

PFP Project Managers Meeting
Federal Building/Room 248
Richland, Washington
March 10, 2005
330 p.m. - 4:30 p.m.
Meeting Minutes Transmittal

0065102

The undersigned indicate by their signatures that these meeting minutes reflect the actual occurrences of the above dated Project Managers Meeting.

Stan Charboneau
S. L. Charboneau, PFP Project Manager, DOE-RL

Date: 4/14/05

Frederick W. Bond
F. W. Bond, Project Manager,
Washington State Department of Ecology

Date: 4-14-05

PFP, FH Concurrence:

A. M. Hopkins
A. M. Hopkins, Contractor Representative, FH

Date: 04-14-05

Purpose: Project Managers Meeting

Attachment 1: Agenda, Action Tracking List and Summary of Discussions

Attachment 2: Presentation Materials

Attachment 3: Attendee List

RECEIVED
MAY 10 2005
EDMC

PFP Project Managers Meeting
Federal Building/Room 248
Richland, Washington
March 10, 2005
330 p.m. – 4:30 p.m.
Meeting Minutes Transmittal

Attachment 1: Agenda, Action Tracking List, and Summary of Discussions

1.0 Administrative Issues

- The meeting minutes from the February 10, 2005 PMM were approved.
- The Action Tracking List was reviewed. An action was established for Rick Bond and Jeff Ayres to respond to letter AMCP 0168

2.0 PFP Project Item Status

- Ellen Mattlin provided an update on PFP status. Americium has been discovered in the hallway to PRF. PFP is undergoing extensive budget exercises. De-inventory is being delayed. The impacts of delaying de-inventory will be discussed with Ecology after the impacts are fully assessed and planning is formalized. Ecology was being notified that the HA 20 MB Part A is in work and will be provided to Ecology soon.

3.0 Milestone Status

- **M83-31** Discontinue waste discharges from 241-Z Tanks to Tank Farms via existing lines **DUE 6/30/05.**

Status: Complete to be removed from PMM

- **M83-40** Complete transition and dismantlement of the 232-Z Bldg incinerator to slab-on-grade (pending environmental determination) **DUE 9/30/06.**

Status: See Attachment 2 Item 4

- **M83-14** Complete 100% Of The Legacy Pu Holdup Removal As Defined In The Legacy Pu Holdup Removal Plan For PFP Required By MX-83-12-T01 **DUE 9/30/06.**

Status: See Attachment 2 Item 3

- **M83-32** Complete closure of the PFP 241-Z unit **DUE 9/30/11**

Status: See attachment 2 item 2. Meeting minutes for the Data Quality Objectives for 241-Z Closure of Sampling System Piping were approved and are included in Attachment 2 Item 1.

PFP Project Managers Meeting
 Federal Building/Room 248
 Richland, Washington
 March 10, 2005
 330 p.m. – 4:30 p.m.
Meeting Minutes Transmittal

- **M83-22** Submit to Ecology an Engineering Evaluation/Cost Analysis(es) (EE/CA(s) for approval and provide an action memorandum(a) as a primary document(s) for the decommissioning of the PFP facility **DUE 9/30/08**

Submit PFP above grade structures EE/CA to Ecology	8/31/04 - Complete
Issue Fact Sheet/perform 30 day public comment	10/11/04 - Complete
Respond to public comments	11/12/04 - Complete
Approve action memo	12/12/04 - TBD
Approve two RAWPs and SAP	3/31/05
Submit sub-surface EE/CA to Ecology	9/30/07
(The sub-surface scope is being determined thru negotiations with Ecology John Price)	

4.0 New Topics

Caroline Sutter provided a status on (Attachment 2 item 5) the disposition of Group 2 Alloys and the impacts to continued storage of Pipe Overpack Containers (POCs) in their current location.

Due to the change in mission and the progress on cleanup of the facility, portions of the security access requirements have been significantly reduced. This reduction reduces the impacts to the cleanup activities and increases efficiency. Due to the continued storage of the POCs in the current location, these security requirements can not be completely eliminated. To support cleanup activities, the shipment of the Group 2 alloys or relocation to another location which will maintain the security requirements for the type of material is desired.

To support cleanup plans in the near future, disposition of the POCs is required. It is requested that the additional locations discussed be approved for the storage of the POCs until such time as the POCs can be shipped to WIPP. Due to the small size of the rooms and storage requirements, several rooms are required. Continued storage of the POCs at PFP is not desirable and shipment to WIPP is the primary disposition path.

Rick Bond asked which rooms the POCs would be stored in and Caroline discussed the rooms. Rick approved that the storage of POCs can be placed into the additional locations discussed until such time as the POCs are shipped to WIPP.

5.0 Next Meeting

April 14, 2005, Fed Bldg, 3:30-4:30

2005 ACTION TRACKING LIST

Action	Assignee	Date Established/ Due Date	Status
Ecology respond to letter AMCP 0168	Rick Bond/ Jeff Ayres	4-14-2005	

PFP Project Managers Meeting
Federal Building/Room 248
Richland, Washington
March 10, 2005
330 p.m. – 4:30 p.m.
Meeting Minutes Transmittal

**Attachment 2: Presentation Materials
Items 1 & 2**

PFP March 10, 2005 PMM
Status of M83-31 & M83-32
Jerry Johnston
FH PM for 241-Z Transition

M83-31

Scope

Discontinue waste discharges from 241-Z Tanks to Tank Farms via existing lines - Due 6/30/05

Status

A letter from Ecology dated February 8, 2005 was received acknowledging completion of Milestone M-083-31. *Note - Status reporting of this milestone in the PMM will now be discontinued.*

M83-32

Scope

Complete closure of the PFP 241-Z TSD Unit - Due 9/30/11

Status

- Based on the results of a DQO meeting with Ecology on February 7, 2005 FH has prepared a draft SAP (pending reviews and approval) for sampling to be performed in the D8 Cell. A copy of the SAP will be transmitted to Ecology for information.
- Initial characterization and decontamination activities continued in Cell D8:
 - Higher than anticipated airborne contamination levels on the first entry required additional time to apply fixative via aerosol fogging and manual application.
 - Five 55 gal drums of debris have been removed from Cell D8 to date.
 - Video taken below work grating and inside Tank D8.
 - Another two weeks of D8 remains involving NDA of the sump and selected piping and size reduction and debris removal.
- Mobilization for Cell D5 work will start the week of March 14, 2005 to support work in D5 beginning in early April.
- The steam supply to all the below grade cells was permanently isolated.
- DOE Letter # 05-AMCP-0168 dated February 17, 2005 was transmitted to Ecology requesting a reduction in the frequency of RCRA TSD unit inspections from daily to monthly. Upon approval from Ecology, the PFP procedures will be revised.

PFP Project Managers Meeting
Federal Building/Room 248
Richland, Washington
March 10, 2005
330 p.m. – 4:30 p.m.
Meeting Minutes Transmittal

Attachment 2: Presentation Materials
Item 3

PFP March 10, 2005 PMM
Jim Lilly
Legacy Holdup

M83-14

Scope

Complete 100% of the legacy Pu holdup removal as defined in the legacy Pu holdup plan for PFP required by M-83-12-T01 - Due 9/30/06

Status

- Legacy holdup removal field crews have cleaned out or determined legacy clean according to the LHUR Plan the following holdup locations:
 - Glovebox HC-7C,
 - Glovebox MT-5,
 - Glovebox MT-6,
 - Glovebox HC-21A,
 - Glovebox HA-21I,
 - Glovebox HC-9B,
 - Glovebox HA-14,
 - Glovebox HA-10,
 - 7A to 7A Transfer Line,
 - Vacuum Line HC-9B to HC-1,
 - MT- 1,
 - MT-3 ,
 - HA-7A,
 - HC-3 conveyor,
 - HC-5 conveyor,
 - 188-1 prototype calciner,
 - HC-18BS,
 - HC-17BSS,
 - HC-1 VAC,
 - PRF Gallery 1st Floor West,
 - Demister #4,
 - HC-2 Conveyor,
 - HA-20MB,
 - HC-230-C3,
 - HC-230-C5,
 - Demister #7,

PFP Project Managers Meeting
Federal Building/Room 248
Richland, Washington
March 10, 2005
330 p.m. – 4:30 p.m.
Meeting Minutes Transmittal

- Legacy holdup removal is staffed with a total of seven field teams assigned to removal work scope.
- Legacy field crews (2 teams) continued in 236-Z building (PRF) on completing the last Miscellaneous Treatment glovebox holdup removal and Canyon Crane dependent activities:
 - Field teams are continuing floor sweeps, equipment removal and sealouts on legacy work Miscellaneous Treatment glovebox and anticipate a completion in mid-March.
 - Initiated Canyon NDA using the Canyon crane and hanging an NDA detector off the hook. Completion is scheduled for early next month..
- Four Legacy field crews continued on 'inactive A-Line' in 234-5Z on removal work on the head end of A-Line, Glovebox HA-9A, HA-9E, HA-9C, HA-11 and 26 inch Vacuum Line.
 - Work in new glovebag and greenhouse in Room 264 is underway to remove a pipe section, a pipe plug obstruction and get at a quantity of high-concentration material upstream of the pipe plug.
 - The HC-11 water walls were drained and size reduction of the walls and wall removal continues as a pre-requisite to holdup removal.
 - HA-9A legacy removal continued this period with the completion of the upper section of the box by removal of the drum filter, valves and equipment and the high concentration material from the calciner auger and the calciner. The remaining mid-section removal is scheduled to start and complete next month. This location is the last anticipated high-concentration material areas.
- Final two 'A- and C- Line active' removal field teams will complete the HA-23S two story floor sweeping activities. Demister 7 has been completed and demister 7 removals are scheduled for early next period. Planning and greenhouse fabrication is progressing on Filter box 21 and 23 holdup removals. C-Line main exhaust (E4) removal options are being evaluated.
- Two hundred and eighty-eight, 55-gallon containers of debris and eight 3013 container have been removed to date, contributing to 71% removal and 66% disposition complete. Legacy Holdup Removal is currently tracking completion one year ahead of the M83-14 milestone date.

PFP Project Managers Meeting
Federal Building/Room 248
Richland, Washington
March 10, 2005
3:30 p.m. – 4:30 p.m.
Meeting Minutes Transmittal

Attachment 2: Presentation Materials
Item 4

PFP February 2005 PMM
Status of M83-40
Paul Sato

**M83-40 COMPLETE TRANSITION AND DISMANTLEMENT OF THE 232-Z BLDG INCINERATOR
TO SLAB-ON-GRADE (PENDING ENVIRONMENTAL DETERMINATION) DUE 9/30/06**

1. Project is currently on schedule to complete transition and dismantlement of 232-Z on or before 9/30/06.
2. D&D Activity Status
 - Continue decontamination of the 232-Z glovebox (completed two of the three sections of the glovebox).
 - Completed startup activities supporting the glovebox removal and size reduction (if required).
 - Initiated tasks associated with the glovebox removal and/or size reduction (if required) in parallel with the final glovebox decontamination work.
 - Initiated planning on the 232-Z Scrubber Cell Decontamination
 - Assigned a second team to the 291-Z duct work removal. Initial planning tasks started.

PFPP Project Managers Meeting
Federal Building
Richland, Washington
March 10, 2005
3:30 p.m. – 4:30 p.m.
Meeting Minutes Transmittal

Attachment 2: Presentation Materials
Item 5

Disposition of Group 2 Alloys
March 10, 2005

Caroline Sutter

Background

Due to national security requirements, a limited number of Pipe Overpack Containers (POCs) containing Group 2 alloys are stored at PFP until they can be shipped to WRAP for preparation for shipment to WIPP (reference August 14, 2003 PFP Project Managers Meeting).

Status of Preparations for Shipment to WIPP

- The head gas sampling which is the final characterization activity for the POCs has been completed. Assembly and validation of the batch reports is underway.
- Security plan for handling the Group 2 alloys at WRAP has been completed and approved by DOE-RL.
- The Acceptable Knowledge (AK) package for the Group 2 alloys has been completed and sent to the Carlsbad Field Office (CBFO) for review and approval. Currently working to resolve CBFO comments.
- Shipping plan for the POCs has been developed which will avoid the requirement to develop a CBFO procedure for receipt of the POCs. The shipping plan was presented to CBFO.

Disposition of the POCs

- Obtain CBFO approval of the AK package.
- Obtain CBFO concurrence of the shipping plan.
- Shipment is dependent on the availability of the TRUPACT II for Hanford shipments. Currently receiving approximately 2-3 per week.
- Shipment is dependent on availability of legacy holdup and other POCs on which all characterization activities have been completed, i.e. head gas sampling to ship with the Group 2 alloys.

Impacts to Continued Storage of POCs in Current Location

Due to the change in mission and the progress on cleanup of the facility, portions of the security access requirements have been significantly reduced. This reduction reduces the impacts to the cleanup activities and increases efficiency. Due to the continued storage of the POCs in the current location, these security requirements can not be completely eliminated. To support cleanup activities, the shipment of the Group 2 alloys or relocation to another location which will maintain the security requirements for the type of material is desired.

To support cleanup plans in the near future, disposition of the POCs is required. It is requested that the additional locations discussed be approved for the storage of the POCs until such time as the POCs can be shipped to WIPP. Due to the small size of the rooms and storage requirements, several rooms are required. Continued storage of the POCs at PFP is not desirable and shipment to WIPP is the primary disposition path.

PFP Project Managers Meeting
Federal Building
Richland, Washington
March 10, 2005
3:30 p.m. – 4:30 p.m.
Meeting Minutes Transmittal

Attachment 3: Attendee List

J. Ayres, Ecology
R. Bloom, FH
R. Bond, Ecology
R. Brunke, FH
K. Hadley, FH
FH A. Hopkins, FH
J. Johnston, FH
S. Killoy, POLES
J. Lilly, FGG
E. Mattlin, RL
R. Oldham, FH
R. Piippo, FH
P. Sato, FH
C. Simiele, FH
C. Sutter, FH

Disposition of Group 2 Alloys
March 10, 2005

Background

Due to national security requirements, a limited number of Pipe Overpack Containers (POCs) containing Group 2 alloys are stored at PFP until they can be shipped to WRAP for preparation for shipment to WIPP (reference August 14, 2003 PFP Project Managers Meeting).

Status of Preparations for Shipment to WIPP

- The head gas sampling which is the final characterization activity for the POCs has been completed. Assembly and validation of the batch reports is underway.
- Security plan for handling the Group 2 alloys at WRAP has been completed and approved by DOE-RL.
- The Acceptable Knowledge (AK) package for the Group 2 alloys has been completed and sent to the Carlsbad Field Office (CBFO) for review and approval. Currently working to resolve CBFO comments.
- Shipping plan for the POCs has been developed which will avoid the requirement to develop a CBFO procedure for receipt of the POCs. The shipping plan was presented to CBFO.

Disposition of the POCs

- Obtain CBFO approval of the AK package.
- Obtain CBFO concurrence of the shipping plan.
- Shipment is dependent on the availability of the TRUPACT II for Hanford shipments. Currently receiving approximately 2-3 per week.
- Shipment is dependent on availability of legacy holdup and other POCs on which all characterization activities have been completed, i.e. head gas sampling to ship with the Group 2 alloys.

Impacts to Continued Storage of POCs in Current Location

Due to the change in mission and the progress on cleanup of the facility, portions of the security access requirements have been significantly reduced. This reduction reduces the impacts to the cleanup activities and increases efficiency. Due to the continued storage of the POCs in the current location, these security requirements can not be completely eliminated. To support cleanup activities, the shipment of the Group 2 alloys or relocation to another location which will maintain the security requirements for the type of material is desired.

To support cleanup plans in the near future, disposition of the POCs is required. It is requested that the additional locations discussed be approved for the storage of the POCs until such time as the POCs can be shipped to WIPP. Due to the small size of the rooms and storage requirements, several rooms are required. Continued storage of the POCs at PFP is not desirable and shipment to WIPP is the primary disposition path.

Data Quality Objectives for 241-Z Closure Sampling of System Piping

Meeting location: Federal Building, room 142
Meeting Date/time: 02/07/05 @ 1500 hours

Attendees:

Jeff Ayres	Ecology
Richard Bloom	Fluor Hanford, PFP Environmental Compliance
Rick Bond	Ecology
Bill Cox	Fluor Hanford, PFP Environmental Compliance
Andrea Hopkins	Fluor Hanford, Project Manager
Ellen Mattlin	Department of Energy
Andrea Prignano	Fluor Hanford, Environmental Protection
Wade Woolery	Department of Energy
Jerry Yokel	Ecology

Meeting Minutes:

The draft Sample and Analysis Plan for Characterizing the 241-Z Tank System Piping was presented and discussed. The discussion included sampling locations, methodology and analyses specific to tank D-8 vault, with the possibility of application of the methodology to the rest of the piping system in the other 241-Z vaults, if necessary to address variations in the waste type. Additional sampling or non-sampling would be determined at subsequent follow-on DQO meeting.

It was agreed that the sample and analysis plan (SAP) does not need Ecology approval and that the plan will be made applicable to all the 241-Z vaults. A final version of the SAP incorporating the DQO decisions will be provided to Ecology. The sample points, sampling methodology and analyses, as outlined in the draft sample and analysis plan, were agreed upon between the attendees with minor changes. The sample bottles are to be amber glass and sample preservation protocols (i.e., cooling) are to be followed. The request for analyses was expanded to include volatile organics for the carbon tetrachloride. There was also discussion that the SAP would not list the internal lab procedures for the analyses methods. Instead the SAP would reference the EPA methods (e.g., ICP metals, SW-846).

The sample analyses results will be compared against the designation level for the constituents of concern for closure purposes. If the analyses results show the constituents of concern are below designation levels, it was proposed to not sample to the same extent in the remaining 241-Z vaults. It was agreed that the SAP will be evaluated for use in the remaining 241-Z vaults based on the results of the pipe sampling/analyses of the D-8 vault.

The agenda, draft SAP and pipe cross section used at the meeting are attached to these minutes.

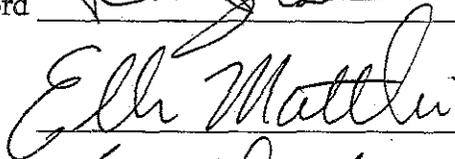
Approvals:

Fluor Hanford



Date 3/10/05

DOE-RL



Date 3/10/05

Ecology



Date 3/10/05

ATTACHMENT

Agenda for DQO Meeting 2/7/05

- Review Closure plan requirements
- Review COC
- Identify sampling opportunities
- Review process knowledge
- Agree on approach
- Followup
 - Document DQO meeting
 - Prepare a SAP

Per the RCRA closure plan:

6.2.1.2 Clean closure of structures and components could be verified by sampling of flush solutions or decontamination rinsate; by wipe sampling of non-porous metal or painted concrete surfaces; or, by chip sampling of bare concrete. The material would qualify for clean closure if concentrations of dangerous waste constituents of concern (Chapter 7.0, Section 7.1.4) can be determined to be below WAC 173-303-090 designation levels for toxicity characteristic dangerous waste and if the material does not exhibit the WAC 173-303-090 characteristic of corrosivity.

We are now at the point where capturing this sample is appropriate and as such a DQO meeting and development of the SAP is appropriate per the Closure plan

7.1.4 Verification of clean closure for some 241-Z materials could require laboratory sampling and analysis of the material surface or of rinse or flush solutions (Chapter 6.0, Section 6.2.1.2). Sampling would be used to verify that the concentration of constituents of concern are below analytical clean closure levels. Sampling would be in accordance with an approved sampling and analysis plan (SAP) that would evolve from a data quality objectives (DQO) process involving the permittee(s) and Ecology. The SAP would document the number of samples, type and quality of data, sampling and analytical procedures, and the appropriate field and laboratory quality control.

Sample and Analysis Plan for Characterizing 241-Z Tank System Piping

February , 2005

Approval Page

Approval Function / Organization	Name	Signature	Date
Project Manager			
Environmental Compliance PPF			

INTRODUCTION

At Plutonium Finishing Plant, the 241-Z Treatment and Storage Tanks (241-Z) *Resource Conservation and Recovery Act* (RCRA) of 1976 treatment, storage, and/or disposal (TSD) unit is under going RCRA closure.).

Detailed discussion of 241-Z processes and equipment and of the waste types treated and stored at the unit is provided in the Closure plan ((DOE/RL-96-82, Rev. 1) Chapters 3.0 and 4.0, respectively. Although the treatment, storage and/or disposal of radioactive waste (i.e., source, special nuclear, and by-product materials as identified in the *Atomic Energy Act of 1954*) are not within the scope of RCRA or Washington Administrative Code (WAC) 173-303, information is provided for general knowledge. The 241-Z is a tank system for treatment and storage of corrosive, plutonium-bearing liquid waste from activities at the Plutonium Finishing Plant (PFP). 241-Z waste is transferred to the double-shell tanks (DST System) for storage until final disposition.

The 241-Z consists of belowgrade tanks D-4, D-5, D-7, D-8 and an overflow tank located in a concrete containment vault; and its associated ancillary piping and equipment. The tank system is located beneath the 241-Z Building, which is not a portion of the TSD unit. Waste managed at the TSD unit is received via underground piping from PFP sources. Tank D-6 within vault D-6 is a past-practice tank that never operated as a portion of the RCRA unit. Tank D-6, its containment vault cell, and soil beneath the vault that were potentially contaminated during past-practice operations and any other potential past-practice contamination identified during 241-Z closure while outside the scope of this 241-Z closure plan will be addressed concurrent with the RCRA activities described in this plan.

Under this closure plan, the 241-Z will undergo final or partial clean closure to the performance standards of WAC 173-303-610 with respect to dangerous waste contamination from RCRA operations. The unit will be clean closed if physical closure activities identified in this plan achieve clean closure standards for all 241-Z locations. The scope of closure activities under this plan will be similar to the scope of 241-Z 'terminal cleanout' activities in support of PFP deactivation, that will include but are not limited to tank system decontamination and visual inspections or sampling to verify clean closure levels. Clean closed 241-Z tanks and/or structures will remain after closure for future disposition in conjunction with PFP decommissioning activities.

1.0 DATA QUALITY OBJECTIVES

2.1 Problem Statement

Portions of the below grade piping cannot be removed or placed in service for cleaning and must be evaluated by analytical methods to evaluate hazard.

2.2 General Decision Statement

This SAP has been designed to obtain the data required to characterize the piping for characteristic waste constituents and to make a designation decision in accordance with Section 2.5. The decision rule for these questions is provided in Section 2.5.

2.3 Inputs to the Decision

In developing the RCRA Closure Plan, the constituents of concern for closure were identified. Waste received at 241-Z from PFP was a corrosive mixed waste containing predominately nitric acid and other incidental process impurities. After treatment in the tank system to meet receiving unit acceptance standards, the waste remains corrosive but has been made caustic by the addition of sodium hydroxide. The Part A, Form 3, defines 241-Z waste as a potential characteristic mixed waste for corrosivity (D002) and for arsenic (D004), barium (D005), cadmium (D006), chromium (D007), lead (D008), mercury (D009), selenium (D010), silver (D011) and carbon tetrachloride (D019). Some of these constituents potentially could remain in waste residues on unit components and structures.

Verification of clean closure for some 241-Z materials could require laboratory sampling and analysis of material surface(s) or of rinse or flush solutions (Chapter 6.0, Section 6.2.1.2). Sampling would be used to verify that the concentration of constituents of concern applicable to the material being sampled are below analytical clean closure levels.

Table 1. Constituents and Parameters of Concern

Parameter	Reason for Analysis	Expected Conc.	Regulatory Limit	Analysis Method(s)
Corrosivity	D002	pH 3-7	pH<2 or pH>12.5	
Metals				
Arsenic (As)	D004		5 mg/L	
Barium (Ba)	D005		100 mg/L	
Cadmium (Cd)	D006		1.0 mg/L	
Chromium (Cr)	D007		5.0 mg/L	
Lead (Pb)	D008		5.0 mg/L	
Mercury (Hg)	D009		0.2 mg/L	
Selenium (Se)	D010		1.0 mg/L	
Silver (Ag)	D011		5.0 mg/L	
Volatile organic compounds Carbon tetrachloride	D019		0.5 mg/L	

It should be noted that liquids containing Carbon Tetrachloride have not been discharged since 1992. The residual associated with drained, dry pipe are highly unlikely to have any detectable carbon tetrachloride. This rationale is suggested as acceptable knowledge carbon tetrachloride (D019) is not a constituent of concern for this piping.

Standard analysis methods are available to measure these parameters and constituents. These methods, along with the required levels of detection to make the decision, are provided in Table 1. The required limits of detection are based on the lower of the toxicity characteristic regulatory limit from WAC 173-303-090.

2.4 Study Boundaries

This sampling and analysis plan addresses the solution generated by rinsing the piping per discussion in Section 4.

2.5 Decision Rule

Due to interference or radiological contamination, detection limits above regulatory limits may be encountered. If necessary, a comparison with health based limits described in the closure plan would be pursued.

3.0 PROJECT RESPONSIBILITIES AND POINTS OF CONTACT

3.1 Project Manager

3.2 Sampling Coordinator

3.3 Analytical Laboratories

4.0 SAMPLING METHODS AND REQUIREMENTS

This section describes the methods for obtaining representative samples and the applicable documentation and quality control requirements.

4.1 Selection of Sampling Points

Figure 1 describes the sampling points for the piping for D-8 cell. Sample Point A represents the old D-8 transfer line from the plant. It is not certain if any final flushes were conducted of this piping. Sample Point B is the new transfer line put in service in the mid 1990's. This line was flushed with 2000 liters of water after the final transfer. Sample Point C is the transfer line from the D-8 tank to the D-5 tank.

4.4 Equipment, Sample Containers and Sample Preservation

Samples will not be preserved according to RCRA protocol at the PFP Analytical Laboratory due to lack of refrigerated storage equipment. Due to the nature of the sampling method only one sample bottle will be filled for all analysis.

Table 3. Sample Containers, Sample Preservation, and Hold Times

Constituent	Container	Sample Size	Preservation	Holding Time	Detection Limit	Analytical Method
Corrosivity	Polyethylene	100 mL	Cool 4 degrees C	Immediate	2, 12.5	
VOAs	?????		Cool 4 degrees C	14 days	See WAC 173-303-090	
Metals			Cool 4 degrees C	6 months	See below	
Arsenic (As)					5.0 mg/L	
Barium (Ba)					100 mg/L	
Cadmium (Cd)					1.0 mg/L	
Chromium (Cr)					5.0 mg/L	
Lead (Pb)					5.0 mg/L	
Selenium (Se)					1.0 mg/L	
Silver (Ag)					5.0 mg/L	

4.5 Sample Identification and Chain of Custody

4.6 Documentation

4.7 Problems or Deviations from Sampling Procedures

Any problems encountered during sampling or deviations from this SAP must be documented in the logsheet and communicated to the sampling coordinator as quickly as possible. Where a problem or deviation could affect the usability of the data for the DQO stated in this SAP, the sampling coordinator will contact the project manager to determine the appropriate action to be taken (e.g., discontinue sampling, modify the sampling procedure, or continue sampling).

5.0 SAMPLE ANALYSIS METHODS AND REQUIREMENTS

5.1 Laboratory

The PFP Analytical Laboratory is the preferred laboratory for pH and Pu isotopic analyses. 222-S Laboratory is the preferred laboratory to perform confirmatory pH, metals and volatile organic analyses.

5.2 Analysis Methods and Hold Times

Each sample shall be analyzed by the methods identified in Table 1. It is unlikely that RCRA hold times will be met for corrosivity and volatile organic analyses due to amount of time required to collect, ship, receive, breakdown and analyze the samples. It is likely that the RCRA hold times will be met for metals analysis.

5.3 Quality Control

The 222-S Laboratory Complex will conduct all sample analyses according to the *Analytical Services Project Quality Assurance Program Plan*, HNF-6806, as amended.

The quality assurance/quality control (QA/QC) requirements for blanks and duplicates are specified in HNF-SD-CP-QAPP-016 for the 222-S Laboratory Complex. These quality assurance program plans are based on and implement the requirements of DOE/RL-96-68, *Hanford Analytical Services Quality Assurance Requirements Document*. Duplicate and spiked samples shall be run on each sample group.

5.4 Analysis Report

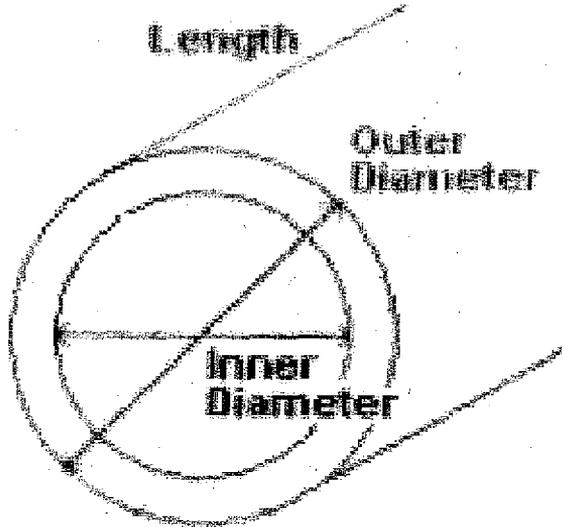
5.5 Problems or Deviations from Analysis Methods

Any problems during analysis or deviations to the analysis method must be communicated to the project manager as quickly as possible. Where a problem or deviation could affect the usability of the data for the data quality objectives stated in this SAP, the analytical laboratory contact shall contact the project manager to determine the appropriate action to be taken (e.g., discontinue analysis, use an alternate procedure, continue analysis despite problems).

Actual Pipe Dimensions:

Dimension	Value
Normal	2"
OD	2.175"
ID	2.067"
Wall	0.154"

Weight/linear foot: 1.6193 pounds



Volume of pipe

ID= 2.067 inch
5.25018 cm

$\pi r^2 \cdot L$ 55 CC per inch (2.54 cm)

PFP Project Managers Meeting
Federal Building/Room 248
Richland, Washington
March 10, 2005
330 p.m. – 4:30 p.m.
Meeting Minutes Transmittal

Distribution:

J. M. Ayres	Ecology	HO-57
D. Bartus	EPA	HO-57
F. W. Bond	Ecology	HO-57
S. L. Charboneau	RL	A5-11
D. A. Faulk	EPA	B5-01
K. A. Hadley	FH	T3-10
R. E. Heineman	FH	T1-40
A. M. Hopkins	FH	H8-25
D. E. Jackson	RL	A4-52
G. A. Johnston	FH	T5-30
J. T. Lilly	FFS	T4-32
S. J. Killooy	POLES	T3-10
E. M. LaRock	FH	T4-33
E. M. Mattlin	RL	A5-15
B. B. Nelson-Maki	FH	R3-32
S. H. Norton	FH	T4-32
R. E. Piippo	FH	A4-25
R. W. Oldham	FH	T3-10
C. J. Simiele	FH	T5-51
T. C. Synoground	FH	T4-33
P. K. Sato	FH	T4-33
C. S. Sutter	FH	T5-50
M. Talbot	FH	T5-47
W. A. Woolery	RL	A6-33

ADMINISTRATIVE RECORD (two copies): A4-25
Debbi Isom (two copies): H6-08

Please send comments on distribution list to Rob Piippo, A4-25 (373-3285).