



NEVADA DIVISION OF  
**ENVIRONMENTAL  
PROTECTION**



Nevada Department of  
**CONSERVATION &  
NATURAL RESOURCES**

# Three Kids Mine

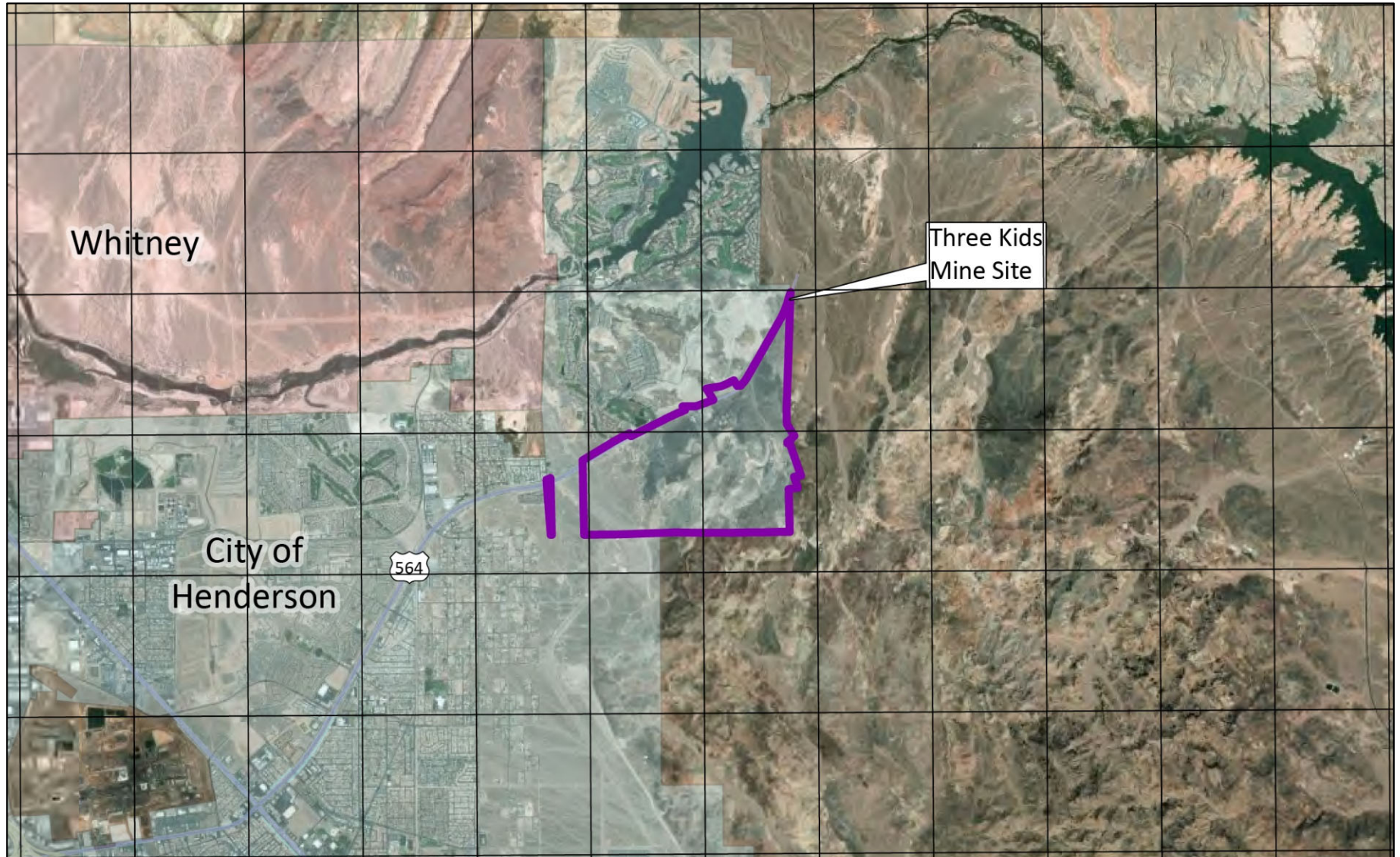
## Community Information Meeting

### March 9, 2023



# THREE KIDS MINE

## SITE LOCATION



# THREE KIDS MINE

## PROPOSED PLAN

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The Proposed Plan has been developed to obtain public input on the proposed solution to environmental contamination at Three Kids Mine.

The purpose of the Proposed Plan is to:

- Provide site background information;
- Describe the remedial alternatives considered;
- Identify the Preferred Alternative;
- Solicit public review and comments on the Preferred Alternative; and
- Provide information on how community members can be involved in the remedy selection process.



The Proposed Plan is available on NDEP's website:

<https://tinyurl.com/59wf95xb>

# THREE KIDS MINE

## SITE LAYOUT



# THREE KIDS MINE

## SITE ASSESSMENT REPORTS

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Site assessment reports are available on NDEP's website: <https://bit.ly/3PVadvE>

- ***Phase I Environmental Site Assessment*** – identifies recognized environmental conditions
- ***Remedial Investigation Report*** – establishes nature and extent of impacts
- ***Background Soil Report*** – presents naturally occurring levels of metals at the site
- ***Asbestos Survey Report*** – describes asbestos sampling and results
- ***Focused Feasibility Study Report*** – evaluates remedial alternatives for the site
- ***Leaching Analysis Report*** – considers the potential for leached materials to be generated from mine waste
- ***Screening Level Ecological Risk Assessment*** – assesses risk for plants or animals in disturbed portions of the site
- ***Screening Level Human Health Risk Assessment*** – evaluates potential human health concerns on the volcanic ridge east of the site

# THREE KIDS MINE

## CHEMICALS OF POTENTIAL CONCERN

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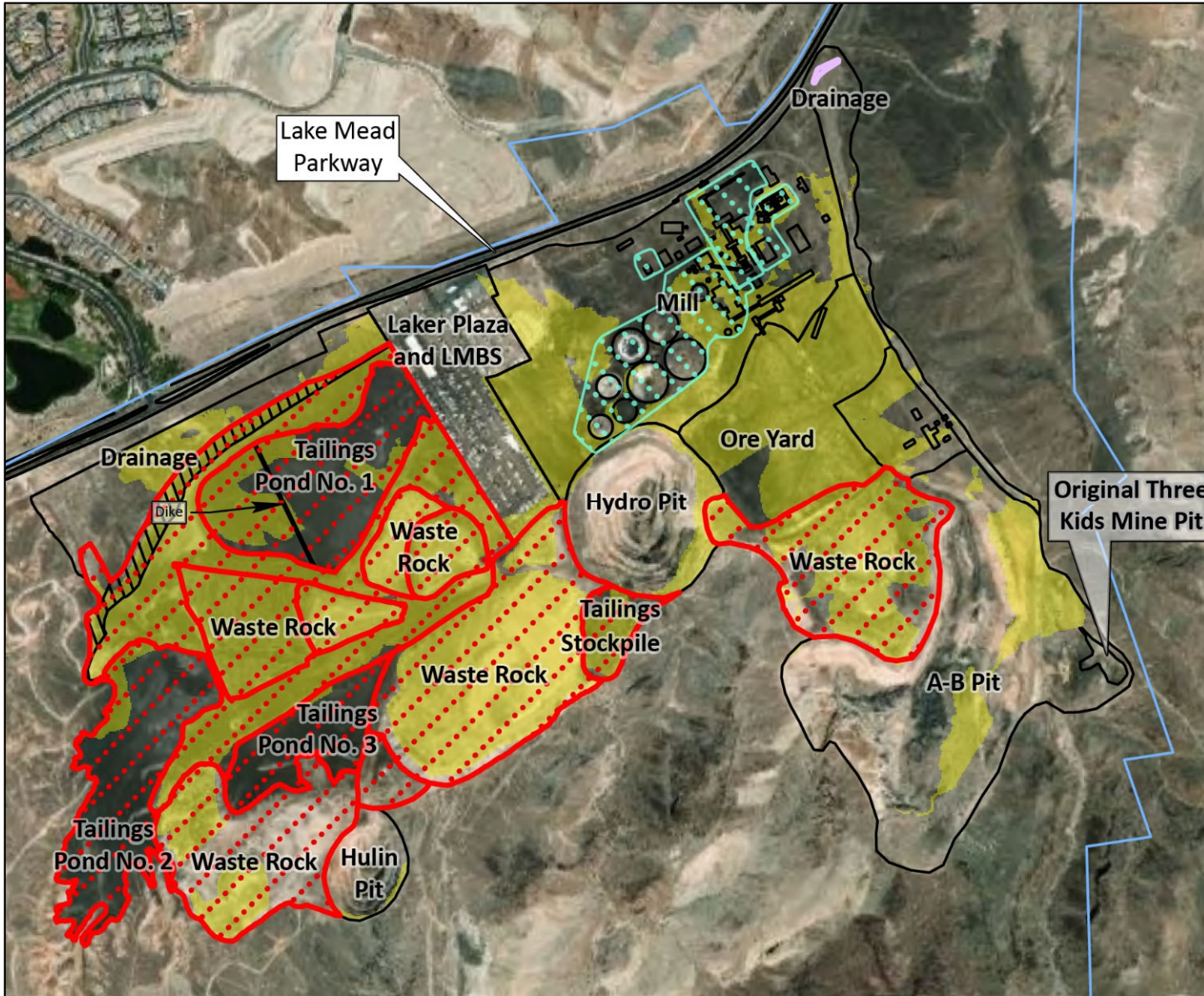
Chemicals of potential concern (COPCs) are contaminants whose concentrations exceed background levels or EPA Regional Screening Levels. COPCs are primarily found in impacted soil and mine wastes, such as tailings and waste rock.






### COPCs at the site include:

- Metals
  - Arsenic
  - Cadmium
  - Lead
  - Manganese
- Petroleum hydrocarbons
- Polycyclic aromatic hydrocarbons (PAHs)
- Asbestos
- Dioxins and hexavalent chromium (in a limited quantity of soil)

**Remedial action is necessary to protect public health and the environment from site contamination.**

# THREE KIDS MINE EXCAVATION AREAS



-  Project area boundary
-  Mines wastes
-  PAH-impacted soil
-  Soil impacted by processing solution release
-  Soil to be excavated to achieve desired grade

# THREE KIDS MINE

## REMEDIAL ALTERNATIVES

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Four remedial alternatives were considered to address mine waste and impacted soil at the site.

These alternatives include:

- Alternative S-1: No action
- Alternative S-2: Consolidate waste, 2-foot cover, offsite asbestos disposal
- Alternative S-3: Consolidate waste, 10-foot cover, onsite asbestos disposal
- Alternative S-4: Consolidate waste, 10-foot cover, offsite asbestos disposal



Detailed descriptions of the remedial alternatives are included in the Proposed Plan on NDEP's website: <https://tinyurl.com/59wf95xb>



# THREE KIDS MINE

## PREFERRED ALTERNATIVE

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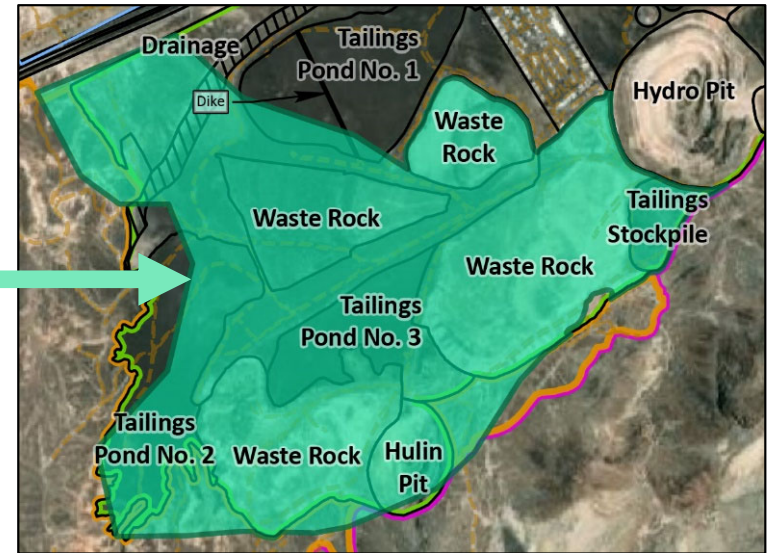
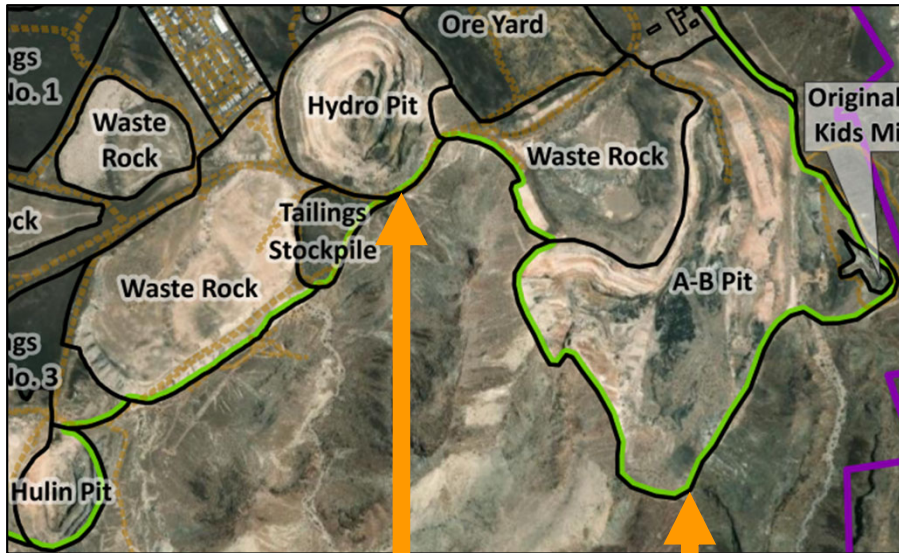
**The current Preferred Alternative for cleanup of the Three Kids Mine site is a combination of Alternatives S-3 and S-4.**

**The Preferred Alternative will meet site cleanup goals and achieve substantial risk reduction by:**

- Taking asbestos and municipal solid waste currently on the surface of the site to an offsite landfill;
- Excavating and consolidating the tailings, waste rock, and impacted soil in the open pits along with concrete from former mine structures;
- Covering the Hydro Pit with an impermeable liner and a minimum of 2 feet of clean soil;
- Covering other disturbed areas of the site with 10 feet of clean soil;
- Grading the site for development; and
- Requiring NDEP approval before any construction activities that will impact soil deeper than 10 feet below ground surface.

# THREE KIDS MINE

## MINE WASTE DISPOSAL LOCATIONS



### Hydro Pit

- Tailings
- Waste Rock
- Impacted Soil

### Hulin Pit

- Waste Rock
- Concrete

### Central Valley Area

- Waste Rock

### A-B Pit

- Waste Rock
- Concrete
- Tailings<sup>(1)</sup>
- Impacted Soil<sup>(1)</sup>

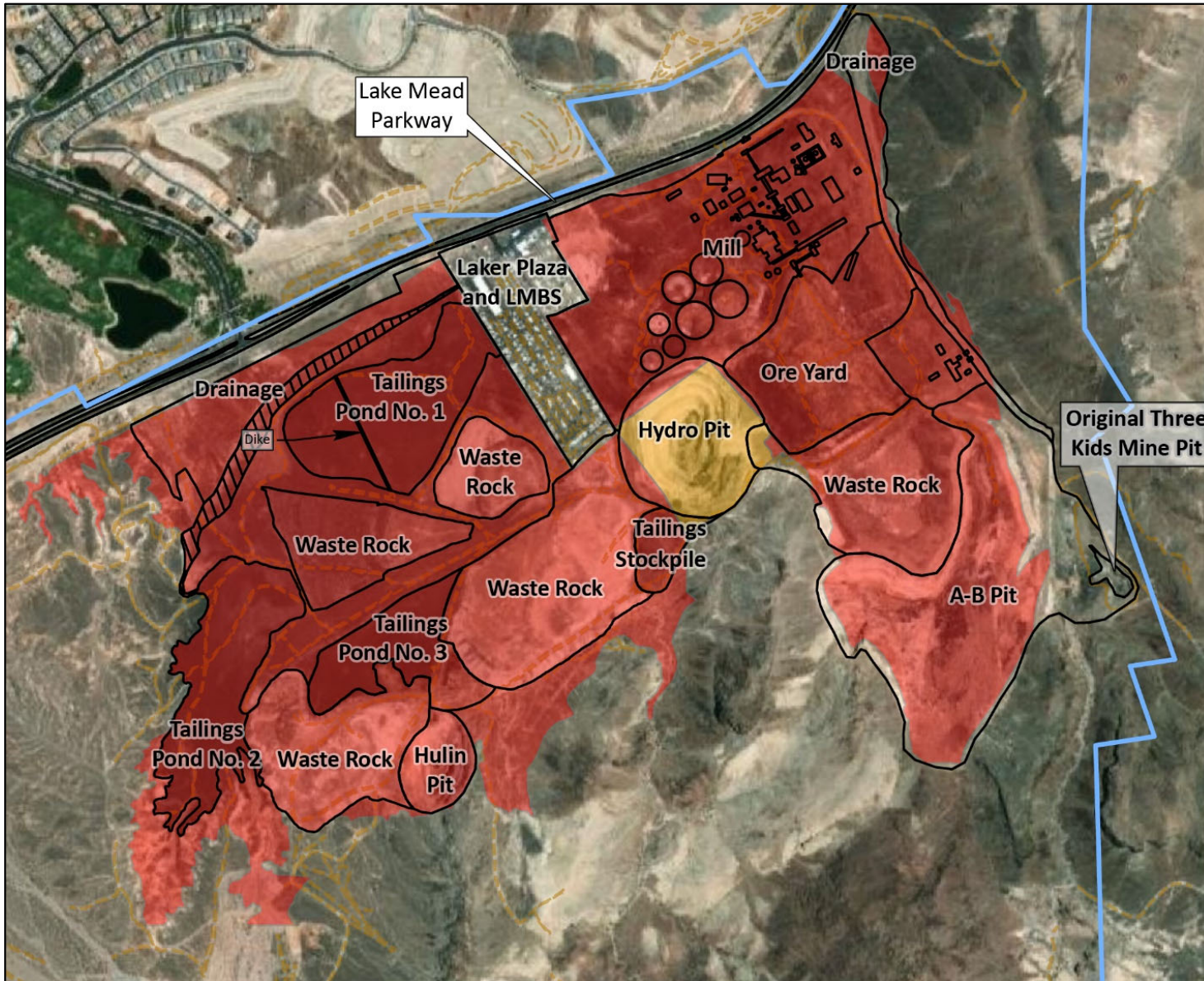
### Offsite Landfill

- Asbestos<sup>(2)</sup>
- Municipal Solid Waste<sup>(2)</sup>

- (1) Tailings and impacted soil that do not fit in Hydro Pit may be placed in A-B Pit.
- (2) Asbestos and municipal solid waste currently in pits will remain in place.
- (3) Soil excavated to facilitate 10-foot cover may be placed in pits and Central Valley Area.

# THREE KIDS MINE

## SOIL COVER

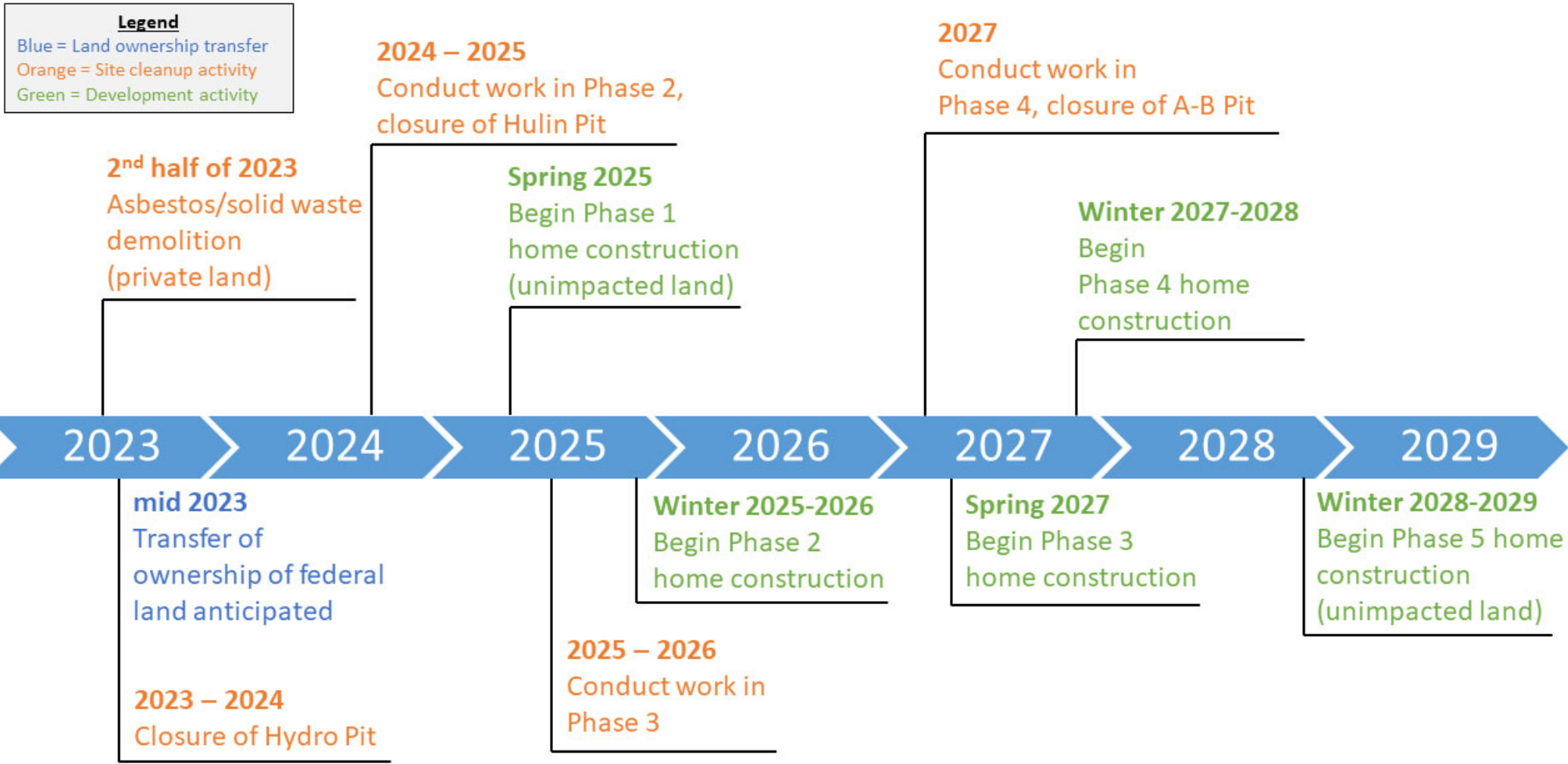


 Project area boundary

 10-foot cover

 Impermeable liner and minimum 2-foot cover

# THREE KIDS MINE CLEANUP AND DEVELOPMENT TIMELINE



# THREE KIDS MINE

## COMMUNITY PARTICIPATION

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NDEP will accept public comments for 30 days following the release of the Proposed Plan. Comments will be accepted by mail or email. Comments will also be accepted during the public meeting. The Preferred Alternative may be modified in response to public comment submitted during the public comment period.

**Public Comment Period**  
February 23 – March 25, 2023

Comments on the Proposed Plan should be submitted to:

Alan Pineda  
NDEP Case Officer  
375 East Warm Springs Road, Suite 200  
Las Vegas, NV 89119  
[alan.pineda@ndep.nv.gov](mailto:alan.pineda@ndep.nv.gov)

# THREE KIDS MINE DEVELOPMENT PHASES



# THREE KIDS MINE

## DUST CONTROL

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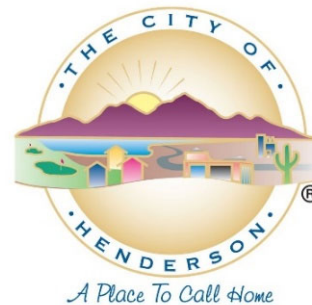
- Dust will be controlled and air quality will be monitored in accordance with Clark County Air Quality Regulations.
- Air sampling devices will be located around the perimeter of the project area, including upwind and downwind of cleanup activities.
- Dust generated by site cleanup and development is expected to be less than the uncontrolled dust that is currently generated by wind and trespassers.
- If you have concerns about dust at the site, you can contact the Clark County Air Quality Complaint Hotline at **(702) 385-DUST (3878)**.



# THREE KIDS MINE COLLABORATIVE EFFORT

Multiple agencies have come together in a public-private partnership with a creative win-win solution to remediate the site. This could serve as a model for the cleanup of other sites across the nation.

## Lakemoor Ventures





# THREE KIDS MINE

## FREQUENTLY ASKED QUESTIONS

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Answers to frequently asked questions are available on NDEP's website: <https://tinyurl.com/jsbejca9>

1. What is the history of the Three Kids Mine?
2. What is happening at the site now?
3. What contaminants have been found at the site?
4. Does the contamination affect groundwater?
5. What will the cleanup process look like and how long will it take?
6. What source of funding will be used to pay for this cleanup, and is there a chance the cleanup is never finished?
7. How will dust be managed during construction?
8. What can I do if I have concerns about dust at the site?
9. How many homes will be built at the site and how long will development take?
10. Will homes be built over the pits?
11. Where is the water for the homes coming from?



# Questions?



## Contact

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**Alan Pineda**

NDEP Case Officer

[alan.pineda@ndep.nv.gov](mailto:alan.pineda@ndep.nv.gov)