

Appendix 4B

Past, Present, and Reasonably Foreseeable Projects, Developments, Disturbances, and Activities

PROJECT, DEVELOPMENT, DISTURBANCE, OR ACTIVITY	LOCATION (COUNTY, T/R SECTION, ETC.)	PROJECT TYPE	BRIEF DESCRIPTION	ACREAGES OR OTHER QUANTITY	WITHIN CIA	STATUS	SOURCE
	Unincorporated Maricopa County	Community Development	Planned development includes: Coyote Trails, Asante West, Broadstone Ranch, Warrick Properties, Roesner Ranch, Lake Pleasant, Grande Oasis, Peak View Estates Unit 2 and 3, Trail of Light, Walden Ranch, Rancho Maria, and Lake Pleasant Vistas.			Future	
City of Peoria	Peoria, Maricopa County	Community Development	Future large-scale master-planned projects are in various stages of design. One of these projects, West Wing Mountain, includes the dedication of hillside areas for public open space. Planned development includes Saddleback Heights, Quintero, Vistancia, Marisol Ranch, <u>Cholla Hills</u> , and Lake Pleasant Heights. Other developments include commercial projects such as Lake Pleasant Pavilions, Mountainside Crossing, Happy Valley Town Center, and the Peoria Regional Hospital. <u>Peoria has a Municipal Planning area of approximately 233 square miles and a population of 154,065 (City of Peoria 2013).</u>			Past, Present, Future	City of Peoria 2010
City of Surprise	Surprise, Maricopa County	Community Development	City of 115,000 people was just one square mile of farmland back in 1938 when Flora Mae Statler founded it. Planned development includes Grand Vista (see Housing Development).	23,370 acres of residential zoning; 243 acres for future commercial development		Past, Present, Future	

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Town of Buckeye	Buckeye, Maricopa County	Community Development	As of the census of 2010, there were 50,876 people residing in the town. As of the census of 2000, there were 2,158 households, and 1,624 families residing in the town. The population density was 44.8 people per square mile. There were 2,344 housing units at an average density of 16.1 per square mile. There are currently nearly 30 master planned communities planned for Buckeye. Such master planned communities under development in which homes are occupied include Sundance, Verrado, Westpark, Tartesso and Festival Ranch. Other unbuilt planned communities within Buckeye include Douglas Ranch (planned for nearly 300,000 inhabitants), Grand Vista, Sun Valley Villages, Spurlock Ranch, Trillium, Elianto, Westwind, Silver Rock, Sienna Hills, Henry Park, Southwest Ranch and Montierre. Sundance Towne Center, a shopping center developed by Vestar Development in the Sundance community, opened in 2007.	2,175 acres of future development		Past, Present, Future	
69kV Line	Maricopa County	Energy	Two 69kV transmission lines are present within the study area, primarily in developed and rural-residential areas along portions of U.S. 60 (Grand Avenue) and parallel to the Sun Valley Parkway.	40 foot ROW		Existing	

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Cotton Center Solar Plant	Gila Bend, AZ	Energy	The solar plant sits on former agricultural land in Gila Bend's Solar Overlay Zone. The Zone is a designated geographic area that allows the permitting process for photovoltaic projects to be fast tracked. The plant's 75,168 photovoltaic panels will be placed in 522 rows and follow the sun across the sky using a single-axis tracking system. The energy produced will connect to the electric grid through a 12kV line at the Cotton Center Substation located only 1/2 mile north of the project.	145 acres	SocioEc only	Existing	APS website and www.pv-tech.org/projectfocus/cotton_center_arkansas
Glendale Energy Power Plant	City of Glendale	Energy	The Glendale Energy Power Plant came online in 2010; it is the first energy from biogas plant for APS. The decomposition of organic materials at landfills creates a highly-flammable gas consisting mainly of methane. Instead of simply burning the gas for safety reasons the Glendale Energy Power Plant uses the biogas as fuel for two large combustible engines, similar to automobile engines. However, at the power plant, the engines are much larger and instead of turning wheels, the engine turns a shaft connected to a generator that produces electricity. Landfill gas is one of the few renewable energy sources that is not intermittent, giving it the ability to produce electricity 24 hours a day.		SocioEc, Air	Existing	APS website
Humbug Substation	near SR 74 and 99th Avenue	Energy	Distribution substation with 69kV and 12kV facilities.	0.55 acres	All	Existing	
Lakeside Substation	north of Cloud Road along New River Road	Energy	Distribution substation with 69kV and 12kV facilities.	Approx. 1.4 acres developed	All	Existing	

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Luke Air Force Base Solar Project	Glendale, AZ, north of Phoenix	Energy	The plant will use 52,000 high-efficiency SunPower solar panels. A single-axis tracking system will allow the panels to follow the sun across the sky, capturing 25 percent more energy than if the panels were stationary. The plant's 14-megawatt capacity is equivalent to the energy needs of 3,500 Arizona homes or 50 percent of the Base's energy needs. 14 megawatts. Commercial operation is expected in 2012/2013. Cultural excavations currently underway.	101 acres	Air Resources, SocioEc	Future	APS website; ww.bloom berg.com
Mead to Eastwing 500 kV Transmission Line (WAPA)	Maricopa County	Energy	A single 500 kV line originates from the southwest and extends east along the southern portion of the study area to the Westwing Substation. Western Area Power Administration.	200 foot ROW		Existing	
Morgan Substation	30 miles northwest of Phoenix; west of New River Road along Cloud Road	Energy	Regional Extra High Voltage substation containing both 500kV and 230kV facilities operated by APS	75 acre site (59 acres developed)		Existing	
Morristown Substation	Southeast of Morristown, near 251st 29 Avenue and U.S. 60/Grand Avenue	Energy	Distribution substation with 69kV and 12kV facilities.	1.4 acres	SocioEc, Air, Golden Eagles, Visual	Existing	
Navajo to Westwing 500kV Lines (APS)	Maricopa County	Energy	Two 500kV transmission lines originate to the north of the study area and cross the eastern portion, extending south and passing the Morgan and Raceway substations before terminating at the Westwing Substation.	330 foot ROW		Existing	

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New Waddell to Westwing 230kV Line (WAPA)	Maricopa County	Energy	One 230kV transmission line originates at the Humbug substation near Lake Pleasant and continues south, passing Morgan and Raceway substations before terminating at the Westwing Substation. Western Area Power Administration.	150 foot ROW		Existing	
Oberlin Substation	near Patton Road and 243rd 28 Avenue	Energy	Temporary Sub-Transmission substation with 69kV and 12kV facilities.	2.2 acres		Existing	
Palo Verde Nuclear Generating Station	About 55 miles west of downtown Phoenix	Energy	The Palo Verde Nuclear Generating Station has been the largest power producer of any kind in the United States since 1992. Its three units are capable of generating more than 4,000 megawatts of electricity. Because of its desert location, Palo Verde is the only nuclear plant in the United States that does not sit on a large body of water. Instead, it uses treated effluent from several area municipalities to meet its cooling water needs, recycling approximately 20 billion gallons of wastewater each year. Palo Verde, which has an economic impact of approximately \$1.8 billion annually and is the largest single commercial taxpayer in Arizona, is operated by APS and is owned by a consortium of seven utilities in the Southwest. APS owns 29.1 percent of the plant.		SocioEc	Existing	APS website
Palo Verde to Westwing 500 kV Transmission Lines (SRP)		Energy	Two 500 kV lines originate to the south of the study area and then extend east, parallel to the Western line, to the Westwing Substation.	330 foot ROW		Existing	

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Paloma Solar Project	Gila Bend	Energy	The 17 megawatt Paloma Solar Plant sits on land that was formerly an alfalfa farm. The land is within the town of Gila Bend's Solar Field Overlay Zone. The plant will use 275,000 thin-film photovoltaic panels mounted on fixed-tilt steel frames. This marks the first time APS is using thin-film technology for one of its solar plants. Energy will go on the grid at the Cotton Center substation located 1.5 miles north of the power plant. Construction completed November 2011.		SocioEc	Existing	APS website
<u>Palo Verde to Sun Valley</u>	<u>Begins at Palo Verde Generating Station to southwest portion of Project Area</u>	<u>Energy</u>	<u>APS has planned and completed the permitting for a new approximately 43 mile long 500kV transmission line from the Palo Verde Generating Station area to the future Sun Valley Substation (through the future Delaney Substation).</u>	<u>200-foot ROW</u>	<u>All</u>	<u>Future</u>	<u>APS</u>
Raceway Substation	near SR 74 and 99th 24 Avenue	Energy	High Voltage substation containing 230kV, and 69kV facilities.	10 acre site (7 acres developed)	All	Existing	
Redhawk Power Station	Located near the Palo Verde Nuclear Generating Station west of Phoenix	Energy	The Redhawk® Power Station, which began operating in mid-2002, is comprised of two identical 530-megawatt natural gas-fueled combined-cycle units. The plant is owned and operated by APS. The station employs treated effluent purchased from Palo Verde to meet its cooling needs. Redhawk also is a zero liquid discharge site, meaning that the cooling water is continually reclaimed and reused and no water is released to the environment.		SocioEc	Existing	APS website

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Solana Generating Station	Gila Bend	Energy	This solar generating station will generate 250 megawatts. It will cover 3 square miles and contain 2,700 parabolic trough collectors. Located on what is currently agricultural land, the power plant will use 75 percent less water than the current use of the property. Solana will use Concentrating Solar Power (CSP) technology with thermal energy storage. CSP technology uses heat from the sun to generate electricity; parabolic mirrors will focus the sun's heat on a heat transfer fluid. The fluid could reach temperatures as high as 735 degrees Fahrenheit. To produce electricity, the hot fluid transfers its heat energy to water, creating steam. The steam is then used to run conventional steam turbines. Large thermos-like buildings containing molten salt will be located next to the steam boilers. At select times, instead of immediately creating steam, the heat transfer fluid will heat the molten salt. Then, if electricity is needed when the sun is not shining, the fluid can be heated by running it through the hot salt instead of through the mirrors. Using this process, electricity can be made from heat energy that was created up to six hours earlier. Permitting began in 2008 and has a tentative operation date in 2013	3 square miles 1,900 acres	SocioEc	Future	APS website
Sonoran Generating Station	South of Buckeye	Energy	300 MW photovoltaic solar power plant	4,000 acres	SocioEc, Air	Future	Wikipedia

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Star Solar Project	Tempe and other areas	Energy	STAR opened in 1985; other small solar facilities built between 1997 and 2006. The STAR Center is both a laboratory and power plant. Here Arizona Public Service works with manufacturers, universities and government labs in finding technological advancements in converting solar energy into electricity. The 33-acre park is one of the most advanced solar testing sites in the world. The many solar technologies at the site include single-axis tracking photovoltaic systems; high concentration photovoltaic solar systems and tilted tracker photovoltaic systems. In 2009, STAR became the outdoor testing location for TUV Rheinland PTL, the internationally recognized solar equipment testing and certification organization.	33 acres	SocioEc, Air Resources	Future	APS website
Sun Valley Substation	northwest of Sun Valley Parkway	Energy	Approved Extra High Voltage substation. Will have both 500kV and 230kV facilities. Scheduled to be in service by 2015.	99 acre site (57 acres to be developed for phase I)	All	Future	
Sun Valley to Trilby Wash to Palm Valley Double-circuit 230kV Line (APS)	Maricopa County	Energy	A 230kV transmission line is approved but not yet constructed and will travel east-west between the future Sun Valley Substation and the future Trilby Wash Substation, parallel to the existing east-west running 500kV transmission lines generally to the south of the study area. Previously known as West Valley North. Also, as Sun Valley to TS1 and Palm Valley to TS 2 to TS1.	ROW between 100-150 feet	All	Future	

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Sundance Generating Station	Coolidge, southeast of Phoenix	Energy	The Sundance Generating Station in Coolidge, Arizona, is the newest member of the APS fleet. APS purchased the 450-megawatt station in the Spring of 2005. The simple-cycle, natural gas-fueled station consists of 10 quick-start combustion turbines.		SocioEc, Air Resources	Existing	APS website
Trilby Wash Substation	North of Deer Valley Road near 203 rd Avenue	Energy	Approved High Voltage substation. Will have 230kV and 69kV facilities. Scheduled to be in service by 2015.	Approx. 20 acres		Future	
West Phoenix Power Plant	Located in southwest Phoenix	Energy	West Phoenix is a natural gas-fueled Power Plant has seven generating units - two combustion turbine units and five units that employ combined-cycle technology. Operated and owned by APS, West Phoenix generates about 1,000 megawatts of electricity.		SocioEc, Air Resources	Existing	APS website
Westwing Substation	North of Sun City West, near Hwy 303	Energy	Regional Extra High Voltage substation containing facilities at 500kV, 345kV, 230kV, 69kV and 12kV. This facility is operated by APS with participation from SRP, Western, and TEP.	Approx. 136 Acres developed	SocioEc, Air, Golden Eagle	Existing	
Castle Hot Springs Management Unit Travel Mgmt and Recreation Activity Plan / EA	North side of SR 74	Environmental Assessment	This plan would designate routes and guide recreation management on BLM administered lands north of SR 74.	N/A	All	Future	BLM, Phoenix District Office

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Grazing Term Permit Renewals	BLM and State lands	Grazing	Currently term permits are being issued and are anticipated to continue to be issued in accordance with Title 43 CFR 4130.2(a), "Grazing permits or leases shall be issued to qualified applicants to authorize use on the public lands and other lands under the administration of the Bureau of Land Management that are designated as available for livestock grazing through land use plans." These permit renewals are based on a determination of achievement of the Standards and Guidelines for grazing. Based on this determination changes may or may not be made to these permits.	39,802 acres of BLM land and 85,308 acres of State Trust land	All	Past, Present, Future	BLM
Alta Vista Estates	City of Surprise, Southeast of Westwing substation	Housing Development			SocioEc, Air	Past, Present, Future	
Broadstone Ranch	City of Surprise	Housing Development	See Village 6		SocioEc, Air	Future	
<u>Cholla Hills</u>	<u>City of Peoria</u>	<u>Housing and Recreational Development</u>	<u>The planned development would contain two parcels. Parcel 1 would be developed with a commercial, resort, and residential concept or as an RV resort and commercial development. Parcel 2 would be developed as a traditional 240-room resort with ancillary residential and commercial uses.</u>	<u>454</u>	<u>2-mi Buffer SocioEc Air Visual</u>	<u>Future</u>	<u>Rezoning Report to the Planning and Zoning Commission, 2012</u>

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Festival Ranch	Town of Buckeye	Housing Development	Sun City Festival is located on 3,300 acres in north Buckeye, about 45 miles northwest of Phoenix, Arizona. Sun City Festival is part of the Lyle Anderson Festival Ranch master-planned community, which sits on 10,000 acres. The Sun City Festival Marketplace, a shopping complex which includes a grocery store, is located at the entrance to Sun City Festival.	10,000 acres	All	Present, Future	
Grand Oasis Estates	City of Surprise	Housing Development	See Village 6		SocioEc, Air	Future	
Grand Vista	City of Surprise but near Wittmann	Housing Development	Planned community of 16,500 homes slated for the former DaimlerChrysler proving grounds in north Surprise; development expected to start by 2010. The open space plan includes about 756 ac.	5,500 acres	All	Future	
<u>Lake Pleasant Heights</u>	<u>City of Peoria</u>	<u>Housing Development</u>	<u>The master planned community would contain a mixture of estate, low, medium, medium high, and mixed use residential land uses, including public recreation areas and open space.</u>	<u>3,268</u>	<u>All</u>	<u>Future</u>	<u>Specific Area Plan 2012</u>
Patton Place Estates	West-southwest Wittmann; on north side of Patton Road, between Lone Mtn and Patton roads	Housing Development	Planned community in Wittmann, Arizona.		All	Past, Present	
Quintero Multiple	Hieroglyphic Mtns, 16752 West State Route 74, Peoria	Housing Development	Housing development and golf course. Vacation lodging with golf course and adjacent hiking, biking & walking trails nearby. <u>This development is entitled for 283 dwelling units and covers 828 acres.</u>	<u>828 acres</u>	All	Past, Present, Future	

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Rancho Cabrillo	City of Surprise	Housing Development	Rancho Cabrillo is a typical residential development with densities in the 3-5 du/acre range. The Low Density Residential land use category is very appropriate for this area and will support the type of Development.		SocioEc, Air	Present, Future	
Rancho Maria	Wittmann	Housing Development	Planned community of 383 housing units.	129 acres	All	Future	
Saddleback Heights	City of Peoria	<u>Planned Community</u>	Master planned community in Peoria, Arizona. This enclave-style development will <u>include commercial and mixed use</u> , featuring two golf courses, a variety of neighborhood parks, offices and an extensive trail and bike system.	5,296 acres	All	Past, Present, Future	
Village 6	Maricopa County, Part of Surprise, Arizona	Housing Development	Village 6 is located in the western region of the Surprise planning area. All of Village 6 is currently located within unincorporated Maricopa County. With a population of 2,337 in an area of 43 sq. miles, this area maintains a rural lifestyle with equestrian properties. The community of Wittmann is located in Village 6. Several master planned communities are in various stages of development including Broadstone Ranch, Grand Oasis, Rancho Maria, Walden Ranch, Trail of Light, Peak View Estates, Asante West, and Patton Estates. Major streets include US-60, Patton Road, Jomax Road. Very little infrastructure exists in Village 6.		SocioEc, Air	Past, Present, Future	

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Vistancia – Shea Homes (includes Trilogy and Blackstone developments)	South of Peoria	Housing Development	An all-encompassing community complete with schools, shopping, and recreation. In addition to the age-restricted Trilogy neighborhood, Vistancia is comprised of the family-friendly Vistancia Village and exclusive Blackstone Country Club. Situated north of the 303 transit corridor, residents find the perfect blend of new construction amenities and uncongested roadways combined with easy access to area attractions. Amenities include an aquatic park, golf set within tall native grasses, the Discovery Trail, top-rated schools plus great shopping, dining and entertainment. Trilogy at Vistancia in Peoria is an age-restricted active adult enclave in the award winning Vistancia master planned community. It caters to buyers with refined tastes for upscale active living in a luxurious resort-style setting.	7,100 acres	SocioEc, Air, Visual, Golden Eagle	Past, Present, Future	
White Peak Ranch Project	Northwest corner of Dysart Road and Dixileta Drive, Peoria	Housing Development	Proposed 189 unit detached single-family residential community that includes open spaces and natural open spaces within a context of a common design theme.	60 acres	SocioEc, Air	Future	Vistas at White Peak 2004
Arizona Proving Grounds	Wittman, Southeast of Luke AFB Auxiliary Field #1	Industrial	Vehicle testing grounds. Originally a Volvo facility created in 1985; in 2009 became a Ford facility and renamed. Offers complete services for testing vehicles to outside companies.	1,498 acres	Air, SocioEc	Past, Present, Future	Wikipedia
Chrysler Proving Grounds	City of Surprise	Industrial	Vehicle testing grounds with city traffic course, corrosion-preparation facility, and sun exposure test area for vehicles and components. This property has been sold to home builders/developers.	5,555 acres	All	Past	Wikipedia

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Misc. Rights-of-Way	Maricopa County	Lands	There are numerous rights of way located throughout the study area. Near the western portion of the study area, there are numerous rights of way granted for transmission lines and access roads. Reclamation has multiple rights of way for transmission lines and access roads for the CAP. There are also numerous roads, pipelines, and telecommunication lines in the study area. Near the northern portion of the study area, along SR 74, the Arizona State Highway Department, along with local municipalities, currently have many leases for roads and highways. There are also numerous pipeline, telecommunication, and transmission lines located within the study area which each have associated rights of way. The Quintero Golf and Country Club also lease easements for utilities servicing their facilities (BLM LR2000).			Past, Present, Future	Lands Tech Rpt
Luke Air Force Base	Maricopa County, T4N R3W	Military	Luke Air Force Base is the largest and only active-duty F-16 Fighting Falcon training base in the world with more than 200 F-16s assigned. The host command at Luke is the 56th Fighter Wing (56 FW), under Air Education and Training Command's 19th Air Force.		SocioEc, Air, Transportation	Past, Present, Future	
Sand and Gravel Operations	Maricopa County	Mining	Stone, sand, and gravel mining operations generally occur along the Hassayampa River in the Sun Valley area and along the Agua Fria River.		SocioEc, Air	Past, Present, Future	Geology Tech Rpt
GEM #1	T6N R1W Section 30	Minerals	Active mining claim held by Eileen June Molnar. Serial Number AMC355774.		All	Present	BLM

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GEM #2	T6N R1W Section 30	Minerals	Active mining claim held by Eileen June Molnar. Serial Number AMC355775.		All	Present	BLM
M.R.S. #1	T6N R1W Section 30	Minerals	Active mining claim held by George E. Molnar. Serial Number AMC355777.		All	Present	BLM
M.R.S. #2	T6N R1W Section 30	Minerals	Active mining claim held by George E. Molnar. Serial Number AMC355778.		All	Present	BLM
M.R.S. #3	T6N R1W Section 30	Minerals	Active mining claim held by George E. Molnar. Serial Number AMC355779.		All	Present	BLM
M.R.S. #4	T6N R1W Section 30	Minerals	Active mining claim held by George E. Molnar. Serial Number AMC355780.		All	Present	BLM
M.R.S. #6	T6N R1W Section 30	Minerals	Active mining claim held by George E. Molnar. Serial Number AMC355781.		All	Present	BLM
Misc. Mines	Maricopa County	Minerals	Approximately 20 existing mining sites are scattered throughout the study area with most being concentrated in the northwest portion of the study area. Saleable minerals are located in the southeastern portion of the study area and saleable and leasable minerals are located in the northwest portion of the study area.		All	Past, Present, Future	Lands Tech Rpt
White Rock No 1	T6N R1W Section 24	Minerals	Active mining claim held by Thomas Cummings. Serial Number AMC341552.		All	Present	BLM
White Rock No 2	T6N R1W Section 24	Minerals	Active mining claim held by Thomas Cummings. Serial Number AMC341553.		All	Present	BLM
White Rock No 21	T6N R1W Section 24	Minerals	Active mining claim held by Thomas Cummings. Serial Number AMC341555.		All	Present	BLM
White Rock No 22	T6N R1W Section 24	Minerals	Active mining claim held by Thomas Cummings. Serial Number AMC341556.		All	Present	BLM
White Rock No 23	T6N R1W Section 24	Minerals	Active mining claim held by Thomas Cummings. Serial Number AMC341557.		All	Present	BLM
White Rock No 3	T6N R1W Section 24	Minerals	Active mining claim held by Thomas Cummings. Serial Number AMC341554.		All	Present	BLM

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Adobe Dam Regional Park	At the base of the Hedgepeth Hills north of Phoenix	Recreation	The park is used for activities that require ample space. The land is used by many clubs, including: Arizona Model Pilots Society R/C Airport, Airfield Saguaro Central, Maricopa Live Steamers, Arizona Model Railroading Society, Phoenix Kart Racing Association Race Track, Arizona Karting Association Kart Racing Track, Fort Adobe Paintball Complex. The park includes a 500 Club Championship Golf Course, Victory Lane Sports Complex Ball Fields, and Wet 'n' Wild Phoenix water park.	1,526 acres	SocioEc, Air	Existing	Website http://www.maricopa.gov/parks/adobe/
Ben Avery Shooting Range	4044 W. Black Canyon Blvd. Phoenix. West of I 17 and north of Carefree Highway	Recreation	Public shooting range operated by Arizona Game and Fish Department. Includes a main range and specialty ranges, archery ranges, Olympic style archery range, a clay target center, and a 99-site campground.		SocioEc, Air	Existing	http://www.azgfd.gov/outdoor_recreation/basf_facilities.shtml
Black Canyon SRMA	located north of SR 74 and northeast of the study area	Recreation	The SRMA contains the Black Canyon Hiking and Equestrian RMZ (8,325 acres) and the Table Mesa RMZ (11,050 acres). The Black Canyon SRMA contains the Black Canyon National Trail which provides high quality non-motorized recreation opportunities for hikers, equestrians, and mountain bikers through the Black Canyon Corridor. The Table Mesa RMZ provides for intensive motorized recreation in semi-primitive to roaded-natural recreation settings.	68,730 acres	SocioEc, Air	Past, Present, Future	

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Castle Hot Springs SRMA	north of SR 74 in the northeast portion of the study area	Recreation	This SRMA contains the Hieroglyphic Mountains Resource Management Zone (RMZ) (16,510 acres), Sheep Mountain RMZ (4,270 acres), and the Baldy Mountain RMZ (6,550 acres). The Castle Hot Springs SRMA is managed for motorized and non-motorized recreation and provides opportunities for developed camping, OHV use with single and two-track routes for general motorized recreation use and organized OHV events, horseback riding, bicycling, hiking, and picnicking.	112,430 acres	All	Past, Present, Future	
City of Peoria Parks		Recreation	Sonoran Mountain Ranch Park - 2 ramadas, 2 playgrounds, 2 basketball courts, and walking path. Terramar Park - 2 ramadas, playground, and walking path. Sunset Park 2 ramadas, 3 ball fields, 2 playgrounds, and walking path. WestWing Park - 3 ramadas, skate park, 2 tennis courts, 2 playgrounds, and multi-purpose turf area. <u>Westland Park - 2 ramadas, 2 shaded playgrounds, 1 basketball court, and a multi-purpose turf area.</u>	13 acres 10 acres 16 acres <u>5 acres</u>	Recreation	Existing	Peoria General Plan 2010
Hassayampa SRMA	northwest of the study area	Recreation	This SRMA contains the Stanton (6,050 acres), Wickenburg Community (72,040 acres), San Domingo (16,040 acres), and Vulture Mine (30,100 acres) RMZs. Recreation opportunities within the SRMA include hiking, horseback riding, picnicking, camping, mountain biking, and OHV use.	181,910 acres	SocioEc, Air	Past, Present, Future	

Past, Present, and Reasonably Foreseeable Projects, Developments, Disturbances, and Activities (Continued)

PROJECT, DEVELOPMENT, DISTURBANCE, OR ACTIVITY	LOCATION (COUNTY, T/R SECTION, ETC.)	PROJECT TYPE	BRIEF DESCRIPTION	ACREAGES OR OTHER QUANTITY	WITHIN CIA	STATUS	SOURCE
Hells Canyon Wilderness Area	Maricopa and Yavapai Counties; 25 miles northwest of Phoenix	Recreation	Hells Canyon wilderness area consists of a scenic portion of the Hieroglyphic Mountain Range. Most of the wilderness is covered by Sonoran desert shrub vegetation saguaro, palo verde, barrel cactus, ocotillo, and desert grasses. Several mountains with cliffs offer climbing, and the canyons offer opportunities for hiking and sightseeing. Primitive camping spots are abundant, and plants, animals, and geology provide photographic and viewing opportunities.	9,900 acres	SocioEc, Air	Past, Present, Future	
Hieroglyphic Mountains Special Management Area	north of SR 74	Recreation	The purpose of the Hieroglyphic Mountains Special Management Area (SMA) is to protect the scenic, ecological, cultural, historic and recreational values of the area. The City of Peoria has designated this area as open space in their general plan. The intent of a SMA designation is to ensure that these lands remain in public ownership and to ensure collaborative planning and cooperative management for the area. Several mountains with cliffs offer climbing, and numerous hidden canyons offer opportunities for hiking and sightseeing. Camping spots are abundant, and plants, animals, and impressive geology provide photographic and viewing opportunities along popular trails in the area.	26,100	All	Past, Present, Future	http://www.sonoranheritage.org/proposed_designations/special_areas/hieroglyphic_mountains

Past, Present, and Reasonably Foreseeable Projects, Developments, Disturbances, and Activities (Continued)

PROJECT, DEVELOPMENT, DISTURBANCE, OR ACTIVITY	LOCATION (COUNTY, T/R SECTION, ETC.)	PROJECT TYPE	BRIEF DESCRIPTION	ACREAGES OR OTHER QUANTITY	WITHIN CIA	STATUS	SOURCE
Hieroglyphic Mountains Special Management Area Continued	north of SR 74	Recreation	The Hieroglyphics Mountains Loop—a motorized trail with several access points managed by BLM—meanders through a classic Sonoran desert landscape, including stands of saguaro and cholla cactus and traverses the Arizona desert on existing routes. The loop takes trail users from the Boulders staging area, around the Hieroglyphic Mountains and returns to the staging area.				
Lake Pleasant HMA	located 25 miles northwest of Phoenix, partly within the City of Peoria and partly in unincorporated Maricopa and Yavapai counties	Recreation	BLM manages wild burros in the Lake Pleasant HMA at the minimum population of 30 needed to ensure the herd’s free-roaming character, health, and self-sustaining ability.	81,000 acres	All	Past, Present, Future	BLM 2010
Lake Pleasant Regional Park	15 miles west of Interstate 17 on SR 74, 30 miles from Phoenix, and within the city limits of Peoria.	Recreation	This park has three designated boat launch areas which make the park extremely popular for boating, fishing, water skiing, jet skiing, sailing, and other water sports. The park contains a private marina and restaurant, visitor’s center, nature center, amphitheater, 14-day use areas, and three designated pedestrian trails. The park offers 148 developed and semi-developed sites that are designated for recreational vehicle and tent camping. Additional recreation opportunities in the park include hiking, camping, wildlife viewing, photography, picnicking, and swimming.	23,662 acres	All	Past, Present, Future	

Past, Present, and Reasonably Foreseeable Projects, Developments, Disturbances, and Activities (Continued)

PROJECT, DEVELOPMENT, DISTURBANCE, OR ACTIVITY	LOCATION (COUNTY, T/R SECTION, ETC.)	PROJECT TYPE	BRIEF DESCRIPTION	ACREAGES OR OTHER QUANTITY	WITHIN CIA	STATUS	SOURCE
Maricopa County Regional Trail System	Maricopa County	Recreation	Maricopa County Regional Trail System links open space projects and trail systems into one big loop around the County. Many of the trail corridors identified in the plan are under the jurisdiction of Federal, State, and Local agencies other than Maricopa County. The County's goal is to work in partnership with agencies to facilitate the connectivity, funding, design, and construction of the trail network. The project will capitalize on existing ROWs such as canals, parks, utility corridors, and flood control projects.	The Maricopa County Regional Trail System is 1,521 miles total. The Maricopa Trail is 240 miles long.	All	Past, Present, Future	http://www.maricopa.gov/parks/MaricopaTrail/Faq.aspx
Surprise City Parks		Recreation	Marley Community Park - 2 softball fields, tot lot, amphitheater, water play area, and armadas. Surprise Community Park - 8 ball courts, lake, playgrounds, ramadas, dog park, stadium, tennis and racquet facility, skate park, and baseball facility. Surprise Farms Community Park - 4 ball fields, open green spaces, and walking path. Asante Community Park - 3 ball fields, 4 basketball goals, picnic area, and 2 playgrounds.	Marley Park 25 acres Surprise 195 acres Surprise Farms 57 acres Asante Park 50 acres	Recreation	Existing	Surprise Parks and Trails Master Plan 2008
The Boulders Staging Area	located in the study area north of SR 74	Recreation	This area is designated an OHV area on a mix of BLM, State Trust, and private land. The area contains numerous OHV trails that traverse the area between Lake Pleasant to the east, Wickenburg to the west, and Prescott National Forest to the north. All OHV travel is limited to existing trails, and a recreation permit is required to access State Trust lands. Amenities within the staging area facility include camping facilities, a rest room, and an information kiosk.	Part of Hieroglyphic Mtns SMA	All	Past, Present, Future	Arizona Game and Fish Department 2011

Past, Present, and Reasonably Foreseeable Projects, Developments, Disturbances, and Activities (Continued)

PROJECT, DEVELOPMENT, DISTURBANCE, OR ACTIVITY	LOCATION (COUNTY, T/R SECTION, ETC.)	PROJECT TYPE	BRIEF DESCRIPTION	ACREAGES OR OTHER QUANTITY	WITHIN CIA	STATUS	SOURCE
Vulture Mountain ACEC	northwest of the study area	Recreation	The ACEC was designated to protect the cliffs along the Vulture and Caballeros Peaks which provide essential habitat and nesting habitat for many raptor species. The ACEC is managed to protect wildlife values and maintain biological diversity.	6,120 acres	Socio, Air	Past, Present, Future	
Vulture Mountain Regional Park	Mountain range west of Morristown	Recreation	Horseback riding, hiking, mountain biking, primitive tent and recreational vehicle camping, wildlife viewing, and hunting. Recreational and competitive OHV use.		Socio, Air	Past, Present, Future	
White Tank Mountain Regional Park	located north of the Town of Buckeye, east of the City of Surprise, and southwest of the study area	Recreation	Recreation activities in the park include cultural resource viewing, hiking, biking, horseback riding, picnicking, photography, and backcountry camping. The park offers approximately 25 miles of multi-use trails that range in length from 0.9 mile to 7.9 miles. In addition, the park offers an approximately 10-mile Competitive Track trail designed for challenging, high-speed outdoor recreation activities for individuals, groups, and organized events.	about 30,000 acres	Socio, Air	Past, Present, Future	

Past, Present, and Reasonably Foreseeable Projects, Developments, Disturbances, and Activities (Continued)

PROJECT, DEVELOPMENT, DISTURBANCE, OR ACTIVITY	LOCATION (COUNTY, T/R SECTION, ETC.)	PROJECT TYPE	BRIEF DESCRIPTION	ACREAGES OR OTHER QUANTITY	WITHIN CIA	STATUS	SOURCE
State Route 74	From I-17 to US 60, SR 74 passes through Phoenix, Peoria and unincorporated Maricopa County north of Surprise, Maricopa County	Transportation	SR 74 is an east-west Arizona state route that connects I-17 to US 60 just north of Morristown. This State route is 31 miles long, and it serves Lake Pleasant Regional Park in northern Maricopa County. SR 74 also serves as a northern bypass to sections of US 60 in the Phoenix metropolitan area. SR 74 currently has two 12-foot travel lanes with two- to six-foot shoulders. SR 74 serves a critical role in providing access to and from the greater Phoenix area. SR 74 was given a “scenic overlay” in the 1997 Maricopa County Transportation System Plan. This reflects the county’s strong interest in preserving the attractive Sonoran Desert landscape that SR 74 traverses for much of its length. Current efforts include ROW preservation for a potential future freeway facility. Funding for ROW acquisition has been identified in Phase V of the MAG RTP (FY 2026-2031). The ultimate concept for SR 74 is an asymmetrical 10-lane divided, controlled access, suburban freeway.	30.7 miles	All	Past, Present, Future	ADOT SR74 Study
Interstate 10	South of project area from Tonopah to Phoenix	Transportation	No projects in STIP (2011-2014) for Maricopa County.		Socio, Air, Transportation	Past, Present, Future	
Interstate 11 Hassayampa Freeway	Maricopa County, Wickenburg to Casa Grande	Transportation	A new interstate highway that was recently designated as part of a federal transportation bill. I-11 would interconnect Phoenix and Las Vegas, Nevada. It includes a 152-mile section connecting Casa Grande to Wickenburg, west and south of Phoenix.	Unknown	Socio, Air, Transportation	Future	MAG MAGAZINE Aug-Oct 2012 Vol 17 No. 3

Past, Present, and Reasonably Foreseeable Projects, Developments, Disturbances, and Activities (Continued)

PROJECT, DEVELOPMENT, DISTURBANCE, OR ACTIVITY	LOCATION (COUNTY, T/R SECTION, ETC.)	PROJECT TYPE	BRIEF DESCRIPTION	ACREAGES OR OTHER QUANTITY	WITHIN CIA	STATUS	SOURCE
Interstate 17	East of project area from New River to Phoenix	Transportation	I-17 is a Principal Arterial-Interstate. No projects in STIP (2011-2014) for Maricopa County.		Socio, Air, Transportation	Past, Present, Future	
State Route 303L (Estrella freeway)	Between US 60 and I-10, City of Peoria	Transportation	SR 303L is a local state route that creates the outer loop of the Phoenix metropolitan freeway system. SR 303 is located in the southeastern-most portion of the study area and bisects US 60 near Dear Valley Road. The SR 303L corridor will be continuously developed as a new freeway facility throughout the study area. It is proposed by the Arizona Department of Transportation as a high-capacity roadway and will eventually include three general purpose lanes and one High-Occupancy Vehicle (HOV) lane in each direction. New highway construction and capacity improvements in the study area are identified in Phases II, III, IV, and V of the MAG RTP (FY 2011 – 2020). It is currently in the design concept stage.		Socio, Air, Transportation, Visual	Past, Present, Future	City of Peoria 2005

Past, Present, and Reasonably Foreseeable Projects, Developments, Disturbances, and Activities (Continued)

PROJECT, DEVELOPMENT, DISTURBANCE, OR ACTIVITY	LOCATION (COUNTY, T/R SECTION, ETC.)	PROJECT TYPE	BRIEF DESCRIPTION	ACREAGES OR OTHER QUANTITY	WITHIN CIA	STATUS	SOURCE
US Route 60/Grand Avenue	NW of Morristown to SE of Sun City West	Transportation	Grand Avenue/US 60 is a US highway that connects the Atlantic Coast in Virginia to western Arizona. It serves the metropolitan Phoenix area as part of the local freeway system connecting Phoenix to Wickenburg crossing through west valley cities including Wittmann, Surprise, Peoria, Glendale, and West Phoenix. Additionally, US 60 serves as a freight corridor between Phoenix and Las Vegas, Nevada, by way of a regional connection with US 93 in Wickenburg. Planned projects along Grand Avenue/US 60 throughout the study area include widening efforts to expand the roadway in the vicinity of SR 303 from four general purpose lanes to six. These improvements are identified in Phase III of the MAG RTP (FY 2016 – 2020). No projects in STIP (2011-2014) for Maricopa County.		Socio, Air, Transportation, Visual	Past, Present, Future	MAG RTP (FY 2016 – 2020)
BNSF Railroad		Transportation	Burlington Northern Santa Fe (BNSF) rail line that intersects the study area is part of the 209-mile BNSF Phoenix Subdivision. There is one future BNSF facility planned in Surprise. The future Surprise Logistics Center will be located near Dove Valley Road and Grand Avenue and is expected to house a serving yard, a 200-acre auto center, and 350 acres of direct served uses, including manufacturing, warehousing, storage, and general industrial land uses.	22 miles within study area and 550 acres of industrial facility area	All	Past, Present, Future	
Castle Well Airport	north of SR 74 and east of Castle Hot Springs Road	Transportation	It is a private facility with one asphalt runway (2,600 feet by 60 feet) for use by residents of the community. 5 aircraft based on the field: 3 single engine aircraft, 1 ultralight, and 1 multi-engine plane.		Socio, Air, Transportation	Present	AirNav

Past, Present, and Reasonably Foreseeable Projects, Developments, Disturbances, and Activities (Continued)

PROJECT, DEVELOPMENT, DISTURBANCE, OR ACTIVITY	LOCATION (COUNTY, T/R SECTION, ETC.)	PROJECT TYPE	BRIEF DESCRIPTION	ACREAGES OR OTHER QUANTITY	WITHIN CIA	STATUS	SOURCE
Luke AFB Auxiliary Field No. 1	15 miles NW of main base in the City of Surprise at intersection of Happy Valley Rd and 211th Ave	Transportation	This airfield is used by the Luke Air Force Base for flight training throughout the year. It supports approximately 13,000 practice operations per year. Concrete runways. Average of 274 airport operations per day; 100 percent military.	400 acres of federal land and 705 acres leased from the State	Socio, Air, Transportation	Present	AirNav
Pleasant Valley Airport	near the intersection 1 of SR 74 and Lake Pleasant Parkway	Transportation	A general aviation airport with three parallel runways and one cross wind runway. Pleasant Valley Airport is open to the public and serves single engine, light twin, helicopter, and glider aircraft. Aircraft based on the field: 33 Single engine airplanes: 14 Gliders airplanes: 14 Ultralights: 5 Aircraft operations: avg 205/day for a 12-month period ending 27 April 2011 80 percent local general aviation; 20 percent transient general aviation		Socio, Air, Transportation	Present	AirNav
Ranta Strip Airport	along Gates Road, west of the SR 74/US 60 intersection	Transportation	This airport is a private facility with one gravel runway measuring 2,400 feet by 100 feet.		Socio, Air, Transportation	Present	AirNav
Roesner Ranch Airpark	south of 237th Ave and SR 74intersection, along 8th St. alignment in Morristown	Transportation	It is a private facility with one 4,700 foot long (60 foot wide) gravel runway.	100 acres	Socio, Air, Transportation	Present	AirNav

Past, Present, and Reasonably Foreseeable Projects, Developments, Disturbances, and Activities (Continued)

PROJECT, DEVELOPMENT, DISTURBANCE, OR ACTIVITY	LOCATION (COUNTY, T/R SECTION, ETC.)	PROJECT TYPE	BRIEF DESCRIPTION	ACREAGES OR OTHER QUANTITY	WITHIN CIA	STATUS	SOURCE
Thunder Ridge Airpark	237th Avenue and Joy Ranch Road in Morristown	Transportation	It is a private facility with an asphalt runway (2,600 feet by 40 feet) located within a residential airpark. The airpark has nine residential homes and hosts annual fly-in activities that regularly average 20 to 25 planes.		Socio, Air, Transportation	Present	AirNav
APS Dugas-Morgan Fiber Optic Project	I-17 Corridor between Cordes Lakes and SR-74	Utilities	Public scoping concluded September 6, 2011 DOI-BLM-AZ-P000-2011-003-EA		Socio, Air	Future	BLM NEPA log
Hassayampa/AFNM Integrated Vegetation Treatment Project	I-17 Corridor between Cordes Lakes and SR-74	Vegetation	Hassayampa Field Office and Agua Fria National Monument. EA In Progress. Project started March 14, 2011. DOI-BLM-AZ-P000-2011-002-EA		Socio, Air	Future	BLM NEPA log
Phoenix District Integrated Weed Management Environmental Assessment	Phoenix District BLM lands	Vegetation	Project started 10/18/2010. Scoping Meetings Occurred December 14th and 15th, 2010. DOI-BLM-AZ-P000-2011-001-EA		All	Future	BLM NEPA log
Northwest Regional Landfill	19401 West Deer Valley Road Surprise, AZ 85387	Waste	Northwest Regional Landfill offers the following non-hazardous waste disposal services: Asbestos-Non-Friable, Construction & Demolition Debris, Drum Management-Liquids, Drum Management-Solids, Industrial & Special Waste, Municipal Solid Waste, Tires, and yard waste. Landfill permits: AZ Solid Waste Facility: 07039500.02 State Facility Special Waste ID: 301963 EPA ID: AZR000031559 APP Permit No: P-100267 Title V Air Permit: V97-016	1,200 acres	Socio, Air	Existing	http://www.wmsolutions.com/facilities/results.asp?state=AZ

Past, Present, and Reasonably Foreseeable Projects, Developments, Disturbances, and Activities (Continued)

PROJECT, DEVELOPMENT, DISTURBANCE, OR ACTIVITY	LOCATION (COUNTY, T/R SECTION, ETC.)	PROJECT TYPE	BRIEF DESCRIPTION	ACREAGES OR OTHER QUANTITY	WITHIN CIA	STATUS	SOURCE
Beardsley Canal		Water	Operated by the Maricopa Water District, transports water from Agua Fria River to the west-central part of the study area. Water is diverted from Camp Dyer Dam into the Beardsley Canal which is MWD's main transportation system. The concrete-lined canal extends nearly 33 miles.	33 miles	All	Existing	hwww.gcairoinc.com/maricopa_water_district.php
Central Arizona Project (CAP)		Water	<p>The CAP canal is a multi-purpose water resource development and management project that brings water from the Colorado River to central and southern Arizona. The cities of Phoenix and Glendale treat CAP water and distribute it through their municipal systems. CAP water also can be delivered to the area through Salt River Project canals and the Beardsley Canal. CAP water is stored in Lake Pleasant with water from the Agua Fria River. Generally, water is banked in Lake Pleasant during low demand periods such as the winter and released during high demand periods such as the summer.</p> <p>The CAP canal is a 336-mile system of aqueducts, tunnels, pumping plants, and pipelines and is operated and maintained by the Central Arizona Water Conservation District. In addition to the water supply, the project also provides power, flood control, outdoor recreation, and fish and wildlife habitat benefits. Approximately 15 miles of the CAP canal are located within 2 miles of the Proposed Action route, ACC-certificated corridor, and the action alternative routes.</p>	15 miles of it near the study area (336 miles)	All	Existing	

Past, Present, and Reasonably Foreseeable Projects, Developments, Disturbances, and Activities (Continued)

PROJECT, DEVELOPMENT, DISTURBANCE, OR ACTIVITY	LOCATION (COUNTY, T/R SECTION, ETC.)	PROJECT TYPE	BRIEF DESCRIPTION	ACREAGES OR OTHER QUANTITY	WITHIN CIA	STATUS	SOURCE
McMicken Dam	SW portion of Surprise, south of Grand Ave/US60	Water	A 10-mile long, 34-foot high earthen dam, is constructed at the eastern end of the Trilby Wash Basin. Discharge from the Trilby Wash Basin to the Agua Fria River occurs through the McMicken Dam Outlet Channel and McMicken Dam Outlet Wash. It was originally constructed to protect Luke Air Force Base and surrounding agricultural lands from flooding.		Socio, Air, Golden Eagle	Existing	
New Waddell Dam and Reservoir	South end of Lake Pleasant	Water	Construction of New Waddell Dam began in 1985. New Waddell Dam's primary purpose is to store Colorado River water for CAP use. The dam also stores Agua Fria River runoff and provides flood protection by controlling river flows. The dam is located one-half mile downstream of historic Waddell Dam, which was built by the Maricopa Water District (MWD). The dam's reservoir, Lake Pleasant, also stores water for MWD irrigation.	12,040 acres	All	Existing	http://www.usbr.gov/lc/phenix/projects/waddell/amproj.html
Waddell Canal	Begins south side of Lake Pleasant	Water	The Waddell dam diverts lake water into this canal which transports the resource to Valley users and the Central Arizona Project (CAP). The Waddell Canal is managed by the BOR.	4.9 miles	All	Existing	www.usbr.gov/lc/phenix/projects/waddell/amproj.html