

To: Brandi Lubliner, Department of Ecology
From: Rick Haley and Michael See, Skagit County
Date: 5/12/2015
Re: C1500073 Skagit County RSMP Quarterly Report

Project Management for period of January – March 2015

An amendment to the contract between Skagit County and Ecology to cover the extra sampling site (45-WUGA) was negotiated and is in the process of finalization. Skagit County completed sampling at the site in February and March. Skagit County participated in the RSMP conference calls in January and February. Staff were not available for the March conference call. Skagit County staff remain in frequent email contact with Ecology management and laboratory personnel.

Skagit County staff have completed billing for the first quarter.

Monitoring activities

January – Sites 15-WUGA (Brickyard Creek, originally identified as Willard Creek), 19-OUGA (Carpenter Creek), 20-OUGA (Willard Creek), 27-OUGA (Thomas Creek), and 44-OUGA (Campbell Lake Creek) were monitored this month. Data for all parameters were obtained with the following challenges: Skagit County's flowmeter computer stopped functioning after the first site (19-OUGA), so the neutral buoyant object method was used on the remaining sites; use of an outdated bottle list resulted in the total phosphorus samples being put into the wrong preservative, but the Ecology lab was able to obtain total phosphorus samples from another bottle.

February – Site 45-WUGA (Maddox Creek), which was left off the original contract with Skagit County for unknown reasons, was added this month. Data for all parameters were obtained at all sites. A malfunctioning dissolved oxygen meter at site OUGA-44 meant that staff had to revisit the site later in the day with a functioning meter. As a result, the field parameters were taken a couple of hours after the water samples were obtained. As the flowmeter replacement parts had not arrived prior to sampling, the neutral buoyant object method was employed at all sites.

March – All sites were sampled for all parameters. The only challenge this month was a lack of contact from the property owner at 27-OUGA, which meant sampling was delayed at that location until April 2.

Field parameters are summarized in Table 1 on the next page.

Table 1. Field parameter data for Skagit County RSMP sites, Jan-Mar 2015

Skagit County RSMP sampling field data									
15-WUGA Brickyard Creek									
Date	Time	Temp ©	DO (mg/L)	pH	pH2	Cond (uS/cm)	Pressure (in Hg)	Discharge (cfs)	Notes
1/22/2015	900	6.1	9.51	6.9	6.78	106.8	29.75	5.8	4'11" water surface to bridge
2/18/2015	900	6.2	9.95	6.74	6.86	120.6	29.67	5.4	4" pvc pipe discharging from adjacent retention pond
3/24/2015	900	9.2	9.65	7.51	7.75	74.1	29.74	11.7	4" pvc pipe discharging from adjacent retention pond
19-OUGA Carpenter Creek									
Date	Time	Temp ©	DO (mg/L)	pH	pH2	Cond (uS/cm)	Pressure (in Hg)	Discharge (cfs)	Notes
1/21/2015	1015	4.5	11.88	6.51	6.34	208.2	29.84	10.3	
2/19/2015	930	8.2	10.89	6.45	6.3	230.4	29.76	7.4	
2/19/2015	930	8	11.59	6.49	6.42	228.3	29.78		Duplicate
3/25/2015	1130	9.4	11.16	6.83	6.85	216.6	29.71	10.6	Rebar destroyed by mowing
20-OUGA Willard Creek									
Date	Time	Temp ©	DO (mg/L)	pH	pH2	Cond (uS/cm)	Pressure (in Hg)	Discharge (cfs)	Notes
1/22/2015	930	7	9.32	6.93	6.91	108.2	29.81	2.7	1.72 ft
2/18/2015	1030	7.5	9.44	7.72	7.83	113.1	29.73	2.0	1.31'
3/26/2015	1000	9.8	9.53	7.5	7.46	86.6	29.74	6.9	Rebar gone
27-OUGA Thomas Creek									
Date	Time	Temp ©	DO (mg/L)	pH	pH2	Cond (uS/cm)	Pressure (in Hg)	Discharge (cfs)	Notes
1/22/2015	1115	5.8	12.15	7.22	7.24	73.6	29.7	7.9	9 5/8"
2/18/2015	1200	6.5	12.14	6.8	6.65	74.2	29.57	7.4	
4/2/2015	1000	8.8	11.43	6.72	6.75	69.9	29.76	4.5	
44-OUGA Campbell Lake Creek									
Date	Time	Temp ©	DO (mg/L)	pH	pH2	Cond (uS/cm)	Pressure (in Hg)	Discharge (cfs)	Notes
1/21/2015	1230	5.2	11.3	6.73	6.74	242.5	29.78	9.4	
2/19/2015	1430	9.7	9.75	6.62	6.61	232.9	29.73	8.1	
3/25/2015	1330	11	10.15	6.98	6.95	240.2	29.68	5.5	
45-WUGA Maddox Creek									
Date	Time	Temp ©	DO (mg/L)	pH	pH2	Cond (uS/cm)	Pressure (in Hg)	Discharge (cfs)	Notes
2/19/2015	1045	8.3	11.16	6.75	6.63	162.3	29.78	2.6	
3/25/2015	1000	9	10.8	6.18	6.4	159.4	29.65	3.2	

Notes: A flow meter was used for discharge measurement at all sites in March (including the April 2 sampling at 27-OUGA), and at site 44-OUGA in January. Due to a malfunctioning field flow computer, all other discharges were measured using the neutral buoyant object method.