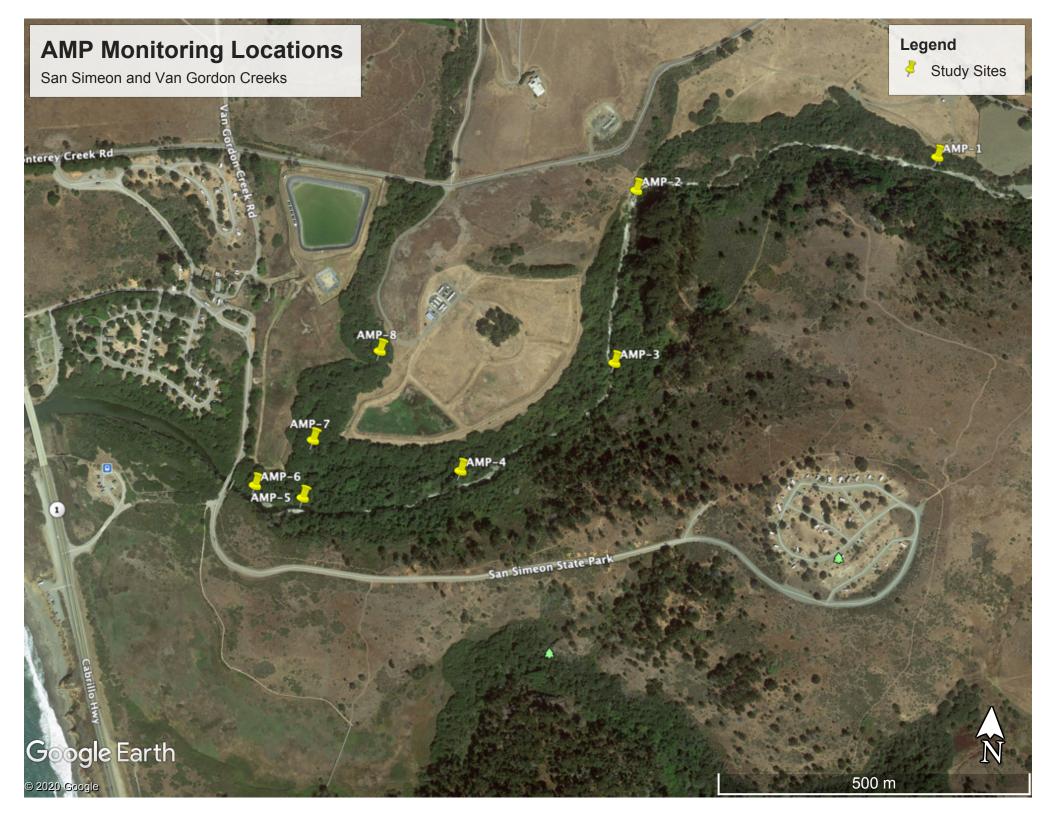
Cambria Community Service District Adaptive Management Plan Biological Bi-Monthly Monitoring Report



Prepared by

Cleveland Biological, LLC cindycleve@gmail.com 805.234.3759

January 16, 2022



Cleveland Biological, LLC		CCSD AMP Biologi	ogical Monitoring in San Simeon and Van Gordon Creeks				
Cindy & Paul Cleveland							
Survey Date: 1-16-2022	High Tide: 5.48 ft (Tide: 5.48 ft @ 8:40 AM		Low Tide: -0.57 ft @ 4:17 PM		Sandbar Breached: Yes	
Location	Site 1	<u>Site 2</u>	<u>Site 3</u>	<u>Site 4</u>	<u>Site 5</u>	Site 7*	<u>Site 8</u>
Time	1:18 PM	12:53 PM	12:12 PM	11:54 PM	11:33 AM	11:13 AM	11:05 AM
Weather (°F, Cloud cover)	64, cloudy	62, cloudy	62, cloudy	62, cloudy	62, cloudy	62, cloudy	62, cloudy
Habitat							
Stream type (run, riffle, pool)	Pool	Riffle	Run	Run	Pool	Run	Riffle
Instream cover type (Iwd,swd,etc)	swd	riparian veg	none	swd	riparian veg	none	none
Substrate type (cobble, gravel, silt)	C, S	c, g	с, g	c, g	S, C	С	С
Substrate embededness (%)	75	50	50	50	100	75	75
Algae Surface (%)	0	0	0	0	0	0	0
Algae Subsurface (%)	0	0	0	0	0	0	0
Vegetation							
Instream cover (%)	0	0	0	10	10	0	0
Overhead cover (%)	10	0	10	30	10	80	80
Riparian width-Rt Bank (ft)		35	210	135	25	30	30
Riparian width-Lt Bank (ft)	100	10	8.6	230	85	85	55
Riparian Moisture-Rt Bank (%)	25.3	19.7	14.4	50	24.1	22.9	23.3
Riparian Moisture-Lt Bank (%)	17.2	14.1	19.9	25.3	50	20.37	17.4
Hydrology							
Maximum depth (ft)	2.9	1.1	0.85	1.2	3.6	dry	0.1
Wetted width (ft)	22.5	27	21.5	17.5	52.0	dry	1.6
Flow = Area x Rate (cfs)	8.9	13.4	7.1	7.6	9.8	dry	na
Hydrology Calculations							
Depth 1 @ 1/4 (ft)	2.4	0.5	0.2	0.6	1.4	dry	na
Depth 2 @ 1/2 (ft)	2.9	0.7	0.3	1.2	2.6	dry	na
Depth 3 @ 3/4 (ft)	2.6	1	0.7	1.1	3.5	dry	na
Average Depth = total/4 (ft)	2.0	0.6	0.3	0.7	1.9	dry	na
Area = Width x Avg Depth (ft^2)	44.4	14.9	6.5	12.7	97.5	dry	na
Rate from meter (ft/sec)	0.2	0.9	1.1	0.6	0.1	dry	na

	Site 1	Site 2	Site 3	Site 4	Site 5	Site 7*	Site 8				
Water Quality											
Temperature (F)	57.7	57.1	56.7	56.8	56.3	dry	na				
Dissolved Oxygen (%)	96	95	93.5	88.4	101	dry	na				
Dissolved Oxygen (ppm)	9.82	9.78	9.68	9.17	9.32	dry	na				
Total Dissolved Solids (mg/L)	360	359	363	398	20,946	dry	na				
Salinity (ppt)	0.27	0.24	0.27	0.30	20.15	dry	na				
Water Guage											
Water Level (ft)				na	na						
Site 4 guage is in pool approx.	50 m upstream of Site 4 n	ear right bank. Site	5 guage is at site o	n left bank.							
Species Observed	Only a few Sticklek	Only a few Stickleback below Site 4 and one likely Prickly sculpin below Site 2.									
Comments	0	The rain and high flows caused several changes - the deepest pool above Site 4 has filled into a run. The large tree that fell at Site 4 is gone, and both stream gauges at Sites 4 and 5 are gone. Between 12/13/21 and 12/29/21 there was 8.07 inches of rainfall recorded.									
Location Descriptions	Trail by SS-1	Downstream of rock pool	Draw a line from 9P7 along road to the creek	Stream flow starts/ends	Upstream of Van Gordon confluence	Van Gordon accessed at MW-4	Van Gordon accessed from AWTP				
GPS	35°36'0.23"N	35°35'57.55"N	35°35'48.09"N	35°35'41.88"N	35°35'40.00"N	35°35'43.10"N	35°35'48.06"N				
	121° 6'33.42"W	121° 6'53.39"W	121° 6'54.29"W	121° 7'4.04"W	121° 7'14.25"W	121° 7'13.85"W	121° 7'9.81"W				
*Site 6 is on State Parks prope	rty and is not accessible a	t this time.									
9P7 Soil Moisture†											
North (%)	16.3					1					
East (%)	12.9					1					
South (%)	11.8					1					
West (%)	13.3										
·											
⁺ Moisture measured on each s	ide of well casing. Max re	ading is 50%.									











Site 2

















Site 4











Site 5







Site 7



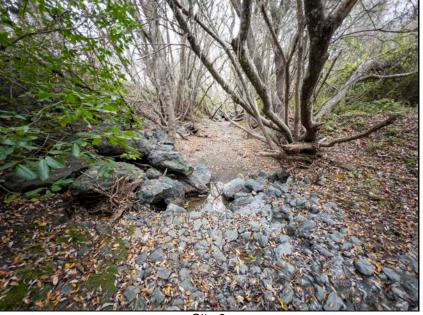






Site 8





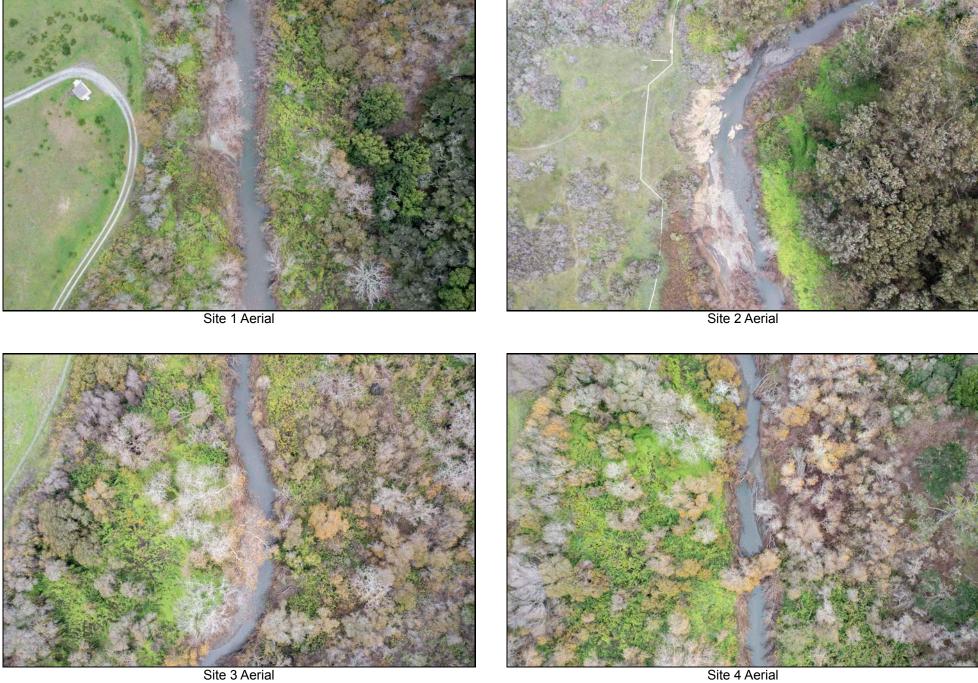






Walking Bridge PS-1







Site 5 Aerial

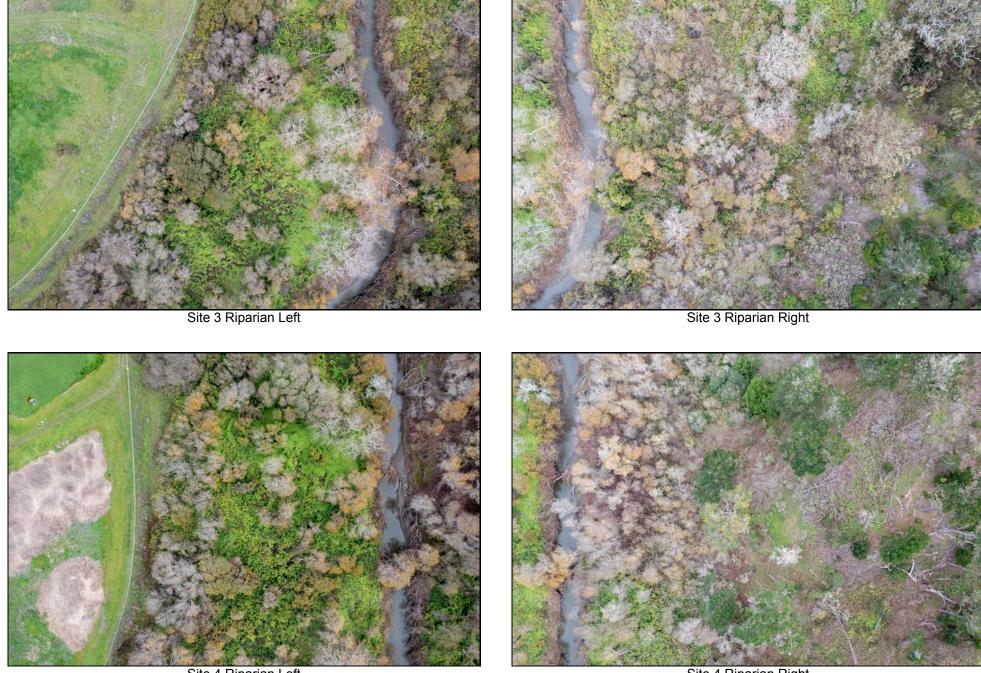


Site 7 Aerial



Site 8 Aerial





Site 4 Riparian Left

Site 4 Riparian Right



Site 7 Aerial Riparian Left

Site 7 Riparian Right



Site 8 Aerial Riparian Left & Right