SWAMP Follow-Up Sampling Monitoring Plan
May – June 2006

The Surface Water Ambient Monitoring Program Team (SWAMP) has decided to do a follow up monitoring of SWAMP sites in each of the watersheds in Region 9. This follow-up monitoring provides an opportunity to collect data from sites that otherwise will not be sampled again for 2-5 years. Although not every SWAMP parameter will be represented in this followup effort, the project will collect data representative of the SWAMP approach of assessing the chemical, physical and biological integrity of theses water bodies. The approximate cost per site is $3,615 for a total of $39,765. To fund the project, the SWAMP team has decided to draw upon the funds available in the lab contract, which has to be used by the end of June 2006. All the sampling will be done during the months of May and June. Samples will be collected by Regional Board staff and the SWAMP student at a rate of approximately 1 site per week. The sites selected and parameters to be included in the assessment are provided in Tables 1 and 2 below. All sample collection and analysis will be performed in conformance to a Quality Assurance Project Plan (QAPP) compatible with SWAMP standards. The QAPP for the project will be completed, reviewed, and approved by the Regional Board Quality Assurance Officer and Laboratory Services Contract Manager in early May 2006 before sampling and analysis is initiated.

Table 1: SWAMP Follow Up Monitoring Locations

HU #	Hydrologic Unit Name	Station Name	Station ID
901	San Juan	Aliso Creek 6	ALC 6
902	Santa Margarita	Santa Margarita River	SMR 1
903	San Luis Rey	Keys Creek	KYS 3
904	Carlsbad	Escondido Creek 5	ESC 8
905	San Dieguito	Santa Ysabel Creek	YSA 4
906	Penasquitos	Rose Canyon Creek	RSC4
907	San Diego	San Vicente Creek	SVC 3
908	Pueblo San Diego	Chollas Creek	CHL 4
909	Sweetwater	Lawson Valley Cree	LAW 2
910	Otay	Poggi Creek 3	POG 3
911	Tijuana	Tecaete Creek 3	TET 2
	Totals =		11

Table 2: Estimated Budget

Analysis or Service to be Performed	Parameters	WECK Lab Cost
Trace Organic Chemistry	Full Scan pesticides and pcb congeners	$100.00
	PAH's	$250.00
		$350.00
Trace Metal Chemistry	**Water ICP-MS metals suite--filtered "dissolved"** (Includes Al, Cr, Mn, Ni, Cu, Zn, Ag, Cd, Pb, As, Se--all costs)	$110.00
Conventional Water Chemistry	OrthoPhosphate as P (OPO4)	$12.00
	Phosphorous Total as P (total; TPHOS)	$20.00
	Nitrate as N (NO3)	$12.00
	Nitrite as N (NO2)	$12.00
	Nitrogen, Total Kjeldahl (TKN)	$35.00
	Ammonia as N (NH3)	$20.00
	Sulfate (SO4)	$12.00
	Alkalinity as CaCO3 (ALK)	$10.00
	Total Suspended Solids (TSS)	$12.00
		$145.00
Toxicity Testing - Fresh Water Origin	*Ceriodaphnia* 7-day Survival & Reproduction (one of EPA 3-spp)	$1,000.00
	Selenastrum (algae) test (one of EPA 3-spp)	$700.00
Sediment	Amphipod 10-d Survival (*Hyalella*)--acute	$1,200
		$2,900.00
Sediment Physical Characteristics	Sediment grain size (%silt/clay = fines only)	$75.00
Bacti	Enterococcus	$35.00
	Total Fecal and Coliform	$40.00
Total		**$3,615.00**