

Mid-Year (August 2009 to July 2010) Arsenic Summary in the California Aqueduct.

DWR routinely collects surface water samples at locations above and below groundwater pump-in points along the SWP. When non-project water is pumped into the SWP samples are also collected at or near these pump-in locations. The samples are analyzed for a number of contaminants by DWR's Bryte Laboratory and the data is available at: <http://www.water.ca.gov/waterdatalibrary/>

Table 1 summarizes the total acre-feet (AF) of pump-ins and Table 2 summarizes the constituent concentrations in the SWP above and below the pump-in locations. Arsenic concentrations in the SWP are elevated due to the pump-ins.

Table 1: Ground Water Pump-in Totals acre-feet (August 2009 to July 2010)

Year	Month	ST3	ST2	CVC	KWB Canal	AEWSD	Monthly Total	Chrisman Pumpage
2009	August	0		1,158	7,653	327	1,158	132,875
2009	September	7,720		0	0	8,568	16,288	117,045
2009	October	14,579		12,486	11,999	8,858	47,922	145,847
2009	November	16,563		24,810	16,071	9,125	66,569	130,580
2009	December	6,797		9,086	16,132	5,488	37,503	74,901
2010	January	0		17,869	15,961	8,847	42,677	56,207
2010	February	56		19,293	2,786	8,523	30,658	43,512
2010	March	0		9,394	9,865	0	19,259	46,945
2010	April	0		21,210	12,408	5,768	39,386	79,436
2010	May	0		22,138	11,164	8,903	42,205	96,837
2010	June	0		3,353	7,267	717	11,337	132,827
2010	July	0		0	0	0	0	176,576
Total (AF)		45,715		140,797	111,306	65,124	362,942	1,233,588

ST= Semitropic Water Storage District, CVC= Cross Valley Canal (operated by Kern County Water Agency), KWB=Kern Water Bank (operated by the Kern Water Bank Authority), and AEWSD= Arvin-Edison Water Storage District.

Table 2: Average Water Quality at SWP Locations Above and Below Pump-in Points (August 2009 to July 2010)

		Arsenic	Bromide	Nitrate	Sulfate	TDS	TOC
Below Pump-ins	Checks 39 and 41	0.004	0.21	3.6	42	255	2.4
	(number of samples)	32	12	32	32	32	12
Above Pump-ins	Checks 21 and 23	0.002	0.25	2.7	41	285	3.9
	(number of samples)	12	12	12	12	12	12
Average Increase/Decrease		0.002	-0.04	0.9	1	-30	-1.5

All values in mg/L (ppm), DWR data only.