

Project Name/Location:

Contract Number: W9127N-05-C-0012

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

Date: 11/26/2005

Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
Load Number 1411	DR-1	21.2	7:21:35	7636636.85	725491.28	1.6	
Tidal Stage Ebb	DR-2	20.9	7:24:11	7636210.89	725977.12	12.5	13.2
Dredge State: Overflow through skimmers only	DR-2R1	20.9	7:24:14	7636210.89	725977.12	12.1	13.2
Weather: Overcast	DR-4	19.8	7:25:46	7635729.64	726312.51	14.1	
Wind: 0-5 kts	DR-4R1	19.8	7:25:50	7635712.77	726319.06	11.1	
Seas: 0-1'	DR-3	20.3	7:27:38	7636463.56	725392.67	11.1	
Disposal location Columbia River RM 101	DR-3R1	20.3	7:27:42	7636463.56	725392.67	8.2	
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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	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
Disposal	DSP-1	20.2	7:53:25	7622933.54	735056.89	1.8	
Load Number	DSP-2	19.5	8:02:42	7622938.31	734923.01	11.6	13.6
1411	DSP-2R1	19.8	8:02:45	7622934.22	734929.20	11.2	13.6
Tidal Stage	DSP-3	19.5	8:03:46	7623013.62	734720.27	12.9	
Ebb	DSP-3R1	19.3	8:03:49	7623013.62	734720.27	10.1	
Dredge State:	DSP-4	20.2	8:06:21	7622750.72	735530.13	13.3	
Split Hull	DSP-4R1	20.2	8:06:25	7622746.63	735536.33	10.5	
Weather:							
Overcast							
Wind:							
0-5 kts							
Seas:							
0-1'							
Disposal location							
Columbia River RM 101							

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	Re-test DSP-3R1 was taken.
on starboard side.	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 1412	DR-1	21.5	8:47:08	7634883.60	727028.76	2.0	
Tidal Stage Ebb	DR-2	19.3	8:49:17	7634376.51	727042.70	20.7	13.3
Dredge State: Overflow through skimmers only	DR-2R1	20.0	8:49:20	7634367.99	727042.93	17.2	13.2
Weather: Overcast	DR-4	20.5	8:50:32	7633859.40	727312.24	4.4	
Wind: 0-5 kts	DR-4R1	20.5	8:50:35	7633855.13	727312.36	4.2	
Seas: 0-1'	DR-3	20.3	8:52:49	7634868.75	726488.12	13.9	
Disposal location Columbia River RM 101	DR-3R1	20.3	8:52:52	7634868.75	726488.12	11.1	
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						

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Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
Load Number 1413	DR-1	20.7	10:45:51	7634461.31	727180.19	1.9	
Tidal Stage Ebb	DR-2	21.0	10:51:06	7635589.76	726498.73	14.7	13.3
Dredge State: Overflow through skimmers only	DR-2R1	21.0	10:51:08	7635585.49	726498.84	14.2	13.3
Weather: Partly Cloudy	DR-4	20.3	10:52:25	7635236.80	726690.79	1.6	
Wind: 0-5 kts	DR-3	20.8	10:54:41	7636049.72	725853.87	3.3	
Seas: 0-1'	DR-3R1	20.6	10:54:44	7636045.46	725853.99	2.7	
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-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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Date: 11/26/2005

Dredging Load Number 1414 Tidal Stage Ebb Dredge State: Overflow through skimmers only Weather: Partly Cloudy Wind: 0-5 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	19.2	12:43:44	7634284.69	726960.11	1.6	
	DR-3	20.6	12:46:07	7633808.68	727793.90	5.0	
	DR-3R1	20.6	12:46:10	7633808.68	727793.90	4.1	
	DR-2	19.1	12:48:35	7633469.96	727572.21	11.8	13.6
	DR-2R1	19.0	12:48:38	7633469.96	727572.21	11.8	13.4
	DR-4	20.4	12:50:02	7633059.90	727857.07	4.6	
	DR-4R1	20.0	12:50:05	7633055.64	727857.19	4.3	

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	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	DR-1	19.7	14:51:23	7636436.97	726135.07	1.4	
1415	DR-3	20.1	14:53:25	7636002.41	726773.14	16.0	
Tidal Stage	DR-3R1	20.1	14:53:29	7635998.15	726773.26	12.3	
Ebb	DR-2	18.9	14:55:02	7635869.41	726588.33	16.3	13.3
Dredge State:	DR-2R1	19.4	14:55:06	7635873.50	726582.14	12.0	13.2
Overflow through skimmers only	DR-4	20.4	14:57:11	7635217.81	727086.46	3.0	
	DR-4R1	20.4	14:57:14	7635217.81	727086.46	3.4	
Weather:							
Partly Cloudy							
Wind:							
0-5 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 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						

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Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
Load Number	DR-1	20.5	16:32:52	7634723.76	726954.12	1.8	
1416	DR-3	20.3	16:34:58	7633834.16	727635.14	2.1	
Tidal Stage	DR-3R1	20.4	16:35:05	7633834.16	727635.14	2.0	
Ebb	DR-2	19.7	16:36:40	7633793.39	727393.09	12.6	13.1
Dredge State:	DR-2R1	19.7	16:36:43	7633793.39	727393.09	12.1	13.1
Overflow through skimmers only	DR-4	20.4	16:38:16	7633255.15	727669.32	2.6	
	DR-4R1	20.5	16:38:18	7633255.15	727669.32	2.6	
Weather:							
Partly Cloudy							
Wind:							
0-5 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 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						