



## Department of Energy

### Idaho Operations Office

1955 Fremont Avenue  
Idaho Falls, ID 83415

October 17, 2019

David Einan, Unit Manager  
Environmental Protection Agency  
825 Jadwin Avenue, Suite 210  
Richland, WA 99352

Pete Johansen, FFA/CO Program Supervisor  
Waste Management and Remediation Division  
Idaho Department of Environmental Quality  
1410 North Hilton  
Boise, ID 83706-1222

SUBJECT: Transmittal of September 2019 Federal Facility Agreement and Consent Order  
Monthly Report (CLN200088)

Dear Mr. Einan and Mr. Johansen:

In accordance with Section XVII, Reporting of the Federal Facilities Agreement and Consent Order (FFA/CO), transmitted herewith are copies of the September 2019 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", with a long horizontal line extending to the right.

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  
Erik Whitmore, Fluor Idaho

**ID RECORD PAGE**

*[This page and concurrence notes/emails for internal distribution only]*

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 correspondence record belongs to: WDP/RWMC
2. This letter was prepared to transmit the September 2019 FFA/CO Monthly Report to the Agencies per the FFA/CO, Section 17.
3. This letter was prepared by Nolan Jensen. 
4. This letter closes Zeus number: NA
5. The attached correspondence has no relation to the Naval Nuclear Propulsion Program.

  
N. Jensen, (WDP); J. Holt, 6-0301; September 17, 2019; O:\DOE-ID\EM-  
ICP\WDP\RWMC\FY20 RWMC Letterlog\CLN200088 Transmittal of September 2019 FFA  
\_CO Monthly Report

# IDAHO CLEANUP PROJECT



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

September 2019

## 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)

### September 2019 ACCOMPLISHMENTS

- Waste received at the ICDF for the fiscal month September 2019:
  - Solid waste received at landfill: 69.77 m<sup>3</sup>
  - Liquid waste received at the evaporation ponds: 2,072 gal
- Continued ARP IX exhumation.
- The WAG 7 Vapor Vacuum Extraction and Treatment (VVET) system removed and treated approximately 107 pounds of total volatile organic compounds (TVOCs) from the vadose zone during the period from August 26<sup>th</sup>, 2019 through September 30<sup>th</sup>, 2019.
- Completed the TAN monthly sampling on September 17<sup>th</sup>, 2019.
- Completed the WAG 3 FY 2019 semi-annual perched water level measurements and data downloads on September 11<sup>th</sup>, 2019.
- Completed the seal coat application of the recharge control zone area outside the Tank Farm on September 15<sup>th</sup>, 2019.
- Completed the quarterly inspection of the surface water collection system and evaporation pond on September 23<sup>rd</sup>, 2019.
- Completed the quarterly Pad A inspection on September 16<sup>th</sup>, 2019.
- Transmitted the annual WAG 7 groundwater monitoring letter report on September 3<sup>rd</sup>, 2019.
- Completed the closure of the shallow injection well CPP-142 on September 24<sup>th</sup>, 2019.
- Completed the WAG 4 annual vapor port sampling on September 12<sup>th</sup>, 2019.
- Submitted the L&V reports for the WAG 10 biennial groundwater sampling on September 25<sup>th</sup>, 2019.

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 256,480 lb of TVOC approximately 143,048 lb of CCl <sub>4</sub>	approximately 107 lb of TVOC approximately 33 lb of CCl <sub>4</sub>
The cumulative below represents the entire volume per unit since the initiation of operations in January 1996	
Cumulative	Current Month
Unit D	
54,008 lb TVOC 22,736 lb CCl <sub>4</sub>	36 lb TVOC 7 lb CCl <sub>4</sub>
Unit E	
73,918 lb TVOC 42,951 lb CCl <sub>4</sub>	35 lb TVOC 11 lb CCl <sub>4</sub>
Unit F	
128,554 lb TVOC 77,361 lb CCl <sub>4</sub>	36 lb TVOC 15 lb CCl <sub>4</sub>

FFA/CO Documents:

- Transmitted final NSI Part As for NSI-26038, NSI-26039, and NSI-26040 on September 24<sup>th</sup>, 2019.
- Transmitted final FY 2018 WAG 3 annual report on September 17<sup>th</sup>, 2019.

Support Activities:

- Conducted routine operations at the NPTF, processed 3.3M gallons of water between August 26<sup>th</sup> and September 30<sup>th</sup>, 2019.
- Completed trouble shooting and repair of VVET system Unit D on September 24<sup>th</sup>, 2019.

**ISSUES**

None

**90-DAY LOOK AHEAD**

October

- Continue ICDF operations and maintenance as required.
- Receive and dispose of waste in the ICDF.
- Continue ARP facility minimum required maintenance.
- Continue ARP IX preparation and begin exhumation.
- Compile and report targeted waste retrieval and shipment data.
- Maintain CERCLA data management systems.
- Operate NPTF during weekdays to reduce TCE concentrations.
- Operate the VVET system 7 days a week, 24 hours a day.
- Complete TAN ISB injection at TAN-37.
- Complete TAN quarterly sampling.
- Complete WAG 3 aquifer water level measurements.
- Submit VVET system annual report.
- Begin CERCLA Five Year Review.

- Continue Westbay well rehabilitation.
- Support the CAB meeting for SDA cap design presentation on October 24<sup>th</sup>, 2019.

#### November

- Continue ICDF operations and maintenance as required.
- Receive and dispose of waste in the ICDF.
- Continue ARP facility minimum required maintenance.
- Continue ARP IX exhumation operations.
- Compile and report targeted waste retrieval and shipment data.
- Maintain CERCLA data management systems.
- Operate NPTF during weekdays to reduce TCE concentrations.
- Operate the VVET system 7 days a week, 24 hours a day.
- Complete TAN monthly sampling
- Complete TAN ISB injection at TAN-1860.
- Complete TAN monthly sampling.
- Perform 1<sup>st</sup> quarter FY 2020 Tank Farm remedy component inspection.
- Complete WAG 7 lysimeter sampling.
- Begin fall FY 2020 well maintenance activities.
- Continue Westbay well rehabilitation.
- Prepare draft CPP-142 NSI Part B.
- Complete survey and inspections at CERCLA sites impacted by the Sheep Fire.

#### December

- Continue ICDF operations and maintenance as required.
- Receive and dispose of waste in the ICDF.
- Continue ARP facility minimum required maintenance.
- Continue ARP IX exhumation operations.
- Compile and report targeted waste retrieval and shipment data.
- Maintain CERCLA data management systems.
- Operate NPTF during weekdays to reduce TCE concentrations.
- Operate the VVET system 7 days a week, 24 hours a day.
- Complete TAN ISB injections at TAN-1860.
- Prepare draft WAG 3 FY 2019 annual report.
- Submit VVET system mass removal report.
- Continue Westbay well rehabilitation.
- Prepare draft FY 2019 IC and O&M report.

#### Significant activities planned to occur in FY 2019:

- Perform annual institutional controls inspections. **Complete**
- Continue operation of Environmental Data Warehouse and GIS Database. **Complete**
- Perform site-wide groundwater monitoring as required by field sampling plans. **Complete**
- Complete the FY 2018 OU 1-07B Annual Report. **Complete**
- Complete the Annual Groundwater Monitoring Report for WAG 2. **Complete**
- Complete remediation of site CPP-142. **Complete**
- Complete the FY 2018 OU 3-14 Operations and Maintenance Report. **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 annual WAG 10 Annual Groundwater Monitoring Report. **FY 2020 submission**
- 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 wells rehabilitation. **Will continue through FY 2020**
- Complete CERCLA O&M site inspections. **Complete**
- Complete ISB injections at TAN. **Complete**
- Complete the FY 2018 Annual INL Site-Wide Institutional Controls and Operations and Maintenance Report. **Complete**
- Complete Part B determinations for sites PBF-39, TRA-83 and TRA-84. **Complete**
- Complete the SDA cap design. **Complete**