

Tronox NE Churchrock Quivira Mines
Removal Site
Coyote Canyon, Pinedale,
and Standing Rock
Chapters of the Navajo Nation
State of New Mexico

Engineering Evaluation / Cost Analysis
(EE/CA)

Administrative Record File

Index

First Release: 09/06/2022

Update #1: 03/22/2024

Update #2: 01/17/2025

About the Administrative Record

This administrative record file contains the documents that the U.S. Environmental Protection Agency (EPA) used to identify appropriate removal activities for the Tronox NE Churchrock Quivira Mines removal site (also referred to as Quivira Mines), in the Coyote Canyon, Pinedale, and Standing Rock Chapters of the Navajo Nation, in the state of New Mexico. Specifically, this administrative record supports the January 6, 2025 Non-Time Critical Removal Action Memorandum for the cleanup of the Quivira Mines. This January 17, 2025 administrative record file updates and incorporates additional documents in the Engineering Evaluation/Cost Analysis (EE/CA) administrative record for the Tronox NE Churchrock Quivira Mines removal site. It is presented in electronic format and digital video disk (DVD).

This administrative record file also includes by reference the documents in the:

- Tronox NE Churchrock Quivira Mines Residential Removal #2 Administrative Record (April 2011)
- Tronox NE Churchrock Quivira Mines Removal Administrative Record (September 2011)
- Tronox NE Churchrock Quivira Mines Red Water Pond Road Removal Administrative Record (August 2012)
- Tronox NE Churchrock Quivira Mines Vent Hole Soils Removal Administrative Record (May 2017)
- Tronox NE Churchrock Quivira Mines Engineering Evaluation / Cost Analysis (EE/CA) Administrative Record (March 2024)

EPA welcomes questions and comments on documents contained in the administrative record file. Please call 1-800-231-3075.

What is an Administrative Record?

An administrative record is a collection of documents that forms the basis for an agency's decision, in this case its decision to undertake and select a response action at a Superfund removal site. The administrative record also provides for public participation in the decision-making process.

Under section 113(k) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended by the Superfund Amendments and Reauthorization Act (SARA), the U.S. Environmental Protection Agency (EPA) is required to establish an administrative record for every Superfund response action and to make a copy of the administrative record available at or near the site. The administrative record must be reasonably available for public review during normal business hours. Questions regarding the maintenance of the administrative record file should be directed to:

Elaine Chan, Administrative Records Coordinator, U.S. EPA (SFD-7-5), 75 Hawthorne Street, San Francisco, CA 94105-3972, Phone: (415) 972-3128

How to obtain copies of administrative record documents:

Individuals may copy any documents contained in the administrative record file according to the procedures at the local repository or request a copy of the documents by calling the Regional Records Center at (415) 947-8717.

**Tronox NE Churchrock Quivira Mines Removal Site
2025 Engineering Evaluation / Cost Analysis (EE/CA) Administrative Record
Acronyms and Abbreviations**

ABBREVIATION	MEANING
70K	70,000
App	Appendix
ARAR	Applicable or Relevant and Appropriate Restriction (or Requirement)
Assn	Association
attch	attachment
AUM	Abandoned Uranium Mine(s)
Dept	Department
Div	Division
DTSC	California Dept of Toxic Substances Control
EE/CAs	Environmental Evaluation/Cost Analyses
EJ Screen	Environmental Justice Screen
EPA	Environmental Protection Agency
et al	and others (Latin)
exh	exhibit
fr	from
FS	Feasibility Study
FSP	Field Sampling Plan
info	information
LLC	Limited Liability Corporation
Ltr	Letter
Memo	Memorandum

Mtg	Meeting
NE	North East
NECR	North East Church Rock
NM	New Mexico
OU	Operable Unit
p	page
PRC	Pipeline Road Community
PRP	Potentially Responsible Party
Pt	Part
RA	Remedial Action
RAES	Response Assessment and Evaluation Services (contract)
RCRA	Resource Conservation and Recovery Act
Rd	Road
re	regarding
ref	referencing
RI	Remedial Investigation
ROD	Record of Decision
rpt	report
RWPRCA	Red Water Pond Road Community Association
SOW	Statement of Work
SVE	Soil Vapor Extraction
TL	Transmittal Letter
UAO	Unilateral Administrative Order
US	United States
v(s)	Volume(s)
VOC(s)	Volatile Organic Compound(s)
w/	with
w/o	without

This administrative record is available for viewing at the following locations: **Cove Chapter**, P.O. Box 378, Red Valley, AZ 86544; **Department of Energy (DOE) Community Outreach Network Office**, Highway 264 & Indian Route 12, Suite 10, Window Rock, AZ 86515; **Kayenta Community Library**, ¼ Mile N. U.S. Highway 163, P.O. Box 1670, Kayenta, AZ 86033; **Tolikan Chapter House**, Highway 160 at U.S. Highway 64, P.O. Box 105, Teec Nos Pos, AZ 86514; and, **U.S. EPA Region 9 Regional Records Center**, 75 Hawthorne Street, San Francisco, CA 94105.

Document ID	Document Date	Title	Author	Addressee
100039241	05/15/2001	Administrative Code Title 19 Natural resources and wildlife, Chapter 10 Non-coal mining (NM Mining Act Rules)	R09: (NM Administrative Code)	
100039221	02/14/2011	Anadarko litigation trust agreement	R09: Foster, Michael (Tronox Inc)	
100039709	09/01/2011	Interim removal action - final removal site evaluation (RSE) report for Quivira site evaluation for Church Rock (CR-1) and CR-1E) mine sites - Figure 3.1A - Figure 4.5	R09: (SENE Consultants Ltd)	R09: (Rio Algom Mining L L C)
1178228	09/01/2011	Interim removal action - final removal site evaluation (RSE) report for Quivira site evaluation for Church Rock (CR-1) and (CR-1E) mine sites, w/o figures or appendices A-E	R09: (SENE Consultants Ltd)	R09: (Rio Algom Mining L L C)
100026874	04/20/2012	Memo: Quivira Mine screening-level investigation rpt (Quivira Cornfields rpt), w/attchs A-H (Apr 2012)	R09: Milton, Brian (Ecology & Environment, Inc)	R09: Ripperda, Mark (Environmental Protection Agency - Region 9), R09: Jacobs, Sara (Environmental Protection Agency -
2351117	02/01/2013	Final rpt - Red Water Pond Rd removal action, w/TL to M Ripperda fr K Blank 2/15/13	R09: (Conestoga-Rovers & Assoc), R09: (SENE Consultants Ltd)	R09: (Rio Algom Mining L L C)
100025667	10/30/2014	Memo: Approval memo to perform EE/CA for non-time critical removal action (Quivira Mine Site)	R09: Ripperda, Mark (Environmental Protection Agency - Region 9), R09: Chilingaryan, Sona (Environmental Protection Agency)	R09: Tenley, Clancy (Environmental Protection Agency - Region 9)
100029479	09/15/2015	Removal assessment rpt (final), Quivira Mine Church Rock #2 mine site, w/appendices A-E	R09: (Weston Solutions, Inc)	R09: (Environmental Protection Agency - Region 9)
100026875	09/25/2015	Quivira Mines floodplain analysis (Hydrologic analysis calculation package)	R09: Waters, Richard (Weston Solutions, Inc), R09: Peterson, Dana (Weston Solutions, Inc)	

Document ID	Document Date	Title	Author	Addressee
1171655	01/01/2016	Community involvement plan 2016 for NECR & Kerr-McGee Quivira Mine sites (4/11/17 Eastern Agency Open House documents)	R09: (Environmental Protection Agency)	
100029207	03/01/2016	Joint guidance for cleanup & reclamation of existing uranium mining operations in NM	R09: (NM Environment Dept), R09: (NM Energy, Minerals & Natural Resources Dept - Mining & Minerals Div)	
100026873	05/11/2016	Oversize Drawings (31): Red Water Pond Rd Bridge plan drawings (complete set), 36 x 24 in	R09: (C B & I Federal Services, L L C)	R09: (Environmental Protection Agency - Region 9)
100039216	05/26/2017	Ltr: Reiterates that EPA's continuing consideration of Quivira waste disposal on New Mexico state land, despite state's opposition to this alternative, is unacceptable	R09: Tongate, Bruce (NM Environment Dept), R09: Mcqueen, Ken (NM Energy, Minerals & Natural Resources Dept)	R09: Strauss, Alexis (Environmental Protection Agency - Region 9)
100039217	06/06/2017	Ltr: Response to New Mexico 05/26/2017 letter re disposal options being considered for waste from Quivira mine site	R09: Strauss, Alexis (Environmental Protection Agency - Region 9)	R09: Tongate, Bruce (NM Environment Dept), R09: Mcqueen, Ken (NM Energy, Minerals & Natural Resources Dept)
100026871	02/01/2019	Draft Quivira Tronox Mine former dewatering ponds removal assessment rpt, w/appendices A-D	R09: (Weston Solutions, Inc)	R09: (US Army Corps of Engineers), R09: (Environmental Protection Agency - Region 9)
100026876	03/01/2020	Removal action rpt (final) for removal action vent holes 1 through 5, w/appendices A-D & F, w/o appendix E	R09: Grubb, Alex (Weston Solutions, Inc)	R09: (Environmental Protection Agency - Region 9)
100039255	05/28/2020	Ltr: Remediation of Quivira Mine site & potential disposal of mine waste rock at Red Rock Landfill	R09: Stringer, Stephanie (NM Environment Dept - Resource Protection Div)	R09: Carver, Larry (Northwest New Mexico Regional Solid Waste Authority)
100026872	09/15/2021	Draft Navajo Tribe provisional reasonable maximum exposures (RME) for Navajo risk assessments (Specific Risk Parameters)	R09: (Navajo Nation Environmental Protection Agency)	

Document ID	Document Date	Title	Author	Addressee
100029605	07/14/2022	Navajo Nation EPA guidance for uniform application of fundamental law of the Dine to AUM cleanup activities	R09: Shirley, Valinda (Navajo Nation Environmental Protection Agency)	
100039218	08/16/2022	Ltr: State of New Mexico permitting requirements for alternative to dispose of Quivira Mine waste & Section 32/33 Mine waste at property owned by Red Rock Landfill, McKinley County, NM	R09: Shepherd, Holland (NM Energy, Minerals & Natural Resources Dept - Mining & Minerals Div), R09: Fox, Joseph (NM Environment Dept)	R09: Nichalson, Brandon (Environmental Protection Agency - Region 9)
1243015	08/23/2022	List of US EPA guidance documents consulted during development & selection of response action for site	R09: (Environmental Protection Agency - Region 9)	
100029765	09/06/2022	Tronox NE Churchrock Quivira Mines Coyote Canyon and Standing Rock Chapters of the Navajo Nation, in the state of NM, engineering evaluation/cost analysis administrative record (AR) index	R09: (Environmental Protection Agency - Region 9)	
100039228	06/20/2023	Presentation: Recommended cleanup alternatives for ten Eastern Agency AUM sites (Mac and Black Jack, Mariano Lake, Quivira, Section 32/33, Ruby Mines)	R09: (Environmental Protection Agency)	R09: (Navajo Nation Council - Resources & Development Committee)
100039223	07/09/2023	Resolution of the Baca-Prewitt Chapter (#BPC/23/07/60) opposing the EPA transporting of uranium waste-ore to Thoreau, NM and surrounding communities	R09: (Baca/Prewitt Chapter, Navajo Nation)	
100039229	09/01/2023	Technical Memo: US EPA Region 9 consultation with US EPA Headquarters - disposal of uranium mine spoils Stennett evaluation (final), w/attachments 1-4	R09: (US Army Corps of Engineers)	

Document ID	Document Date	Title	Author	Addressee
100039907	09/14/2023	(Redacted) Ltr: Discusses concerns with mineral rights and Navajo land allotments at or near landfill that could be affected by remedial alternative to take uranium mine tailings from Church Rock Mine to Thoreau Landfill - transmits map, w/attachment	R09: Degroat, Jerry (US Dept of the Interior - Bureau of Indian Affairs)	R09: (Eastern Navajo Land Commission)
100036443	10/01/2023	Quivira Tronox Mines data gap investigation report, w/appendices A-I & attachments 1 & 2	R09: (Tetra Tech, Inc)	R09: (Environmental Protection Agency)
100039246	10/02/2023	Drawings (19): Drawings & specifications for EPA RAES 2 Quivira temporary stormwater controls design	R09: (Riley Engineering)	R09: (Tetra Tech, Inc)
100036441	11/16/2023	Bridge condition inspection report for Tetra Tech - Quivira Mine Bridge, inspection date 11/16/2023	R09: (H D R Engineering, Inc)	
100039214	11/29/2023	Mtg Notice: Open House meetings, December 12, 13, & 14, 2023 - disposal options for Quivira and Section 32 & 33 mines (English)	R09: (Navajo Nation Environmental Protection Agency), R09: (Environmental Protection Agency - Region 9)	
100039233	12/01/2023	Impact of mine water discharge in the upper Gallup, Zone 3, w/attachments 1-5	R09: (Environmental Protection Agency - Region 9), R09: (Tetra Tech, Inc)	
100039243	12/07/2023	Mtg Notice: Open House meetings, December 12, 13, & 14, 2023 - disposal options for Quivira and Section 32 & 33 mines (revised location for 12/14) (English)	R09: (Navajo Nation Environmental Protection Agency), R09: (Environmental Protection Agency - Region 9)	
100039242	12/12/2023	Ltr: Urgent request to halt transport of uranium tailings to Thoreau Landfill, on behalf of concerned citizens of New Mexico	R09: Munoz, George (NM Senate - Office of George K Munoz)	R09: (Nuclear Regulatory Commission)

Document ID	Document Date	Title	Author	Addressee
100039215	12/19/2023	Ltr: Community response to 12/12 Munoz letter to Nuclear Regulatory Commission - corrects some misunderstandings about the proposed plan & transport of uranium tailings, w/attachments	R09: (Red Water Pond Road Community Assn)	R09: Munoz, George (NM Senate - Office of George K Munoz)
100039250	01/01/2024	Presentation: Quivira Mines and Section 32/23 cleanup alternatives overview (community meeting, January 2024)	R09: (Navajo Nation Environmental Protection Agency), R09: (Environmental Protection Agency - Region 9)	
100039225	01/16/2024	Mtg Notices (6): Important meeting presentation on proposed uranium mine cleanup alternatives for Quivira and Section 32/33 mines (January 23rd to January 26th, 6 meetings for different chapters)	R09: (Navajo Nation Environmental Protection Agency), R09: (Environmental Protection Agency - Region 9)	
100039251	01/16/2024	Public Notice: Presentation on proposed uranium mine cleanup alternatives for Quivira and Section 32/33 mines - meeting dates January 23, 24, 25, & 26 2024	R09: (Navajo Nation Environmental Protection Agency), R09: (Environmental Protection Agency - Region 9)	R09: (Gallup Independent (Newspaper))
100039224	02/02/2024	Ltr: Expresses concern re Navajo Indian allotments at and near Thoreau landfill location - issue needs to be addressed to avoid adverse impact on mineral estates held in trust	R09: Degroat, Jerry (US Dept of the Interior - Bureau of Indian Affairs)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100036440	02/12/2024	Memo: Quivira Mines waste rail and truck haul route evaluation	R09: Mccoy, Colin (Tetra Tech, Inc), R09: Udell, Matt (Tetra Tech, Inc)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039247	02/12/2024	Technical Memo: Quivira Mines waste haul route options (rail, trucking)	R09: Mccoy, Colin (Tetra Tech, Inc), R09: Udell, Matt (Tetra Tech, Inc)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039236	02/29/2024	Newsclip: Disposal of radioactive waste, & additional letters (Letters to the Editor, Navajo Times, February 29 2024, accessed 04/30/2024)	R09: Tracey, Resident, Stefen (Chinle Chapter, Navajo Nation)	

Document ID	Document Date	Title	Author	Addressee
100036439	03/01/2024	Final Engineering Evaluation/Cost Analysis (EE/CA), Quivira Mines, Coyote Canyon, Pinedale, and Standing Rock Chapters, Navajo Nation, NM, w/appendices A-F	R09: (Tetra Tech, Inc)	R09: (Environmental Protection Agency)
100036445	03/01/2024	Fact Sheet: Quivira Mines site recommended cleanup alternative - Red Rocks Disposal Facility, March 2024	R09: (Environmental Protection Agency - Region 9)	
100036446	03/01/2024	Fact Sheet: Quivira Mines site recommended cleanup alternative, March 2024	R09: (Environmental Protection Agency - Region 9)	
100036442	03/19/2024	List of EPA guidance documents consulted during the development of the EE/CA (Engineering Evaluation/Cost Analysis) for Quivira Mines site	R09: (Environmental Protection Agency - Region 9)	
100036462	03/22/2024	Tronox NE Churchrock Quivira Mines, Coyote Canyon, Pinedale, and Standing Rock Chapters of the Navajo Nation, NM, Engineering Evaluation/Cost Analysis (EE/CA) administrative record (AR) index	R09: (Environmental Protection Agency - Region 9)	
100039239	03/23/2024	Presentation: New Mexico Energy, Minerals, and Natural Resources Dept (EMNRD) Mining and Minerals Div (MMD) state permitting process, Quivira & Section 32/33 waste rock disposal	R09: (NM Energy, Minerals & Natural Resources Dept - Mining & Minerals Div)	
100039240	03/23/2024	Presentation: NM Environment Dept Overview of groundwater discharge permitting process (March 23, 2024)	R09: Maurer, Anne (NM Environment Dept)	
100039231	03/26/2024	Newsclip: Quivira uranium waste - 'We don't want it in our community'	R09: Volkert, Vida (Gallup Independent (Newspaper))	
100039232	04/10/2024	Newsclip: Navajo leadership urges EPA to transfer over 70K truckloads of uranium waste to Ambrosia Lake Site	R09: Volkert, Vida (Gallup Independent (Newspaper))	

Document ID	Document Date	Title	Author	Addressee
100039716	04/15/2024	(Redacted) Public comment card on East Quivira Mines site - wants all hazardous materials removed, objects to building windmill	R09: Murphy, Ray	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039819	04/15/2024	(Redacted) Public comment form - suggests fixing roads first (comment on Quivira East Mines site proposed cleanup plans)	R09: Murphy, Ayden	R09: (Environmental Protection Agency)
100039820	04/15/2024	(Redacted) Public comment form in support of removing uranium mine waste (East Quivira Mine site), and 3 additional requests	R09: Murphy Barraza, Lasey	R09: (Environmental Protection Agency)
100039862	04/15/2024	(Redacted) Public comment form - Quivira Mine option #3 preferred, Pipeline Rd needs repair	R09: Murphy, Sr, Alfred	R09: (Environmental Protection Agency - Region 9)
100039864	04/15/2024	(Redacted) Public comment form re East Quivira Mine - concerns with health of relative, need for paving of Pipeline Road	R09: Barraza, Pete	R09: (Environmental Protection Agency)
100039675	04/16/2024	Public comment form - opposes dumping of uranium waste at Red Rock Landfill in Thoreau (unsigned)		R09: (Environmental Protection Agency)
100039676	04/16/2024	Public comment form - opposes dumping of uranium waste near Thoreau or Crownpoint (unsigned)		R09: (Environmental Protection Agency)
100039677	04/16/2024	Public comment form - in favor of Alternative 5 and against dumping of uranium waste in Thoreau or Crownpoint (unsigned)		R09: (Environmental Protection Agency)
100039678	04/16/2024	Public comment form - opposes dumping of waste at Thoreau or Crownpoint, in support of moving it to Colorado (unsigned)		R09: (Environmental Protection Agency)

Document ID	Document Date	Title	Author	Addressee
100039219	04/19/2024	Memo: Quivira and Section 32/33 Mine sites Environmental Evaluation/Cost Analysis (EE/CA) recommended cleanup alternative - notifies Section 28 allottees (for Tracts 216311 and 216313) of possible impact on allotment parcels, w/o enclosures	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)	
100039704	05/01/2024	Email: Public comment from resident expressing concerns about proposed plan to dispose of waste in Thoreau, NM landfill	R09: Pagett, Resident, Jamie (City of Thoreau, NM)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039235	05/02/2024	Newsclip: A letter to the 10th grade class at Thoreau High School and additional Letters to the Editor (Navajo Times, May 2 2024, accessed 06/11/2024)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)	
100039878	05/08/2024	(Redacted) Mtg Notes: Red Water Pond Community Assn 05/08/2024 meeting summary, w/sign-in sheet	R09: Crank, Seth (Tetra Tech, Inc)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039249	05/15/2024	Presentation: Quivira Mines and Section 32/33 Mines recommended cleanup alternative (Thoreau High School, May 15 2024)	R09: (Environmental Protection Agency - Region 9)	
100039238	05/16/2024	Newsclip: Clearing the air - why we support moving uranium mine waste to the Red Rock landfill (Navajo Times guest column, p A6)	R09: Hood, Edith (Red Water Pond Road Community Assn), R09: Keyanna, Teracita (Red Water Pond Road Community Assn)	
100039248	05/16/2024	US EPA communications plan - Quivira Mines site Engineering Evaluation/Cost Analysis (EE/CA), Pinedale, Thoreau, Church Rock, Coyote Canyon, and Standing Rock Chapters, Navajo Nation, New Mexico (May 2024)	R09: (Environmental Protection Agency - Region 9)	

Document ID	Document Date	Title	Author	Addressee
100039670	05/16/2024	(Redacted) Ltr: Public comment from student expressing concern with issue of uranium waste being dumped in Thoreau, NM landfill, w/email forward to Kenyon Larsen from Anne Uhring 05/21/2024	R09: (Thoreau High School Students)	R09: (Environmental Protection Agency)
100039689	05/16/2024	(Redacted) Email: Public comment from student on uranium mine waste - questions whether waste removal is a reasonable solution, w/forward to Kenyon Larsen from Anne Uhring 05/21/2024	R09: (Thoreau High School Students)	R09: Uhring, Anne (Gallup-McKinley County Public Schools)
100039691	05/16/2024	(Redacted) Email: Public comment & thanks from student for visiting school - expresses concerns with transport & disposal of uranium in Thoreau landfill (ref uranium landfill in New Mexico), w/forward to Anne Uhring & Kenyon Larsen 05/21/2024	R09: (Thoreau High School Students)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9), R09: Uhring, Anne (Gallup-McKinley County Public Schools)
100039693	05/16/2024	(Redacted) Email: Public comment from student objecting to putting uranium in landfill on Navajo Nation, w/forward to Kenyon Larsen from Anne Uhring 05/21/2024	R09: (Thoreau High School Students)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9), R09: Uhring, Anne (Gallup-McKinley County Public Schools)
100039594	05/17/2024	Ltr: Review & comments on Tronox settlement Quivira Mine Engineering Evaluation Cost Analysis (EE/CA)	R09: Maurer, Anne (NM Environment Dept)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039597	05/17/2024	Ltr: Comments on Tronox Settlement Section 32 and 33 Mines Engineering Evaluation Cost Analysis (EE/CA)	R09: Maurer, Anne (NM Environment Dept)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039883	05/17/2024	(Redacted) Email: Public comment from student opposing dumping of uranium near Thoreau community	R09: (Thoreau High School Students)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039895	05/17/2024	(Redacted) Email: Student questions & comments opposing using Thoreau landfill for uranium disposal	R09: (Thoreau High School Students)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)

Document ID	Document Date	Title	Author	Addressee
100039896	05/17/2024	(Redacted) Email: Student questions & comments opposing dumping uranium waste in Red Rock Landfill in Thoreau	R09: (Thoreau High School Students)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039898	05/17/2024	(Redacted) Email: Student public comment on health concerns about putting uranium (waste) in Thoreau - should be taken somewhere else	R09: (Thoreau High School Students)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039598	05/20/2024	Ltr: NM Mining & Minerals Division comments on the Quivira Mines (Coyote Canyon, Pinedale, & Standing Rock Chapters), final Engineering Evaluation/Cost Analysis (EE/CA) dated March 2024	R09: Ennis, D (NM Energy, Minerals & Natural Resources Dept)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039682	05/20/2024	(Redacted) Email: Public comment - high school student concerned about transport of uranium waste to Thoreau NM, w/forward from Anne Uhring to Kenyon Larsen 05/21/2024	R09: (Thoreau High School Students)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9), R09: Uhring, Anne (Gallup-McKinley County Public Schools)
100039713	05/20/2024	Ltr: Rio Algom Mining LLC comments on Quivira Mines final engineering evaluation cost analysis (EE/CA)	R09: Ramsay, Kevin (Rio Algom Mining L L C)	R09: (Environmental Protection Agency - Region 9)
100039718	05/20/2024	(Redacted) Email: Student comment & acknowledgement of schedule, request for response to comment (do not want uranium here), w/history	R09: (Thoreau High School Students)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039865	05/20/2024	(Redacted) Ltr: Questions from high school senior class about proposal to move uranium waste to landfill near Thoreau, NM, w/email forward 05/22/2024 from Anne Uhring	R09: (Thoreau High School Students)	R09: Hogan, Sean (Environmental Protection Agency - Region 9), R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039884	05/20/2024	(Redacted) Email: Student opinion on using Thoreau (landfill) for uranium disposal - expresses numerous concerns	R09: (Thoreau High School Students)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)

Document ID	Document Date	Title	Author	Addressee
100039885	05/20/2024	(Redacted) Email: Public comment from student on putting uranium in landfill in Thoreau, NM	R09: (Thoreau High School Students)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039886	05/20/2024	(Redacted) Email: Student opinion strongly disagreeing with disposal of uranium at Thoreau landfill	R09: (Thoreau High School Students)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039888	05/20/2024	(Redacted) Email: Public comment from student disagreeing with uranium dumping in Thoreau landfill	R09: (Thoreau High School Students)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039890	05/20/2024	(Redacted) Email: Student opinion opposing putting uranium (used fuel) waste in Thoreau NM landfill	R09: (Thoreau High School Students)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039891	05/20/2024	(Redacted) Email: Student opinion opposing putting uranium waste in Red Rock Landfill (Thoreau landfill)	R09: (Thoreau High School Students)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039892	05/20/2024	(Redacted) Email: Student questions and comments on disposing of uranium in landfill (ref Thoreau's reputation)	R09: (Thoreau High School Students)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039893	05/20/2024	(Redacted) Email: Student questions & comments in opposition to dumping uranium in New Mexico (ref Uranium Land Field in Thoreau New Mexico)	R09: (Thoreau High School Students)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039894	05/20/2024	(Redacted) Email: Student comment - concerns with health risk of transport & disposal of uranium in Thoreau, NM landfill	R09: (Thoreau High School Students)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039897	05/20/2024	(Redacted) Email: High school student comment - no uranium waste should be disposed of in Redrock Landfill close to Thoreau's community	R09: (Thoreau High School Students)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039899	05/20/2024	(Redacted) Email: Student / resident comment opposing bringing uranium waste to Thoreau and using Thoreau landfill for uranium disposal	R09: (Thoreau High School Students)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)

Document ID	Document Date	Title	Author	Addressee
100039900	05/20/2024	(Redacted) Email: Student comment opposing using Thoreau Landfill for uranium disposal - dangerous for town and surrounding areas like Smith Lake	R09: (Thoreau High School Students)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039596	05/21/2024	Ltr: Bureau of Indian Affairs Navajo Regional Office comments on response actions recommended in Engineering Evaluation/Cost Analysis (EE/CA) for Section 32/33 mines & Quivira mines	R09: Shirley, Deborah (US Dept of the Interior - Bureau of Indian Affairs)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039671	05/21/2024	(Redacted) Email: Public comment from student opposing bringing uranium to Thoreau, w/forward from Anne Uhring	R09: (Thoreau High School Students)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039673	05/21/2024	(Redacted) Memo: Red Water Pond Rd (comment in support of alternative 3, from Vietnam veteran), w/email TL to Kenyon Larsen	R09: Hood, Johnny	R09: (Navajo Tribal Council)
100039685	05/21/2024	(Redacted) Email: Public comment from high school student disagreeing with dumping uranium in landfill, w/history	R09: Uhring, Anne (Gallup-McKinley County Public Schools)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039698	05/21/2024	(Redacted) Email: Public comment in support of choosing Alternative 3	R09: Hogue, Sam	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039708	05/21/2024	Email: Public comment in support of Alternative 3 (using Thoreau landfill for uranium disposal)	R09: Porter, Anne	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039715	05/21/2024	Email: Public comment supporting Alternative 3	R09: Lowery, Christine	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039818	05/21/2024	(Redacted) Email: Public comment strongly in support of Alternative 3 - transmits detailed comments on Quivira Mines site proposed cleanup plan, w/attachment	R09: Sheehy, Resident, Patricia (City of Gallup, NM)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)

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100039857	05/21/2024	(Redacted) Email: Public comment - requests that EPA choose Alternative 3 for the Quivira Engineering Evaluation / Cost Assessment (EE/CA)	R09: Weahkee, Laurie	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039861	05/21/2024	(Redacted) Email: 14 messages from Thoreau High School students commenting on uranium disposal in Thoreau	R09: (Thoreau High School Students)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039867	05/21/2024	(Redacted) Email: Public comment from former Red Water Pond Road area resident in support of Alternative 3 (ref Red Water Pond Road Community - Proposal To Remove Waste From Quivera Mine)	R09: Blackie, Resident, Jason (City of Albuquerque, NM)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039868	05/21/2024	(Redacted) Email: Public comment in support of Alternative 3 for cleanup of mine waste that affects residents of Red Water Pond Road and environs	R09: Bonime, Resident, Karen (City of Albuquerque, NM)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039881	05/21/2024	(Redacted) Email: Public comment from high school student not in support of using Thoreau landfill for uranium waste disposal	R09: (Thoreau High School Students)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039882	05/21/2024	(Redacted) Email: Public comment - urgent request from student to protect Thoreau from uranium waste transfer	R09: Uhring, Anne (Gallup-McKinley County Public Schools)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039887	05/21/2024	(Redacted) Email: Public comment - student expresses appreciation for presentation & concern for transporting uranium on I-40 (ref my opinion)	R09: (Thoreau High School Students)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039889	05/21/2024	(Redacted) Email: Student opinion opposing putting uranium waste in Thoreau NM landfill	R09: (Thoreau High School Students)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039902	05/21/2024	(Redacted) Email: Public comment in support of Red Water Pond Road and Pipeline Road Community decision (Alternative 3)	R09: Frank, Augusta	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)

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100039593	05/22/2024	Diné Uranium Remediation Advisory Commission public comments for the Quivira Mines final Engineering Evaluation/Cost Analysis (EE/CA)	R09: (Dine Uranium Remediation Advisory Commission)	
100039683	05/22/2024	Email: Public comment on behalf of Citizens for Alternatives to Radioactive Dumping (CARD) in support of Alternative 3 (Red Water Pond)	R09: Greenwald, Janet (Citizens for Alternatives to Radioactive Dumping)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039695	05/22/2024	Email: Public comment - please choose Alternative 3	R09: Parks, Katrina	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039699	05/22/2024	Ltr: Final comments on Engineering Evaluation/Cost Analysis on behalf of Red Water Pond Road Community Assn, Eastern Navajo Diné Against Uranium Mining and Multicultural Alliance for Safe Environment, w/email TL	R09: Jantz, Eric (New Mexico Environmental Law Center)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039703	05/22/2024	Email: Navajo EPA Executive Director comments to final EE/CAs for Quivira and Section 32/33 - discusses land use policy and recommends that US EPA provides more analysis of high-pressure slurry ablation technology	R09: Etsitty, Stephen (Navajo Nation Environmental Protection Agency)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039717	05/22/2024	Email: Public comments in support of Alternative #3 (for Navajo AUM Quivira waste), w/history	R09: Tate, Ryan (Interfaith Power & Light - New Mexico & El Paso Region)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039725	05/22/2024	Email: Public comments in support of Alternative 3 from two Red Water Pond Road area residents	R09: Nez, Bertha (Red Water Pond Road Community), R09: Nez, Jennifer (Red Water Pond Road Community)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)

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100039817	05/22/2024	(Redacted) Email: Public comment in support of Alternative 3 to protect the Red Water Pond Road Community and other communities nearby	R09: Gordon, Resident, Susan (City of Santa Fe, NM)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039860	05/22/2024	(Redacted) Email: Public comment in support of Alternative #3 for the community (ref Navajo AUM Quivira)	R09: Cleveland, Chassity (City of Bloomfield, NM)	
100039866	05/22/2024	(Redacted) Email: Public comment on Quivira Engineering Evaluation and Cost Assessment (EE/CA) in support of Alternative 3	R09: Nichols, Jean (City of Llano, NM)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039901	05/22/2024	(Redacted) Email: Public comment from friend of Red Water Pond Road family in support of Alternative 3	R09: Notah, Jason	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039909	05/22/2024	(Redacted) Comments on Environmental Evaluation/Cost Analysis (EE/CA) for Section 32/33 and for NE Churchrock Quivira and US EPA communications with public	R09: Martinez-silversmith, Leeanna (Navajo Nation Environmental Protection Agency - Superfund Program)	R09: (Environmental Protection Agency - Region 9)
100039700	05/23/2024	Email: Public comment in support of moving Quivira mine waste using Alternative 3	R09: Brown, Judy (Interfaith Power & Light - New Mexico & El Paso Region)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039701	05/23/2024	Email: Comment in support of choosing Alternative 3 for Navajo AUM Quivira uranium mine waste	R09: Watchempino, Laura (Multicultural Alliance for a Safe Environment)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039821	05/23/2024	(Redacted) Email: Public comment in support of Alternative 3	R09: Windisch, Resident, Betsy (City of Gallup, NM)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)
100039879	06/12/2024	(Redacted) Mtg Notes: Red Water Pond Community Assn 06/12/2024 meeting summary, w/sign-in sheet	R09: Crank, Seth (Tetra Tech, Inc)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)

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100039254	07/12/2024	Ltr: Gives notice of adoption of Joint Resolution 001 - RWPRCA and PRC's formal support of the US EPA selection of alternative 3, disposal of Quivira Mine wastes at the Red Rock Landfill property, w/resolution and attachments	R09: Hood, Edith (Red Water Pond Road Community Assn)	R09: Nygren, Buu (Navajo Nation Office of the President & Vice President)
100039880	07/17/2024	(Redacted) Mtg Notes: Red Water Pond Community Assn 07/17/2024 meeting summary, w/sign-in sheets	R09: Gorospe, Michaela (Tetra Tech, Inc)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9), R09: Arviso, Elisa (Environmental Protection Agency - Region 9), R09: Tiballi, Craig (Environmental Protection Agency - Region 9)
100039213	08/14/2024	Mtg Notes: US EPA, Red Water Pond Community Assn (RWPCA) and Pipeline Rd 08/14/2024 community meeting summary, w/o sign-in sheet	R09: Gorospe, Michaela (Tetra Tech, Inc)	R09: Keyanna, Teracita (Red Water Pond Road Community Assn)
100039237	09/19/2024	Memo: Summary of comments on Quivira Mines EE/CA (Environmental Evaluation/Cost Analysis) and the Section 32/33 Mines EE/CA	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)	R09: Duncan, Will (Environmental Protection Agency - Region 9)
100039244	09/20/2024	Memo: Confirms 10/09/2024 government-to-government consultation on Navajo AUM risk assessment methodology and recommended cleanup alternatives for Quivira Mines site and Section 32/33 Mines sites	R09: Montgomery, Michael (Environmental Protection Agency - Region 9)	R09: Etsitty, Stephen (Navajo Nation Environmental Protection Agency), R09: Jesus, Brenda (Navajo Nation Council - Resources & Development Committee)
100039230	09/23/2024	Email: 2nd phase government-to-government consultation for Quivira and Section 32/33 Mine sites, w/forward to Kenyon Larsen, et al from Sean Hogan, w/attachments	R09: Duncan, Will (Environmental Protection Agency - Region 9)	R09: Etsitty, Stephen (Navajo Nation Environmental Protection Agency), R09: Jesus, Brenda (Navajo Nation Council)

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100039252	09/23/2024	EJScreen community report, Quivira Mines site (20 miles ring)	R09: (Environmental Protection Agency)	
100039253	09/23/2024	EJScreen ACS (American Community Survey) summary report for Quivira Mines site 20 mile radius	R09: (Environmental Protection Agency)	
100039592	10/02/2024	Memo: Follow up on question raised at 07/30 meeting re potential disposal option for mine waste rock from Quivira Mines Site (White Mesa Mill)	R09: Montgomery, Michael (Environmental Protection Agency - Region 9)	R09: Etsitty, Stephen (Navajo Nation Environmental Protection Agency)
100039595	11/01/2024	Ltr: Memorializes government-to-government consultation and coordination plan discussed 07/30/2024, for 7 Eastern Agency Navajo Abandoned Uranium Mine (NAUM) sites	R09: Guzman, Martha (Environmental Protection Agency - Region 9)	R09: Nygren, Buu (Navajo Nation Office of the President & Vice President)
100039869	11/06/2024	Memo: Use of Ambrosia Lake region in McKinley County, New Mexico, for abandoned uranium mines waste disposal, w/attachment	R09: Breen, Barry (Environmental Protection Agency - Office of Land & Emergency Management), R09: Villa, Clifford (Environmental Protection Agency - Office of Land & Emergency Management)	R09: Montgomery, Michael (Environmental Protection Agency - Region 9), R09: Crossland, Ronnie (Environmental Protection Agency - Region 6)
100039910	11/08/2024	(Redacted) Presentation: Quivira and Section 32/33 Mines final recommended cleanup alternative, government to government consultation	R09: (Environmental Protection Agency)	
100039591	11/21/2024	Memo: Post-public comment period government-to-government consultation on recommended cleanup alternatives for Quivira Mines & Section 32/33 Mine sites, & pre-public comment consultation on draft environmental evaluation for Section 9 mine site	R09: Montgomery, Michael (Environmental Protection Agency - Region 9)	R09: Etsitty, Stephen (Navajo Nation Environmental Protection Agency), R09: Jesus, Brenda (Navajo Nation Council - Resources & Development Committee)

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100039908	12/02/2024	(Redacted) Presentation: Quivira and Section 32/33 Mines final recommended cleanup alternative, government to government consultation, w/prior consultation slides for reference	R09: (Environmental Protection Agency)	
100039603	12/18/2024	Memo: Post-public comment period government-to-government consultation on recommended cleanup alternatives for Quivira Mines site and Section 32/33 Mines site, w/o enclosure	R09: Montgomery, Michael (Environmental Protection Agency - Region 9)	R09: Etsitty, Stephen (Navajo Nation Environmental Protection Agency), R09: Jesus, Brenda (Navajo Nation Council - Resources & Development Committee)
100039634	01/06/2025	Action Memo: Approval for non-time critical removal action at site, Attachment 2 - site location, feature, and removal extent maps	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)	R09: Breen, Barry (Environmental Protection Agency - Office of Land & Emergency Management)
100039635	01/06/2025	Action Memo: Approval for non-time critical removal action at site, Attachment 3 - EJScreen community report, Quivira Mines site 5 mile radius	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)	R09: Breen, Barry (Environmental Protection Agency - Office of Land & Emergency Management)
100039636	01/06/2025	Action Memo: Approval for non-time critical removal action at site, Attachment 4 - Applicable or Relevant and Appropriate Requirements (ARARs)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)	R09: Breen, Barry (Environmental Protection Agency - Office of Land & Emergency Management)
100039637	01/06/2025	Action Memo: Approval for non-time critical removal action at site, Attachment 5 - response to comments (responsiveness summary)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)	R09: Breen, Barry (Environmental Protection Agency - Office of Land & Emergency Management)
100039808	01/06/2025	Action Memo: Approval for non-time critical removal action at site, Coyote Canyon, Pinedale, and Standing Rock Chapters, Navajo Nation Indian Reservation - McKinley County, NM, w/o attachments 1-6	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)	R09: Breen, Barry (Environmental Protection Agency - Office of Land & Emergency Management)

Document ID	Document Date	Title	Author	Addressee
100039810	01/06/2025	Action Memo: Approval for non-time critical removal action at site, Attachment 1 - administrative record index	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)	R09: Breen, Barry (Environmental Protection Agency - Office of Land & Emergency Management)
100039816	01/06/2025	Action Memo: Approval for non-time critical removal action at site, Attachment 6 - enforcement confidential addendum (Privileged document target only)	R09: Larsen, Kenyon (Environmental Protection Agency - Region 9)	R09: Breen, Barry (Environmental Protection Agency - Office of Land & Emergency Management)