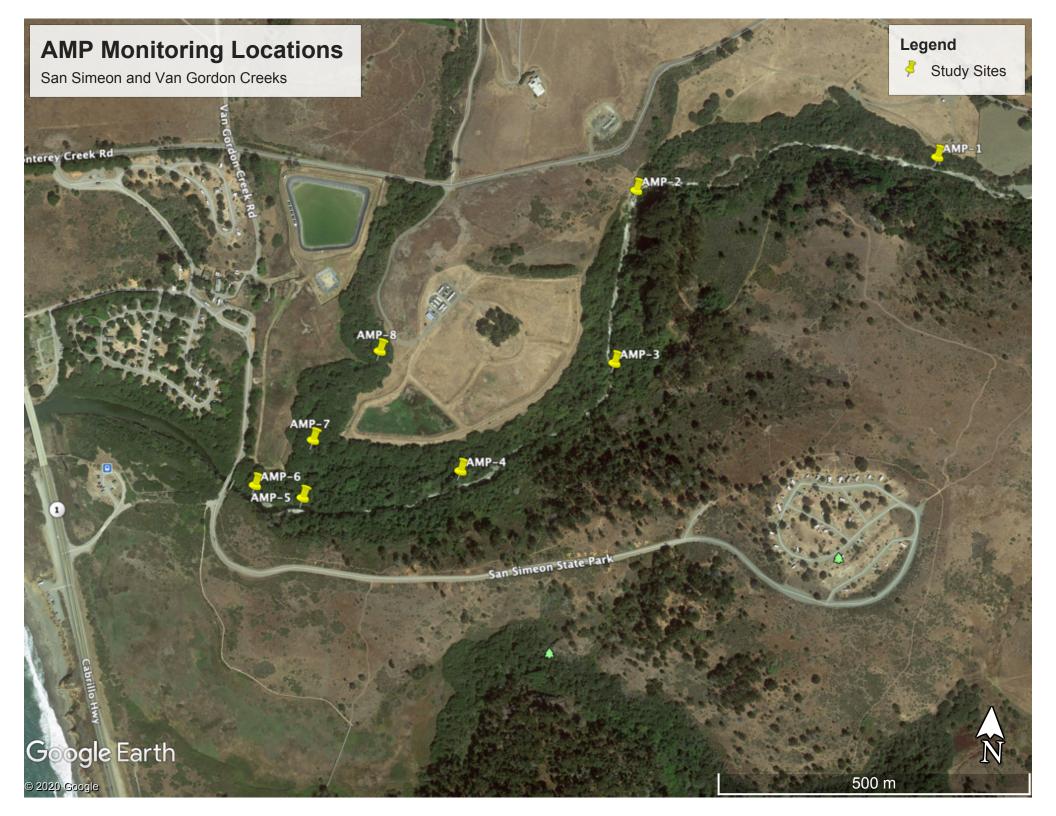
# Cambria Community Service District Adaptive Management Plan Biological Bi-Monthly Monitoring Report



Prepared by

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Cleveland Biological, LLC	CCSD AMP Biological Monitoring in San Simeon and Van Gordon Creeks							
Cindy & Paul Cleveland		_	_					
<b>Survey Date:</b> 2-14-2022	High Tide: 5.41 ft (	@ 7:34 AM	Low Tide: -0.49 ft	@ 3:01 PM	Sandbar Breached	: No	Stage (718): 2.27	
Location	Site 1	Site 2	Site 3	Site 4	Site 5	Site 7*	Site 8	
Time	12:11 PM	11:45 AM	11:29 AM	11:10 AM	10:46 AM	10:24 AM	10:01 AM	
Weather (°F, Cloud cover)	68, cloudy	68, cloudy	67, clear	64, clear	62, clear	58, clear	58, fog	
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		
Substrate type (cobble, gravel, silt)	c, s	c, g	c, 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 (%)	75	75	75	100	75	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 (%)	25.4	21.6	11.4	50.0	26.7	21.4	21.9	
Riparian Moisture-Lt Bank (%)	19.2	7.8	16.2	22.8	22.0	19.0	18.7	
Hydrology								
Maximum depth (ft)	2.5	0.9	0.4	0.9	3.3	dry	dry	
Wetted width (ft)	22.5	23.5	12.5	13.8	51.0	dry	dry	
Flow = Area x Rate (cfs)	3.7	2.1	1.8	1.5	8.7	dry	dry	
Hydrology Calculations								
Depth 1 @ 1/4 (ft)	2.3	0.3	0.1	0.6	1.3	dry	dry	
Depth 2 @ 1/2 (ft)	2.5	0.9	0.3	0.9	2.4	dry	dry	
Depth 3 @ 3/4 (ft)	1.7	0.6	0.4	0.7	3.1	dry	dry	
Average Depth = total/4 (ft)	1.6	0.5	0.2	0.6	1.7	dry		
Area = Width x Avg Depth (ft^2)	36.6	10.6	2.5	7.6	86.7	dry	dry	
Rate from meter (ft/sec)	0.1	0.2	0.7	0.2	0.1	dry	dry	

	Site 1	Site 2	Site 3	Site 4	Site 5	Site 7*	Site 8			
Water Quality										
Temperature (F)	61	58.2	58.3	57.4	57.6	dry	dry			
Dissolved Oxygen (%)	134.3	107.9	105.9	101.9	86.4	dry	dry			
Dissolved Oxygen (ppm)	13.2	10.97	10.75	10.46	8.83	dry	dry			
Total Dissolved Solids (mg/L)	385	391	404	562	647	dry	dry			
Salinity (ppt)	0.29	0.29	0.30	0.43	0.49	dry	dry			
Water Guage										
Water Level (ft)				na	na					
Site 4 guage is in pool approx.50 m upstream of Site 4 near right bank. Site 5 guage is at site on left bank.										
Species Observed  Comments	Only a few Stickleback below Site 4 and one likely Prickly sculpin below Site 2.  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									
Comments	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 property an	d is not accessible a	t this time.								
9P7 Soil Moisture†										
North (%)	10.4									
East (%)	7.4									
South (%)	7.8									
West (%)	9.0									
†Moisture measured on each side of well casing. Max reading is 50%.										







Site 1



Site 1









Site 2









Site 3



Site 3



Site 4



Site 4



Site 4











Site 5



Site 5









Site 7



Site 7









Site 8



Site 8



9P7 Well



Walking Bridge PS-1



Esturary PS-2







Site 2 Aerial



Site 3 Aerial

Site 4 Aerial





Site 5 Aerial



Site 8 Aerial



Site 1 Riparian Left



Site 2 Riparian Left



Site 1 Riparian Right



Site 2 Riparian Right



Site 3 Riparian Left





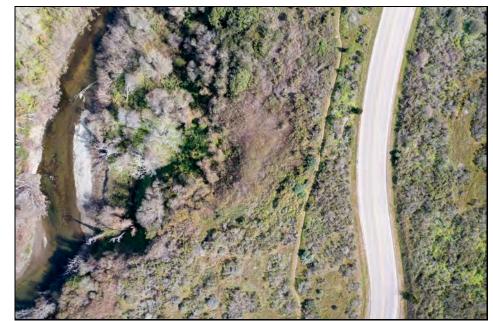
Site 4 Riparian Left



Site 4 Riparian Right



Site 5 Riparian Left



Site 5 Riparian Right



Site 7 Riparian Left



Site 7 Riparian Right



Site 8 Riparian Left & Right