



Department of Energy

Idaho Operations Office
1955 Fremont Avenue
Idaho Falls, ID 83415

September 12, 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 August 2018 Federal Facility Agreement and Consent Order Monthly Report (WDP-RWMC-18-018)

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 August 2018 FFA/CO Monthly Report.

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

Sincerely,

A handwritten signature in black ink, appearing to read "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

IDAHO CLEANUP PROJECT



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

August 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)

August 2018 ACCOMPLISHMENTS

- Waste received at the ICDF for the fiscal month August 2018:
 - Solid waste received at landfill: 22.94 m³
 - Liquid waste received at the evaporation ponds: 17 gal
- Continued ARP VIII waste exhumation.
- Continued ARP IX preparations.
- Completed in situ bioremediation injection at TAN on August 6th, 2018.
- Completed TAN monthly groundwater sampling August 14th, 2018.
- Completed WAG 4 groundwater sampling on August 16th, 2018.
- The WAG 7 Vapor Vacuum Extraction and Treatment (VVET) system removed and treated approximately 270 pounds of total volatile organic compounds (TVOCs) from the vadose zone during the period from July 23rd, 2018 to August 26th, 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 254,995 lb of TVOC approximately 142,643 lb of CCl ₄	approximately 270 lb of TVOC approximately 98 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	
53,308 lb TVOC 22,629 lb CCl ₄	82 lb TVOC 26 lb CCl ₄
Unit E	
73,593 lb TVOC 42,833 lb CCl ₄	114 lb TVOC 41 lb CCl ₄
Unit F	
128,094 lb TVOC 77,181 lb CCl ₄	74 lb TVOC 31 lb CCl ₄

FFA/CO Documents:

- Submitted ANL-04 Risk Evaluation and memo to file for agency review on July 30th, 2018.
- Completed three TRA NSI Part B evaluations on August 1st, 2018.
- Submitted the final IC and O&M Report for FY 2017 on August 8th, 2018.

Support Activities:

- Processed 4.4 M gallons of water at NPTF.
- Continued Westbay wells rehabilitation.

ISSUES

None

90-DAY LOOK AHEAD

September

- 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.
- Start WAG 7 lysimeter vacuum application.
- Complete WAG 7 quarterly vapor sampling.
- Perform WAG 3 semi-annual perched water level measurements.
- Complete ICDF water levels and semi-annual groundwater sampling.
- Complete WAG 4 vapor sampling.
- Continue Westbay wells rehabilitation.
- Maintain CERCLA data management systems.
- Complete TAN monthly sampling.
- Continue operations and maintenance of the New Pump and Treat Facility at TAN.
- 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.

October

- 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 WAG 2 annual groundwater sampling.
- Maintain CERCLA data management systems.
- Complete TAN quarterly sampling.
- Complete WAG 7 lysimeter sampling.
- Continue operations and maintenance of the New Pump and Treat Facility at TAN.
- 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.

November

- 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.
- Maintain CERCLA data management systems.
- Complete TAN monthly sampling.
- Continue operations and maintenance of the New Pump and Treat Facility at TAN.
- 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 - **Complete**
- 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**
- Complete the Annual Groundwater Monitoring Report for WAG 2 - **Complete**
- Complete the Annual Monitoring Report for WAG 4 - **Complete**
- Complete the FY 2017 OU 3-14 Operations and Maintenance Report - **Complete**
- 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**
- 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 Westbay Rehabilitation Sampling and Analysis Plan - **Complete**
- Complete CERCLA O&M site inspections – **Complete**
- Complete ISB injections at TAN - **Complete**
- Complete the FY 2017 Annual INL Site-Wide Institutional Controls and Operations and Maintenance Report - **Complete**
- Complete Part B determinations for sites TRA-79, -80, and -61/82 at the ATRx - **Complete**
- Complete the Long-Term Monitoring Plan report for WAG 7 - **Complete**
- Complete the Vadose Zone Rebound Study Plan for WAG 7 - **Complete**
- Complete the Technical and Functional Requirements for the SDA cap design - **Complete**
- Complete the 30% Preliminary Design for the SDA cap - **Complete**

ID DISTRIBUTION:

CONCURRENCE:

Email to: ! DOE-ID EDMS Correspondence (ASC) None
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 August 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 closes Zeus number: NA
4. The attached correspondence has no relation to the Naval Nuclear Propulsion Program.