

HIP4

PROJECT COMPLETION FORM

HIP No: 2021083

Project Title:	Wallowa River McDaniel		
Date of Submittal:	5/3/2022		
BPA Project #:	1992-026-01	Contract #:	79905 Rel 5

Project Activity Start and End Dates:

Work Element	Project Activities	Start Date	End Date
B 28	Fish Salvage	7/16/2021	7/29/2022
C 30	Construction of side channels, alcoves, and floodplain	3/5/2021	8/3/2021
D 29	Construction of large wood additions	7/15/2021	8/3/2021
E 40	Construction of riparian fence	8/5/2021	8/25/2021
F 47	Plant vegetation	8/15/2021	11/17/2021

Fish Capture Reporting

The BPA will report the following information for all projects that involve work area isolation with associated fish capture and relocation. When available, provide a tally of ESA-listed salmonids by species (salmon or steelhead) and life stage.

Fish Capture Lead (name, contact info)	Winston Morton, ODFW, 541.962.1837
---	------------------------------------

	Interior Columbia Basin	Lower Columbia (Hood River downstream)	Bull Trout
Captured	Snake River Spring Chinook YOY: 1 O.mykiss (Snake River Summer Steelhead/ Resident Rainbow Trout) 1+: 42	NA	No Bull Trout encountered during salvage.

	Lamprey Amocetes: 11 Other Non- game: 64		
Killed	No mortalities observed.	NA	No Bull Trout encountered during salvage.

Turbidity Reporting

The Project Sponsor shall complete and record the following water quality observations to ensure that any increase in suspended sediment is not exceeding the limit for HIP compliance.

Monitoring Lead (name, contact info)	Winston Morton 541.962.1837
---	------------------------------------

Work Element	Date					
		+4 hrs	+8 hrs	+ 12 hrs	+16 hrs	COMMENTS -- if turbidity was visible at interim checks, how was work modified to reduce turbidity? What special circumstances led to exceedance?
		(Yes/No) for observed difference.				
						Please see attached turbidity log No exceedance events occurred.

Instructions: Establish your visual observation points. First one approximately 100 ft up-stream in undisturbed water. The second one down stream of work site at the following distances from the project area.

- 50 feet in streams that are 30 feet wide or less.
- 100 feet in streams between 30 and 100 feet wide.
- 200 feet in streams greater than 100 feet wide.
- 300 feet for areas subject to tidal or coastal scour.

Upon the start of the project, if the downstream observed turbidity visibly exceeds background levels modify/add BMPs and continue to monitor every 4 hours. If exceedance continues for second monitoring interval (2 intervals in a row, 8 hours) STOP WORK until turbidity resumes to background. Work may resume once turbidity reaches background levels.

Narrative Assessment

Provide a narrative assessment of the project sponsor's success in meeting all HIP requirements. Please include:

- Photos of habitat conditions before, during, and after action completion.



Upstream view of Side-channel 1 prior to construction on 01/26/2021.



Looking downstream at the same reach of Side-channel 1 during construction on 03/29/2021. Channel was dug “in the dry” outside of the in-water work window.



Upstream view of Side-channel 1 on 06/06/2021 during high water from a similar location as the first image.



Upstream view of location where apex LWD structure will be installed on 07/15/2021.



Downstream view of apex LWD during isolation and construction on 07/16/2021.



Downstream view of apex LWD after installation and removal of isolation on 7/16/2021.

- Evidence of compliance with fish screen criteria, for any pump used in fish-bearing waters.

No pumps were used in fish-bearing waters. All dewatering occurred after complete isolation and all fish were salvaged.

- A summary of the results of pollution and erosion control inspections, including any erosion control failure, turbidity in exceedance of HIP standards, contaminant release, and correction effort.

All inspections of erosion control measures were satisfactory. There were no exceedance events. We chose to monitor turbidity every two hours to ensure compliance as baseline conditions presented very low NTU's. Flows were abnormally low during implementation. A turbidity log is attached to this document.

- A description of the post-project condition of any riparian area cleared within 150 feet of Ordinary High Water.

All disturbed areas were mulched, seeded with native riparian species, and planted with native riparian plants. Trees and shrubs removed were salvaged and replanted.

- A description of site restoration completed and future site restoration plans.

All disturbed areas were mulched, seeded with native riparian species, and planted with native riparian plants. Floodplains constructed included the placement of floodplain logs to encourage sediment fallout and decrease water velocities that could cause erosion. Project will be observed for grass and plant survival. If survival doesn't meet targets, supplemental planting will occur. Areas of disturbance will be monitored for invasive weed presence and addressed as necessary.

- A description of any project activities that were not implemented or differ from what was proposed.

All project components were implemented as proposed.

- Any issues that were encountered during implementation or lessons learned.

Make sure upstream irrigators are aware of work. Non-project related upstream withdrawals were stopped for screen maintenance leading to unanticipated flow increases. There were no negative impacts as situation was remedied quickly. This occurred at the end of a workday, and we had partial isolation installed in two location in preparation for the following days work.. If we hadn't of stopped the flow increase, it is likely we would have returned the following morning with issues to address.

Unit ID:
 User ID:
 Site: McD
 Data ID: <None>
 Log Interval: 10

Model	Submodel	S/N	S/W Ver
Handheld	1	17B10151	1.0.35
4P Bulkhead	1	17B10272	1.0.0
CT	1	17A10516	3.0.5
Turbidity	1	17B10040	3.0.0

Date	Time	°C	SPC-uS/cm	C-uS/cm	pH	NH4-N mg/	NO3-N mg/	Cl mg/L	FNU	NTU	TSS mg/L	DEP m
7/14/2021	10:22:47	14.6	282.1	226.2						1.6	1.6	0
7/15/2021	6:44:21	13.8	293.1	230.3						2.6	2.6	0
7/15/2021	6:51:43	13.7	296.6	232.7						3.1	3.1	0
7/15/2021	7:20:26	13.6	296.6	232.1						3.2	3.2	0
7/15/2021	7:21:45	13.6	296.8	232.2						3.9	3.9	0
7/15/2021	9:24:11	13.7	294.4	230.7						2.3	2.3	0
7/15/2021	9:31:10	13.8	296.1	232.6						6	6	0
7/15/2021	11:22:17	14.7	288.8	232.1						1.6	1.6	0
7/15/2021	11:24:09	14.8	289.6	233						2.8	2.8	0
7/15/2021	13:27:19	17	284.8	241.1						2.8	2.8	0
7/15/2021	13:29:34	17	287.9	243.7						7.3	7.3	0
7/15/2021	15:28:23	18.3	278.7	243						2.4	2.4	0
7/15/2021	15:29:22	18.1	283.1	245.7						5.1	5.1	0
7/16/2021	7:54:31	12.8	276.2	211.6						4.8	4.8	0
7/16/2021	7:55:33	12.6	291.8	222.8						3	3	0
7/16/2021	9:54:08	13.2	290.3	225.1						9	9	0
7/16/2021	9:56:07	13.1	289.3	223.6						3.4	3.4	0
7/16/2021	11:55:47	14.8	286.3	230.7						1.8	1.8	0
7/16/2021	11:57:04	14.9	284.2	229.2						2.1	2.1	0
7/16/2021	13:56:41	17.2	276.3	235.1						3.5	3.5	0
7/16/2021	13:58:24	17	279.1	236.5						3.8	3.8	0
7/16/2021	16:16:02	18.3	276.6	241.1						1.8	1.8	0
7/16/2021	16:18:12	18.4	275.7	240.8						5.7	5.7	0
7/20/2021	7:23:12	14	266.9	210.7						4.8	4.8	0
7/20/2021	7:24:08	14.1	288.8	228.6						4.8	4.8	0
7/20/2021	9:02:19	14	294	232.1						1.9	1.9	0
7/20/2021	9:03:33	13.9	290.9	229.2						3.5	3.5	0
7/21/2021	8:04:37	13.2	290.1	224.8						2.7	2.7	0
7/21/2021	8:07:48	13.2	293.1	227.2						3.8	3.8	0
7/21/2021	10:11:28	13.7	290.4	227.9						2.4	2.4	0
7/21/2021	10:19:06	13.8	289.4	227.4						3.3	3.3	0
7/21/2021	12:00:22	15	287.6	232.5						1.9	1.9	0
7/21/2021	12:02:38	15.5	282.9	231.4						3.8	3.8	0
7/21/2021	14:07:39	17	269.3	228.1						2.7	2.7	0
7/21/2021	14:09:21	17	282.5	239.4						2.6	2.6	0
7/22/2021	7:32:50	12.2	288.1	217.8						4.7	4.7	0
7/22/2021	7:33:52	12.2	290	219.3						6.3	6.3	0
7/22/2021	9:40:20	12.7	289.4	221.3						2	2	0
7/22/2021	9:41:47	12.6	290.7	221.9						4	4	0
7/22/2021	11:38:39	14.1	287.9	227.9						2.6	2.6	0
7/22/2021	11:39:39	14.1	288.3	228.4						2.3	2.3	0
7/22/2021	13:33:48	16.2	284	236.1						1.6	1.6	0
7/22/2021	13:35:58	16.2	286.8	238.7						6	6	0
7/22/2021	15:35:35	17.7	285.2	245.5						3.4	3.4	0
7/22/2021	15:36:52	17.7	285.9	245.8						5.7	5.7	0
7/23/2021	8:25:27	11.8	283.8	212.4						3.8	3.8	0
7/23/2021	8:27:24	11.8	286.9	214.4						5.1	5.1	0
7/23/2021	10:38:01	12.9	286.8	220.6						1.8	1.8	0
7/23/2021	10:41:06	12.9	286.1	220.3						3.6	3.6	0
7/23/2021	12:49:28	15.3	283.2	231						1.6	1.6	0

7/23/2021	12:51:42	15.2	284.3	231.3	3	3	0
7/23/2021	14:59:28	17.7	284.5	244.8	1.7	1.7	0
7/23/2021	15:01:19	17.3	283	241.2	5	5	0
7/26/2021	6:44:23	13.8	300.7	236.2	2.7	2.7	0
7/26/2021	6:47:14	13.7	304.1	238.7	3.2	3.2	0
7/26/2021	8:45:59	13.6	302.2	236.6	3	3	0
7/26/2021	8:48:42	13.7	303.1	237.8	2.8	2.8	0
7/26/2021	10:40:36	14.3	297.8	237	2.7	2.7	0
7/26/2021	10:42:52	14.4	298.5	237.9	4.2	4.2	0
7/26/2021	12:42:56	15.1	297.9	241.8	1.7	1.7	0
7/26/2021	12:44:23	15	298.3	241.4	2.3	2.3	0
7/27/2021	6:43:59	14.2	294.8	234.1	2.7	2.7	0
7/27/2021	6:49:39	14.1	304.5	241.2	3.4	3.4	0
7/27/2021	8:42:26	14.2	303.6	241.2	2.3	2.3	0
7/27/2021	8:44:04	14.2	301.3	239	4.4	4.4	0
7/27/2021	10:38:30	14.9	301	242.8	3.9	3.9	0
7/27/2021	10:39:35	14.9	301	242.9	6	6	0
7/27/2021	12:48:23	15.6	291.6	239.3	5	5	0
7/27/2021	12:49:39	15.6	297.6	244.2	4.8	4.8	0
7/29/2021	7:04:11	15	308.4	249.3	2.7	2.7	0
7/29/2021	7:06:10	15	308.6	249.4	3.1	3.1	0
7/29/2021	9:00:07	14.9	306.9	247.6	2.7	2.7	0
7/29/2021	9:00:22	14.9	306.5	247.1	3.7	3.7	0
7/29/2021	9:08:37	15.2	307.2	249.9	2.7	2.7	0
7/29/2021	9:09:34	15.1	306.9	248.8	3.2	3.2	0
7/29/2021	10:48:41	16.2	305	253.6	1.9	1.9	0
7/29/2021	10:49:33	16	304	251.9	3.2	3.2	0