

Air Force Installation & Mission Support Center

PFAS Update



PAUL W. FREDIN, PE, Col, USAF

Deputy Director, AFCEC/CZ

1 Mar 23

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**Unwell Water: DOD challenging
states on \$2 billion PFAS liability**

USA TODAY Network

**Toxic "forever
chemicals" found in
groundwater near more
U.S. military bases**

CBS News

*•Formidable legal
bar shields
military from PFAS
lawsuits*

•The Hill

**‘People are devastated:’ At hearing,
PFAS harms take center stage**

MLive

Air Force won't use new EPA levels in Wurtsmith PFAS cleanup

MLive

**Seymour Johnson Air Force Base
Contaminates the Neuse River and the
Goldsboro, North Carolina Region with
PFAS Military Poisons.**

**Military Poisoned by PFAS Chemicals,
No Cleanup Plan Yet**

The War Horse

**Intolerant of groundwater
contamination, NM sues Air Force
over PFAS pollution**

The NM Political Report

**At least 12 military bases contaminating
water supply with toxic PFAS**

The Guardian

States, military clash on cleanup of toxic chemicals

AP News



PFAS Focus Areas



- **Protect Human Health**
- **Focus on Communication and Collaboration**
- **Remediate PFAS Sites/Upgrade Infrastructure**



PFAS Strategic Roadmap – Water



EPA PFAS Strategic Roadmap

Drinking Water

Wastewater

Stormwater

NPDWR

Water
Quality
Standards

ELG

(industrial)

Biosolids standards

Water
Quality
Standards

Monitor MCL's

MCL

Permit limits

Pretreatment
Limit

Disposal

Permit /
SMP's

DAF Strategic Plan

DAF complies with the law on PFAS—action cannot be taken unless in response to a specific EPA regulation.

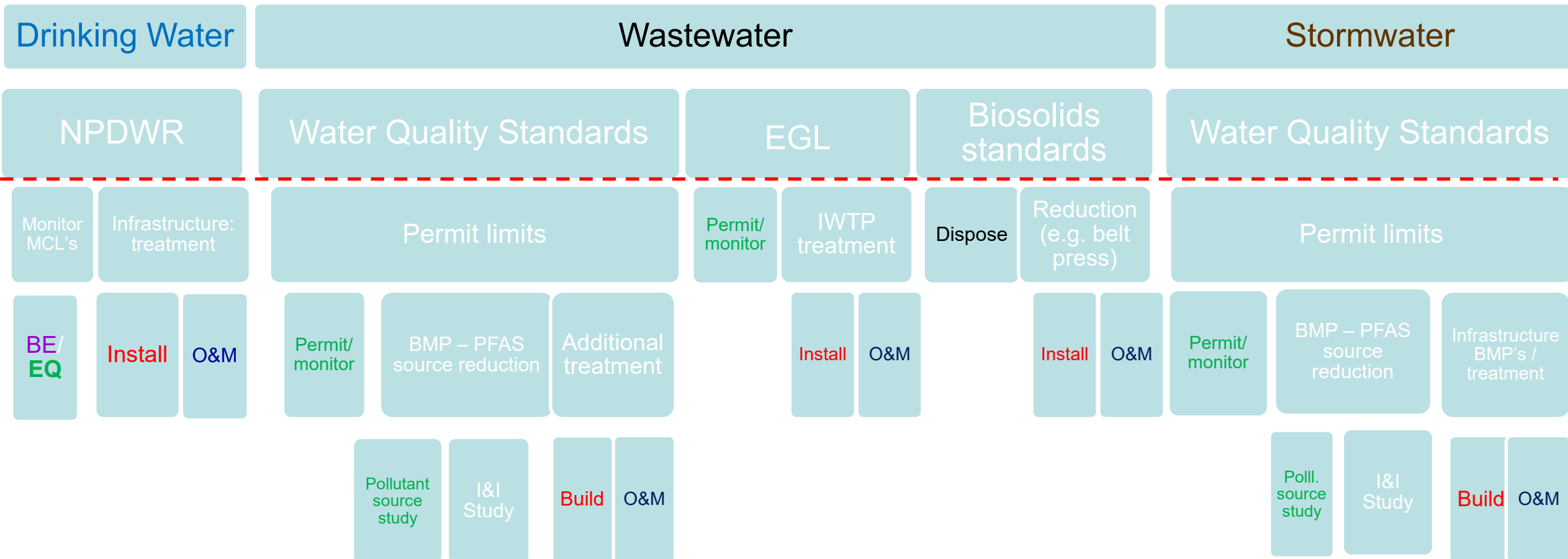
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PFAS Strategic Roadmap - Water



PFAS Strategic Roadmap

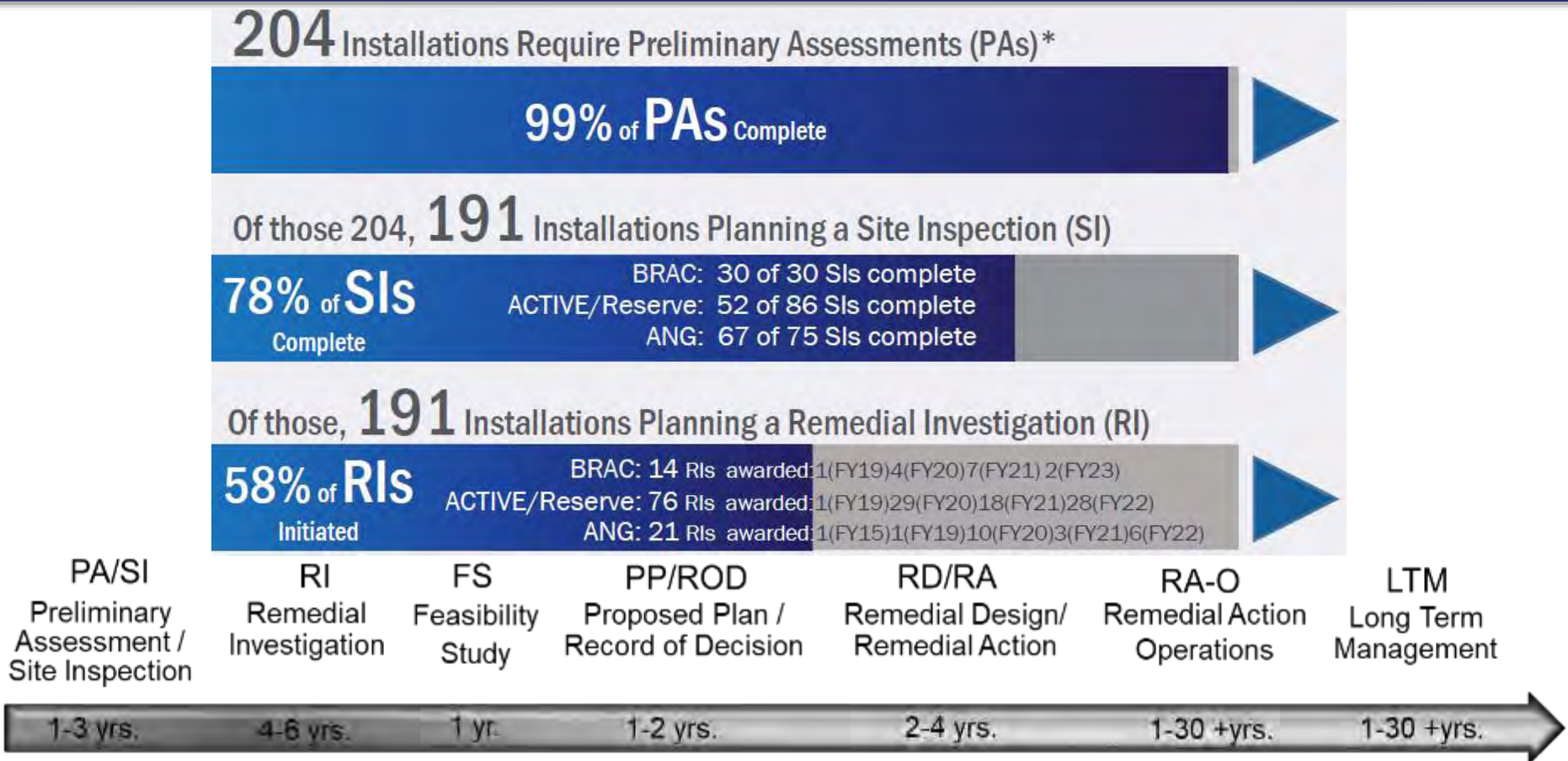


Management of PFAS will require significant long-term investments in FSRM and Facility Ops funding—Impacts are far reaching from the point of discharge in the environment.



DAF CERCLA Phase Status

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

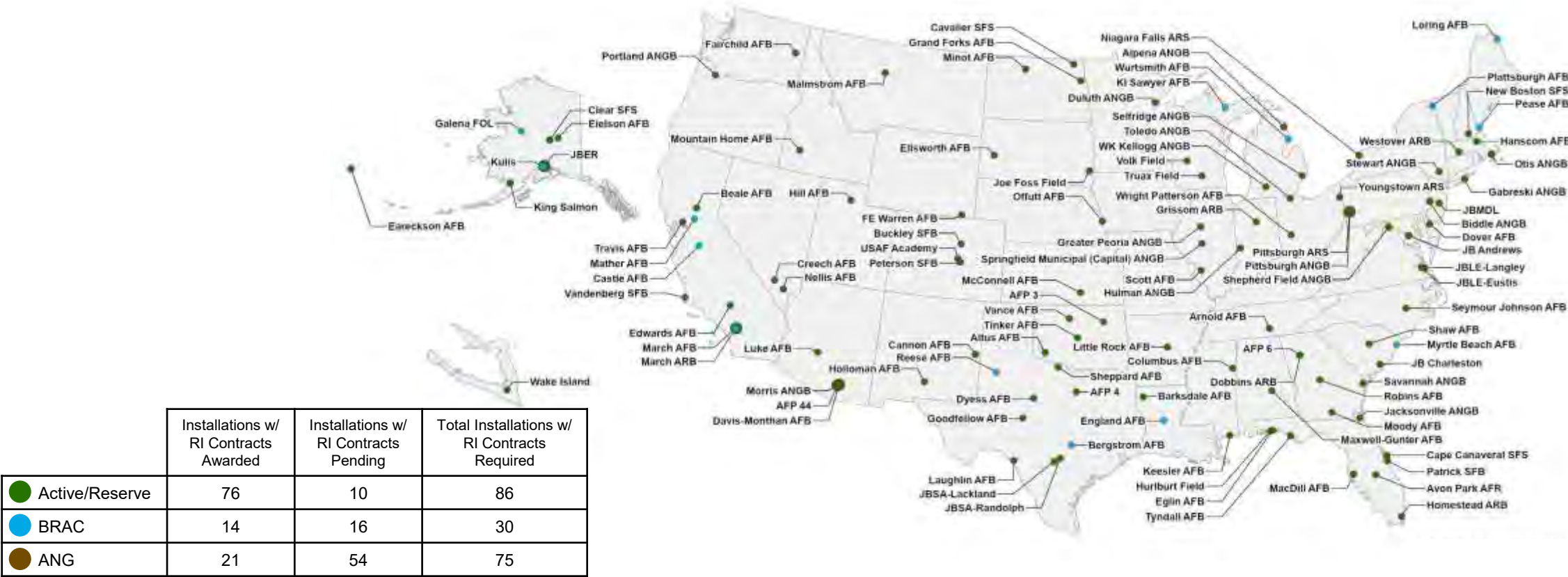


DAF complies with the law on PFAS—no one is drinking water with PFAS concentrations above the 2016 EPA Lifetime Health Advisories attributable to DAF installations.

*PA numbers reflect AFFF PAs and does not include the work being done under the non-AFFF contract.



PFAS Impacts Across Installations



•Alaska LRRS sites, Point Barrow, Fort Yukon, and Johnston Atoll roll up under JBER as one installation.

•Data as of 31 January 2023

Dealing with PFAS will get much more challenging with future legislation and EPA rulemaking on drinking water and wastewater standards.



Active/Reserve PFAS Program – Accelerating RIs



Initial RI Schedule & Components

FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31	FY32	FY33	FY34	FY35	FY36	FY37	FY38	FY39	FY40
Focused RI/FS (3)					FS																
	RI 10 Bases						FS														
		RI 10 Bases							FS												
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Accelerated RI Schedule & Components

FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30
RI 1 Base					FS						
	RI 29 Bases					FS					
		RI 18 Bases						FS			
			RI 20 Bases						FS		
				RI 17 Bases						FS	
					RI Add'l from PA/SIs						FS

•Accelerated schedule is contingent on continued PFAS funding plus ups

•FS- Feasibility Study, FY-Fiscal Year, PA- Preliminary Assessment, SI- Site Investigation, RI- Remedial Investigation



Mitigating PFAS Impacts on Military Construction



■ Assess Risk

- Engage CZ RPM early to evaluate current information known regarding PFAS impacts
- Characterize project site impacts during planning

■ Avoid – Locate project outside impact areas if feasible

■ Identify and Document Requirements

- Capture waste mgt impacts in Planning Charrette Report (PCR), Programming

■ Mitigate

- Coordinate with CZ to determine if interim remedial action feasible
- Accelerate identification of base-specific soil leachability levels to reduce action levels

■ Design - Incorporate considerations to minimize soil disturbance & dewatering in design

■ Construct – Waste management as critical WBS item pre- and post-award

■ Long Term – Partner w/ Agents on UFC, UFGS Updates; In-Situ Technology





Industry Impact and Innovation



- **What do we need from industry?**
 - **New and innovative drinking water treatment systems**
 - **New remediation technology, especially in situ systems**
 - **Solutions for wastewater and stormwater effluent limits**
 - **Methods of handling PFAS impacted construction soil**

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Environmental Operations Update



**Michelle Robey, GS-14, DAF
Program Manager, AFCEC/CZO**

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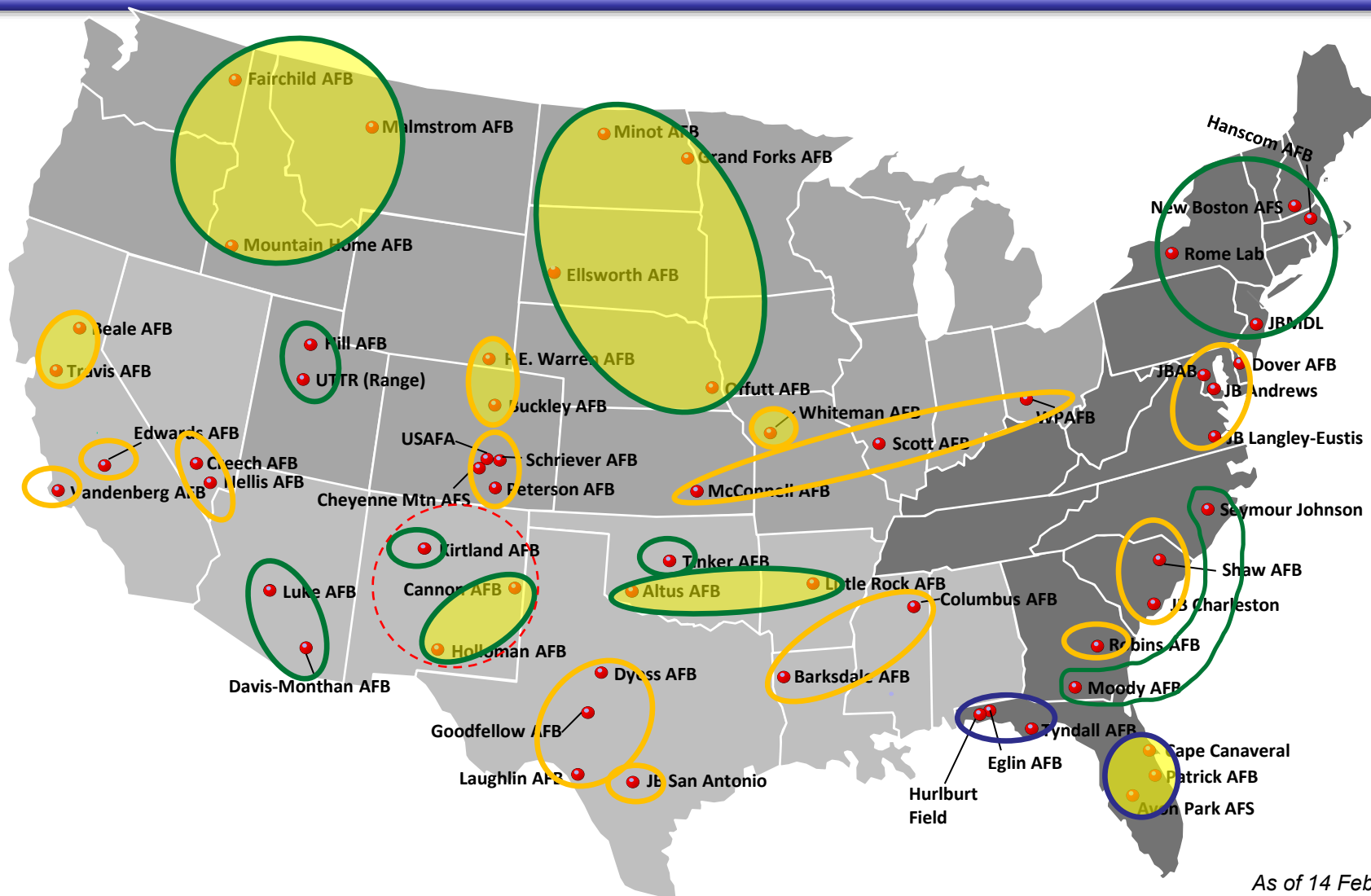
Fence-to-Fence Environmental Services



- Initiative that began in 2013
- Consolidates recurring, regulatory-driven environmental services requirements into a multiple year acquisition
- Allows the AF to:
 - Gain efficiencies through volume purchasing
 - Standardize environmental support
 - Reduce the number of contract actions required
 - Maximize competitive Small Business



F2F Acquisition Strategy



Legend

- F2F Installation
- F2F AOR
- 8(a)
- GSA
- USACE
- DOI
- Stretch Goals

As of 14 Feb 2023

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5-Year Proposed F2F Movement



	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28	FY29	FY30
East	- JBAB	- JBMDL	- Seymour Johnson/ Moody - Patrick	- Eglin ISS - JBLE ISS (+JBAB)*	- Robins BIEST - JBCHS/Shaw		- JBMDL - Patrick	- Seymour Johnson/ Moody	- Eglin ISS - JBLE ISS (+JBAB)	- Robins BIEST - JBCHS/Shaw
Midwest	- Buckley - Malmstrom / MtHome / Fairchild	- Hill BIEST	- Buckley/FEW* - Malmstrom / MtHome / Fairchild	- Ellsworth / Minot / Offutt / Grand Forks* - Whiteman - Scott / McConnell / WPAFB* - CO Springs		- Malmstrom / MtHome / Fairchild	- Hill BIEST - Whiteman	- Buckley/FEW - Ellsworth / Minot / Offutt / Grand Forks	- Scott / McConnell / WPAFB - CO Springs	
West	- Nellis/Creech			- Cannon / Holloman (+ Kirtland)* - Beale / Travis* - Little Rock / Altus - Tinker BIEST - Vandenberg - DGL - Barksdale / Columbus - DM/Luke - 611 th	- JBSA - Kirtland - Edwards	- Nellis	- Barksdale / Columbus - Little Rock / Altus	- DM/Luke - Beale / Travis - DGL	- Tinker BIEST - Vandenberg - Cannon / Holloman (+Kirtland?)	- JBSA - Kirtland - Edwards
Pacific					- Alaska				- 611 th	- Alaska
Europe	- Germany - Aviano - UK					- Germany - Aviano - UK				

Notes:

Green – USACE, Orange – GSA, Blue – DOI, Black – 764th ESS

asterisk (*) – requires consolidation memo

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Overseas F2F



■ Europe/AFIMSC Det 4

- 3 F2F contracts awarded in FY21 with 1 BY + 4 option periods
 - Germany, United Kingdom, Italy
- Acquisition Strategy: 764 ESS/PKB using ESC II IDIQ

■ Pacific/AFIMSC Det 2

- Challenges
 - Specialized resources
 - Geographical considerations
 - Contractual limitations
- Current strategy is F2F “lite” contracts that are consolidated by program

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Environmental Restoration Update



**Erin Simpson, GS-14, DAF
ORC Project Manager, AFCEC/CZR**

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What is an ORC?



- **Optimized Remediation Contract (ORC) replaces Performance-Based Contract**
- **AF sets Performance Objectives (PO)**
- **Contractor proposes approach to achieve the PO**
- **Payment is based on achievement of the PO**

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ORC Execution



■ 2020-2021

- 25 contracts encompassing 94 installations
- Firm Fixed-Price (FFP), Indefinite Delivery Indefinite Quantity (IDIQ)
- 6-10 year Period of Performance (PoP)
- 72% IDIQ/MATOC awards
- Contract awards: \$2.5M - \$50M

■ 2023

- 7 contracts encompassing 11 installations
- FFP contracts - unrestricted competition, Small Business (SB) set-asides including 8(a) awards
- 10-year PoPs for all FY23 ORCs

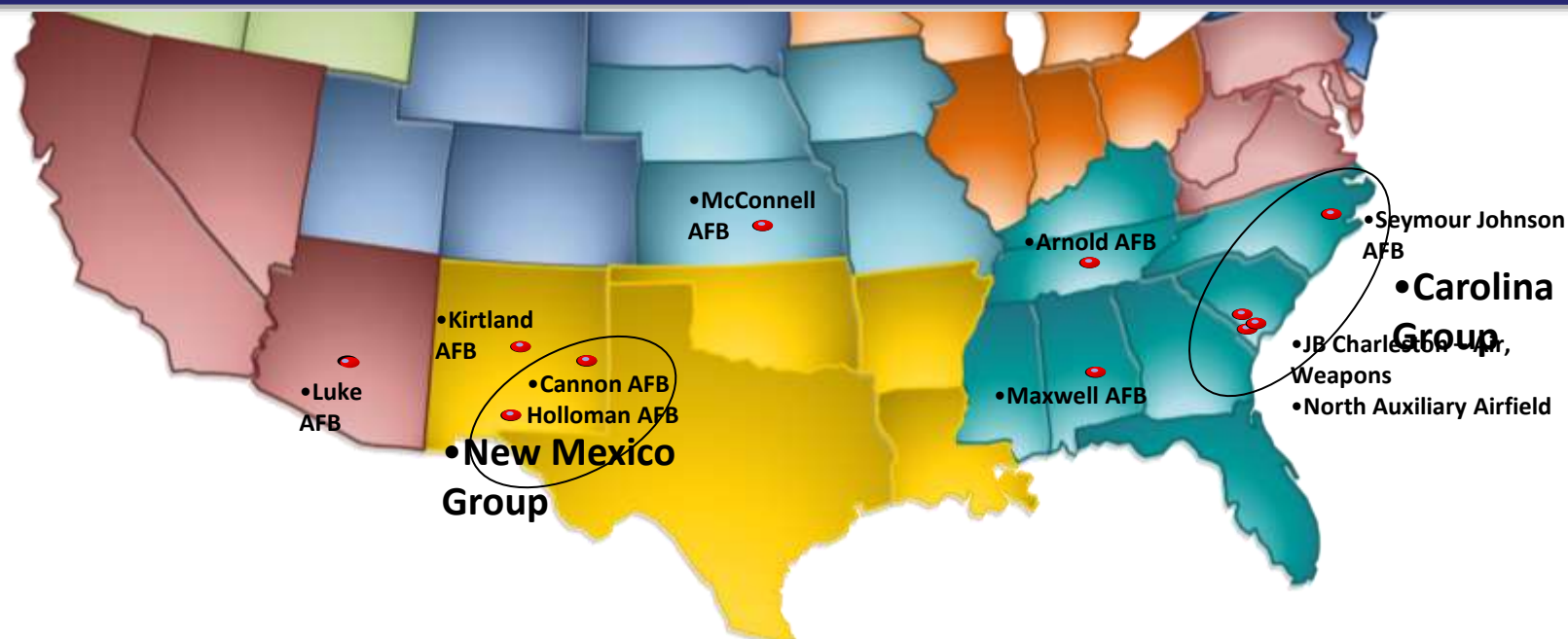
•MATOC – Multiple Award Task Order Contract

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FY23 ORC Groupings



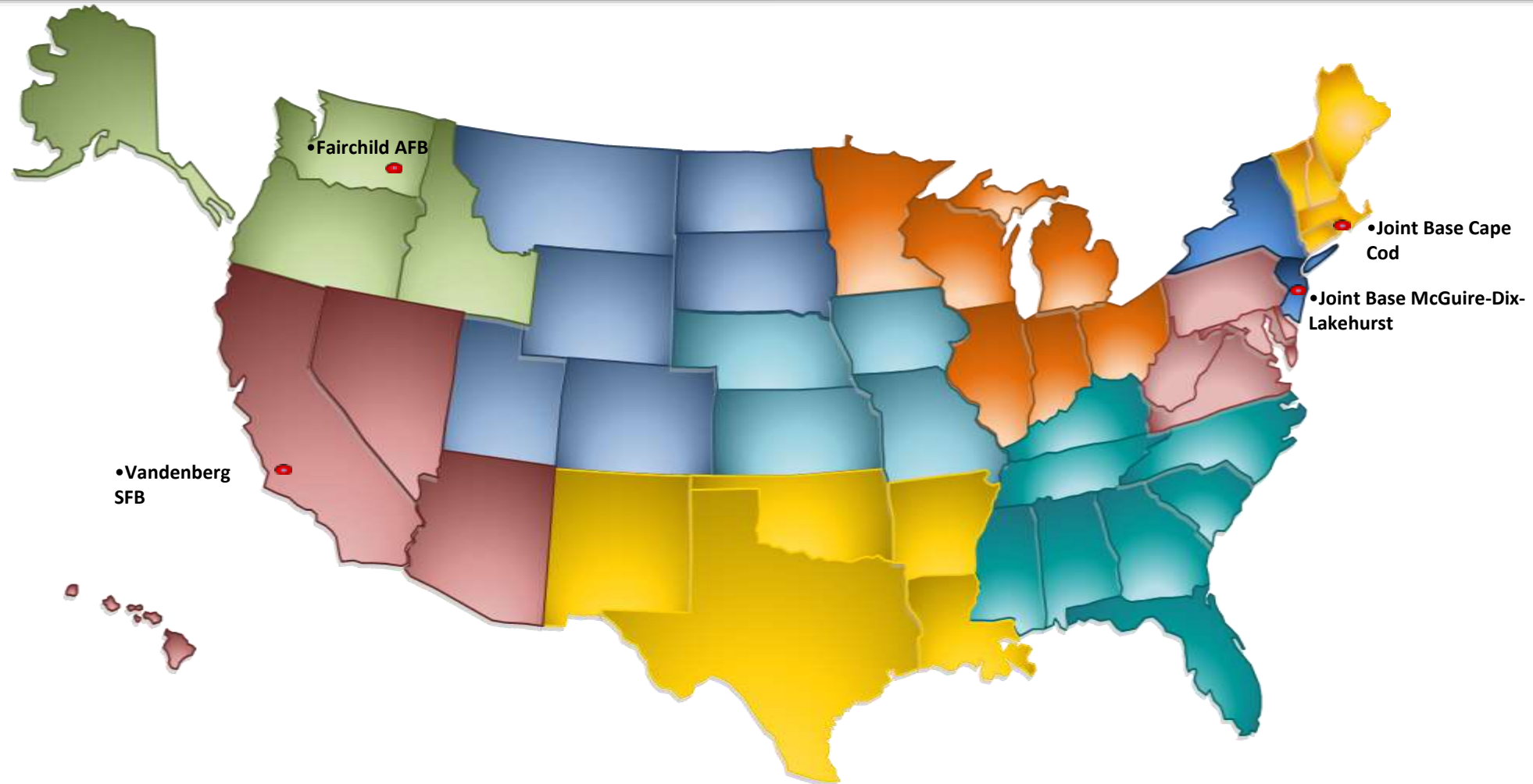
	FY23 ORC Group	Contract Agent	Award Date
1	Arnold AFB	772d ESS	5/26/2023
2	Maxwell AFB	772d ESS	5/26/2023
3	McConnell AFB	772d ESS	8/23/2023
4	New Mexico Group - Cannon AFB, Holloman AFB	772d ESS	7/24/2023
5	Carolina Group - JB Charleston-Air/Weapons, North Aux Airfield, Seymour Johnson AFB	USACE Savannah	7/21/2023
6	Kirtland AFB	USACE Albuquerque	8/22/2023
7	Luke AFB	USACE Los Angeles	6/30/2023

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Map of FY24 ORC Installations



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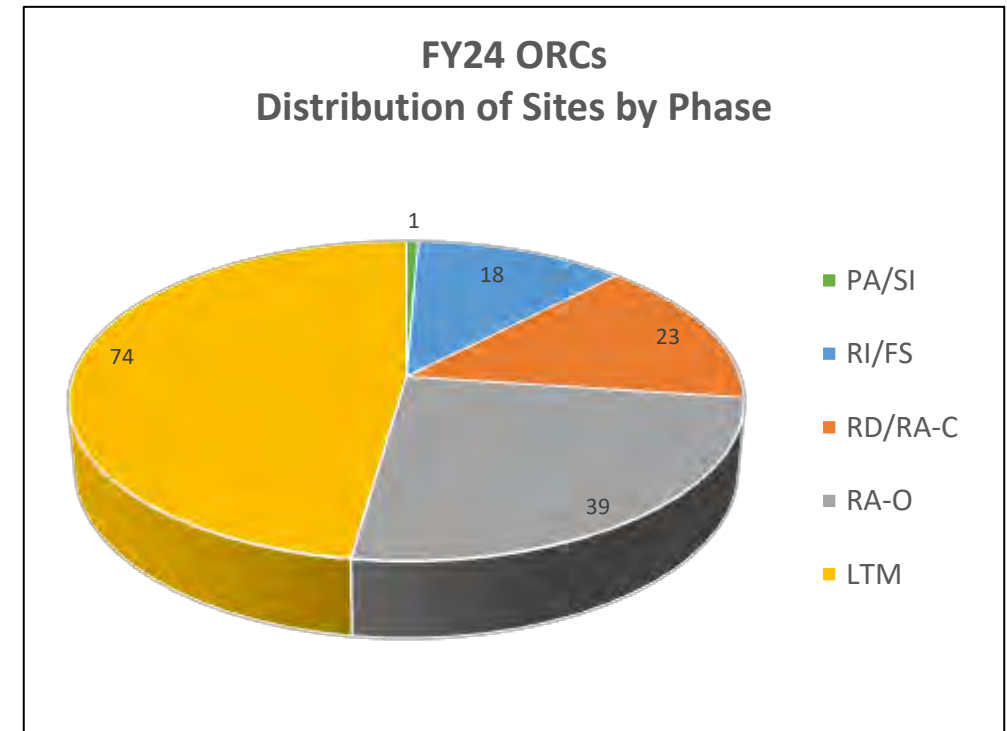
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FY24 ORC Sites by Phase



RPMO Region	FY24 ORC Groupings	Number of Sites
CZRW	Fairchild AFB	17
CZRE	JBMDL	55
CZRE	JBCC	11
CZRW	Vandenberg AFB	72
Total		155



•ORC – Optimized Remediation Contract, AFB – Air Force Base, PA/SI – Preliminary Assessment/Site Investigation, RI/FS – Remedial Investigation/Feasibility Study,

•RD/RA-C – Remedial Design/Remedial Action-Construction, RA-O – Remedial Action-Operation, LTM – Long Term Management, JBMDL – Joint Base McGuire-Dix-Lakehurst, JBCC – Joint Base Cape Cod

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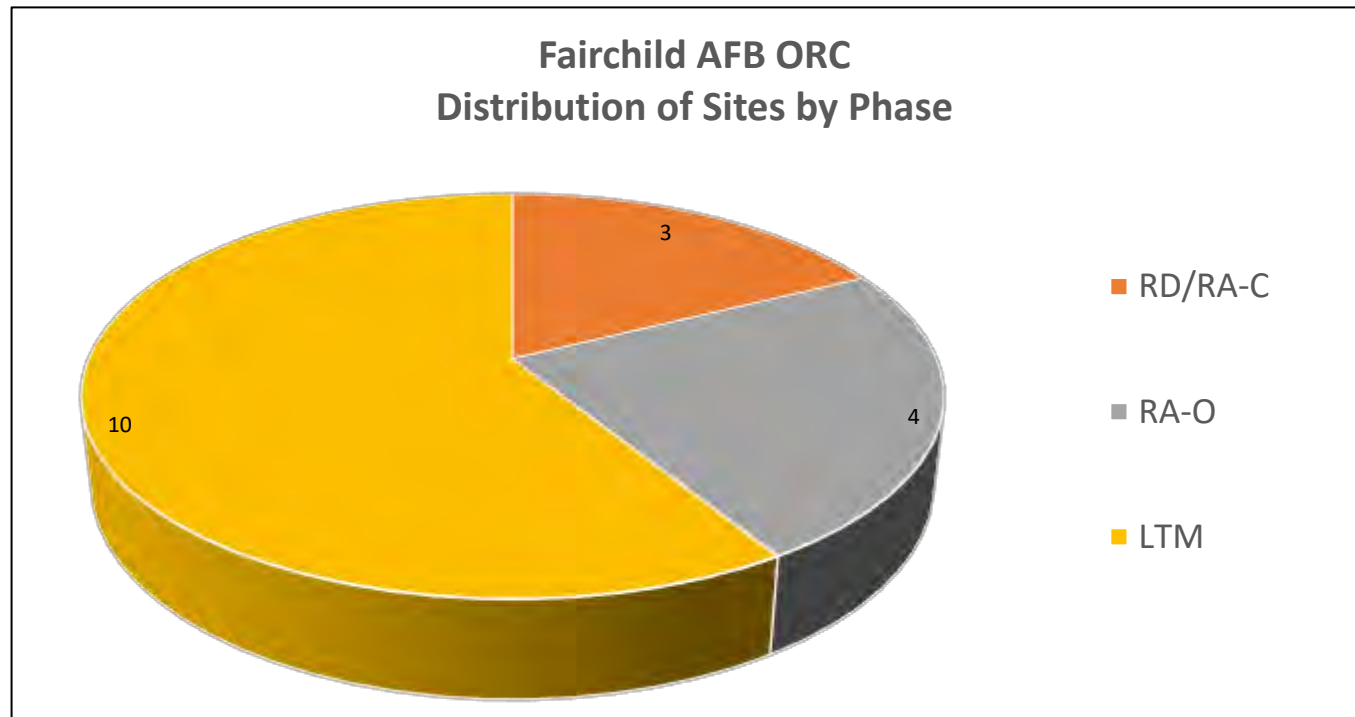
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Fairchild AFB ORC – Sites by Phase



RPMO Region	FY24 ORC Installations	Number of Sites	RI/FS	RD/RA-C	RA-O	LTM
CZRW	Fairchild AFB	17		3	4	10



- ORC – Optimized Remediation Contract, AFB – Air Force Base, PA/SI – Preliminary Assessment/Site Investigation, RI/FS – Remedial Investigation/Feasibility Study,
- RD/RA-C – Remedial Design/Remedial Action-Construction, RA-O – Remedial Action-Operation, LTM – Long Term Management

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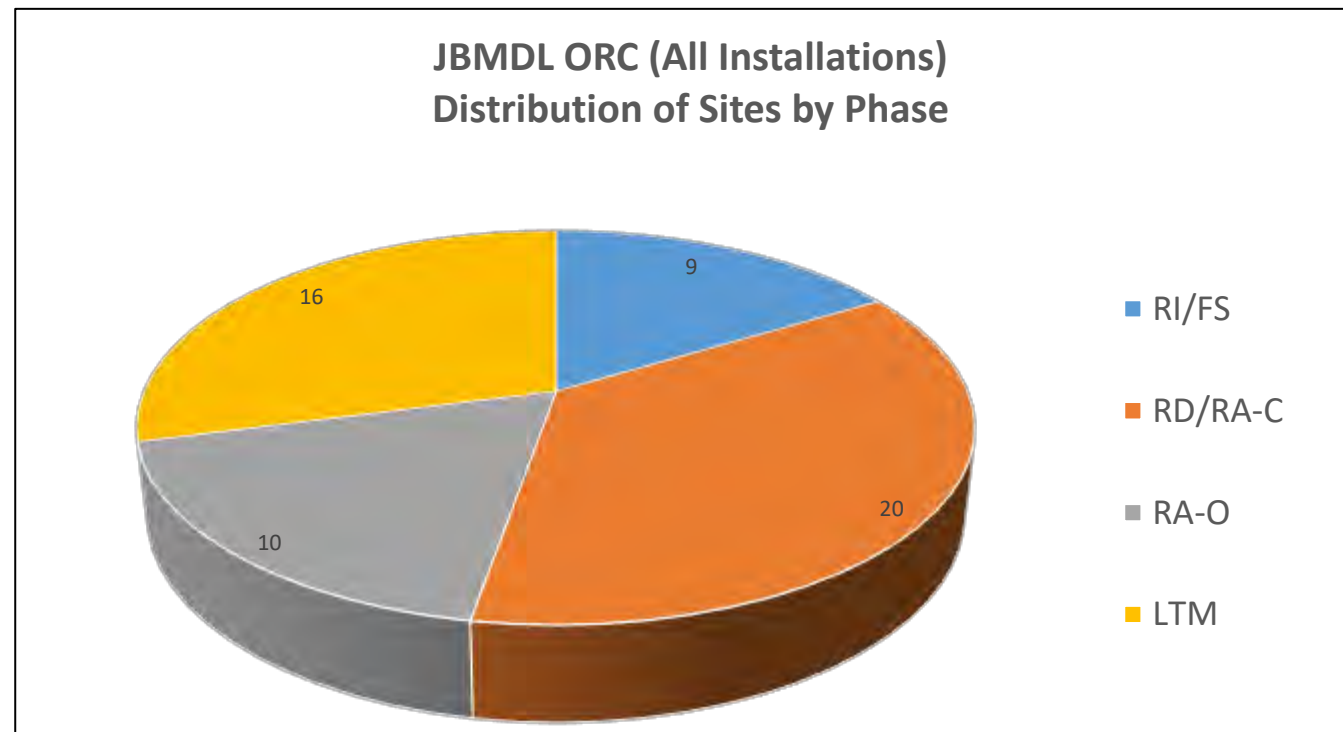
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JBMDL ORC – Sites by Phase



RPMO Region	FY24 ORC Installations	Number of Sites	RI/FS	RD/RA-C	RA-O	LTM
CZRE	JBMDL	55	9	20	10	16



- ORC – Optimized Remediation Contract, AFB – Air Force Base, PA/SI – Preliminary Assessment/Site Investigation, RI/FS – Remedial Investigation/Feasibility Study,
- RD/RA-C – Remedial Design/Remedial Action-Construction, RA-O – Remedial Action-Operation, LTM – Long Term Management

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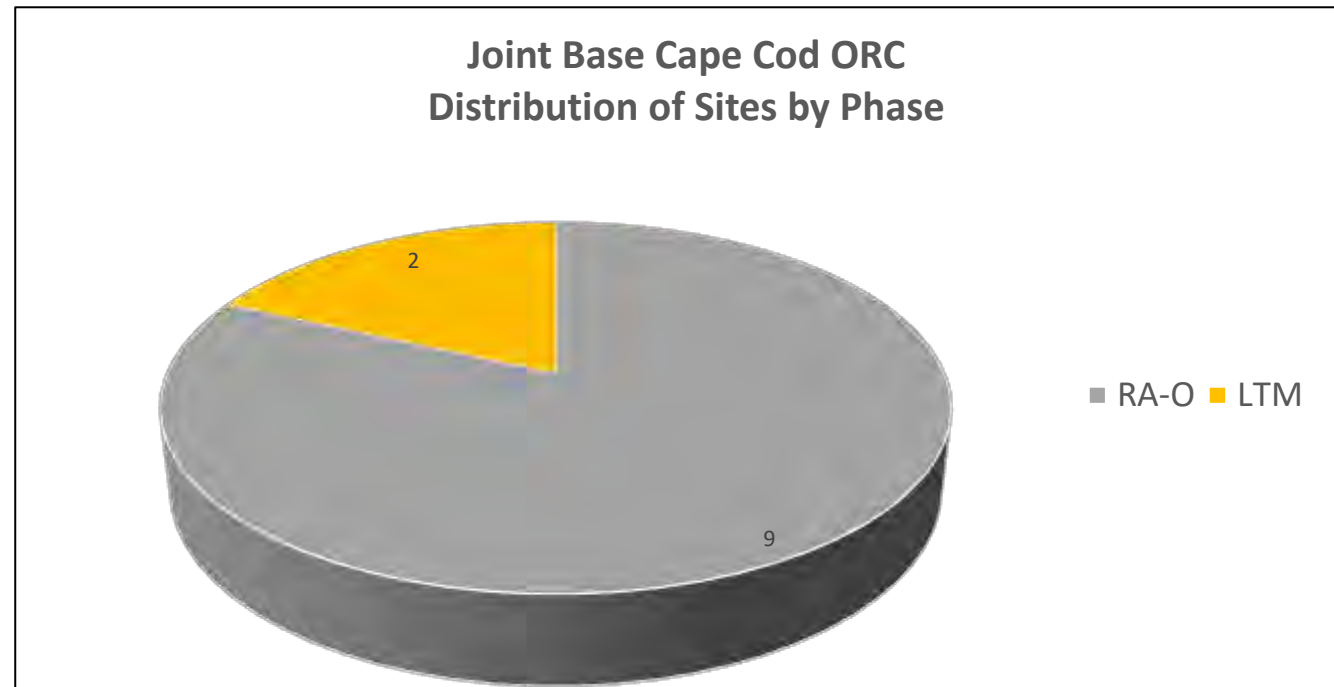
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JBCC ORC – Sites by Phase



RPMO Region	FY24 ORC Installations	Number of Sites	RI/FS	RD/RA-C	RA-O	LTM
CZRE	JBCC	11			9	2



•JBCC – Joint Base Cape Cod, ORC – Optimized Remediation Contract, PA/SI – Preliminary Assessment/Site Investigation, RI/FS – Remedial Investigation/Feasibility Study,

•RD/RA-C – Remedial Design/Remedial Action-Construction, RA-O – Remedial Action-Operations, LTM – Long Term Management

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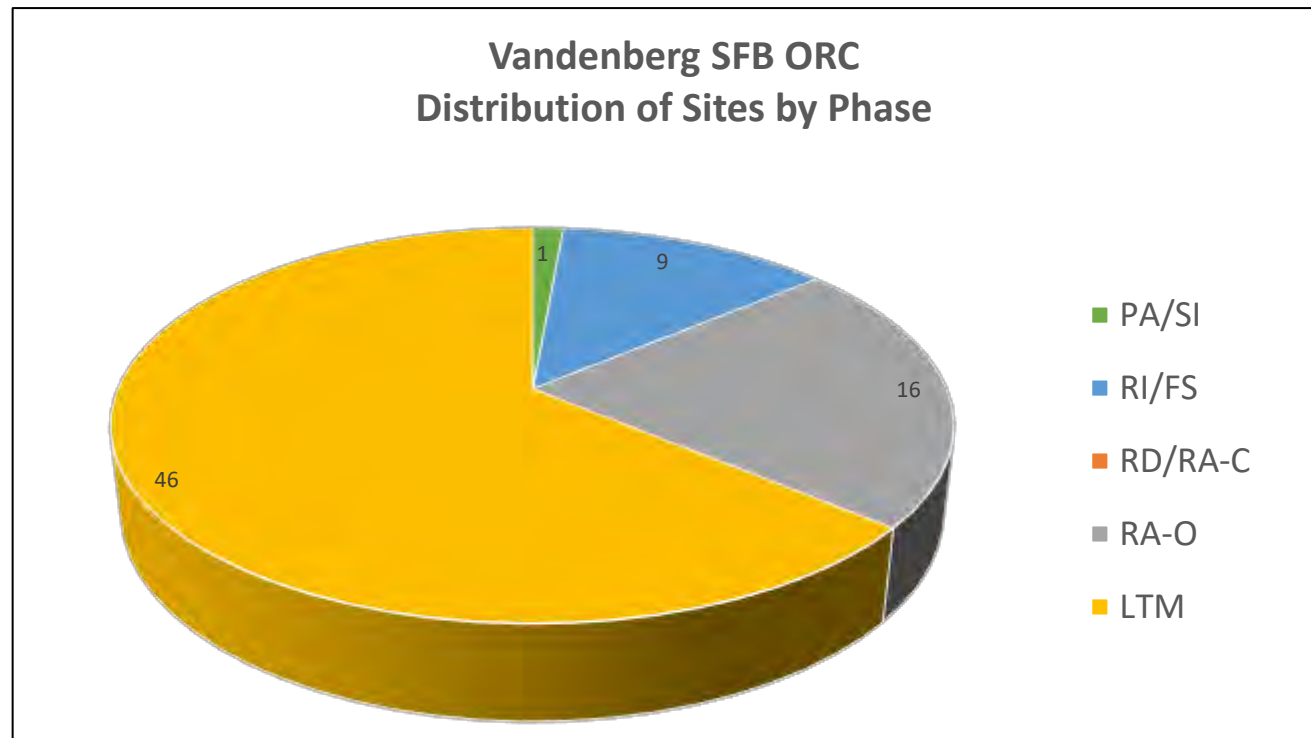
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Vandenberg AFB ORC – Sites by Phase



RPMO Region	FY24 ORC Installations	Number of Sites	PA/SI	RI/FS	RD/RA-C	RA-O	LTM
CZRW	Vandenberg AFB	72	1	9		16	46



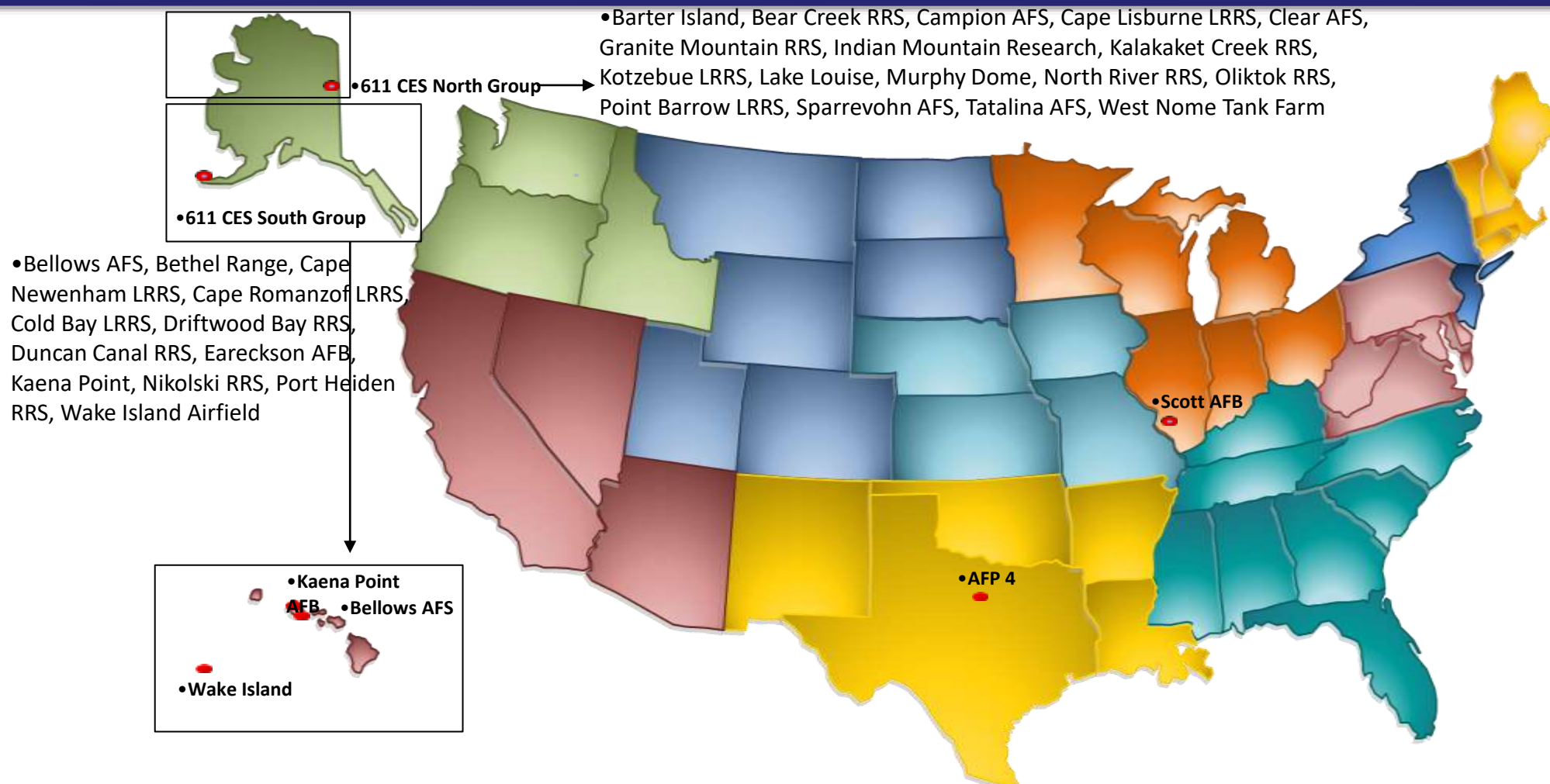
- AFB – Air Force Base, ORC – Optimized Remediation Contract, PA/SI – Preliminary Assessment/Site Investigation, RI/FS – Remedial Investigation/Feasibility Study,
- RD/RA-C – Remedial Design/Remedial Action-Construction, RA-O – Remedial Action-Operations, LTM – Long Term Management

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Map of FY25 ORC Installations



•AFB – Air Force Base, AFS – Air Force Station, CES – Civil Engineering Squadron, AFP – Air Force Plant, LRRS – Long Range Radar Site, RRS – Radio Relay Station

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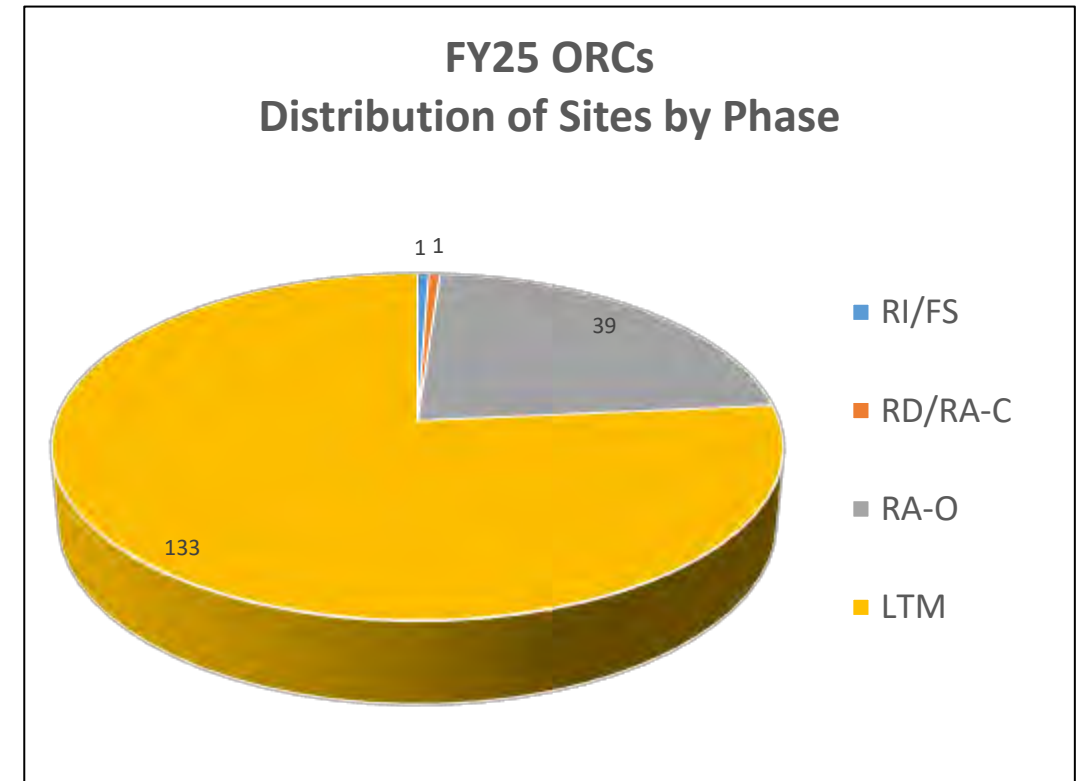
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FY25 ORC Sites by Phase



RPMO Region	FY25 ORC Groupings	Number of Sites
CZRE	AFP4	24
CZRE	Scott AFB	9
CZRW	611 CES North	61
CZRW	611 CES South	80
Total		174



ORC – Optimized Remediation Contract, AFB – Air Force Base, PA/SI – Preliminary Assessment/Site Investigation, RI/FS – Remedial Investigation/Feasibility Study, RD/RA-C – Remedial Design/Remedial Action-Construction, RA-O – Remedial Action-Operation, LTM – Long Term Management, JBMDL – Joint Base McGuire-Dix-Lakehurst, JBCC – Joint Base Cape Cod

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Questions?

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