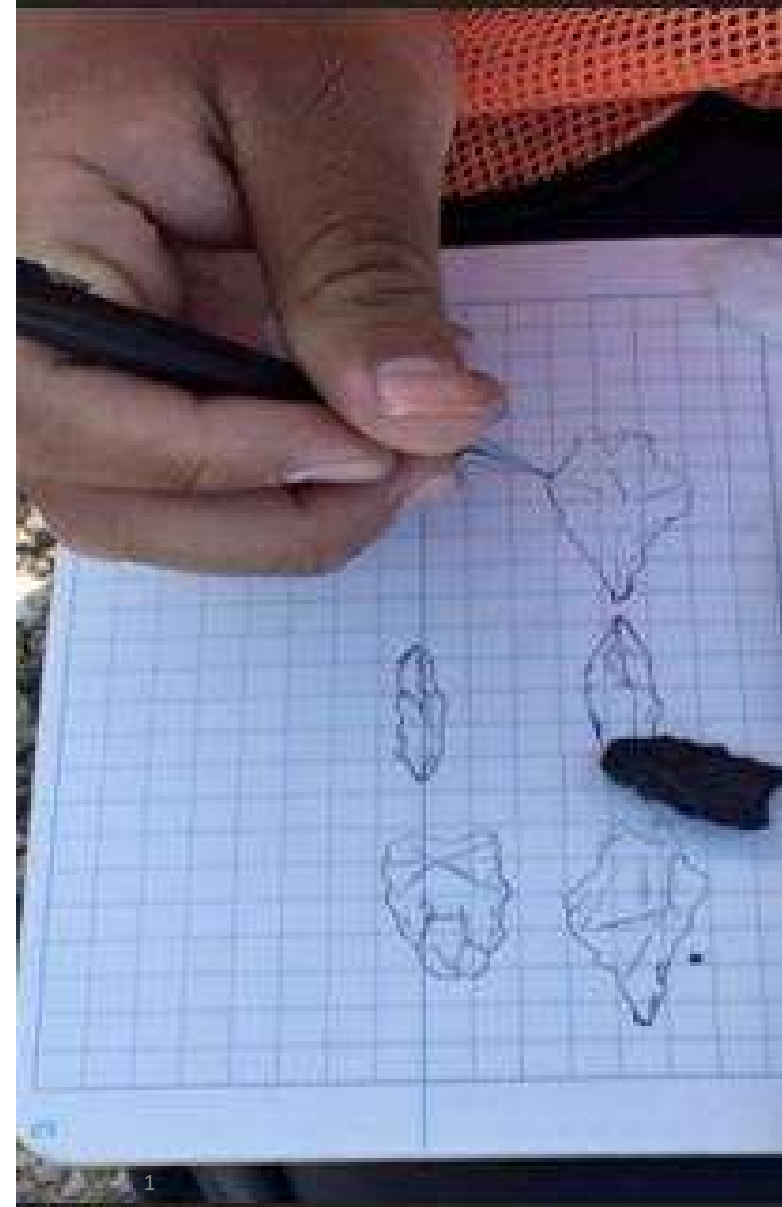


**Incorporating Indigenous
Traditional and Ecological
Knowledge in Cultural
Resource Data Collection for
Improved Consultation,
Coordination and Collaboration**

Willard Antone III, Resolution Copper
Company



U.S. Regulatory Framework on Public Lands: Incorporation of Traditional Indigenous Knowledge into Agency Decision-making

US Forest Service
 organizes and supports
 United Nations
 Declaration on the Rights
 of Indigenous Peoples
 which allows an FPIC
 process aligned with
 UNDRIP during their
 consultation process.

US Forest Service (example): The US Forest Service consultation requirements and authorities are extensive (Executive Orders, Statutes, handbooks, manuals, etc...).

Consultation alone is not enough, and the agency must demonstrate collaboration and coordination with Native American Tribes before agency decisions.

Forest Service personnel should address the elements of the UNDRIP through consultation, collaboration and coordination with Native American Tribes, and by applying their discretion in decision making to protect ancestral sites whenever possible (avoid, minimize, mitigate).

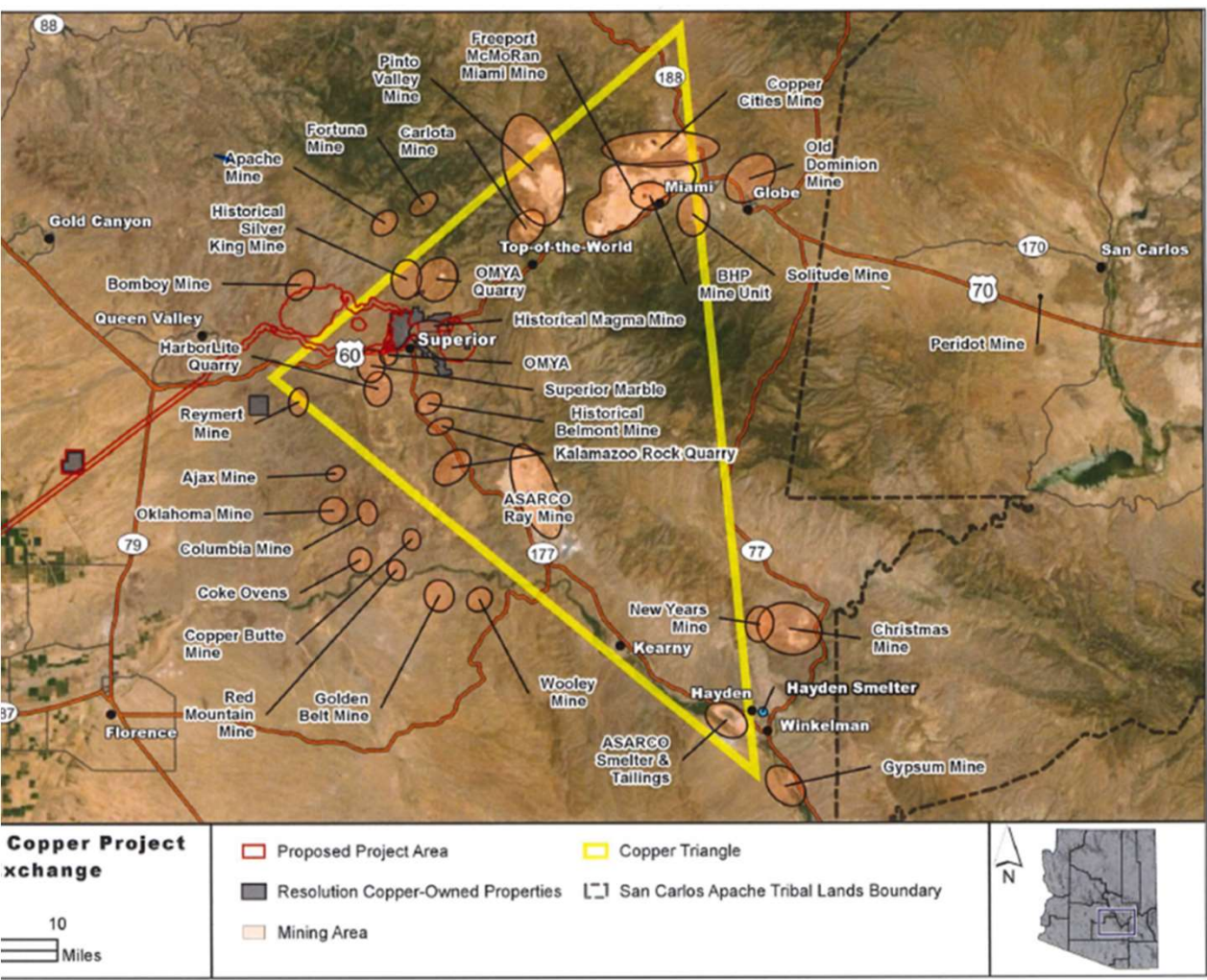
According to the US Forest Service that means:

- Agency officials should consult on terms defined by each tribe (free), early in their decision-making processes (prior) and allow for full information exchange between all involved parties (informal).
- Discussions should lead to, whenever possible, outcomes that are beneficial to Native American Tribes.
- Consent does not mean veto over Forest Service decisions; it does mean application of a good faith effort and that Tribes should have a realistic opportunity to provide input that could change a discretionary decision.

Application: Tribal Monitor Program @ Resolution Copp



Resolution Copper Project: Located in the Copper Triangle – A Century of Copper Mining



Five Native American groups who have ancestral ties to the land on which the project sits, the Akimel O'odham, Hopi and Pueblo of Zuni, the Western Apache and Yavapai people. Within these groups there are 11 separate and distinct Sovereign Native American Tribes with claims to the same area.

the Copper Triangle map

Tribal Monitor Program: Benefits of a Collaborative Approach using TI&EK

Meaningful engagement with Native American tribes as a result the United States Forest Service lead Consultation process on Resolution Copper Project

Tribal Monitor program comprising job training and direct employment was developed by the USFS and Resolution Copper to be responsive of Tribes requests for increased participation on the ground with job training and employment.

Tribal Monitors are the eyes and ears of their elders

Tribal Monitors gain training and employment working alongside trained professionals and at the same time, they record their own perspectives on the landscape covering ancestral sites – seeps, springs, medicinal plants, mineral resources, geologic formation, archaeology.

The information is communicated to Tribal community elders and the USFS to inform decisions on the Resolution Copper EIS.

Outcome: Informed Decision-Making

Improved information exchange and understanding lead to major changes to the location of project facilities (tailings pipelines, roads, power) avoiding hundreds of ancestral sites.

Connecting Tribal Members to their Past

Baseline Survey Work emphasizes the Special Relationships and Connections to Land



Water Features
Seeps
Springs



Rock Formations
Minerals



Ancestral sites



Medicinal Plants
Animals

Connecting Tribal Members to their Past and their Elders In their Own Words



te News

are a voice for our elders. We help protect what is sacred to us by working together and sharing our native knowledge as stewards of the land.”

as Alvarez, Gila River Indian Community



“It has opened a whole new perspective on being Apache. I have come to respect what cultural and traditional values mean; why our native people should have a voice.”

Jacob Henry White Mountain Apache tribe



Elders Tour

Headlines of Achievement

2018 “Tribal Members Trained
Hired to Hunt for Resources of
Cultural Value”

[www.usda.gov/media/blog/2018/04/13/tribal-
members-trained-and-hired-hunt-resources-cultural-value](http://www.usda.gov/media/blog/2018/04/13/tribal-members-trained-and-hired-hunt-resources-cultural-value)

2018 “With savvy and sensitivity,
tribal monitors help preserve sacred
resources”

[azcentral.com/story/news/local/arizona/2018/05/11/
tribal-monitors-work-forest-service-identify-sacred-
resources/67002/](http://www.azcentral.com/story/news/local/arizona/2018/05/11/tribal-monitors-work-forest-service-identify-sacred-resources/67002/)

tribal members from 7 Native
tribes currently working
full time - Hired full time
at WestLand Resources

continues the program on
public lands; Committed to an
agreement

new partnerships in process



TRIBAL MONITOR
Newsletter December 2020

2020 Accomplishments
Despite the shutdowns and restrictions imposed by COVID 19, tribal monitors surveyed more than 26,000 acres in 2020 for the Resolution Copper project, the Emory Oak Collaborative Restoration Initiative, and branched out to include projects on private land. They also participated in archaeological data-recovery and survey projects, plant surveys, and collecting baseline botanical data for the Emory oak research.

We are especially proud of the 2020 Arizona Governor's Archaeology Advisory Commission's Award for Public Archaeology by a Government Agency that was awarded to the Tonto National Forest for the Tribal Monitor Program!

Training & Capacity Building
TMs received refresher training thanks to CARES Act funding, and various online training modules. These included:

- GPS/GIS
- Occupational Safety (OSHA) and Mine Safety (MSHA) training
- Off Road 4x4 driving
- National Historic Preservation Act
- National Environmental Policy Act
- Botanical monitoring data collection

They also assisted WestLand Resources LLC. in developing procedures to inventory plant and other natural resources at Oak Flat. Hopi TM, Selwyn Selina, expanded his skillset to include conducting Phase 1 Environmental Site Assessment reports to document potential environmental hazards.



Read all about it!!!
The TM Program is featured on the Arizona State Parks & Trails website [Arizona State Parks and Trails website](http://ArizonaStateParksandTrails.com) and in a podcast with Nanebah Lyndon and LeRoy Shingoitewa: [Arizona State Parks and Trails Podcast \(google.com\)](https://www.google.com/podcasts?hl=en&feed=arizona-state-parks-and-trails-podcast) or [Arizona State Parks and Trails Podcast, Arizona's Tribal Monitor Program on Apple Podcasts](https://www.apple.com/podcasts?hl=en&feed=arizona-state-parks-and-trails-podcast)

The program was also profiled in *Mining People*, a mining trade journal: ["New Program Gives Tribes a Voice Before Mining" 6/18/20](https://www.miningpeople.com/story/new-program-gives-tribes-a-voice-before-mining/671820)

From left, Gaylen Tinsley, Archaeologist and Crew Chief; Bernadette Carra, Ak-Chin TM; Daniel McNair, Botanist; and Rachel Evans-Beauty, Yavapai-Apache Nation TM.




Shanelle Sakeva, Hopi Tribe, documents petroglyphs.

TRIBAL MONITOR
Newsletter


Sharing the Good News
Presentations about the TM Programs were made at two conferences in March 2020: Jacob Henry, White Mountain Apache, Cibecue District, presented at the Tri-National Sonoran Desert Conference, and Rachel Evans Beauty and Dawn Rocha from the Yavapai-Apache Nation, Joaquin Leonard from the Hopi Tribe, and Lance Wells from the Gila River Indian Community, presented at the Sonoran Desert Tri-National Conference. Bernadette Carra discussed the program with the 4 Southern Tribes' Cultural Committee in July.

From left, LeRoy Shingoitewa, Hopi Tribe, and Eldred Quam and Gilbert Yuselew from the Pueblo of Zuni.



In Memory
This year the Tribal Monitors mourn the loss of their endeared and respected colleague Eldred Quam. Eldred was a long-time member of the Zuni Cultural Resources Advisory Team. He joined the Tribal Monitors in January of 2018. Over the years he had become an invaluable member of the team cherished for his traditional knowledge, love of his culture, and kind soul.

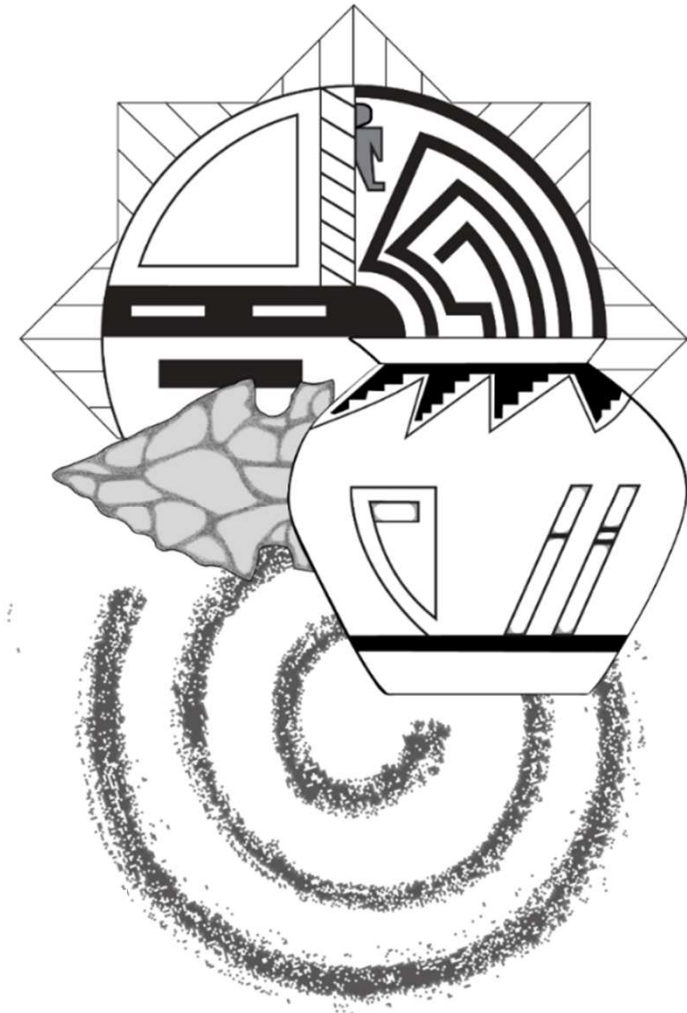
For More Information about the Forest's TM Program, contact Nanebah Lyndon, Nanebah.ncl@usda.gov



Global Monitor Program Shows
that Collaboration and
Meaningful Partnerships
formed by IT & EK can result
in Productive Outcomes



Thanks



SWCA®