





ONRT Authority

State Law

New Mexico Natural Resources Trustee Act [NMSA 1978, 75-7-1]

Trustee responsibilities include:

- (1) act on behalf of the public to protect New Mexico's natural resources by recovering damages for injury to, destruction of or loss of those resources;
- (2) investigate injury to, destruction of or loss of natural resources;
- (3) determine the amount and cause of injury to, destruction of or loss of natural resources;
- (4) determine the liability of any person for injury to, destruction of or loss of natural resources;
- (5) assess and collect damages for injury to, destruction of or loss of natural resources, including bringing legal actions and collecting the costs of assessing and collecting the damages;
- (6) expend money for the purposes set forth in the Natural Resources Trustee Act

Federal Law

- Comprehensive Environmental Response, Compensation, & Liability Act (CERCLA)
- Clean Water Act
- Oil Pollution Act



Following a Release of Hazardous Substances Responsibility is Shared:

NMED: Remediation

NMED Requires Responsible Party to:

- (1) Identify and characterize the release(s); and
- (2) Clean up contamination to protect public health and the environment.



ONRT: Restoration

ONRT uses the NRDAR Process to Require Responsible Party to:

- Restore injured natural resources to pre-release condition
- When that's not possible in a timely way, to replace or acquire the equivalent.





Natural Resource Damage Assessment and Restoration (NRDAR)

NRDAR is a process that allows ONRT to evaluate natural resource injuries caused by the release of hazardous substances into the environment.

Assessment

Evaluate and quantify natural resource injury

Determine type, scale, and cost of restoration needed

Negotiation

Engage with
Responsible
Parties to obtain
compensation for
natural resource
injuries

Restoration

With community input, plan and implement restoration actions

Compensate the public for losses

Settlements Since 2000 - \$43,341,226



- Gold King Mine Spill
 - US EPA Contractors \$2,000,000 (Dec 2022)
 - United States EPA \$10,000,000 (June 2022)
 - Kinross Gold: \$1,000,000 (Jan 2021)
- Ft Wingate Army Depot/DOD \$1,451,069 (March 2022)
- Fronk Oil/Cimarron River: \$150,000 (Dec 2020)
- Freeport-McMoRan Groundwater: Chino, Cobre, and Tyrone Mines (\$12,794,308)
- Freeport-McMoRan Wildlife and Wildlife Habitat: Chino, Cobre, and Tyrone Mines (\$5,500,000)
- AT&SF: Albuquerque's South Valley Tie Treater Facility (\$989,417)
- South Valley Superfund Site: Various Parties in Albuquerque's South Valley (\$4,857,548)
- Sparton Technology: Albuquerque Facility (\$1,000,000)
- SOHIO Western Mining L-Bar: Tailings Facility near Moquino, (\$29,830)
- AT&SF: Clovis Rail Yard (\$404,456)
- Van Waters & Rogers: Albuquerque's South Valley Facility (\$135,000)
- ASARCO (Five Facilities): Blackhawk Mine near Hanover, (\$1,029,598)
- Chevron Moly Mine: Questa, (\$4,000,000)

Fort Wingate Restoration \$1,451,069

- March 2022 Co-Trustees settled with the U.S. Army for \$1,437,150 for natural resource injuries caused by releases of hazardous substances
 - Navajo Nation
 - Zuni Tribe
 - ONRT
- February 2024 Final Restoration Plan
 - Forest Restoration and Fuelwood Production
 - Bluehead Sucker Habitat Conservation
- Court has approved release of funds





Gold King Mine Restoration \$13 million

- City of Aztec, North Main Wastewater Management Infrastructure (\$480,000)
- City of Aztec, Rehabilitation of Raw Water Reservoir 1 (\$950,000)
- City of Farmington, Whitewater Wave and Irrigation Diversion Dam at Farmington Gateway Park (\$2,000,000)
- City of Farmington, Festival and Farmer's Market Pavilion at Gateway Park - \$300,000
- Navajo Nation Department of Fish and Wildlife, Nenahnezad Chapter San Juan River Boat Ramp (\$65,575)
- NM Interstate Stream Commission, San Juan River Water Lease Agreement with Jicarilla Nation (\$1,803,000)
- New Mexico State Parks Division, Aquatic Invasive Species Station on San Juan River Quality Waters (\$205,226)

- San Juan County, Cedar Hill Boat Ramp on the Animas River \$160,000 (complete)
- San Juan County, Water and Wastewater Improvements for the Totah Subdivision (\$1,000,000) June 2024
- San Juan County, San Juan River Public Boat Ramps and Park Improvements (\$681,440)
- San Juan County, San Juan County Extension Service Office Building (\$2,300,000)
- San Juan Soil and Water Conservation District, Irrigation Ditch Diversion Project (\$1,616,600)
- San Juan Soil and Water Conservation District - San Juan Valley Soil Health Restoration Project - \$280,000
- Agricultural Irrigation System Upgrade Project - Tse Daa Kaan (Hogback) Navajo Community. \$250,000

THURSDAY, AIRE B. 2023 | DAILY-THUS LOSA

Officials mark opening of boat ramp funded by mine spill lawsuit funds

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thy eaflet. That delay hardly desired the six of

"A new boat ramp opening in Cedar Hill on the Animas River allows our community and the river boating public to enjoy a larger piece of the river with a safe boat ramp that provides easy access to both the river upstream and downstream going to Aztec," said. "For a small business like mine, this boat ramp provides more options for customers' outdoor recreation and allows us to increase the number of people that can get on the river safely."

Cody Dudgeon, owner of Desert River Guides in Farmington

'A tremendous impact on the people of San Juan County'



Final approval issued for projects awarded mine spill

settlement money

Endbarrachers - a series of inchess. bengand to offeet make of the impacts of the 2023 toold stag below upil on outboard New Montes took unaffeet step toward becoming a mality on May If when state officials assumed that

The New Mexico Office of the Natural Incorporar Traphic published the final Incomment spellered have \$11 million or covered by the free Mexico Environ-ment Department from the U.S. Con-countered Protection Agency, USA contoy that become will be spend on the pass. I make it fromton, and one of the only designed to help the region secures. Intentions of the instends the st courte effects of the building that was a spained the USs and its contract

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Married Start Statistics, the sail

"Water is life. The projects funded by settlement money from the EPA will serve to start to heal the wounds left in our community from the Gold King Mine Spill ... These investments into improving quality and recreation opportunities will pay dividends in securing the future of safe water for drinking, agriculture, and quality of life for years to come."

ple affected by the spill for the brown they and fixed to extent way. The

process to actions that good, "but this is an ex-

Steve Lanier, San Juan Co Commission Chairman

TUESDAY, AINE 13, 2023 | DAILY-TIMES.COM

'The new facility will give us endless possibilities'



note Hookins Buers of New Mexico State University's San Juan County Extension Office displays a visa occur regardantion's Growing Forward Farm in Agtec, sett (ACTER, NO, THE GALLY TIME)

New building will allow County Extension Office plenty of room to grow

Familiagnor Daily Torons USA TODAY NETWORK - NEW MEXICO

AZTEC - Aside from its hallways, there is scarcely a square foot of space at the San Juan County Extension Office of Byers New Mexico State University that isn't filled with office supplies, files, electronics and other equipment that help the staff members do their job of adapting

That's as it should be, says Bonnie topkins flyers, the county program director. The NMSU Compension Enteresion fervice has a presence in all 33 counties in the state, and most of its offices are mil tucked away in the basement of a county Me courthouse or some other out-of-the-bob way space where extension agents go

'Our job in extension is we have," Byers said. "We even have workshops in community contors and chapter bouses."

But the profile of the San Juan County Extension Office will increase considerably in approximately two years when the staff moves into a new home being funded substantially by a \$0.3 million months for the architectural and civil grant awarded to the county by the New

ment. Colorado, when millions of gal-

The IL250-square-foot project our to County Manager Mike Stark, wh match of \$350,000 while other leaves softlement money will be used to cover sity, to use the facilities new building have been drawn up for worth of Astor Maristrate Court the Law Offices of the Public Defender.

Stark said it will take four to sit

"Our commission absolutely is committed to agriculture as a key part of our economy and a key part of our quality of life here. ... (The new Extension Service building) will pay dividends for many years to come and enhance local food production here."

Mike Stark, San Juan County Manager

Leveraging ONRT funds

ABCWUA

- ▶ \$ 556,000 ONRT
- ▶ \$8.4 other funds

Water authority gets funds for restoration work

South Valley project should make section of the bosque a better location for wildlife

BY CATHY COOK

JOURNAL STAFF WRITER

Native cottonwoods and invasive kochia weeds grow nearby. Porcupines can be found nosing around, and signs of beavers building homes can be seen along the Rio Grande where the city of Albuquerque's treated wastewater is released into the river.

Now, a project to make the spot more inviting for people and a better habitat for wildlife just landed the remaining funding it needs.

The Albuquerque Bernalillo County Water Utility Authority releases 55 million gallons of water per day into the Rio Grande at the outfall in the South Valley. The water authority plans to make the spot more welcoming, including for endangered species such as the silvery minnow.

The project just secured a \$3 million WaterSMART Aquatic Ecosys-



COURTESY OF DIANE AGNEW

A rendering of the planned outflow restoration project, which would restore habitat in the bosque with overbank flooding.

tem Restoration Project grant from the federal Bureau of Reclamation.

The total cost for planning, permitting, design and construction is estimated at \$7.9 million but could change based on actual costs once building begins.

With the final piece of funding

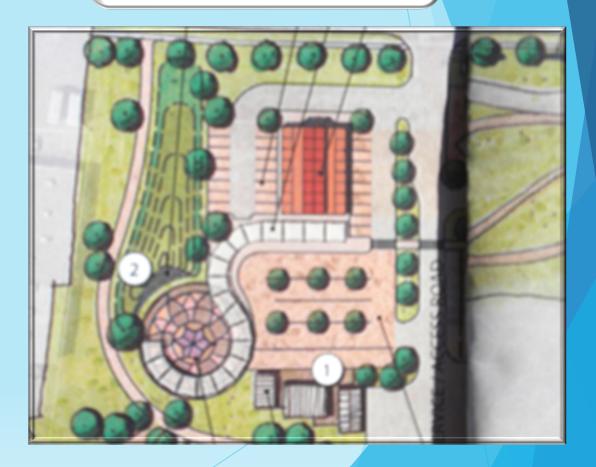
secured, the water authority can put the project out for bids, and construction should start August 2024. The work will likely be completed by spring 2025.

"A lot of the work that we do is invis-

See RESTORATION >> A4

Farmington Gateway Project

- ▶ \$300,000 ONRT
- ▶ \$1.98 m other funds



Current and Potential Natural Resource Damage Assessments





- Los Alamos National Laboratory
- NASA White Sands Test Facility
- Rio Algom Quivira Mill and Mine Sites



- Potential New Cases
 - 1. Cannon Air Force Base PFAS (Clovis)
 - 2. Holloman Air Force Base PFAS (Alamogordo)
 - 3. Grants Mineral District Legacy Uranium Mine and mill sites.

E WE EXPOSED TO PFAS?

large number of important chemicals that can be used in some food packaging and can make things n-resistant. They are also used in firefighting foams and in a wide range of manufacturing practices. ome of these substances don't break down over time. That means they build up in the environment

can be a source of exposure in communities where these chemicals have contaminated water supplies. tion is typically localized and associated with a specific facility, for example,

facility where PFAS were produced or used to manufacture other products, or ere firefighting foam was used such as oil refineries, airfields or other training facilities for firefighters

rned about the possibility of PFAS in your drinking water, contact your local water supplier and ask for n about PFAS.



REPELLENT



FIREFIGHTING FOAMS



USES

FFECTS

e that exposure to PFAS can lead to adverse health outcomes in humans. If humans or animals or drinking food or water than contain PFAS), the PFAS are absorbed and can accumulate in t human body for long periods of time. In some cases, the level of PFAS in the body can incre ole can suffer from adverse health effects.

that high concentrations of PFOA and PFOS can cause reproductive and developmental, live cal effects in laboratory animals. Both chemicals have caused tumors in animal studies. Th gs from human studies are increased cholesterol levels among exposed populations, with r

- infant birth weights
- •adverse effects on the immune system
- cancer (for PFOA)
- thyroid hormone effects (for PFOS)

PFAS Cases

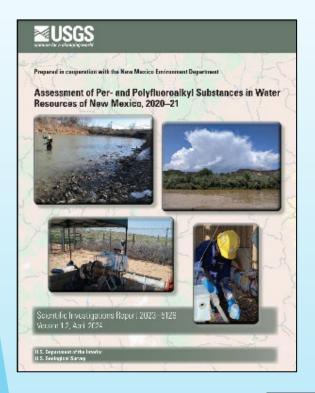
In April 2024, EPA finalized a critical rule to designate **PFOA** and PFOS as hazardous substances under CERCLA

- perfluorooctanoic acid (PFOA)
- Perfluorooctanesulfonic acid (PFOS)

PFAS sites in New Mexico currently under investigation by **ONRT**

- Cannon AFB
- Holloman AFB
- LANL

PFAS in NM Water USGS 2024 Assessment

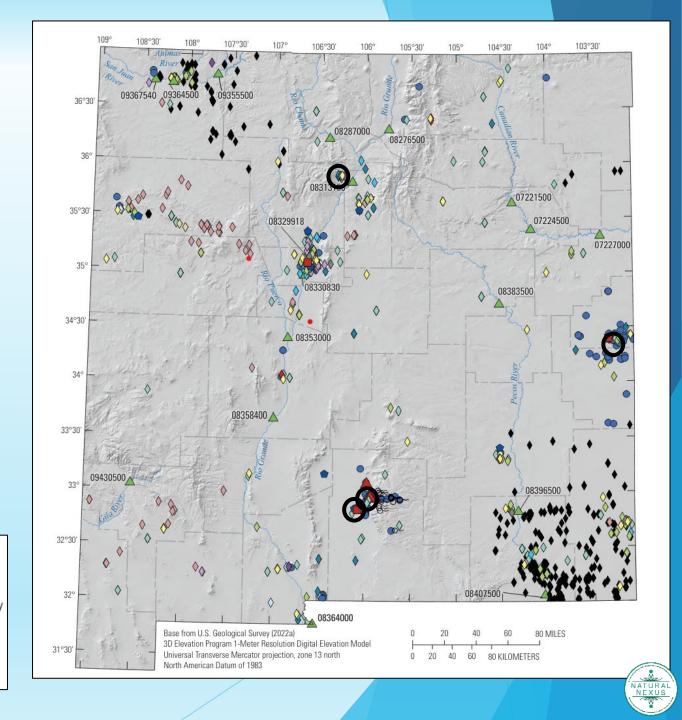


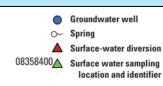
- Paints, coatings, plastics and resins
- Paper mills and products and printing
- Textiles and leather
- Waste management
- Oil and gas
- Federal agency location with known or suspected PFAS detections (U.S. Environmental Protection Agency [EPA], 2022)
- Calls reporting Aqueous Film Forming Foam usage (EPA, 2022)

Facilities that may use PFAS (EPA, 2022)

- Airports
- Cement manufacturing
- Chemical and cleaning product manufacturing
- Consumer products
- Electronics industry

- Furniture and carpet
- ♦ Glass products
- Metal coating and machinery manufacturing
- Mining and refining
- National defense



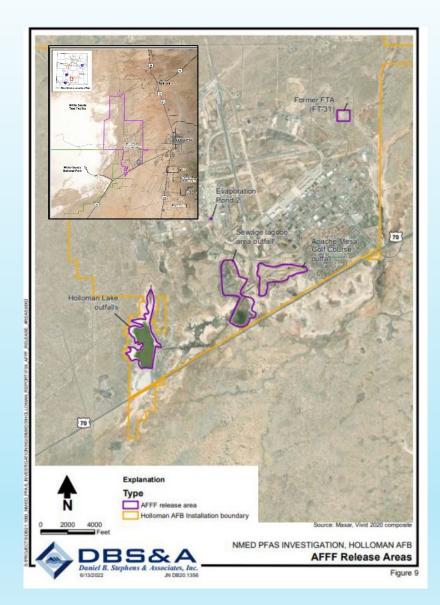


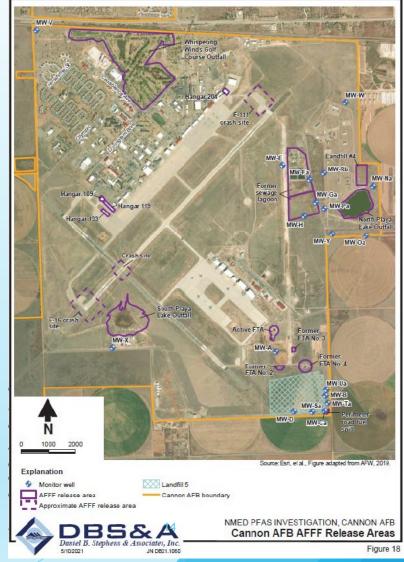
PFAS Assessments -Releases at Cannon AFB and Holloman AFB

- PFOS
- PFOA
- PFHxS
- PFBS
- PFBA
- Perfluoropentanesulfonic acid (PFPeS)
- Perfluoropentanoic acid (PFPeA)
- PFHxA
- Perfluoroheptanesulfonic acid (PFHpS)
- Perfluoroheptanoic acid (PFHpA)
- PFNA
- PFDA
- Perfluoroundecanoic acid (PFUnA)
- Perfluorododecanoic acid (PFDoA)
- Perfluorotridecanoic acid (PFTrDA)
- Perfluorotetradecanoic acid (PFTeDA)
- 4:2 Fluorotelomer (4:2 FTS)
- 6:2 Fluorotelomer (6:2 FTS)
- 8:2 Fluorotelomer (8:2 FTS)
- Perfluorooctanesulfonamide (PFOSA)
- N-Ethyl

perfluorooctanesulfonamidoacetic acid (NETFOSAA)

 N-Methyl perfluorooctanesulfonamidoacetic acid (NMEFOSAA)





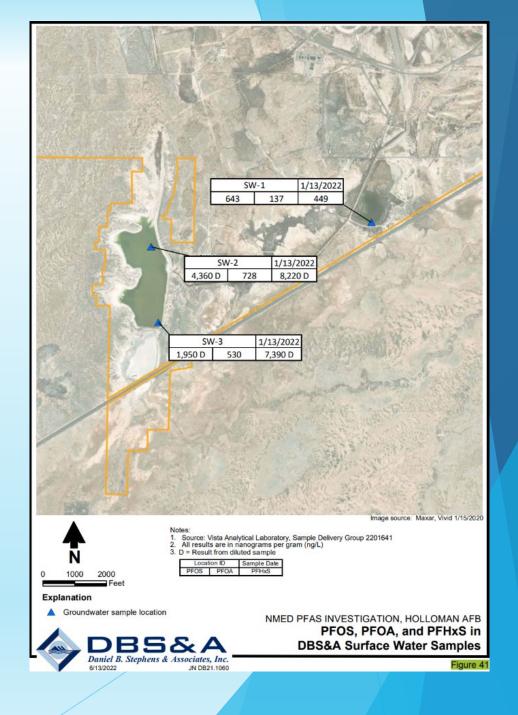
PFAS Holloman AFB - Holloman Lake



- Holloman Lake is an ecologically important water source in the Tularosa Basin
- Exposure to high concentrations of PFAS in surface water has resulted in elevated tissue concentrations in wildlife, which has been measured in:
 - Bird muscle, liver
 - Mammal liver, blood
 - Plants



"Holloman Lake is the largest and most ecologically significant water source in the Tularosa Basin (16,800 km2)"



PFAS Biological injury - Holloman Lake

An injury to a biological resource has resulted from the discharge of oil or release of a hazardous substance if concentration of the substance is sufficient to ...

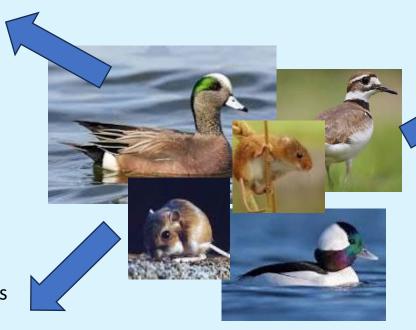
Edible portions of organisms are unsafe for human consumption

"...Exceed action or tolerance levels established under section 402 of the Food, Drug and Cosmetic Act, 21 U.S.C. 342, in edible portions of organisms"

[43 CFR § 11.62(f)(1)(ii)]

Advisories

"...Exceed levels for which an appropriate state health agency has issued directives to limit or ban consumption of such organism" [43 CFR § 11.62(f)(1)(iii)]



Reduced reproduction; adverse effects to other biota via their diet

"...Cause the biological resource or its offspring to have undergone at least one of the following adverse changes in viability: death, disease, behavioral abnormalities, cancer, genetic mutations, physiological malfunctions (including malfunctions in reproduction), or physical deformations"

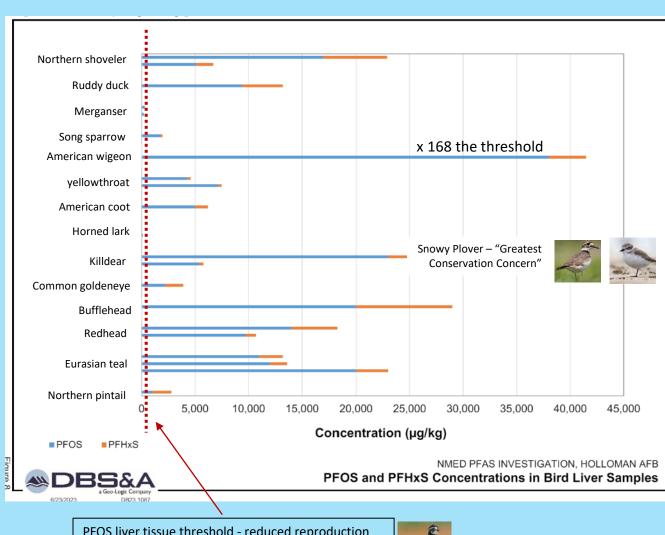
[43 CFR § 11.62(f)(1)(ii)]

Surface water injury:

Concentrations and duration of substances sufficient to have caused injury as defined in paragraphs (c), (d), (e), or (f) of this section to ground water, air, geologic, or biological resources, when exposed to surface water, suspended sediments, or bed, bank, or shoreline sediments" [43 CFR § 11.62(b)(1)(v)]

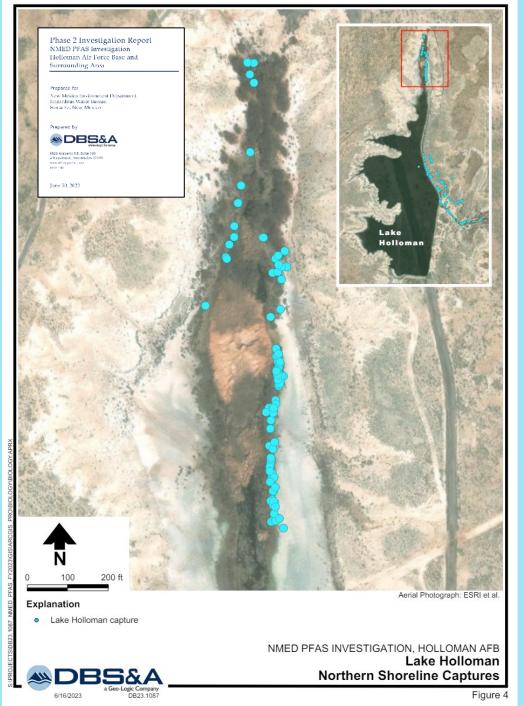


PFAS Holloman Lake Bird Liver Tissue Threshold Exceedances



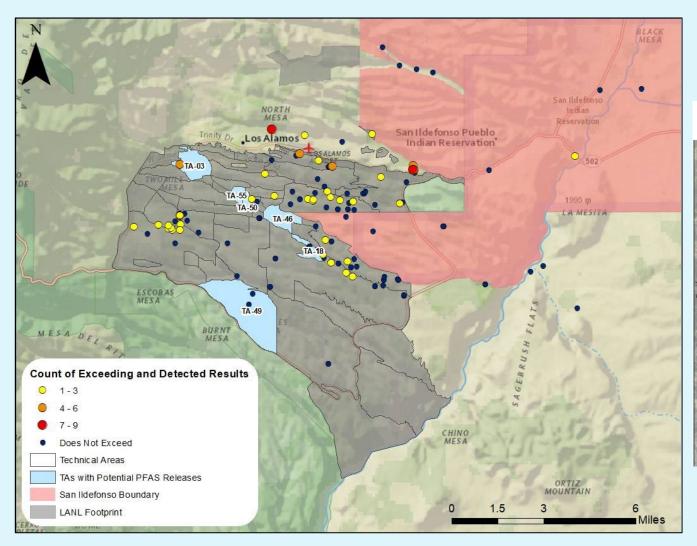
PFOS liver tissue threshold - reduced reproduction 226 - 325 ug/kg (Dennis et al, 2021) 600 ug/kg (Newsted et al., 2005)

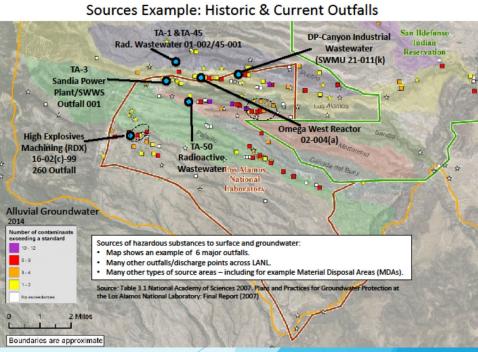






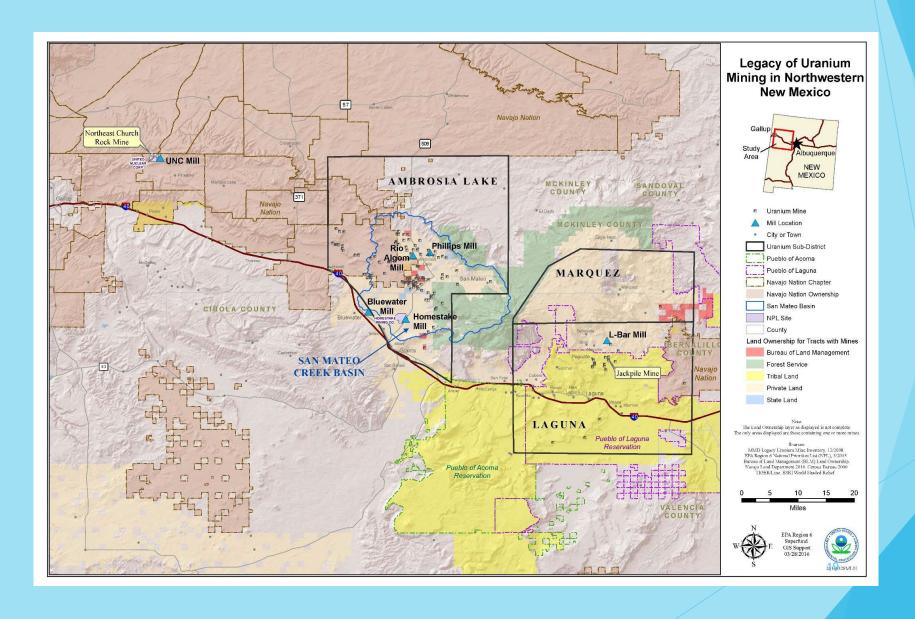
PFAS - LANL





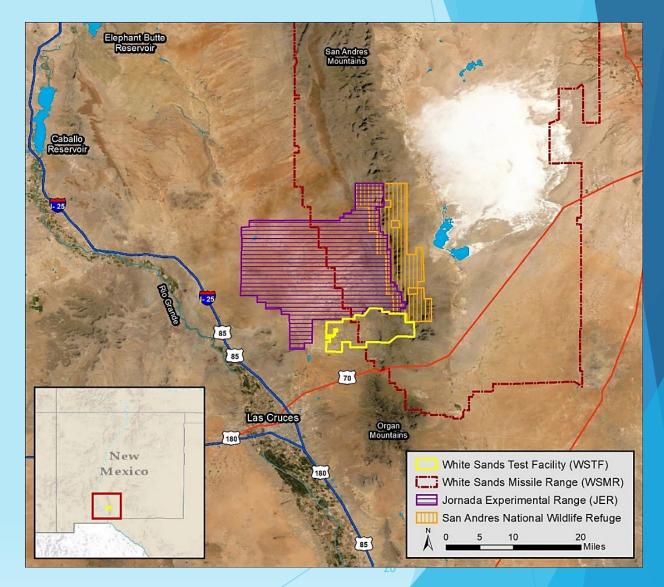


Grants Mining District - uranium mines and mills

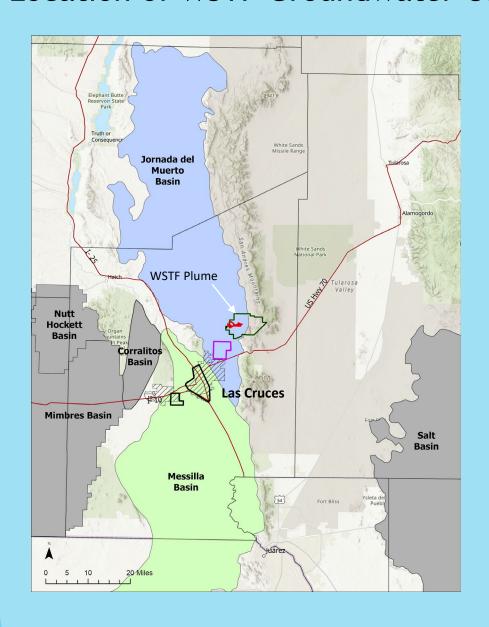


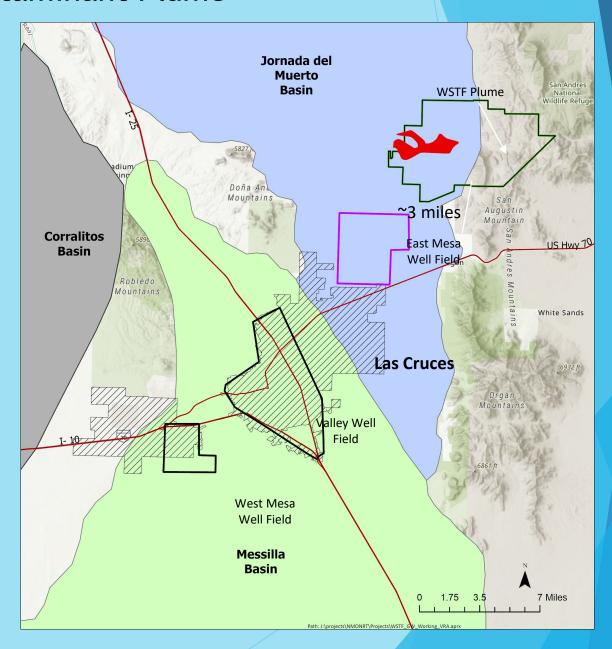
White Sands Test Facility

- Injuries:
 - groundwater contaminated with trichloroethylene, perchloroethylene, n-nitrosodimethylamine
- PRP: NASA and DOD
- Co-Trustees
 - DOI
 - US Dept of Agriculture
 - NASA/DOD
- Status: ONRT conducting the assessment
 - Preassessment Screen completed in 2016
 - Damage Assessment Plan developed in 2019
 - Assessment activities ongoing
 - Potential settlement discussions with NASA and DOD



Location of WSTF Groundwater Contaminant Plume









Questions?

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