

Project Name/Location:

Contract Number: W9127N-05-C-0012

Columbia River Channel Improvement - RM 95+00-104+20.

Date: 11/28/2005

<p>Dredging <u>Load Number</u> 1432 <u>Tidal Stage</u> Ebb <u>Dredge State:</u> Overflow through skimmers only <u>Weather:</u> Overcast <u>Wind:</u> 0-5 kts <u>Seas:</u> 0-1' <u>Disposal location</u> Columbia River RM 101</p>	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
	DR-1	20.5	7:39:49	7634044.97	727082.21	1.4	
	DR-2	19.6	7:41:40	7633670.65	727426.86	15.5	13.2
	DR-2R1	19.6	7:41:42	7633666.56	727433.06	14.9	13.2
	DR-4	19.4	7:43:37	7633151.38	727617.46	11.4	
	DR-4R1	19.2	7:43:41	7633142.86	727617.70	8.5	
	DR-3	20.2	7:46:49	7634197.29	726883.48	1.4	

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 plume, on starboard 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		

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Disposal Load Number	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
1432	DSP-1	20.2	8:47:29	7622990.61	735268.07	1.3	
<u>Tidal Stage</u> Ebb	DSP-2	19.2	8:58:31	7622707.61	734905.16	16.6	13.2
<u>Dredge State:</u> Split Hull	DSP-2R1	19.3	8:58:36	7622707.61	734905.16	10.9	13.4
<u>Weather:</u> Overcast	DSP-3	19.2	8:59:48	7623084.16	734651.42	14.5	
<u>Wind:</u> 0-5 kts	DSP-3R1	19.3	8:59:51	7623088.59	734657.38	14.0	
<u>Seas:</u> 0-1'	DSP-4	20.3	9:01:30	7622493.95	735342.80	1.8	
<u>Disposal location</u> Columbia River RM 101	DSP-4R1	20.3	9:01:33	7622493.95	735342.80	1.8	

Remarks:	Action Taken:
DSP-2 exceeded 10% over background, taken in the plume.	Re-test DSP-2R1 was taken.
DSP-4 exceeded 10% over background, taken in the plume.	Re-test DSP-4R1 was taken.
DSP-3 exceeded 10% over background, taken out of plume on port side.	Re-test DSP-3R1 was taken.
	The disposal ended and the dredge moved away from the area.

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		

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Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
Load Number 1433	DR-1	20.2	9:54:52	7634980.72	726527.60	1.5	
Tidal Stage Ebb	DR-2	19.7	9:56:13	7634619.07	727023.87	20.8	13.2
Dredge State:	DR-2R1	19.7	9:56:15	7634614.81	727023.99	20.2	13.2
Overflow through skimmers only	DR-4	20.1	9:57:30	7634094.26	727324.02	1.2	
Weather: Overcast	DR-3	19.8	9:59:49	7635094.94	726494.07	1.0	
Wind: 5-10 kts							
Seas: 0-1'							
Disposal location Columbia River RM 101							
Remarks:				Action Taken:			
DR-2 exceeded 10% over background, taken in the plume.				Re-test DR-2R1 was taken.			
DR-4 taken in the plume.							
DR-3 taken out of plume, on starboard 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						

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Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
Load Number 1434	DR-1	20.2	11:48:50	7634004.86	727174.50	1.7	
Tidal Stage Ebb	DR-2	19.5	11:49:54	7633849.95	727434.09	13.7	13.2
Dredge State: Overflow through skimmers only	DR-2R1	19.6	11:49:56	7633841.43	727434.32	13.0	13.2
Weather: Overcast	DR-4	19.4	11:51:41	7633251.65	727851.79	2.4	
Wind: 10-15 kts	DR-4R1	19.4	11:51:44	7633247.39	727851.91	2.4	
Seas: 0-1'	DR-3	19.4	11:54:43	7634631.20	726689.18	10.8	
Disposal location Columbia River RM 101	DR-3R1	19.6	11:54:46	7634626.93	726689.30	8.6	
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 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					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						

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Dredging Load Number 1434 Tidal Stage Ebb Dredge State: Overflow through skimmers only Weather: Overcast Wind: 10-15 kts Seas: 0-1' Disposal location Columbia River RM 101	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
	DR-1	19.3	13:22:28	7633918.38	727596.35	0.9	
	DR-3	20.2	13:24:15	7634278.49	727665.48	1.3	
	DR-3R1	20.2	13:24:18	7634278.49	727665.48	1.3	
	DR-2	19.3	13:25:10	7634192.52	727485.46	12.3	13.2
	DR-2R1	19.5	13:25:14	7634188.26	727485.58	10.9	13.2
	DR-4	19.8	13:27:04	7634630.17	727272.82	0.9	

Remarks:	Action Taken:
DR-2 exceeded 10% over background, taken in the plume.	Re-test DR-2R1 was taken.
DR-3 exceeded 10% over background, taken out of plume on port side.	Re-test DR-3R1 was taken.
A second test was taken on this load because dredging cycle lasted more than 2 hours.	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		

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Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
Load Number 1435	DR-1	20.4	14:33:52	7633773.17	727278.14	1.1	
Tidal Stage Ebb	DR-3	19.9	14:35:47	7633273.12	727857.28	0.8	
Dredge State:	DR-2	19.3	14:37:22	7633185.97	727634.75	4.8	13.1
Overflow through skimmers only	DR-2R1	19.4	14:37:25	7633190.40	727640.70	4.7	13.1
Weather: Partly Cloudy	DR-4	19.2	14:39:00	7632620.17	727838.80	12.2	
Wind: 0-5 kts	DR-4R1	19.2	14:39:03	7632620.17	727838.80	11.8	
Seas: 0-1'							
Disposal location Columbia River RM 101							

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 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		
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		