

Meeting Minutes Transmittal/Approval
Unit Managers' Meeting: Remedial Action and Waste Disposal Unit/Source Operable Unit
3350 George Washington Way, Room 1B40, Richland, Washington
January 22, 1998

FROM/APPROVAL: Date 2-19-98
Nancy Werdel/Glenn Goldberg, 100 Area Unit Managers, RL (H0-12)

APPROVAL: Date 2-19-98
Wayne Soper/Keith Holliday, 100 Aggregate Area Unit Manager,
Ecology (B5-18)

APPROVAL: Date 2-19-98
Dennis Faulk, 100 Aggregate Area Unit Manager, EPA (B5-01)

APPROVAL: N/A (200 Area did not meet) Date _____
Bryan Foley, 200 Area Unit Manager, RL (H0-12)

APPROVAL: N/A (200 Area did not meet) Date _____
Shri Mohan, 200 Area Project Manager, Ecology (B5-01)

APPROVAL: Date 2/19/98
Ted A. Wooley, B-Plant/WESF Project Manager, Ecology (B5-18)

APPROVAL: Date Feb 19, 1998
Robert G. McLeod, 300 Area Unit Manager, RL (H0-12)

APPROVAL: N/A (did not attend meeting) Date _____
Jeanne Wallace, 300 Aggregate Area Unit Manager, Ecology (B5-18)

APPROVAL: Date 19 Feb 98
David R. Einan, 300 Aggregate Area Unit Manager, EPA (B5-01)

APPROVAL: Date 2/19/1998
Ted A. Wooley, 200 Area Process Trenches Subproject Manager,
Ecology (B5-18)

Meeting Minutes are attached. Minutes are comprised of the following:

Attachment #1	100 Area Agenda
Attachment #2a	300 Area Attendance Record
Attachment #2b	100 Area Attendance Record
Attachment #3	Meeting Minutes
Attachment #4	Status Package
Attachment #5	WIDS Information Handout
Attachment #6	C-1 Test Pit Sample Results
Attachment #7	107-D Sludge Pit Strategy/Information
Attachment #8	Landfill 1B Proposal Package
Attachment #9	300 Area Process Trenches – Headworks Concrete Results Summary
Attachment #10	Headworks Concrete Qualification Summary/Evaluation

Prepared by:

Michelle Peterson Date 3/2/98
Gary Gesell/Michelle Peterson/Tamen Lundquist (H0-17)

Concurrence by:

J. Dronen Date 3/2/98
Vern Dronen, BHI Remedial Action and Waste Disposal Project Manager
(H0-17)

056704

UNIT MANAGERS' MEETING AGENDA – 100 AREA
3350 George Washington Way, Room 1A14
January 22, 1998, 1:00 p.m.

Remedial Action

- Group 3 and 4 Procurement Schedule
- C-1 Test Pit Status
- 107-D4 Sludge Pit Closeout Strategy
- MCL Groundwater Standards for Radionuclides

100 Area Assessments

- WIDS Online Demonstration
- Status for Appendix C Update
- 100 Area Remaining Sites - AR Document and Proposed Plan (Status of Regulatory Review)
- 100-D Ponds - Closure Plan (Status of Regulatory Review)
- Open Discussion of RDR/100 Area SAP
- Status of 100-IU-1/3 Partial Delisting

NOTE: Due to a schedule conflict with the unit manager, the 300 Area UMM was rescheduled for January 16.

The agenda for the 300 Area UMM was not distributed and, thus, is not included in this package.

**Remedial Action and Waste Disposal Unit Managers' Meeting
Official Attendance Record, 100 Area
January 22, 1998**

056704

Please print clearly and use black ink.

Printed Name	Organization	O.U. Role	Telephone
A.L. LANGSTAFF	BHI	100 Area	3-5876
F.M. CORPUZ	BHI	100 Area Engr.	3-1661
CE CORRIVEAU	BHI	100 Area	2-9565
Keith Holliday	Ecology	D-Area P.M.	736-3036
Phyllis	Ecology	D Area	736-3029
Dave Finan	EPA		376-3982
Wayne Soper	Ecology	H Area	736-3049
WALTER REMSEN	BHI	100 Area	2-9620
Chuck Hedel	ERC	100 Area	2-9637
Greg Mitchem	BHI	100 ASSES TASK LEAD	2-9632
David Olson	DOE	100-N P.M.	376-7142
Nancy Werdel	DOE	100 BC PM	376-5500
Dennis Faulk	EPA		
Arlene Tortoso	DOE	100 Area	373-9631
Rick Donohue	BHI	100	531-0654
Larry Gadbois	EPA	Proj Mgr.	376-9884
Jeff Shearer	BHI	NA	372-9348
Linda Dietz	BHI	NA	372-9378
Michelle Peterson	BHI	RAWD Editor	372-9516

MEETING MINUTES

**REMEDIAL ACTION AND WASTE DISPOSAL
UNIT MANAGERS' MEETING -- 100 AREA
January 22, 1998**

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NOTE: A Unit Managers' Meeting did not take place in December 1997, as agreed to by all parties.

Attendees: See Attachment #2b.

Agenda: See Attachment #1 for copy of meeting agenda.

Topics of Discussion:

100 Area Assessments

1. WIDS Online Demonstration — A demonstration was provided by Linda Dietz and Jeff Shearer on how EDV/WIDS has improved and on various user interfaces. Contact Linda Dietz at 375-WIDS for further information and/or to have WIDS installed on your computer system. A handout was provided containing additional information on WIDS (Attachment #5).
2. Status of Appendix C Update — DOE-RL has developed a strategy to update TPA Appendix C, Rev. 4. Updates for the 100 Areas will take place first, to be followed by the 300 Area and 200 Areas, respectively. The TPA Change Control package for the 100 Areas is being drafted and is planned to be signed by individual operable unit managers and project managers (probably at an upcoming IAMIT meeting).

The mutual interdependencies among draft TPA Procedure MG-08, the 100 Areas Remaining Sites AR document and Proposed Plan (discussed below), and the updating process for the 100 Areas portion of the TPA Appendix C were discussed. It was noted that draft TPA Procedure MG-08 must be finalized and signed by the three parties before the TPA Change Packages for updating Appendix C can be approved. DOE-RL is working with Ecology to resolve Ecology's comments on TPA Procedure MG-08 I.

3. 100 Area Remaining Sites - AR Document and Proposed Plan (Status of Regulatory Review) — The 100 Areas TPA Change Control Package for updating TPA Appendix C, Rev. 4, is dependent not only on completion of MG-08, but also on finalizing the AR Document (DOE/RL-94-61, App. N) and Proposed Plan (DOE/RL-94-83). DOE-RL proposed a meeting with EPA and Ecology to discuss regulatory agency comments on the documents, as well as several outstanding issues, including the 20 waste sites in the "Pending" category and 36 sites in the "Other Regulatory" programs category. The regulatory agencies indicated that such a meeting will occur after EPA and Ecology are able to meet jointly to discuss their comments before presenting the comments to DOE-RL. However, a date for the regulators' meeting has not yet been established. Generally, EPA responded favorably to the AR Document but

has concerns about the length of the Proposed Plan. EPA indicated a willingness to respond to DOE-RL with comments within the 45 days (i.e., in early to mid-February) allowed by the TPA for agency review of primary documents.

4. 100-D Ponds - Closure Plan (Status of Regulatory Review) — The plan is currently in a 60-day review with Ecology. Review comments are due to DOE-RL on or about February 23, 1998.
5. Status of 100-IU-1/3 Partial Delisting — EPA indicated that work is underway, with completion targeted for the mid-April timeframe. Regulatory support from DOE-RL and ERC is not anticipated by EPA.

Eight "Discovery Sites" have been recorded in the 100-IU-1 and 100-IU-3 operable units in the WIDS database since the March 1996 ROD for the 100-IU-1, -3, -4, and -5 operable units was issued. A field visit to these sites is planned for January 26, 1998, with participation planned from EPA, Ecology, DOE-RL, and ERC. The purpose of the visit will be to evaluate the eight Discovery Sites and provide a recommendation for "Accept" or "Reject" in the WIDS database.

6. Open Discussion of RDF/100 Area SAP — EPA and Ecology are currently reviewing the plan and will respond in early to mid-February (i.e., within the 45 days allowed by the TPA).

Remedial Action

1. C-1 Test Pit Status — R. Donohoe and F. Corpuz provided status, stating that the work was completed and that all went well. Handouts were provided of the laboratory testing results, plotted with depth (see 4 sheets provided in Attachment #6), indicating that the conclusions are not immediately apparent, and an analysis using RESRAD will need to be run for a final determination. Additional information will be provided at the next 100 Area UMM. EPA would like to obtain this information by early February to use for a presentation to the ER Subcommittee.

A meeting will be held on February 9 with Ecology, EPA, DOE-RL, and BHI to discuss what will be presented to the ER Subcommittee and for BHI to provide input/results in support of EPA for that meeting.

2. 107-D Sludge Pit Closeout Strategy — A handout was provided (see 4 sheets provided in Attachment #7). Potential cost-saving measures (reduction in closeout/verification laboratory testing costs) were discussed to excavate the footprint to depth of engineered structure of the sludge pit (located within the lateral and vertical limits of the 116-D7 retention basin excavation and known lateral plume to the north), perform gamma speciation testing of the excavation limits only, and document/identify that the waste site has been removed and that remaining contamination would be removed as part of the 116-D7 waste site. Target date for the start of 107-D excavation is March 1, with an approximate one-month period for subcontractor completion. In general, EPA and Ecology expressed concern in lumping 107-D5 with 116D-7, particularly if 107-D5 had

waste site COCs that were not common with 116-D7, other than gamma-emitting radionuclides.

A meeting will be held on February 19 at the 107-D5 site (100-D Group 2 sites) with Ecology and DOE-RL, and EPA requested to attend to discuss this and other site-specific issues.

3. Group 3 and 4 Procurement Schedule — As of today, to keep flows going to ERDF, an RFP will go out in September/October. Need to approve the RDR. Upcoming milestones and their status were discussed. Will be looking at how remedial actions are currently performed and on remedial action schedules.
4. MCL Groundwater Standards for Radionuclides — D. Faulk will check on these standards and provide information at next month's 100 Areas UMM.
5. Other Discussion — F. Corpuz mentioned that the 107-D5 and 116-C1 verification packages are currently being finalized. EPA and Ecology indicated that the format for the 116B-5 verification package has already been approved and should be used as the template for writing the 107-D5 and 116-C1 reports. The outline for the approved format was presented in the RDR.

NOTE: The January 200 Area UMM did not take place.

**REMEDIAL ACTION AND WASTE DISPOSAL
UNIT MANAGERS' MEETING – 300 AREA
January 16 and 21, 1998**

Attendees: See Attachment 2a.

Agenda: The agenda for this meeting was not distributed.

Topics of Discussion:

300-FF-1

NOTE: The meeting was held on January 16, 1998, from 1:00 to 2:30 p.m. in Room 2B59 at 3350 George Washington Way. Several agenda items were not addressed due to time constraints, and a follow-up meeting was held on January 21, 1998, from 12:30 to 3:00 p.m. at the MO-059, 300-FF-1 Construction Office conference room.

Remedial Action Status

1. **Landfill 1D** -- The discussion primarily focused on lead-contaminated soils identified during in-process field screening on January 9. All containers that were filled on January 9 and the following Monday were sampled and analyzed for total lead content using the field screening XRF instrument. The XRF results indicated all the containers had lead total concentrations over 100 ppm and up to approximately 900 ppm. The containers are on hold in the que. No more containers were filled, and work was put on hold in Landfill 1D, effective January 13. Several samples spanning the range of total values were sent offsite for ICP and TCLP analysis in an attempt to develop a totals-to-TCLP correlation. Preliminary results indicate there does not appear to be totals/TCLP correlation. The remaining waste will be processed in the landfill (approximately 6 ft remains) and stockpiled within the AOC. Thus, the sorting process will be completed and when the lead- contaminated soils are excavated, the operation can be performed in level D versus level B.
2. **Process Trenches** -- The current plan is to mobilize back to the Process Trenches after the stockpiling is completed at Landfill 1D in approximately 1 to 2 weeks. The plan is to mobilize to the Process Trenches and excavate and process all materials that require heavy equipment to move. This would be done in the "window" between demobilizing at Landfill 1D and mobilizing at the 618-4 Burial Ground. Several agenda items affect this operation and the overall closure schedule, which are addressed below.

3. Landfill 1B Proposed Approach -- R. Carlson presented the results of a GPR and EMI survey for the portion of Landfill 1B that was not surveyed during the RI. The results strongly indicate that the northern portion of the Landfill is native soil and is free of anomalies; only one small anomaly was detected. A proposal to reduce the area of the Landfill and the excavation approach were tentatively agreed to by D. Einan. Attachment #8 summarizes the discussion. An NPL agreement form will be prepared to formally document the agreement.
4. Process Trenches Permit Modifications -- The headworks concrete results are summarized in Attachment #9. In summary, a brief "heads up" was provided regarding three new 300 Area Process Trenches (APT) Closure Plan permit modifications that are in process. The modifications result from an internal surveillance for 300 APT remedial action permit compliance. The permit modifications would be submitted as Class 3s with request to downgrade to Class 1s. There should be no problems with Ecology approving the new modifications, as requested.

Also discussed were two permit modification requests submitted last June that were recently rejected by Ecology. It was agreed that minor wording revisions would address the issue. It was agreed that the two June permit modification requests would be rewritten and resubmitted with the new permit modification requests.

How institutional controls will be implemented at the Process Trenches during post-closure was discussed. A monitoring and maintenance plan will be prepared, as currently required in the 300 APT Post-Closure Plan, and submitted for review and concurrence by Ecology. The scope of that plan is directly related to the closure option chosen for the soils. It is believed that the Process Trenches post- and pre-ERA data and the verification soils data meet MTCA Method B cleanup values, such that closure by removal is prudent to pursue. This would limit the scope of the monitoring and maintenance plan to groundwater. Ecology indicated that DOE-RL needs to submit a letter with the appropriate data and analysis to Ecology to request closure by removal.

5. Headworks Data Validation -- Attachment #10 provides the results of the 300 APT concrete headworks data validation. The information is presented to close out the concrete headworks contained-in determination letter from Ecology indicating rejected validation data may also invalidate the contained-in. One data set was rejected for volatiles. The results were non-detects, but the surrogate recovery failed. This is a typical problem with concrete matrices. After the review, T. Wooley indicated that he did not have any problems with the validation data affecting the contained-in determination.
6. Sluice Gates Contained-In -- This item was discussed to remind Ecology that based on the project schedule, it would be very helpful if the sluice gate contained-in could be written ASAP. Ecology indicated that there are no issues with writing the letter, and it will be issued soon.
7. Process Trenches Resampling -- One verification sample came back at 360 pCi/g in the Process Trenches UCL area. The cleanup standard is 350 pCi/g. All the chemical data was non-detect or well below the cleanup standards. The hot spot will be excavated. The discussion was related to how many samples are required after the hot spot is removed. It was agreed that one replacement sample in the

area of hot spot removal is appropriate for the given site conditions. The laboratory analysis must include all contaminants of concern. It was agreed that any hot spot removal that would remove more than one sample location would require the same number of replacement samples as removed, including analysis for all the contaminants of concern.

8. Statistics on Non-Detects -- Ecology agreed that for the Process Trenches verification package, where contaminant results are all non-detect, that no statistical analysis is required as long as the reported levels of the non-detects are orders of magnitude below the cleanup standards. This is likely for the MTCA Method C industrial cleanup standards. However, statistics would still be required to support the MTCA Method B, closure by removal request.
9. Process Trenches Inlet Pipe -- While excavating soils around the inlet pipe to the headworks structure to prepare to cap the pipe, the pipe was surveyed and found to be radiologically contaminated. Therefore, it is expected that the pipe will need to be excavated and disposed and will also require a contained-in determination.

300-FF-2

1. Groundwater Sampling -- Groundwater sample disposal has made progress. Sample results were delivered to ERC Waste Management Staff, who then forwarded the results to staff at the 200 Area Effluent Treatment Facility (ETF). If the ETF agrees to dispose of the groundwater samples, the ERC will make arrangements to deliver the samples to the ETF. The first round of FY 1998 groundwater sampling is scheduled to be completed by the end of January 1998. Sampling was temporarily delayed due to weather and frozen water in the purge trucks. Sampling will be finished by next week (January 19).

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STATUS PACKAGE
UNIT MANAGERS' MEETING - FEBRUARY 1998
SOURCE OPERABLE UNITS

100-B/C, 100-K, 100-D, 100-H, 100-F

200 AREAS

300 AREA

Prepared by DOE-RL

02/19/98

100 AREAS

100 Area Burial Ground Focused Feasibility

Following identification of key issues and agreement on an annotated report outline with the U.S. Environmental Protection Agency (EPA) and the Washington State Department of Ecology (Ecology) in late November, feasibility studies are underway. Initial activities involve development and internal review of draft report sections on background information and the nature and extent of contamination, as well as technology screening and alternative development.

100 Area Remaining Sites

Draft A of the Administrative Record document and the Proposed Plan for the Remaining Sites project were submitted to EPA and Ecology on December 23, 1997, for a 45-day technical review period. The agency's review is concurrent with the RL review cycle. Written review comments from the regulatory agencies to RL are expected by February 6, 1998.

At the IAMIT meeting of January 27, 1998, it was decided that the Remaining Sites project schedule for the Proposed Plan, public comment, and ROD preparation would be aligned with the K-Basins Project, which is managed by the Project Hanford Management Contractor, Fluor Daniel Hanford, Inc. The public comment period for the K-Basins Proposed Plan is approximately August 1998, in contrast to the currently planned March/April public comment time frame for the Remaining Sites project. Efforts are underway to move the K-Basins public comment schedule forward to more closely align with the Remaining Sites schedule. Final plans are expected to be formulated in late February 1998.

100-D Area Soil Sampling

Laser-induced breakdown spectroscopy (LIBS), an emerging technology for characterizing subsurface soils, is planned for use in the 100-D Area to detect chromium. Deployment, originally scheduled for October, has been delayed several times at the subcontractor's request. Currently, mobilization to Hanford is planned for mid-April 1998. The delays are due to technical difficulties that the subcontractor is experiencing with instrumentation and the subcontractor's associated funding issues. Efforts to manage the subcontractor's delays include requesting a commitment to a firm schedule and providing assistance in addressing the subcontractor's funding issues. In addition, RL and ERC have contacted other LIBS providers and have looked into alternative vadose zone characterization methods.

100-D Ponds Closure Plan Revision

On December 23, 1997, RL transmitted the revised document to Ecology to begin a 60-day agency review cycle. Written comments to RL are expected by approximately February 23, 1998.

2,4-D Burial Site (Waste Site 600-104)

Final approval of closure documentation was provided by Ecology on January 27, 1998, concluding remedial action activities at this site.

Partial Delisting of 100-IU-1 and 100-IU-3 Operable Units

In response to a request from EPA, RL has authorized ERC to provide regulatory and technical support for partial delisting of the 100-IU-1 and 100-IU-3 Operable Units from the National Priorities List. This work will proceed after EPA finalizes their plans for this action.

Group 3 Sites

A procurement strategy was developed, and a bid package for the Group 3 sites is being prepared. The bid package will also include the remediation of the remaining 100-B/C effluent pipelines.

Group 4 Sites

The Air Monitoring Plan (which includes Group 3 sites) was presented to the Washington State Department of Health and the regulators on November 25, 1997. Meeting minutes containing details of the Plan were signed by RL, EPA, Ecology, and WDOH in January 1998.

Remedial Design Report/Remedial Action Work Plan

Rev. 1, Draft C (includes ROD and ROD Amendment sites) was issued to RL and the regulators on December 23, 1997.

100-B/C Remedial Action

Excavation at the 116-C-5 Retention Basins is essentially at the design limits, with some minor trimming to lines and grade. MRDS (Radiation Field Screening) is scheduled to commence immediately thereafter, to begin the closeout process and determine other necessary actions. In parallel, ERC will begin work on application of the 116-C-1 vadose zone test pit data to the 116-C-5 vadose zone.

Excavation/concrete demolition work and waste shipment to the ERDF is in progress at the 116-B-11 Retention Basin waste site. Total duration of this activity extends to approximately the end of FY 1998.

Previously removed piping from the 116-C-5 area are now capped and stored at the 116-B-1 site, awaiting pipe splitting before they can be containerized for disposal at the ERDF.

Subcontractor pricing is being requested for macroencapsulations of contaminated lead/rubber with lead materials from the present 100-B/C and 100-D Area remedial action sites. Copies of the ERC's current plans, documenting methodology, and other relevant details are available to the regulators and RL. The 100-B/C site was chosen to perform this encapsulation process.

Draft meeting minutes from the December 1997, 100 Area Remedial Action Site Closeout process meetings with RL and the regulators are currently in review by RL.

RESRAD computer runs, and associated calculations for the 116-C-1 site for protection of groundwater and the Columbia River, utilizing information from the 116-C-1 test pit are nearing completion. The target date for presentation of summary results to RL and EPA is February 9, 1998.

100-DR Remedial Action

Remedial excavation of overburden and concrete basin construction debris at the 116-D-7 and 116-DR-9 basins is ongoing and will continue through approximately the end of FY 1998 for 116-D-7, and beyond FY 1998 for 116-DR-9.

Remedial excavation of the 107-D-1 and 107-D-5 Sludge Pits is completed, and the closeout process is well underway. The 107-D-5 closeout report is near completion, with target submittal to RL scheduled for March 1998. Work on the 107-D-1 closeout report will begin soon.

Remedial excavations of the 107-D-2 and 107-D-3 Sludge Pits and the abandoned tile field east of 116-DR-9 are essentially completed, with closeout process/determination of other action(s) in progress.

Radiological field screening along the north perimeter excavation face of 116-D-7 and historical information (Dorian and Richards) indicate the potential for lateral plumes to the north of the 116-D-7, near the 107-D-4 Sludge Pit, and large diameter pipelines to be remediated to the north. A site meeting is scheduled with Ecology for February 19, 1998, to discuss the 107-D-4 site closeout process in relation to this identified plume.

Remedial excavation of the abandoned tile field associated with the 1607-D-2 septic tank, located east of 116-DR-9 and south of 107-D-1, is in progress, concurrent with 116-DR-9 remedial action activities.

100-N Area Remedial Action Decision Documents

The five 100-N Area Remedial Action documents (the 100-NR-1 TSD CMS and Proposed Plan, the 100-NR-1 and 100-NR-2 CMS and Proposed Plan, and the 100-N Area Ancillary Facilities EE/CA) will be finalized and ready for submittal to the regulators by the end of February 1998. The public comment period for these documents is scheduled from March 16 through April 29, 1998. The public hearing is planned for April 2, 1998.

200 AREAS

200 Areas Strategy/Implementation Plan

The public comment period on the Tri-Party Agreement Change Package for the 200 Areas was completed on January 7, 1998. A signed Tri-Party Agreement Change Package is planned to be in place by January 30, 1998. Only minor comments were received from the public. The workshops to develop the scope of the 200 Area Implementation Plan have started, and additional workshops will be scheduled.

200-BP-1 Operable Unit

The barrier-testing program continues to provide data on water infiltration, vegetation growth, and biointrusion associated with the Hanford Site barrier. The Pacific Northwest National Laboratory has finalized the annual report documenting the FY 1997 results; the report will be published within the next month.

200-CW-1 Operable Unit

BHI has completed drilling and sampling activities associated with the borehole at the 216-B-2-2 Ditch. All samples were taken successfully, and well abandonment will be completed within the next 2 weeks. Analytical results will not be available for up to 90 days, at which time a summary report will be prepared.

Nonradioactive Dangerous Waste Landfill (NRDWL)

Responses to Ecology comments on the soil-gas results report for NRDWL were revised. RL will transmit these revised comments to Ecology in the near future.

300 AREA

300-FF-1 Operable Unit

Process Trenches

A hot spot identified from verification sampling at the Process Trenches was excavated and disposed, and the area was resampled. Validation of the Process Trenches was completed, except for the new hot spot sample. Preparation of the Process Trenches verification package continued. Ecology issued a contained-in letter for the Process Trenches sluice gates, clay pipe, and associated soils. These materials will now be disposed to ERDF. The headwork sediments were inspected by an ERC geologist and the Process Trenches ERA manager. Their inspection indicated that the sediments are soil in nature and not a process sludge. This information was provided to Ecology for review in terms of contained-in applicability. The headworks sediments are the only remaining materials to be disposed from the Process Trenches. Work was also

initiated on a request to change the closure from "modified" to "closure by removal" for the Process Trenches, based on the very low levels of residual contamination in the soils.

Landfill 1D

Approximately 3,000 tons of soil containing lead (averaging about 400 ppm) was excavated, and most of that volume was stockpiled within the landfill. 35 containers of this soil were also filled and put on disposal hold until handling options have been completely evaluated.

Burial Ground 618-4

After demobilizing at Landfill 1D, remobilization to support level B operations at the burial ground was completed. Excavation of overburden was reinitiated on February 3, 1998.

300-FF-2 Operable Unit

Disposal of FY 1997 groundwater samples (currently being held at the laboratories that performed the analyses) is proceeding. Staff from the 200 Area Effluent Treatment Facility (ETF) have completed the review of the groundwater sample data that was provided to them. It is now anticipated that the sample residuals will be transferred directly to the 200 Area ETF for disposal. Staff from ERC Sample and Data Management have coordinated the consolidation of the liquids into a smaller number of containers in anticipation of the shipment. Concurrence from RL for return of samples to the Hanford Site for disposal was obtained on February 6, 1998. The disposal activity can now proceed as soon as it can be scheduled.

The January groundwater sampling at wells 699-S6-E4A and 699-13-3A was completed on January 22, 1998. Samples were shipped to the laboratory that same day.

ERC staff provided support to RL at a meeting held on January 29 concerning the 300 Area Disposition Project. This is a continuation of efforts documented in the 300 Area Mission Analysis and the 300 Area Decision documents that were authored by B&W Hanford, Inc. (ERC staff reviewed these documents in late November 1997.) The purpose of the meeting was to establish a project team that would formulate an integrated approach to the future of the 300 Area.

WASTE INFORMATION DATA SYSTEM (WIDS)

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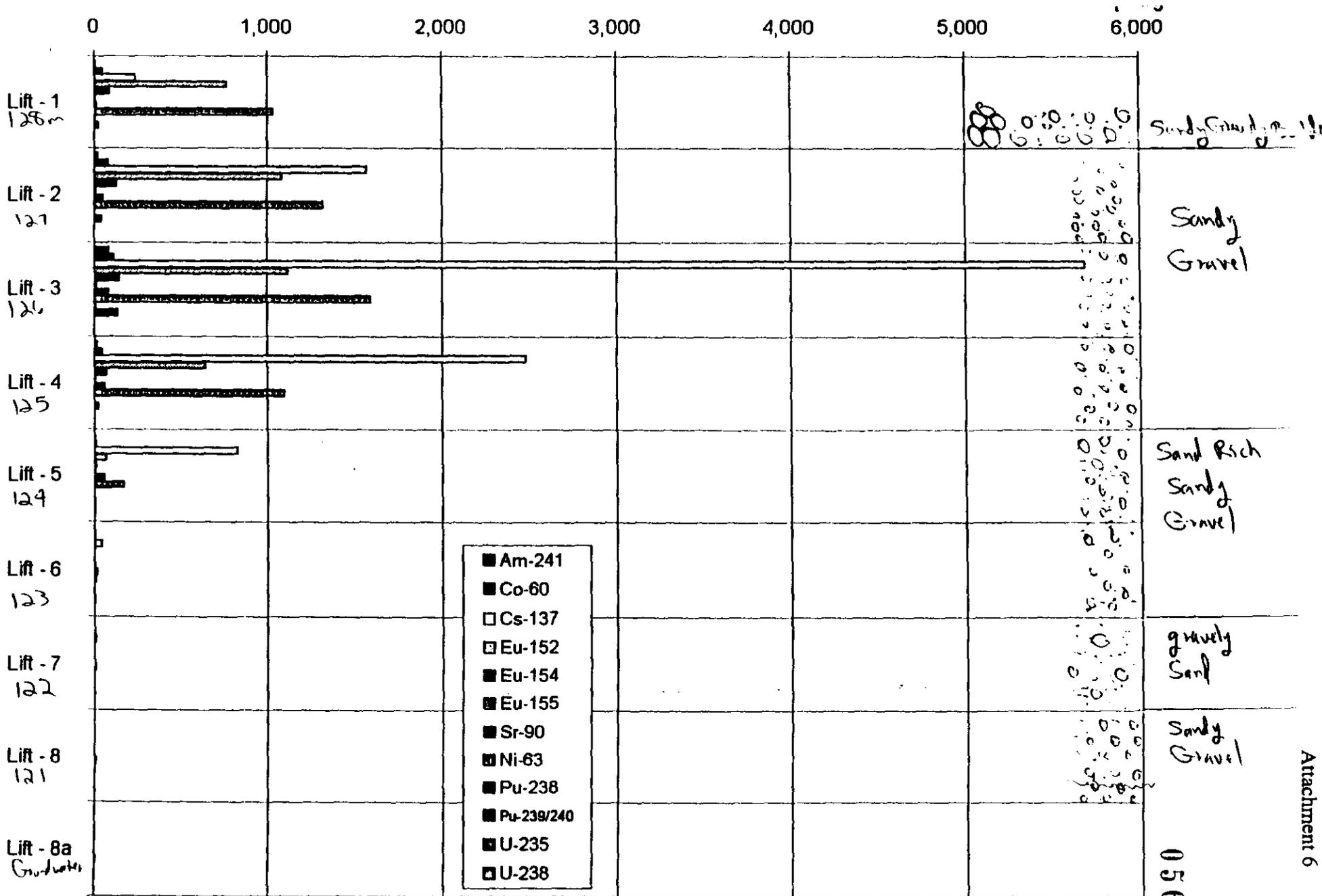
PURPOSE: (1) To summarize the current status of WIDS
(2) Demonstrate on-line the key WIDS/EDV features

KEY POINTS:

- **WIDS HAS UNDERGONE A MAJOR SOFTWARE REDESIGN**
 - Developed through a process flow and team consensus approach
 - Ability to track a site from 'Discovery' through cleanup/closure process - (TPA-MG-08)
 - Accessible to all Hanford Contractors and agencies through the Hanford Intranet
 - User friendly interface

- **WIDS HAS UNDERGONE INFORMATION REVIEW, CORRECTION, AND UPDATE**
 - Duplicates removed, some sites split, editorial errors corrected, references checked, checked against technical baselines, new information and references added, site locations verified and mapped
 - All changes logged to an automated log file (before and after image)
 - All data must be traceable to a reference

- **VALIDATION OF TPA-MG-08**
 - 100 Areas Remaining Sites Project has reviewed the data and supported the process to culminate in one list of sites in the AR Document and Proposed Plan that matches with WIDS
 - Validates TPA-MG-08 as a workable process
 - 100 Areas sites ready for generation of a revised Appendix C

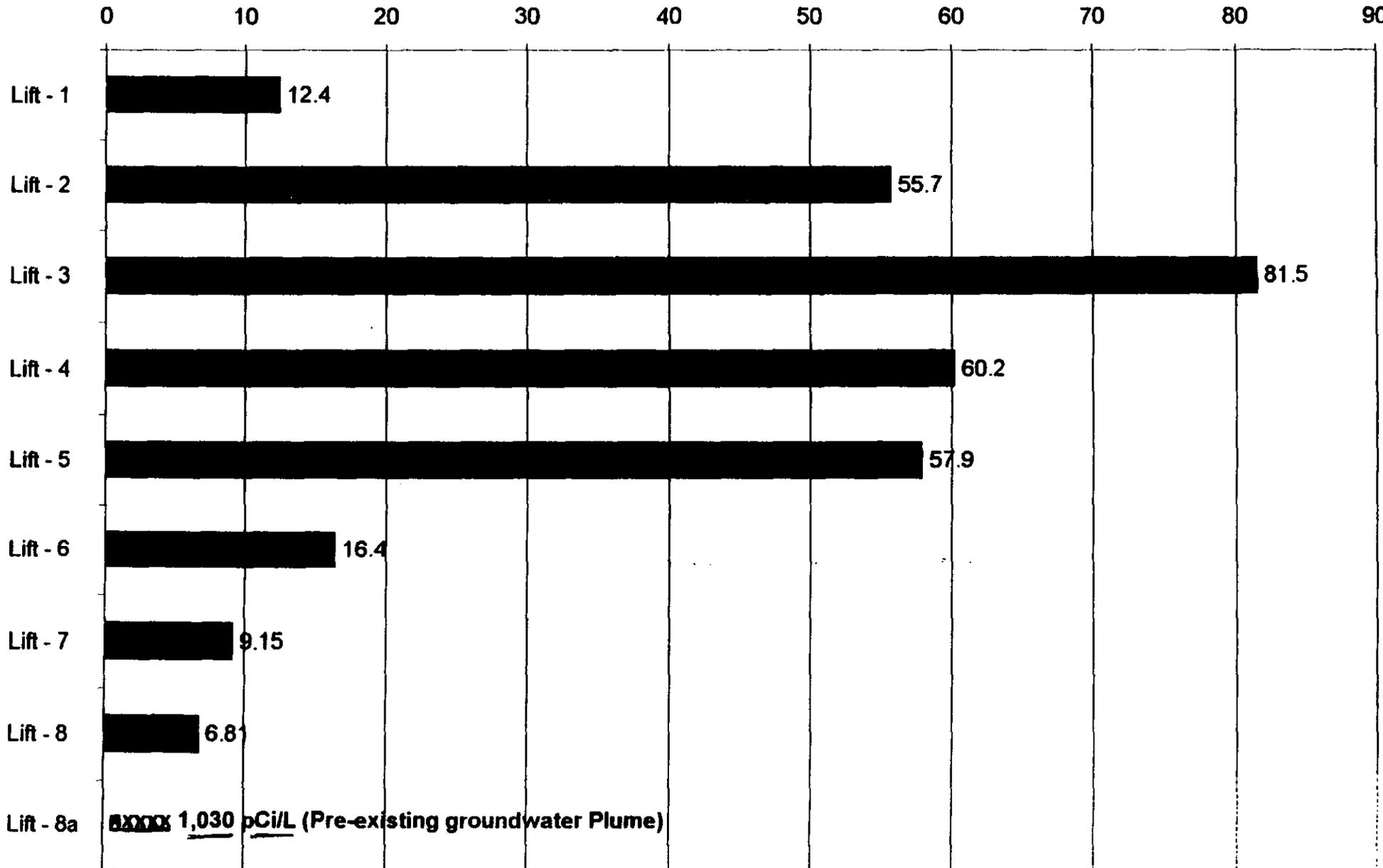


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116-C-1 Test Pit Data

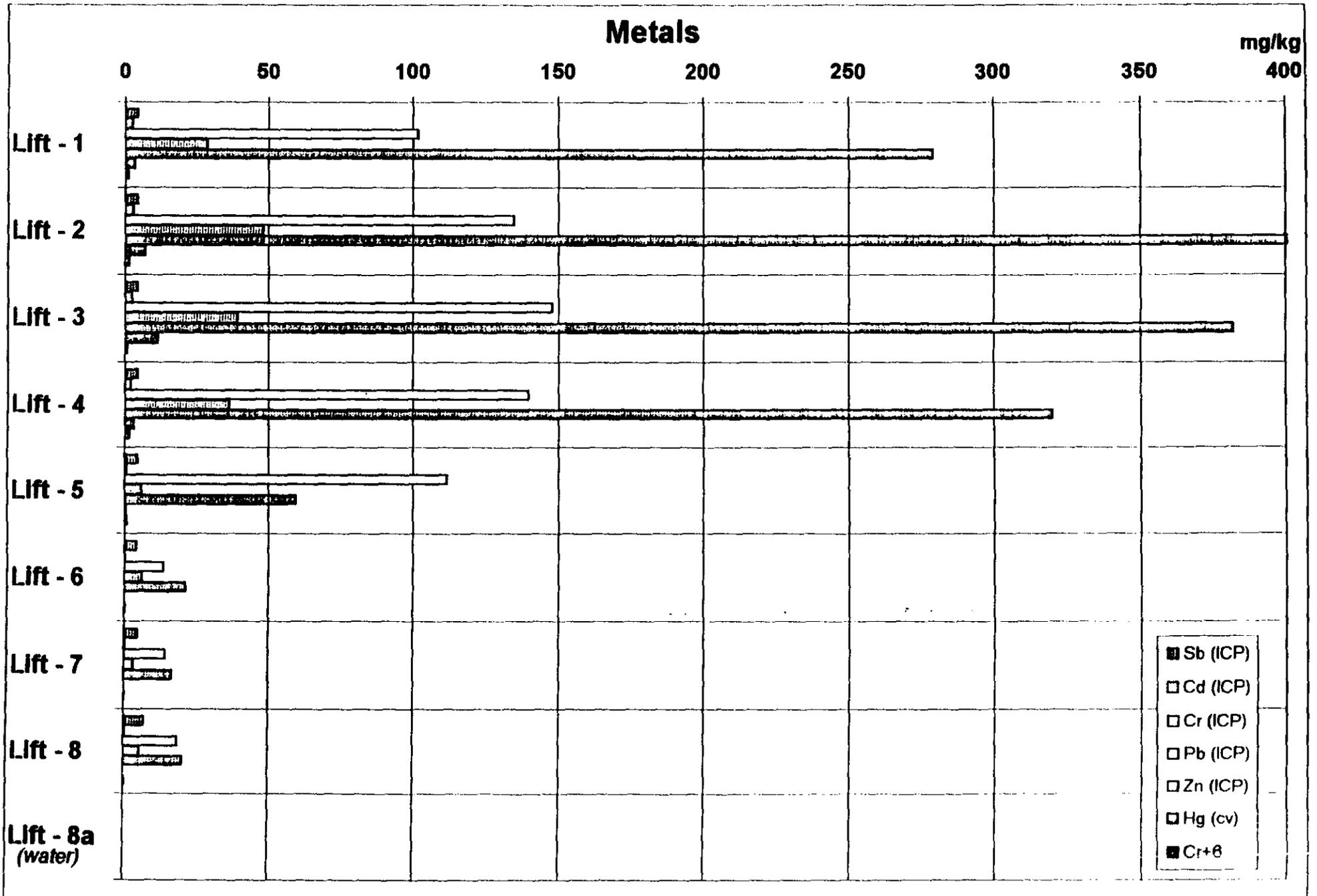
Strontium - 90

pCi/g
90

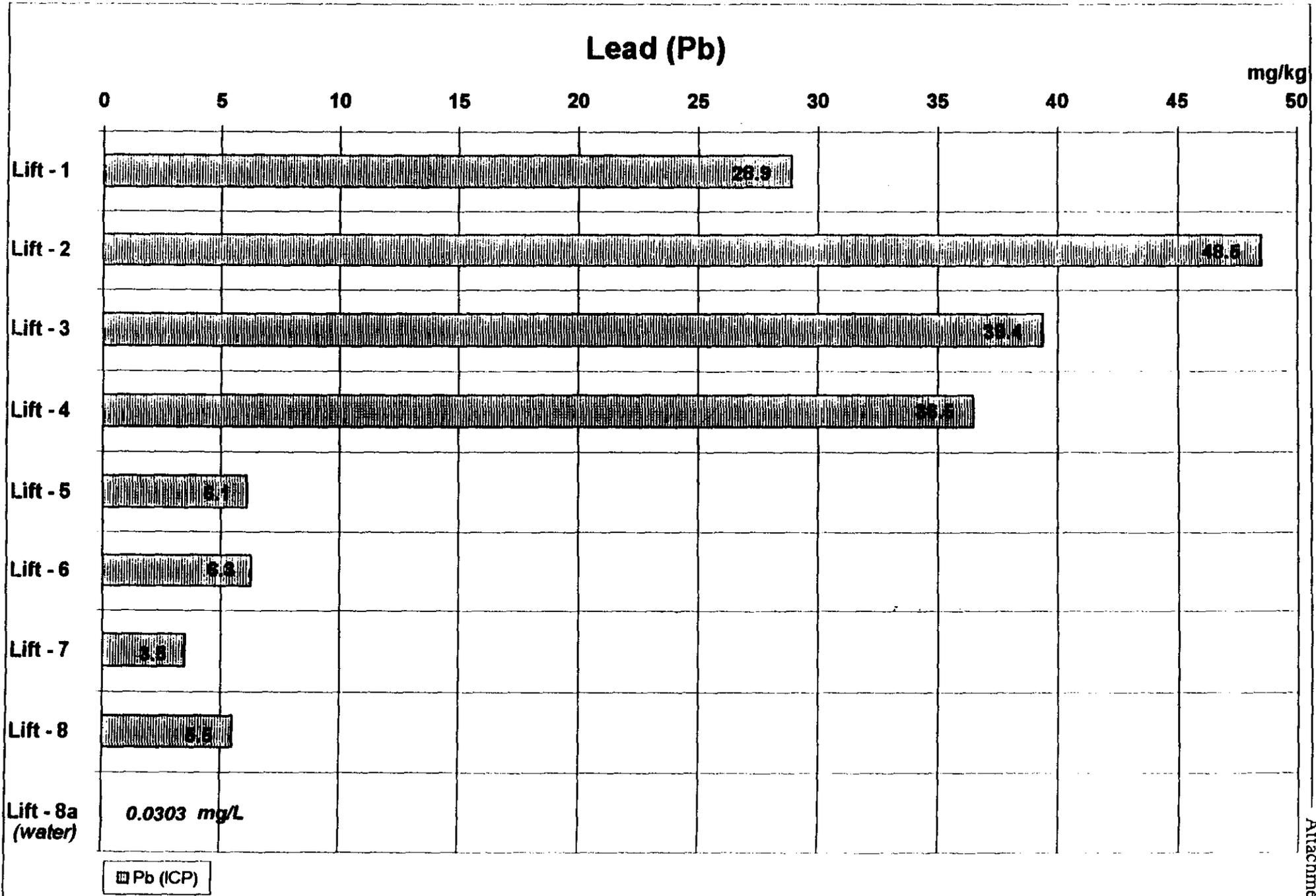


■ Sr-90

116-C-1 Test Pit Data



116-C-1 Test Pit Data



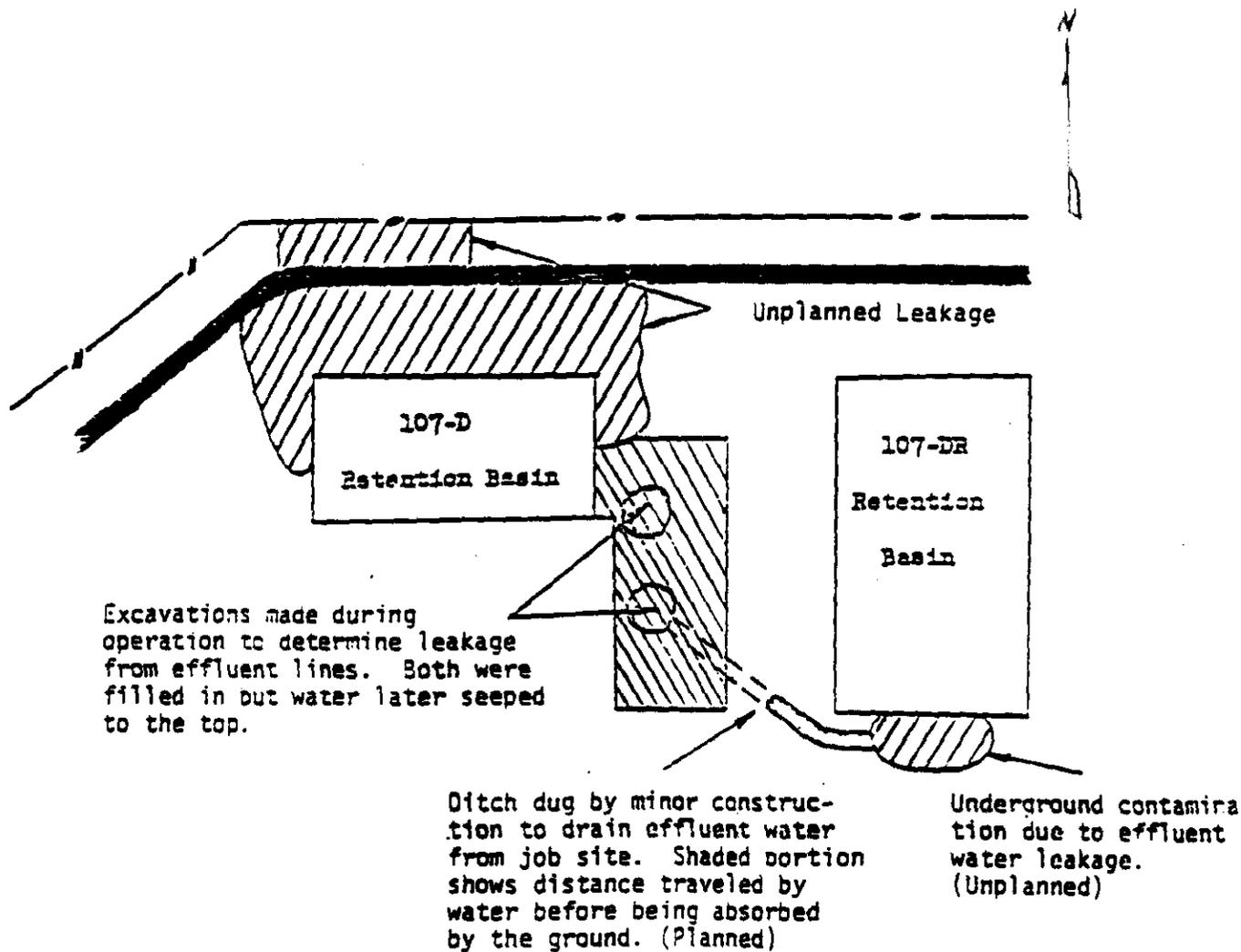
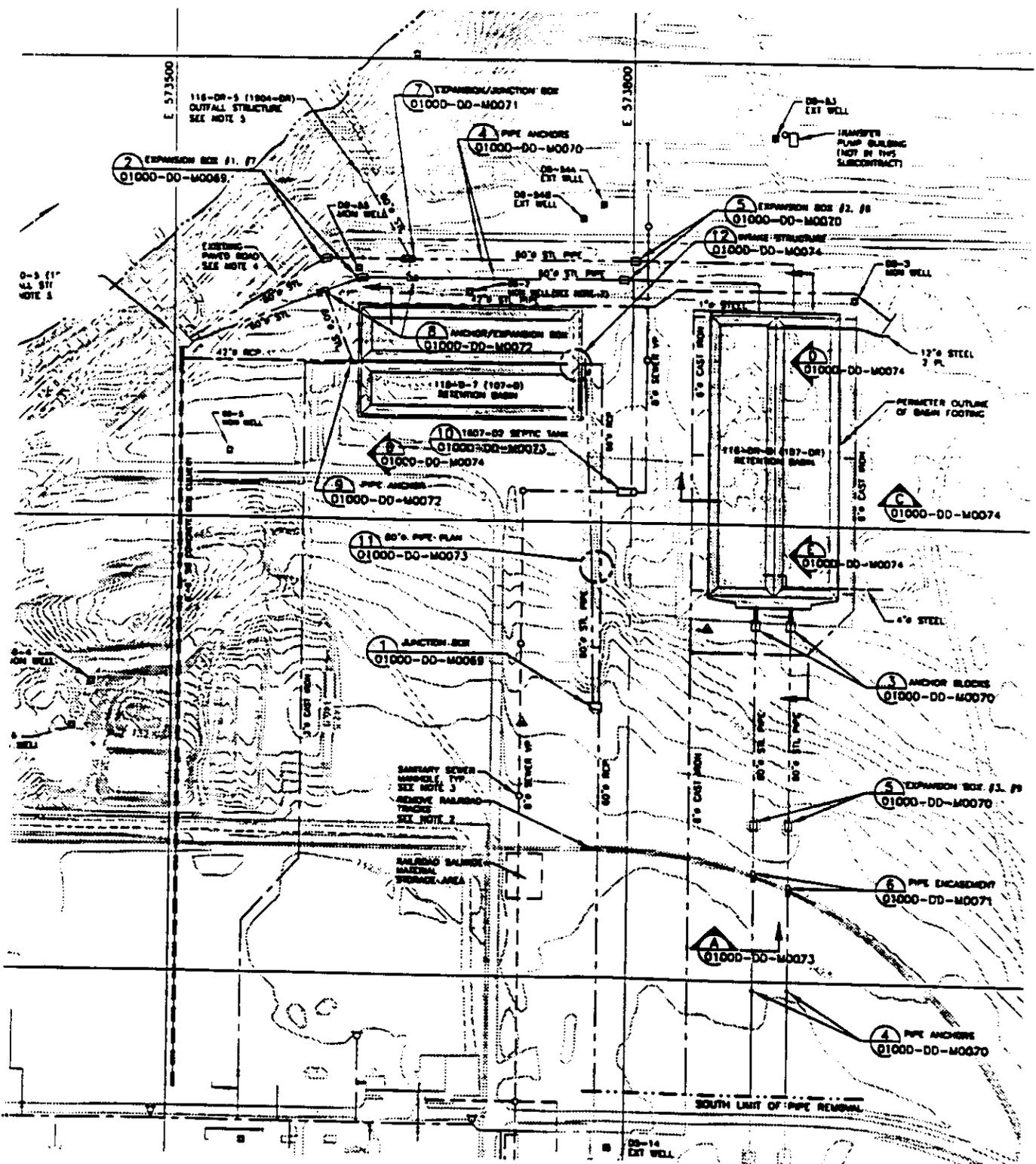


FIGURE 2.3-5

107-D AREA LEAKAGE



RECORD INFO
1/2000 10
H-1-81311 Sht 1

LANDFILL 1B PROPOSAL

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REMEDIAL INVESTIGATION REVIEW

- CHARACTERIZATION INFORMATION CONSISTED OF SURFACE GEOPHYSICS, AERIAL PHOTOGRAPH REVIEWS, AND SURFACE RADIATION SURVEYS
- SURFACE GEOPHYSICS PERFORMED ONLY ON PORTION OF AREA LATER DEFINED AS LANDFILL 1B

REMEDIAL DESIGN REVIEW

- NORTHERN BOUNDARY OF LANDFILL CONSERVATIVELY DEFINED BASED ON AVAILABLE RI DATA

REMEDIAL ACTION

- PERFORMED GPR AND EMI SURVEY OVER AREA NOT PREVIOUSLY SURVEYED
- SURVEY RESULTS ARE VERY FAVORABLE
 1. DEFINED DEPTH OF FILL IN SOUTHERN PORTION OF LANDFILL
 2. DETERMINED AREA UNDER FILL AND NORTH HALF OF LANDFILL AS UNDISTURBED
 3. IDENTIFIED ONE ANOMALY

CONCLUSIONS AND RECOMMENDATIONS

- THE DATA CLEARLY DELINEATES THE AREA OF THE LANDFILL NORTH OF THE FILL AS NATIVE MATERIAL (UNDISTURBED)
- THE GPR AND EMI DATA ARE OF SUCH QUALITY THAT EXTENDING THE TWO TEST TRENCHES TO THE NORTH ARE NOT RECOMMENDED
- RECOMMEND EXCAVATION STARTING ON WESTERN EDGE AND DIGGING TO THE EAST UNTIL OUT OF DEBRIS. NO EXCAVATION REQUIRED ON REMAINDER OF NORTHERN HALF EXCEPT FOR THE ONE IDENTIFIED ANOMALY
- PROPOSAL FOR EXCAVATION OF THE SOUTHERN PORTION OF THE LANDFILL BASED ON TEST TRENCH DATA (BERM PORTION) NOT YET COMPLETED.
- TEST TRENCH DATA CORRELATES WITH GEOPHYSICS RESULTS (i.e., CONTAMINATION > 350 pCi/g IS WITHIN THE FILL, NOT IN NATIVE SOILS.

PROCESS TRENCHES PERMIT MODIFICATIONS

REJECTED JUNE 1997 CLASS 1 PERMIT MODIFICATIONS

- NEED TO DEFINE THE ISSUE(S) AND RESOLVE
 - INCONSISTENCIES IN THE PERMIT
- 1) **CONDITION VI.1B.b:** Pursuant to condition II.K.7 of the Hanford Facility Wide Permit, the 300 Area Process Trenches (APT) closure shall be a Modified Closure in coordination with the Record of Decision (ROD) for 300-FF-1 and 300-FF-5. Sections of CERCLA documents (examples include, but are not limited to, Remedial Design/Remedial Action CERCLA work plan, the Operation and Monitoring Work Plan, etc.) which satisfy requirements and conditions of this Modified Closure Plan will be reviewed and approved by the Department.

CLASS 1 MODIFICATION REQUESTED: Delete the words, “the Operation and Monitoring Work Plan” from the condition.

REASON: The Operation and Monitoring Work Plan will not be reviewed and approved by Ecology, because there is no expectation to prepare a 300-FF-1 Operable Unit Operation and Monitoring Work Plan.

- 2) **CONDITION VI.1B.p:** Page 8-3, line 6. Security Control Devices (SCD) will be developed pursuant to Condition II.K.3.a of the Permit. Design will occur during the CERCLA/ RD/RA process. Implementation of SCD will occur through the Department approval of pertinent sections of the CERCLA Operations and Maintenance Plan.

CLASS 1 MODIFICATION REQUESTED: Delete the words, “Design will occur during the CERCLA/ RD/RA process. Implementation of SCD will occur through the Department approval of pertinent sections of the CERCLA Operations and Maintenance Plan.”

REASON: The Operation and Maintenance Work Plan will not be approved by Ecology, because there is no expectation to prepare a 300-FF-1 Operable Unit Operation and Monitoring Work Plan.

PROCESS TRENCHES PERMIT MODIFICATIONS

REJECTED JUNE 1997 CLASS 1 PERMIT MODIFICATIONS

- RELATED FACTS

- 1) The Permit Conditions do not specify which O&M Plan(s) are to approved.
- 2) There is currently no plan to prepare a 300-FF-1 Operable Unit O&M Plan.
- 3) There is a 300-FF-5 O&M Plan. It functions to direct the 300-FF-5 groundwater well monitoring and well maintenance scope. It does not direct the RCRA groundwater well monitoring and maintenance scope.
- 4) Inspection and maintenance plans for Security Control Devices (SCD) are required per sections 8.2 and 8.4 of the post-closure plan and are a permit condition, VI.1.A.

- POTENTIAL SOLUTION FOR DISCUSSION

- 1) Prepare a post-closure care inspection and maintenance plan. It includes institutional controls, periodic assessments, groundwater monitoring, corrective action, personnel training, and security to be implemented upon certification of closure. Post-closure care scope is based on the determination of the appropriate TSD unit closure option. Data, indicate the contaminants of concern meet action levels that would qualify for clean closure (i.e., Hanford Site Background, limit of quantitation, and/or MTCA Method B residential health based soil cleanup levels). It is recognized that clean closure cannot be implemented without the groundwater component. However, the soil data clearly supports a reduced post closure care monitoring and maintenance scope. Groundwater post-closure care monitoring and maintenance would still be required based on current groundwater contamination and would be included in the inspection and maintenance plan. The Tri-Parties need discussions on this subject and decisions either today or at a followup meeting soon. Near term decisions and impacts are fence retention/removal and preparation/approval of the subject plan before certification of closure.
- 2) Submit post-closure care inspection and maintenance plan for Ecology review and concurrence.
- 3) Resubmit Class 1's reworded as required for Ecology approval.
- 4) Solicit other ideas for consideration.

CLOSURE DATA

POST-ERA ANALYTICAL RESULTS

- Addresses Trenches Length

- 1) Sampled five surface locations in trenches and including one borehole to 17 ft
- 2) Ten samples in total
- 3) Analyzed for TAL/TCL
- 4) Most organics and semivolatiles results were non-detects. A couple of extremely low concentrations were identified. All detected organics and semivolatiles were below MTCA B for soils or limits of quantitation.
- 5) Detected metals were all below MTCA B for soils or Hanford Site Wide Background.

PRE-ERA ANALYTICAL RESULTS

- Addresses Spoils Pile

- 1) Sampled five locations from the surface to 5 ft below grade (the spoils soils)
- 2) Fifteen samples in total plus splits and duplicates
- 3) Analyzed for TAL/TCL
- 4) Organics, semivolatiles, and pesticides were non-detect or below MTCA method B for soils except for the contaminants of concern as per the ROD.
- 5) Inorganics were all less than MTCA method B for soils except for the contaminants of concern as per the ROD.

REMEDIAL ACTION VERIFICATION DATA RESULTS

- Addresses Spoils Pile and Soils Under Headworks

- 1) Implemented Sampling and Analysis Plan
- 2) Sampled six locations in ACL, six locations in UCL, and 2 locations under the headworks structure
- 3) Analyzed for contaminants of concern per the ROD
- 4) All metals and semivolatiles results, except for one sample were non-detect.
- 5) All metals and semivolatiles results were below MTCA B for soils.

CLOSURE DATA

CONCLUSIONS

- All Pre-ERA, Post-ERA, and Remedial Action Verification Soils Data Collected Indicate Action Levels For Clean Closure (Per Section 6.1.1.1 and 6.1.1.2 of the 300 APT Closure Plan) have been met.
- It is Recognized That “Clean Closure” is not Prudent to Pursue Until the Groundwater also Meets “Clean Closure Criteria.”
- However, it is Prudent to Pursue a Change to the Post-Closure Care Monitoring and Maintenance Requirements to Eliminate Certain Aspects of Post-Closure Care as Allowed Through Section 6.2.1 of the Closure Plan.

PROPOSAL

- This Document is Notification to Ecology that DOE Intends to Present Data Documenting the Process Trenches Soils Meet MTCA Method B Soil Cleanup Standards.
- Include Text Summarizing ERA Data in the Verification Report That Provides Supporting Documentation With the Verification Data That Cleanup of the Process Trenches to MTCA Method B Soil Cleanup Standards Has Been Met.
- Include Text Summarizing ERA Data in the Certification of Closure Report That Provides Supporting Documentation With the Verification Data That Cleanup of the Process Trenches to MTCA Method B Soil Cleanup Standards Has Been Met.
- Prepare a Maintenance and Monitoring Plan as required per the Post-Closure Plan – Obtain Ecology Approval, if Requested.
- Begin Implementation of the Maintenance and Monitoring Plan Upon Certification of Closure.
- Prepare a Class 3 Permit Modification to the Post-Closure Plan Reflecting the Maintenance and Monitoring Plan.

PROCESS TRENCHES PERMIT MODIFICATIONS

NEW CLASS 3 PERMIT MODIFICATION REQUESTS

- The class 3 modifications will request Ecology to downgrade to class 1 modifications.
- Summaries of the requested changes are presented below and are implementation of corrective actions resulting from a BHI self assessment of closure activities at the 300 Area Process Trenches.

- 1) Clarification of the location of air monitoring around the 300 Area Process Trenches.

Section 7.4.1.1 of the *300 Area Process Trenches Modified Closure/Postclosure Plan* (closure plan), DOE/RL-93-73, (Attachment 31 of the Permit), states that air samples will be established around the perimeter of the 300 Area rather than at the current location around the perimeter of the 300-FF-1 Operable Unit. Localized air sampling around the Operable Unit provides for more accurate monitoring of contaminants in the air. Also corrected in Section 7.4.1.1 is the source of approval for the sampling locations. Approval was granted in two sets of meeting minutes (referenced in the attached Notification Form) rather than in a project health and safety plan.

- 2) Inadvertent exclusion of remediation alternatives that do not require dikes and ditches.

Section 7.4.1.1.5 of the closure plan does not identify remediation alternatives that do not include dikes and ditches. The remediation alternative approved and being implemented at 300 Area Process Trenches does not include dikes and ditches. Therefore, the phrase "as necessary" has been added to the statement that all remediation alternatives will include dikes and ditches to prevent run-on and run-off of surface waters to account for current activities.

- 3) Correction of an inconsistency in text on hazardous waste worker training

Section 7.7 of the closure plan incorrectly states that Occupational Safety and Health Act (OSHA) training pursuant to 29 Code of Federal Regulations 1910.120 requires 40-hour hazardous waste training. This requirement actually requires 24-hour training. The requirement for 40-hour training has therefore been removed.

**300 AREA PROCESS TRENCHES –
HEADWORKS CONCRETE RESULTS SUMMARY**

056704

Analysis	Method	Basis	Constituent	Limit	B0M961 Result/Qualifier	B0M963 Result/Qualifier		
TCLP metals	1311/6010	toxicity	arsenic	5	0.0056	0.0054		
		toxicity	barium	100	0.625	0.433		
		toxicity	cadmium	1	0.0007	U	0.0007	U
		toxicity	chromium	5	0.0392	U	0.0025	J
		toxicity	lead	5	0.0011	U	0.0011	U
		toxicity	selenium	1	0.006	U	0.0044	U
		toxicity	silver	5	0.0011	U	0.0014	U
	1311/7470	toxicity	mercury	0.2	0.0001	U	0.0001	U
	ICP metals	6010	COC	thallium	245	1.7	J	1.5
volatiles	8260A	toxicity	benzene	0.5	0.005	U	0.005	U
		toxicity	2-butanone	200	0.02	U	0.02	U
		toxicity	carbon tetrachloride	0.5	0.005	UJ	0.005	UR
		toxicity	chlorobenzene	100	0.005	U	0.005	U
		toxicity	chloroform	6	0.005	UJ	0.005	UR
		toxicity	1,2-dichloroethane	0.5	0.005	UJ	0.005	UR
		toxicity	1,1-dichloroethene	0.7	0.005	UJ	0.005	UR
		toxicity	tetrachloroethene	0.7	0.005	UJ	0.005	UR
		toxicity	trichloroethene	0.5	0.005	UJ	0.005	UR
		toxicity	vinyl chloride	0.2	0.01	U	0.01	U
volatiles	8260A	Part A	2-butanone	480	0.02	U	0.02	U
		Part A	carbon tetrachloride	0.034	0.005	UJ	0.005	UR
		Part A	chlorobenzene	16	0.005	U	0.005	U
		Part A	tetrachloroethene	0.086	0.005	UJ	0.005	UR
		Part A	toluene	160	0.005	U	0.005	U
		Part A	trichloroethene	0.398	0.005	UJ	0.005	UR
semivolatiles	8270A	COC	benzo(a)pyrene	18	6.6	UJ	6.6	UJ
		COC	chrysene	18	6.6	UJ	6.6	UJ

Headworks Concrete Qualification Summary/Evaluation**056704**

Semivolatiles – Results for both samples are estimated (UJ) due to high spike recoveries. Potential high bias is not a concern as both compounds were non-detects in each sample and material is not being left in place.

TCLP metals – Chromium result for sample B0M963 is estimated (J) due to blank contamination. Potential uncertainty of result due to blank contamination is not significant when compared to regulatory limit (three orders of magnitude difference). Results > 10x level of blank contamination are not qualified by procedure.

ICP metals – Thallium results are estimated (J) for both samples due to low spike recoveries. Potential low bias of results is not significant when compared to action level (two orders of magnitude difference), and the material is not being left in place.

Volatiles – Results for selected compounds estimated (UJ) for sample B0M961 and rejected (UR) for sample B0M963 due to low surrogate recovery of dibromofluoromethane (DFM) in samples. Recovery of DFM in all QC samples (blanks, LCS) was within control limits indicating a sample matrix effect. Recoveries for the other two surrogate compounds were within control limits for all project samples and QC samples. It is not uncommon to observe low surrogate recoveries in concrete samples. Qualified sample results (quantitation limits) are 2-3 orders of magnitude < regulatory limits (based on “totals” results without dividing by factor of 20 to account for corresponding TCLP dilution), and 1-2 orders of magnitude < MTCA C limits. It is very unlikely that residual organics would remain on an exposed concrete surface that has been in the sun, wind, etc. for several years.

Distribution
Unit Manager's Meeting: Remedial Action Unit/Source Operable Units
100, 200, and 300 Areas

056704

Nancy Werdel	DOE-RL, RP (H0-12)
Mike Thompson	DOE-RL, RP (H0-12)
Glenn Goldberg	DOE-RL, RP (H0-12)
Owen Robertson	DOE-RL, RP (H0-12)
Bryan Foley	DOE-RL, RP (H0-12)
Robert McLeod	DOE-RL-RP (H0-12)
Ellen Mattlin	DOE-RL, EAP (A5-15)
Steve Balone	DOE-RL, RPS (H0-12)
Lisa Treichel	DOE-HQ (EM-442)
Rich Person	DOE-HQ (EM-442)
Dennis Faulk	100 Aggregate Area Manager, EPA (B5-01)
David Einan	EPA (B5-01)
Larry Gadbois	EPA (B5-01)
Phil Staats	100 Aggregate Area Manager, WDOE (B5-18)
Joan Bartz	WDOE (Kennewick) (B5-18)
David Holland	WDOE (Kennewick) (B5-18)
Keith Holliday	WDOE (Kennewick) (B5-18)
Shri Mohan	WDOE (Kennewick) (B5-18)
Wayne Soper	WDOE (Kennewick) (B5-18)
Ted Wooley	WDOE (Kennewick) (B5-18)
Chuck Cline	WDOE (Lacey)
Lynn Albin	Washington Dept. of Health
V. R. Dronen	BHI (H0-17)
J. R. James	BHI (H0-17)
T. L. Rodriguez	BHI (H0-17)
M. R. Peterson	BHI (H0-10)
J. G. Woolard	BHI (H0-17)
R. L. Donahoe	BHI (X9-06)
F. M. Corpuz	BHI (X9-06)
G. B. Mitchem	BHI (H0-17)
G. E. Van Sickle	BHI (T2-05)
R. A. Carlson	BHI (L6-06)
W. E. Remsen	BHI (H0-17)
A. L. Langstaff	BHI(X3-40)
L. C. Hulstrom	CHI (H9-03)
A. P. Goforth	BHI DCC (H0-09)
T. M. Wintczak	BHI (H0-11)

Please inform Tamen Rodriguez (372-9562) - BHI
of deletions or additions to the distribution list.