

Project Name/Location:

Contract Number: W9127N-05-C-0012

Columbia River Channel Improvement - RM 98+00-102+00.

Date: 11/22/2005

Dredging <u>Load Number</u> 1361 <u>Tidal Stage</u> Ebb <u>Dredge State:</u> Overflow through skimmers only <u>Weather:</u> Foggy <u>Wind:</u> 0-5 kts <u>Seas:</u> 0-1' <u>Disposal location</u> Columbia River RM 101	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)

Remarks:	Action Taken:
Did not test this load due to bad weather conditions.	Followed bad weather protocol, dredge continued digging.

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 98+00-102+00.

Date: 11/22/2005

Disposal Load Number 1361 Tidal Stage Ebb Dredge State: Split Hull Weather: Foggy 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)

Remarks:	Action Taken:
Did not test this disposal due to bad weather conditions.	Followed bad weather protocol.

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



Great Lakes Dredge & Dock Company, LLC

Phone Log: Unsafe Environmental Monitoring Conditions

Contact Hierarchy

MCR Recorded Message:	360.642.3565
USCG Watch Stander:	360.642.2382 or Marine Radio Channel 13
Columbia River Bar Pilot (Sea to Astoria)	503.325.2641 or Marine Radio Channel 13
Columbia River Pilot (Astoria to Portland)	503.289.9922 or Marine Radio Channel 13
Lynn Nietfeld	630.258.3909
David Casebeer	214.906.6142
Keith Puro	262.455.5074

Persons Involved

Dredge Captain	Captain Howie Howry
Launch Operator	Dave Paradelas
Water Monitor	Michael Hershey
GLDD Supervisor	Lynn Nietfeld
USACE Staff	
Third Party	Dan Butler dispatcher River Pilots @ 7:18

Location Information

Date	11/22/2005
Load	1361
Crewboat	Rogue River
Test Location	Columbia River RM 98-102

Criteria In Question

Visibility	300ft
Wind	0-5 kts
Wave Height	0-1'
Current	
Precipitation	None
Tide	Ebb

Decision

(Circle One)

Dredge Captain	Safe	<u>Unsafe</u>
Launch Operator	Safe	<u>Unsafe</u>
Third Party	Safe	<u>Unsafe</u>
Action Taken	Dredging Stopped	<u>Dredging Continues</u>

Action Authorized By

Lynn Nietfeld

David Casebeer

Keith Puro

Notes

Dense fog



Great Lakes Dredge & Dock Company, LLC

Phone Log: Unsafe Environmental Monitoring Conditions

Contact Hierarchy

MCR Recorded Message:	360.642.3565
USCG Watch Stander:	360.642.2382 or Marine Radio Channel 13
Columbia River Bar Pilot (Sea to Astoria)	503.325.2641 or Marine Radio Channel 13
Columbia River Pilot (Astoria to Portland)	503.289.9922 or Marine Radio Channel 13
Lynn Nietfeld	630.258.3909
David Casebeer	214.906.6142
Keith Puro	262.455.5074

Persons Involved

Dredge Captain	Captain Howie Howry
Launch Operator	Dave Paradelas
Water Monitor	Michael Hershey
GLDD Supervisor	Lynn Nietfeld
USACE Staff	
Third Party	Ran Butler ; dispatcher River Pilots @ 8:20

Location Information

Date	11/22/2005
Load	1361
Crewboat	Rescue River
Test Location	Columbia River RM 101 Disposal

Criteria In Question

Visibility	100 ft
Wind	0-5 kts
Wave Height	0-1'
Current	
Precipitation	None
Tide	Ebb

Decision

(Circle One)

Dredge Captain	Safe	<u>Unsafe</u>
Launch Operator	Safe	<u>Unsafe</u>
Third Party	Safe	Unsafe
Action Taken	Dredging Stopped	Dredging Continues Disposal
Action Authorized By	<u>Lynn Nietfeld</u>	David Casebeer Keith Puro

Notes

Patches of dense fog at testing location, weather is clear at River Pilots location and they had no pilots in our area.

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Contract Number: W9127N-05-C-0012

Columbia River Channel Improvement - RM 98+00-102+00.

Date: 11/22/2005

Dredging	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
Load Number 1362	DR-1	20.2	9:28:20	7631656.43	727993.05	4.7	
Tidal Stage Ebb	DR-2	20.8	9:29:35	7631378.32	728268.23	24.7	12.8
Dredge State:	DR-2R1	20.7	9:29:39	7631378.32	728268.23	20.5	12.9
Overflow through skimmers only	DR-4	20.4	9:32:47	7631091.26	728373.43	8.1	
Weather: Clear	DR-4R1	20.4	9:32:50	7631091.26	728373.43	8.0	
Wind: 0-5 kts	DR-3	20.9	9:35:53	7632200.70	728245.52	4.7	
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	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: 11/22/2005

Disposal Load Number 1362 Tidal Stage Ebb Dredge State: Split Hull Weather: Clear 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)
	DSP-1	20.6	10:36:28	7622806.09	735224.61	3.7	
	DSP-2	20.0	10:48:38	7622765.72	735912.72	10.4	13.5
	DSP-2R1	20.2	10:48:40	7622765.72	735912.72	10.4	13.5
	DSP-3	19.2	10:49:47	7623042.41	735442.92	13.3	
	DSP-3R1	19.0	10:49:50	7623042.58	735448.99	12.9	
	DSP-4	20.6	10:51:44	7622740.16	735761.45	13.1	
	DSP-4R1	20.6	10:51:47	7622736.07	735767.64	12.7	

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 starboard 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	OR WA WA	OR, WA Not Required Not Required
DSP-2	100' Down Current		
DSP-3	150' Radially from point of dredge (Port or Starboard)		
DSP-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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<p>Dredging <u>Load Number</u> 1363 <u>Tidal Stage</u> Ebb <u>Dredge State:</u> Overflow through skimmers only <u>Weather:</u> Clear <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	19.9	11:23:52	7632834.08	728173.34	3.6	
	DR-2	20.9	11:25:51	7632240.22	728286.98	23.2	13.2
	DR-2R1	20.9	11:25:54	7632236.12	728293.18	23.0	13.2
	DR-4	21.1	11:27:17	7631768.02	728482.40	8.3	
	DR-4R1	20.6	11:27:23	7631755.40	728488.82	6.2	
	DR-3	20.8	11:32:20	7633088.38	727497.61	4.3	
	DR-3R1	20.5	11:32:25	7633088.38	727497.61	4.2	

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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Dredging <u>Load Number</u> 1364 <u>Tidal Stage</u> Ebb <u>Dredge State:</u> Overflow through skimmers only <u>Weather:</u> Clear <u>Wind:</u> 0-5 kts <u>Seas:</u> 0-1' <u>Disposal location</u> Columbia River RM 101	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
	DR-1	21.0	13:01:51	7632577.56	727839.97	4.1	
	DR-3	20.5	13:04:29	7632010.10	727983.29	4.4	
	DR-2	19.8	13:05:42	7631969.53	728367.41	7.9	13.3
	DR-2R1	19.9	13:05:45	7631969.53	728367.41	7.6	13.3
	DR-4	20.9	13:07:34	7631361.49	728584.82	16.3	
	DR-4R1	20.9	13:07:36	7631357.23	728584.93	15.9	
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						

Project Name/Location:

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Date: 11/22/2005

Dredging <u>Load Number</u> 1365 <u>Tidal Stage</u> Ebb <u>Dredge State:</u> Overflow through skimmers only <u>Weather:</u> Clear <u>Wind:</u> 0-5 kts <u>Seas:</u> 0-1' <u>Disposal location</u> Columbia River RM 101	Sample Point	Depth (ft)	Time	X Coordinate	Y Coordinate	Turbidity (NTU)	DO (Mg/L)
	DR-1	20.1	15:24:10	7632224.25	728171.92	4.5	
	DR-3	20.9	15:25:39	7631898.10	728405.85	13.3	
	DR-3R1	21.3	15:25:42	7631893.84	728405.97	12.9	
	DR-2	19.5	15:26:52	7631753.02	728093.74	13.4	13.1
	DR-2R1	19.5	15:26:55	7631753.02	728093.74	13.0	13.0
	DR-4	20.8	15:28:19	7630905.63	728445.43	11.7	
	DR-4R1	20.8	15:28:22	7630901.37	728445.55	10.2	
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 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						