



Department of Energy

Idaho Operations Office
1955 Fremont Avenue
Idaho Falls, ID 83415

August 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 July 2018 Federal Facility Agreement and Consent Order Monthly Report (WDP-RWMC-18-016)

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 July 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

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 July 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.

N. Jensen, (WDP); J. Holt, 6-0301; August 7, 2018, O:\DOE-ID\EM-ICP\WDP\RWMC\RWMC
2018 Letters\WDP-RWMC-18-016 Transmittal of July 2018 FFA_CO Monthly Report 

IDAHO CLEANUP PROJECT



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

July 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)

July 2018 ACCOMPLISHMENTS

- Waste received at the ICDF for the fiscal month July 2018:
 - Solid waste received at landfill: 59.76 m³
 - Liquid waste received at the evaporation ponds: 0 gal
- Continued ARP VIII waste exhumation.
- Continued ARP IX preparations.
- Completed TAN quarterly groundwater sampling July 19th, 2018.
- The WAG 7 Vapor Vacuum Extraction and Treatment (VVET) system removed and treated approximately 347 pounds of total volatile organic compounds (TVOCs) from the vadose zone during the period from June 25th, 2018 to July 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 254,726 lb of TVOC approximately 142,544 lb of CCl ₄	approximately 347 lb of TVOC approximately 128 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	
53,226 lb TVOC 22,602 lb CCl ₄	100 lb TVOC 34 lb CCl ₄

Unit E	
73,480 lb TVOC 42,791 lb CCl ₄	113 lb TVOC 43 lb CCl ₄
Unit F	
128,020 lb TVOC 77,151 lb CCl ₄	134 lb TVOC 51 lb CCl ₄

FFA/CO Documents:

- Transmitted the final WAG 3 Long-Term Monitoring Plan to the Agencies on June 28, 2018.
- Transmitted the final Vadose Zone Vapor Rebound Study for Operable Unit 7-13/14 on June 28th, 2018.
- Transmitted the final WAG 4 Long-Term Monitoring and Field Sampling plan to the Agencies July 9th, 2018.
- Transmitted the final Risk Evaluation for CERCLA Sites TRA-61/82, TRA-79 and TRA-80 to the Agencies July 18th, 2018.
- Transmitted the final WAG 3 FY17 Annual Report to the Agencies on July 19th, 2018.

Support Activities:

- Processed 3.4 M gallons of water at NPTF.
- Continued Westbay wells rehabilitation.
- Installed ultrasonic flow meter on INTEC's firewater booster pump discharge pipe inside CPP-606 on June 27th, 2018.

ISSUES

None

90-DAY LOOK AHEAD

August

- 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.
- Submit the ANL-04 characterization report to the Agencies for review.
- Continue Westbay wells rehabilitation.
- Complete In Situ Bioremediation amendment injection at TAN.
- Complete FY17 IC and O&M report for CERCLA sites.
- Complete WAG 4 water levels and groundwater sampling.
- Complete TRA NSI Part B evaluations (3).
- Submit the ANL-04 characterization report to the Agencies for review.
- 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.

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.
- Perform WAG 3 semi-annual perched water level measurements.
- Complete ICDF water levels and semi-annual groundwater sampling.
- Complete WAG 4 vapor sampling.
- Complete 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.
- 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.
- 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 Westbay wells rehabilitation.
- Complete ISB injections at TAN - **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**
- 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**