July 12, 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


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 July 2019 FFA/CO Monthly Report.

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

Sincerely,

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


cc: S. D. Lee, MFC
    C. Henvit, NR-IBO
    F. P. Hughes, Fluor Idaho
    M. Jewett, Fluor Idaho
    Erik Whitmore, Fluor Idaho
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Email to: ! Records Management  
Jensen, Nolan R.  
Malmo, James A.  
Natoni, Christian  
Watson, Will  
Zimmerman, John P  

CONCURRENCE:  

RECORD NOTES:  

1. This correspondence record belongs to: WDP/RWMC.  
2. This letter was prepared to transmit the July 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/memo closes Zeus number: NA  
5. 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

July 2019
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 2019 ACCOMPLISHMENTS
- Waste received at the ICDF for the fiscal month July 2019:
  - Solid waste received at landfill: 23.81 m³
  - Liquid waste received at the evaporation ponds: 24 gal
- Continued ARP IX exhumation.
- The WAG 7 Vapor Vacuum Extraction and Treatment (VVET) system removed and treated approximately 81 pounds of total volatile organic compounds (TVOCs) from the vadose zone during the period from June 24th, 2019 through July 21st, 2019.
- Completed the WAG 10 biannual groundwater sampling event on July 16th, 2019.
- Received agency approval for the RWMC SDA CAP design on June 28th, 2019 and began final processing of the design package for final submission.
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.

<table>
<thead>
<tr>
<th>Total Cumulative</th>
<th>Total Current Month</th>
</tr>
</thead>
<tbody>
<tr>
<td>approximately 256,273 lb of TVOC</td>
<td>approximately 81 lb of TVOC</td>
</tr>
<tr>
<td>approximately 142,982 lb of CCl₄</td>
<td>approximately 28 lb of CCl₄</td>
</tr>
</tbody>
</table>

The cumulative below represents the entire volume per unit since the initiation of operations in January 1996.

<table>
<thead>
<tr>
<th>Cumulative</th>
<th>Current Month</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit D</td>
<td></td>
</tr>
<tr>
<td>53,930 lb TVOC</td>
<td>33 lb TVOC</td>
</tr>
<tr>
<td>22,720 lb CCl₄</td>
<td>8 lb CCl₄</td>
</tr>
<tr>
<td>Unit E</td>
<td></td>
</tr>
<tr>
<td>73,858 lb TVOC</td>
<td>20 lb TVOC</td>
</tr>
<tr>
<td>42,930 lb CCl₄</td>
<td>8 lb CCl₄</td>
</tr>
<tr>
<td>Unit F</td>
<td></td>
</tr>
<tr>
<td>128,485 lb TVOC</td>
<td>28 lb TVOC</td>
</tr>
<tr>
<td>77,332 lb CCl₄</td>
<td>12 lb CCl₄</td>
</tr>
</tbody>
</table>

FFA/CO Documents:
- Transmitted the draft FY 2018 WAG 3 annual report on July 2nd, 2019.
- Transmitted the Part A NSI-26037, ANL-70 Debris/Burn Pit in Northwest Corner of the Materials Fuels Complex on June 27th, 2019.
- Transmitted the final FY 2019 WAG 2 annual report on July 16th, 2019.

Support Activities:
- Conducted routine operations at the NPTF, processed 290,745 gallons of water between July 17th and July 18th, 2019. The NPTF was shut down the remainder of the reporting period due to BEA work on the facility water lines.
- Completed replacement of the air handling unit for OCVZ Unit E on July 17th, 2019.
- Completed mowing and groundskeeping at the WAG 3 evaporation pond on July 10th, 2019.
- Completed a fire water system valve isolation at INTEC in support of the anthropogenic water sources investigation on July 10th, 2019.

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 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 treatment injections.
• Apply fog/seal coat over the Tank Farm Phase I asphalt.
• Submit WAG 3 quarterly report.
• Complete the annual check for the CPP-1792 lift station and CPP-1793 leak detection systems.
• Complete replacement of the air handling unit at OCVZ Unit D.
• Complete FY 2019 WAG 4 groundwater sampling.
• Continue Westbay well rehabilitation.
• Submit final FY 2018 IC and O&M report.
• Submit final NSI Part Bs for NSI-26019, NSI-26020, and NSI-26021.
• Perform field work for CPP-142.
• Issue final 100% design package for the SDA cap.

September
• 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.
• Submit final FY 2018 WAG 3 Annual Report.
• Complete WAG 3 evaporation pond sampling event.
• Complete WAG 3 semi-annual perched water level measurements and data downloads.
• Complete FY 2019 O&M site maintenance.
• Continue Westbay well rehabilitation.
• Complete FY 2019 WAG 4 vapor port sampling.

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 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 quarterly sampling.
• Perform 1st quarter FY 2020 Tank Farm remedy component inspection.
• Begin CERCLA Five Year Review.

Significant activities planned to occur in FY 2019:
• 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 2018 OU 1-07B Annual Report. Complete
• Complete the Annual Groundwater Monitoring Report for WAG 2. **Complete**
• Complete remediation of site CPP-142.
• Complete the FY 2018 OU 3-14 Operations and Maintenance Report.
• 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.
• Complete the annual groundwater monitoring report for WAG 7.
• Complete the annual soil moisture monitoring and reporting for WAG 7. **Complete**
• Complete the Westbay wells rehabilitation.
• 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 Part B determinations for sites PBF-39, TRA-83 and TRA-84.
• Complete the SDA cap design.