

OFFICE OF THE
ARIZONA STATE MINE INSPECTOR

JOE HART



ONE-HUNDRED and ONE
ANNUAL REPORT
for the
CALENDAR YEAR 2012

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ANNUAL MESSAGE FROM
JOE HART
ARIZONA STATE MINE INSPECTOR



The Mission of this agency is to ensure the health and safety of people working at mines, coordinate the closure of abandoned mines on state and private land posing a threat to public health and safety, and to ensure that lands used for mining are properly reclaimed for public use once mining is completed.

The State Mine Inspector is a statewide elected constitutional officer and the director of the Office of the State Mine Inspector. The Office of the State Mine Inspector was established by the Constitution of the State of Arizona, Article XIX. This agency enforces statutes, rules, and regulations applicable to mine safety, health, and land reclamation under ARS Title 27 Minerals, Oil and Gas and Arizona Administrative Code Title 11 - Mining.

The agency helps ensure miner safety by inspecting work conditions and practices at active mining operations; investigating mine accidents, employee and public complaints about mine safety; and by conducting federally certified miner and instructor safety training. To protect the public against the dangers of abandoned mines, the agency investigates and inventories abandoned mine sites, evaluates their threat to public health and safety, coordinates securing or closure of those that are found to be dangerous, and promotes public safety regarding abandoned mines by "Stay Out Stay Alive" promotions, presentations and publications; complaint investigations and mine owner ARS 27-318 compliance notifications. Finally, the agency administers reclamation plans and assurances by enforcing the Mined Land Reclamation laws, rules and regulations for the restoration of disturbed lands to a safe and stable environmental condition.

Program Summary

The Arizona State Mine Inspector's (ASMI) Mine Safety Enforcement Program regulated a total of 948 Health & Safety Mines and Contractors during 2012; 615 of the mining operations and 44 of the contractors were inspected which resulted in a 92% inspection rate for the mines and a 15% inspection rate for the contractors on the mine sites. The Arizona Revised Statutes 27-124 requires all active mines be inspected annually. The agencies goal is to have Zero Fatalities and Zero Accidents at Arizona Mines. In 2012, one fatal accident at an active mine was reported and investigated by the Arizona State Mine Inspector's Office. The Arizona NFDL (non-fatal days lost time) rate was 1.4 per 200,000 hours of work and the National NFDL rate was 1.8 per 200,000 hours of work. The Inspections department issued 436 notices of violations; no cessation orders were required during 2012. ASMI Inspector's investigated 4 employee and citizen complaints, issued 32 mine elevator operating permits and 86 underground diesel equipment operating permits. Mine operations under ASMI's jurisdiction include asphalt hot plants and concrete batch plants on mine properties, aggregate and decorative rock operations, quarries and processing plants; underground and open pit mines, mills, solvent extraction-electro winning plants, smelters, refineries, and rod plants. ASMI also inspects contractor's working at mine sites.

The Education and Training Program certifies MSHA instructors, develops lesson plans, conducts classes, and organizes safety conferences for mine safety education and training. The emphasis is placed on miner's rights and current health and safety regulations in compliance with the Federal Mine Safety and Health Act of 1977, Title 30 CFR, Part 46, 47, 48, 49, 56, 57, 58 and 62.

In addition, mine company employees, contractors, vendors and others who are regularly exposed to mine hazards at mine properties are required to have various levels of training provided by the Education and Training division. During 2012, 3331 certificates were issued to mine workers and contractors for completion of safety courses.

The Abandoned Mines Safety Program efforts fall into two categories; the inventory of abandoned mine sites and the administration of the securing, remediation, and closure of abandoned mines. Field surveys locate mines within the 72,931,840 acres that comprise the State of Arizona. This survey records the exact location of abandoned mines using a global positioning satellite system. The inventory's objective is to produce an accurate count of abandoned mines, and describe the significant safety hazards and potential environmental hazards occurring with them. About 10,000 abandoned mines have been inventoried since the program was initiated in the early 1990's and over 4555 of these have been evaluated and assessed for the risks they may pose. The database of surveyed abandoned mines is used to provide for the prioritization of significant public and environmental hazards for remediation and reclamation planning. The inventory also allows the agency to accurately investigate public concerns and complaints, about abandoned mines in a timely manner. An abandoned mine might be a risk to public health and safety, but also may be used for criminal activities. The program assists law enforcement investigations of any known or suspected criminal activity. The administration

of securing abandoned mines first prioritizes sites listed in the inventory based on the severity of the threat posed to public and environmental safety. Through this prioritization, structures are designed as necessary for abandoned mine closures on state lands. The cost of field construction work to secure these mines is provided by the Abandoned Mine Safety Fund through mining industry donations, private citizen donations, and a matching appropriation from the legislature. The program performs regular monitoring to assure mine closures remain in good condition. The program coordinates identifying and securing abandoned mines with local, state, and federal agencies as well as other states, entities and volunteer groups. Groups include the Yuma County Sheriff's Search and Rescue Group, the Maricopa County Sheriff's Office Mountain Search and Rescue Group, Arizona Geological Survey, Maricopa County Parks, Arizona State Land Department, Arizona Game and Fish, Arizona State Historic Preservation Office, Arizona Department of Environmental Quality, Department of Labor Mine Safety and Health Administration, Bureau of Land Management, U.S. Forest Service, Environmental Protection Agency, Western Governors Association, Bat Conservation International and the National Association of Abandoned Mined Land Programs, which is comprised of 27 states and three Indian Tribes.

The Mined Land Reclamation Program approves or rejects mine reclamation plans and financial assurance mechanisms submitted by all metalliferous mining units, aggregate mine operations, and exploration operations with surface disturbances greater than five acres. Beginning January 2007, aggregate mining operators were required to submit reclamation plans for the first time, increasing the workload in this area by over 250 plans. Annual report submittals and reviews along with on-site inspections of the regulated mines are a part of the continual monitoring process to establish compliance to the Mined Land Reclamation laws, rules and regulations. These inspections will be coordinated with health and safety inspections to ensure an efficient and effective inspection program, working in cooperation with mining companies, consultants, and other state and federal governmental agencies,

Our team of experienced mine safety professionals strive to continually improve programs and services of the Agency so Arizona will be not only a leader in mining production, but in SAFE PRODUCTION as well.

Arizona State Mine Inspector

Date

MINE SAFETY ENFORCEMENT

During the calendar year of 2012, the inspection team performed 659 health and safety inspections, which identified 436 violations of the mining code for corrective actions by the mine operators. No Cessation Orders were issued to mine operators in 2012.

Types of Operations	No. of Inspections	No. of Violations	Average No. of Employees	No. of Mines & (Listed Contractors)
Surface Metal Mines, Mills, SX-EW Plants, Smelters, and Refineries	90	108	8620	67
Rock Products, Sand & Gravel, Pits, Quarries, Batch and Hot Plants	499	302	2117	583
Underground Mines	26	11	259	15
Contractor Totals	44	15	N / A	(283)
Mine Totals				665
TOTALS	659	436	10,996	948

In addition to mine safety and health inspections, ASMI investigated complaints related to safety and health issues in mines and performed inspections of underground diesel equipment, elevators, and new electrical equipment installed in mines where permits are required.

- Annual Elevator Inspections with Permits Issued 32
- Underground Diesel Equipment with Permits Issued 86
- Citizen Complaints Investigated 3
- Employee Complaints Investigated 1
- Interagency Complaints from referrals 2
- Electrical Equipment Installations 3
- Non Inspection Visits 28
- Cessation Orders Issued 0

Combined efforts of mine operators with the agency's mine safety enforcement, education and training programs provide significant tools to reduce and control the accident frequency for Arizona's mining industry. Incident rates from U.S. Department of Labor reports for NFDL (non-fatal days lost time) accidents for metal, non-metal, sand and gravel

mines, and mills are shown in the table below. Incident rate is the number of NFDL accidents per 200,000 employee-hours worked.

LTIR / NFDL	2008	2009	2010	2011	2012
National Accident Incidence Rate	2.3	2.0	1.9	1.8	1.8
Arizona Accident Incidence Rate	3.0	2.2	1.9	1.8	1.4

LOST TIME ACCIDENTS IN 2012

Type	Company	Mine	LT Accidents
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Overexertion

	Asarco, Inc.	Hayden	1
	Asarco, Inc.	Silver Bell	2
	Asarco, Inc.	Mission	1
	Freeport McMoran	Bagdad	2
	Freeport McMoran	Morenci	3
	Freeport McMoran	Miami	1

Struck By or Against

	Asarco, Inc.	Hayden	3
	Asarco, Inc.	Silver Bell	2
	Cemex	Gray Mountain	1
	Freeport McMoran	Bagdad	2
	Freeport McMoran	Morenci	3
	Freeport McMoran	Sierrita	2
	Major Drilling / Resolution	Superior	1

Contact With or By

	Asarco, Inc.	Mission	4	
	Freeport McMoran	Bagdad	2	
	Freeport McMoran	Miami	4	Freeport
	McMoran	Morenci	2	
	Freeport McMoran	Sierrita	1	
	Mineral Park Inc.	Mineral Park	1	

Caught On or In or Between

Freeport McMoran	Bagdad	1
Freeport McMoran	Morenci	2
Bridgestone Tire / FMI	Sierrita	1

Fall from the Same Level or Below

Asarco, Inc.	Hayden	1
Asarco, Inc.	Mission	1
Asarco, Inc.	Silver Bell	3
Clarkdale Metals	Clarkdale	1
Durus Industrial / Asarco	Hayden	1
Freeport McMoran	Bagdad	2
Freeport McMoran	Morenci	3
Freeport McMoran	Miami	2
Freeport McMoran	Sierrita	1

Exposure or Occupational Illness

None Reported

FATAL ACCIDENTS

In 2012, one fatal accident at an active mine was reported and investigated by the Arizona State Mine Inspector's Office.

On September 22, 2012 at approximately 2:40pm Mr. Jon Vanoss, a 34 year old male from Globe Arizona was fatally injured while employed for Tetra Tech Construction Inc. a Contractor at the BHP Pinto Valley Mine, Miami Arizona. Mr. Vanoss was employed as a laborer with six days of employment.

The fatal injury occurred at the BHP Secondary Crusher which was undergoing maintenance for restarting operations. Mr. Vanoss was posted as a fire guard on the fourth floor of the building, after a lunch break, fellow employees noticed; Mr. Vanoss was not at his post. After a search Mr. Vanoss was found to have fallen through a tertiary screen chute a distance of thirty feet onto a conveyor belt. Mr. Vanoss was pronounced at the scene.

2012 Operating Mines in Arizona by County

The following pages contain operating mines, plants and smelters considered active in 2012. These figures represent some 665 operating units with over 10,996 workers.

Registered Mining Companies by County and Type

Apache	Company	Mine / Plant Name	Type	Product
	Alpine Excavation & Construction	Alpine Dump	Aggregate Plant	Aggregates
	Apache County Engineering	Concho Gravel Pit	Aggregate Plant	Aggregates
	Apache County Engineering	Stanford Pit	Cinders	Cinders
	Apache County Engineering	Davis Pit	Open Pit Mine	Aggregates
	Arizona Silica Sand Co.	Houck Operations	Open Pit Mine	Sand, Industrial
	C & C Cinders	C & C Cinders	Cinders	Cinders
	Hall n Aggregate Trucking & Materials	Hall Pit	Aggregate Plant	Sand & Gravel
	Highland Trucking & Excavation	Highland Pit	Aggregate Plant	Aggregates
	Rusty Wright Enterprises	Alpine Dump Pit	Aggregate Plant	Aggregates
	Spring Mountain Materials	Spring Mountain		Cinders
	Sug Rogers Construction LLC	Dump Pit # 2	Surface	Aggregates
	Town of Eager	Eager Cinder Pit	Cinders	Cinders
	White Mountain Rock Products	Barth Pit	Aggregate Plant	Aggregates
	White Mountain Rock Products	Richville Pit	Aggregate Plant	Aggregates
Cochise	Company	Mine / Plant Name	Type	Product
	American Rock Products LLC DBA JC Rock	Johnson CAMP MINE	Open Pit Mine Aggregate	Rip/Rap
	Bray Construction, Inc. Cantera Materials fka Huachuca Concrete, Inc. dba AzConAgg	PC 1 / PC 2	Plant	Sand & Gravel
	Cantera Materials fka. Huachuca Concrete, Inc. dba AzConAgg	Kino Batch Plant	Batch Plant	Concrete
	Cemex USA	Kino Pit Plant 229 Sierra Vista	Aggregate Plant	Sand & Gravel
	Cemex USA	Plant 229 Sierra Vista	Batch Plant Aggregate Plant	Concrete
	Combs Materials, LLC. fka Sierra Materials LLC. aka Vista Materials	Sierra / Vista Pit	Aggregate Plant	Aggregates
	Copreco LLC.	Copreco LLC.	Bio Sulfide Plant	Copper

Cross Spear Limestone LLC. fka Cross Spear Marble, Inc. Empire Homes, Inc. Freeport McMoran Copper & Gold Bisbee	Cross Spear Pit Maya Pit	Quarry Surface	Marble Sand & Gravel
Golder Fame (USA) Inc.	Copper Queen Gold Ridge (Gold Prince)	Reclamation Exploration Aggregate Plant	Copper Gold Sand & Gravel
Granite Construction Company	Babocomari Pit Babocomari Asphalt Plant	Asphalt Plant	Asphalt
Granite Construction Company Huachuca Concrete, Inc. dba AzConAgg	Ocotillo Batch Plant	Batch Plant Aggregate Plant	Concrete Aggregates
Granite Construction Company Huachuca Concrete, Inc. dba AzConAgg	Ocotillo Pit	Aggregate Plant	Aggregates
Klump Ranches LLC Lhoist North America dba Chemical Lime Company of Az	Luzena Quarry	Quarry Aggregate Plant	Lime
Maddux & Sons, Inc.	Douglas Plant Leslie Canyon Plant	Quarry Aggregate Plant Aggregate Plant	Aggregates Aggregates
Maddux & Sons, Inc.	Snure Pit Leslie Canyon Batch Plant	Aggregate Plant Aggregate Plant Aggregate Plant	Aggregates Aggregates
Maddux & Sons, Inc.	Bingham Pit Johnson Camp Oremus	Plant SX-EW Plant	Aggregates COPPER
Maddux & Sons, Inc. Nord Resources Corp.	Huachuca Prospector 3	Surface	Concrete Gold & Silver
Oremus Materials Inc. Prospectors 3 LLC Samoht Rock & Sand, LLC / Oldcastle Architectural Products dba Young Block	Samoht Rock & Sand Grim Grim Texas Canyon Rock & Sand	Aggregate Plant Wash Plant Batch Plant Aggregate Plant Aggregate Plant	Aggregates Sand & Gravel Concrete Aggregates
Strong Hold Redi-Mix Strong Hold Redi-Mix			
Texas Canyon Rock & Sand			
Tombstone Materials Inc. UOP Molecular Sieve	Emerald Pit Bowie Operation	Aggregate Plant Open Pit Mine Aggregate Plant	Aggregates Chabazite Clay Sand & Gravel
Willcox Rock & Sand Willcox Rock & Sand Willcox Rock & Sand	Riggs Pit Riggs Pit Outerspace Pit	Batch Plant Aggregate	Concrete Sand & Gravel

Coconino Company

**Mine / Plant
Name**

Type

Product

A-Rock	Grey Mountain Pit	Aggregate Plant	Sand & Gravel
Alberto Ayala Company	Ayala Blue Bird	Quarry	Flagstone
Allen Grantham	Grantham Pit	Cinders	Cinders
Arizona Tufflite, Inc.	White Vulcan & More Sand Mines	Open Pit Mine	Pumice

Blaser Corp. dba American Sandstone aka Cornerstone Materials LLC Canipe Trucking Cemex USA	Golden Buckskin-Drake Blue Bird Sheep Hill Plant # 337 / Gray Mountain UM Plant # 336	Surface Open Pit Mine Aggregate Plant	Sandstone Flagstone Cinders Aggregates
Cemex USA	Sunset Crater-McCormick Wildcat Hill Pit Sheep Hill Mills Quarry Diamond 7 Red Diamond 7 Oak Roeder Quarry / Redbird Quarry /	Aggregate Plant Open Pit Mine Open Pit Mine Quarry Quarry Quarry	Sand & Gravel Cinders Cinders Flagstone Flagstone
Cemex USA Coconino Cinders Sales Coconino County Public Works Cornerstone Materials LLC Drake Stone Drake Stone	Billy 1&2 Armstrong Rose Yellow Buck Quarry-Ash Fork Antolini Red Quarry-Ash Fork Blue	Quarry Quarry Quarry	Flagstone Flagstone Flagstone
Dunbar Stone Dunbar Stone	Quarry-Ash Fork Antolini Red Quarry-Ash Fork Blue	Quarry Quarry	Flagstone Flagstone
Dunbar Stone	Quarry-Ash Fork Blue	Quarry	Flagstone
Dunbar Stone Dunbar Stone Dunbar Stone Dunbar Stone Espee Cinder Pit Energy Fuels Resources USA	Moon/Mattahorn Corva Canyon Straight Arrow Yellow Wasp Perrin Pit Canyon	 Sandstone Sandstone Sandstone Quarry Underground Aggregate Plant	Flagstone Flagstone Flagstone Flagstone Cinders Uranium
Fann dba Q-Max Co.	Red Lake Quarry Fisher Pit 1A & A1 Hammond Oak / Buff Hammond Stone Mountain Quarry Appletree Quarries-Drake Oak Quarry Million \$ Buff formerly Peach Quarry	 Open Pit Mine Quarry Quarry Quarry Quarry Quarry Quarry Quarry Quarry	Sand & Gravel Sand & Gravel Flagstone Flagstone Flagstone Flagstone
Flagstaff Concrete Products, LLC.	Hammond Oak / Buff Hammond Stone Mountain Quarry Appletree Quarries-Drake Oak Quarry Million \$ Buff formerly Peach Quarry	Quarry Quarry Quarry Quarry Quarry Quarry Quarry	Flagstone Flagstone Flagstone Flagstone
Hammond Wholesale Flagstone Hammond Wholesale Flagstone	Quarries-Drake Oak Quarry Million \$ Buff formerly Peach Quarry	Quarry Quarry	Flagstone Flagstone
Harley Gray Stone Harley Gray Stone	Quarries-Drake Oak Quarry Million \$ Buff formerly Peach Quarry	Quarry Quarry	Flagstone Flagstone
Howard Gray Stone LP's Excavating Miller Mining Northern Arizona Materials Pryor Clinger Properties, LLC (Flagstaff Concrete Products, LLC) Recyclable Resources Inc. Red Pit Inc. Star Stone Quarries aka American Stone	LP's Cinders Miller Pit Brothers Mine Kincanon One Pit Monterola Quarry Red Pit Crookton / Stone Mountain Classic Oak Quarry-Ash Fork Lizard Group	Quarry Quarry Open Pit Mine Open Pit Mine Open Pit Mine Surface Open Pit Mine Quarry Quarry	Flagstone Cinders Cinders Cinders Sand & Gravel Aggregates Cinders Flagstone Flagstone
Stoneworld Stoneworld	Quarry-Ash Fork Lizard Group	Quarry Quarry	Flagstone Flagstone

Stoneworld Superlite Block	JR Rosa Quarry- Ash Fork Darling/Winona	Quarry Open Pit Mine	Flagstone Cinders
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Gila	Company	Mine / Plant Name	Type	Product
	ASARCO, Inc	ASARCO Mine Hayden Hayden	Surface	Sand & Gravel
	ASARCO, Inc. ASARCO, Inc.	Concentrator Hayden Smelter Pinto Valley /	Mill Smelter	Copper Copper
	BHP Copper, Inc. Carlota Copper	Miami Operations Carlota Copper	SX-EW Plant Surface Aggregate	Copper Copper
	Cemex	Globe Plant 601	Plant	Aggregates
	Cemex	Globe Plant # 601 / Nugget Pit	Aggregate Plant	Sand & Gravel
	Cemex	Globe Batch Plant 601	Batch Plant	Concrete
	Cemex	Globe Hot Plant 601	Hot Plant	Asphalt
	Freeport McMoran Copper & Gold Miami	Rod Plant	Rod Plant	Copper
	Freeport McMoran Copper & Gold Miami	Smelter Mine,	Smelter	Copper
	Freeport McMoran Miami, Inc. Gila Concrete LLC, formerly, Gila Redi-Mix,	SX/Tankhouse	SX-EW Plant Aggregate Plant	Copper Granite/Decorative Stone
	Goat Creek Mining	Slate Creek Pit Goat Creek Star Valley	Aggregate Plant Aggregate Plant	Granite/Decorative Stone
	Hunt Materials	Hunt Pit Young Batch Plant	Aggregate Plant	Aggregates
	Hunt Materials	Red Select Quarry aka Pine Quarry	Batch Plant	Concrete
	Payson Concrete & Materials		Aggregate Plant	Aggregates
	Payson Concrete & Materials	Payson Plant	Aggregate Plant	Aggregates
	Payson Concrete & Materials	Tonto Basin Pit Tonto Basin	Aggregate Plant	Aggregates
	Payson Concrete & Materials	Batch Plant Payson Batch Plant	Batch Plant	Concrete
	Payson Concrete & Materials Payson Concrete & Materials	Payson Hot Plant	Batch Plant Hot Plant	Concrete Asphalt
	R & H Boulders	R & H Mine	Screening Plant	Granite/Decorative Stone
	Star Valley Granite	Star Valley Granite	Aggregate Plant	Granite/Decorative Stone

Graham	Company	Mine / Plant Name	Type	Product
	Brimhall Sand Rock & Building Materials	Bryce Rocky Field	Aggregate Plant	Aggregates
	CKC Construction	Airport Pit	Aggregate Plant	Sand & Gravel
	CKC Construction	Airport Batch Plant	Batch Plant	Concrete
	CKC Construction	Airport Hot Plant	Hot Plant	Asphalt
	Freeport McMoran Copper & Gold Safford	FMI Safford Operations	Surface Aggregate Plant	Copper
	J. T. S. Construction Inc. Korwin Inc.	Daley Pit	Plant	Sand & Gravel
	Matthewsville Sand & Gravel	ONE TRACK	Open Pit Mine	Aggregates
	Roadrunner Ready Mix, Inc.	Rowley Lone Concrete & Gravel	Plant	Aggregates
	Smith & Bell Construction	Graham Pit	Aggregate Plant	Sand & Gravel
	Smith & Bell Construction	Graham Batch Plant	Batch Plant	Concrete
	Tri County Materials	Morris Pit # 1	Aggregate Plant	Aggregates
	Tri County Materials	Morris Pit #1	Plant	Aggregates
	Tri County Materials	Safford	Hot Plant	Asphalt
	Tri County Materials	Safford	Hot Plant	Asphalt
	Tri County Materials	Batch Plant	Batch Plant	Concrete

Greenlee	Company	Mine / Plant Name	Type	Product
	Freeport McMoran Copper & Gold Morenci	Morenci Hydro-Met SXEW	Open Pit Mine	Copper
	Freeport McMoran Copper & Gold Morenci	Morenci Mine	Open Pit Mine	Copper
	Oakcreek Sand & Gravel	Old Virden	Aggregate Plant	Aggregates
	Greenlee County	Highway Pit	Aggregate Plant	Aggregates
	TDAM LLC.	Virden Pit	Plant	Sand & Gravel
		Broken Back Mine	Surface Placer	Gold

La Paz	Company	Mine / Plant Name	Type	Product
	Bonanza Explorations Inc. Dobbins & Dobbins	Dobbins	Underground Mine	Gold
	Golconda Mine, LLC	Golconda Mine	Open Pit Mine	Aggregates
	La Paz County Public Works	Vicksburg Pit	Underground Mine	Gold
			Aggregate Plant	Aggregates

La Paz County Public Works Mineral Aggregate Recycling Service	Cibola Pit	Aggregate Plant	Aggregates
Murphy Landscaping dba Rio Del Monte Mine	Ehrenberg Pit Rio Del Monte Mine	Aggregate Plant	Aggregates
Pioneer Landscaping Materials, Inc. dba Pioneer Sand Co. Plomosa Placers LLC	Quartzsite Pit Gold Rock	Aggregate Plant Placer Aggregate Plant	Decorative Stone Decorative Stone Gold
PWC Pilot West Corp PWC Pilot West Corp PWC Pilot West Corp	Double J Batch Plant Hot Plant	Batch Plant Batch Plant Hot Plant Aggregate Plant	Aggregates Concrete Asphalt
Q Mountain Rock & Sand	Q-Mountain Copper Chief Mine	Aggregate Plant	Sand & Gravel
Sunset Marble Company, LLC.		Aggregate Plant	Decorative Stone

Maricopa	Company	Mine / Plant Name	Type	Product
	ABC Sand & Rock ABC Sand & Rock Co., Inc. American Materials Group LLC	Camelback Road Pit ABC Plant #2 Glendale Plant	Aggregate Plant Surface Batch Plant Aggregate Plant	Sand & Gravel Sand & Gravel Concrete
	American Sand & Rock	Cat Claw Mine Plant #4 -		Decorative Stone
	Arizona Materials LLC.	Buckeye Plant # 7	Surface	Sand & Gravel
	Arizona Materials LLC. Arizona Materials LLC. Arizona Materials LLC.	Glendale Plant #5 Val Vista Plant #6 Hatfield Batch plant # 1 -	Cement Plant Batch Plant Batch Plant	Concrete Concrete Concrete
	Arizona Materials, LLC.	43rd Ave. Plant # 1 - 43rd Ave.	Batch Plant Aggregate Plant	Concrete
	Arizona Materials, LLC. Arizona Metro Mix Arizona Natural Gold Excavation and Reclamation Inc.	Plant 2- Glendale Apache Gold Boulder Mine	Batch Plant Quarry Aggregate Plant	Aggregates Concrete Aggregates
	Aztec Mining Bob Bassett	Anchor Bay Pit		Aggregates Gold
	Calportland	43rd Ave / Batch Plant	Batch Plant	Concrete
	CalPortland	Beardsley Batch Plant	Batch Plant	Concrete
	Calportland Company Calportland Company	Tolleson Batch Plant Deer Valley	Batch Plant Batch Plant Aggregate Plant	Concrete Concrete
	CalPortland Company	Bullard Mine Bullard Batch Plant		Sand & Gravel
	CalPortland Company		Batch Plant	Concrete

Cemex	Glendale Plant	Aggregate Plant	Aggregates
Cemex	Glendale Plant	Batch Plant	Concrete
Cemex	Glendale Plant	Hot Plant	Asphalt
Cemex	Plant 111 / 19th Ave.	Batch Plant	Concrete
Cemex	Plant 111 / 19th Ave Pit	Aggregate Plant	Aggregates
Cemex	Plant 111 / 19th Ave.	Hot Plant	Asphalt
Cemex	West Valley Plant #1371	Aggregate Plant	Sand & Gravel
Cemex	Bard Ranch Plant #4107	Batch Plant	Concrete
Cemex	El Mirage Plant	Batch Plant	Concrete
Cemex	59th Avenue	Aggregate Plant	Sand & Gravel
Cemex	107th ave/Plant 146	Aggregate Plant	
Cemex	El Mirage Plant	Aggregate Plant	Aggregates
Cemex	107th Ave.Plant	Hot Plant	Asphalt
Cemex	Bard Ranch	Aggregate Plant	Sand & Gravel
Cemex	Table Mesa Plant	Decorative Stone	
Cemex	Bard Ranch Batch Plant #1995	Batch Plant	Concrete
CEMEX	Plant 110 Batch	Batch Plant	Concrete
Cemex Construction Materials	Sun City Plant, #4118	Aggregate Plant	Sand & Gravel
Cemex Construction Materials	Sun City Batch Plant	Batch Plant	Concrete
Cemex Construction Materials	Glendale Pit #112	Aggregate Plant	Sand & Gravel
Cemex Construction Materials	Glendale #112	Batch Plant	Concrete
Cemex Construction Materials	Glendale #112	Asphalt Plant	Asphalt
Cemex Construction Materials L.P.	Buckeye # 127	Batch Plant	Concrete
Cemex USA	West Plant # 40311	Aggregate Plant	Sand & Gravel
Cemex USA	Jomax Plant	Aggregate Plant	Aggregates
Cemex USA	West Plant # 4108	Batch Plant	Concrete
Cemex USA	Lehi Plant # 76	Aggregate Plant	Sand & Gravel
Cemex USA	Mesa Plant #61	Batch Plant	Concrete
Cemex USA	El Mirage	Aggregate Plant	Aggregates
Cemex USA	Mesa Plant #71	Aggregate Plant	Aggregates
Circle H Sand and Rock	Circle H Sand and Rock	Aggregate Plant	Sand & Gravel

Custom Landscape Materials LLC	Bighorn Pit	Aggregate Plant	Decorative Stone
Custom Landscape Materials LLC	Belmont Pit	Aggregate Plant	Decorative Stone
Custom Landscape Materials LLC	Miller North Pit	Aggregate Plant	Decorative Stone
Damavand Trading LLC	Rio Grande Material West	Aggregate Plant	Sand & Gravel
Damavand Trading LLC.	51st Avenue	Aggregate Plant	Aggregates
Dean Wade Custom Builders LLC dba Dean Wade Excavation	Ceton Avondale Batch Plant	Aggregate Plant	
Drake Materials	Gila Bend	Wash Plant	Aggregates
Drake Materials	Gila Bend	Batch Plant	Concrete
Drake Materials	Sun City Plant # 1	Batch Plant	Concrete
Fisher Sand & Gravel Co.	28th Street Plant	Aggregate Plant	Aggregates
Fisher Sand & Gravel, Inc.	15th Ave Pit	Surface	Sand & Gravel
Fort McDowell Yavapai Materials	FMYM Plant #70	Batch Plant	Concrete
Fort McDowell Yavapai Materials	FMYM Plant #50	Batch Plant	Concrete
Granite Express	Berkley Pit/Pit #2	Aggregate Plant	Decorative Stone
Hanson Aggregates	51st Ave Pit / Plant #35	Aggregate Plant	Aggregates
Hanson Aggregates	Agua Fria Plant / River Ranch, #40 Plant # 46	Aggregate Plant	Sand & Gravel
Hanson Aggregates	Hasayampa 51st Ave Pit /	Aggregate Plant	Aggregates
Hanson Aggregates	Batch Plant #35	Batch Plant	Concrete
Hanson Aggregates	Agua Fria Plant / River Ranch, #40 51st Ave Pit / Hot	Batch Plant	Concrete
Hanson Aggregates	Plant #35	Hot Plant	Asphalt
Hanson Aggregates of Arizona	San Domingo Pit / Wickenburg San Domingo Batch Plant /	Aggregate Plant	Aggregates
Hanson Aggregates of Arizona	Wickenburg Sun City Batch Plant #33	Batch Plant	Concrete
Hanson Aggregates iMix Group LLC	Sun Valley	Batch Plant Batch Plant Decorative Stone	
Jakes Granite Supplies, LLC.	New River Plant 2 / Jomax Plant	Aggregate Plant	Decorative Stone
Kilauea Crushers	Estrella North & South	Aggregate Plant	Aggregates
Kilauea Crushers Inc.		Aggregate Plant	Granite/Decorative Stone
Kilauea Crushers, INC.	Picacho Mine Buckeye Hills Plant	Aggregate Plant	
Kilauea Crushers, Inc. Lafarge N. America formally Sun State Rock & Materials	Sun City	Surface	Sand & Gravel

Lafarge N. America formally Sun State Rock & Materials Lafarge North America, Inc. Lafarge North America, Inc.	Cave Creek Jack Rabbit Jack Rabbit West Side Pit	Surface Surface Surface Crush & Screen	Aggregates Sand & Gravel Asphalt
M.R. Tanner Mining, Inc.	Mine	Aggregate	Aggregates
Madison Granite Supply	Madison Granite Pit	Aggregate Plant	Granite/Decorative Stone
Mesa Materials, Inc.	Mesa Plant	Aggregate Plant	Aggregates
Mesa Materials, Inc. Mesa Materials, Inc.	Sun Plant # 2 Mesa Plant	Aggregate Plant Hot Plant	Aggregates Asphalt
Mesa Materials, Inc. Minex LLC FORMERLY Azco Mining	Sun Materials Plant # 2 Aguila Plant	Hot Plant	Asphalt Asphaltic Concrete
Mission Materials Company	Sun City Plant 05	Hot Plant Aggregate Plant	Concrete
Mission Materials Company	Gillespie #02 Gillespie Hot Plant	Hot Plant	Sand & Gravel Asphalt
Mission Materials Company Mission Materials, a Kiewit Company Mobile Mix Inc.	Sun City Plant # 01 Granite Reef Dam	Aggregate Plant Surface	Sand & Gravel Sand & Gravel
Morton Salt, A Rohm & Haas Company Paloma Ready Mix and Materials LLC. Phoenix Brick Yard	Glendale Old 80 Main Plant Tolleson Clay Pit Litchfield / Goodyear Plant # 13	In-Situ Surface Open Pit Mine	Salt Sand & Gravel Clay
Phoenix San Man	Sun City Plant # 12 & 15	Aggregate Plant	Aggregates
Phoenix San Man	Phoenix San Man Plant # 10	Aggregate Plant	Aggregates
Phoenix San Man	Buckeye Plant #24	Aggregate Plant	Sand & Gravel
Phoenix San Man Pioneer Landscaping Materials, Inc. dba Pioneer Sand Company	ABC Pit Pioneer Hassayampa Navajo Pit / Castle Hot Springs	Aggregate Plant Aggregate Plant	Sand & Gravel Sand & Gravel
Pioneer Sand Company	Red Mountain Quarry	Aggregate Plant	Sand & Gravel
Pioneer Sand Company	Buckeye Plant	Aggregate Plant	Decorative Stone
Red Mountain Mining	Hassayampa UM Plant 108 / 115th & Beardsley	Aggregate Plant Aggregate Plant Batch Plant	Decorative Stone Sand & Gravel Concrete
Rinker Materials Rinker Materials Western Inc. (CEMEX)			
Rinker Materials, Inc.			

Rinker Materials, Inc.	Avondale Batch Plant # 104	Batch Plant	Concrete
RMI Ready Mix	Sun City Plant	Batch Plant	Concrete
RMI Ready Mix, Inc. Mix, Inc.	Buckeye #76	Batch Plant	Concrete
Rock Biter Crushing, LLC	Various Locations	Aggregate Plant	
Rock Production Technologies LLC	Rock Production Technologies LLC.	Surface Batch Plant	Silica Smelter Flux Concrete
Rock Solid, Inc.	Peoria Plant	Underground Mine	
Rowley Mine	Graham	Mine	Wulfenite Crystals
Salt River Material Group	Buckeye Plant	Aggregate Plant	Sand & Gravel
Salt River Materials Group	67th Ave Plant	Aggregate Plant	Sand & Gravel
Salt River Materials Group /dba Salt River Sand & Rock	Olive Ave	Aggregate Plant	Sand & Gravel
South West Sand & Gravel, Inc.	South West Sand & Gravel Pit	Aggregate Plant	Aggregates
Southland Well Drilling	Desert Crystal	Screening Plant	Aggregates
Sun Land Materials LLC.	Laveen	Aggregate Plant	Sand & Gravel
Superstition Crushing		Aggregate Plant	Aggregates
Superstition Mountain Stone, Inc.	Superstition Mountain Granite Pit	Aggregate Plant	Granite/Decorative Stone
Trio Aggregate Haulers LLC.	Western Aggregates	Surface Aggregate Plant	Aggregates
United Metro Materials	Arlington Plant 24--	Aggregate Plant	
Vulcan Materials	Litchfield	Aggregate Plant	Aggregates
Vulcan Materials	Val Vista- Citrus Grove	Aggregate Plant	Aggregates
Vulcan Materials	Peoria	Aggregate Plant	Aggregates
Vulcan Materials	Avondale Plant	Aggregate Plant	Aggregates
Vulcan Materials	Avondale Hot Plant	Hot Plant	Asphalt
Vulcan Materials	Peoria	Hot Plant	Asphalt
Vulcan Materials	Plant 24--		
Vulcan Materials	Litchfield	Batch Plant	Concrete
Vulcan Materials		Aggregate Plant	
Vulcan Materials	University Plant	Plant	
Vulcan Materials	Plant 24--		
Vulcan Materials	Litchfield	Aggregate Plant	Sand & Gravel
Vulcan Materials	Aggregate	Aggregate Plant	
Vulcan Materials	West Plant	Plant	Sand & Gravel
Vulcan Materials	West Plant / Hot Plant	Hot Plant	Asphalt

Vulcan Materials, dba Calmat Co.	Plant 12 - Sun City	Aggregate Plant	Aggregates
Vulcan Materials, dba Calmat Co.	Plant 12 - Sun City	Hot Plant	Asphalt
Vulture Mining Company	New Vulture	Placer	Gold
Vulture Peak Gold, L.L.C.	Vulture Mine	Exploration	Gold
Wesco Minerals LLC.	Rainbow Valley	Open Pit Mine	Feldspathic Sand
Western Aggregates LLC.	Plant 41	Aggregate Plant	
Wickenburg Holding Group Corp.	Red Sand Silica	Surface	Sand & Gravel

Mohave	Company	Mine / Plant Name	Type	Product
	2 Arrows Construction LLC	Mountain Vista	Aggregate Plant	Aggregates
	C.S. McCrossan	Lake Havasu Pit	Aggregate Plant	Aggregates
	Cemex USA	Bullhead City Pit, #1473	Aggregate Plant	Aggregates
	Cemex USA	Bullhead City Batch Plant, 1981	Batch Plant	Concrete
	Chase Crushing aka Vista	White Hills	Aggregate Plant	Decorative Stone
	Chase Crushing aka Vista	Regal Mist	Aggregate Plant	Decorative Stone
	Chris Blythe's Aggregate Company	Havasu Hights	Screening Plant	Aggregates
	City of Bullhead	Portable Powerscreen	Aggregate Plant	
	Continental Materials	Beaver Dam Plant	Aggregate Plant	Sand & Gravel
	D & R Excavating	D & R Excavating Materials Pit	Aggregate Plant	Aggregates
	D. L. Campbell Company, Inc.	Sand Pit Road	Aggregate Plant	Aggregates
	D.L. Campbell Company	Chemehuevi Pit	Screening Plant	Asphalt
	D.L. Campbell Company	Hackberry	Aggregate Plant	Sand & Gravel
	Dayton Lundy Rock	Dayton Lundy Rock Pit # 1	Aggregate Plant	Decorative Stone
	Dayton Lundy Rock	Dayton Lundy Rock Pit # 2	Aggregate Plant	Decorative Stone
	Energy Fuels Resources (USA) Inc	Arizona # 1	UG Mine	Uranium
	Denison Mines	Pinenut	UG Mine	Uranium
	Energy Fuels Resources (USA) Inc		Aggregate Plant	
	Denison Mines		Plant	
	Desert Construction, Inc.	Hualapai Pit	Plant	Aggregates
	Desert Construction, Inc.	Hualapai Hot Plant	Hot Plant	Asphalt
	Desert Construction, Inc.	Wash & Screen Plant	Aggregate Plant	Aggregates
	Desert Construction, Inc.	Batch Plant	Batch Plant	Concrete

Dunbar Stone	Hualapai Chocolate	Quarry Aggregate Plant	Flagstone
Eureka Mining	Havasus Rose Rattlesnake Wash Pit	Aggregate Plant	Decorative Stone
Freiday Construction, Inc.	Black Rock Quarry	Aggregate Plant	Aggregates
Georgia Pacific Gypsum LLC. Golden Valley Rock & Materials LLC	Golden Valley Quarry	Quarry Aggregates Aggregate Plant	Gypsum
Grand Wash Excavating, Inc. Hondo Minerals Inc. JDI Enterprises LLC., aka Thunderbird Materials	Meadview # 1 Tennessee Mine DW Ranch Road Pit	SX-EW Plant Aggregate Plant Aggregate Plant	Sand & Gravel Gold & Silver Sand & Gravel
JDM Sand & Rock, Inc. Kalamazoo Materials Inc. aka Able Earth Kalamazoo Materials, Inc. aka Able Earth Kalamazoo Materials, Inc. aka Able Earth	Little Cedar Chloride Pit White Hills Mine New Valentine Pit Kingman Turquoise @ Mineral Park	Aggregate Plant Aggregate Plant Aggregate Plant Crush & Screen	Aggregates Granite/Decorative Stone Decorative Stone Decorative Stone
Kingman Turquoise Mining Co. Lhoist North America dba Chemical Lime Company	Nelson Plant	Quarry Aggregate Plant	Turquoise Lime
McCall Construction McCormick Construction a Northern Improvement Company McCormick Construction a Northern Improvement Company McCormick Construction a Northern Improvement Company McCormick Construction a Northern Improvement Company Mineral Park Inc.	McCall Pit Lake Havasu Hot Plant McCormick Pit / Rio Lomas III Lake Havasu Pit McConnico Pit / Drake Pit Mineral Park Cedar Hills Division Hualapai Pit	Hot Plant Aggregate Plant Aggregate Plant Aggregate Plant Open Pit Mine Aggregate Plant Open Pit Mine	Aggregates Asphalt Sand & Gravel Aggregates Aggregates Copper Granite/Decorative Stone Aggregates
Mineral Park Materials Mohave County Road Department Mojave Desert Minerals, LLC fka Addwest Minerals, Inc.	Gold Road Mine	UG Mine Aggregate Plant	Gold
OZ Rock Precision Aggregate Products LLC	OZ Rock Little Cedar Reserve Bank Mine	Sand & Gravel UG Mine Aggregate Plant	Aggregates
Reserve Bank	Sacramento Pit Pass Canyon Batch Plant	Batch Plant Aggregate Plant	Copper Jewelry Decorative Rock
Rock it Rock Products	Pass Canyon	Batch Plant Aggregate Plant	Concrete
S & S Concrete and Materials LLC.			Sand & Gravel
S & S Concrete Materials LLC.			

Sierra Resource Group Inc. fka SGV Resources Inc. Silmar of Arizona LLC. fka D. S. Mine & Development 209 988.2180	Chloride Copper Mine aka Emerald Isle Mine	Open Pit Mine	Copper
Statewide Excavation, Inc. SunCon fka Sunshine Concrete & Materials, Inc. SunCon fka Sunshine Concrete & Materials, Inc.	Excelisor London Bridge Road Pit	Mill Screening Plant Aggregate Plant	Gold & Silver Aggregates
	Airport Pit Airport Batch Plant	Batch Plant Aggregate Plant	Concrete Sand & Gravel
SunRoc Materials	Beaver Dam McConnico Pit / Kingman Batch Plant	Batch Plant Aggregate Plant	Concrete Aggregates
Sunshine Concrete & Materials, Inc.	Sawmill Wash Pit	Batch Plant Aggregate Plant Screening Plant	Concrete Aggregates
Sunshine Concrete & Materials, Inc. Thunderbird Materials aka JDI Enterprises LLC.	Colorado City Black Rock	Batch Plant Aggregate Plant Screening Plant Quarry	Concrete Aggregates Aggregates Gypsum
Tonto Supply Western Mining and Minerals			

Navajo	Company	Mine / Plant Name	Type	Product
	Arrowzona Stone Works & Mining Brimhall Sand Rock & Building Materials	NIZ Quarry	Surface	Sandstone
	Brimhall Sand, Rock & Building Materials	Winslow Pit Geronimo Sand Pit	Aggregate Surface Aggregate Plant	Aggregates Sand, Industrial Aggregates
	Brimhall Sand, Rock & Building Materials	Hardluck	Surface	Aggregates
	Brimhall Sand, Rock & Building Materials	Joe's Pit Cooley Knoll Cinder Pit	Surface Surface Aggregate Plant	Aggregates Cinders
	Brimhall Sand, Rock & Building Materials, Inc.	Wash / Rim Rock	Aggregate Plant	Sand & Gravel
	Brimhall Sand, Rock & Building Materials, Inc.	Decker Plant	Aggregate Plant	Sand & Gravel
	Brimhall Sand, Rock & Building Materials, Inc.	Decker Hot Plant	Hot Plant Aggregate Plant	Asphalt Aggregates
	Cholla Ready Mix	Perkins Valley Pit	Aggregate Plant	Aggregates
	Cholla Ready Mix, Inc. Hatch Construction & Paving Inc.	Woodruff Butte Flake Pit	Plant Open Pit Mine Aggregate Plant	Aggregates
	Hatch Construction & Paving, Inc.	Four Mile Pit	Plant	Aggregates
	Hatch Construction & Paving, Inc.	Four Mile Batch Plant	Batch Plant	Concrete
	Hatch Construction & Paving, Inc.	Four Mile Hot Plant	Hot Plant	Asphalt

McCauley's Dyna Rock & Sand	Minnetonka	Aggregate Plant	Aggregates
McCauley's Dyna Rock & Sand	Chevelon	Aggregate Plant	Aggregates
Navajo County	First Knoll Cinder Pit	Cinders	Cinders
Perkins Cinder Company	Owens Pit	Open Pit Mine	Cinders
Perkins Cinder Company	Turly Pit	Open Pit Mine	Aggregates
Perkins Cinders fka Linden Pearce Construction	Linden Pit	Aggregate Plant	Sand & Gravel
Perkins Cinders fka Linden Pearce Construction	Linden Batch Plant	Batch Plant	Concrete
Perkins Cinders fka Linden Pearce Construction	Linden Hot Plant	Hot Plant	Asphalt
Quality Ready Mix aka Cemex Red Rock Cinder Co.	Brimhall Cottonwood Operation Duke Peak	Batch Plant Cinders Aggregate Plant	Concrete Cinders
Reidhead Sand & Rock, Inc.	Reidhead	Batch Plant	Aggregates
Reidhead Sand & Rock, Inc.	Reidhead	Batch Plant	Concrete
Southwestern Stone Company	Gold Quarry	Quarry	Flagstone
Surface Contracting, Inc.	Brimhall	Hot Plant	Asphalt
Thirsty Stone Resources	HTH1 Quarry	Quarry	Sandstone
Western Materials, LLC	Cooley Knob	Surface	Cinders

Pima	Company	Mine / Plant Name	Type	Product
	Asarco Silver Bell Mining LLC.	Silver Bell Mine	Open Pit Mine	Copper
	ASARCO, Inc.	Mission Unit Pit	Open Pit Mine	Copper
	Cal Portland dba Twin Peaks Rock & Stone	Twin Peaks	Aggregate Plant	Sand & Gravel
	California Portland Cement dba CPC SouthWest Materials	Granite/Tangerine Plant	Batch Plant	Concrete
	California Portland Cement dba CPC SouthWest Materials Inc.,	Orange Grove Plant	Aggregate Plant	Sand & Gravel
	California Portland Cement dba CPC SouthWest Materials Inc., formerly Tucson Ready Mix	Orange Grove Plant	Batch Plant	Concrete
	California Portland Cement dba CPC SouthWest Materials Inc., formerly Tucson Ready Mix	Orange Grove Plant	Hot Plant	Asphalt
	California Portland Cement dba CPC SouthWest Materials Inc., formerly Tucson Ready Mix	Swan Batch Plant	Batch Plant	Concrete
	CalPortland Company formerly Arizona Portland Cement	Rillito Mill	Cement Plant	Cement/Lime
	CalPortland Company formerly Arizona Portland Cement	Rillito Quarry Plant 1457/223	Quarry	Limestone
	Cemex	Cortaro Plant	Aggregate Plant	Aggregates
	Cemex	Cortaro Batch Plant I	Batch Plant	Concrete
	Cemex	Cortaro Hot Plant	Hot Plant	Asphalt

Cemex	Avra Valley	Batch Plant Aggregate	Concrete
Cemex USA	Apex Plant # 22	Plant Aggregate	Sand & Gravel
Cemex USA	Pima Plant # 17 Pima Mine Plant	Plant	Sand & Gravel
Cemex USA	# 121	Batch Plant	Concrete
Cemex USA	Apex Plant # 12	Batch Plant	Concrete
Churchman Sand & Gravel / Aggregate Materials	River Road	Aggregate Plant	Sand & Gravel Adobe brick mortar plaster
Clay Mine Adobe Inc. Clay Mine Adobe, Inc. CM Mine Adobe, Inc	Avra Road Plant Clay Mine Adobe Hardscrabble	Surface Open Pit Mine Surface Aggregate	Clay Gold
Downey, LA & Sons Freeport McMoran Copper & Gold Ajo	Downey Pit New Cornelia Branch	Plant	Sand & Gravel
Freeport McMoran Copper & Gold Sierrita	Sierrita Open Pit	Open Pit Mine Aggregate Plant	Copper
Granite Construction Company	Swan Road Pit	Plant Aggregate	Aggregates
Granite Construction Company Granite Construction Company Granite Construction Company	Tangerine Pit Swan Road Pit Tangerine Pit	Plant Hot Plant Hot Plant Aggregate Plant	Aggregates Asphalt Asphalt
Huachuca Concrete, Inc. dba AzConAgg Imerys Marble	Wilmot Plant Santa Rita Mine	Quarry Aggregate Plant	Sand & Gravel Limestone
Jim Bush Sand & Gravel Kalamazoo Materials, Inc. aka Able Earth	Jim Bush Silverbell	Plant Aggregate Plant	Aggregates Decorative Stone
Lamb Rock (Lamb Excavation Inc. DBA) Lamb Rock aka Lamb Excavation, Inc.	Wentworth Twin Buttes	Aggregate Aggregate Plant Aggregate Plant	Rip/Rap Decorative Stone
Minerals Research & Recovery, Inc.	Ajo Plant Oracle Ridge Mine		Slag Copper
Oracle Ridge Mining LLC Oremus Material Inc. Phoenix Brick Yard Pioneer Landscaping Materials, Inc. dba Pioneer Sand Co. Pioneer Landscaping Materials, Inc. dba Pioneer Sand Co.	Avra Valley Pantano Sierra Gold Pit Waterman Pit Rosemont Copper	Batch Plant Open Pit Mine Aggregate Plant Aggregate Plant	Concrete Clay Aggregates Decorative Stone
Rosemont Copper Company		Surface Underground Mine	Copper Gold
Sahuarita Mining 1986, Ltd.	Blue Jay Sandstorm Materials		
Sandstorm Materials	Hughes Sand & Gravel Pit	Surface Aggregate Plant	Sand & Gravel Sand & Gravel
Sierra Mining & Crushing LLC.			

SKM Mining & Materials, Inc. aka MEMCO	Pantano Plant	Open Pit Mine	Aggregates
Sonora Environmental LLC. dba B & R Materials, Corp	Harrison	Aggregate Plant	Sand & Gravel
Southwest Mining & Development Inc.	Escalante Plant	Screening Plant	Aggregates
Staker Parson Companies	Linda Vista 1 INA Pit	Surface	Sand & Gravel
Staker Parson Companies	Poor Man Rd. Batch Plant	Batch Plant	Concrete
Staker Parson Companies	Green Valley Batch Plant	Batch Plant	Concrete
Staker Parson Companies	INA Batch Plant	Batch Plant	Concrete
Staker Parson Companies	Green Valley San Xavier	Batch Plant	Concrete
University of Arizona	Mining Lab	Miner Training Lab	Training
Valley Rock & Sand Company	McCann Pit	Aggregate Plant	Aggregates
Vulcan Materials	Black Angus	Hot Plant	Asphalt
Vulcan Materials	Black Angus Pit	Aggregate Plant	Aggregates
Vulcan Materials	Marana	Aggregate Plant	Aggregates
Vulcan Materials	Marana Plant	Hot Plant	Asphalt

Pinal	Company	Mine / Plant Name	Type	Product
	Albo Guzman	Albo Guzman Plant #2 Queen Creek	Aggregate Plant	Sand & Gravel
	Arizona Materials LLC. Arizona Materials, L.L.C.	Plant #8 Florence	Batch Plant	Concrete
	Arizona Metro Mix	Arizona Metro Mix # 1	Batch Plant	Concrete
	Arizona Pacific Materials ASARCO, Inc.	Phoenix Cinders Pit/Queen Creek Plant Ray Operations	Aggregate Plant Open Pit Mine	Decorative Stone Copper
	CalPortland Company	Coolidge Batch Plant	Batch Plant	Concrete
	CalPortland Company	15931 N Christensen Rd. Coolidge Az.	Surface	Sand & Gravel
	Cemex USA	UM Plant 449 / 2305 S. Rooftile Road Casa Grande	Batch Plant	Concrete
	Cemex USA	UM Plant 449 / 2305 S. Rooftile Rd. Casa Grande	Aggregate Plant	Aggregates
	Cemex USA	UM Plant 449 / 2305 S. Rooftile Rd. Casa Grande	Hot Plant	Asphalt
	Cemex USA	Plant # 142, Queen Creek	Aggregate Plant	Aggregates

Cemex USA	Queen Creek Plant 406	Aggregate Plant	Sand & Gravel
Cemex USA	Queen Creek Plant 65	Batch Plant Aggregate Plant	Concrete
Cemex USA	Coolidge Plant Plant # 142,		Sand & Gravel
Cemex USA	Queen Creek	Batch Plant	Concrete
Cemex USA	Coolidge Plant	Batch Plant Aggregate Plant	Concrete Granite/Decorative Stone
Chandler Rock, Inc.	Big Nob	Decorative Stone	Granite/Decorative Stone
Decorative Rock Sales	Little Hill Mine	Aggregate Plant	
Diablo Sand & Gravel	Diablo	Surface	Sand & Gravel
Fisher Sand & Gravel, Inc.	Florence Pit	Hot Plant	Sand & Gravel
Fisher Sand & Gravel, Inc.	Florence Pit	Batch Plant	Asphalt
Fort McDowell Yavapai Materials	Plant Sixty	Batch Plant	Concrete
Gila Rock Products, LLC	Reymert - Superior	Aggregate Plant	
Granite Express LLC	Pit 1	Surface	Decorative Stone
Hanson Aggregates	Queen Creek Plant 42	Aggregate Plant	
Hanson Aggregates	Queen Creek Batch Plant 42	Batch Plant	Sand & Gravel
Hanson Aggregates of Arizona, Inc.	Coolidge Plant # 65	Batch Plant Aggregate Plant	Concrete
Hanson Aggregates of Arizona, Inc.	Coolidge Harborlite	Batch Plant	Sand & Gravel Concrete
Imerys Perlite USA, Inc.	Mine/Mill	Open Pit Mine	Perlite
JALAG Enterprises	Jalag Pit	Aggregate Plant	
Kalamazoo Materials	Durham Hills Quarry	Aggregate Plant	Sand & Gravel
Kalamazoo Materials aka Able Earth	Bonito	Aggregate Plant	Aggregates Granite/Decorative Stone
Kalamazoo Materials Inc. aka Able Earth	Amber/ desert gold	Aggregate Plant	Decorative Stone
Kalamazoo Materials, Inc. aka Able Earth	New Superior Pit	Aggregate Plant	Aggregates
Kalamazoo Materials, Inc. aka Able Earth	Old Superior Pit	Aggregate Plant	Aggregates
KJC Rock and Materials Inc.	KJC Rock and Materials Inc.	Surface	Decorative Stone
M.R. Tanner Mining Inc.	Queen Creek Pit Mine	Aggregate Plant	
M.R. Tanner Mining, Inc.	Rankin Pit Mine	Crush & Screen	Aggregates
Mesa Materials	Coolidge Plant	Hot Plant	Asphalt
Mission Materials Company	Casa Grande Plant 07	Surface	Sand & Gravel
Mission Materials Company		Aggregate Plant	
Mission Materials Company	Florence Plant #3	Hot Plant	Asphalt
National Gypsum aka New NGC, Inc.	Feldman	Open Pit Mine	Gypsum

Old Wasp Mine OMYA CA, Inc. Pluess-Staufer CA, Inc.	Old Wasp Mine	Surface	Gold & Silver
P & P Materials LLC	Omya Az.	Quarry Aggregate Plant	Marble Aggregates
Phoenix San Man Pinal Gypsum	P & P Materials Coolidge Plant # 11	Aggregate Plant	Sand & Gravel Gypsum
Pioneer Sand	White Cross Mine	Open Pit Mine Aggregate Plant	Aggregates
Pioneer Sand	Picacho Peak Pit Casa Grande Pit aka grande rose pit	Aggregate Plant	Granite/Decorative Stone
Pioneer Sand	San Tan Pit	Aggregate Plant	Aggregates
Red Hills Mining LLC	Red Hills Quarry	Aggregate Plant	Decorative Stone
Resolution Copper Mining, LLC Rinker Materials, Inc.	Superior Magma Mine UM Plant 1975 UM Plant 46	Underground Mine Batch Plant	Copper Concrete
Rinker Materials, Inc.	17685 N. Tanner Road	Aggregate Plant	Sand & Gravel
RMI Ready Mix / Drake	Queen Creek Plant	Batch Plant Underground Mine	Concrete Silver Aggregates
Silver King Mining, LLC Smithco Enterprises, Inc.	Silver King Mine Bobbitt Pit Sonora Environmental formerly Coolidge sand & Rock	Open Pit Mine Aggregate Plant	Sand & Gravel
Sonora Environmental fka Coolidge Sand & Rock	Sonora Environmental formerly Coolidge sand & Rock	Batch Plant Aggregate Plant	Concrete
Sonora Environmental fka Coolidge Sand & Rock	Queen Creek / Plant 1	Aggregate Plant	Aggregates
Southwest Rock Products Southwest Rock Products (Landscape)	Coolidge Plant	Aggregate Plant	Sand & Gravel
St. Cloud Mining Co. (DBA) White Cliffs Mining, Inc. T D Martin Group LLC	White Cliffs Pit # 525	Open Pit Mine Wash Plant Aggregate Plant	Diatomite Sand, Industrial
Tee Pee Sand & Gravel	Tee Pee Old Montgomery Pit - Casa Grande	Surface Aggregate Plant	Aggregates Granite/Decorative Stone
The Ashton Company, Inc.	Treasure Chest Pit	Hot Plant Aggregate Plant	Asphalt
Treasure Chest Mining Vulcan Materials Co.	Queen Creek Walker Butte Granite	Aggregate Plant	Decorative Stone

Santa Cruz	Company	Mine / Plant Name	Type	Product
	California Portland Cement dba CPC SouthWest Materials	Rio Rico	Batch Plant	Concrete
	California Portland Cement dba CPC SouthWest Materials Inc., Collins Excavating dba Rio Rico Rock & Sand	Rio Rico Plant	Aggregate Plant	Aggregates
		Rio Rico Plant	Aggregate Plant	Aggregates
	GRG Construction Inc.	GRG Santa Cruz # 1	Aggregate Plant	Aggregates

Yavapai	Company	Mine / Plant Name	Type	Product
	Alberto Caballero	Gold Bench	Surface	Gold
	APS Asphalt Paving and Supply dba Arrowhead Materials a Northern Improvement Company	Prescott Valley Pit	Aggregate Plant	Aggregates
	APS Asphalt Paving and Supply dba Arrowhead Materials a Northern Improvement Company	Prescott Valley Batch Plant	Batch Plant	Concrete
	APS Asphalt Paving and Supply dba Arrowhead Materials a Northern Improvement Company	Prescott Valley Hot Plant	Hot Plant	Asphalt
	APS dba Arrowhead Materials a Northern Improvement Company	Chino Valley Pit	Aggregate Plant	Sand & Gravel
	Arizona Construction Equipment, LLC	Brinkley Mine / Hackberry Claim	Surface	Aggregate and Gold
	Bedrock Landscape Materials	Bedrock Portable Plant #1	Aggregate Plant	Aggregates
	Bloody Basin Mining & Development	Monte Cristo Mine - B.H. Adit Plant 556	Underground Mine	Copper
	Cemex fka Rinker Materials	CampVerde-Cherry Pit Plant 556	Aggregate Plant	Aggregates
	Cemex fka Rinker Materials	CampVerde-Batch Plant UM Plant	Batch Plant	Concrete
	Cemex fka Rinker Materials	556/Camp Verde-Hot Plant	Hot Plant	Asphalt
	Cemex formerly Rinker Materials, Inc.	Prescott Valley Hot Plant 551	Hot Plant	Asphalt
	Cemex formerly Rinker Materials, Inc.	Prescott Valley Plant 551	Aggregate Plant	Aggregates
	Cemex formerly Rinker Materials, Inc.	Chino Valley	Batch Plant	Concrete
	Cemex formerly Rinker Materials, Inc.	Prescott Valley Batch Plant 551	Batch Plant	Concrete
	Charter Materials, LLC.	Plant 100	Aggregate Plant	Aggregates
	Chino Valley Materials	Schiabie / Granite Creek Pit	Aggregate Plant	Aggregates

Clarkdale Metals Corp	Clarkdale Slag Project	Surface	Gold
Dick Merritt	Last Chance Mine aka Blackhat	Surface	Gold
Drake Cement, LLC.	Drake Cement Plant	Cement Plant	Cement/Lime
Drake Materials	Drake Iron Ore M.C. Canyon	Surface	Iron Ore
Drake Stone	Quarries	Quarry	Flagstone
Drake Stone	Rock House Quarries	Quarry	Flagstone
Drake Stone Products Inc.	Far North Oak	Surface	Flagstone
Flintstone Industries Inc.	Dewey Pit	Surface	Decorative Stone
Freeport McMoran Copper & Gold Bagdad Operations	Bagdad Mine	Open Pit Mine	Copper
Freeport McMoran Copper & Gold United Verde	United Verde Northern Az	Underground Mine	Rehab
G & S Gravel Incorporated	Star Placer	Aggregate Plant	Sand & Gravel
Granite Mountain Materials	Dosie Pit	Aggregate Plant	Granite/Decorative Stone
Hanson Aggregates	Yavapai Airport Pit	Aggregate Plant	Sand & Gravel
Hanson Aggregates	Clarkdale Hot Plant	Hot Plant	Asphalt
Hanson Aggregates	Yavapai Airport Batch Plant	Batch Plant	Concrete
Hanson Aggregates	Clarkdale Plant	Aggregate Plant	Aggregates
Hanson Aggregates	Clarkdale Plant	Batch Plant	Concrete
Harley Gray Stone	Partridge & Red	Quarry	Flagstone
J.W. Mining L.L.C.	Rich Hill Mine	Surface Placer	Gold
Jakes Granite Supllies, LLC.	Date Creek Quarry	Decorative Stone	Aggregates
Material Delivery Inc. (M D I)	Dewey Pit	Aggregate Plant	Decorative Stone
McCormick Construction a Northern Improvement Company	McConnico Hot Plant	Aggregate Plant	Aggregates
Mendoza Quarry	Mendoza Quarry	Surface	Flagstone
Mike Mulcair Excavating Inc.	Midpoint	Aggregate Plant	Sand & Gravel
Milkmine, LLC	Gold Mesa	Placer	Gold
North American Industries aka Ironite Products	Ironite Products	Mine Tailings	Fertilizer minerals
Paterno Stone Co. aka Triple R Stone	Copper Qween	Quarry	Decorative Stone
Paterno Stone Co. aka Triple R Stone formerly Roy Anderson Stone	Bluebell Quarry	Quarry	Flagstone
Paterno Stone Co. aka Triple R Stone formerly Roy Anderson Stone	Apache	Quarry	Flagstone
Pine Creek Mining, Inc.	Gold Basin	Placer	Gold
Reay Brothers Excavation, LLC		Aggregate Plant	Sand & Gravel
Rock Production Technologies LLC	Rock Production	Aggregate Plant	Silica Sand

Rock Ridge Quarries Inc. aka 3 Wins Quarries	Rock Ridge Quarries	Quarry	Flagstone
Salt River Materials Group, dba Phoenix Cement	Phoenix Cement Gypsum Mine	Open Pit Mine	Gypsum
Salt River Materials Group, dba Phoenix Cement	Phoenix Cement Plant	Cement Plant	Cement/Lime
Southwest Exploration Research & Development fka Alvarado Holdings Stoneworld	Alvarado Mine	Surface	Gold & Silver
	Onyx Quarry	Quarry	Stone, Dimension
Stoneworld	Rattlesnake Canyon	Quarry	Flagstone
Sunshine Concrete & Materials dba Suncon	Paulden Pit	Aggregate Plant	Aggregates
Sunshine Concrete & Materials dba Suncon	Drake Batch Plant	Batch Plant	Concrete
Superstition Crushing LLC	Black Canyon		
Swallow Mining LLC	City	Sand & Gravel	Rip/Rap
United Verde Inc. AKA United Verde Materials	Swallow Mine	Exploration	Copper
Vanderbilt Minerals Corp.	United Verde Pit	Aggregate Plant	Aggregates
Western Sun Exploration, Inc.	Lyle Mine	Open Pit Mine	Clay
	Jerome Mine		
	Claim	Placer	Gold
Yavapai County Public Works Dept.	Yavapai County	Aggregate Plant	Sand & Gravel

Yuma	Company	Mine / Plant Name	Type	Product
	Aztec Excavating & Materials LLC	Dateland Pit	Surface Aggregate Plant	Sand & Gravel
	BLT Companies, LLC	BLT Materials Pit	Plant	Sand & Gravel
	BLT Companies, LLC	BLT Batch Plant	Batch Plant	Concrete
	BLT Companies, LLC	BLT Hot Plant	Hot Plant	Asphalt
	BTZ dba Zellers Excavating & Paving		Aggregate Plant	
	BTZ dba Zellers Excavating & Paving	Black Hill Mine	Plant	Sand & Gravel
	BTZ dba Zellers Excavating & Paving	Black Hill Hot Plant	Hot Plant	Asphalt
	BTZ dba Zellers Excavating & Paving	Black Hill Batch Plant	Batch Plant	Concrete
	Cemex	County 19	Aggregate Plant	Aggregates
	Cemex	Hwy - 95 Plant	Plant	Sand & Gravel
	Cemex	Hwy - 95 Plant	Hot Plant	Asphalt
	Desert Road Builders, Inc.	Blaisedale Pit	Aggregate Plant	
	Desert Road Builders, Inc.	Yuma Pit # 1	Plant	Sand & Gravel
	Desert Road Builders, Inc.	County 19 Hot Plant	Hot Plant	Asphalt
	Desert Road Builders, Inc.	County 19 Plant	Aggregate Plant	Sand & Gravel
	H & S Developers, Inc.	Fortuna Pit 1	Plant	Sand & Gravel
	Luxcor Gold L.P.	Francher Project	Underground Mine	Gold

Mohawk Rock, LLC	Mohawk Rock, LLC	Decorative Stone Aggregate Plant	Rip/Rap
Saguaro Concrete	Rock in Roll	Aggregate Plant	
Tacna Sand & Gravel, LLC.	Roll Plant	Aggregate Plant	Sand & Gravel
Yuma County Dept. of Public Works	Yuma Portable	Aggregate Plant	Sand & Gravel

Portable	Company	Mine / Plant Name	Type	Product
	Arizona General Engineering / A.G.E. Contracting Inc.	CPC Rio Rico	Contractor Portable	Aggregates
	Ashton Company, Inc.	Various Mine Sites	Aggregate Plant	Sand & Gravel
	Ashton Company, Inc.	Various Mine Sites	Aggregate Plant	Sand & Gravel
	Ashton Company, Inc. The AZ BEST Formally known as Woody's Landscaping, LLC	Various Locations Walker Butte Granite Pit	Asphalt Plant Portable Screen Plant	Asphalt Construction
	C S & W Contractors Inc.	Various Mine Sites	Custom Crushing Portable	
	C. S. McCrossan, Inc.	Portable Mining Equipment Portable Hot Plant	Aggregate Plant Hot Plant	Sand & Gravel Asphalt
	C. S. McCrossan, Inc.	Portable Crushing and Screening Spread	Crush & Screen	
	Cemex Construction Materials	County Wide Portable Screen Plant		
	Coconino County Public Works		Open Pit Crush & Screen	Cinders
	CS McCrossan, Inc.	PE500	Custom Crushing	
	Dalmolin Excavating	(CM-2248 ADOT Pit #)	Surface Aggregate Plant	Aggregates
	Empire Excavation, Inc.			
	Environmental Response, Inc.	Portable	Aggregate Plant	Aggregates Asphaltic Concrete
	F N F Construction Inc.	Portable 87-00	Hot Plant	
	F N F Mining Co., A division of F N F Construction	71-14 Portable	Aggregate Plant	Aggregates
	F N F Mining Co., A division of F N F Construction	Various Sites	Aggregate Plant	Aggregates
	F N F Mining Co., A division of F N F Construction	71-21	Aggregate Plant	Aggregates
	F N F Mining Co., A division of F N F Construction	RE 5958	Aggregate Plant	
	Fann Contracting	Various Mine Sites	Custom Crushing	Construction
	Fann Contracting	Hot Plant 1 & 2	Hot Plant	Construction

Fisher Industries, Southwest Industries	Various Mine Sites	Custom Crushing	Aggregates
Fisher Industries, Southwest Industries	Various Mine Sites	Hot Plant	Asphalt
Fisher Sand & Gravel dba Arizona Drilling and Blasting	Various Mine Sites	Custom Crushing Aggregate Plant	Aggregates
Fort McDowell Yavapai Materials	Various Mine Site	Custom Crushing	Decorative Stone
Granite Construction Company	Various Mine Sites	Hot Plant	Rip/Rap
Granite Construction Company	Various	Aggregate Plant	Asphalt
Granite Express, LLC	Portable	Aggregate Plant	Aggregates
Hanson Aggregates of Arizona	Portable PC 54	Aggregate Plant	Aggregates
Hatch Construction & Paving Inc.	Various Mine Sites	Aggregate Plant	Aggregates
Interstate Rock Products, Inc.	Indigo Ridge Project	Custom Crushing	
Kessen & Kessen, Inc.	Copper Hills Mine	Custom Crushing	Revert Crushing
Kiewit Western Co.	Various Sites / Portable	Aggregate Plant	
Kiewit Western Co.	Various Sites / Portable	Hot Plant	Asphalt
M.R. Tanner Mining, Inc.	Portable #1 & #2	Crush & Screen	Aggregates
Material's Delivery Inc. (M.D.I.)	Various McCormick	Custom Crushing	Sand & Gravel
McCormick Construction a Northern Improvement Company	Portable Hot Plant	Hot Plant	Asphalt
Meadow Valley Contractors, Inc.	Statewide Hot Plant	Hot Plant	Asphalt
Meadow Valley Contractors, Inc.	Portable Plant	Custom Crushing	Aggregates
Mercury Constructors, Inc.	Various Mine Sites	Surface	Aggregates
Mohave County Road Department	Kolman Portable	Open Pit Mine Aggregate Plant	Aggregates
Payson Concrete & Materials	Portable Plant	Custom Crushing	Aggregates
Perkins Cinders Inc.	Hall Pit	Crushing	Sand & Gravel
Phoenix San Man	PC Plant 15 /		
Robson Ranch Const. Co. Land Development	Various	Aggregate Custom Crushing	Aggregates
S & M Construction, Inc.	FMI Morenci	Custom Crushing Aggregate Plant	Construction
Schuck Development	Various Locations	Aggregate Plant	Sand & Gravel
Smithco Enterprises, Inc.	Various Mine Sites	Custom Crushing	Silica/Slag
Southwest Rock Products	Various Mine Sites	Aggregate Plant	Sand & Gravel

Sun Valley Mining Company aka Superstition Crushing	Various Locations Portable Soil	Aggregate Plant	Aggregates
Sundt Construction Inc.	Cement Plant	Batch Plant Aggregate	Soil Cement
Sundt Construction Inc.	Soil Cement Plant all portable	Plant Aggregate	Soil Cement
Superstition Crushing	equipment	Plant Custom	Aggregates
Texas Canyon Rock & Sand	Various Location	Crushing Custom	Aggregates
Tonto Supply	Custom Crusher Various Mine	Crushing Aggregate	Aggregates
Town of Eagar	Sites	Plant Portable	
Tri County Materials / AKA Morris Sand & Gravel	Various Mine Sites	Aggregate Plant	Aggregates
Wheeler Construction aka WCI		Portable Aggregate	
Mining LLC. White Mountain Cinders	Various Locations	Plant Cinders	Aggregates Cinders

Education and Training

The Education and Training Department of the Arizona State Mine Inspector's Office (ASMI) provides the mandatory federal mine safety training to the Arizona mining community. The Mine Safety and Health Administration (MSHA) guidelines require that all miners under MSHA jurisdiction have initial and annual safety training classes. This training is provided to mine employees, contractors, vendors or individuals who enter onto mine properties.

The Arizona State Mine Inspector's training staff conducted the training with funding provided by the federal MSHA State Grants Program, state appropriations and class fees. In 2009, the Arizona State Mine Inspector was given authority to charge a fee by the Forty-ninth Legislative, First Regular Session, Chapter 63 Senate bill 1256. Title 27, Chapter 1, Article 2, Arizona Revised Statutes is amended by adding section 27-123, to read:

- A. The State Mine Inspector may adopt and collect education and training fees for the purpose of training miners in the state.
- B. The State Mine Inspector shall credit monies received for education and training purposes to the federal education and training fund, designated as the Arizona State Mine Inspector's account, to be used according to the Federal state grant rules, as appropriated.

In January of 2010 ASMI implemented a MSHA approved "Class Fee Program". These grants, allocations and fees gave ASMI trainers the ability to staff and to travel throughout Arizona with updated materials and equipment to provide quality training. With a revised and approved Part 48 Training Plan, ASMI conducts separate 8 hour Annual Refresher

and 24 hour New Miner Inexperienced training sessions. The New Miner classes are conducted with “New Miners” only and specifically formatted sessions with a strong emphasis to new miner issues and content.

The ASMI trainer’s issue certificates for CFR Parts 46 and 48: Annual Refresher (AR) Surface Coal, Metal or Non-Metal, AR Underground – all 8 hour class. New Miner Inexperienced (NMI) Surface Coal, Metal or Non-Metal - 24 hour class (3 days) and FA/CPR/BBP - 6 to 8 hour class.

Subject matter covered in these classes include: The Federal Mine Safety and Health Act – 1977. Code of Federal Regulation CFR Title 30: Parts - 46, 47, 48, 50, 56, 57, 62 and 70. The Mining Code of the State of Arizona which contains the Arizona Revised Statutes, Rules & Regulations. Other topics covered include: Mandatory Health & Safety Standards – Prevent Fatalities “Rules To Live By” – 2010 and 2011 MSHA Fatal-grams Review and Discussion - Statutory Rights and Responsibilities of Miners – “Miners Voice In the Workplace” - Authority & Responsibility of Supervisors & Miners Representatives - Drug & Alcohol Free Workplace Issues & Programs - Transportation and Communication Controls - Noise and Respiratory Health Standards - Mine Hazard Recognition - Prevention of Accidents - Ground Control Issues – Fall of Ground – Explosives - Electrical Hazards – Lock Out Tag Out - Hazard Communication – The Miners Right to Know - MSDS (Chemical Hazards) - Emergency and Escape Procedures – Fire Prevention - Underground Hazards and Issues – Mine Gases – Surface Coal Mine Issues – U.S. and Arizona Mining History - Basic First Aid, CPR, BBP, AED, Shock, Control of Bleeding, & Body Injuries - Abandoned Mines Safety Awareness – “Stay Out Stay Alive”.

Students completing safety training in 2012

Miners	1,090
Contractors	1,843
Others	190
Total Participants Trained	3,123

Of Total Participants Trained, 139 received First Aid/CPR/BBP certifications.

Total Certificates Issued 3,331

(Some participants received multiple certifications for CFR Part 48 & 46)

In past years and into 2012, ASMI has received a great appreciation and acknowledgement from mine operators, contractors and others for the quality and consistency of training. Providing this service allows some miners the needed training to continue working and others a step into the door of a potential mining job. The Arizona State Mine Inspector’s Education and Training staff is dedicated to quality and professional

training. ASMI trainer's priority is to relay and remind in an honest, understanding and forceful manner to all miners of our greatest responsibility. That greatest responsibility is the goal of beginning and completing a good safe day of work, taking care of number one, care of co-workers and returning home to family and friends.

Abandoned Mines Inventory and Remediation

The abandoned mine program responsibilities are to inventory abandoned mine sites throughout the 72, 931,840 acres that comprise the state of Arizona and to coordinate the closure of these mines. There have been 10,000 plus inventoried and 4555 evaluated to date. This inventory and evaluation is critical, since abandoned mines may pose a serious threat to public's health and safety. While many sites are shallow prospects, others have dangerous shafts and tunnels. During fiscal year 2012 ASMI secured 198 mine features; 58 of which were permanently backfilled; 140 were fenced and signed; 65 Notice of Violations were issued; 37 Corrective Actions have been submitted; the remaining 28 with no response from private land owners or mining claims.

Complaints are investigated as soon as possible following their receipt. If the mine is in an area previously inventoried the file is consulted to determine the conditions. A field crew is then detached to investigate the site, making a photographic record of the site and detailing the conditions found. The State Land Department, Bureau of Land Management and County Assessor's Office is contacted for determination of the owner or claimant. A Notice of Violation is issued informing the owner of his legal responsibilities under the law. The owner must respond with corrective actions or plans within 60 days of notification. In the rare case of the owner not responding, the matter may be turned over to the county prosecutor for further follow-up. Ownership or responsibility for abandoned mines is difficult or impossible to determine in some instances. When no responsible party can be found, the state must take responsibility for the mine closure.

Abandoned Mine Accidents

No serious accidents or fatalities were reported in calendar year 2012.

Mined Land Reclamation

Hardrock Mining Industry totals for 2012

Since April 1997, the Arizona's Mined Land Reclamation Act (A.R.S. § 27-901 et. seq.) and the rules per Arizona Administrative Code (A.A.C. R11-2-101 et. seq.), requires all metalliferous mines with surface disturbances on private land to submit reclamation plans and financial assurance mechanisms to the State Mine Inspector for review and approval. The mine owners/operators with approved plans are required, by rule, to submit annual status report updates. In 2012, the following sites reported an approximate 1485 acres of

new disturbances during this reporting period. According to the reportable mine sites for the metalliferous (hardrock) mining industry, the State Mine Inspector estimates approximately 81,692 acres have been disturbed through all reportable years, with an approximate estimate of 5428 acres of private mined lands having been reclaimed by the majority of these reporting mine sites.

Mining Company	Mine Site	Disturbed Acres 2012	Total Acres Reclaimed	Total Acres Disturbed
Addwest Minerals	Gold Road	-	-	28
ASARCO	Hayden	13	-	3754
ASARCO	Mission	-	-	8358
ASARCO	Ray	72	-	9157
ASARCO	Santa Cruz	-	-	10
Silver Bell LLC (Asarco)	Silver Bell	100	-	1512
BHP Billiton	Miami Unit	-	202	557
BHP Billiton	Pinto Valley	-	475	4102
BHP Billiton	San Manuel	-	3901	7532
Resolution Copper (old magma)	Superior	-	-	512
Merrill Mining (BHP Copper)	Florence	-	-	0
BHP Copper	McCabe	-	-	-
Carlota Copper Co.	Carlota	295	-	701
Mercator Mineral Park, Inc.	Mineral Park	21	-	1151
Nord Resources	Johnson Camp	-	-	711
Freeport-McMoRan Mining	Ajo mine	-	-	2245
Freeport-McMoRan Mining	Bagdad	255	830	6969
Freeport-McMoRan Mining	Miami	51	-	4701
Freeport-McMoRan Mining	Morenci	151	-	15323
Freeport-McMoRan Mining	Sierrita	66	-	10068
Freeport-McMoRan Mining	Twin Buttes	-	-	1421
Freeport-McMoRan Mining	Safford	459	-	2906
	Totals	1485	5428	81692

Aggregate Industry Totals for 2012

Since January 2007, the Arizona's Mined Land Reclamation Act, Arizona Revised Statutes (A.R.S.) § 27-1201 et. seq. required all aggregate mines (sand & gravel), with five or more acres of disturbance on private land, to submit reclamation plans and financial assurance

mechanisms to the State Mine Inspector for review and approval. Currently 193 aggregate mining sites have an approved reclamation plan through the Reclamation Division, of the State Mine Inspector Agency.

In accordance with A.R.S. § 27-1277, (enacted in 2010), the Aggregate Mine owner/operators with approved plans are required to submit annual status report updates. The annual status updates (received in 2011-2012), reported an approximate 166 acres of mined lands were reclaimed for 2012, and 1060 acres of new disturbance were reported during this yearly reporting period. According to the mine sites in the Aggregate (sand & gravel) mining industry, during the 2012 reporting period, the aggregate industry continues to struggle with a continued slowdown of the industry along with Arizona's downsize of the construction industry activity.

The Arizona State Mine Inspector estimates the following reported totals with approximately 47,030 acres of private land have been approved for the potential of aggregate industry utilization, and is estimated for future land disturbance. Currently, 11,913 acres have been reportedly disturbed through all reportable years, with an approximate estimate of 497 acres of private mined lands having been reclaimed.