

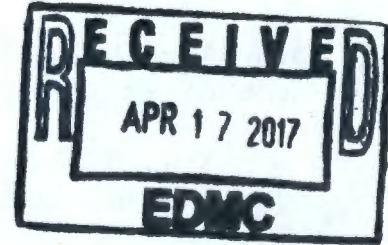
Meeting Minute Approval Sheet

**222-S Project Managers' Meeting  
And Miscellaneous Laboratory Issues  
(TSD: TS-2-1; Operating Unit 8)**

Ecology Offices, 3100 Port of Benton Blvd.

October 19, 2016

9:00 am – 10:00 am



DOE: Jeff Cheadle 3/1/2017

Jeff Cheadle

Date

ECOLOGY: Elis Eberlein 3/1/2017

Elis Eberlein

Date

## MEETING MINUTES

Page 1 of 2

### Meeting Attendees:

See Attachment 1 for the list of attendees.

### Agreements, Commitments, and Action Items:

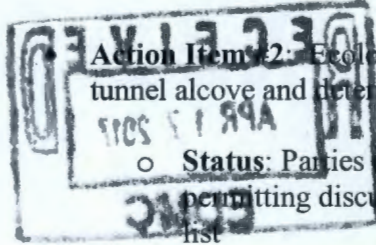
See Attachment 1 to the 8/17/16 meeting minutes for the list of Action Items and Parking Lot Items.

Two actions were evaluated and will be converted to Parking Lot Items

The status of each action was reviewed as follows:

- **Action Item #1:** WRPS to evaluate Tank 103 analytical data and propose a path forward for the tank and potential waste residue.

- **Status:** Parties agreed that this action would be resolved during ongoing permitting discussions and the action should be moved to the Parking Lot Items list.



- **Action Item #2:** Ecology to review the synopsis of the status of piping staged in the T-8 tunnel alcove and determine a permitting path forward.

- **Status:** Parties agreed that this action would be resolved during ongoing permitting discussions and the action should be moved to the Parking Lot Items list.

### 222-S TSD or Miscellaneous Issues:

The following miscellaneous issues were discussed:

- WRPS provided an update on work to replace the P-1 pump in the 219-S waste handling facility. The pump failed during an attempt to transfer Tank 102 contents to SY Tank Farm. The pump will need to be replaced and a work package to perform an investigative survey of the tank vault has been prepared. The surveys are expected to occur in late October 2016. Ecology asked if the 219-S tanks have sufficient empty space to accommodate analytical waste. WRPS said empty space is available in tanks 101 and 104 for the near term.
- WRPS provided an update on a treatability study that was initiated at 222-S in August 2016. The study involved compositing several tank waste supernate samples, filtering for solids, and performing ion exchange to remove cesium. These treatment activities were recently completed in the 11A hot cell and the treated material is ready to ship to Permafrix Northwest.

- WHL provided information on several events of interest, as described in the WHL Analytical Report section of these minutes.

222-S RCRA TSD Permit Issues:

- Ecology discussed that they would host a workshop regarding the 222-S Part A in November  
Ecology stated they would send out comments on the Part A prior to the workshop.

222-S Laboratory Operations and Analytical Status:

Analytical and Operational reports are attached to these minutes.

Next Meeting:

December 14, 2016

3100 Port of Benton Blvd.

9-10 am

Attachments - 1

## Attachment 1

1. Agenda
2. Attendance Roster
3. 222-S Lab Operations and Analytical Reports
4. Action Items/Parking Lot Items

222-S Project Managers Meeting  
And Miscellaneous Laboratory Issues  
Washington State Department of Ecology Offices  
3100 Port of Benton Blvd., Richland, WA

October 19, 2016

Agenda

1. Introductions
2. Approval of Previous Meeting Minutes
3. Agreements, Commitments, and Status of Action Items
4. 222-S TSD or Miscellaneous Issues
5. 222-S RCRA TSD Permit Issues
6. 222-S Laboratory
  - a. Operations Report
  - b. Analytical Report
7. Review of New Action Items

Meeting held on October 19, 2016

### Attendance Roster

Name	Affiliation	Contact
Erik Van Mason	WRPS 222-S	373-7438
Keith Greenagh	WRPS 222-S	373-9541
Ed Soto	Ecology	372-7933
Rob Schroeder	WHL	373-5810
Elis Eberlein	Ecology	372-7906
Vee Sondag	DRP-ECD	373-9177
James T. Hamilton	WRPS -	373-1511
John Doughty	WRPS	376-6950
Jeff Cheadle	DRP	376-0755
Tim Medford	WRPS	373-0443
Lucinda Barnum	WRPS	373-2824

WRPS Operations/Analytical Report  
August 17, 2016 – October 19, 2016

<b>Activities of Note</b>	
<b>Operational Activities</b>	<b>Date</b>
Completed periodic flushing of waste transfer lines from 222-S to 219-S tank 104.	8/18/2016
Completed HEPA filter testing in the 222-SC filter building.	8/22/2016
Completed installation of new Autosampler, Concentrator, Oven and Diluter for TVAT instrumentation in lab 11-A	8/23/2016
Performed calibration of sampling instrumentation for 296-S-16 stack. This stack provides ventilation for the 219-S waste storage tanks.	8/25/2016
Completed temporary modification of the 11-A hotcell inlet damper to allow manual operation.	8/25/2016
Completed installation of new control wiring and heat trace power for EF-4.	9/2/2016
Performed periodic waste line flushing from 11-A hotcells to 219-S.	9/2/2016
Completed EF-4 engine replacement and operability testing.	9/8/2016
Completed removal and disposal of shredder from room 2B.	9/21/16
Freight elevator upgrade completed.	9/26/16
Completed Cesium separation for the Radioactive Waste Test Bed (RWTB) project in preparation for shipment to Permafix Northwest for further treatment.	9/22/16
Completed pre-requisite activities for the performance of 219-S entries for investigative surveys.	10/10/2016
Calibrated stand-by EF-4 remote start switch	10/14/2016

<b>FY2016 222-S Laboratory Upgrades</b>	
<b>EF-4 Diesel Engine Installation:</b> Engine is installed and operational.	Status as of 10/18/2016
<b>Freight Elevator Upgrade:</b> Construction complete.	
<b>TVAT instrument installations:</b> Instrumentation complete.	
<b>New Non-Rad Standards Laboratory:</b> Design being finalized in October FY17.	

<b>Analytical Equipment</b>
<u>FY2014 Carryover:</u>
<ul style="list-style-type: none"> <li>• Automated Solvent Extractor (ASE): Installation completed in September FY16.</li> </ul>
<u>FY2016:</u>
<ul style="list-style-type: none"> <li>• (2) Multipotentiostats (WRPS Corrosion testing): Both units has been received. One installation is complete. The other installation is planned for FY17.</li> </ul>

<b>Waste Shipments</b>		
<b>Waste Type</b>	<b>Containers Shipped from 222S (8/17/16 – 10/18/16)</b>	<b>Receiving Facility</b>
LLW	11	PFNW
DW	16	Stericycle
MW	3	PFNW
MW	8	PFTN (Tennessee)
Recycle	14	CCRC
LLW	3	ERDF
TRU/TRUM	2	CWC

LLW: Low-level radioactive waste

DW: Dangerous Waste (non-radioactive Dangerous Waste)

MW: Mixed waste



## Wastren Advantage, Inc. Hanford Laboratory (WHL)

### 222-S Analytical Contractor Quarterly Report – October 2016

#### Events of Interest

1. On 09/14/2016 WHL and WRPS supported WDOE with an SAA inspection and follow-up questions regarding: a) Broken AY101 grab samples received in the summer of 2015, and b) A broken analytical waste collection container found in room 4L fume hood #11 in March of 2016.  
Both questions were answered to the satisfaction of the inspection team.
2. On 9/28/16 at approximately 9:35 AM, in room 4H of the 222-S Laboratory, A flask containing ~20ml of methylene chloride reagent was accidentally dropped onto the floor, breaking the flask. The spilled methylene chloride quickly evaporated and could not be recovered. No personnel were injured during this event. This event was reported to Ecology on TOC-ENV-NOT-2016-4288.
3. On 10/10/2016 at approximately 15:00, in the 222-S counting room, two liquid scintillation counting (LSC) vials fell from a bench top work area and broke on the floor. The vials contained 38 mL total of LSC fluid and 2 mL of non-radioactive client sample (water from a diesel boiler). No personnel were injured and no material has entered the environment. This event was reported to Ecology on TOC-ENV-NOT-2016-4292.

#### Contract Performance Metrics

##### Report on Time Deliverables

In Calendar Year 2016, 99.5% of deliverables have been reported on time (167 deliverables were on time or early). (FY 2016 98.4%)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sept
Monthly Totals	0	2	15	15	18	28	12	23	21	23	19	10
<b>CY 2016 Total</b>				15	33	61	73	96	117	140	159	169
<b>FY 2016 Total</b>	0	2	17	32	50	78	90	113	134	157	146	186

**QA Evaluations/Proficiency Tests:**

The total number of analyses performed in CY 2016 is 551 with 524 being acceptable, resulting in 95.1% performance level.

<b>QA Evaluations/Proficiency</b>				
<b>Study Summary Results Status of 9/30/2016</b>				
<b>Report Data</b>	<b>Study</b>	<b>Reported</b>	<b>Correct</b>	<b>Study %</b>
2/6/2016	IHPAT -204	12	0	0.00
3/7/2016	WP252	169	169	100.00%
4/15/2016	BePAT 40	3	3	100.00%
4/15/2016	IHPAT 204 Re-Test	12	12	100.00%
5/17/2016	MRAD24	43	43	100.00%
6/6/2016	SOIL94	164	164	100.00%
6/7/2016	MAPEP-34	49	36	73.47%
8/15/2016	BePAT-41	4	4	100.00%
8/15/2016	IHPAT -206	12	12	100.00%
9/6/2016	WP258	72	70	97.22%
9/12/2016	SOIL95	11	11	100.00%
<b>CY 2016 Total</b>		<b>551</b>	<b>524</b>	<b>95.10%</b>
<b>FY 2016 Total</b>		<b>7801</b>	<b>748</b>	<b>95.9%</b>

**Holding Time Performance:**

The holding times metric for calendar year 2016 is 99.8% as of September 30, 2016.

Holding Time Metric for CY 2016				
Status of 7/31/2016				
Detail by Month				
	Total	Met	Missed	% Met
January	314	314	0	100.00%
February	118	118	0	100.00%
March	245	244	1	99.60%
April	184	186	2	98.90%
May	162	162	0	100.00%
June	278	273	0	100.00%
July	101	98	0	100.00%
August	30	26	4	86.7%
September	27	27	0	100.0%
<b>2016 Total</b>	<b>1459</b>	<b>1451</b>	<b>8</b>	<b>99.5%</b>
<b>FY 2016</b>	<b>1605</b>	<b>1597</b>	<b>8</b>	<b>99.5%</b>

### Projects in Progress

- Test Bed Samples
- NH3 & Hg Vapor Tubes
- SY103 Chemistry Control
- AW103 Grab
- Separable Organics
- AN101 Floating Solids-APD
- Sump Pump 7
- AN101 Floating Solids APD

### 30-Day Forecast

- UX-302A Catch Tank
- AY-102 Annulus

**222S TSD TPA PMM**  
**Action Items and Parking Lot Items**

<b><u>ACTION ITEMS</u></b>			
<b>#</b>	<b>Action</b>	<b>Due Date</b>	<b>Status</b>
<b>2</b>	WRPS to evaluate Tank 103 analytical data and propose a path forward for the tank and potential waste residue.	-	<b>OPEN</b>
<b>1</b>	Ecology to review the synopsis of the status of piping staged in the T-8 tunnel alcove and determine a permitting path forward.	-	<b>OPEN</b>
<b><u>PARKING LOT ITEMS</u></b>			
<b>#</b>	<b>Action</b>	<b>Resolution</b>	
<b>PL1</b>	Revise permit text regarding Tank 103 to better describe why Tank 103 is being left in place until Closure.	To be resolved during Permit Working Group meetings	