

Project Name/Location:

Contract Number: W9127N-05-C-0012

Columbia River Channel Improvement - RM 16+10 to 17+30.

Date: 10/14/2005

Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
Load Number	DR-1	22.1	9:07:20	7367873.50	943908.40	2.6	
987	DR-3	21.8	9:09:37	7368491.07	944345.55	7.2	
Tidal Stage	DR-3R1	22.6	9:09:42	7368491.32	944351.62	5.6	
Flood	DR-2	20.9	9:12:17	7368858.94	943734.37	12.7	8.7
Dredge State:	DR-2R1	20.7	9:12:21	7368863.16	943734.20	9.6	8.5
Overflow through	DR-4	20.1	9:14:07	7369487.18	943915.61	15.7	
skimmers only	DR-4R1	20.4	9:14:11	7369487.18	943915.61	13.0	
Weather:							
Clear							
Wind:							
0-5 kts							
Seas:							
0-1'							
Disposal location							
Columbia River DWS							

Remarks:	Action Taken:
DR-2 exceeded 10% over background, taken in the plume.	Re-test DR-2R1 was taken.
DR-4 exceeded 10% over background, taken in the plume.	Re-test DR-4R1 was taken.
DR-3 exceeded 10% over background, taken out of plume on starboard side.	Re-test DR-3R1 was taken.
	The dredge moved away from the area while continuing dredging to avoid further increasing the turbidity at the location where the exceedence was measured. The dredge coordinates were marked on the GPS screen to insure no further dredging occurred at the location where the exceedence was measured.

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel		
DR-2	100' Down Current	OR	OR, WA
DR-3	300' Radially from point of dredge (Port or Starboard)	WA	Not Required
DR-4	900' Down Current from point of dredging	WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		

Project Name/Location:

Contract Number: W9127N-05-C-0012

Columbia River Channel Improvement - RM 19+00 to 21+20

Date: 10/14/2005

Dredging <u>Load Number</u> 988 <u>Tidal Stage</u> Ebb <u>Dredge State:</u> Overflow through skimmers only <u>Weather:</u> Overcast, rainy <u>Wind:</u> 0-5 kts <u>Seas:</u> 1-2' <u>Disposal location</u> Columbia River RM 17.5 & 18.8	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
	DR-1	20.1	14:34:35	7382496.94	949959.78	2.5	
	DR-2	20.2	14:36:24	7381831.46	949578.90	21.0	9.2
	DR-2R1	20.0	14:36:30	7381823.03	949579.24	15.9	9.0
	DR-4	20.4	14:38:56	7381562.97	949516.68	14.3	
	DR-4R1	21.0	14:38:59	7381562.97	949516.68	12.4	
	DR-3	20.8	14:41:36	7382562.29	950115.33	1.6	

Remarks:	Action Taken:
DR-2 exceeded 10% over background, taken in the plume.	Re-test DR-2R1 was taken.
DR-4 exceeded 10% over background, taken in the plume.	Re-test DR-4R1 was taken.
DR-3 taken out of the plume on port side	
	The dredge moved away from the area while continuing dredging to avoid further increasing the turbidity at the location where the exceedence was measured. The dredge coordinates were marked on the GPS screen to insure no further dredging occurred at the location where the exceedence was measured.

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel	OR WA WA	OR, WA Not Required Not Required
DR-2	100' Down Current		
DR-3	300' Radially from point of dredge (Port or Starboard)		
DR-4	900' Down Current from point of dredging		
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		

Project Name/Location:

Contract Number: W9127N-05-C-0012

Columbia River Channel Improvement - RM 19+00 to 21+20

Date: 10/14/2005

Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
Load Number	DR-1	20.4	16:38:21	7381392.58	949584.36	4.1	
990	DR-2	20.4	16:42:02	7380853.59	949095.01	26.5	9.5
Tidal Stage	DR-2R1	20.4	16:42:06	7380840.45	949083.37	22.6	9.6
Ebb	DR-4	20.8	16:43:23	7380246.51	948803.08	22.2	
Dredge State:	DR-4R1	20.6	16:43:28	7380225.19	948797.86	17.9	
Overflow through skimmers only	DR-3	20.1	16:45:46	7381506.64	949585.86	19.5	
	DR-3R1	19.4	16:45:51	7381498.45	949592.27	15.6	
Weather:							
Overcast, rainy							
Wind:							
5-10 kts							
Seas:							
2-3'							
Disposal location							
Columbia River RM 17.5 & 18.8							

Remarks:	Action Taken:
DR-2 exceeded 10% over background, taken in the plume.	Re-test DR-2R1 was taken.
DR-4 exceeded 10% over background, taken in the plume.	Re-test DR-4R1 was taken.
DR-3 exceeded 10% over background, taken out of plume on port side.	Re-test DR-3R1 was taken.
	The dredge moved away from the area while continuing dredging to avoid further increasing the turbidity at the location where the exceedence was measured. The dredge coordinates were marked on the GPS screen to insure no further dredging occurred at the location where the exceedence was measured.

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DR-1	Background - 100' Up Current, Within 600-Foot of Channel		
DR-2	100' Down Current	OR	OR, WA
DR-3	300' Radially from point of dredge (Port or Starboard)	WA	Not Required
DR-4	900' Down Current from point of dredging	WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		

Project Name/Location:

Contract Number: W9127N-05-C-0012

Columbia River Channel Improvement - RM 19+00 to 21+20

Date: 10/14/2005

Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
Load Number	DSP-1	19.6	15:09:38	7378420.73	947398.33	2.5	
988	DSP-2	20.5	15:15:07	7378308.32	947542.78	3.0	9.1
Tidal Stage	DSP-2R1	20.4	15:15:10	7378308.57	947548.86	3.1	9.1
Ebb	DSP-4	19.1	15:16:19	7377867.98	947408.45	2.2	
Dredge State:	DSP-3	17.7	15:18:24	7379494.86	948066.82	2.1	
Split Hull							
Weather:							
Overcast, rainy							
Wind:							
0-5 kts							
Seas:							
1'-2'							
Disposal location							
Columbia River RM 18.8							

Remarks:	Action Taken:
DSP-2 exceeded 10% over background, taken in the plume.	Re-test DSP-2R1 was taken.
DSP-3 taken out of the plume, on port side	
	The dredge moved away from the area while continuing dredging to avoid further increasing the turbidity at the location where the exceedence was measured. The dredge coordinates were marked on the GPS screen to insure no further dredging occurred at the location where the exceedence was measured.

Sample Point Key	All Tests Conducted With YSI 6600	Turbidity Compliance	DO Compliance
DSP-1	Background - 100' Up Current, Within 600-Foot of Channel		
DSP-2	100' Down Current	OR	OR, WA
DSP-3	150' Radially from point of dredge (Port or Starboard)	WA	Not Required
DSP-4	900' Down Current from point of dredging	WA	Not Required
Rx	Indicates a Re-Test where (x) is the Re-Test number for that particular point		