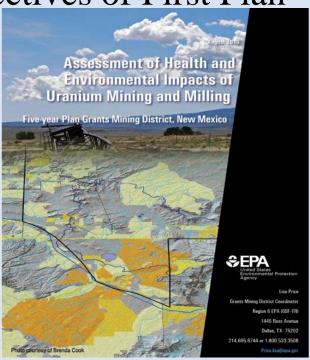


#### STATUS OF FIVE-YEAR PLAN

• Second 5-Year Plan for 2015-2020

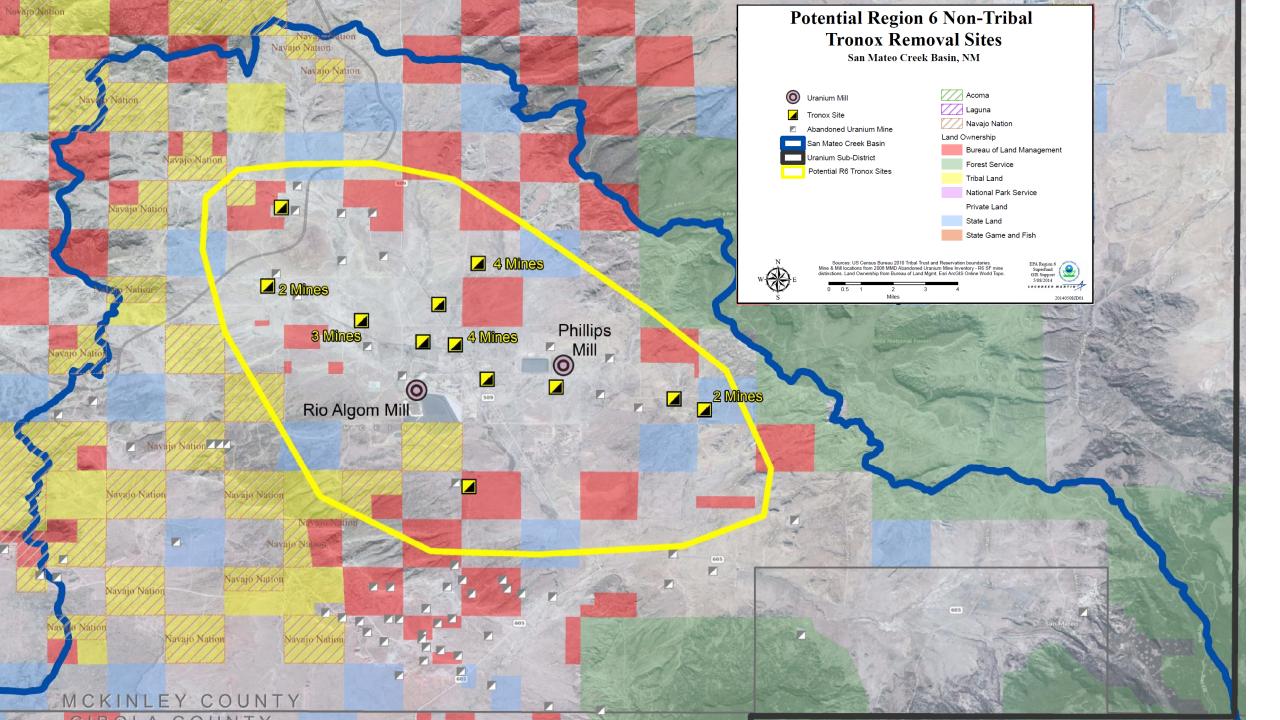
Keep Original Framework and Objectives of First Plan

- Water Sources
- Legacy Mines
- Former Uranium Mills
- Residential Properties and Structures
- Communicate and coordinate with Communities
- Coordination with Region 9
- Discuss with Partners
- http://www2.epa.gov/grants-mining-district



# Tronox Settlement Agreement "Designated Navajo Area Mines"

- \$5.2 Billion
- \$985 million of settlement to fund response at 49 abandoned uranium mines in and near the Navajo
   Nation
- 22 of the 49 mines located in EPA Region 6

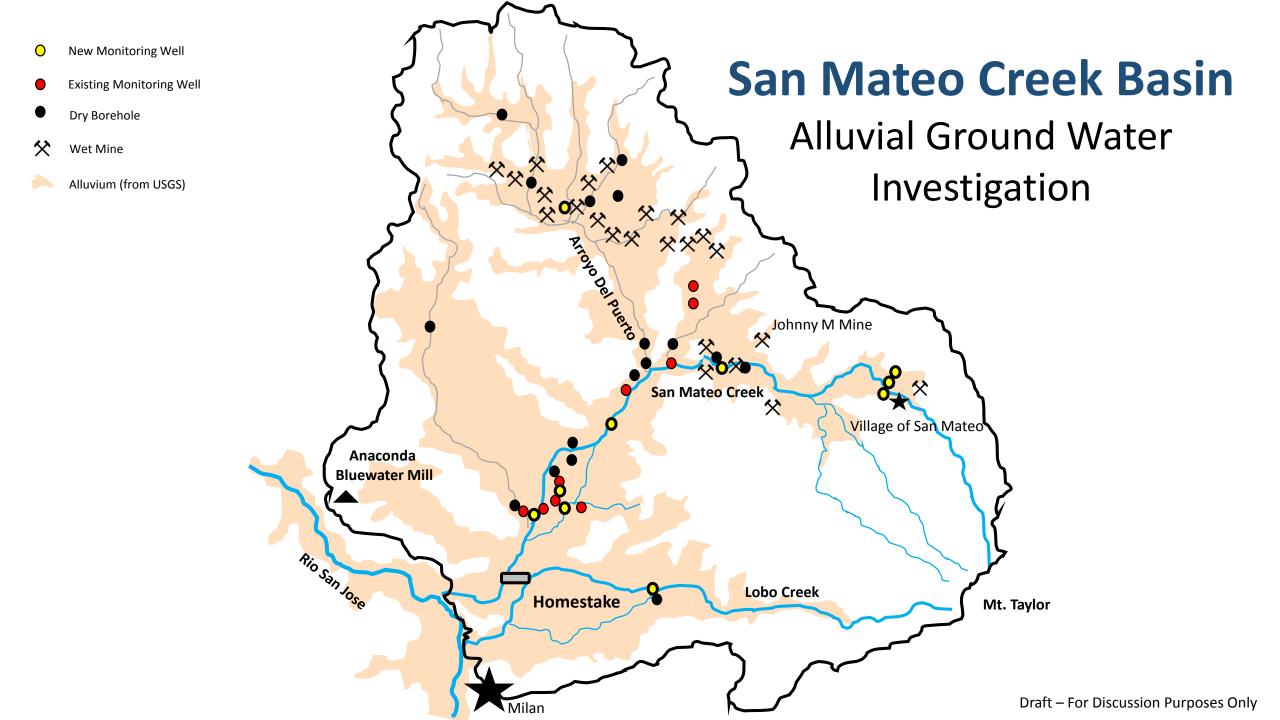


#### **GROUNDWATER INVESTIGATION**

#### San Mateo Creek Basin Tronox NAUM Ambrosia Lake Impact Area







#### GROUND WATER INVESTIGATION UPDATE

- Phase 1 Data Collection 2014
- Phase 2 Data Collection 2015
- Analysis and Interpretation of Data Ongoing
  - Chemical and Radiological Data
  - Ground Water Maps
  - Geological Cross-Sections

#### WHAT WE ARE TRYING TO UNDERSTAND?

- How did mining operations impact ground water?
- Where did the contaminated ground water go?
- Where is it today?
- Where is it going and who will it threaten?

### PLANNED ACTIVITIES FOR GROUND WATER INVESTIGATION

Complete
Phase 1 GW
Report

June 2016 Complete
Phase 2 GW
Report
October

2016

Other Data into Study
December 2016

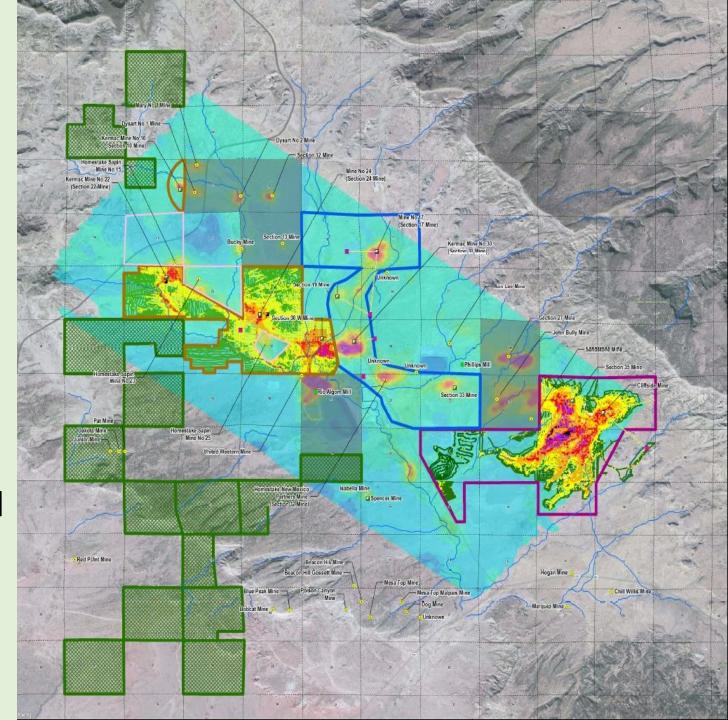
Incorporate

Assess Data
Gaps
February
2017

Limited Field Investigation Summer 2017 Complete Conceptual Site Model Summer 2018

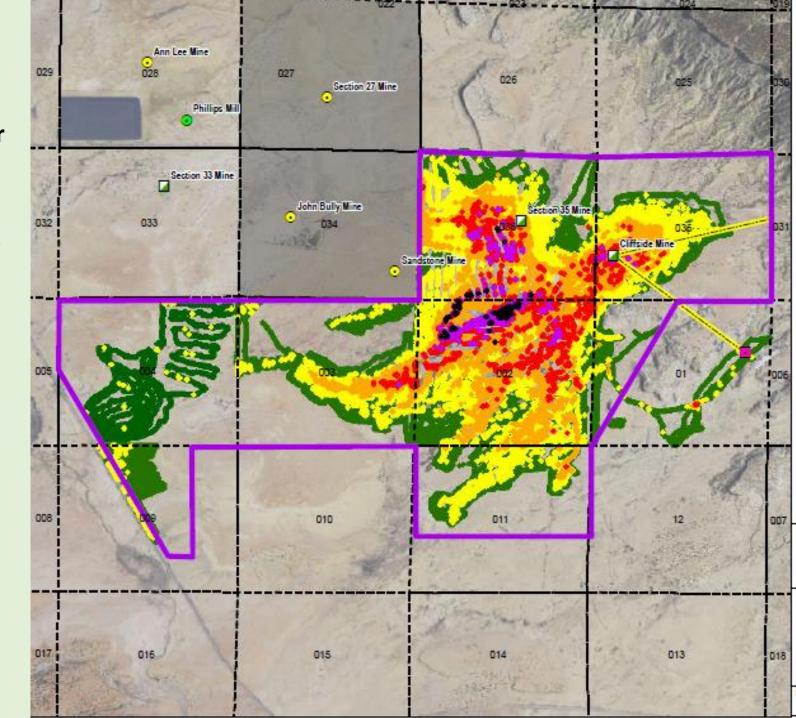
#### Background / Status

- 12 U mine surface expressions in the Ambrosia Lake SD of the Tronox settlement area
  - 8 EPA 6 lead
  - 3 EPA 6 and 9 co-lead (Section 10, Section 22 and Section 32/33)
  - 1 BLM lead (no funding request anticipated)
- Ambrosia Lake SD Mine Removal Assessment Areas
  - Section 32/33
  - 3 Geographic Sub-Areas



#### **EAST GSA STATUS**

- Extent of contamination assessment or RSA completed 03/16.
- EE/CA Approval Memo signed 04/16.
  - Documents threats posed by Site from RSA
  - Authorizes preparation of EE/CA
- EE/CA document in preparation, initial draft due 08/16:
  - Evaluates feasible remediation options to protect human health and environment.
  - Cost analysis of remediation options including costs for removal, waste management, cultural resource impacts, revegetation and long-term management
- Continuing Community Involvement Plan (CIP) development in conjunction with R9.



# EAST GSA PLANNED 2016 ACTIVITIES

ALL PLANNED
2016 ACTIVITIES
IN GSA WILL
UTILIZE EXISTING
2015 FUNDING

EE/CA Approval Memo Signed CY16/Q1

Prepare EE/CA CY16/Q2

EE/CA
Review/
Comment
Period (Tronox
Team)
CY16/Q3

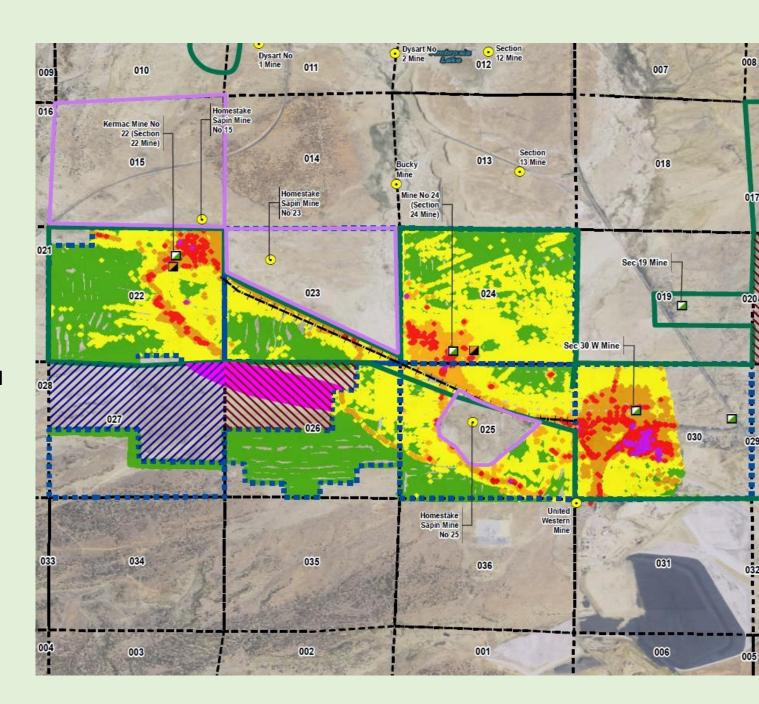
Finalize CIP CY16/Q3

EE/CA Public Comment Period & Response to Comments CY16/Q4

Draft Non-Time Critical Action Memorandum CY16/Q4

#### **WEST GSA STATUS**

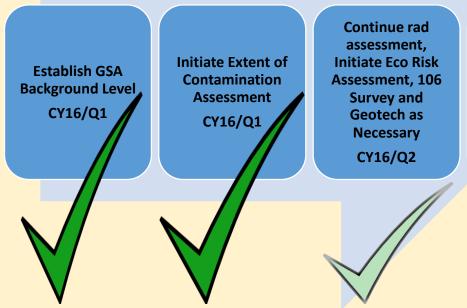
- ❖ Initiated RSA on 03/14/2016, Ongoing and on-schedule
- Issues
  - ☐ Have <u>3 non-Tronox</u> mines impacting Tronox NAUM area
    - Mines were assessed using R6 AOA funds
    - R6 will seek enforcement action against mine operators under CERCLA for "noninterference"
  - ☐ BLM property potentially impacted from Tronox Section 22 off-site migration
    - R6 seeking access from BLM to assess and determine if waste originated from Tronox Section 22
  - Navajo allotment land potentially impacted from Section 22 off-site migration
    - R6/R9 contacted BIA (Eastern Agency) to identify allotees
    - R6 working with Priscilla Tom to establish "active" status of homesite or grazing permits on allotments
    - R6 will coordinate any assessment activities on allotments with Navajo EPA



#### WEST GSA 2016 PLANNED ACTIVITIES

**EXTENT OF CONTAMINATION SURVEY** 

**EE/CA PROCESS** 



Finalize Extent of
Contamination
and Interim Status
Report
CY16/Q3

EE/CA
Approval
Memo
Signed
CY16/Q3

Prepare EE/CA CY16/Q3 Complete EE/CA CY16/Q4 Review/
Comment
Period
(Tronox
Team)
CY16/Q4

EE/CA

Finalize CIP CY16/Q4

Public Comment Period & Response to Comments

EE/CA

## Region 6 Ambrosia Lake Sub District Activities and Navajo Fundamental Law

Where possible and to the extent practicable, the principles of Navajo Fundamental Law are integrated into all R6 CERCLA activities in Ambrosia Lake

- Cultural resources surveys conducted or planned, consistent with Traditional Law and CERCLA requirements
- Biological resource surveys conducted or planned, consistent with Natural Law and CERCLA requirements
- Community/Chapter meetings and Outreach Activities consistent with Traditional, Customary and Common Laws and CERCLA requirements
  - Presented overview of R6 ALSD activities at Baca-Prewitt Chapter meeting
  - Began residential outreach along Black Wood Road area in Baca-Prewitt Chapter
  - Working on joint outreach opportunities with Priscilla Tom at the Eastern Agency Fair
- Working through established process to obtained access from and provide information to the allotees with interest in allotments impacted by mine discharge (Section 27) consistent with Customary and Common Law and CERCLA requirements.

