

**National Park Service (NPS) Servicewide Abandoned Mineral Lands (AML) Database
Field Descriptions / Data Dictionary**

Database Required Field	Inventory Form / Datacollector Field	Field Name	Field Type	Field Description	Comments
		Essential Data			SQL Server Data Types: V = varchar (variable-length, character data); I = int (integer); F = float (floating point numeric data); D = datetime (date field)
		Detail 1	Note Recovery Act Reporting Fields under Feature Mitigation Completed Section		
		Detail 2			
SITE / GENERAL					
x	x	Region	V	Region	AKR, IMR, MWR, NCR, NER, PWR, SER
x	x	Park_Code	V	Park Code	4-character park acronym - e.g., ACAD, DEVA, BISO
x	x	Site_Name	V	Site Name	Enter the official name, or if not known, an identifying name (e.g., "Unknown 1," "Grizzly Gulch 1," etc.)
x	x	Site_Type	V	Site Type	Underground Mine, Surface Mine, Placer Mine, Mill, Well, Road, Other
x	x	State	V	State	2-letter postal code
	x	County	V	County	
	x	Watershed	V	Watershed	Watershed name
	x	Site_Acres	F	Site Acreage	Size of surface disturbance for entire site (in tenths of acres)
	x	Ownership	V	Ownership	Legal ownership: Federal, Private (including patented mining claims), Unpatented (unpatented mining claim), State, County, Other
	x	Admin_Use	V	Administrative Use	Yes/No/Unknown - Is the site used administratively by NPS, e.g., sand/gravel quarry for park roads?
		FMSS_Loc_ID	I	Location ID	Facility Management Software System Location ID
		FMSS_API	I	Asset Priority Index	Facility Management Software System Asset Priority Index (1-100)
		FMSS_FCI	F	Facility Condition Index	Facility Management Software System Facility Condition Index (0.000 - X.XXX)
		CERCLA	V	CERCLIS #	If this is a CERCLA site, give CERCLIS #. Alphanumeric code starting with State Acronym followed by 10 digits (e.g., AK1231231231)
		EDL	V	EDL #	Environmental and Disposal Liabilities database number - DOI list that tracks environmentally contaminated sites (formerly "ECL"). Alphanumeric code: Bureau Code ("5" for NPS) + Region Code + Site # (1 to 4-digit number) - e.g., 5AR1, 5IMR3161
	x	Site_Notes	V	Site Notes	Include other ID numbers from different databases here
SITE GEOLOGIC RESOURCES					
x	x	Commod_Gen	V	Commodity (general)	Metals, Coal, Industrial Minerals, Energy Minerals (e.g., Uranium), Stone (building stone and stone products), Sand and Gravel, Oil and Gas, Geothermal, Water, Unknown
	x	Commod_Specif	V	Commodities (specific)	List by chemical symbol (Au, Ag, Cu, Zn, Pb, Fe, U, etc.), mineral name (talc, wollastonite, barite, etc.), rock/stone type (granite, marble, limestone, sandstone, cinders, etc.), or well commodity (oil, gas, geothermal, water, etc.)
	x	Geology_Notes	V	Notes on geology	e.g., Rock Type (igneous/sedimentary/metamorphic, granite/sandstone/schist); Geologic Formation; Orebody Type (vein, disseminated, massive); Ore Type (sulfide, oxide)
SITE NATURAL RESOURCE IMPACTS					
x	x	NatRes_Impacts	V	Resource impacts in need of mitigation?	Yes/No/Unknown
	x	Effluent	V	Effluent from site?	Yes/No/Unknown
	x	Water	V	Standing water at site?	Yes/No/Unknown

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	x	Water_Tail	V	Water flowing through tailings?	Yes/No/Unknown
	x	Stain	V	Staining on soils/rocks?	Yes/No/Unknown
	x	Sediment	V	Sedimentation into surface waters?	Yes/No/Unknown
	x	Vegetation	V	Characterize vegetation on the disturbed area	Healthy, Struggling, Dead, Nonexistent
	x	Waste_Vol	I	Volume of mine waste (tailings or waste rock / cubic yards)	
	x	Visibility	V	How visible is site from where visitors would be?	High/Medium/Low
	x	Other_Impacts	V	Other impacts	An impact that exists that was not mentioned (specify)
	x	Impact_Notes	V	Notes on resource impacts	
SITE - CULTURAL RESOURCES					
x	x	CultRes_Signif	V	Significant cultural resource values?	Yes/No/Unknown
	x	Register	V	National Register listing or nomination?	Yes/No/Unknown (National Register of Historic Places, National Natural Landmark, National Historic Landmark)
	x	Landscape	V	Has the park declared this a cultural landscape?	Yes/No/Unknown
	x	Eligible	V	Eligible for National Register listing?	Yes/No/Unknown (Is it possible, or has it been determined under a Determination of Eligibility (DOE), that this site is eligible for listing in NRHP, NNL, or NHL?)
	x	Interpret	V	Is site interpreted?	Yes/No/Unknown (interpretive sign, brochure, etc.)
	x	Cult_Notes	V	Notes on cultural values	
FEATURE IDENTIFICATION / STATUS - GENERAL					
x	x	NPS_ID	V	Servicewide Identification Code	NOT AN INPUT FIELD. GENERATED AUTOMATICALLY BY DATABASE FROM INPUT DATA: <Park_ID>-<Site_Name>-<Feature_Type>-<number (assigned sequentially by database)> (e.g., DEVA-Skidoo-OS-01, NERI-Kaymore-AD-03). Unique to each feature.
	x	Park_ID	V	Park Identification Code	Park's verbatim in-house identification code. If park has its own database and nomenclature, we want to be able to link that to the Servicewide Database. Some parks have multiple features listed under one identifier. The Servicewide Database separates these out with a unique NPS_ID for each feature.

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		Detail 2			
x	x	Feature_Type	V	Feature Type	What is this feature? Adit, Shaft, Incline, Tunnel, Open Stope, Glory Hole (includes subsidence), Vent Raise, Prospect, Surface Mine, Highwall, Ore Pile, Waste Rock, Tailings, Topsoil (stockpile), Building, Structure, Equipment, Road (including mine access bench needing reclamation), Well, Water Impoundment, Unknown, Other – [SEE DETAILED LIST]
x	x	Action_Required	V	Action Required	Yes/No/Unknown - Is action required for this feature other than monitoring?
x	x	High_Risk	V	High Risk	Yes/No/Unknown - Is this feature on the "high risk" list as identified by the Director's 10/02/08 memorandum? (Director Bomar's 10/02/08 memorandum was in response to the DOI Inspector General's July 2008 Audit Report of the NPS and BLM AML Programs. The IG called for prompt closure of all "high-risk" sites. Risk is determined by each park based on degree of danger and likelihood of visitation.
	x	Source	V	Data Source	General text field - staff person, literature, etc.
	x	Rev_Date	D	Revision Date (MM/DD/YYYY)	Update this field every time you make a revision. Database provides pop-up date-picker calendar.
	x	Feature_Notes	V	Feature Notes	If "other," describe: e.g., drill hole, trench, arrastra. Use this field for any necessary additional feature description.
FEATURE ACCESS					
	x	Method	V	Access Method	Paved Road, Improved Dirt Road, 4WD Road, Hike, Boat, Helicopter
	x	Dist_road	F	Distance from drivable road (tenths of miles)	Straight-line distance if cross-country; distance on path if path is near site
	x	Dist_path	F	Distance from established path (tenths of miles)	If a road is closer than a path, enter the distance from the road.
	x	Published	V	Where is location published	Map (e.g., symbol on USGS topo map, or indicated on other map), Brochure, Book, Internet, Not Published, Unknown
	x	Wilderness	V	Is feature in designated wilderness	Yes/No/Unknown
	x	Evid_Visit	V	Evidence of visitation	None, Moderate (some trash, footprints), High (lots of trash, etc. or site is known to have high visitation), Underground Access (graffiti, trash, footprints, etc., within mine workings)
	x	Access_Notes	V	Notes on Access	
FEATURE GEOGRAPHIC DESCRIPTION					
	x	Quad	V	Quadrangle Name	USGS Quad Map Name
x	x	Lat_ddeg_NAD83	F	Latitude North	NAD83 decimal degrees - 6 decimal places (NOTE: All new data should be entered in NAD83 LAT/LONG DECIMAL DEGREES, preferably to 6 decimal places if we actually have that degree of accuracy (~ 1 meter). UTM and Public Land Survey System (PLSS: Township/Range/Section) data fields are only to retain historic data where we have not yet updated with recent GPS readings.

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x	x	Long_ddeg_NAD83	F	Longitude West	NAD83 decimal degrees - 6 decimal places
	x	Elevation	V	Elevation	Feature elevation, given in feet.
x	x	Location_Accuracy	V	Location Accuracy	Location Information Accuracy - Differential GPS, Uncorrected Feature Coordinates, General Site Coordinates, Topo Symbol, Imagery (aerial photo, satellite, etc.), X on map, ¼ Section, Section
	x	GPS Year	I	GPS Year	Year of GPS reading
	x	Aspect	V	Aspect	Direction of slope where feature is situated. Lookup Table: N, NE, E, SE, S, SW, W, NW, V (vertical). This can have great significance in predicting potential habitat, particularly in underground mines, e.g., a south-facing shallow adit is unlikely to support hibernation.
x	x	Boundary	V	Within park boundary?	Yes/No/Unknown - Within park boundary? (Some sites straddle the park boundary with features inside and outside of the park. Many parks record sites just outside their boundaries that may require management attention / resources. We don't want to lose track of that data, but need to be able to separate them out as not being our ultimate responsibility.)
		UTM_N	F	UTM North	UTM Northing (meters)
		UTM_E	F	UTM East	UTM Easting (meters)
		UTM_Zone	I	UTM Zone	UTM Zone (1 to 60)
		Meridian	V	Meridian	Principle Meridian
		Township	V	Township	PLSS Township - Enter N or S after number
		Range	V	Range	PLSS Range - Enter E or W after number
		Section	I	Section	PLSS Section - 1 to 36
		Quadrant	V	Quadrant	PLSS Quadrant / quarter-section description - NE, SE, SW, NW
FEATURE DIMENSIONS					
	x	Feature_Dim_X	F	Shaft width 1 / Pit width 1 / Adit width / Trench width (feet)	
	x	Feature_Dim_Y	F	Shaft width 2 / Pit width 2 / Adit height / Trench length (feet)	
	x	Feature_Depth	F	Shaft depth / Pit depth / Adit length / Trench depth (feet)	
	x	Distub_Area	F	Area of disturbance around feature (square feet)	Some parks include measurements on the disturbed area immediately surrounding each feature, either by total area (Disturb_Area) or by length x width dimensions (Distub_Length x Disturb_Width). These fields are not to be confused with total site area (Site_Acres), although they may be the same for single-feature sites.
	x	Distub_Area_L	F	Disturbed Area Length (feet)	
	x	Disturb_Area_W	F	Disturbed Area Width (feet)	
FEATURE BIOLOGICAL RESOURCES					
x	x	BiolRes_Signif	V	Significant biological resource values?	Yes/No/Unknown

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	x	Species_TE	V	T & E species present?	Yes/No/Unknown
	x	Species_Concern	V	Other species of concern present?	Yes/No/Unknown (e.g., former Category 2 Species, State-listed species, or significant habitat for common species)
	x	Bats	V	Bats (or evidence of bats) observed?	Yes/No/Unknown (Bats are singled out because they so often determine closure type, making this a good field on which to search.)
	x	Biology_Notes	V	Notes on biological issues present	
FEATURE HAZARDS					
x	x	Hazards	V	Hazards in need of mitigation?	Yes/No/Unknown
	x	Debris	V	Debris at this feature?	Yes/No/Unknown
	x	Highwall	V	Highwall present?	Yes/No/Unknown
	x	Flooded	V	Flooded, or evidence of flooding?	Yes/No/Unknown (Flooded shaft, seasonally flooded shaft, or impoundments inside adit that trap water?)
	x	Explosives	V	Explosives present?	Yes/No/Unknown
	x	Bad_Air	V	Bad air present or documented previously?	Yes/No/Unknown [Note that this can change from visit to visit.]
	x	Subsidence	V	Areas of subsidence or collapse?	Yes/No/Unknown (e.g., slump zones on the surface, underground collapses, or slope failure caused by feature)
	x	Fire	V	Evidence of underground fire?	Yes/No/Unknown (Includes coal mine fires, burned timbers, campfire ring, etc. underground)
	x	Hazsub	V	Hazardous substances (other than explosives) present?	Yes/No/Unknown
	x	Haz_Notes	V	Notes on hazards	
FEATURE MITIGATION REQUIRED - SPECIFIC					
	x	Temp_Safe	V	Temporary safing method required	Sign, Fence, Administrative Closure, etc.
	x	Mitig_Prop	V	Mitigation Proposed	Proposed long-term mitigation technique - Backfill, PUF, Bulkhead, Gate, Batgate, Grate, Fence, Blasting, Cablenet, Reclamation, Structure Removal, Structure Stabilization, Sign, Other, No Action
		Prop_Cost	F	Estimated cost of proposed mitigation	
		Prop_Cost_Year	I	Year of mitigation cost estimate	
		PMIS	V	PMIS number	Numeric identifier with alpha components noted
		FMSS_Asset_ID	N	FMSS Asset ID	Facility Management Software System Asset ID - numeric identifier
	x	Mitig_Req_Notes	V	Notes on mitigation required	
FEATURE MITIGATION COMPLETED - SPECIFIC					

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	x	Nat_Recl	V	Natural Reclamation	Yes, No, Unknown - Is the feature naturally reclaiming such that no work is required?
	x	Temp_Safe_Used	V	Temporary safing method used	Recovery Act Reporting Field - Sign, Fence, Fence and Sign, Administrative Closure, Other
	x	Temp_Safe_Date	D	Date of temporary closure (MM/DD/YYYY)	Recovery Act Reporting Field - Database provides pop-up date-picker calendar.
	x	Mitig_Used	V	Mitigation technique used	Recovery Act Reporting Field - Backfill, PUF, Bulkhead, Gate, Batgate, Grate, Fence, Blasting, Cablenet, Reclamation, Structure Removal, Structure Stabilization, Sign, Other, No Action
	x	Mitig_Date	D	Date feature was reclaimed/mitigated (MM/DD/YYYY)	Recovery Act Reporting Field - Database provides pop-up date-picker calendar.
		Mitig_Cost	F	Cost of mitigation (\$)	Recovery Act Reporting Field - May need to estimate proportion of multi-opening projects
		Mitig_Funds	V	Source of funding	NRPP, Recovery Act, Fee Program, GRD, State, Park Base, Region, OSM, Other
		Mitig_by	V	Who mitigated the feature?	Who performed the mitigation work? NPS (in-house job), Contractor (NPS-hired contractor), State (State-hired contractor), Other
		Partners	V	What partners were used?	Federal, State, Industry, Volunteers, Other (e.g., conservation groups), None
	x	Mitig_Compl_Notes	V	Notes on completed mitigation	(list partners, if applicable)
FEATURE SAMPLE AND RANKING DATA (refer to Ranking System Guide, below)					
	x	Water_Samp	V	Was water sampled?	Yes/No/Unknown
	x	pH_Effl	F	pH of effluent (to nearest tenth)	
	x	pH_bg	F	Background pH (to nearest tenth)	
		Water_Contam	V	Elevated contaminant levels in the water?	Yes/No/Unknown
	x	Soil_Samp	V	Soils / tailings / waste rock sampled?	Yes/No/Unknown
		Soil_Contam	V	Elevated contaminant levels in the soil?	Yes/No/Unknown
	x	Contam_Notes	V	Notes on contamination	
	x	Hazard_Rating	I	Danger associated with hazards	5/4/3/2/1/0 (See Ranking System Guide)
	x	Workings_Extensive	I	Are underground workings extensive (> 500' or multilevel)?	Yes = 1, No = 0 (This adds a point to the overall hazard ranking for more complex sites.) (See Ranking System Guide)
	x	Access_Rating	I	Difficulty of access	5/4/3/2/1/0 (See Ranking System Guide)
	x	Resource_Rating	I	Importance of resource	4/2/0 (See Ranking System Guide)
	x	Impact_Rating	I	Severity of resource impacts	4/2/0 (See Ranking System Guide)
FEATURE MONITORING					

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Detail 2					
	x	Monit_Date	D	Monitoring Date (MM/DD/YYYY)	Date of Observation. Database provides pop-up date-picker calendar.
	x	Monit_Observation	V	Monitoring Observation	Notes for each date
RANKING SYSTEM GUIDE					
		Points	Description		
Hazard Rating (possible score: 0 to 5)					
	5	<ul style="list-style-type: none"> Any coal mine Vertical shafts, winzes, or underhand collapsed stopes > 6' Irrespirable air Instantaneous fatal injury could occur due to mine-related hazard 			
	4	<ul style="list-style-type: none"> Large unstable structures Deep pools of water from which it would be difficult to climb out. Potential fatal injury could occur Major collapse zones 			
	3	<ul style="list-style-type: none"> Radiation potential Large stopes overhead - seemingly stable Highwalls > 10' drop-off not apparent from above Serious injury could occur 			
	2	<ul style="list-style-type: none"> Highwalls > 10' - drop-off apparent from above Rubble around but rock is generally stable Moderate injury could occur 			
	1	<ul style="list-style-type: none"> Minimal injuries could occur like tripping, bumping head, cutting oneself Highwalls < 10' in area where such drop-offs are common naturally Minimal injury possible 			
	0	<ul style="list-style-type: none"> No inherent hazards; no injury potential above normal condition 			
	Workin gs_	If underground mine feature is extensive (i.e., known to have over 500' of workings or multiple levels), 1 point will be added to hazard rating by entering "YES" in this field.			
Access Rating (likelihood of visitation - possible score: 0 to 5)					
	5	Good road with mine as the specific destination; car accessible			
	4	Good dirt road, but mine is not specific destination			
	3	Dirt road or path without specific destination; no car access; easy hiking access < 1 mile			
	2	Near a road/path (within 1 mile); Easy hike > 5 miles or moderate hike < 5 miles			
	1	> 1 mile from road/path; Moderate hike > 5 miles or hard hike < 5 miles			
	0	Hard hike > 5 miles; site not easily seen			
Resource Rating (possible score: 0, 2, or 4)					
	4	Endangered species present or site is listed on National or Local Historic Register			
	2	Species of concern present or site has significant cultural values			
	0	No species of concern present and site has minimal cultural value			
Impacts Rating (possible score: 0, 2, or 4)					
	4	Highly elevated contaminants or greatly altered pH in water/soils; High visual impact			
	2	Moderately elevated contaminants or pH alteration in water/soils; Moderate visual impact			
	0	Minimal contaminants or pH alteration in water/soils; Minimal visual impact			
TOTAL RANKING SCORE					Hazard_Rating + Workings_Extensive + Access_Rating + Resource_Rating + Impact_Rating (Possible score = 0 to 19)