



**U.S. Bureau of Reclamation Static GPS Survey for Subsidence Monitoring  
Central Valley California**

Free Adjustment - July 2015				NAVD 1988 Elevation of Monitoring Point (feet)										Dec - Dec Annual Subsidence (feet)				July - July Annual Subsidence (feet)				Previous
PT	NAD 83 (2007) CA Zone 4 - US Feet		NAVD 88	Desc	Dec-11	Jul-12	Dec-12	Jul-13	Dec-13	Jul-14	Dec-14	Jul-15	Dec-11	Dec-12	Dec-13	Dec-11	Jul-12	Jul-13	Jul-14	Jul-12	Dec-14	
	Northing	Easting	Elev										Dec-12	Dec-13	Dec-14	Dec-14	Jul-13	Jul-14	Jul-15	Jul-15	Jul-15	
2076	2280427.69	6163347.79	179.68	F 158 RESET 1967		180.95	180.86	180.67	180.34	180.22	180.12	179.68		-0.51	-0.22	-0.37	-0.28	-0.45	-0.55	-0.42	-0.44	
2107	2099695.69	6220352.67	175.45	MARTIN 2008		176.24	176.19	176.12	175.77	175.54	175.65	175.45		-0.42	-0.12	-0.27	-0.13	-0.58	-0.09	-0.26	-0.20	
2147	2062741.58	6223015.94	195.66	BURNSIDE		196.80	196.72	196.63	196.22	195.96	195.96	195.66		-0.50	-0.26	-0.38	-0.17	-0.67	-0.30	-0.38	-0.30	
2149	2115864.81	6175004.30	165.33	MURIETTA		166.01	165.96	165.93	165.59	165.48	165.51	165.33		-0.37	-0.08	-0.23	-0.08	-0.45	-0.15	-0.23	-0.17	
2160	2078118.24	6305388.25	232.73	BLYTHE		233.19	233.02	232.98	232.67	232.74	232.73	232.73		-0.35	0.06	-0.14	-0.21	-0.24	-0.01	-0.15	0.00	
2348	2256684.58	6084032.50	112.98	HARMON		113.44	113.37	113.25	113.08	113.08	113.15	112.98		-0.28	0.07	-0.11	-0.19	-0.17	-0.10	-0.16	-0.17	
2362	2256922.91	6143246.15	148.02	DWR 154.33		149.82	149.62	149.29	148.89	148.68	148.52	148.02		-0.73	-0.38	-0.55	-0.53	-0.60	-0.66	-0.60	-0.50	
2378	2256382.23	6184306.48	181.04	MELISSA		182.59	182.47	182.26	181.86	181.63	181.46	181.04		-0.61	-0.40	-0.50	-0.33	-0.63	-0.59	-0.52	-0.42	
2448	2061261.08	6266141.15	198.23	V513		199.42	199.28	199.19	198.76	198.54	198.50	198.23		-0.52	-0.25	-0.39	-0.23	-0.65	-0.31	-0.40	-0.27	
2562	2232976.78	6129496.39	132.65	HETFIELD		133.74	133.64	133.54	133.21	133.13	133.09	132.65		-0.42	-0.13	-0.27	-0.20	-0.41	-0.48	-0.36	-0.44	
AA4259	2405238.96	6241496.42	1289.37	HPGN D CA 10 FP					1289.30	1289.34	1289.23	1289.37			-0.07	-0.07			0.03	0.03	0.14	
AC5729	2273179.40	6009947.63	137.92	X1235					137.88	137.96	137.96	137.92			0.08	0.08			-0.04	-0.04	-0.04	
DH6665	2197033.02	6077365.85	189.80	MATTHEW					189.84	189.78	189.94	189.80			0.10	0.10			0.01	0.01	-0.14	
DH6671	2143813.42	6133818.58	233.55	PEYTON					233.79	233.56	233.69	233.55			-0.09	-0.09			-0.01	-0.01	-0.15	
GT1871	2143787.74	6458478.33	507.15	KAKTUS					506.73	506.84	506.65	507.15			-0.08	-0.08			0.30	0.30	0.49	
GU0278	2172507.75	6031179.34	704.65	J 1074					704.63	704.50	704.81	704.65			0.18	0.18			0.15	0.15	-0.16	
GU0492	2082514.91	6102978.79	1103.69	L 928					1103.64	1103.49	1103.63	1103.69			0.00	0.00			0.20	0.20	0.06	
HS2494	2343309.18	5956829.32	183.34	57.95 USBR					183.26	183.48	183.39	183.34			0.14	0.14			-0.14	-0.14	-0.05	

-0.15 Shorter Duration (Calculation starts with first December occupation or first July occupation)

GPS observation point moved out of road for safety July 2014. Elevations adjusted to original point via levels. See below for Deltas to apply  
 BM 160R add -1.663 to GPS Elevation for Final Elevation  
 BM 1053R add -7.877 to GPS Elevation for Final Elevation  
 BM 1054R add -2.177 to GPS Elevation for Final Elevation  
 BM 1055R add +0.633 to GPS Elevation for Final Elevation