space for photo

The Middle Gila Watershed

This watershed encompasses the Gila River drainage area below Coolidge Dam (San Carlos Reservoir) in the east to Painted Rock Dam in the west. It excludes the Santa Cruz River and San Pedro River drainages and the Salt River drainage above Granite Reef Dam. The Salt River drainage area below Granite Reef Dam is included in this watershed (instead of the Salt Watershed), because the canals and diversions at the dam have hydrologically disconnected the system from the rest of the Salt drainage. This area receives little rainfall; therefore, surface water flow is primarily attributed to releases from upstream impoundments, effluent from wastewater treatment plants, and agricultural return flows.

The Phoenix metropolitan area, located in this 12,250 square mile watershed, consists of more than 3,190,700 people (2000 census). Land ownership is approximately: 25% private land, 4% state land, 65% federal land, and 4% Tribal lands. Within the metropolitan area, irrigated agriculture uses are rapidly being displaced by urbanization. Outside of the urbanized area, livestock grazing is the primary land use. Mining (primarily now abandoned) has occurred across this watershed, with more concentration south of Prescott.

Elevations range from 7,400 feet (above sea level) to 1,100 feet at Painted Rocks Reservoir. Most of the watershed is below 5,000 feet in elevation, with low desert flora and fauna and warmwater aquatic communities where perennial waters exist.

The assessment – Assessments were completed for 54 stream reaches and nine lakes in this watershed. Of the 622 stream miles assessed, 109 miles were attaining all uses (six reaches) and 168 miles (18 reaches) were assessed as impaired or not attaining a use. Of the 2,469 lake acres assessed, 220 acres (one lake) were assessed as attaining all uses and 142 acres (four lakes) were assessed as impaired or not attaining a use. All other reaches and lakes assessed were inconclusive or attaining some uses.

A watershed assessment map follows on the next page, illustrating stream and lake assessments by category. The Middle Gila **monitoring table (Table 13)** following the map summarizes the water quality data used in the assessment. It is followed by the **assessment table (Table 14)**, which bridges current assessments with past assessments and impaired water identification. Important to note in this table are comments regarding previous 303(d) lists (what has been added and removed), category designations (1 through 5), references to potential actions by EPA, and status of TMDLs.

Detailed information on how to use these tables is found at the beginning of this chapter (p. IV-1). Assessment methods and criteria can be found in Chapter III.

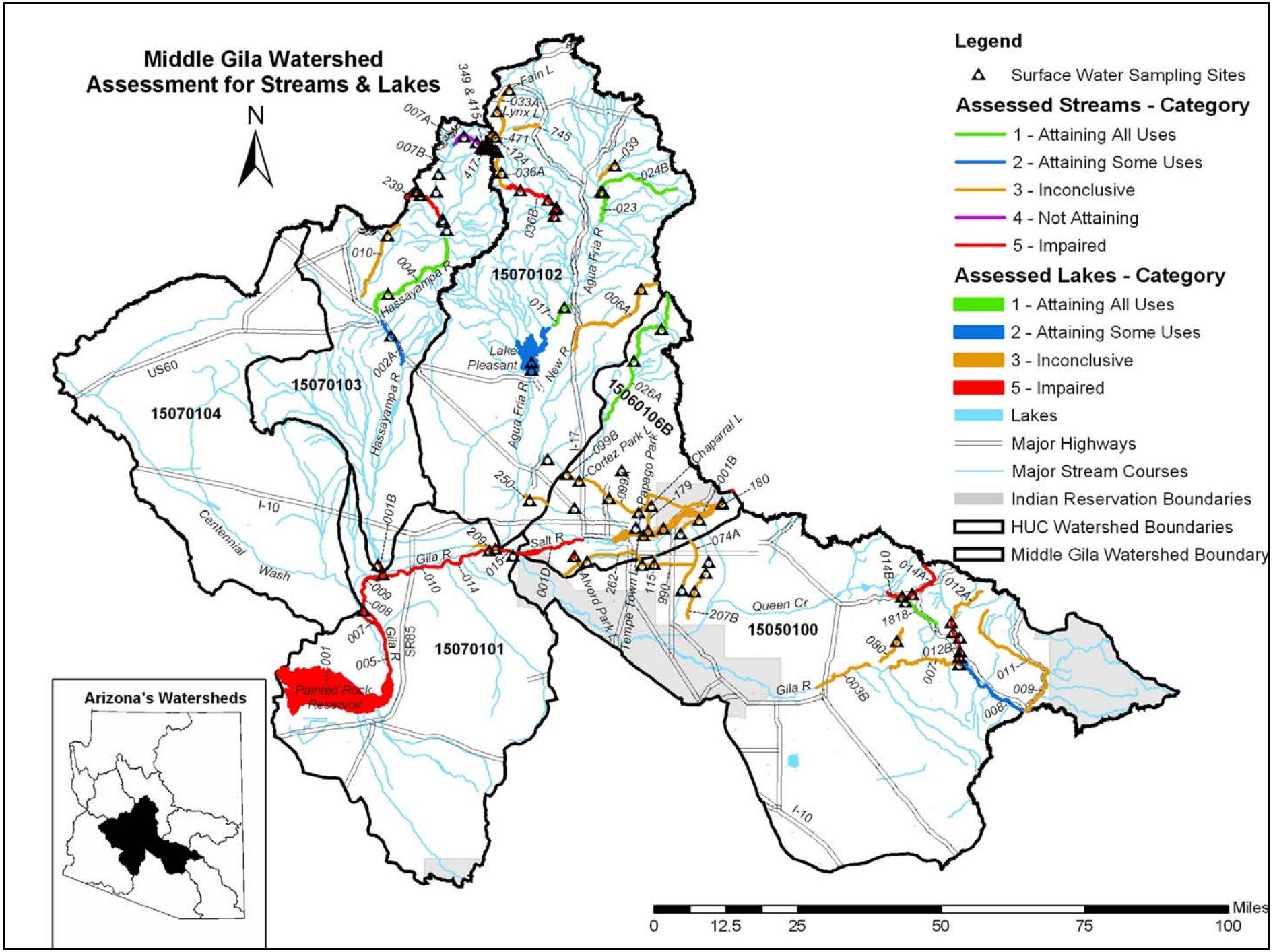

Figure 19. Watershed monitoring and assessments

TABLE 14. MIDDLE GILA WATERSHED -- 2004 ASSESSMENT MONITORING DATA

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCES OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
STREAM MONITORING DATA								
Agua Fria River Sycamore Creek - Big Bug Creek AZ15070102-023 A&Ww, FC, FBC, DWS, AgI, AgL	ADEQ Biocriteria Program Upstream of Big Bug Creek MGAFR064.94 100711	1998 - 1 partial suite	No exceedances					
	ADEQ Ambient Monitoring Below USGS gaging station MGAFR064.91 100710	2001 - 1 full suite 2002 - 3 full suites	No exceedances					
	Summary Row **A&Ww Attaining** **FC Attaining** **FBC Attaining** **DWS Attaining** **AgI Attaining** **AgL Attaining**	**1998 - 2002** **5 sampling events**	**No exceedances**					**ADEQ collected 5 samples at 2 sites in 1998 - 2002. Assessed as "attaining all uses."**
Agua Fria River Little Squaw Creek - Cottonwood Creek AZ15070102-017 A&Ww, FC, FBC, DWS, AgI, AgL	ADEQ Ambient Monitoring Below Rock Springs Gage MGAFR043.96 101304	2001 - 1 full suite 2002 - 3 full suites	Dissolved oxygen mg/L	>6.0 (90% saturation) (A&Ww)	1.74 - 8.26 (21 - 116%)	2 of 4		Low dissolved oxygen due to naturally occurring ground water upwelling, and not anthropogenic causes. Not included in final assessment.
	Summary Row **A&Ww Attaining** **FC Attaining** **FBC Attaining** **DWS Attaining** **AgI Attaining** **AgL Attaining**	**2001 - 2002** **4 sampling events**	**No exceedances**					**ADEQ collected 4 samples in 2001 - 2002. Assessed as "attaining all uses."**
Antelope Creek headwaters - Martinez Creek AZ15070103-010 A&Ww, FC, FBC, AgL	ADEQ Biocriteria Program Above Road Crossing near Stanton MGANT011.29 100713	1998 - 1 partial suite	No exceedances					
	Summary Row **A&Ww Inconclusive** **FC Inconclusive** **FBC Inconclusive** **AgL Inconclusive**	**1998** **1 sampling event**	**No exceedances**					**Insufficient monitoring data to assess.**
Arizona Canal Granite Reef Dam - Cholla WTP AZ15060106B-099A DWS, AgI, AgL	SRP Routine Monitoring At Granite Reef Dam MGAZC021.79 SVCA 1-0.0	1998 - 10 partial suites 1999 - 12 partial suites 2000 - 12 partial suites 2001 - 12 partial suites 2002 - 11 partial suites	No exceedances					
	SRP Routine Monitoring At Invergorden (64th Street) MGAZC014.51 SVCA 1-3.9	1998 - 10 partial suites 1999 - 12 partial suites 2000 - 11 partial suites 2001 - 11 partial suites 2002 - 11 partial suites	No exceedances					
	SRP Routine Monitoring At Squaw Peak Water Treatment Plant MGAZC010.48 SVCA 1-9.3	1998 - 10 partial suites 1999 - 12 partial suites 2000 - 11 partial suites 2001 - 11 partial suites 2002 - 11 partial suites	No exceedances					

TABLE 14. MIDDLE GILA WATERSHED -- 2004 ASSESSMENT MONITORING DATA

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCES OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
	SRP Routine Monitoring At Deer Valley Water Treatment Plant MGAZC005.74 SVCA 1-14.5	1998 - 7 partial suites 1999 - 12 partial suites 2000 - 11 partial suites 2001 - 12 partial suites 2002 - 12 partial suites	No exceedances					
	SRP Routine Monitoring At Cholla Water Treatment Plant MGAZC003.90 SVCA 1-16.6	1998 - 10 partial suites 1999 - 12 partial suites 2000 - 11 partial suites 2001 - 11 partial suites 2002 - 11 partial suites	No exceedances					
	Summary Row **DWS Inconclusive** **AgI Inconclusive** **AgL Inconclusive**	**1998 - 2002** **286 samples** **57 sampling events**	**No exceedances**					**SRP collected 286 samples at 5 sites in 1998-2002. Assessed as "inconclusive" and placed on the Planning List due to missing core parameters: total arsenic, total fluoride, and total metals (chromium, copper, lead, manganese, and mercury).**
Arizona Canal Cholla WTP - HUC boundary 15070102 AZ15060106B-099B AgI, AgL	SRP Routine Monitoring At 75th Ave. and Greenway MGAZC001.48 LT1-20.0	1998 - 10 partial suites 1999 - 12 partial suites 2000 - 11 partial suites 2001 - 11 partial suites 2002 - 11 partial suites	No exceedances					
	Summary Row **AgI Inconclusive** **AgL Inconclusive**	**1998 - 2002** **55 sampling events**	**No exceedances**					**SRP collected 55 samples in 1998-2002. Assessed as "inconclusive" and placed on the Planning List due to missing core parameters: field pH and total metals (copper, lead, and manganese).**
Arnett Creek headwaters - Queen Creek AZ15050100-1818 A&Ww, FC, FBC (tributary rule)	ADEQ Ambient Monitoring Near town of Superior MGARN001.57 101306	2001 - 1 full suite 2002 - 3 full suites	Dissolved oxygen mg/L	>6.0 (90% saturation) (A&Ww)	3.4 - 9.1 (44 - 104%)	2 of 4		Low dissolved oxygen due to naturally occurring ground water upwelling, and not anthropogenic causes. Not included in final assessment.
	Summary Row **A&Ww Attaining** **FC Attaining** **FBC Attaining**	**2001 - 2002** **4 sampling events**	**No exceedances**					**ADEQ collected 4 samples in 2001 - 2002. Assessed as "attaining all uses."**
Blue John Creek headwaters - Unnamed trib to Lynx Creek AZ15070102-471 A&Wc, FC, FBC (tributary rule)	Weston Solutions for EPA Above unnamed tributary (LC-BSC-JUP) MGBLJ000.05	2001 - 1 metals suite (dissolved only)	Cadmium (dissolved) µg/L	varies by hardness (A&Wc acute)	54.8	1 of 1		Additional samples taken by Weston Solutions showed exceedances but were not used in this assessment. QA/QC protocols were not fulfilled and resulted in estimated values.
				varies by hardness (A&Wc chronic)	54.8	1 of 1		
			Copper (dissolved) µg/L	varies by hardness (A&Wc acute)	81.7	1 of 1		
				varies by hardness (A&Wc chronic)	81.7	1 of 1		
			Zinc (dissolved) µg/L	varies by hardness (A&Wc acute)	5060	1 of 1		
				varies by hardness (A&Wc chronic)	5060	1 of 1		

TABLE 14. MIDDLE GILA WATERSHED -- 2004 ASSESSMENT MONITORING DATA

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCES OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
	Summary Row **A&Wc Inconclusive** **FC Inconclusive** **FBC Inconclusive**	**2001** **1 sampling event**	**Cadmium (dissolved) µg/L**	**varies by hardness (A&Wc acute)**	**54.8**	**1 of 1 event (in 2001)**	**Inconclusive**	**Insufficient monitoring data to assess.** **Placed on the Planning List due to cadmium, copper, and zinc exceedance.**
				varies by hardness (A&Wc chronic)	**54.8**	**1 of 1 event**	**Inconclusive**	
			Copper (dissolved) µg/L	**varies by hardness (A&Wc acute)**	**81.7**	**1 of 1 event (in 2001)**	**Inconclusive**	
				varies by hardness (A&Wc chronic)	**81.7**	**1 of 1 event**	**Inconclusive**	
			Zinc (dissolved) µg/L	**varies by hardness (A&Wc acute)**	**5060**	**1 of 1 event (in 2001)**	**Inconclusive**	
				varies by hardness (A&Wc chronic)	**5060**	**1 of 1 event**	**Inconclusive**	
Buckeye Canal Gila River - South Extension Canal AZ15070101-209 AgI, AgL	USGS NAWQA Site #09514000 Near Avondale MGBKC000.015 101494	1998 - 4 partial suites						
	Summary Row **AgI Inconclusive** **AgL Inconclusive**	**1998** **4 sampling events**	**No exceedances**					**USGS collected 4 samples in 1998. Assessed as "inconclusive" and placed on the Planning List due to missing core parameters: total boron and total metals (copper, lead, manganese).**
Cash Mine Creek headwaters - Hassayampa River AZ15070103-349 A&Wc, FBC, FC (tributary rule)	Weston Solutions for EPA Above unnamed tributary (HR-MCT-BCSD) MGCSM000.24	2001 - 1 metals suite (dissolved only)	Copper (dissolved) µg/L	varies by hardness (A&Wc acute)	2820	1 of 1		Additional samples taken by Weston Solutions showed exceedances but were not used in this assessment. QA/QC protocols were not fulfilled and resulted in estimated values.
				varies by hardness (A&Wc chronic)	2820	1 of 1		
			Copper (total) µg/L	1300 (FBC)	2820	1 of 1		
			Zinc (dissolved) µg/L	varies by hardness (A&Wc acute)	256	1 of 1		
				varies by hardness (A&Wc chronic)	256	1 of 1		

TABLE 14. MIDDLE GILA WATERSHED -- 2004 ASSESSMENT MONITORING DATA

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCES OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
	Summary Row **A&Wc Not attaining** **FC Inconclusive** **FBC Not attaining**	**2001** **1 sampling event**	**Copper (dissolved) µg/L**	**varies by hardness (A&Wc acute)**	**2820**	**1 of 1 event (in 2001)**	**Inconclusive (Not attaining)**	**Cadmium, copper, pH, and zinc loadings on this reach were addressed in the TMDL for the Hassayampa River approved by EPA in 2002.** **Although current data for copper and zinc are "inconclusive," the reach is assessed as "not attaining" until data indicate that all uses are being attained for parameters addressed in the TMDL.** **Placed on the Planning List for TMDL follow-up monitoring and insufficient sampling events.**
				varies by hardness (A&Wc chronic)	**2820**	**1 of 1 event**	**Inconclusive (Not attaining)**	
			Copper (total) µg/L	**1300 (FBC)**	**2820**	**1 of 1 event**	**Inconclusive (Not attaining)**	
			Zinc (dissolved) µg/L	**varies by hardness (A&Wc acute)**	**256**	**1 of 1 event (in 2001)**	**Inconclusive (Not attaining)**	
				varies by hardness (A&Wc chronic)	**256**	**1 of 1 event**	**Inconclusive (Not attaining)**	
Cash Mine Creek, unnamed tributary of headwaters - Cash Mine Creek AZ15070103-415 A&Wc, FC, FBC (tributary rule)	Weston Solutions for EPA Below adit, Above McCleur tailings MGUCM000.19	2001 - 1 metals suite (total only)	Lead (total) µg/L	15 (FBC)	38.5	1 of 1		Additional samples taken by Weston Solutions showed exceedances but were not used in this assessment. QA/QC protocols were not fulfilled and resulted in estimated values.
	Weston Solutions for EPA At base of McCleur tailings MGUCM000.10	2001 - 1 metals suite (dissolved only)	Cadmium (dissolved) µg/L	varies by hardness (A&Wc acute)	62.3	1 of 1		
				varies by hardness (A&Wc chronic)	62.3	1 of 1		
			Copper (dissolved) µg/L	varies by hardness (A&Wc acute)	1080	1 of 1		
				varies by hardness (A&Wc chronic)	1080	1 of 1		
			Zinc (dissolved) µg/L	varies by hardness (A&Wc acute)	5320	1 of 1		
				varies by hardness (A&Wc chronic)	5320	1 of 1		
	Summary Row **A&Wc Not attaining** **FC Inconclusive** **FBC inconclusive**	**2001** **2 samples** **1 sampling event**	**Cadmium (dissolved) µg/L**	**varies by hardness (A&Wc acute)**	**62.3**	**1 of 1 event (in 2001)**	**Inconclusive (Not attaining)**	**Cadmium, copper, pH, and zinc loadings on this reach were addressed in the TMDL for the Hassayampa River approved by EPA in 2002.** ***Although current data for copper and zinc are "inconclusive," the reach is assessed as "not attaining" until data indicate that all uses are being attained for parameters addressed in the TMDL.** **Placed on the Planning List for TMDL follow-up monitoring and insufficient sampling events.**
				varies by hardness (A&Wc chronic)	**62.3**	**1 of 1 event**	**Inconclusive (Not attaining)**	
			Copper (dissolved) µg/L	**varies by hardness (A&Wc acute)**	**1080**	**1 of 1 event (in 2001)**	**Inconclusive (Not attaining)**	
				varies by hardness (A&Wc chronic)	**1080**	**1 of 1 event**	**Inconclusive (Not attaining)**	
			Lead (total) µg/L	**15 (FBC)**	**38.5 - 60.6**	**1 of 1**	**Inconclusive**	
			Zinc (dissolved) µg/L	**varies by hardness (A&Wc acute)**	**5320**	**1 of 1 event (in 2001)**	**Inconclusive (Not attaining)**	
				varies by hardness (A&Wc chronic)	**5320**	**1 of 1 event**	**Inconclusive (Not attaining)**	

TABLE 14. MIDDLE GILA WATERSHED -- 2004 ASSESSMENT MONITORING DATA

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCES OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
Cave Creek headwaters - Cave Creek Dam AZ15060106B-026A A&Ww, FC, FBC, AgL	ADEQ Ambient Monitoring Near Ashdale Station, Below Seven Springs MGCVE028.41 100527	2001 - 1 full suite 2002 - 3 full suites	No exceedances					
	ADEQ Ambient Monitoring Above Maricopa Mine, Below inactive mine workings MGCVE022.02 101305	2001 - 1 full suite 2002 - 2 full suites	No exceedances					
	Summary Row **A&Ww Attaining** **FC Attaining** **FBC Attaining** **AgL Attaining**	**2001 - 2002** **7 samples** **5 sampling events**	**No exceedances**					**ADEQ collected 5 samples at 2 sites in 1998 - 2002. Assessed as "attaining all uses."**
Consolidated Canal 15060106B - above WTP intake AZ15050100-074A DWS, AgI, AgL	SRP Routine Monitoring At Pecos Road (Chandler Water Treatment Plant) MGCNC010.03 SVCA 5-14.0	1998 - 12 partial suites 1999 - 12 partial suites 2000 - 11 partial suites 2001 - 12 partial suites 2002 - 12 partial suites	No exceedances					
	Summary Row **DWS Inconclusive** **AgI Inconclusive** **AgL Inconclusive**	**1998 - 2002** **59 sampling events**	**No exceedances**					**SRP collected 59 samples in 1998 - 2002. Assessed as "inconclusive" and placed on the Planning List due to missing core parameters: total metals (arsenic, chromium, lead, manganese, and copper).**
Eastern Canal WTP below Warner Rd. - terminus AZ15050100-207B AgI, AgL	SRP Routine Monitoring At lateral 14.5 MGESC012.35 SVCA 4-14.2	1998 - 10 partial suites 1999 - 8 partial suites 2000 - 10 partial suites 2001 - 10 partial suites 2002 - 11 partial suites	No exceedances					
	SRP Routine Monitoring At Warner Ave, Tempe MGESC012.13 SVCA 4-11.0	1998 - 12 partial suites 1999 - 11 partial suites 2000 - 10 partial suites 2001 - 11 partial suites 2002 - 12 partial suites	No exceedances					
	SRP Routine Monitoring At Guadalupe (Gilbert Water Treatment Plant) MGESC007.31 SVCA 4-9.0	1998 - 12 partial suites 1999 - 12 partial suites 2000 - 11 partial suites 2001 - 12 partial suites 2002 - 12 partial suites	No exceedances					
	Summary Row **AgI Inconclusive** **AgL Inconclusive**	**1998 - 2002** **164 samples** **59 sampling events**	**No exceedances**					**SRP collected 164 samples at 3 sites in 1998-2002. Assessed as "inconclusive" and placed on the Planning List due to missing core parameters: total metals (arsenic, chromium, lead, manganese, and copper).**

TABLE 14. MIDDLE GILA WATERSHED -- 2004 ASSESSMENT MONITORING DATA

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCES OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
French Gulch headwaters - Hassayampa River AZ15070103-239 A&Ww, FC, FBC (tributary rule)	Arimetco, Inc. Compliance monitoring Above Zonia Gulch (FGAZG) MGFRG9.84 101619	1998 - 11 metals suites 1999 - 8 metals suites 2000 - 11 field + metals 2001 - 26 field + metals 2002 - 7 field	Arsenic (total) µg/L	50 (FBC)	<40 - 74	1 of 35		
			Copper (total) µg/L	1300 (FBC)	19 - 1600	1 of 36		
			Copper (dissolved) µg/L	varies by hardness (A&Ww acute)	<10 - 300	23 of 36		
				varies by hardness (A&Ww chronic)	<10 - 300	23 of 36		
			Copper (dissolved) µg/L	varies by hardness (A&Ww chronic)	<10 - 300	26 of 36		
			Lead (total) µg/L	15 (FBC)	<2 - 20	1 of 35		
			Mercury (total) µg/L	0.6 (FC)	0.2 - 1.7	1 of 36		
			Zinc (dissolved) µg/L	varies by hardness (A&Ww acute)	<50 - 1100	20 of 36		
				varies by hardness (A&Ww chronic)	<50 - 1100	20 of 36		
	Arimetco, Inc. Compliance monitoring and ADEQ TMDL Program Below Zonia Gulch (FGBZG and FGBZG+85) MGFRG008.17 101620	1998 - 6 field, 10 metals 1999 - 1 field, 8 metals 2000 - 11 field + metals 2001 - 28 field, 7 metals 2002 - 12 field	Arsenic (total) µg/L	50 (FBC)	<5 - 94	1 of 43		
			Cadmium (dissolved) µg/L	varies by hardness (A&Ww chronic)	<1 - 9	3 of 25		
			Copper (dissolved) µg/L	varies by hardness (A&Ww acute)	<10 - 1200	25 of 48		
				varies by hardness (A&Ww chronic)	<10 - 1200	33 of 48		
			Copper (total) µg/L	1300 (FBC)	<10 - 1400	1 of 49		
			Mercury (total) µg/L	0.6 (FC)	<0.2 - 1.1	1 of 42		
			Zinc (dissolved) µg/L	varies by hardness (A&Ww acute)	<50 - 2200	27 of 48		
				varies by hardness (A&Ww chronic)	<50 - 2200	27 of 48		
	Arimetco, Inc. Compliance monitoring and ADEQTMDL Program Above Placerita Gulch (FGAPG) MGFRG004.96 100649	1998 - 1 field, 2 metals 1999 - 1 field, 2 metals 2000 - 1 field, 3 metals 2001 - 2 metals 2002 - 1 field, metals	Copper (dissolved) µg/L	varies by hardness (A&Ww chronic)	<10 - 33	2 of 10		
			Mercury (total) µg/L	0.6 (FC)	<0.2 - 1.7	1 of 10		

TABLE 14. MIDDLE GILA WATERSHED -- 2004 ASSESSMENT MONITORING DATA

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCES OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
	Arimetco, Inc. Compliance monitoring and ADEQ TMDL Program Below Placerita Gulch (FGBPG) MGFRG004.87 100650	1998 - 2 field, metals 1999 - 1 field, 3 metals 2000 - 1 field, 3 metals 2001 - 1 field, 2 metals 2002 - 1 field, metals	Mercury (total) µg/L	0.6 (FC)	<0.2 - 1.9	1 of 11		
	Summary Row **A&Ww Impaired** **FC Attaining** **FBC Inconclusive**	**1998 - 2002** **153 samples** **69 sampling events**	**Arsenic (total)** **µg/L**	**50** **(FBC)**	**<5 - 94**	**2 of 101**	**Attaining**	**Arimetco collected 146 samples at 4 sites in 1998-2002. ADEQ's TMDL Program collected 7 samples at 3 of these sites in 2001-2002. Assessed as "impaired" due to cadmium, copper and zinc exceedances.** **Placed on the Planning List due to missing core parameters: dissolved oxygen, *Escherichia coli*, and turbidity/SSC.** **(Due to changes in the tributary rule, AgI and AgL uses no longer apply to this reach.)**
			Cadmium **(dissolved)** **µg/L**	**varies by hardness** **(A&Ww chronic)**	**<1 - 9**	**3 of 66 samples** **3 of 50 events**	**Impaired**	
			Copper (dissolved) **µg/L**	**varies by hardness** **(A&Ww acute)**	**<10 - 1200**	**48 of 106** **samples** **27 of 50 events**	**Impaired**	
				varies by hardness **(A&Ww chronic)**	**<10 - 1200**	**61 of 106** **samples** **38 of 50 events**	**Impaired**	
			Copper (total) **µg/L**	**1300** **(FBC)**	**<10 - 1600**	**2 of 107**	**Attaining**	
			Lead (total) **µg/L**	**15** **(FBC)**	**<2 - 20**	**1 of 93**	**Attaining**	
			Mercury (total) **µg/L**	**0.6** **(FC)**	**<0.2 - 1.7**	**4 of 100**	**Attaining**	
			Zinc (dissolved) **µg/L**	**varies by hardness** **(A&Ww acute)**	**40 - 2260**	**47 of 105** **samples** **29 of 50 events**	**Impaired**	
				varies by hardness **(A&Ww chronic)**	**40 - 2260**	**47 of 105** **samples** **29 of 50 events**	**Impaired**	
Gila River San Pedro River - Mineral Creek AZ15050100-008 A&Ww, FC, FBC, AgI, AgL	USGS NAWQA Site #09474000 At Kelvin MGGLR136.90 100748	1998 - 6 partial suites 2001 - 2 full suites 2002 - 4 full suites	Turbidity (former standard) NTU	50 (A&Ww)	1 - 72	2 of 6	Inconclusive	
	Summary Row **A&Ww Inconclusive** **FC Attaining** **FBC Attaining** **AgI Attaining** **AgL Attaining**	**1998 - 2002** **12 sampling events**	**Turbidity (former** **standard)** **NTU**	**50** **(A&Ww)**	**1 - 72**	**2 of 6**	**Inconclusive** **(see comment)**	**USGS collected 12 samples in 1998-2002. Assessed as "attaining some uses" and placed on the Planning List due to exceedances of the former turbidity standard. Monitoring will be scheduled to determine whether suspended sediment or bottom deposit violations are occurring.**
Gila River Salt River - Agua Fria River AZ15070101-015 A&Wedw, FC, PBC, AgI, AgL	ADEQ Ambient Monitoring Above El Mirage Road MGGLR095.61 101264	2001 - 1 full suite 2002 - 3 full suites	No exceedances					

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STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCES OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
	Summary Row **A&Wedw Attaining** **FC Impaired*** **PBC Attaining** **AgI Attaining** **AgL Attaining**	**2001 - 2002** **4 sampling events**	**No exceedances**					***Assessed as "impaired" due to DDT, toxaphene, and chlordane in fish tissue. EPA placed this reach on the 2002 303(d) List because of this pesticide contamination in fish tissue and a fish consumption advisory. Once listed, this reach cannot be delisted until a TMDL is complete or sufficient data are collected to indicate these parameters are no longer a concern in fish tissue (i.e., the fish consumption advisory is removed).**
Gila River Agua Fria River - Waterman Wash AZ15070101-014 A&Wedw, FC, PBC, AgI, AgL	USGS NAWQA Site #09514100 At Estrella Parkway MGGLR093.66 101495	1998 - 1 partial suite	No exceedances					
	Summary Row **A&Wedw Inconclusive** **FC Impaired*** **PBC Inconclusive** **AgI Inconclusive** **AgL Inconclusive**	**1998** **1 sampling event**	**No exceedances**					***Assessed as "impaired" due to DDT, toxaphene, and chlordane in fish tissue. EPA placed this reach on the 2002 303(d) List because of this pesticide contamination in fish tissue and a fish consumption advisory. Once listed, this reach cannot be delisted until a TMDL is complete or sufficient data are collected to indicate these parameters are no longer a concern in fish tissue (i.e., the fish consumption advisory is removed).**
Gila River Centennial Wash - Gillespie Dam AZ15070101-008 A&Wedw, FC, PBC, AgI, AgL	USGS Station #09518000 Above Gillespie Dam diversion MGGLR075.86 100734	1998 - 6 full suites 1999 - 5 full suites 2000 - 4 full suites 2001 - 4 full suites 2002 - 4 full suites	Boron (total) µg/L	1000 (AgI)	370 - 2700	22 of 23		
			Escherichia coli CFU/100 ml	576 (PBC)	15 - 870	1 of 22		
			Selenium (total) µg/L	2 (A&Wedw chronic)	<1 - 15.5	18 of 23		
			Turbidity (former standard) NTU	50 (A&Wedw)	0.34 - 95	5 of 23		

TABLE 14. MIDDLE GILA WATERSHED -- 2004 ASSESSMENT MONITORING DATA

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCES OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
	Summary Row **A&Wedw Impaired** **FC Impaired*** **PBC Attaining** **AgI Impaired** **AgL Attaining**	**1998 - 2002** **23 sampling events**	**Boron (total)** **µg/L**	**1000** **(AgI)**	**370 - 2700**	**22 of 23**	**Impaired**	**USGS collected 23 samples in 1998-2002. Assessed as "impaired" due to:** **1. Boron exceedances,** **2. Selenium exceedances,** **3. DDTs, toxaphene, and chlordane in fish tissue.** ***EPA placed this reach on the 2002 303(d) List because of this pesticide contamination in fish tissue and a fish consumption advisory. Once listed, this reach cannot be delisted until a TMDL is complete or sufficient data are collected to indicate these parameters are no longer a concern in fish tissue (i.e., the fish consumption advisory is removed).** **This reach is also on the Planning List due to exceedances of the former turbidity standard. Monitoring will be scheduled to determine whether suspended sediment or bottom deposit violations are occurring.**
			Escherichia coli **CFU/100 ml**	**576** **(PBC)**	**15 - 870**	**1 of 22 events (not in the last 3 years of sampling)**	**Attaining**	
			Selenium (total) **µg/L**	**2** **(A&Wedw chronic)**	**<1 - 15.5**	**18 of 23 samples** **18 of 23 events**	**Impaired**	
			Turbidity (former standard) **NTU**	**50** **(A&Wedw)**	**0.34 - 95**	**5 of 23**	**Inconclusive (see comment)**	
Grand Canal HUC boundary 15070101 - New River AZ15070102-250 AgI, AgL	SRP Routine Monitoring At 99th Ave, Phoenix SVLT 2-23-0 MGGRC000.70	1998 - 10 partial suites 1999 - 12 partial suites 2000 - 11 partial suites 2001 - 11 partial suites 2002 - 11 partial suites	No exceedances					
	Summary Row **AgI Inconclusive** **AgL Inconclusive**	**1998 - 2002** **55 sampling events**	**No exceedances**					**SRP collected 55 samples in 1998-2002. Assessed as "inconclusive" and placed on the Planning List due to missing core parameters: field pH and total metals (copper, lead, and manganese).**
Hassayampa River headwaters - Copper Creek AZ15070103-007A A&Wc, FC, FBC, AgI, AgL	ADEQ TMDL Program At headwaters MGHSR112.14 101151	2001 - 1 partial suite	pH SU	6.5 - 9.0 (A&Wc, FBC, AgL)	5.5	1 of 1		Lab reporting limits for 1 dissolved cadmium and copper sample were too high to use results for assessment.
	ADEQ TMDL Program Aspen - Below spring MGHSR111.45 101005	2000 - 1 partial suite 2001 - 3 partial suites	Dissolved oxygen mg/L	>7.0 (90%saturation) (A&Wc)	6.5 - 9.7 (65 - 97%)	1 of 3		Low dissolved oxygen due to naturally occurring ground water upwelling, and not anthropogenic causes. Not included in final assessment.
			pH SU	6.5 - 9.0 (A&Wc, FBC, AgL)	5.3 - 6.3	3 of 4		Lab reporting limits for 4 dissolved cadmium and copper samples were too high to use results for assessment.
	ADEQ TMDL Program McKinley Millsite - at Babble MGHSR110.65 100942	2000 - 2 partial suites 2001 - 6 partial suites	Cadmium (dissolved) µg/L	varies by hardness (A&Wc chronic)	<4 - 5	1 of 2		Lab reporting limits for 6 other dissolved cadmium samples were too high to use results for assessment.
			Copper (dissolved) µg/L	varies by hardness (A&Wc acute)	25 - 90	8 of 8		

TABLE 14. MIDDLE GILA WATERSHED -- 2004 ASSESSMENT MONITORING DATA

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCES OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
				varies by hardness (A&Wc chronic)	25 - 90	8 of 8		
			pH SU	6.5 - 9.0 (A&Wc, FBC, AgL)	5.8 - 7.1	1 of 8		
			Zinc (dissolved) µg/l	varies by hardness (A&Wc acute)	40 - 560	8 of 8		
				varies by hardness (A&Wc chronic)	40 - 560	8 of 8		
	ADEQ TMDL Program Above McCleur tributary MGHSR109.98 101067	2000 - 1 partial suite 2001 - 6 partial suites	Copper (dissolved) µg/L	varies by hardness (A&Wc acute)	<10 - 27	3 of 4		Lab reporting limits for 3 other copper samples were too high to use results for assessment.
				varies by hardness (A&Wc chronic)	<10 - 27	3 of 4		
	ADEQ TMDL Program At McCleur tributary MGHSR109.96 101066	2000 - 1 partial suite 2001 - 6 partial suites	Cadmium (dissolved) µg/L	varies by hardness (A&Wc acute)	20 - 37	7 of 7		Lab reporting limits for 6 other cadmium samples were too high to use results for assessment.
				varies by hardness (A&Wc chronic)	20 - 37	7 of 7		
			Copper (dissolved) µg/L	varies by hardness (A&Wc acute)	1400 - 4077	7 of 7		
				varies by hardness (A&Wc chronic)	1400 - 4077	7 of 7		
			Copper (total) µg/L	500 (AgL)	1530 - 2832	6 of 6		
				1300 (FBC)	1530 - 2832	6 of 6		
			pH SU	6.5 - 9.0 (A&Wc, FBC, AgL)	3.4 - 4.1	6 of 6		
				4.5 - 9.0 (AgI)	3.4 - 4.1	6 of 6		
			Zinc (dissolved) µg/L	varies by hardness (A&Wc acute)	1020 - 3070	7 of 7		
				varies by hardness (A&Wc chronic)	1020 - 3070	7 of 7		
	ADEQ TMDL Program Below McCleur tributary MGHSR109.95 101065	2000 - 1 partial suite 2001 - 5 partial suites	Cadmium (dissolved) µg/L	varies by hardness (A&Wc acute)	<5 - 11	2 of 3		Lab reporting limits for 4 dissolved cadmium samples were too high to use results for assessment.
				varies by hardness (A&Wc chronic)	<5 - 11	2 of 2		
			Copper (dissolved) µg/L	varies by hardness (A&Wc acute)	146 - 575	6 of 6		
				varies by hardness (A&Wc chronic)	146 - 575	6 of 6		

TABLE 14. MIDDLE GILA WATERSHED -- 2004 ASSESSMENT MONITORING DATA

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCES OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
			Copper (total) µg/L	500 (AgL)	334 - 976	1 of 4		
			pH SU	6.5 - 9.0 (A&Wc, FBC, AgL)	5.4 - 6.8	3 of 6		
			Zinc (dissolved) µg/L	varies by hardness (A&Wc acute)	390 - 870	6 of 6		
				varies by hardness (A&Wc chronic)	390 - 870	6 of 6		
	ADEQ TMDL Program and Weston Solutions for EPA Above Senator mine MGHSR109.78 101037	2000 - 1 partial suite 2001 - 6 partial suites	Cadmium (dissolved) µg/L	varies by hardness (A&Wc acute)	<4 - 19	3 of 5		Lab reporting limits for some dissolved cadmium samples were too high to use results for assessment. Additional samples taken by Weston Solutions showed exceedances but were not used in this assessment. QA/QC protocols were not fulfilled and resulted in estimated values.
				varies by hardness (A&Wc chronic)	<4 - 19	2 of 3		
			Copper (dissolved) µg/L	varies by hardness (A&Wc acute)	30 - 1300	7 of 7		
				varies by hardness (A&Wc chronic)	30 - 1300	7 of 7		
			Copper (total) µg/L	500 (AgL)	116 - 1620	2 of 5		
			pH SU	6.5 - 9.0 (A&Wc, FBC, AgL)	6.0 - 6.9	2 of 5		
			Zinc (dissolved) µg/L	varies by hardness (A&Wc acute)	70 - 1030	7 of 7		
				varies by hardness (A&Wc chronic)	70 - 1030	7 of 7		
	ADEQ TMDL Program and Weston Solutions for EPA At Senator mine MGHSR109.75 101084	2001 - 6 partial suites	Cadmium (dissolved) µg/L	varies by hardness (A&Wc acute)	22.9 - 161	6 of 6		Lab reporting limits for some dissolved cadmium samples were too high to use results for assessment. Additional samples taken by Weston Solutions showed exceedances but were not used in this assessment. QA/QC protocols were not fulfilled and resulted in estimated values.
				varies by hardness (A&Wc chronic)	22.9 - 161	6 of 6		
			Cadmium (total) µg/L	50 (AgI, AgL)	33 - 157	1 of 5		
				84 (FC)	33 - 157	1 of 5		
			Copper (dissolved) µg/L	varies by hardness (A&Wc acute)	<10 - 73.1	1 of 5		
				varies by hardness (A&Wc chronic)	<10 - 73.1	2 of 5		
			Zinc (dissolved) µg/L	varies by hardness (A&Wc acute)	2040 - 13,000	6 of 6		
				varies by hardness (A&Wc chronic)	2040 - 13,000	6 of 6		

TABLE 14. MIDDLE GILA WATERSHED -- 2004 ASSESSMENT MONITORING DATA

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCES OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
			Zinc (total) µg/L	10,000 (AgI)	3350 - 15,300	1 of 5		
	ADEQ TMDL Program and Weston Solutions for EPA Downstream of Senator Mine MGHSR109.68 101036	2000 - 2 partial suites 2001 - 1 partial suite	Cadmium (dissolved) µg/L	varies by hardness (A&Wc acute)	8 - 34	5 of 6		Additional samples taken by Weston Solutions showed exceedances but were not used in this assessment. QA/QC protocols were not fulfilled and resulted in estimated values.
				varies by hardness (A&Wc chronic)	8 - 34	6 of 6		
			Copper (dissolved) µg/L	varies by hardness (A&Wc acute)	12 - 348	4 of 6		
				varies by hardness (A&Wc chronic)	12 - 348	6 of 6		
			Zinc (dissolved) µg/L	varies by hardness (A&Wc acute)	720 - 3450	6 of 6		
				varies by hardness (A&Wc chronic)	720 - 3450	6 of 6		
	ADEQ TMDL Program At Whispering Pines MGHSR108.17 100941	2000 - 2 partial suites 2001 - 5 partial suites	Dissolved oxygen mg/L	>7.0 (90% saturation) (A&Wc)	5.1 - 10.8 64 - 105%	1 of 5		Lab reporting limit for dissolved cadmium were too high on 1 sample to use results for assessment. Low dissolved oxygen due to naturally occurring ground water upwelling, and not anthropogenic causes. Not included in final assessment.
			Cadmium (dissolved) µg/L	varies by hardness (A&Wc acute)	<5 - 7	2 of 7		
				varies by hardness (A&Wc chronic)	<5 - 7	6 of 6		
			Copper (dissolved) µg/L	varies by hardness (A&Wc acute)	<10 - 207	4 of 7		
				varies by hardness (A&Wc chronic)	<10 - 207	5 of 7		
			Zinc (dissolved) µg/L	varies by hardness (A&Wc acute)	330 - 680	7 of 7		
				varies by hardness (A&Wc chronic)	330 - 680	7 of 7		
	ADEQ TMDL Program At Jersey MGHSR105.37 101195	2001 - 1 partial suite	No exceedances					Lab reporting limits for dissolved cadmium were too high to use results for assessment.

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STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCES OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
	Summary Row **A&Wc Not attaining** **FC Not attaining** **FBC Not attaining** **AgI Not attaining** **AgL Not attaining**	**2000 - 2001** **57 samples** **10 sampling events**	**Cadmium (dissolved) µg/L**	**varies by hardness (A&Wc acute)**	**<4 - 161**	**26 of 39 samples 8 of 10 events (in 2000-2001)**	**Not attaining**	**ADEQ collected 57 samples at 11 sites in 2000 - 2001. TMDLs for cadmium, copper, pH, and zinc were approved by EPA in 2002.** **Assessed as "not attaining" due to cadmium, copper, pH, and zinc exceedances. Although current cadmium data are inconclusive, reach will remain "not attaining" for for all parameters addressed in the TMDL until data indicate designated uses are being attained.** **Placed on the Planning List for TMDL follow up monitoring and missing core parameters: *Escherichia coli*, turbidity/SSC, total boron, and total metals (mercury, manganese, copper, and lead).**
				varies by hardness (A&Wc chronic)	**<4 - 161**	**30 of 32 samples 10 of 10 events**	**Not attaining**	
			Cadmium (total) µg/L	**50 (AgI, AgL)**	**33 - 157**	**1 of 5**	**Inconclusive (Not attaining)**	
				84 (FC)	**33 - 157**	**1 of 5**	**Inconclusive (Not attaining)**	
			Copper (dissolved) µg/L	**varies by hardness (A&Wc acute)**	**<10 - 1300**	**38 of 50 samples 9 of 10 events (in 2000-2001)**	**Not attaining**	
				varies by hardness (A&Wc chronic)	**<10 - 2300**	**41 of 49 samples 9 of 10 events**	**Not attaining**	
			Copper (total) µg/L	**1300 (FBC)**	**116 - 2832**	**6 of 48**	**Attaining**	
				500 (AgL)	**116 - 2832**	**9 of 48**	**Not attaining**	
			pH SU	**6.5 - 9.0 (A&Wc, FBC, AgL)**	**5.3 - 8.36**	**16 of 52**	**Not attaining**	
			Zinc (dissolved) µg/L	**varies by hardness (A&Wc acute)**	**<20 - 13,000**	**46 of 59 samples 10 of 10 events (in 2000-2001)**	**Not attaining**	
				varies by hardness (A&Wc chronic)	**<20 - 13,000**	**46 of 59 samples 10 of 10 events**	**Not attaining**	
Hassayampa River Copper Creek - Blind Indian Creek AZ15070103-007B A&Ww, FC, FBC, AgI, AgL	ADEQ TMDL Program Intermittent Site MGHSR93.19 101193	2001 - 1 partial suite	No exceedances					
	ADEQ TMDL Program At gaging station MGHSR089.37 100940	2000 - 2 field 2001 - 4 partial suites	No exceedances					Lab reporting limits for dissolved cadmium were too high to use results for assessment.
	ADEQ TMDL Program Below French Gulch at confluence with Milk Creek MGHSR83.47 101128	2001 - 4 partial suites	No exceedances					Lab reporting limits for dissolved cadmium were too high to use results for assessment.
	ADEQ Fixed Station Network Near Wagoner, Below Milk Creek MGHSR063.02 100464	1999 - 4 full suites 2000 - 3 full suites 2001 - 4 full suites 2002 - 4 full suites	Arsenic (total) µg/L	50 (FBC)	<10 - 67	1 of 15		Low dissolved oxygen due to naturally occurring ground water upwelling, and not anthropogenic causes. Not included in final assessment. All exceedances except *Escherichia coli* and dissolved oxygen occurred following monsoon rains.
			Chronium (total) µg/L	100 (FBC)	<10 - 170	1 of 15		
			Copper (total) µg/L	500 (AgL)	<10 - 1100	1 of 15		

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			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
			Dissolved oxygen mg/L	>6.0 (90% saturation) (A&Ww)	2.6 - 10.7 (30 - 128%)	3 of 15		
			Escherichia coli CFU/100 ml	235 (FBC)	<2 - 530	1 of 12		
			Lead (total) µg/L	100 (AgL)	<5 - 150	1 of 15		
				15 (FBC)	<5 - 150	1 of 15		
			Turbidity (former standard) NTU	50 (A&Ww)	0.58 - >1000	1 of 13		
	ADEQ TMDL Program At Blind Indian Creek MGHSR081.07 101003	2000 - 1 field, cadmium, copper, zinc 2001 - 4 field, cadmium, copper, zinc	Cadmium (dissolved) µg/L	varies by hardness (A&Ww chronic)	<1 - 7.0	1 of 5		Lab reporting limits for 4 other dissolved cadmium samples were too high to use results for assessment.
	Summary Row **A&Ww Inconclusive** **FC Attaining** **FBC Inconclusive** **AgI Attaining** **AgL Attaining**	**1999 - 2002** **30 samples** **27 sampling events**	**Arsenic (total)** **µg/L**	**50** **(FBC)**	**<10 - 67**	**1 of 15**	**Attaining**	**ADEQ collected 30 samples at 5 sites in 1999 - 2002. Assessed as "attaining some uses" and placed on the Planning List due to cadmium and *Escherichia coli* exceedances.**
			Cadmium (dissolved) **µg/L**	**varies by hardness** **(A&Ww chronic)**	**<1 - 7.0**	**1 of 16 samples** **1 of 16 events**	**Inconclusive**	
			Chromium (total) **µg/L**	**100** **(FBC)**	**<10 - 170**	**1 of 15**	**Attaining**	
			Copper (total) **µg/L**	**500** **(AgL)**	**<10 - 1100**	**1 of 15**	**Attaining**	
			Escherichia coli **CFU/100 ml**	**235** **(FBC)**	**<2 - 530**	**1 of 12 samples** **1 of 12 events** **(in 2001)**	**Inconclusive**	
			Lead (total) **µg/L**	**100** **(AgL)**	**<5 - 150**	**1 of 15**	**Attaining**	
				15 **(FBC)**	**<5 - 150**	**1 of 15**	**Attaining**	
			Turbidity (former standard) **NTU**	**50** **(A&Ww)**	**0.58 - >1000**	**1 of 13**	**Attaining**	
Hassayampa River Cottonwood Creek - Martinez Wash AZ15070103-004 A&Ww, FC, FBC, AgI, AgL	ADEQ and USGS Ambient Monitoring At Box Canyon Dam MGHSR049.89 100463	1999 - 4 full suites 2000 - 4 full suites 2001 - 4 full suites 2002 - 4 full suites	Arsenic (total) µg/L	50 (FBC)	<10 - 53	1 of 15		
			Chromium (total) µg/L	100 (FBC)	<10 - 200	1 of 15		
			Copper (total) µg/L	500 (AgL)	<10 - 610	1 of 15		
			Escherichia coli CFU/100 ml	235 (FBC)	2 - 11,400	1 of 14		

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			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
			Lead (total) µg/L	100 (AgL)	<5 - 100	1 of 15		
				15 (FBC)	<5 - 100	1 of 15		
			Turbidity (former standard) NTU	50 (A&Ww)	0.8 - >1000	2 of 15		
	Summary Row **A&Ww Attaining** **FC Attaining** **FBC Attaining** **AgI Attaining** **AgL Attaining**	**1999 - 2002** **16 sampling events**	**Arsenic (total)** **µg/L**	**50** **(FBC)**	**<10 - 53**	**1 of 15**	**Attaining**	**ADEQ and USGS collected 16 samples in 1999-2002. Assessed as "attaining all uses."**
			Chromium (total) **µg/L**	**100** **(FBC)**	**<10 - 200**	**1 of 15**	**Attaining**	
			Copper (total) **µg/L**	**500** **(AgL)**	**<10 - 610**	**1 of 15**	**Attaining**	
			Escherichia coli **CFU/100 ml**	**235** **(FBC)**	**2 - 11,400**	**1 of 14** **(Not in the last 3 years of sampling)**	**Attaining**	
			Lead (total) **µg/L**	**100** **(AgL)**	**<5 - 100**	**1 of 15**	**Attaining**	
				15 **(FBC)**	**<5 - 100**	**1 of 15**	**Attaining**	
			Turbidity (former standard) **NTU**	**50** **(A&Ww)**	**0.8 - >1000**	**2 of 15**	**Attaining**	
Hassayampa River Sols Wash - 8 miles below Wickenburg AZ15070103-002A A&Ww, FC, FBC, AgL, AgI	ADEQ Ambient Monitoring At Nature Conservancy near Wickenburg MGHSR042.28 100462	2001 - 1 full suite 2002 - 2 full suites	Dissolved oxygen mg/L	>6.0 (90% saturation) (A&Ww)	2.94 - 3.38	3 of 3		Low dissolved oxygen due to naturally occurring ground water upwelling, and not anthropogenic causes. Not included in final assessment.
			Escherichia coli CFU/100 mL	235 (FBC)	4 - 590	1 of 3		
	Summary Row **A&Ww Attaining** **FC Attaining** **FBC Inconclusive** **AgI Attaining** **AgL Attaining**	**2001 - 2002** **3 sampling events**	***Escherichia coli*** **CFU/100 mL**	**235** **(FBC)**	**4 - 590**	**1 of 3 events** **(in 2002)**	**Inconclusive**	**ADEQ collected 3 samples in 2001-2002. Assessed as "attaining some uses" and placed on the Planning List due to *Escherichia coli* exceedance.**
Hassayampa River Buckeye Canal - Gila River AZ15070103-001B A&Ww, FC, FBC, AgL	USGS NAWQA Site #09517000 Near Arlington MGHSR001.56	1998 - 4 partial suites	DDE µg/L	0.001 (FC, AgL)	0.003 - 0.010	2 of 4		2 other samples exceeded the DDE standard, but the values were estimated and could not be used for assessment.
	ADEQ Ambient Monitoring Above Gila River MGHSR000.23 101197	2001 - 1 full suite 2002 - 3 full suites	Turbidity (former standard) NTU	50 (A&Ww)	18.1 - 110	1 of 4		

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			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
	Summary Row **A&Ww Inconclusive** **FC Impaired*** **FBC Attaining** **AgL Inconclusive**	**1998 - 2002** **8 sampling events**	**DDE** **(a DDT metabolite)** **µg/L**	**0.001** **(FC, AgL)**	**0.003 - 0.010**	**2 of 4**	**Inconclusive** **(Impaired)**	**ADEQ and USGS collected 8 samples in 1998 - 2002. Assessed as "impaired" due to DDT, toxaphene, and chlordane in fish tissue.** **EPA placed this reach on the 2002 303(d) List because of pesticide contamination in fish tissue and a fish consumption advisory. Once listed, this reach cannot be delisted until a TMDL is complete or sufficient data are collected to indicate these parameters are no longer a concern in fish tissue (i.e., the fish consumption advisory is removed).** **Also on the Planning List due to exceedance of the former turbidity standard. Monitoring will be scheduled to determine whether suspended sediment or bottom deposit violations are occurring.**
			Turbidity (former standard) **NTU**	**50** **(A&Ww)**	**18.1 - 110**	**1 of 4**	**Inconclusive** **(see comment)**	
Hassayampa River, unnamed tributary of headwaters - Hassayampa River AZ15070103-417 A&Wc, FC, FBC (tributary rule)	Weston Solutions for EPA Background sample MGUHS000.12	2001 - 1 dissolved metals suite	Copper (dissolved) µg/L	varies by hardness (A&Wc acute)	27.7	1 of 1		Additional samples taken by Weston Solutions showed exceedances but were not used in this assessment. QA/QC protocols were not fulfilled and resulted in estimated values.
				varies by hardness (A&Wc chronic)	27.7	1 of 1		
	Summary Row **A&Wc Inconclusive** **FC Inconclusive** **FBC Inconclusive**	**2001** **1 sampling event**	**Copper (dissolved)** **µg/L**	**varies by hardness** **(A&Wc acute)**	**27.7**	**1 of 1 event** **(in 2001)**	**Inconclusive**	**Insufficient monitoring data to assess.** **Placed on the Planning List due to copper exceedance.**
				varies by hardness **(A&Wc chronic)**	**27.7**	**1 of 1 event**	**Inconclusive**	
Indian Bend Wash headwaters - Salt River AZ15060106B-179 A&We, PBC	USGS At 40th Street MGIBW001.43 101520	2001 - 1 field, metals 2002 - 2 field, metals	Lead (total) µg/L	15 (PBC)	10 - 38	1 of 3		
	USGS At Curry Road MGIBW000.23 101492	1998 - 3 partial suites	No exceedances					
	Summary Row **A&We Inconclusive** **PBC Inconclusive**	**1998 - 2002** **6 sampling events**	**Lead (total)** **µg/L**	**15** **(PBC)**	**10 - 38**	**1 of 3**	**Inconclusive**	**USGS collected 6 samples at 2 sites in 1998-2002. Assessed as "inconclusive" and placed on the Planning List due to lead exceedance and missing core parameters: dissolved metals (cadmium, copper, zinc).**
Little Ash Creek headwaters - Ash Creek AZ15070102-039 A&Ww, FC, FBC, AgL	ADEQ Ambient Monitoring Near Estler Peak MGLAS003.16 100578	1998 - 1 partial suite 2002 - 1 full suite	No exceedances					

TABLE 14. MIDDLE GILA WATERSHED -- 2004 ASSESSMENT MONITORING DATA

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCES OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
	Summary Row **A&Ww Inconclusive** **FC Inconclusive** **FBC Inconclusive** **AgL Inconclusive**	**1998 - 2002** **2 sampling events**	**No exceedances**					**Insufficient monitoring data to assess.**
Lynx Creek, unnamed tributary of headwaters - Lynx Creek AZ15070102-124 A&Wc, FC, FBC (tributary rule)	Weston Solutions for EPA Above Blue John Creek MGULN000.13	2001 - 1 dissolved metals suite	Cadmium (dissolved) µg/L	varies by hardness (A&Wc acute)	42.2	1 of 1		Additional samples taken by Weston Solutions showed exceedances but were not used in this assessment. QA/QC protocols were not fulfilled and resulted in estimated values.
				varies by hardness (A&Wc chronic)	42.2	1 of 1		
			Copper (dissolved) µg/L	varies by hardness (A&Wc acute)	1090	1 of 1		
				varies by hardness (A&Wc chronic)	1090	1 of 1		
			Zinc (dissolved) µg/L	varies by hardness (A&Wc acute)	3010	1 of 1		
				varies by hardness (A&Wc chronic)	3010	1 of 1		
	Weston Solutions for EPA At Blue John Creek MGULN000.11	2001 - 1 dissolved metals suite	Cadmium (dissolved) µg/L	varies by hardness (A&Wc acute)	40.7	1 of 1		
				varies by hardness (A&Wc chronic)	40.7	1 of 1		
			Copper (dissolved) µg/L	varies by hardness (A&Wc acute)	826	1 of 1		
				varies by hardness (A&Wc chronic)	826	1 of 1		
			Zinc (dissolved) µg/L	varies by hardness (A&Wc acute)	2820	1 of 1		
				varies by hardness (A&Wc chronic)	2820	1 of 1		
	Weston Solutions for EPA Below Blue John Creek MGULN000.07	2001 - 1 dissolved metals suite	Cadmium (dissolved) µg/L	varies by hardness (A&Wc acute)	39	1 of 1		
				varies by hardness (A&Wc chronic)	39	1 of 1		
			Copper (dissolved) µg/L	varies by hardness (A&Wc acute)	585	1 of 1		
				varies by hardness (A&Wc chronic)	585	1 of 1		
			Zinc (dissolved) µg/L	varies by hardness (A&Wc acute)	2630	1 of 1		
				varies by hardness (A&Wc chronic)	2630	1 of 1		

TABLE 14. MIDDLE GILA WATERSHED -- 2004 ASSESSMENT MONITORING DATA

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCES OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
	Summary Row **A&Wc Inconclusive** **FC Inconclusive** **FBC Inconclusive**	**2001** **3 samples** **1 sampling event**	**Cadmium (dissolved) µg/L**	**varies by hardness (A&Wc acute)**	**39 - 42.2**	**3 of 3 samples 1 of 1 event (in 2001)**	**Inconclusive**	**Insufficient monitoring data to assess.** **Placed on the Planning List due to cadmium, copper, and zinc exceedances.**
				varies by hardness (A&Wc chronic)	**39 - 42.2**	**3 of 3 samples 1 of 1 event**	**Inconclusive**	
			Copper (dissolved) µg/L	**varies by hardness (A&Wc acute)**	**585 - 1090**	**3 of 3 samples 1 of 1 event (in 2001)**	**Inconclusive**	
				varies by hardness (A&Wc chronic)	**585 - 1090**	**3 of 3 samples 1 of 1 event**	**Inconclusive**	
			Zinc (dissolved) µg/L	**varies by hardness (A&Wc acute)**	**2630 - 3010**	**3 of 3 samples 1 of 1 event (in 2001)**	**Inconclusive**	
				varies by hardness (A&Wc chronic)	**2630 - 3010**	**3 of 3 samples 1 of 1 event**	**Inconclusive**	
Martinez Canyon headwaters - Box Canyon AZ15050100-080 A&Ww, FC, FBC, AgL	ADEQ Ambient Monitoring MGMZC004.21 101349	2002 - 1 full suite	Dissolved oxygen mg/L	>6.0 (90% saturation) (A&Ww)	3.07	1 of 1		Low dissolved oxygen due to naturally occurring ground water upwelling, and not anthropogenic causes. Not included in final assessment.
	Summary Row **A&Ww Inconclusive** **FC Inconclusive** **FBC Inconclusive** **AgL Inconclusive**	**2002** **1 sampling event**	**No exceedances**					**Assessed as "inconclusive" and placed on the Planning List due to insufficient monitoring events.**
Mineral Creek Devils Canyon - Gila River AZ15050100-012B A&Ww, FC, FBC, AgL	ASARCO Consent Decree Monitoring At Indian Gardens (Above mine) (Site IG) MGMIN007.55	1998 - 12 partial suites 1999 - 12 partial suites 2000 - 11 partial suites 2001 - 6 partial suites	Copper (dissolved) µg/L	varies by hardness (A&Ww acute)	<20 - 24	1 of 41		Low dissolved oxygen due to naturally occurring ground water upwelling, and not anthropogenic causes. Not included in final assessment.
				varies by hardness (A&Ww chronic)	<20 - 24	2 of 41		
			Dissolved oxygen mg/L	>6.0 (90% saturation) (A&Ww)	3.5 - 15.2	10 of 41		
			Lead (total) µg/L	15 (FBC)	<2 - 54	1 of 41		
			Selenium (total) µg/L	2.0 (A&Ww chronic)	<2 - 3.5	1 of 41		
			Turbidity (former standard) NTU	50 (A&Ww)	0.5 - 960	7 of 41		

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STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCES OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
	ASARCO Consent Decree Monitoring Mineral Creek Diversion Tunnel Inlet (Site MCTI) MGMIN005.77	2001 - 12 partial suites 2002 - 8 partial suites	Dissolved oxygen mg/L	>6.0 (90% saturation) (A&Ww)	2.8 - 7.3	15 of 22		Low dissolved oxygen due to naturally occurring ground water upwelling, and not anthropogenic causes. Not included in final assessment. Sampling ended at this site in September, 2002. Water was diverted from the area after new tunnel extension. Additional samples taken 1998 - 2000. See comment in summary row.
			Copper (dissolved) µg/L	varies by hardness (A&Ww acute)	<10 - 21	1 of 20		
				varies by hardness (A&Ww chronic)	<10 - 21	1 of 20		
	ASARCO Consent Decree Monitoring Mineral Creek Diversion Tunnel Outlet (Site MCTO) MGMIN004.74	2001 - 11 partial suites 2002 - 11 partial suites	Copper (dissolved) µg/L	varies by hardness (A&Ww acute)	<10 - 25	1 of 22		Low dissolved oxygen due to naturally occurring ground water upwelling, and not anthropogenic causes. Not included in final assessment. Additional samples taken 1998 - 2000. See comment in summary row.
				varies by hardness (A&Ww chronic)	<10 - 25	2 of 22		
			Dissolved oxygen mg/L	>6.0 (90% saturation) (A&Ww)	4.4 - 9.4	2 of 21		
			Selenium (total) µg/L	2.0 (A&Ww chronic)	<2.0 - 8.7	17 of 22		
	ASARCO Consent Decree Monitoring Channel Outlet (Site Surf 8w) MGMIN002.21	2001 - 8 partial suites 2002 - 11 partial suites	Copper (dissolved) µg/L	varies by hardness (A&Ww acute)	<10 - 27	1 of 19		Additional samples taken 1998 - 2000. See comment in summary row.
				varies by hardness (A&Ww chronic)	<10 - 27	1 of 19		
			Dissolved oxygen mg/L	>6.0 (90% saturation) (A&Ww)	4.37 - 11.28	2 of 18		
			Selenium µg/L	2.0 (A&Ww chronic)	<2.0 - 8.4	16 of 19		
	ASARCO Consent Decree Monitoring Below highway bridge 177 (Site Min-1) MGMIN001.35	2002 - 1 partial suite	Copper µg/L	varies by hardness (A&Ww acute)	<10 - 32	1 of 19		
				varies by hardness (A&Ww chronic)	<10 - 32	1 of 19		
			Selenium µg/L	2.0 (A&Ww chronic)	<2.0 - 3.1	1 of 7		

TABLE 14. MIDDLE GILA WATERSHED -- 2004 ASSESSMENT MONITORING DATA

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCES OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
	Summary Row **A&Ww Impaired** **FC Inconclusive** **FBC Inconclusive** **AgL Attaining**	**1998 - 2002** **103 samples** **41 sampling events**	**Copper (dissolved)** **µg/L**	**varies by hardness** **(A&Ww acute)**	**<20 - 24**	**1 of 41 events** **(in 2001)**	**Inconclusive** **(Impaired)**	**ASARCO collected 103 samples in 2001 - 2002. Assessed as "impaired" due to copper and selenium exceedances.** **ASARCO began diverting water in 2001. Prior to diversion, exceedances occurred for cadmium, copper, lead, nickel, pH, turbidity, and zinc, in addition to selenium. Water quality significantly improved beginning in January 2001, except for copper, selenium and turbidity. Therefore, exceedances before the water diversion were not included in this assessment statistics.** **On the Planning List due to:** **1. Former turbidity standard exceedances. Monitoring will be scheduled to determine whether suspended sediment or bottom deposit violations are occurring.** **2. Missing core parameters: *Escherichia coli* and total mercury.**
				varies by hardness **(A&Ww chronic)**	**<20 - 24**	**2 of 41 events**	**Impaired**	
			Lead (total) **µg/L**	**15** **(FBC)**	**<2 - 54**	**1 of 103**	**Attaining**	
			Selenium (total) **µg/L**	**2.0** **(A&Ww chronic)**	**<2 - 3.5**	**19 of 41 events**	**Impaired**	
			Turbidity (former standard) **NTU**	**50** **(A&Ww)**	**0.5 - 960**	**7 of 103** **7 of 41 above treatment**	**Inconclusive** **(see comment)**	
New River headwaters - Interstate 17 AZ15070102-006A A&Ww, FC, FBC, AgI, AgL	ADEQ Biocriteria Program Above Burnt Hole Canyon MGNWR040.70 100604	1998 - 1 partial suite	No exceedances					
	Summary Row **A&Ww Inconclusive** **FC Inconclusive** **FBC Inconclusive** **AgI Inconclusive** **AgL Inconclusive**	**1998** **1 sampling event**	**No exceedances**					**Insufficient monitoring data to assess.**
Queen Creek headwaters - Superior Mine WWTP AZ15050100-014A A&We, PBC, AgL	BHP Copper Consent Decree Monitoring Above mine discharge AMP1	1998 - 3 field, metals 2000 - 1 field, metals 2001 - 4 field, metals	Copper (dissolved) µg/L	varies by hardness (A&We)	<20 - 30	1 of 8		
	Summary Row **A&We Impaired** **PBC Attaining** **AgL Inconclusive**	**1998 - 2001** **8 sampling events**	**Copper (dissolved)** **µg/L**	**varies by hardness** **(A&We)**	**<20 - 30**	**1 of 8 events** **(in 2000)**	**Inconclusive** **(Impaired)**	**BHP collected 8 samples in 1998-2001. Assessed as "impaired" in 2002 due to copper exceedances.** **Reach was on 2002 303(d) List for copper. Although current copper data are inconclusive, the reach will remain "impaired" until a TMDL is complete or copper data indicate designated uses are being attained.** **ADEQ investigation indicates that the reach may be intermittent rather than ephemeral, and therefore, more stringent water quality standards should be adopted for this reach.** **Also placed on the Planning List due to missing core parameters: dissolved cadmium and total lead.**

TABLE 14. MIDDLE GILA WATERSHED -- 2004 ASSESSMENT MONITORING DATA

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCES OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
Queen Creek Superior Mine WWTP - Potts Canyon AZ15050100-014B A&Wedw, PBC	BHP Copper Consent Decree Monitoring Below mine discharge AMP2	1998 - 3 partial suites 2000 - 1 partial suites 2001 - 4 partial suites	Copper (dissolved) µg/L	varies by hardness (A&Wedw acute)	<20 - 30	1 of 8		
				varies by hardness (A&Wedw chronic)	<20 - 30	1 of 8		
	ADEQ Ambient Monitoring Above Boyce-Thompson Arboretum MGQEN028.97 100624	2002 - 1 full suite	Copper (dissolved) µg/L	varies by hardness (A&Wedw acute)	50	1 of 1		
				varies by hardness (A&Wedw chronic)	50	1 of 1		
			Selenium (total) µg/L	2.0 (A&Wedw chronic)	5.8	1 of 1		
	Summary Row **A&Wedw Impaired** **PBC Inconclusive**	**1998 - 2002** **9 sampling events**	**Copper (dissolved)** **µg/L**	**varies by hardness** **(A&Wedw acute)**	**<20 - 50**	**2 of 9 samples** **2 of 9 events** **(in 2000 and 2002)**	**Impaired**	**BHP and ADEQ collected 9 samples in 1998-2002. Assessed as "impaired" due to copper exceedances.** **Placed on the Planning List due to selenium exceedance and missing core parameters: dissolved cadmium, *Escherichia coli*, and total lead.**
				varies by hardness **(A&Wedw chronic)**	**<20 - 50**	**2 of 9 samples** **2 of 9 events**	**Impaired**	
			Selenium (total) **µg/L**	**varies by hardness** **(A&Wedw chronic)**	**5.8**	**1 of 1 sample** **1 of 1 event**	**Inconclusive**	
Salt River 2 km below Granite Reef dam - Interstate 10 bridge AZ15060106B-001B A&We, PBC	USGS At Priest Drive near Phoenix MGSLR013.74 101493	1998 - 1 partial suite	No exceedances					
	Summary Row **A&We Inconclusive** **PBC Inconclusive**	**1998** **1 sampling event**	**No exceedances**					**Insufficient monitoring data to assess.**
Salt River 23rd Ave WWTP - Gila River AZ15060106B-001D A&Wedw, FC, PBC, AgI, AgL	USGS NAWQA Site #09512407 Below Tres Rios discharge MGSLR001.88 101265	2001 - 1 full suite 2002 - 3 full suites	No exceedances					
	Summary Row **A&Wedw Attaining** **FC Impaired*** **PBC Attaining** **AgI Attaining** **AgL Attaining**	**2001 - 2002** **4 sampling events**	**No exceedances**					**USGS collected 4 samples in 2001-2002.** ***Assessed as "impaired" due to DDT, toxaphene, and chlordane in fish tissue. EPA placed this reach on the 2002 303(d) List because of this pesticide contamination in fish tissue and a fish consumption advisory. Once listed, this reach cannot be delisted until a TMDL is complete or sufficient data are collected to indicate these parameters are no longer a concern in fish tissue (i.e., fish consumption advisory is removed).**

TABLE 14. MIDDLE GILA WATERSHED -- 2004 ASSESSMENT MONITORING DATA

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCES OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
South Canal Granite Reef Dam - Consolidated Canal AZ15060106B-180 DWS, AgI, AgL	SRP Routine Monitoring At division gates MGSOC006.83 SVCA 3-3.3	1998 - 10 partial suites 1999 - 11 parial suites 2000 - 11 partial suites 2001 - 12 partial suites 2002 - 11 partial suites	No exceedances					
	SRP Routine Monitoring At Val Vista Water Treatment Plant SVCA 3-1.4	1998 - 11 partial suites 1999 - 12 partial suites 2000 - 11 partial suites 2001 - 12 partial suites 2002 - 12 partial suites	No exceedances					
	SRP Routine Monitoring At Granite Reef Dam MGSOC000.05 SVCA 3-0.0	1998 - 11 partial suites 1999 - 12 partial suites 2000 - 11 partial suites 2001 - 12 partial suites 2002 - 12 partial suites	No exceedances					
	Summary Row **DWS Inconclusive** **AgI Inconclusive** **AgL Inconclusive**	**1998 - 2002** **171 samples** **58 sampling events**	**No exceedances**					**SRP collected 171 samples at 3 sites in 1998-2002. Assessed as "inconclusive" and placed on the Planning List due to missing core parameters: total metals (arsenic, chromium, lead, manganese, and copper).**
Sycamore Creek Tank Canyon-Agua Fria River AZ15070102-024B A&W\w, FC, FBC, AgL	ADEQ Ambient Monitoring Near Dugas Above ranger station MGSYD004.90 100704	1998 - 1 partial suite 2001 - 1 partial suite 2002 - 4 full suites	No exceedances					
	Summary Row **A&Ww Attaining** **FC Attaining** **FBC Attaining** **AgL Attaining**	**1998 - 2002** **6 sampling events**	**No exceedances**					**ADEQ collected 6 samples in 1998-2002. Assessed as "attaining all uses."**
Tempe Canal HUC boundary 15050100 - Western Canal AZ15050100-115 DWS, AgI, AgL	SRP Routine Monitoring At South Tempe Water Treatment Plant MGTPC004.16 SVCA 6-9.1	1998 - 10 partial suites 1999 - 8 partial suites 2000 - 11 partial suites 2001 - 11 partial suites 2002 - 10 partial suites	No exceedances					
	Summary Row **DWS Inconclusive** **AgI Inconclusive** **AgL Inconclusive**	**1998 - 2002** **50 samples**	**No exceedances**					**SRP collected 50 samples in 1998-2002. Assessed as "inconclusive" and placed on the Planning List due to missing core parameters: total metals (arsenic, chromium, lead, manganese, and copper).**
Turkey Creek headwaters - unnamed tributary at 34E19'28"/112E21'28" AZ15070102-036A A&Wc, FC, FBC, AgI, AgI	ADEQ TMDL Program At Forest Road 261 MGTRK014.8	2000 - 1 metals suite	No exceedances					
	ADEQ TMDL Program At Forest Road 706 MGTRK013.3	2000 - 1 metals suite	No exceedances					
	ADEQ TMDL Program At Goodwin MGTRK010.36	2000 - 1 metals suite 2001 - 3 metals suites	No exceedances					

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			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
	Summary Row **A&Wc Inconclusive** **FC Inconclusive** **FBC Inconclusive** **AgI Inconclusive** **AgL Inconclusive**	**2000 - 2001** **6 samples** **4 sampling events**	**No exceedances**					**ADEQ collected 6 samples at 3 sites in 2000-2001. Assessed as "inconclusive" and placed on the Planning List due to missing core parameters: turbidity/SSC, total boron, dissolved oxygen, *Escherichia coli*, and total metals (manganese and mercury).**
Turkey Creek unnamed tributary at 34E19'28"/112E21'28" - Poland Creek AZ15070102-036B A&Ww, FC, FBC, AgI, AgL	ADEQ TMDL Program At corral MGTRK006.54	2000 - 2 partial suites 2001 - 2 partial suites	No exceedances					Lab reporting limits for dissolved cadmium and copper sample were too high to use results for assessment.
	ADEQ TMDL Program At Forest Road 93 MGTRK003.8	2000 - 2 partial suites 2002 - 1 partial suite	Lead (total) µg/L	15 (FBC)	<5 - 76	1 of 1		Lab reporting limit for 1 of 3 dissolved cadmium samples was too high to use results for assessment.
	ADEQ TMDL Program At bridge just above tailings MGTRK002.45	2000 - 4 metals (total) 2001 - 3 metals suites 2002 - 1 partial suites	Lead (total) µg/L	15 (FBC)	<5 - 66	1 of 5		Lab reporting limits for dissolved cadmium for 4 of 5 samples were too high to use results for assessment.
	ADEQ TMDL Program At tributary near mines MGTRK002.25	2002 - 1 partial suites	Lead (total) µg/L	15 (FBC)	54 - 88	1 of 1		
	ADEQ TMDL Program At tailings runoff (in stream)	2001 - 2 partial suites	Arsenic (dissolved) µg/L	360 (A&Ww acute)	62 - 18,200	1 of 2		
				190 (A&Ww chronic)	62 - 18,200	1 of 2		
			Arsenic (total) µg/L	50 (FBC)	43 - 35,900	2 of 2		
				200 (AgL)		2 of 2		
				1450 (FC)		1 of 2		
				2000 (AgI)		1 of 2		
			Cadmium (dissolved) µg/L	varies by hardness (A&Ww acute)	53 - 626	2 of 2		
				varies by hardness (A&Ww chronic)	53 - 626	2 of 2		
			Cadmium (total) µg/L	50 (AgI)	11 - 883	2 of 2		
				50 (AgL)		2 of 2		
				84 (FC)		2 of 2		
			Copper (dissolved) µg/L	varies by hardness (A&Ww acute)	858 - 13,600	2 of 2		
				varies by hardness (A&Ww chronic)	858 - 13,600	2 of 2		
			Copper (total) µg/L	500 (AgL)	43 - 13,180	2 of 2		
				1300 (FBC)		2 of 2		

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			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
				5000 (AgI)		1 of 2		
			Lead (dissolved) µg/L	varies by hardness (A&Ww chronic)	<5 - 61	2 of 2		
			Lead (total) µg/L	15 (FBC)	5 - 1070	2 of 2		
				100 (AgL)		1 of 2		
			Zinc (dissolved) µg/L	varies by hardness (A&Ww acute)	7620 - 158,000	2 of 2		
				varies by hardness (A&Ww chronic)		2 of 2		
			Zinc (total) µg/L	10,000 (AgI)	1540 - 174,000	2 of 2		
				25,000 (AgL)		1 of 2		
				69,000 (FC)		1 of 2		
	ADEQ TMDL Program Downstream of mines MGTRK002.06	2000 - 1 partial suites 2001 - 2 partial suites 2002 - 1 partial suite	Arsenic (total) µg/L	50 (FBC)	<10 - 106	1 of 3		Some dissolved cadmium and dissolved copper samples could not be assessed due to lack of water hardness results.
			Lead (total) µg/L	15 (FBC)	<5 - 150	1 of 4		
			Zinc (dissolved) µg/L	varies by hardness (A&Ww acute)	<20 - 430	1 of 4		
				varies by hardness (A&Ww chronic)	<20 - 430	1 of 4		
	ADEQ TMDL Program Bottom site MGTRK002.02	2002 - 1 partial suite	Lead (total) µg/L	15 (FBC)	49 - 110	1 of 1		
	ADEQ TMDL Program Old biocriteria site MGTRK000.91	2001- 1 partial suite	No exceedances					
	Summary Row **A&Ww Impaired** **FC Attaining** **FBC Inconclusive** **AgI Inconclusive** **AgL Attaining**	**2000 - 2002** **24 samples** **7 sampling events**	**Arsenic (dissolved) µg/L**	**360 (A&Ww acute)**	**<5 - 18,200**	**1 of 16 samples 1 of 6 events (in 2001)**	**Inconclusive**	**ADEQ collected 24 samples at 8 sites in 2000 - 2002. Assessed as "impaired" due to cadmium, copper, lead, and zinc exceedances.** **Placed on the Planning List due to arsenic exceedances and missing core parameters: *Escherichia coli*, total boron, total manganese, and turbidity/SSC.**
				190 (A&Ww chronic)		**1 of 16 samples 1 of 6 events**	**Inconclusive**	
			Arsenic (total) µg/L	**50 (FBC)**	**<5 - 37,900**	**3 of 16**	**Attaining**	
				200 (AgL)		**2 of 16**	**Attaining**	
				1450 (FC)		**1 of 16**	**Attaining**	

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			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
				2000 (AgI)		1 of 16	Attaining	
			Cadmium (dissolved) µg/L	varies by hardness (A&Ww acute)	<1.0 - 931	2 of 9 samples 2 of 4 events (in 2001)	Impaired	
				varies by hardness (A&Ww chronic)	**<1.0 - 931**	**2 of 9 samples 2 of 4 events**	**Impaired**	
			Cadmium (total) µg/L	84 (FC)	<1.0 - 883	2 of 19	Attaining	
				50 (AgI, AgL)		2 of 19	Attaining	
			Copper (dissolved) µg/L	varies by hardness (A&Ww acute)	<10 - 13,600	2 of 13 samples 2 of 7 events (in 2001)	Impaired	
				varies by hardness (A&Ww chronic)		**2 of 13 samples 2 of 7 events**	**Impaired**	
			Copper (total) µg/L	500 (AgL)	<10 - 13,180	2 of 19	Attaining	
				1300 (FBC)		2 of 19	Attaining	
				5000 (AgI)		1 of 19	Attaining	
			Lead (dissolved)	**varies by hardness (A&Ww chronic)**	**<5 - 61**	**2 of 18 samples 2 of 7 events**	**Impaired**	
			Lead (total) µg/L	15 (FBC)	<5 - 1070	7 of 18 samples	Inconclusive	
				100 (AgL)		1 of 18 samples	Attaining	
			Zinc (dissolved) µg/L	varies by hardness (A&Ww acute)	<50 - 158,000	3 of 18 samples 3 of 7 events (in 2001)	Impaired	
				varies by hardness (A&Ww chronic)		3 of 18 samples 3 of 7 events	Impaired	
			Zinc (total)	10,000 (AgI)	<20 - 174,000	2 of 19	Attaining	
				25,000 (AgL)		2 of 19		
				69,000 (FC)		2 of 19		

TABLE 14. MIDDLE GILA WATERSHED -- 2004 ASSESSMENT MONITORING DATA

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCES OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
Western Canal Tempe Canal - HUC boundary 15050100 AZ15060106B-262 AgI, AgL	SRP Routine Monitoring At Lateral 12.8 Near 19th Ave, Phoenix MGWSC012.39 SVCA 7-12.8	1998 - 11 partial suites 1999 - 11 partial suites 2000 - 11 partial suites 2001 - 11 partial suites 2002 - 12 partial suites	No exceedances					
	Summary Row **AgI Inconclusive** **AgL Inconclusive**	**1998 - 2002** **56 sampling events**	**No exceedances**					**SRP collected 56 samples in 1998-2002. Assessed as "inconclusive" and placed on the Planning List due to missing core parameters: total metals (manganese, copper, and lead).**
Western Canal HUC boundary 15050100 - terminus AZ15050100-990 DWS, AgI, AgL	SRP Routine Monitoring At Kyrene Intake MGWSC006.00 SVCA 7-22E	1998 - 11 partial suites 1999 - 11 partial suites 2000 - 11 partial suites 2001 - 10 partial suites 2002 - 12 partial suites	Lead (dissolved) µg/L	15 (DWS)	<2 - 16	1 of 55		
			Selenium (dissolved) µg/L	20 (AgL)	<2 - 24	1 of 55		Dissolved selenium data was compared to total selenium standard.
	Summary Row **DWS Inconclusive** **AgI Inconclusive** **AgL Inconclusive**	**1998 - 2000** **55 sampling events**	**Lead (dissolved)** **µg/L**	**15** **(DWS)**	**<2 - 16**	**1 of 55**	**Attaining**	**SRP collected 55 samples in 1998 - 2002. Assessed as "inconclusive" and placed on the Planning List due to missing core parameters: total metals (arsenic, chromium, lead, manganese, and copper).**
			Selenium **(dissolved)** **µg/L**	**20** **(AgL)**	**<2 - 24**	**1 of 55**	**Attaining**	
LAKES MONITORING DATA								
Alvord Park Lake AZL15060106B-0050 A&Ww, FC, PBC	AGFD Urban Lakes Study and Routine Monitoring MGALV-A 101040	1998 - 11 field 1999 - 1 partial suite 2000 - 2 partial suites 2002 - 1 partial suite	Ammonia mg/L	varies by temperature and pH (A&Ww chronic)	0.50 -1.09	2 of 4		
	AGFD Urban Lakes Study and Routine Monitoring MGALV-B 101041	1998 - 11 field 1999 - 1 partial suite 2000 - 2 partial suites	Ammonia mg/L	varies by temperature and pH (A&Ww chronic)	0.50 - 1.18	2 of 4		
	AGFD Urban Lakes Study and Routine Monitoring MG-ALV-C 101042	1998 - 11 field 2000 - 2 partial suites	No exceedances					
	AGFD Urban Lakes Study and Routine Monitoring MG-ALV-ABC (composite from sites A, B, C) 101053	1998 - 4 partial suites	No exceedances					
	AGFD Routine Monitoring MG-ALV-I	1999 - 2 partial suites 2000 - 1 partial suite	Ammonia mg/L	varies by temperature and pH (A&Ww chronic)	<0.04 - 0.386	1 of 3		
	AGFD Routine Monitoring MG-ALV-ML	1999 - 1 partial suite 2001 - 1 partial suite	Ammonia mg/l	varies by temperature and pH (A&Ww chronic)	0.33	1 of 1		
	ADEQ Clean Lakes Program MGALV (Sites A, BR, SH)	2002 - 4 *Escherichia coli*	*Escherichia coli* CFU/100 ml	235 (FBC)	41 - >2419	2 of 4		

TABLE 14. MIDDLE GILA WATERSHED -- 2004 ASSESSMENT MONITORING DATA

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCES OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
	Summary Row **A&Ww Impaired** **FC Inconclusive** **PBC Inconclusive**	**1998 - 2002** **51 samples** **16 sampling events**	**Ammonia** **mg/L**	**varies by temperature and pH (A&Ww chronic)**	**<0.04 - 1.18**	**6 of 12 samples** **4 of 6 events**	**Impaired**	**AGFD collected 51 samples at 5 sites in 1998-2002. Assessed as "impaired" due to ammonia exceedances.** **ADEQ assessed the FBC designated use as "inconclusive" and placed it on the Planning List for the following reasons:** **1. One of the two *E. coli* exceedances was very close to the standard (result is 260, standard is 235), and** **2. Bacterial lab methods used are an estimation of bacteria density (most probable number) (see discussion in Chapter III).** **This reach is also on the Planning List due to missing core parameters: total mercury and turbidity.**
			Escherichia coli **CFU/100 ml**	**235 (FBC)**	**41 - >2419**	**2 of 4 events (in 2002)**	**Inconclusive (see comment)**	
Chaparral Lake AZL15060106B-0300 A&Ww, FC, PBC, AgI	AGFD Urban Lakes Study and Routine Monitoring MGCHA-A 101045	1998 - 11 partial suites 2002 - 1 partial suite	Dissolved oxygen mg/L	>6.0 (90% saturation) (A&Ww)	4.6 - 14.0 (62 - 184%)	3 of 12		
			pH (high) SU	6.5 - 9.0 (A&Ww, PBC, AgI)	7.9 - 9.4	2 of 12		
	AGFD Urban Lakes Study MGCHA-B 101046	1998 - 11 field	Dissolved oxygen mg/L	>6.0 (90% saturation) (A&Ww)	5.2 - 13.8 (70 - 185%)	3 of 11		
			pH (high) SU	6.5 - 9.0 (A&Ww, PBC, AgI)	8.0 - 9.4	2 of 11		
	AGFD Urban Lakes Study MGCHA-AB 101056 (composite of sites A and B)	1998 - 4 partial suites	No exceedances					
	AGFD Routine Monitoring MGCHA-ML	2001 - 1 partial suite	No exceedances					
	ADEQ Lakes Program MGCHA (Sites BR, SH, A)	2002 - 5 *Escherichia coli*	*Escherichia coli* CFU/100 ml	235 (FBC)	15 - 2419	5 of 5		
	Summary Row **A&Ww Impaired** **FC Attaining** **PBC Impaired** **AgI Inconclusive**	**1998 - 2002** **28 samples** **13 sampling events**	**Dissolved oxygen** **mg/L**	**>6.0** **(90% saturation)** **(A&Ww)**	**4.6 - 14.0** **(62 - 185%)**	**6 of 24**	**Impaired**	**AGFD collected 28 samples at 3 sites in 1998 - 2002. Assessed as "impaired" due to low dissolved oxygen and *Escherichia coli* exceedances.** **Placed on the Planning List due to missing core parameters: total boron and turbidity.**
			Escherichia coli **CFU/100 ml**	**235** **(FBC)**	**15 - 2419**	**5 of 5 events** **(in 2002)**	**Impaired**	
			pH (high) **SU**	**6.5 - 9.0** **(A&Ww, PBC, AgI)**	**7.9 - 9.4**	**4 of 24**	**Attaining**	
Cortez Park Lake AZL15060106B-0410 A&Ww, FC, PBC, AgI	AGFD Urban Lakes Study and Routine Monitoring MGCOR-A 101043	1998 - 11 field	Dissolved oxygen mg/L	>6.0 (90% saturation) (A&Ww)	4.0 - 12.8 (53 - 185%)	1 of 11		
			pH (high) SU	6.5 - 9.0 (A&Ww, PBC, AgI)	8.2 - 10.0	6 of 11		
	AGFD Urban Lakes Study and Routine Monitoring MGCOR-B 101044	1998 - 11 field	Dissolved oxygen mg/L	>6.0 (90% saturation) (A&Ww)	3.9 - 11.3 (51 - 153%)	1 of 11		
			pH (high) SU	6.5 - 9.0 (A&Ww, PBC, AgI)	8.2 - 9.6	2 of 11		

TABLE 14. MIDDLE GILA WATERSHED -- 2004 ASSESSMENT MONITORING DATA

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCES OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
	AGFD Urban Lakes Study MGCOR-AB (composite of sites A and B) 101055	1998 - 4 partial suites	No exceedances					
	AGFD Routine Monitoring MGCOR-Bridge	1999 - 1 partial suite	Dissolved oxygen mg/L	>6.0 (90% saturation) (A&Ww)	3.1 (43%)	1 of 1		
	AGFD Routine Monitoring MGCOR-Main Lagoon	1999 - 1 partial suite	Dissolved oxygen mg/L	>6.0 (90% saturation) (A&Ww)	2.6 (37%)	1 of 1		
	AGFD Routine Monitoring MGCOR-Small Lagoon	1999 - 1 partial suite	Dissolved oxygen mg/L	>6.0 (90% saturation) (A&Ww)	4.0 (57%)	1 of 1		
	Summary Row **A&Ww Impaired** **FC Inconclusive** **PBC Impaired** **AgI Impaired**	**1998 - 1999** **29 samples** **12 sampling events**	**Dissolved oxygen** **mg/L**	**> 6.0** **(90% saturation)** **(A&Ww)**	**2.6 - 12.8** **(37 - 173%)**	**5 of 25**	**Impaired**	**AGFD collected 12 samples at 5 sites in 1998-1999. Assessed as "impaired" due to low dissolved oxygen and high pH.** **Placed on the Planning List due to:** **1. Fish kill in 1999 related to an algal bloom.** **2. Missing core parameters: *Escherichia coli*, total boron, and total mercury.**
			pH (high) **SU**	**6.5 - 9.0** **(A&Ww, PBC, AgI)**	**7.7 - 10.0**	**8 of 25**	**Impaired**	
Fain Lake AZL15070102-0005 A&Ww, FC, FBC	ADEQ Lakes Program MGFAI-A 101400	2002 - 1 partial suite	Turbidity (former standard) NTU	25 (A&Ww)	25 - 33	1 of 1		
	Summary Row **A&Ww Inconclusive** **FC Inconclusive** **FBC Inconclusive**	**2002** **1 sampling event**	**Turbidity (former standard)** **NTU**	**25** **(A&Ww)**	**25 - 33**	**1 of 1**	**Inconclusive (see comment)**	**Insufficient monitoring data to assess.** **Placed on the Planning List due to exceedance of the former turbidity standard. Further investigation into the causes and sources of turbidity will be scheduled during the next monitoring cycle for this watershed.**
Lake Pleasant AZL15070102-1100 A&Ww, FC, FBC, DWS, AgI, AgL	ADEQ Lakes Program MGPLE-A 100067	2000 - 2 partial suites 2001 - 3 full suites 2002 - 3 partial suites	Ammonia mg/L	varies by temperature and pH (A&Ww chronic)	0.03 - 0.42	1 of 5		
			Selenium(total) µg/L	2.0 (A&Ww chronic)	<2 - 3	1 of 7		
	ADEQ Lakes Program MGPLE-B 100068	2000 - 2 partial suites 2001 - 3 full suites 2002 - 3 partial suites	pH SU	6.5 - 9.0 (A&Ww, FBC, DWS, AgI, AgL)	7.7 - 10.6	1 of 8		
			Selenium (total) µg/L	2.0 (A&Ww chronic)	<2.0 - 3.0	1 of 6		
	ADEQ Lakes Program MGPLE-MAR 101000	2000 - 1 field + 3 VOCs 2001 - 2 field + 3 VOCs	No exceedances					
	Univ. of Arizona Reservoir Project for ADEQ MGPLE-C	2002 - 2 partial suites	No exceedances					
	AGFD Routine Monitoring MGPLE 5 sites (Agua Fria arm, Castle Creek arm, dam site, mid-lake, boat ramp)	1998 - 1 partial suite 2000 - 2 partial suites	Dissolved oxygen mg/L	> 6.0 (90% saturation) (A&Ww)	4.6 - 8.9 (53 - 109%)	1 of 12 (at Agua Fria Arm site)		

TABLE 14. MIDDLE GILA WATERSHED -- 2004 ASSESSMENT MONITORING DATA

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCES OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
	Summary Row **A&Ww Inconclusive** **FC Attaining** **FBC Inconclusive** **DWS Attaining** **AgI Attaining** **AgL Attaining**	**1998 - 2002** **30 samples** **9 sampling events**	**Ammonia** **mg/L**	**varies by pH and temperature (A&Ww chronic)**	**0.03 - 0.42**	**1 of 25 samples** **1 of 9 events**	**Inconclusive**	**ADEQ, AGFD, and Univ. of Arizona collected 30 samples at 9 sites in 1998 - 2002. Assessed as "attaining some uses" and placed on the Planning List due to:** **1. Ammonia exceedances;** **2. Selenium exceedances; and** **3. Missing core parameter: *Escherichia coli*.**
			Dissolved oxygen **mg/L**	**> 6.0** **(90% saturation)** **(A&Ww)**	**4.6 - 13.6** **(53 - 168%)**	**1 of 38**	**Attaining**	
			pH **SU**	**6.5 - 9.0** **(A&Ww, FBC, DWS, AgL, AgI)**	**7.1 - 10.6**	**1 of 32**	**Attaining**	
			Selenium **µg/L**	**2.0** **(A&Ww chronic)**	**<2 - 3**	**2 of 17 samples** **1 of 7 events**	**Inconclusive**	
Lynx Lake AZL15070102-0860 A&Wc, FC, FBC, DWS, AgI, AgL	AGFD Routine Monitoring MGLYN-Dam Dam Site	1998 - 1 partial suite 2000 - 1 partial suite	Manganese (total) µg/L	980 (DWS)	627 - 1520	1 of 1		
	AGFD Routine Monitoring MGLYN-EBR East of boat ramp	2000 - 1 partial suite	Lead (total) µg/L	15 (DWS, FBC)	87	1 of 1		
			Manganese (total) µg/L	980 (DWS)	3440	1 of 1		
	AGFD Routine Monitoring MGLYN-LBR Left of boat ramp	2000 - 1 partial suite	No exceedances					
	AGFD Routine Monitoring MGLYN-ML Mid-lake	1998 - 2 partial suites	No exceedances					
	AGFD Routine Monitoring MGLYN-WBR West of boat ramp	2001 - 1 partial suite	Lead (total) µg/L	15 (DWS, FBC)	19	1 of 1		
	ADEQ Lakes Program MGLYN-A 100037	2002 - 1 partial suite	Manganese (total) µg/L	980 (DWS)	850 - 2650	1 of 1		
	ADEQ Lakes Program MGLYN-B 100038	2002 - 1 partial suite	No exceedances					
	ADEQ Lakes Program MGLYN-BR 101399	2002 - 1 bacteria	No exceedances					
	Summary Row **A&Wc Inconclusive** **FC Inconclusive** **FBC Inconclusive** **DWS Inconclusive** **AgI Inconclusive** **AgL Attaining**	**1998 - 2002** **10 samples** **7 sampling events**	**Lead (total)** **µg/L**	**15** **(DWS, FBC)**	**6 - 87**	**2 of 5**	**Inconclusive**	**ADEQ and AGFD collected 10 samples at 8 sites in 1998-2002. Assessed as "attaining some uses" and placed on the Planning List due to:** **1. Lead exceedances,** **2. Manganese exceedances, and** **3. Missing core parameters: turbidity, *Escherichia coli*, total boron, total mercury dissolved metals (copper and cadmium).**
			Manganese (total) **µg/L**	**980** **(DWS)**	**625 - 3440**	**3 of 7**	**Inconclusive**	
Papago Park Ponds AZL15060106B-1030 A&Ww, FC, PBC	AGFD Urban Lakes Study MGPAP-A 101047	1998 - 10 pH + DO	No exceedances					
	AGFD Urban Lakes Study MGPAP-B 101048	1998 - 10 pH + DO	No exceedances					
	AGFD Urban Lakes Study MGPAP-AB (composite of sites A and B) 101057	1998 - 3 partial suites	No exceedances					

TABLE 14. MIDDLE GILA WATERSHED -- 2004 ASSESSMENT MONITORING DATA

STREAM NAME SEGMENT WATERBODY ID DESIGNATED USES	AGENCY AND PROGRAM SITE DESCRIPTION SITE CODE ADEQ DATABASE ID	YEAR SAMPLED NUMBER AND TYPE OF SAMPLES	EXCEEDANCES OF STANDARDS BY SITE					
			PARAMETER UNITS	STANDARD (DESIGNATED USE)	RANGE OF RESULTS	FREQUENCY EXCEEDED STANDARD	DESIGNATED USE SUPPORT	COMMENTS
	Summary Row **A&Ww Inconclusive** **FC Attaining** **PBC Inconclusive**	**1998** **23 samples** **10 sampling events**	**No exceedances**					**AGFD collected 23 samples at 2 sites for ADEQ in 1998. Assessed as "attaining some uses." Placed on the Planning List due to missing core parameters: *Escherichia coli* and turbidity.**
Tempe Town Lake AZL15060106B-1588 A&Ww, FC, FBC	City of Tempe 4 sites (below dam, mid lake, above dam, south shore) MGTTL	1999 - 7 total metals 2000 - 12 total metals 2001 - 12 total metals 2002 - 11 total metals, 100 field*	Mercury (total) µg/L	0.6 (FC)	<0.5 - 0.8	4 of 42		*Total metals samples were taken at the downstream dam site only. Field parameters were collected at all 4 sites. Additional field samples were taken prior to 2002. See comment in summary row.
	ADEQ Lakes Program MGTTL-A 101316	2002 - 4 partial suites	No exceedances					
	ADEQ Lakes Program MGTTL-B 101315	2002 - 3 partial suites	No exceedances					
	Summary Row **A&Ww Attaining** **FC Attaining** **FBC Attaining**	**1999 - 2002** **149 samples** **56 sampling events**	**Mercury (total)** **µg/L**	**0.6** **(FC)**	**<0.5 - 0.8**	**4 of 42**	**Attaining**	**ADEQ and the City of Tempe collected 149 samples from 6 sites. High pH levels occurred until the city began algaecide treatment in 2002. Since April 2002, pH levels have met standards; therefore, pH and dissolved oxygen samples prior to treatment date were not included in this assessment. Assessed as "attaining all uses."** **Note that ADEQ and the City of Tempe conducted "clean" mercury sampling in 2003 and found no exceedances of dissolved or total mercury water quality standards.**

TABLE 14. MIDDLE GILA WATERSHED -- ASSESSMENT, PLANNING LIST, AND 303(d) STATUS				
SURFACE WATER DESCRIPTION	**2004 ASSESSMENT 5-CATEGORIES LAKE TROPHIC STATUS**	**2004 PLANNING LIST**	**STATUS OF 2002 303(d) LIST RECOMMENDATIONS FOR 2004 LIST**	**OTHER INFORMATION**
MIDDLE GILA WATERSHED -- STREAM ASSESSMENT				
Agua Fria River Sycamore Creek - Big Bug Creek 9 miles AZ15070102-023	A&Ww Attaining FC Attaining FBC Attaining DWS Attaining AgI Attaining AgL Attaining Category 1 – Attaining All Uses			
Agua Fria River Little Squaw Creek - Cottonwood Creek 6 miles AZ15070102-017	A&Ww Attaining FC Attaining FBC Attaining DWS Attaining AgI Attaining AgL Attaining Category 1 – Attaining All Uses			
Antelope Creek headwaters - Martinez Creek 16 miles AZ15070103-010	A&Ww Inconclusive FC Inconclusive FBC Inconclusive AgL Inconclusive Category 3 – Inconclusive	On the Planning List due to insufficient monitoring data to assess (only 1 sample).		
Arizona Canal Granite Reef Dam - Cholla WTP 33 miles AZ15060106B-099A	DWS Inconclusive AgI Inconclusive AgL Inconclusive Category 3 -- Inconclusive	On the Planning List due to missing core parameters: total fluoride, total metals (arsenic, chromium, copper, lead, manganese, and mercury).		
Arizona Canal Cholla WTP - HUC boundary 15070102 2 miles AZ15060106B-099B	AgI Inconclusive AgL Inconclusive Category 3 -- Inconclusive	On the Planning List due to missing core parameters: pH and total metals (copper, lead, and manganese).		
Arnett Creek headwaters - Queen Creek 11 miles AZ15050100-1818	A&Ww Attaining FC Attaining FBC Attaining Category 1 – Attaining All Uses			
Blue John Creek headwaters - unnamed tributary to Lynx Creek 1 mile AZ15070102-471	A&Wc Inconclusive FC Inconclusive FBC Inconclusive Category 3 – Inconclusive	On the Planning List due to: 1. Insufficient monitoring data to assess (1 sample). 2. Acute and chronic cadmium exceedance (1 of 1 sampling event). 3. Acute and chronic copper exceedance (1 of 1 sampling event). 4. Acute and chronic zinc exceedance (1 of 1 sampling event).		
Buckeye Canal Gila River - South Extension Canal 4 miles AZ15070101-209	AgI Inconclusive AgL Inconclusive Category 3 – Inconclusive	On the Planning List due to: 1. Missing core parameters: total boron and total metals (copper, lead, and manganese). 2. Added in 2002 due to DDE exceedance (1 of 1 sample). Laboratory reporting limits for current DDE samples and older samples were too high to use results for assessment.		
Cash Mine Creek headwaters - Hassayampa River 1 mile AZ15070103-349	A&Wc Not attaining FC Inconclusive FBC Not attaining Category 4A – Not attaining	On the Planning List due to: 1. Missing core parameters: all except dissolved metals. 2. TMDL follow-up monitoring. (Acute and chronic copper exceedance in 1 of 1 sampling event, acute and chronic zinc exceedance in 1 of 1 sampling event.)		Cadmium, copper, zinc and pH TMDLs for the Hassayampa River included loadings for Cash Mine Creek (a tributary). These TMDLs were approved by EPA in 2002. Add to the Planning List for TMDL follow-up monitoring.

TABLE 14. MIDDLE GILA WATERSHED -- ASSESSMENT, PLANNING LIST, AND 303(d) STATUS				
SURFACE WATER DESCRIPTION	**2004 ASSESSMENT 5-CATEGORIES LAKE TROPHIC STATUS**	**2004 PLANNING LIST**	**STATUS OF 2002 303(d) LIST RECOMMENDATIONS FOR 2004 LIST**	**OTHER INFORMATION**
Cash Mine Creek, unnamed tributary of headwaters - Cash Mine Creek 1 mile AZ15070103-415	A&Wc Not attaining FC Inconclusive FBC Inconclusive Category 4A – Not attaining	On the Planning List due to: 1. Missing core parameters: all except dissolved metals. 2. TMDL follow-up monitoring (Acute and chronic cadmium exceedance in 1 of 1 sampling event, acute and chronic copper exceedance in 1 of 1 sampling event, lead exceedance in 1 of 1 sample, acute and chronic zinc exceedance in 1 of 1 sampling event.)		Cadmium, copper, zinc and pH TMDLs for the Hassayampa River included loadings for Cash Mine Creek, including unnamed tributary. These TMDLs were approved by EPA in 2002. Add to the Planning List for TMDL follow-up monitoring.
Cave Creek headwaters - Cave Creek Dam 33 miles AZ15060106B-026A	A&Ww Attaining FC Attaining FBC Attaining AgL Attaining Category 1 – Attaining All Uses			
Consolidated Canal 15060106B - above WTP intake 9 miles AZ15050100-074A	DWS Inconclusive AgI Inconclusive AgL Inconclusive Category 3 -- Inconclusive	On the Planning List due to missing core parameters: total metals (arsenic, chromium, lead, manganese, and copper).		
Dripping Spring Wash headwaters - Gila River 20 miles AZ15050100-011	A&Ww Inconclusive FC Inconclusive FBC Inconclusive Category 3 -- Inconclusive	No current monitoring data. Added to the Planning List in 2002 due to insufficient monitoring data.		
Eastern Canal WTP below Warner Road - terminus 9 miles AZ15050100-207B	AgI Inconclusive AgL Inconclusive Category 3 -- Inconclusive	On the Planning List due to missing core parameters: total metals (arsenic, chromium, lead, manganese, and copper).		
French Gulch headwaters - Hassayampa River 10 miles AZ15070103-239	A&Ww Impaired FC Attaining FBC Inconclusive Category 5 – Impaired (New designated uses since last assessment based on revisions of the tributary rule in 2002. AgI and AgL designated uses no longer apply.)	On the Planning List due to missing core parameters: dissolved oxygen, *Escherichia coli*, and turbidity/SSC. Remove beryllium from the Planning List. Standard modified in 2002. No exceedance of the new beryllium standard.	Add cadmium to the 303(d) List for chronic cadmium exceedances (3 of 50 sampling events). On the 303(d) List (since 1994) for copper and zinc. Acute copper exceedances in 27 of 50 sampling events, chronic copper exceedances in 38 of 50 sampling events. Acute and chronic zinc exceedances in 29 of 50 sampling events. TMDL investigation and sampling are ongoing. Delist manganese. Manganese standards were revised in 2002. No exceedances of the new manganese standard.	
Galena Gulch headwaters - Agua Fria River 6 miles AZ15070102-745	A&We Inconclusive PBC Inconclusive AgL Inconclusive Category 3 – Inconclusive	No current monitoring data. Added to the Planning List in 2002 due to cyanide exceedances in older data.		
Gila River Dripping Spring Wash - San Pedro River 11 miles AZ15050100-009	A&Ww Inconclusive FC Inconclusive FBC Inconclusive AgI Inconclusive AgL Inconclusive Category 3 -- Inconclusive	No current monitoring data. Added to the Planning List in 2002 due to missing core parameters.		
Gila River San Pedro River - Mineral Creek 20 miles AZ15050100-008	A&Ww Inconclusive FC Attaining FBC Attaining AgI Attaining AgL Attaining Category 2 – Attaining Some Uses	On the Planning List due to former turbidity standard exceedances (2 of 6 samples). Monitoring will be scheduled to determine whether suspended sediment or bottom deposit violations are occurring. Remove mercury from the Planning List. Listed in 2002 due to inadequate detection limits to assess mercury standards. New detection limits were lower and indicated no mercury exceedances.		

TABLE 14. MIDDLE GILA WATERSHED -- ASSESSMENT, PLANNING LIST, AND 303(d) STATUS				
SURFACE WATER DESCRIPTION	**2004 ASSESSMENT 5-CATEGORIES LAKE TROPHIC STATUS**	**2004 PLANNING LIST**	**STATUS OF 2002 303(d) LIST RECOMMENDATIONS FOR 2004 LIST**	**OTHER INFORMATION**
Gila River Mineral Creek - Donnelly Wash 16 miles AZ15050100-007	A&Ww Inconclusive FC Inconclusive FBC Inconclusive AgI Inconclusive AgL Inconclsuive Category 3 – Inconclusive	No current monitoring data. Added to the Planning List in 2002 due to lack of copper and turbidity data following a spill clean-up.		
Gila River Ashurst-Hayden Dam - Florence WWTP 13 miles AZ15050100-003B	A&We Inconclusive PBC Inconclusive AgL Inconclusive Category 3 -- Inconclusive	No current monitoring data. Added to the Planning List in 2002 due to copper exceedance (1 of 2 samples) and missing core parameters.		
Gila River Salt River - Agua Fria River 4 miles AZ15070101-015	A&Wedw Attaining FC Impaired PBC Attaining AgI Attaining AgL Attaining Category 5 – Impaired		EPA placed this reach on the 2002 303(d) List because DDT metabolites, toxaphene, and chlordane in fish tissue led to a fish consumption advisory. EPA's listing was based on a violation of narrative water quality standards. Arizona's Impaired Water Identification Rule requires adoption of narrative implementation procedures before the state may use narrative information in a listing dcision, but once listed, the reach cannot be delisted until a TMDL is complete or sufficient data are collected to indicate that these pesticides are no longer a concern in fish tissue (fish consumption advisory removed). ADEQ is currently developing a workplan to complete a TMDL or other remedial strategy to deal with these legacy pollutants.	These pesticides do not stay in an aqueous state and bioaccumulate rapidly up the food chain. Additionally, most lab reporting limits are not low enough to use results for assessment; therefore, lack of exceedances in the water column does not provide sufficient information about pesticide problems in the stream.
Gila River Agua Fria River - Waterman Wash 12 miles AZ15070101-014	A&Wedw Inconclusive FC Impaired PBC Inconclusive AgI Inconclusive AgL Inconclusive Category 5 – Impaired	On the Planning List due to insufficient monitoring data to assess (only 1 sample). Added in 2002 due to missing core parameters.	EPA placed this reach on the 2002 303(d) List because DDT metabolites, toxaphene, and chlordane in fish tissue led to a fish consumption advisory. EPA's listing was based on a violation of narrative water quality standards. Arizona's Impaired Water Identification Rule requires adoption of narrative implementation procedures before the state may use narrative information in a listing decision, but once listed, this reach cannot be delisted until a TMDL is complete or sufficient data are collected to indicate that these pesticides are no longer a concern in fish tissue (fish consumption advisory removed). ADEQ is currently developing a workplan to complete a TMDL or other remedial strategy to deal with these legacy pollutants.	These pesticides do not stay in an aqueous state and bioaccumulate rapidly up the food chain. Additionally, most lab reporting limits are not low enough to use results for assessment; therefore, lack of exceedances in the water column does not provide sufficient information about pesticide problems in the stream.
Gila River Waterman Wash - Hassayampa River 14 miles AZ15070101-010	A&Wedw Inconclusive FC Impaired PBC Inconclusive AgI Inconclusive AgL Inconclusive Category 5 – Impaired	On the Planning List due to no current monitoring data.	EPA placed this reach on the 2002 303(d) List because DDT metabolites, toxaphene, and chlordane in fish tissue led to a fish consumption advisory. EPA's listing was based on a violation of narrative water quality standards. Arizona's Impaired Water Identification Rule requires adoption of narrative implementation procedures before the state may use narrative information in a listing decision, but once listed, this reach cannot be delisted until a TMDL is complete or sufficient data are collected to indicate that these pesticides are no longer a concern in fish tissue (fish consumption advisory removed). ADEQ is currently developing a workplan to complete a TMDL or other remedial strategy to deal with these legacy pollutants.	These pesticides do not stay in an aqueous state and bioaccumulate rapidly up the food chain. Additionally, most lab reporting limits are not low enough to use results for assessment; therefore, lack of exceedances in the water column does not provide sufficient information about pesticide problems in the stream.

TABLE 14. MIDDLE GILA WATERSHED -- ASSESSMENT, PLANNING LIST, AND 303(d) STATUS				
SURFACE WATER DESCRIPTION	**2004 ASSESSMENT 5-CATEGORIES LAKE TROPHIC STATUS**	**2004 PLANNING LIST**	**STATUS OF 2002 303(d) LIST RECOMMENDATIONS FOR 2004 LIST**	**OTHER INFORMATION**
Gila River Hassayampa River - Centennial Wash 7 miles AZ15070101-009	A&Wedw Inconclusive FC Impaired PBC Inconclusive AgI Inconclusive AgL Inconclusive Category 5 – Impaired	On the Planning List due to no current monitoring data.	EPA placed this reach on the 2002 303(d) List because DDT metabolites, toxaphene, and chlordane in fish tissue led to a fish consumption advisory. EPA's listing was based on a violation of narrative water quality standards. Arizona's Impaired Water Identification Rule requires adoption of narrative implementation procedures before the state may use narrative information in a listing decision, but once listed, this reach cannot be delisted until a TMDL is complete or sufficient data are collected to indicate that these pesticides are no longer a concern in fish tissue (fish consumption advisory removed). ADEQ is currently developing a workplan to complete a TMDL or other remedial strategy to deal with these legacy pollutants.	These pesticides do not stay in an aqueous state and bioaccumulate rapidly up the food chain. Additionally, most lab reporting limits are not low enough to use results for assessment; therefore, lack of exceedances in the water column does not provide sufficient information about pesticide problems in the stream.
Gila River Centennial Wash - Gillespie Dam 5 miles AZ15070101-008	A&Wedw Impaired FC Impaired FBC Attaining AgI Impaired AgL Attaining Category 5 – Impaired	On the Planning List due to former turbidity standard exceedances (5 of 23 samples). Monitoring will be scheduled to determine whether suspended sediment or bottom deposit violations are occurring. Remove beryllium from the Planning List. Standard modified in 2002. No exceedances of the new standard.	EPA placed this reach on the 2002 303(d) List because DDT metabolites, toxaphene, and chlordane in fish tissue led to a fish consumption advisory. EPA's listing was based on a violation of narrative water quality standards. Arizona's Impaired Water Identification Rule requires adoption of narrative implementation procedures before the state may use narrative information in a listing decision, but once listed, this reach cannot be delisted until a TMDL is complete or sufficient data are collected to indicate that these pesticides are no longer a concern in fish tissue (fish consumption advisory removed). ADEQ is currently developing a workplan to complete a TMDL or other remedial strategy to deal with these legacy pollutants. On the 303(d) List (since 1992) due to boron exceedances (22 of 23 samples). Add selenium to the 303(d) List due to chronic exceedances (18 of 23 sampling events). **Delist turbidity. Standard repealed in 2002. Add to the Planning List. The Aquatic and Wildlife use is assessed as "inconclusive" due to exceedances of the former turbidity standard.**	These pesticides do not stay in an aqueous state and bioaccumulate rapidly up the food chain. Additionally, most lab reporting limits are not low enough to use results for assessment; therefore, lack of exceedances in the water column does not provide sufficient information about pesticide problems in the stream. EPA may use exceedances of the former turbidity standard as an indicator of narrative standards violations and place this reach on the 2004 303(d) List due to turbidity.
Gila River Gillespie Dam - Rainbow Wash 5 miles AZ15070101-007	A&Ww Inconclusive FC Impaired FBC Inconclusive AgI Inconclusive AgL Inconclusive Category 5 – Impaired	On the Planning List due to no current monitoring data.	EPA placed this reach on the 2002 303(d) List because DDT metabolites, toxaphene, and chlordane in fish tissue led to a fish consumption advisory. EPA's listing was based on a violation of narrative water quality standards. Arizona's Impaired Water Identification Rule requires adoption of narrative implementation procedures before the state may use narrative information in a listing decision, but once listed, this reach cannot be delisted until a TMDL is complete or sufficient data are collected to indicate that these pesticides are no longer a concern in fish tissue (fish consumption advisory removed). ADEQ is currently developing a workplan to complete a TMDL or other remedial strategy to deal with these legacy pollutants.	These pesticides do not stay in an aqueous state and bioaccumulate rapidly up the food chain. Additionally, most lab reporting limits are not low enough to use results for assessment; therefore, lack of exceedances in the water column does not provide sufficient information about pesticide problems in the stream.

TABLE 14. MIDDLE GILA WATERSHED -- ASSESSMENT, PLANNING LIST, AND 303(d) STATUS				
SURFACE WATER DESCRIPTION	**2004 ASSESSMENT 5-CATEGORIES LAKE TROPHIC STATUS**	**2004 PLANNING LIST**	**STATUS OF 2002 303(d) LIST RECOMMENDATIONS FOR 2004 LIST**	**OTHER INFORMATION**
Gila River Rainbow Wash - Sand Tank 17 miles AZ15070101-005	A&Ww Inconclusive FC Impaired FBC Inconclusive AgI Inconclusive AgL Inconclusive Category 5 – Impaired	On the Planning List due to no current monitoring data.	EPA placed this reach on the 2002 303(d) List because DDT metabolites, toxaphene, and chlordane in fish tissue led to a fish consumption advisory. EPA's listing was based on a violation of narrative water quality standards. Arizona's Impaired Water Identification Rule requires adoption of narrative implementation procedures before the state may use narrative information in a listing decision, but once listed, this reach cannot be delisted until a TMDL is complete or sufficient data are collected to indicate that these pesticides are no longer a concern in fish tissue (fish consumption advisory removed). ADEQ is currently developing a workplan to complete a TMDL or other remedial strategy to deal with these legacy pollutants.	These pesticides do not stay in an aqueous state and bioaccumulate rapidly up the food chain. Additionally, most lab reporting limits are not low enough to use results for assessment; therefore, lack of exceedances in the water column does not provide sufficient information about pesticide problems in the stream.
Gila River Sand Tank - Painted Rocks Reservoir 19 miles AZ15070101-001	A&Ww Inconclusive FC Impaired FBC Inconclusive AgI Inconclusive AgL Inconclusive Category 5 – Impaired	On the Planning List due to no current monitoring data.	EPA placed this reach on the 2002 303(d) List because DDT metabolites, toxaphene, and chlordane in fish tissue led to a fish consumption advisory. EPA's listing was based on a violation of narrative water quality standards. Arizona's Impaired Water Identification Rule requires adoption of narrative implementation procedures before the state may use narrative information in a listing decision, but once listed, this reach cannot be delisted until a TMDL is complete or sufficient data are collected to indicate that these pesticides are no longer a concern in fish tissue (fish consumption advisory removed). ADEQ is currently developing a workplan to complete a TMDL or other remedial strategy to deal with these legacy pollutants.	These pesticides do not stay in an aqueous state and bioaccumulate rapidly up the food chain. Additionally, most lab reporting limits are not low enough to use results for assessment; therefore, lack of exceedances in the water column does not provide sufficient information about pesticide problems in the stream.
Grand Canal HUC boundary 15070101 - New River 5 miles AZ15070102-250	AgI Inconclusive AgL Inconclusive Category 3 -- Inconclusive	On the Planning List due to missing core parameters: field pH and total metals (copper, lead, and manganese).		
Hassayampa River headwaters - Copper Creek 11 miles AZ15070103-007A	A&Wc Not attaining FC Not attaining FBC Not attaining AgI Not attaining AgL Not attaining Category 4A – Not attaining	On the Planning List due to: 1. TMDL follow-up monitoring for cadmium, copper, pH, and zinc. (Acute cadmium exceedances in 8 of 10 sampling events, chronic cadmium exceedances in 10 of 10 sampling events, and total copper exceedances in 1 of 5 samples. Acute and chronic copper exceedances in 9 of 10 sampling events and total copper exceedances in 9 of 48 samples. Low pH in16 of 52 samples. Acute and chronic zinc exceedances in 10 of 10 sampling events.) 2. Missing core parameters: total boron, *Escherichia coli*, and total metals (mercury, manganese, copper, and lead).	Delist zinc. A zinc TMDL was approved by EPA in 2002 (see comment *). Placed on the Planning List for TMDL follow-up monitoring.	*TMDLs for cadmium, copper, pH, and zinc were approved by EPA in 2002. Note cadmium and copper were delisted in 2002 due to insufficient exceedances to meet the Impaired Waters Identification Rule; however, the draft TMDL had already been completed and submitted to EPA for approval. Placed on the Planning List for TMDL follow-up monitoring for all parameters.
Hassayampa River Copper Creek - Blind Indian Creek 20 miles AZ15070103-007B	A&Ww Inconclusive FC Attaining FBC Inconclusive AgI Attaining AgL Attaining Category 2 – Attaining Some Uses	On the Planning List due to: 1. Chronic cadmium exceedance (1 of 16 sampling events). 2. *Escherichia coli* exceedance (1 of 12 sampling events, occurred in 2001). Remove beryllium from the Planning List. Standard modified in 2002. No exceedances of the new standard.		
Hassayampa River Cottonwood Creek - Martinez Wash 32 miles AZ15070103-004	A&Ww Attaining FC Attaining FBC Attaining AgI Attaining AgL Attaining Category 1 – Attaining All Uses	Remove arsenic, beryllium, copper, *Escherichia coli*, lead, and turbidity from the Planning List. Current data indicate that all uses are "attaining" for these parameters.		

TABLE 14. MIDDLE GILA WATERSHED -- ASSESSMENT, PLANNING LIST, AND 303(d) STATUS				
SURFACE WATER DESCRIPTION	**2004 ASSESSMENT 5-CATEGORIES LAKE TROPHIC STATUS**	**2004 PLANNING LIST**	**STATUS OF 2002 303(d) LIST RECOMMENDATIONS FOR 2004 LIST**	**OTHER INFORMATION**
Hassayampa River Sols Wash - 8 miles below Wickenburg 9 miles AZ15070103-002A	A&Ww Attaining FC Attaining FBC Inconclusive AgI Attaining AgL Attaining Category 2 – Attaining Some Uses	On the Planning List due to *Escherichia coli* exceedance (1 of 3 sampling events, occurred in 2002).		
Hassayampa River Buckeye Canal - Gila River 2 miles AZ15070103-001B	A&Ww Inconclusive FC Impaired FBC Attaining AgL Inconclusive Category 5 – Impaired	On the Planning List due to former turbidity standard exceedance (1 of 4 samples). Monitoring will be scheduled to determine whether suspended sediment or bottom deposit violations are occurring.	EPA placed this reach on the 2002 303(d) List because DDT metabolites, toxaphene, and chlordane in fish tissue led to a fish consumption advisory. EPA's listing was based on a violation of narrative water quality standards. Arizona's Impaired Water Identification Rule requires adoption of narrative implementation procedures before the state may use narrative information in a listing decision, but once listed, this reach cannot be delisted until a TMDL is complete or sufficient data are collected to indicate that these pesticides are no longer a concern in fish tissue (fish consumption advisory removed). ADEQ is currently collecting fish tissue data in support of completing a TMDL. DDE (DDT metabolite) exceeded standards in 2 of 4 water samples.	These pesticides do not stay in an aqueous state and bioaccumulate rapidly up the food chain. Additionally, most lab reporting limits are not low enough to use results for assessment; therefore, lack of exceedances in the water column does not provide sufficient information about pesticide problems in the stream.
Hassayampa River, unnamed tributary of headwaters - Hassayampa River 1 mile AZ15070103-417	A&Wc Inconclusive FC Inconclusive FBC Inconclusive Category 3 – Inconclusive	On the Planning List due to: 1. Insufficient monitoring data to assess (1 sample). 2. Acute and chronic copper exceedance (1 of 1 sampling event).		
Indian Bend Wash headwaters - Salt River 5 miles AZ15060106B-179	A&We Inconclusive PBC Inconclusive Category 3 – Inconclusive	On the Planning List due to: 1. Lead exceedance (1 of 3 samples). 2. Missing core parameters: dissolved metals (cadmium, copper, and zinc).		
Little Ash Creek headwaters - Ash Creek 18 miles AZ15070102-039	A&Ww Inconclusive FC Inconclusive FBC Inconclusive AgL Inconclusive Category 3 – Inconclusive	On the Planning List due to insufficient monitoring data to assess (2 samples).		
Lynx Creek headwaters - 34E34'29"/112E21'05 13 miles AZ15070102-033A (Reach was split into coldwater and warmwater segments since last assessment. No current data in 033B. Previous data in 033A.)	A&Wc Inconclusive FC Inconclusive FBC Inconclusive AgL Inconclusive Category 3 -- Inconclusive	No current monitoring data. Added to the Planning List in 2002 due to cadmium and copper exceedance (1 of 1 sample).		
Lynx Creek, unnamed tributary of headwaters - Lynx Creek 1 mile AZ15070102-124	A&Wc Inconclusive FC Inconclusive FBC Inconclusive Category 3 – Inconclusive	Add to the Planning List due to: 1. Insufficient monitoring data to assess (1 sampling event). 2. Acute and chronic cadmium exceedance (1 of 1 sampling event). 3. Acute and chronic copper exceedance (1 of 1 sampling event). 4. Acute and chronic zinc exceedance (1 of 1 sampling event).		
Martinez Canyon headwaters - Box Canyon 10 miles AZ15050100-080	A&Ww Inconclusive FC Inconclusive FBC Inconclusive AgL Inconclusive Category 3 — Inconclusive	Add to the Planning List due to insufficient monitoring data to assess (1 sampling event).		

TABLE 14. MIDDLE GILA WATERSHED -- ASSESSMENT, PLANNING LIST, AND 303(d) STATUS				
SURFACE WATER DESCRIPTION	**2004 ASSESSMENT 5-CATEGORIES LAKE TROPHIC STATUS**	**2004 PLANNING LIST**	**STATUS OF 2002 303(d) LIST RECOMMENDATIONS FOR 2004 LIST**	**OTHER INFORMATION**
Mineral Creek headwaters - Devils Canyon 9 miles AZ15050100-012A	A&Ww Inconclusive FC Inconclusive FBC Inconclusive AgL Inconclusive Category 3 – Inconclusive	No current monitoring data. Added to the Planning List in 2002 due to insufficient monitoring data.		
Mineral Creek Devils Canyon - Gila River 10 miles AZ15050100-012B	A&Ww Impaired FC Inconclusive FBC Inconclusive AgL Attaining Category 5 – Impaired	On the Planning List due to: 1. Former turbidity standard exceedances (7 of 41 samples above treatment). Monitoring will be scheduled to determine whether suspended sediment or bottom deposit violations are occurring. 2. Missing core parameters: *Escherichia coli* and total mercury.	Add selenium to the 303(d) List due to chronic selenium exceedances (19 of 41 sampling events). On the 303(d) list for copper since 1992. (Acute copper exceedances in1 of 41 sampling events; chronic copper exceeded in 2 of 41 sampling events, both in 2001.) Delist beryllium. Standards revised in 2002. No exceedances of the new standard. Delist pH and zinc. No exceedances since January, 2001, following completion of water diversion.	
New River headwaters - Interstate 17 25 miles AZ15070102-006A	A&Ww Inconclusive FC Inconclusive FBC Inconclusive AgI Inconclusive AgL Inconclusive Category 3 – Inconclusive	On the Planning List insufficient monitoring data to assess (1 sampling event).		
Queen Creek headwaters - Superior Mine WWTP 9 miles AZ15050100-014A	A&We Impaired PBC Attaining AgL Inconclusive Category 5 – Impaired	On the Planning List due to missing core parameters: dissolved cadmium and total lead.	On the 303(d) List (since 2002) for copper. Although current copper data are inconclusive (1 of 8 sampling events exceeded), the reach cannot be delisted until a TMDL is complete or copper data indicate designated uses are being attained.	
Queen Creek Superior Mine WWTP - Potts Canyon 6 miles AZ15050100-014B	A&Wedw Impaired PBC Inconclusive Category 5 – Impaired	On the Planning List due to: 1. Chronic selenium exceedance (1 of 1 sampling event). 2. Missing core parameters: dissolved cadmium, *Escherichia coli*, and total lead.	Add copper to the 303(d) List due to acute **and chronic copper** exceedances (2 of 9 sampling events, occurred in 2000 and 2002).	
Salt River 2 km below Granite Reef Dam - Interstate 10 bridge 19 miles AZ15060106B-001B	A&We Inconclusive PBC Inconclusive Category 3 – Inconclusive	On the Planning List due to insufficient monitoring data to assess (1 sampling event).		
Salt River 23rd Ave WWTP - Gila River 14 miles AZ15060106B-001D	A&Wedw Attaining FC Impaired PBC Attaining AgI Attaining AgL Attaining Category 5 – Impaired		EPA placed this reach on the 2002 303(d) List because DDT metabolites, toxaphene, and chlordane in fish tissue led to a fish consumption advisory. EPA's listing was based on a violation of narrative water quality standards. Arizona's Impaired Waters Identification Rule requires adoption of narrative implementation procedures before the state may use narrative information in a listing decision, but once listed, this reach cannot be delisted until a TMDL is complete or sufficient data are collected to indicate that these pesticides are no longer a concern in fish tissue (fish consumption advisory removed). ADEQ is currently developing a workplan to complete a TMDL or other remedial strategy to deal with these legacy pollutants.	These pesticides do not stay in an aqueous state and bioaccumulate rapidly up the food chain. Additionally, most lab reporting limits are not low enough to use results for assessment; therefore, lack of exceedances in the water column does not provide sufficient information about pesticide problems in the stream.
South Canal Granite Reef Dam - Consolidated Canal 10 miles AZ15060106B-180	DWS Inconclusive AgI Inconclusive AgL Inconclusive Category 3 -- Inconclusive	On the Planning List due to missing core parameters: total metals (arsenic, chromium, lead, manganese, and copper).		

TABLE 14. MIDDLE GILA WATERSHED -- ASSESSMENT, PLANNING LIST, AND 303(d) STATUS				
SURFACE WATER DESCRIPTION	**2004 ASSESSMENT 5-CATEGORIES LAKE TROPHIC STATUS**	**2004 PLANNING LIST**	**STATUS OF 2002 303(d) LIST RECOMMENDATIONS FOR 2004 LIST**	**OTHER INFORMATION**
Sycamore Creek Tank Canyon - Agua Fria River 18 miles AZ15070102-024B (Reach was split into coldwater and warmwater segments since the last assessment. No current data in 024A.)	A&Ww Attaining FC Attaining FBC Attaining AgL Attaining Category 1 – Attaining All Uses			
Tempe Canal HUC boundary 15050100 - Western Canal 1 mile AZ15050100-115	DWS Inconclusive AgI Inconclusive AgL Inconclusive Category 3 -- Inconclusive	On the Planning List due to missing core parameters: total metals (arsenic, chromium, lead, manganese, and copper).		
Turkey Creek headwaters - unnamed tributary at 34E19'28"/112E21'28" 9 miles AZ15070102-036A (Reach was split into coldwater and warmwater segments since last assessment.)	A&Wc Inconclusive FC Inconclusive FBC Inconclusive AgI Inconclusive AgL Inconclusive Category 3 -- Inconclusive	On the Planning List due to missing core parameters: dissolved oxygen, *Escherichia coli*, total boron, total metals (manganese and mercury), and turbidity/SSC.	Delist cadmium, copper, and zinc. All past and current exceedances on Turkey Creek occurred in the lower segment (036B). (Reach was split into coldwater and warmwater segments in 2002, no basis for this segment to be listed).	
Turkey Creek unnamed tributary at 34E19'28"/112E21'28" - Poland Creek 21 miles AZ15070102-036B (Reach was split into coldwater and warmwater segments since last assessment.)	A&Ww Impaired FC Attaining FBC Inconclusive AgI Inconclusive AgL Attaining Category 5 – Impaired	On the Planning List due to: 1. Acute and chronic arsenic exceedance (1 of 6 sampling events, occurred in 2001) and total arsenic exceedances (3 of 16 samples). 2. Total lead exceedances (7 of 18 samples). 2. Missing core parameters: *Escherichia coli*, total boron, total manganese, and turbidity/SSC.	**Add lead to the 303(d) List for chronic lead exceedances (2 of 7 sampling events).** On the 303(d) List for cadmium, copper, and zinc since 1992. Acute and chronic cadmium exceedances in 2 of 4 sampling events (occurred in 2001). Acute and chronic copper exceedances in 2 of 7 sampling events (occurred in 2001). Acute and chronic zinc exceedances in 3 of 7 sampling events (occurred in 2001). TMDL investigation is in progress.	**ADEQ anticipates that EPA would also place this water on the 2004 303(d) List for total lead exceedances as 7 of 18 samples exceeded standards. For the 2002 303(d) List, EPA determined that 5 or more exceedances with less than 20 samples were sufficient to list a water as "impaired," although Arizona's Impaired Waters Identification Rule would require a minimum of 20 samples.**
Western Canal Tempe Canal - HUC boundary 15050100 15 miles AZ15060106B-262	AgI Inconclusive AgL Inconclusive Category 3 -- Inconclusive	On the Planning List due to missing core parameters: total metals (manganese, copper, and lead).		
Western Canal 10 miles HUC boundary 15050100 - terminus AZ15050100-990	DWS Inconclusive AgI Inconclusive AgL Inconclusive Category 3 -- Inconclusive	On the Planning List due to missing core parameters: total metals (arsenic, chromium, lead, manganese, and copper).		
MIDDLE GILA WATERSHED -- LAKE ASSESSMENTS				
Alvord Park Lake 27 acres AZL15060106B-0050	A&Ww Impaired FC Inconclusive PBC Inconclusive Category 5 – Impaired Trophic status – Hypereutrophic	On the Planning List due to: 1. *Escherichia coli* exceedances (2 of 4 sampling events, occurred in 2002). 2. Missing core parameters: total mercury and turbidity. Remove beryllium from the Planning List. No exceedances under the new standard.	Add ammonia to the 303(d) List for chronic ammonia exceedances (4 of 6 sampling events).	ADEQ assessed the FBC designated use as "inconclusive" for the following reasons: 1. One of the two *E. coli* exceedances was very close to the standard (result is 260, standard is 235). 2. Bacterial lab methods provide an estimate of bacteria density (most probable number) (see discussion in Chapter III).
Chaparral Lake 13 acres AZL15060106B-0300	A&Ww Impaired FC Attaining PBC Impaired AgI Inconclusive Category 5 – Impaired Trophic status – Hypereutrophic	On the Planning List due to missing core parameters: total boron, *Escherichia coli*, and turbidity. Remove pH from the Planning List. Current data (4 of 24 samples exceed) indicate support of designated uses.	Add dissolved oxygen to the 303(d) List for low dissolved oxygen (6 of 24 samples). Add *Escherichia coli* to the 303(d) List for exceedances in 5 of 5 sampling events (in 2002).	

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SURFACE WATER DESCRIPTION	**2004 ASSESSMENT 5-CATEGORIES LAKE TROPHIC STATUS**	**2004 PLANNING LIST**	**STATUS OF 2002 303(d) LIST RECOMMENDATIONS FOR 2004 LIST**	**OTHER INFORMATION**
Cortez Park Lake 2 acres AZL15060106B-0410	A&Ww Impaired FC Inconclusive PBC Impaired AgI Impaired Category 5 – Impaired Trophic status – Eutrophic	On the Planning List due to: 1. Missing core parameters: *Escherichia coli*, total boron, and total mercury. 2. Fish kill in 1999 related to an algal bloom.	Add dissolved oxygen and pH to the 303(d) List for low dissolved oxygen (5 of 25 samples) and low pH (8 of 25 samples).	Fish kill in 1999 related to an algal bloom may be evidence of narrative standards violations.
Fain Lake 10 acres AZL15070102-0005	A&Ww Inconclusive FC Inconclusive PBC Inconclusive Category 3 -- Inconclusive Trophic status – Hypereutrophic	On the Planning List due to: 1. Insufficient monitoring data to assess (1 sampling event). 2. Former turbidity standard exceedance (1 of 1 sample). Investigation into the causes and sources of turbidity will be scheduled during the next monitoring cycle for this watershed.		
Lake Pleasant 2042 acres AZL15070102-1100	A&Ww Inconclusive FC Attaining FBC Inconclusive DWS Attaining AgI Attaining AgL Attaining Category 2 – Attaining Some Uses Trophic status -- Oligotrophic - Mesotrophic	On the Planning List due to: 1. Chronic ammonia exceedance (1 of 9 sampling events). 2. Chronic selenium exceedance (1 of 7 sampling events). 3. Missing core parameter: *Escherichia coli*. Remove fish kill from the Planning List. No fish kills reported 1998-2002.		
Lynx Lake 50 acres AZL15070102-0860	A&Wc Inconclusive FC Inconclusive FBC Inconclusive DWS Inconclusive AgI Inconclusive AgL Attaining Category 2 -- Attaining Some Uses Trophic status – Mesotrophic	On the Planning List due to: 1. Lead exceedances (2 of 5 samples). 2. Manganese exceedances (3 of 7 samples). 3. Missing core parameters: *Escherichia coli*, dissolved metals (cadmium and copper), total boron, total mercury, and turbidity.		ADEQ anticipates that EPA will use the same criteria and place this lake on the 2004 303(d) List for manganese (3 of 7 samples exceeded). For the 2002 303(d) List, EPA determined that 3 or more exceedances with less than 10 samples were sufficient to list a water as "impaired," although Arizona's Impaired Waters Identification Rule would require a minimum of 5 exceedances in 20 samples.
Painted Rock Reservoir 100 acres AZL15070101-1020A	A&Ww Inconclusive FBC Inconclusive FC Impaired AgI Inconclusive AgL Inconclusive Category 5 — Impaired Trophic status not calculated	On the Planning List due to insufficient water quality monitoring data.	EPA placed this reach on the 2002 303(d) List because DDT metabolites, toxaphene, and chlordane in fish tissue led to a fish consumption advisory. EPA's listing was based on a violation of narrative water quality standards. Arizona's Impaired Waters Identification Rule requires adoption of narrative implementation procedures before the state may use narrative information in a listing decision, but once listed, this lake cannot be delisted until a TMDL is complete or sufficient data are collected to indicate that these pesticides are no longer a concern in fish tissue (fish consumption advisory removed). ADEQ is currently developing a workplan to complete a TMDL or other remedial strategy to deal with these legacy pollutants.	These pesticides do not stay in an aqueous state and bioaccumulate rapidly up the food chain. Additionally, most lab reporting limits are not low enough to use results for assessment; therefore, lack of exceedances in the water column does not provide sufficient information about pesticide problems in the stream.
Papago Park Ponds 6 acres AZL15060106B-1030	A&Ww Inconclusive FC Attaining PBC Inconclusive Category 2 -- Attaining Some Uses Trophic status – Eutrophic	On the Planning list due to missing core parameters: *Escherichia coli* and turbidity.		
Tempe Town Lake 220 acres AZL15060106B-1588	A&Ww Attaining FC Attaining FBC Attaining Category 1 – Attaining All Uses Trophic status not calculated (Designated uses have changed on this lake since the last assessment.)	Remove pH from the Planning List. Weekly pH samples have met applicable standards since treatment began in April of 2002.		