determine status of the well after waste removal. The analysis indicated that the water remaining in the well was clean;
- o Decommissioning activities were completed.

2.2 Well 699-112-37

A summary of events relative to well 699-112-37 is listed as follows:

- o Well decommissioning was underway at a depth of 81 m (265 ft) when the plug broke loose and was pushed downward. Rods were ran in the well to 117 m (385 ft). Air was circulated through the drill string to verify circulation. An oil product was noticed at the circulation tank. Work stopped pending evaluation;

- o An electronic tape was ran to determine thickness of the oil. Thickness of the oil was determined to be 12.7 cm (5 in) in a 40.6 cm (16 in) casing;
- o CAM INDUSTRIES was called to conduct field screening. A Miran 1B, equipped with Spectra/Match, was used to screen for 400 plus compounds. An FTIR instrument was also utilized. It was determined that low volatile straight-chain hydrocarbons, which is consistent with used moter oil, existed;
- o Drilling equipment demobilized;
- o The analysis was reviewed by safety and the appropriate documentation was prepared to remove the waste from the well, which was conducted using an electric submersible pump and bailer.
- o The oil was removed from the well-bore. Oil and water samples were taken for analysis.

The water samples missed holding times due to the shipping firm, therefore samples were taken again;

- o Results showed elevated levels of chromium and lead in the waste stream. The water samples came back clean, however water samples were submitted to another laboratory for heavy metals. Results indicated the water to be clean.
- o Well decommissioning was completed.

2.3 Well 699-115-61

A summary of events relative to well 699-115-61 is listed as follows:

- o Well decommissioning was underway at a depth of 129.2 m (424 ft) when the plug was penetrated. An oil product was noticed at the circulation tank. Work stopped pending evaluation;
- o CAM INDUSTRIES was called to conduct field screening. A Miran 1B, equipped with Spectra/Match, was used to screen for 400 plus compounds. An FTIR instrument was also utilized. It was determined that low volatile straight-chain hydrocarbons, which is consistent with used moter oil, existed;
- o Drilling equipment demobilized;
- o The analysis was reviewed by safety and the appropriate documentation was prepared to remove the waste from the well, which was conducted using an electric submersible pump and bailer;

o The oil was removed from the well-bore. Oil and water samples were taken for analysis.

The water samples missed holding times due to the shipping firm, therefore samples were taken again;

o Results showed elevated levels of arsenic, cadmium, chromium and lead in the waste stream. The water samples came back clean, however water samples were submitted to another laboratory for heavy metals. Results indicated the water to be clean.

o Well decommissioning was completed.

3.0 LOCATIONS OF WELL DECOMMISSIONINGS

Table 1 provides Hanford and State coordinates for North Slope wells.

TABLE 1.

| WELL NUMBER | STATE COORDINATES | HANFORD COORDINATES |
|-------------|-----------------------------|---------------------|
| 699-70-17 | N 475,644.24 E 2,277,824.59 | N 70,387 W 17,320 |
| 699-107-79 | N 512,000 E 2,216,200 | N 107,000 W 78,890 |
| 699-61-16A | N 466,729 E 2,279,494 | N 61,467 W 15,673 |
| 699-61-16B | N 466,730 E 2,279,500 | N 61,450 W 15,700 |
| 699-51-7 | N 456,284 E 2,288,194 | N 51,000 W 7,000 |
| 699-115-61 | N 519,779 E 2,234,474 | N 114,633 W 60,557 |
| 699-112-37 | N 516,945 E 2,258,469 | N 111,737 W 36,569 |
| 699-93-93 | N 498,000 E 2,202,000 | N 93,000 W 93,000 |
| 699-111-24 | N 516,240 E 2,271,040 | N 111,000 W 24,000 |
| 699-86-95 | N 491,058 E 2,200,105 | N 86,000 W 95,000 |
| 699-92-14 | N 497,266 E 2,281,000 | N 92,000 W 14,000 |

ATTACHMENT 1

**WESTINGHOUSE HANFORD COMPANY
GENERATOR & WASTE ACCEPTANCE SERVICES
PREDETERMINATION REPORT**

Page 1

REQUEST # 24500

DATE: July 28, 1994

| | |
|----------------|---|
| PRODUCT | PREDETERMINATION OF UNKNOWN OIL MATERIAL STILL IN N. SLOPE WELL |
|----------------|---|

| | | | |
|-----------------|-------------|----------------|----------|
| TO | Scott Myers | COMPANY | WHC |
| PHONE | 376-7619 | ADDRESS | WNP-TR57 |
| FACILITY | EFGS | MSIN | N3-06 |

| | | | | | |
|-----------------|-------------------------------|-------------|-------|--------------|----------|
| ANALYST | K. W. Chang <i>K.W. Chang</i> | MSIN | T3-05 | PHONE | 372-0679 |
| REVIEWER | <i>Richard J. ...</i> | MSIN | T3-05 | PHONE | |
| cc | File | | | | |

Based upon lab. data provided with the request, the oil material in N. Slope is considered to be regulated waste by current Washington Dangerous Waste Regulations (WAC 173-303), with waste code of WP02. (The unknown oil material may contain up to 0.0778% of halogenated hydrocarbons, which is considered as persistent waste.)

For any questions or comments, please contact the Generator & Waste Acceptance Services analyst above and reference the request #. Thank you for your interest in predetermination.

DISCLAIMER

This predetermination is believed accurate based on the information provided. Predeterminations are performed to assist generators in selecting less hazardous products. Since solid waste regulations are subject to constant revision, waste status may change without notice. Waste designations must be performed on all wastes by Generator & Waste Acceptance Services to assure proper disposal in the event products are spilled or contained within a waste matrix.

**Westinghouse
Hanford Company**

**Internal
Memo**

From: 222-S Organic Chemistry
Phone: 373-2872 T6-50
Date: June 21, 1994
Subject: ANALYTICAL RESULTS - R5202

8E460-94-006

To: W. V. SETZER N3-05

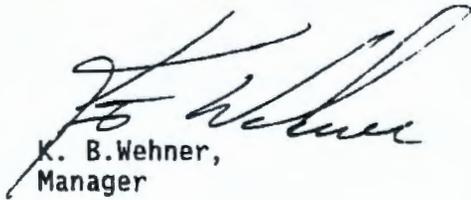
The following sample was analyzed by gas chromatography/mass spectroscopy. The preparation and analysis was performed using a Test Plan. The objective of the Test Plan was to tentatively identify high concentrations of organic chemical contained in the sample. Tentative compound identification was based on computerized matching of mass spectra with that of spectra contained in the National Bureau of Standards Library and knowledge of mass spectral fragmentation patterns.

Laboratory ID: R5202 Submitted by: W. V. Setzer
Customer ID: 9393(B) Matrix: Liquid
Laboratory submittal date: 04/29/94

TENTATIVELY IDENTIFIED COMPOUNDS:

The sample was found to contain a mixture of hydrocarbons. Based on the large envelope and a comparison to other products, it was concluded that the sample contained a heavy oil or petroleum based product of similar type.

If there are any questions regarding this data, please call.


K. B. Wehner,
Manager

SZ

PREDETERMINATION REPORT

REQUEST #: 24929

DATE: October 5, 1994

| | | | | | |
|-----------------|---|----------------|---------------------|--------------|----------|
| PRODUCT | PREDETERMINATION OF GROUND WATER FROM NORTH SLOPE WELLS | | | | |
| TO | D. E. Skoglie | COMPANY | WHC | | |
| PHONE | 376-2341 | ADDRESS | WNP-TR057, 400 AREA | | |
| FACILITY | Well Services | MSIN | N3-05 | | |
| ANALYST | K. W. Chang <i>KW Chang</i> | MSIN | T3-05 | PHONE | 372-0679 |
| REVIEWER | <i>Richard J. Anderson 10-7-94</i> | MSIN | T3-05 | PHONE | |
| cc | File | | | | |

According to current state and federal laws (WAC 173-303 and 40 CFR 261) and based upon lab. data submitted with the request, the three samples of North Slope site wells are all to be considered non-regulated waste water. For questions or comments, please contact the Generator & Waste Acceptance Services analyst above and reference the request #. Thank you.

| Item # | MSDS # | Product/Material | REGULATED ? | | | | Possible Waste Codes |
|-------------------|--------|--|----------------|--------------|-----------------|-----------------------|----------------------|
| | | | Unused Product | Used Product | Empty Container | Rags with 10% Product | |
| -93 -61 -37 | (n/a) | Ground Water Samples, North Slope Site | | | | | none |
| | | | | | | | |

Comments:

cc:
 Scott E. Myers N3-06
 Marty G. Gardner N3-06

ATTACHMENT 2

PREDETERMINATION REPORT

REQUEST #: 24929

DATE: October 5, 1994

| | | | | | |
|-----------------|---|----------------|---------------------|--------------|----------|
| PRODUCT | PREDETERMINATION OF GROUND WATER FROM NORTH SLOPE WELLS | | | | |
| TO | D. E. Skoglie | COMPANY | WHC | | |
| PHONE | 376-2341 | ADDRESS | WNP-TR057, 400 AREA | | |
| FACILITY | Well Services | MSIN | N3-05 | | |
| ANALYST | K. W. Chang <i>KW Chang</i> | MSIN | T3-05 | PHONE | 372-0679 |
| REVIEWER | <i>Richard J. ... 10-7-94</i> | MSIN | T3-05 | PHONE | |
| cc | File | | | | |

According to current state and federal laws (WAC 173-303 and 40 CFR 261) and based upon lab. data submitted with the request, the three samples of North Slope site wells are all to be considered non-regulated waste water. For questions or comments, please contact the Generator & Waste Acceptance Services analyst above and reference the request #. Thank you.

| Item # | MSDS # | Product/Material | REGULATED ? | | | | Possible Waste Codes |
|-------------------|--------|--|----------------|--------------|-----------------|-----------------------|----------------------|
| | | | Unused Product | Used Product | Empty Container | Rags with 10% Product | |
| -93 -61 -37 | (n/a) | Ground Water Samples, North Slope Site | | | | | none |
| | | | | | | | |

Comments:

cc:
 Scott E. Myers N3-06
 Marty G. Gardner N3-06



424B 9th St. Prosser WA 99350

Environmental Products and Services

(509) 786-4554

August 16, 1994

Nancy Speaker Nething, R.G.
Consulting Groundwater Geologist
STACO Well Services
220 Academy St.
Mt. Angel, OR 97362

Dear Ms. Nething:

This letter is to explain field screening data obtained on August 15, 1994.

A Miran 1B, equipped with Spectra/Match, was used to screen for 400 plus compounds. An FTIR instrument was also used.

We have analyzed the data generated by Spectra/Match and have determined that it is highly unlikely anything exists in this well except for low volatile straight-chain hydrocarbons consistent with used motor oil.

When looking at data from Spectra/Match it is important to note that "Hit List" data is inconclusive, (i.e., non-detect) with HQIs greater than 1.5. Therefore, you will notice nothing was detected in that parameter.

I am also including the Spectra/Match Library List of compounds for your review. If you have any questions, please call.

Sincerely,

Cary A. Martin
President
CAM Industries
424B 9th Street
Prosser, WA 99350
(509) 786-4554
FAX (509) 786-4555

ARDL, INC.
 Rt. 15E, Mt. Vernon Airport Industrial Park
 Mt. Vernon, Illinois 62864

Report Date: 12 Sep 84

| | | | |
|--|--|------------------------------------|--------------|
| Project Name: NORTH SLOPE | | Analysis: Inorganics | |
| Project No.: -- | | Matrix: waste | Units: mg/kg |
| QC Identifier: | | QC Batch Nos.: 1548P (Method 3050) | |
| Customer Sample No.: 888-112-37-8184DL | | 1548F (Method 3050) | |
| ARDL No.: 8870-2 | | | |

| Analyte | Detection Limits | Results | Prep Method | Analysis Method | Prep Date | Analysis Date |
|---------------------|------------------|---------|-------------|-----------------|-----------|---------------|
| Arsenic (GFAA) | 0.40 | < 0.40 | 3050 | 7080 | 08 Sep 84 | 12 Sep 84 |
| Cadmium | 0.50 | < 0.50 | 3050 | 8010 | 08 Sep 84 | 08 Sep 84 |
| Chromium | 0.50 | 1.5 | 3050 | 8010 | 08 Sep 84 | 09 Sep 84 |
| Lead (ICP) | 2.5 | 2.8 | 3050 | 8010 | 08 Sep 84 | 09 Sep 84 |
| Flashpoint (Deg. F) | -- | > 200 | -- | 1010 | -- | 08 Sep 84 |
| TOX | 30.8 | 187 | -- | 8020A | -- | 08 Sep 84 |

1D
PCB ORGANIC ANALYSIS

Customer Sample No.

699-112-37-9194DL

Lab Name: ARDL, Inc.
Lab Code: _____ Case No.: 9870

Contract: NORTH SLOPE
SAS No.: _____ SDG No.:

Matrix(soil/water) : WASTE
Sample(wt/vol) : 1.0 (g/mL) g
Level(low/med) : LOW
& Moisture(not dec): ---
Extraction(Sepf/Conc/Sonc) Dilution
GPC Cleanup (Y/N): N pH: ---
Final Extraction Volume: 10 mL

Lab Sample ID : 9870-2
Lab File ID :
Date Received : 09-06-94
Date Extracted : 09-08-94
Date Analyzed : 09-08-94
Dilution Factor: 1.0

| Cas No. | Compound | Concentration Units: | | Q |
|------------|--------------|----------------------|-------|---|
| | | (ug/L or ug/Kg) | ug/Kg | |
| 12674-11-2 | Aroclor 1016 | 6500 | U | |
| 11104-28-2 | Aroclor 1221 | 6500 | U | |
| 11141-16-5 | Aroclor 1232 | 6500 | U | |
| 53469-21-9 | Aroclor 1242 | 6500 | U | |
| 12672-29-6 | Aroclor 1248 | 6500 | U | |
| 11097-69-1 | Aroclor 1254 | 13000 | U | |
| 11096-82-5 | Aroclor 1260 | 13000 | U | |

ATTACHMENT 3

PREDETERMINATION REPORT

REQUEST #: 24929

DATE: October 5, 1994

| | |
|----------------|---|
| PRODUCT | PREDETERMINATION OF GROUND WATER FROM NORTH SLOPE WELLS |
|----------------|---|

| | | | |
|-----------------|---------------|----------------|---------------------|
| TO | D. E. Skoglie | COMPANY | WHC |
| PHONE | 376-2341 | ADDRESS | WNP-TR057, 400 AREA |
| FACILITY | Well Services | MSIN | N3-05 |

| | | | | | |
|-----------------|-------------------------------|-------------|-------|--------------|----------|
| ANALYST | K. W. Chang <i>KW Chang</i> | MSIN | T3-05 | PHONE | 372-0679 |
| REVIEWER | <i>Richard J. ... 10-7-94</i> | MSIN | T3-05 | PHONE | |
| cc | File | | | | |

According to current state and federal laws (WAC 173-303 and 40 CFR 261) and based upon lab. data submitted with the request, the three samples of North Slope site wells are all to be considered non-regulated waste water. For questions or comments, please contact the Generator & Waste Acceptance Services analyst above and reference the request #. Thank you.

| Item # | MSDS # | Product/Material | REGULATED ? | | | | Possible Waste Codes |
|-------------------|--------|--|----------------|--------------|-----------------|-----------------------|----------------------|
| | | | Unused Product | Used Product | Empty Container | Rags with 10% Product | |
| -93 -61 -37 | (n/a) | Ground Water Samples, North Slope Site | | | | | none |
| | | | | | | | |

Comments:

cc:
 Scott E. Myers N3-06
 Marty G. Gardner N3-06

ARDL, INC.
 Rt. 15E, Mt. Vernon Airport Industrial Park
 Mt. Vernon, Illinois 62864

Report Date: 12 Sep 84

| Project Name: NORTH SLOPE | | Analysis: Inorganics | | | | |
|---|------------------|---|-------------|-----------------|---------------------|---------------|
| Project No.: - | | Matrix: waste | | | Units: mg/kg | |
| QC Identifier: | | QC Batch Nos.: 1548P (Method 3050) | | | | |
| Customer Sample No.: 889-115-81-8184DL | | 1548F (Method 3050) | | | | |
| ARDL No.: 8870-1 | | | | | | |
| Analyte | Detection Limits | Results | Prep Method | Analysis Method | Prep Date | Analysis Date |
| Arsenic (GFAA) | 0.40 | 2.8 | 3050 | 7080 | 08 Sep 84 | 12 Sep 84 |
| Cadmium | 0.50 | 1.1 | 3050 | 8010 | 08 Sep 84 | 08 Sep 84 |
| Chromium | 0.50 | 18.0 | 3050 | 8010 | 08 Sep 84 | 08 Sep 84 |
| Lead (ICP) | 2.5 | 78.8 | 3050 | 8010 | 08 Sep 84 | 08 Sep 84 |
| Flashpoint (Deg. F) | -- | > 200 | -- | 1010 | -- | 08 Sep 84 |
| TOX | 18.7 | 103 | -- | 8020A | -- | 08 Sep 84 |

1D
PCB ORGANIC ANALYSIS

Customer Sample No.

699-115-61-9194DL

Lab Name: ARDL, Inc.
Lab Code: _____ Case No.: 9870

Contract: NORTH SLOPE
SAS No.: _____ SDG No.:

Matrix(soil/water) : WASTE
Sample(wt/vol) : 30.0 (g/mL) g
Level(low/mad) : LOW
% Moisture(not dec): ---
Extraction(Sepl/Conc/Sonc) SONC
GPC Cleanup (Y/N): N pH: ---
Final Extraction Volume: 1.0 mL

Lab Sample ID : 9870-1
Lab File ID :
Date Received : 09-06-94
Date Extracted : 09-08-94
Date Analyzed : 09-09-94
Dilution Factor: 1.0

| Cas No. | Compound | Concentration Units: | | Q |
|------------|--------------|----------------------|-------|---|
| | | (ug/L or ug/Kg) | ug/Kg | |
| 12674-11-2 | Aroclor 1016 | 80 | U | |
| 11104-28-2 | Aroclor 1221 | 80 | U | |
| 11141-16-5 | Aroclor 1232 | 80 | U | |
| 53469-21-9 | Aroclor 1242 | 80 | U | |
| 12672-29-6 | Aroclor 1248 | 80 | U | |
| 11097-69-1 | Aroclor 1254 | 160 | U | |
| 11096-82-5 | Aroclor 1260 | 160 | U | |