



Department of Energy

Idaho Operations Office
1955 Fremont Avenue
Idaho Falls, ID 83415

May 7, 2018

Rod Lobos, FFA/CO Manager
Environmental Protection Agency
825 Jadwin Avenue, Suite 210
Richland, WA 99352

Daryl F. Koch, FFA/CO Manager
Waste Management and Remediation Division
Idaho Department of Environmental Quality
1410 North Hilton
Boise, ID 83706-1222

SUBJECT: Transmittal of April 2018 Federal Facility Agreement and Consent Order Monthly Report (WDP-RWMC-18-011)

Dear Mr. Lobos and Mr. Koch:

In accordance with Section XVII, Reporting of the Federal Facilities Agreement and Consent Order (FFA/CO), transmitted herewith are copies of the April 2018 FFA/CO Monthly Report.

If you have any questions, please contact me at (208) 526-5793.

Sincerely,

A handwritten signature in cursive script that reads "Nolan R. Jensen".

Nolan R. Jensen, FFA/CO Project Manager
Department of Energy, Idaho Operations Office

Enclosure: INL Federal Facility Agreement and Consent Order Monthly Report

cc: S. D. Lee, MFC
C. Henvit, NR-IBO
F. P. Hughes, Fluor Idaho
M. Jewett, Fluor Idaho
B. Meagher, Fluor Idaho

ID DISTRIBUTION:

CONCURRENCE:

Email to: ! DOE-ID EDMS Correspondence (ASC)

Email to: ! Records Management

Jensen, Nolan R.

Malmo, James A.

Natoni, Christian

Watson, Will

Zimmerman, John P

RECORD NOTES:

1. This letter was prepared to transmit the April 2018 FFA/CO Monthly Report to the Agencies per the FFA/CO, Section 17.
2. This letter was prepared by Nolan Jensen.
3. This letter/memo closes Zeus number: NA
4. The attached correspondence has no relation to the Naval Nuclear Propulsion Program.

IDAHO CLEANUP PROJECT



IDAHO NATIONAL LABORATORY FEDERAL FACILITY AGREEMENT AND CONSENT ORDER (FFA/CO) MONTHLY REPORT

April 2018

FFA/CO Report

SCOPE

The Department of Energy – Idaho Operations Office (DOE-ID) through their contractors have responsibility for regulation-compliant characterization, assessment, and remediation of identified release sites listed in the Idaho National Engineering and Environmental Laboratory (INEEL) *Federal Facility Agreement and Consent Order (FFA/CO)*. Planned cleanup activities include excavation, removal, treatment, stabilization, containment, long-term monitoring, and institutional controls, as required to meet regulatory commitments. Activities are structured to effectively and efficiently conduct characterization, assessment, and remediation of all Waste Area Groups (WAGs) and identified release sites listed in the FFA/CO for the Idaho National Laboratory (INL).

The environmental cleanup is structured along the following administrative units:

1. WAG 1 – Test Area North (TAN) Remediation
2. WAG 2 – Reactor Technology Complex (RTC) Remediation (formerly Test Reactor Area –[TRA])
3. WAG 3 – Idaho Nuclear Technology and Engineering Center (INTEC) Remediation
4. WAG 4 – Central Facilities Area (CFA) Remediation
5. WAG 5 – Power Burst Facility/Auxiliary Reactor Area (PBF/ARA) Remediation
6. WAG 7 – Radioactive Waste Management Complex (RWMC) Remediation
7. WAG 8 – Naval Reactors Facility (NRF)
8. WAG 9 – Materials and Fuels Complex (MFC) (formerly Argonne National Laboratory-West ANL-W)
9. WAG 6/10 – Miscellaneous Soil Areas and Groundwater and Long-term Stewardship (LTS)

April 2018 ACCOMPLISHMENTS

- Waste received at the ICDF for the fiscal month April 2018:
 - Solid waste received at landfill: .49 m³
 - Liquid waste received at the evaporation ponds: 6,224 gal
- Continued ARP VIII waste exhumation.
- Continued ARP IX preparations.
- Completed ISB injection at TAN on April 9th, 2018.
- Completed the WAG 3 perched water sampling and semi-annual water level measurements April 19th, 2018.
- The WAG 7 Vapor Vacuum Extraction and Treatment (VVET) system removed and treated approximately 306 pounds of total volatile organic compounds (TVOCs) from the vadose zone during the period from March 26th, 2018 to April 22nd, 2018.

Note: Summary totals may not agree with the sum of unit totals due to rounding

| Organic Contamination in the Vadose Zone Remedial Action. | |
|--|--|
| Since the beginning of operations in January of 1996, the following amounts of VOCs have been removed and treated. | |
| Total Cumulative | Total Current Month |
| approximately 253,653 lb of TVOC | approximately 306 lb of TVOC |
| approximately 142,159 lb of CCl ₄ | approximately 102 lb of CCl ₄ |
| The cumulative below represents the entire volume per unit since the initiation of operations in January 1996 | |
| Cumulative | Current Month |
| Unit D | |
| 52,924 lb TVOC | 98 lb TVOC |
| 22,506 lb CCl ₄ | 24 lb CCl ₄ |

| Unit E | |
|----------------------------|------------------------|
| 73,145 lb TVOC | 109 lb TVOC |
| 42,666 lb CCl ₄ | 40 lb CCl ₄ |
| Unit F | |
| 127,584 lb TVOC | 99 lb TVOC |
| 76,987 lb CCl ₄ | 38 lb CCl ₄ |

FFA/CO Documents:

- Submitted the draft Vadose Zone Vapor Rebound Study to the Agencies for review March 27th, 2018.
- Submitted the draft OU 3-14 Long Term Monitoring Plan to the Agencies April 17th, 2018.

Support Activities:

- Processed 4.3 M gallons of water at NPTF.
- Completed TAN well maintenance.
- Repaired Pad A subsidence on April 9th, 2018.
- Held Agencies meeting on April 18th, 2018 to resolve comments on the SDA 30% design and understand expectations moving forward.

ISSUES

None

90-DAY LOOK AHEAD

May

- Continue ICDF operations and maintenance as required.
- Receive and dispose of waste in the ICDF.
- Continue ARP facility minimum required maintenance.
- Continue ARP VIII exhumation operations.
- Compile and report targeted waste retrieval and shipment data.
- Complete the WAG 3 annual aquifer sampling event.
- Submit draft letter and Westbay well rehabilitation plan memo.
- Submit draft of FY 2017 IC/O&M report to the Agencies.
- Submit the final WAG 4 annual report to the Agencies.
- Begin IC inspections and O&M as necessary.
- Complete the WAG 7 quarterly vapor sampling event.
- Submit the draft Long-Term Monitoring Study to the Agencies.
- Maintain CERCLA data management systems.
- Complete TAN monthly sampling and annual water level measurements.
- Continue operations and maintenance of the vapor vacuum extraction system in the Subsurface Disposal Area.
- Complete the OCVZ monthly well sampling and transmit monthly report to the Agencies.
- Complete NSI forms as necessary.

June

- Continue ICDF operations and maintenance as required.
- Receive and dispose of waste in the ICDF.
- Continue ARP facility minimum required maintenance.

- Continue ARP VIII exhumation operations.
- Compile and report targeted waste retrieval and shipment data.
- Complete engineering evaluation for Tank Farm.
- Maintain CERCLA data management systems.
- Continue IC inspections and O&M as necessary.
- Complete TAN monthly sampling.
- Submit the ANL-04 characterization report to the Agencies for review.
- Continue operations and maintenance of the vapor vacuum extraction system in the Subsurface Disposal Area.
- Complete the OCVZ monthly well sampling and transmit monthly report to the Agencies.
- Complete NSI forms as necessary.

July

- Continue ICDF operations and maintenance as required.
- Receive and dispose of waste in the ICDF.
- Continue ARP facility minimum required maintenance.
- Continue ARP VIII exhumation operations.
- Compile and report targeted waste retrieval and shipment data.
- Complete Westbay wells rehabilitation.
- Maintain CERCLA data management systems.
- Complete TAN quarterly sampling.
- Begin well maintenance evolution.
- Continue operations and maintenance of the vapor vacuum extraction system in the Subsurface Disposal Area.
- Complete the OCVZ monthly well sampling and transmit monthly report to the Agencies.
- Complete NSI forms as necessary.

Significant activities planned to occur in FY 2018:

- Perform annual institutional controls inspections.
- Continue operation of Environmental Data Warehouse and GIS Database.
- Perform site-wide groundwater monitoring as required by field sampling plans.
- Complete the FY 2017 OU 1-07B Annual Report.
- Complete the Annual Groundwater Monitoring Report for WAG 2.
- Complete the FY 2017 OU 3-14 Operations and Maintenance Report.
- Complete the revised WAG 3 Interim Remedial Action Report - **Complete**
- Complete the revised WAG 3 O&M Plan - **Complete**
- Complete site MISC-50 report and Part B determination - **Complete**
- Complete the Annual Groundwater Monitoring Report for WAG 4 - **Complete**
- Complete annual letter report for OU 7-13/14 Operations and Maintenance - **Complete**
- Complete the revised INL Site-wide Institutional Controls, and Operations and Maintenance Plan for CERCLA - **Complete**
- Continue operations and maintenance of the vapor vacuum extraction system in the Subsurface Disposal Area.
- Complete the annual WAG 10 Annual Groundwater Monitoring Report - **Complete**
- Complete the annual groundwater monitoring report for WAG 7 - **Complete**
- Complete the annual soil moisture monitoring and reporting for WAG 7 - **Complete**

- Complete the FY 2017 Annual INL Site-Wide Institutional Controls and Operations and Maintenance Report.
- Complete Part B determinations for sites TRA-79, -80, and -61/82 at the ATRx.
- Complete the Long-Term Monitoring Plan report for WAG 7.
- Complete the Vadose Zone Rebound Study Plan for WAG 7.
- Complete the Technical and Functional Requirements for the SDA cap design - **Complete**
- Complete the 30% Preliminary Design for the SDA cap.