



Idaho Cleanup Project Overview

Connie Flohr, Manager
Idaho Cleanup Project

Nicole Badrov, Supervisor
CERCLA Cleanup

Joel Case, Assistant Manager
INTEC Programs

October 21, 2021



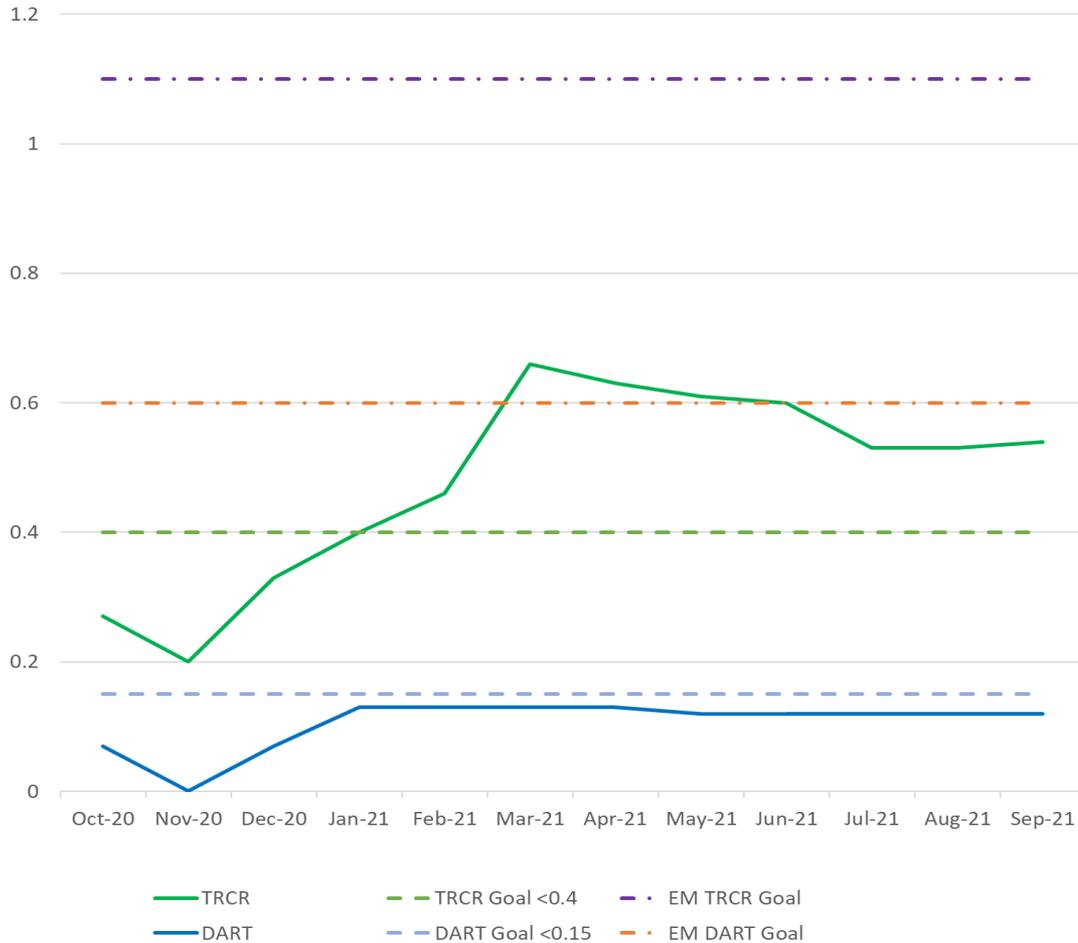
EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

Idaho Cleanup Project

Fluor Idaho Safety Performance

ICP Core Injury Rates



July 2021

- Two First Aid Cases
- No Recordable Injuries
- Four ORPS Reportable Events

August 2021

- Three First Aid Cases
- No Recordable Injuries
- Two ORPS Reportable Events

September 2021

- Four First Aid Cases
- One Recordable Injury
- Four ORPS Reportable Events



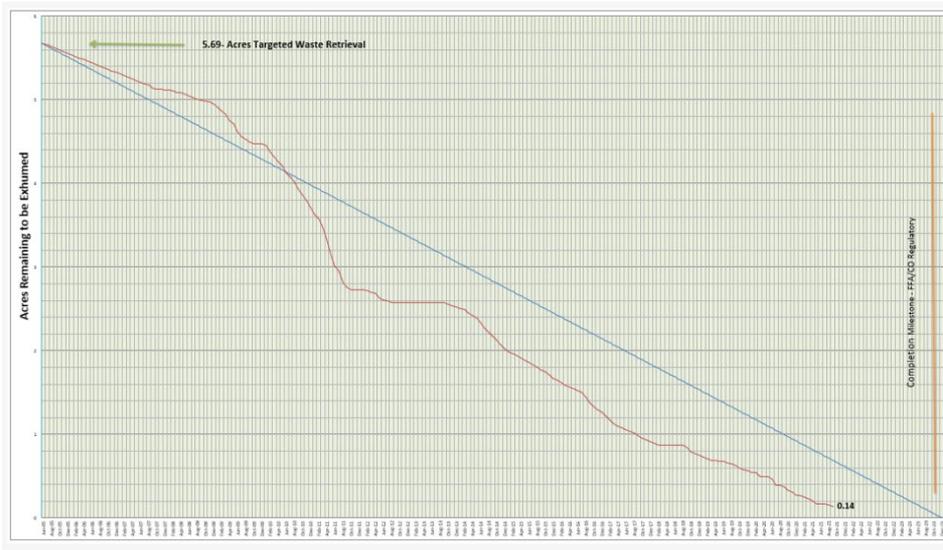
Waste Type	Origin	Volume Remaining	Amount Shipped	Ultimate Destination	Applicable Agreements
Buried Waste 	Site operations, Rocky Flats Plant, other DOE facilities	• 3,621.3 m ³ awaiting shipment	6,542.0 m ³	Waste Isolation Pilot Plant	FFA/CO (CERCLA), Agreement to Implement

WAG-7 Accomplishments

- ARP IX: 0.55 of 0.69 acres (79.7 %) have been exhumed (as of September 28, 2021)

Status

- ARP IX exhumation is ongoing
- Cap design is final and posted at <https://ar.icp.doe.gov>



ARP IX Exhumation



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

Idaho Cleanup Project

Balance of CERCLA Cleanup Activities

Accomplishments

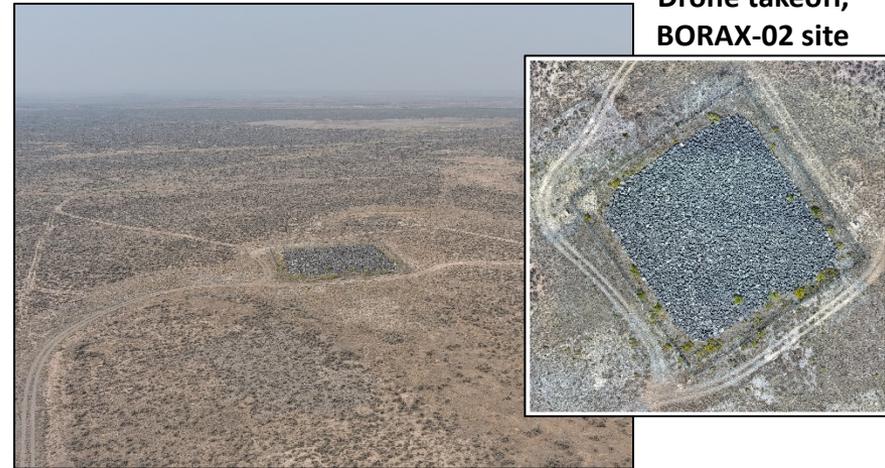
- Test Area North (TAN) Groundwater
 - In Situ Bioremediation Treatment Progress
- Idaho CERCLA Disposal Facility (ICDF)
 - Explanation of Significant Differences (ESD) to Record of Decision
 - Initial Siting and Design for new landfill cell
- Site-wide Activities
 - Operations and maintenance activities
 - Developing ICP drone capabilities
 - Ongoing Westbay Well Rehabilitation
- Deactivation and Decommissioning (D&D)
 - Working with NRF to prepare EE/CA and begin D&D work

Status

- TAN Groundwater
 - ISB and New Pump and Treat Facility (NPTF) treatment continues on track to meet Remedial Action Objectives by 2095
- INTEC/ICDF
 - Continue receiving waste from CERCLA remediation and D&D projects including NRF, INTEC and AMWTP
- Site-wide Activities
 - Continue routine groundwater monitoring, institutional controls and operations and maintenance



Drone takeoff,
BORAX-02 site



Swabbing
of USGS-
137A
Westbay
Well



Waste Type	Origin	Volume Remaining	Amount Shipped	Destination	Applicable Agreements
Transuranic and Mixed Low-Level Waste 	Site operations, Rocky Flats Plant, other DOE facilities	4,919 (CH-TRU) 235 (M/LLW)	45,852 (CH-TRU) 14,722 (M/LLW)	WIPP Licensed off-site disposal site	Idaho Settlement Agreement, Site Treatment Plan

Accomplishments

- 295m³ sludge treated
- 100 shipments to WIPP
- 69m³ M/LLW shipped offsite

Status

- Continue processing sludge waste
- Certify and ship CH TRU waste to WIPP
- Continue RCRA closure of retrieval enclosure
- Continue M/LLW shipments
- Continue RH processing and certification

Year	Planned WIPP Shipments
FY21	150
FY22	257
FY23	390
FY24	469
FY25	477
FY26	466
FY27	403
FY28	330
Totals	2942



Sludge processing in box line



Shipment to WIPP



Waste Type	Origin	Mass Remaining	Amount Shipped	Destination	Applicable Agreements
Spent Nuclear Fuel 	DOE, research and commercial reactors	243.57 Metric Tons Heavy Metal (EM-only)	153 TRIGA elements 0.03 MTHM (for reuse)	Disposition out of state	Idaho Settlement Agreement

Plans and Accomplishments

Wet to dry transfers	FY21 Actual/Plan	FY22 Plan
EBR-II	49/49	64
ATR	12/22	27

Peach Bottom Fuel	FY21 Actual/Plan	FY22 Plan
Inspections	5/5	15
Vault transfers	0/0	12

Status

- Primary focus remains on EBR II spent fuel transfers
- Equipment problems have impacted ATR wet to dry transfers
- Peach Bottom fuel Gen-1 to Gen-2 vault transfers to begin this fiscal year
- Aging management inspections completed



Peach Bottom equipment familiarization



Waste Type	Origin	Volume Remaining	Amount Shipped	Destination	Applicable Agreements
High-Level Waste 	Reprocessing of spent nuclear fuel	4,400 cubic meters	None	Disposition out of state	Idaho Settlement Agreement, Site Treatment Plan



Calcined Solids Storage Facilities (CSSF)

See separate calcine update



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

Idaho Cleanup Project

Waste Type	Origin	Volume Remaining	Amount Shipped	Destination	Applicable Agreements
Sodium-Bearing waste	De-Con of reprocessing facilities	~900,000 gallons	None	Disposition out of state	Idaho Settlement Agreement, Site Treatment Plan, Notice of Non-Compliance/Consent Order



Integrated Waste Treatment Unit

See separate IWTU update



EM Environmental Management

safety ❖ performance ❖ cleanup ❖ closure

Idaho Cleanup Project