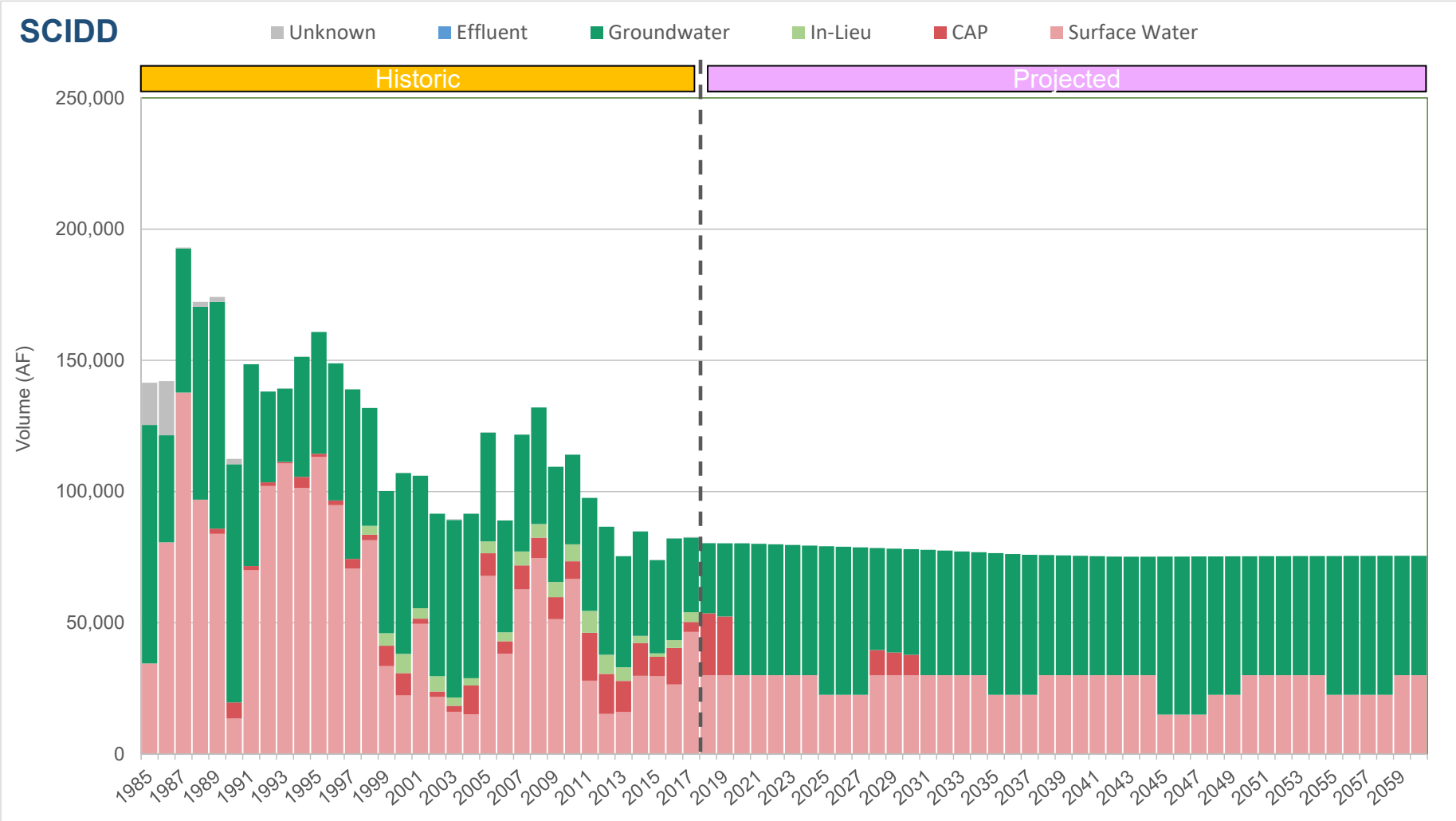
SCIDD

Central Arizona Project Service Area Model

A. Highest Demand [EMSBS]

High growth rate, spillover (suburban) growth pattern, hotter and drier climate, unlimited Ag pumping capacity



SCIDD

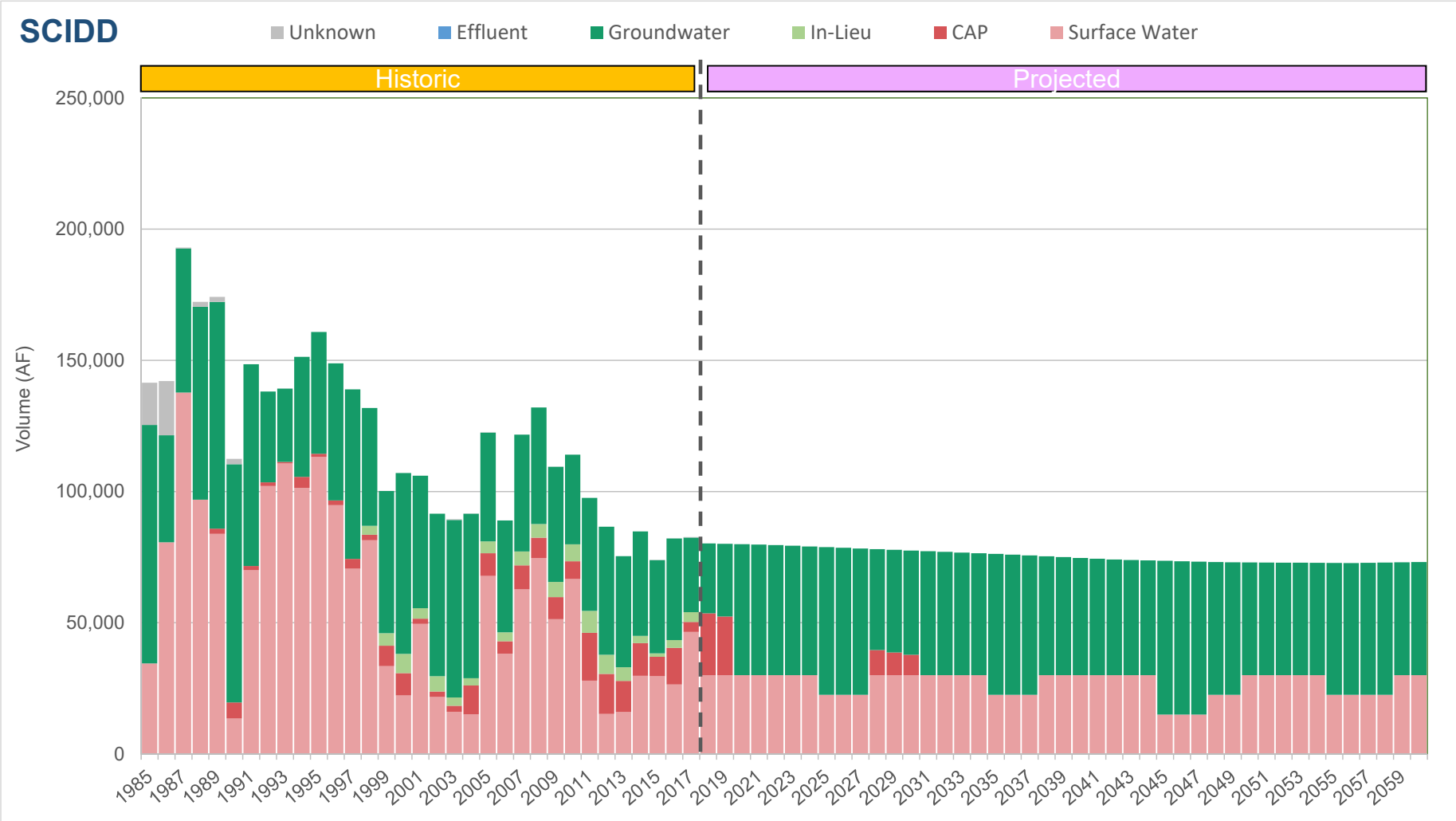
Date	Effluent	Surface Water	CAP	In-Lieu	Groundwater	Unknwon
2018	0	30,000	23,547	0	26,747	0
2019	0	30,000	22,370	0	27,899	0
2020	0	30,000	0	0	50,237	0
2021	0	30,000	0	0	50,063	0
2022	0	30,000	0	0	49,840	0
2023	0	30,000	0	0	49,611	0
2024	0	30,000	0	0	49,377	0
2025	0	22,500	0	0	56,646	0
2026	0	22,500	0	0	56,412	0
2027	0	22,500	0	0	56,184	0
2028	0	30,000	9,551	0	38,902	0
2029	0	30,000	8,659	0	39,570	0
2030	0	30,000	7,758	0	40,242	0
2031	0	30,000	0	0	47,771	0
2032	0	30,000	0	0	47,473	0
2033	0	30,000	0	0	47,157	0
2034	0	30,000	0	0	46,837	0
2035	0	22,500	0	0	54,016	0
2036	0	22,500	0	0	53,686	0
2037	0	22,500	0	0	53,396	0
2038	0	30,000	0	0	45,757	0
2039	0	30,000	0	0	45,618	0
2040	0	30,000	0	0	45,472	0
2041	0	30,000	0	0	45,339	0
2042	0	30,000	0	0	45,198	0
2043	0	30,000	0	0	45,136	0
2044	0	30,000	0	0	45,152	0
2045	0	15,000	0	0	60,183	0
2046	0	15,000	0	0	60,207	0
2047	0	15,000	0	0	60,231	0
2048	0	22,500	0	0	52,744	0
2049	0	22,500	0	0	52,777	0
2050	0	30,000	0	0	45,301	0
2051	0	30,000	0	0	45,323	0
2052	0	30,000	0	0	45,336	0
2053	0	30,000	0	0	45,368	0
2054	0	30,000	0	0	45,389	0
2055	0	22,500	0	0	52,911	0
2056	0	22,500	0	0	52,918	0
2057	0	22,500	0	0	52,951	0
2058	0	22,500	0	0	52,972	0
2059	0	30,000	0	0	45,494	0
2060	0	30,000	0	0	45,497	0

SCIDD

Central Arizona Project Service Area Model

B. Having it All [EMSBS]

Medium growth rate, local growth pattern, hotter and drier climate, unlimited Ag pumping capacity



SCIDD

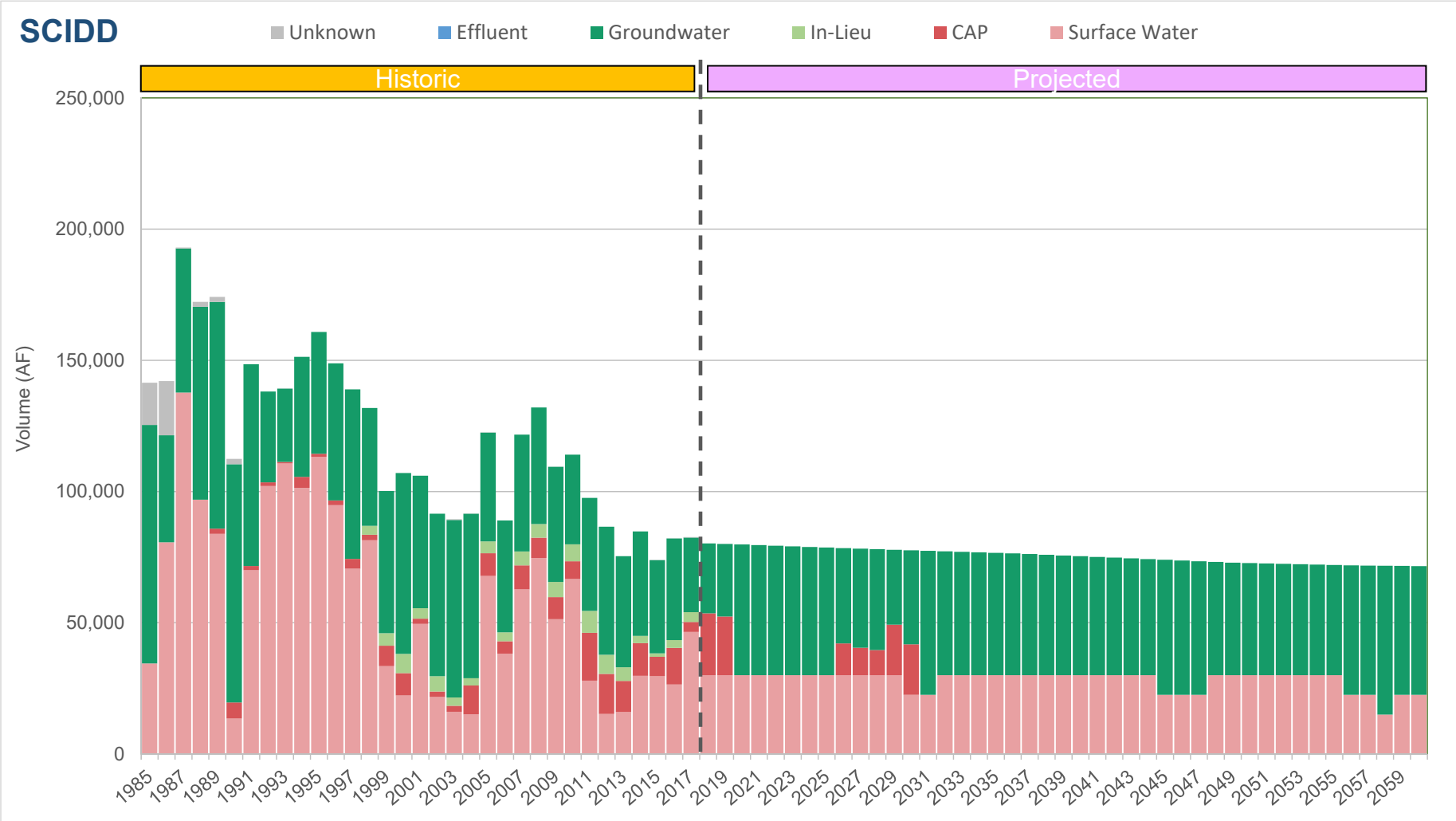
Date	Effluent	Surface Water	CAP	In-Lieu	Groundwater	Unknwon
2018	0	30,000	23,547	0	26,653	0
2019	0	30,000	22,370	0	27,693	0
2020	0	30,000	0	0	49,922	0
2021	0	30,000	0	0	49,779	0
2022	0	30,000	0	0	49,547	0
2023	0	30,000	0	0	49,301	0
2024	0	30,000	0	0	49,051	0
2025	0	22,500	0	0	56,304	0
2026	0	22,500	0	0	56,041	0
2027	0	22,500	0	0	55,778	0
2028	0	30,000	9,551	0	38,463	0
2029	0	30,000	8,659	0	39,099	0
2030	0	30,000	7,758	0	39,742	0
2031	0	30,000	0	0	47,239	0
2032	0	30,000	0	0	46,971	0
2033	0	30,000	0	0	46,717	0
2034	0	30,000	0	0	46,459	0
2035	0	22,500	0	0	53,703	0
2036	0	22,500	0	0	53,444	0
2037	0	22,500	0	0	53,135	0
2038	0	30,000	0	0	45,314	0
2039	0	30,000	0	0	44,995	0
2040	0	30,000	0	0	44,675	0
2041	0	30,000	0	0	44,370	0
2042	0	30,000	0	0	44,062	0
2043	0	30,000	0	0	43,879	0
2044	0	30,000	0	0	43,715	0
2045	0	15,000	0	0	58,570	0
2046	0	15,000	0	0	58,417	0
2047	0	15,000	0	0	58,267	0
2048	0	22,500	0	0	50,609	0
2049	0	22,500	0	0	50,513	0
2050	0	30,000	0	0	42,969	0
2051	0	30,000	0	0	42,925	0
2052	0	30,000	0	0	42,871	0
2053	0	30,000	0	0	42,837	0
2054	0	30,000	0	0	42,793	0
2055	0	22,500	0	0	50,251	0
2056	0	22,500	0	0	50,195	0
2057	0	22,500	0	0	50,309	0
2058	0	22,500	0	0	50,411	0
2059	0	30,000	0	0	43,014	0
2060	0	30,000	0	0	43,104	0

SCIDD

Central Arizona Project Service Area Model

C. Medium, Strong Ag [EMSBS]

Medium growth rate, official growth pattern, hot and dry climate, unlimited Ag pumping capacity. Pairwise comparison to Scenario D.



SCIDD

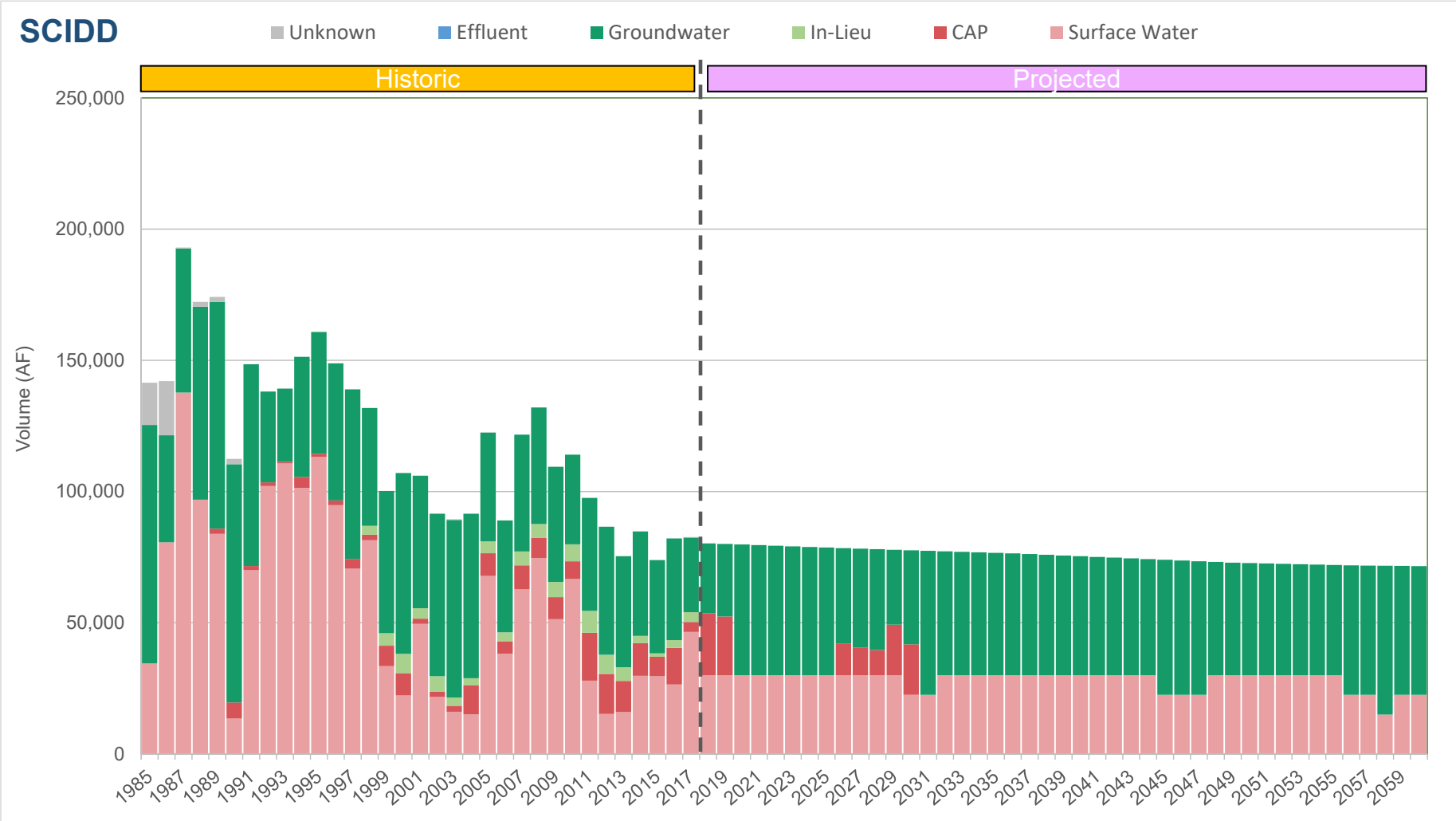
Date	Effluent	Surface Water	CAP	In-Lieu	Groundwater	Unknwon
2018	0	30,000	23,547	0	26,662	0
2019	0	30,000	22,370	0	27,637	0
2020	0	30,000	0	0	49,794	0
2021	0	30,000	0	0	49,577	0
2022	0	30,000	0	0	49,343	0
2023	0	30,000	0	0	49,101	0
2024	0	30,000	0	0	48,859	0
2025	0	30,000	0	0	48,628	0
2026	0	30,000	12,073	0	36,343	0
2027	0	30,000	10,446	0	37,761	0
2028	0	30,000	9,551	0	38,445	0
2029	0	30,000	19,243	0	28,547	0
2030	0	22,500	19,243	0	35,840	0
2031	0	22,500	0	0	54,882	0
2032	0	30,000	0	0	47,180	0
2033	0	30,000	0	0	46,987	0
2034	0	30,000	0	0	46,792	0
2035	0	30,000	0	0	46,598	0
2036	0	30,000	0	0	46,402	0
2037	0	30,000	0	0	46,146	0
2038	0	30,000	0	0	45,869	0
2039	0	30,000	0	0	45,593	0
2040	0	30,000	0	0	45,318	0
2041	0	30,000	0	0	45,053	0
2042	0	30,000	0	0	44,789	0
2043	0	30,000	0	0	44,514	0
2044	0	30,000	0	0	44,228	0
2045	0	22,500	0	0	51,456	0
2046	0	22,500	0	0	51,181	0
2047	0	22,500	0	0	50,910	0
2048	0	30,000	0	0	43,137	0
2049	0	30,000	0	0	42,880	0
2050	0	30,000	0	0	42,695	0
2051	0	30,000	0	0	42,549	0
2052	0	30,000	0	0	42,400	0
2053	0	30,000	0	0	42,265	0
2054	0	30,000	0	0	42,125	0
2055	0	30,000	0	0	41,988	0
2056	0	22,500	0	0	49,345	0
2057	0	22,500	0	0	49,219	0
2058	0	15,000	0	0	56,671	0
2059	0	22,500	0	0	49,125	0
2060	0	22,500	0	0	49,072	0

SCIDD

Central Arizona Project Service Area Model

D. Medium, Reduced Ag [EMSBS]

Medium growth rate, official growth pattern, hot and dry climate, Ag pumping capacity equal to 1.5x the max gw use from 2003 to 2013. Pairwise comparison to Scenario C.



SCIDD

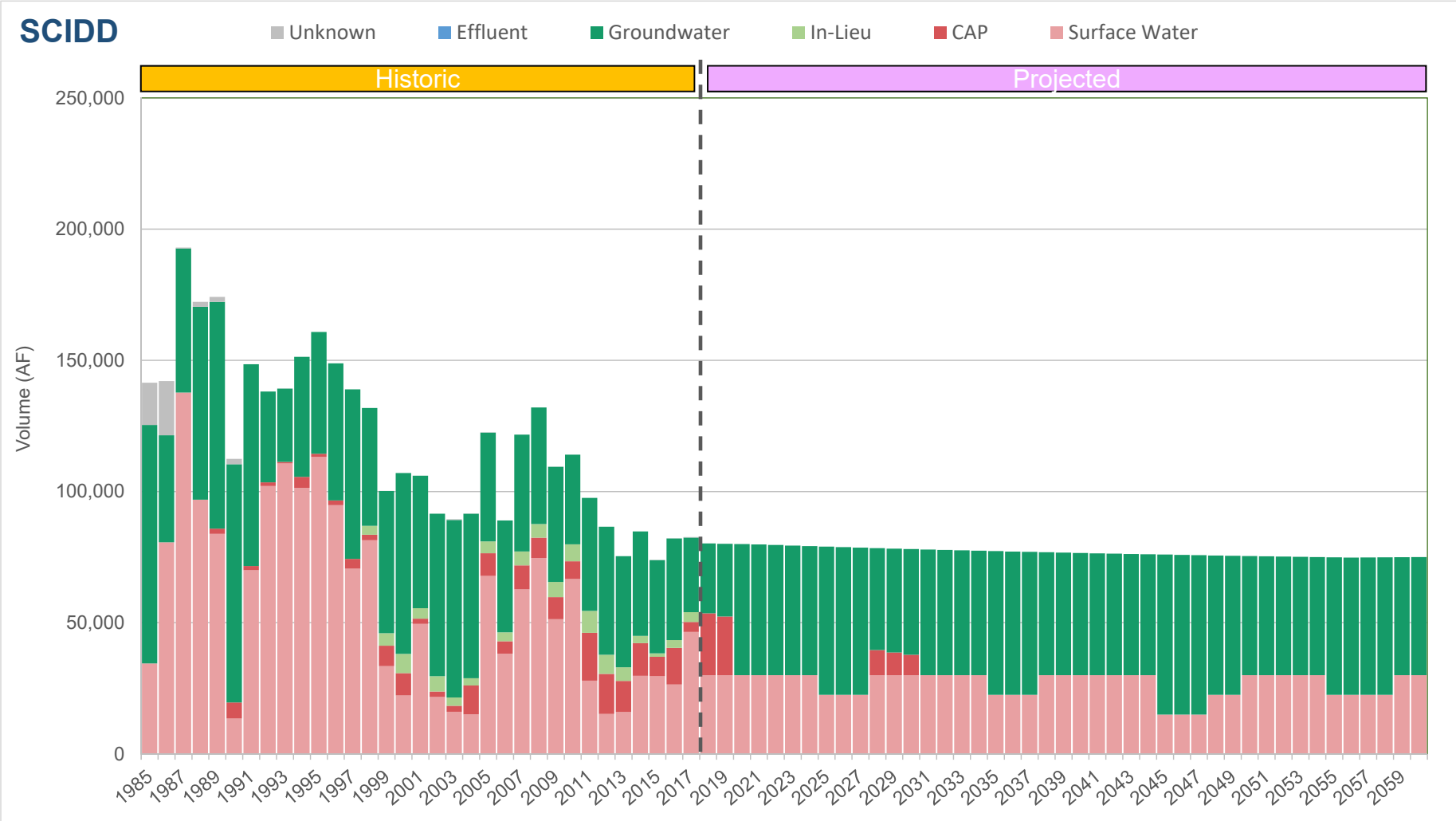
Date	Effluent	Surface Water	CAP	In-Lieu	Groundwater	Unknwon
2018	0	30,000	23,547	0	26,662	0
2019	0	30,000	22,370	0	27,637	0
2020	0	30,000	0	0	49,794	0
2021	0	30,000	0	0	49,577	0
2022	0	30,000	0	0	49,343	0
2023	0	30,000	0	0	49,101	0
2024	0	30,000	0	0	48,859	0
2025	0	30,000	0	0	48,628	0
2026	0	30,000	12,073	0	36,343	0
2027	0	30,000	10,446	0	37,761	0
2028	0	30,000	9,551	0	38,445	0
2029	0	30,000	19,243	0	28,547	0
2030	0	22,500	19,243	0	35,840	0
2031	0	22,500	0	0	54,882	0
2032	0	30,000	0	0	47,180	0
2033	0	30,000	0	0	46,987	0
2034	0	30,000	0	0	46,792	0
2035	0	30,000	0	0	46,598	0
2036	0	30,000	0	0	46,402	0
2037	0	30,000	0	0	46,146	0
2038	0	30,000	0	0	45,869	0
2039	0	30,000	0	0	45,593	0
2040	0	30,000	0	0	45,318	0
2041	0	30,000	0	0	45,053	0
2042	0	30,000	0	0	44,789	0
2043	0	30,000	0	0	44,514	0
2044	0	30,000	0	0	44,228	0
2045	0	22,500	0	0	51,456	0
2046	0	22,500	0	0	51,181	0
2047	0	22,500	0	0	50,910	0
2048	0	30,000	0	0	43,137	0
2049	0	30,000	0	0	42,880	0
2050	0	30,000	0	0	42,695	0
2051	0	30,000	0	0	42,549	0
2052	0	30,000	0	0	42,400	0
2053	0	30,000	0	0	42,265	0
2054	0	30,000	0	0	42,125	0
2055	0	30,000	0	0	41,988	0
2056	0	22,500	0	0	49,345	0
2057	0	22,500	0	0	49,219	0
2058	0	15,000	0	0	56,671	0
2059	0	22,500	0	0	49,125	0
2060	0	22,500	0	0	49,072	0

SCIDD

Central Arizona Project Service Area Model

E. Lowest Demand, Hot [EMSBS]

Slow growth rate, dense urbanization growth pattern, hotter and drier climate, Ag pumping capacity equal to the max gw use from 2003 to 2013 plus additional DCP pumping capacity. Pairwise comparison to Scenario F.



SCIDD

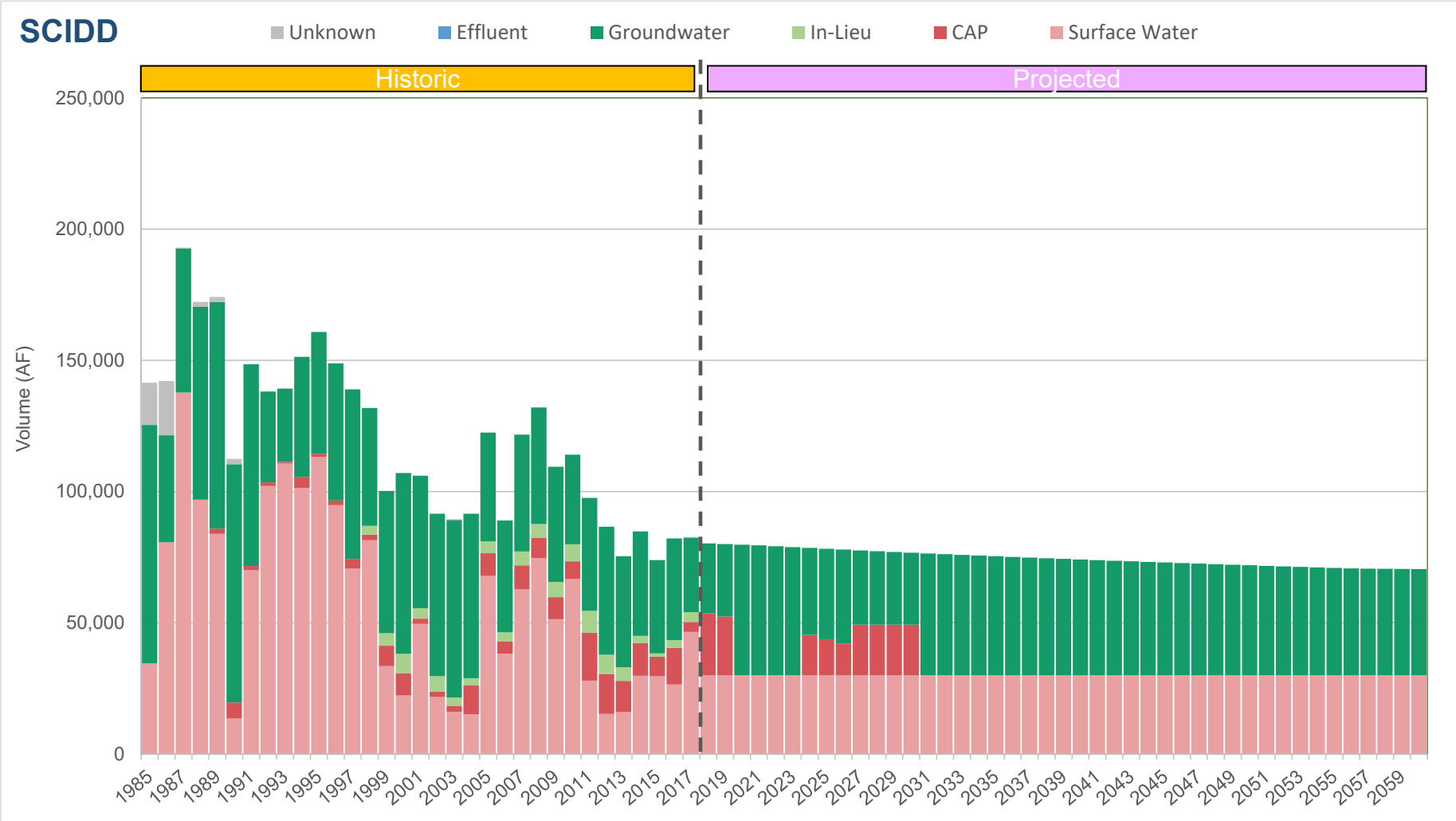
Date	Effluent	Surface Water	CAP	In-Lieu	Groundwater	Unknwon
2018	0	30,000	23,547	0	26,645	0
2019	0	30,000	22,370	0	27,699	0
2020	0	30,000	0	0	49,944	0
2021	0	30,000	0	0	49,804	0
2022	0	30,000	0	0	49,600	0
2023	0	30,000	0	0	49,391	0
2024	0	30,000	0	0	49,184	0
2025	0	22,500	0	0	56,485	0
2026	0	22,500	0	0	56,286	0
2027	0	22,500	0	0	56,092	0
2028	0	30,000	9,551	0	38,845	0
2029	0	30,000	8,659	0	39,554	0
2030	0	30,000	7,758	0	40,280	0
2031	0	30,000	0	0	47,878	0
2032	0	30,000	0	0	47,715	0
2033	0	30,000	0	0	47,564	0
2034	0	30,000	0	0	47,412	0
2035	0	22,500	0	0	54,763	0
2036	0	22,500	0	0	54,610	0
2037	0	22,500	0	0	54,472	0
2038	0	30,000	0	0	46,831	0
2039	0	30,000	0	0	46,693	0
2040	0	30,000	0	0	46,550	0
2041	0	30,000	0	0	46,428	0
2042	0	30,000	0	0	46,305	0
2043	0	30,000	0	0	46,184	0
2044	0	30,000	0	0	46,057	0
2045	0	15,000	0	0	60,948	0
2046	0	15,000	0	0	60,833	0
2047	0	15,000	0	0	60,721	0
2048	0	22,500	0	0	53,101	0
2049	0	22,500	0	0	53,003	0
2050	0	30,000	0	0	45,397	0
2051	0	30,000	0	0	45,293	0
2052	0	30,000	0	0	45,181	0
2053	0	30,000	0	0	45,091	0
2054	0	30,000	0	0	44,993	0
2055	0	22,500	0	0	52,397	0
2056	0	22,500	0	0	52,290	0
2057	0	22,500	0	0	52,351	0
2058	0	22,500	0	0	52,401	0
2059	0	30,000	0	0	44,954	0
2060	0	30,000	0	0	44,994	0

SCIDD

Central Arizona Project Service Area Model

F. Lowest Demand, Historic [EMSBS]

Slow growth rate, dense urbanization growth pattern, historic climate, Ag pumping capacity equal to the max gw use from 2003 to 2013 plus additional DCP pumping capacity. Pairwise comparison to Scenario E.



SCIDD

Date	Effluent	Surface Water	CAP	In-Lieu	Groundwater	Unknwon
2018	0	30,000	23,547	0	26,645	0
2019	0	30,000	22,370	0	27,579	0
2020	0	30,000	0	0	49,706	0
2021	0	30,000	0	0	49,446	0
2022	0	30,000	0	0	49,124	0
2023	0	30,000	0	0	48,798	0
2024	0	30,000	15,332	0	33,145	0
2025	0	30,000	13,702	0	34,458	0
2026	0	30,000	12,073	0	35,773	0
2027	0	30,000	19,243	0	28,295	0
2028	0	30,000	19,243	0	27,990	0
2029	0	30,000	19,243	0	27,690	0
2030	0	30,000	19,243	0	27,403	0
2031	0	30,000	0	0	46,374	0
2032	0	30,000	0	0	46,105	0
2033	0	30,000	0	0	45,839	0
2034	0	30,000	0	0	45,577	0
2035	0	30,000	0	0	45,318	0
2036	0	30,000	0	0	45,062	0
2037	0	30,000	0	0	44,809	0
2038	0	30,000	0	0	44,560	0
2039	0	30,000	0	0	44,315	0
2040	0	30,000	0	0	44,072	0
2041	0	30,000	0	0	43,837	0
2042	0	30,000	0	0	43,607	0
2043	0	30,000	0	0	43,380	0
2044	0	30,000	0	0	43,156	0
2045	0	30,000	0	0	42,934	0
2046	0	30,000	0	0	42,715	0
2047	0	30,000	0	0	42,498	0
2048	0	30,000	0	0	42,283	0
2049	0	30,000	0	0	42,073	0
2050	0	30,000	0	0	41,864	0
2051	0	30,000	0	0	41,657	0
2052	0	30,000	0	0	41,453	0
2053	0	30,000	0	0	41,251	0
2054	0	30,000	0	0	41,051	0
2055	0	30,000	0	0	40,854	0
2056	0	30,000	0	0	40,657	0
2057	0	30,000	0	0	40,598	0
2058	0	30,000	0	0	40,539	0
2059	0	30,000	0	0	40,483	0
2060	0	30,000	0	0	40,428	0