

**ODFW AQUATIC INVENTORY PROJECT
RESTORATION MONITORING
STREAM HABITAT REPORT**

STREAM: WEST FORK SMITH RIVER
 GCG: 4-UMP
 SITE ID: 461
 BASIN: SMITH
 TREATMENT DATE: 2011
 SURVEY DATE: 8/15/2011
 SURVEY CREW: Eric Bailey and Sara DeRischebourg
 USGS MAPS: TWIN SISTERS
 ECOREGION: Mid-Coastal Sedimentary
 REPORT PREPARED BY: Lora Tennant

REACH: 1 LOCATION: T20S-R09W-S12NW

SURVEY DESCRIPTION:

Channel morphology: Constrained by high terraces
 Dominant landuse(s): Second growth timber (15-30 cm dbh)
 Dominant riparian vegetation: Deciduous trees: size class 15-30cm dbh
 Primary channel length (meters) and area (m²): 2,101 : 24,005
 Secondary channel length (meters) and area (m²) 182 : 626
 VWI average: 6.6 VWI Range: 4 - 9 Average Gradient: 1.2%
 Pieces LWD per 100m: 12.0 Wood Volume (m³) per 100m: 8.2
 Percent pools: 81% Complex pools (LWD pieces>=3): 21 Pools >=1m deep: 1
 Percent substrate (avg):

	<u>Silt / organics</u>	<u>Sand</u>	<u>Gravel</u>	<u>Cobble</u>	<u>Boulder</u>	<u>Bedrock</u>
All units	9	12	17	16	17	29
Pool units	8	17	24	19	7	26
Fast water units	8	11	16	16	14	35

SURVEY COMMENTS:

This is a post-treatment (boulders and wood) restoration survey. The crew observed recorded approximately 52 projects within the survey. Beaver activity and rough-skinned newts were observed.

Survey Date: 8/15/2011

Report Date: 6/8/2012

T20S-R09W-S12NW

REACH 1

Valley and Channel Summary

Valley Characteristics (Percent Reach Length)

<u>Narrow Valley Floor</u>		<u>Broad Valley Floor</u>	
Steep V-shape	0%	Constraining Terraces	0%
Moderate V-shape	0%	Multiple Terraces	100%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	6.6	VWI Range:	4 - 9

Channel Morphology (Percent Reach Length)

<u>Constrained</u>		<u>Unconstrained</u>	
Hillslope	0%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	2%	Braided Channel	0%
Alt. Terrace/Hill	98%		
Landuse	0%		

Channel Characteristics

<u>Type</u>	<u>Length (m)</u>	<u>Area (m²)</u>	<u>Dry Units</u>
Primary	2,101	24,005	0
Secondary	182	626	0

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> <i>n</i> = 8	<u>First Terrace</u> <i>n</i> = 8
Width: 9.3	Width: 15.8	19.5 (13.9 - 24.3)	27.2 (20 - 49.5)
Depth: 0.36	Height: 0.7	1.4 (1.1 - 2)	2.4 (1.75 - 3.4)

W:D ratio: 22.8

Stream Flow Type: LF

Average Unit Gradient: 1.2%

Water temperature (°C): 13.5 - 15.0

Entrenchment (ACW:FPW ratio): 1.2

Habitat Units/100m (total channel length): 4.3

Habitat Units/100m (primary channel length): 4.7

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	LT
Riparian Vegetation:	D15	S

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	15%	Reach avg: 80%
Undercut Banks:	8%	Range: 50 - 100

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	252	12.0
Volume (m ³):	171	8.2
Key pieces (>=12m x 0.60m):	0	0.0

Survey Date: 8/16/2011

Report Date: 6/8/2012 T20S-R09W-S12NW

REACH 2

Valley and Channel Summary

Valley Characteristics (Percent Reach Length)

Narrow Valley Floor		Broad Valley Floor	
Steep V-shape	0%	Constraining Terraces	0%
Moderate V-shape	0%	Multiple Terraces	100%
Open V-shape	0%	Wide Floodplain	0%
Valley Width Index	16.0	VWI Range:	16 - 16

Channel Morphology (Percent Reach Length)

Constrained		Unconstrained	
Hillslope	0%	Single Channel	0%
Bedrock	0%	Multiple Channel	0%
Terrace	0%	Braided Channel	0%
Alt. Terrace/Hill	100%		
Landuse	0%		

Channel Characteristics

Type	Length (m)	Area (m ²)	Dry Units
Primary	537	5,700	0
Secondary	82	189	3

Channel Dimensions (m)

<u>Wetted</u>	<u>Active</u>	<u>Floodprone</u> n = 1	<u>First Terrace</u> n = 1
Width: 8.8	Width: 11.2	15.2 (15.2 - 15.2)	18.7 (18.7 - 18.7)
Depth: 0.34	Height: 0.6	1.2 (1.2 - 1.2)	1.6 (1.6 - 1.6)

W:D ratio: 18.7

Entrenchment (ACW:FPW ratio): 1.4

Stream Flow Type: LF

Habitat Units/100m (total channel length): 5.2

Average Unit Gradient: 1.6%

Habitat Units/100m (primary channel length): 6.0

Water temperature (°C): 15.0 - 15.0

Riparian, Bank, and Wood Summary

	<u>Primary</u>	<u>Secondary</u>
Land Use:	ST	LT
Riparian Vegetation:	D30	S

Bank Condition and Shade

<u>Bank Status</u>	<u>Percent Reach Length</u>	<u>Shade (% of 180)</u>
Actively Eroding:	18%	Reach avg: 55%
Undercut Banks:	6%	Range: 39 - 67

Large Wood Debris

	<u>Total</u>	<u>Total / 100m primary channel</u>
All pieces (>=3m x 0.15m):	159	29.6
Volume (m ³):	161	29.9
Key pieces (>=12m x 0.60m):	6	1.1

OREGON DEPT OF FISH AND WILDLIFE
HABITAT INVENTORY

WEST FORK SMITH RIVER
GCG: 4-UMP SITE ID: 461

Survey Date: 8/15/2011

Report Date: 6/8/2012

T20S-R09W-S12NW

REACH 1

HABITAT DETAIL

Habitat Type	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Large Boulders (#>0.5m)	Substrate Percent Wetted Area					
							S/O	Snd	Grvl	Cbl	Bldr	Bdrk
CULVERT CROSSING	2	44	3.4	0.43	149	11	0	35	29	10	0	25
POOL-BACKWATER	7	53	2.8	0.19	159	11	36	19	18	11	1	15
POOL-DAMMED	16	836	12.7	0.67	10,525	555	13	13	22	18	6	29
POOL-ISOLATED	2	15	3.2	0.30	54	0	49	20	15	15	0	0
POOL-LATERAL SCOUR	23	789	11.2	0.54	9,447	625	4	20	25	20	7	24
RAPID/BEDROCK	6	110	7.7	0.21	855	50	4	2	2	4	2	86
RAPID/BOULDERS	7	130	8.3	0.26	859	319	4	2	2	4	37	51
RIFFLE	9	164	6.0	0.14	1,055	35	17	24	36	22	1	1
RIFFLE W/ POCKETS	3	65	9.5	0.27	659	106	0	12	18	49	18	2
STEP/BEDROCK	4	11	6.7	0.13	88	3	3	0	2	3	1	91
STEP/COBBLE	2	7	10.0	0.13	71	15	0	7	9	80	4	0
STEP/STRUCTURE	18	58	10.8	0.20	711	797	0	1	6	8	60	24
Total:	99	2,282	9.3	0.36	24,631	2,527	Avg: 9	12	17	16	17	29

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m ²)	Percent	Number	(# / 100m ²)
Dammed & BW Pools	25	904	9.2	0.51	10,738	43.60%	566	5.3
Scour Pools	23	789	11.2	0.54	9,447	38.35%	625	6.6
Glides	0	0			0	0.00%	0	0.0
Riffles	12	229	6.9	0.17	1,714	6.96%	141	8.2
Rapids	13	240	8.0	0.24	1,713	6.96%	369	21.5
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	24	77	10.1	0.18	870	3.53%	815	93.7
Dry	0	0			0	0.00%	0	0.0
Culverts	2	44	3.4	0.43	149	0.61%	11	7.4

HABITAT INVENTORY

GCG: 4-UMP SITE ID: 461

Survey Date: 8/16/2011

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T20S-R09W-S12NW

REACH 2

HABITAT DETAIL

Habitat Type	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Total Area (m ²)	Large Boulders (#>0.5m)	Substrate					
							Percent Wetted Area					
							S/O	Snd	Grvl	Cbl	Bldr	Bdrk
POOL-DAMMED	7	291	11.7	0.67	3,550	102	14	17	21	31	1	16
POOL-ISOLATED	2	12	6.5	0.33	106	0	92	5	0	3	0	0
POOL-LATERAL SCOUR	6	162	9.8	0.50	1,628	88	10	15	20	37	6	12
PUDDLED UNIT	3	70	1.1	0.17	83	0	52	13	3	32	0	0
RAPID/BEDROCK	1	19	3.5	0.20	67	0	0	8	8	15	0	69
RIFFLE	1	13	3.7	0.30	48	0	9	9	0	82	0	0
RIFFLE W/ POCKETS	2	31	5.8	0.20	168	55	0	19	38	39	0	4
STEP/BEDROCK	1	1	3.3	0.10	5	0	0	0	20	0	0	80
STEP/COBBLE	2	2	7.1	0.08	17	0	0	8	16	76	0	0
STEP/STRUCTURE	7	18	12.7	0.14	218	369	3	2	4	9	82	0
Total:	32	619	8.8	0.34	5,889	614	Avg: 17	11	14	29	19	11

HABITAT SUMMARY

Habitat Group	Number Units	Total Length (m)	Avg Width (m)	Avg Depth (m)	Wetted Area		Large Boulders	
					(m ²)	Percent	Number	(#/ 100m ²)
Dammed & BW Pools	9	303	10.6	0.59	3,656	62.09%	102	2.8
Scour Pools	6	162	9.8	0.50	1,628	27.65%	88	5.4
Glides	0	0			0	0.00%	0	0.0
Riffles	3	44	5.1	0.23	216	3.66%	55	25.5
Rapids	1	19	3.5	0.20	67	1.13%	0	0.0
Cascades	0	0			0	0.00%	0	0.0
Step/Falls	10	21	10.6	0.13	239	4.06%	369	154.3
Dry	3	70	1.1	0.17	83	1.41%	0	0.0
Culverts	0	0			0	0.00%	0	0.0

OREGON DEPT OF FISH AND WILDLIFE
HABITAT INVENTORY

WEST FORK SMITH RIVER
GCG: 4-UWP SITE ID: 461

Survey Date: 8/15/2011

Report Date: 6/8/2012

T20S-R09W-S12NW

REACH 1

POOL SUMMARY

	<u>Total</u>	Total of all Channel Lengths <u># / Km</u>	Primary Channel Length <u># / Km</u>
All Pools:	48	21.0	22.9
Pools >=1m deep:	1	0.4	0.5
Complex pools (LWD pieces>=3):	21	9.2	10.0
Pool frequency (channel widths/pool):	3.0		
Residual pool depth (avg):	0.42		

OREGON DEPT OF FISH AND WILDLIFE
HABITAT INVENTORY

WEST FORK SMITH RIVER
GCG: 4-UMP SITE ID: 461

Survey Date: 8/16/2011

Report Date: 6/8/2012

T20S-R09W-S12NW

REACH 2

POOL SUMMARY

	<u>Total</u>	Total of all Channel Lengths <u># / Km</u>	Primary Channel Length <u># / Km</u>
All Pools:	15	24.2	27.9
Pools >=1m deep:	2	3.2	3.7
Complex pools (LWD pieces>=3):	9	14.5	16.7
Pool frequency (channel widths/pool):	3.7		
Residual pool depth (avg):	0.43		

Survey Date 8/15/2011

**RIPARIAN ZONE
VEGETATION SUMMARY**

REACH 1

Report Date: 6/8/2012

Summary of Riparian Zone (0-30m) 7 transects

Total hardwoods/1000	906
Total conifers/1000 ft	200
Total conifers >20" dbh/1000 f	26
Total conifers >35" dbh/1000 f	9

Average number of trees in a 5-meter wide band

Diameter class (cm)	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters		Zones 1-3 0-30 meters	
	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood	Conifer	Hardwood
3-15cm	0.0	0.3	0.1	2.1	0.0	0.1	0.1	2.6
15-30cm	0.0	1.1	0.4	1.6	0.6	2.3	1.0	5.0
30-50cm	0.3	3.7	0.6	2.0	0.9	1.0	1.7	6.7
50-90cm	0.3	0.1	0.0	0.3	0.0	0.1	0.3	0.6
>90cm	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0
Total/100m2	0.6	5.3	1.3	6.0	1.4	3.6	1.1	5.0

Canopy closure and ground cover

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Canopy closure	78		70		66	
Shrub cover	53		56		50	
Grass/forb cover	47		44		44	

Predominant landform in each zone

	Zone 1 0-10 meters		Zone 2 10 - 20 meters		Zone 3 20 - 30 meters	
	(%)		(%)		(%)	
Hillslope	21		36		43	
High terrace	79		64		57	
Low terrace	0		0		0	
Floodplain	0		0		0	
Wetland/meadow	0		0		0	
Stream channel	0		0		0	
Roadbed/Railroad	0		0		0	
Riprap	0		0		0	
Surface slope (%)	39		45		48	

Summary of Riparian Zone (0-30m) for all reaches**7 transects****Summary of riparian zone (0-100 feet) extrapolated to 1,000 feet along stream**

Total hardwoods/1000	906
Total conifers/1000 ft	200
Total conifers >20" dbh/1000 f	26
Total conifers >35" dbh/1000 f	9

Average number of trees in a 5-m wide band

Diameter class (cm)	Zones 1-3 <u>0-30 meters</u>	
	<u>Conifer</u>	<u>Hardwood</u>
3-15cm	0.1	2.6
15-30cm	1.0	5.0
30-50cm	1.7	6.7
50-90cm	0.3	0.6
>90cm	0.1	0.0

RIPARIAN ZONE VEGETATION

Reach 1				Reach 1												
Unit	Side	Zone	Surface	Slope	Cover (percent)			Notes	Diameter class (cm)					Notes		
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90			
8	LF	1	HT		70	60	40	Conifer								
								Hardwood		1	2					
8	LF	2	HS	5	70	80	20	Conifer								
								Hardwood	1							
8	LF	3	HS	50	75	80	20	Conifer								
								Hardwood		2		1				
8	RT	1	HS	45	80	20	80	Conifer				2	1			
								Hardwood								
8	RT	2	HT		80	30	70	Conifer							1	
								Hardwood								
8	RT	3	HT		80	40	60	Conifer								
								Hardwood			2					
21	LF	1	HT		80	60	40	Conifer								
								Hardwood					1			
21	LF	2	HT		70	90	10	Conifer	1							
								Hardwood	2	1	2					
21	LF	3	HT		75	90	10	Conifer								
								Hardwood		1						
21	RT	1	HT		85	5	95	Conifer					1			
								Hardwood				1				
21	RT	2	HT		80	5	95	Conifer					3			
								Hardwood	1	1						
21	RT	3	HT		80	10	90	Conifer			3	1				
								Hardwood								
31	LF	1	HS	50	80	5	95	Conifer								
								Hardwood			2					
31	LF	2	HS	70	75	5	95	Conifer								
								Hardwood			4	3				
31	LF	3	HS	85	65	10	90	Conifer								HILLSLOPE/R
								Hardwood			4					D BED
31	RT	1	HT		70	60	40	Conifer								HT
								Hardwood	2			1				TRANSITION
31	RT	2	HT		65	80	20	Conifer			3	1				
								Hardwood				1				
31	RT	3	HT		65	90	10	Conifer			1					
								Hardwood			1					
41	LF	1	HT		75	80	20	Conifer								
								Hardwood				3				
41	LF	2	HT		75	90	10	Conifer								
								Hardwood				3	1			

RIPARIAN ZONE VEGETATION

Reach 1

Reach 1

Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes	
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90		
41	LF	3	HT		75	85	15	Conifer							
								Hardwood	1	2	1				
41	RT	1	HT		65	40	60	Conifer							
								Hardwood							
41	RT	2	HT		80	70	30	Conifer							
								Hardwood	6	4					
41	RT	3	HS	22	80	50	50	Conifer				1		TRANSITION TO HT	
								Hardwood				3			
66	LF	1	HS	23	80	85	15	Conifer							
								Hardwood		1	2				
66	LF	2	HS	15	75	40	60	Conifer							
								Hardwood	4	1	2				
66	LF	3	HS	32	75	10	85	Conifer							
								Hardwood				1			
66	RT	1	HT		80	5	95	Conifer							
								Hardwood					4		
66	RT	2	HT		75	5	95	Conifer							
								Hardwood					2		
66	RT	3	HS	15	75	20	80	Conifer							
								Hardwood		1					
80	LF	1	HT		80	50	50	Conifer							
								Hardwood				6			
80	LF	2	HS	85	75	20	80	Conifer							
								Hardwood							
80	LF	3	HS	85	80	20	80	Conifer							
								Hardwood			2				
80	RT	1	HT		80	90	10	Conifer							
								Hardwood			3	2			
80	RT	2	HT		60	95	5	Conifer							
								Hardwood	1			1			
80	RT	3	HT		20	95	5	Conifer							
								Hardwood							
97	LF	1	HT		80	95	5	Conifer							
								Hardwood			1	2			
97	LF	2	HT		75	90	10	Conifer							
								Hardwood					1		
97	LF	3	HT		50	90	10	Conifer							
								Hardwood			2				
97	RT	1	HT		80	85	15	Conifer							
								Hardwood				3			

RIPARIAN ZONE VEGETATION

Reach 1

Reach 1

Unit	Side	Zone	Surface	Slope	Cover (percent)				Diameter class (cm)					Notes		
					Canopy	Shrub	Grass		3-15	15-30	30-50	50-90	>90			
97	RT	2	HS	52	20	80	20									
97	RT	3	HT		30	10	10				4					80% RB-DIRT, GRV
											1					

OREGON DEPT OF FISH AND WILDLIFE
HABITAT INVENTORY

OREGON PLAN MONITORING SITE
SURVEY DATE: 8/15/2011

COMMENT SUMMARY

MONITORING AREA: 4-UMP SITE ID: 461 STREAM: WEST FORK SMITH RIVER

REACH	UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	1	LP	01	36.5	/TJ	0442228/4855910, T=11C
1	2	RI	11	36.5		ACW=0.8M
1	3	RI	01	65.5	BV	
1	7	RB	00	211.5	BV	
1	8	LP	00	221.5		RIP 1
1	10	LP	00	282.5	HS	HS BLDRS
1	11	SS	00	293.5	HS	H=1.5M; HS-LOGS, BLDRS
1	15	RB	00	414.5	HS	HS-BLDRS
1	16	SS	00	417.5	HS	H=1.2M, HS-BLDRS
1	17	DP	01	502.5	HS	
1	19	RB	00	519.5	HS	HS-BLDRS
1	20	SS	00	523.5	HS	H=0.9M

COMMENT SUMMARY

MONITORING AREA: 4-UMP SITE ID: 461 STREAM: WEST FORK SMITH RIVER

REACH	UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	21	DP	00	559.5		RIP 2; TOP OF UNIT
1	23	LP	00	647.5	HS	HS-LOGS AND BLDRS
1	24	RB	00	655.5	HS	HS
1	25	SS	00	659	HS	
1	28	LP	00	799	BV, HS	HS-NECKLACE
1	29	SS	00	804	HS	HS-BLDRS; H=1.2M
1	31	LP	00	850		RIP 3-TOP OF UNIT
1	33	LP	00	888	HS	
1	34	RB	00	901	HS	HS
1	35	SS	00	907	HS	HS-BLD NECKLACE; H=1.0M
1	40	LP	00	994	CS	
1	41	SR	00	996		H=0.1M

OREGON DEPT OF FISH AND WILDLIFE
HABITAT INVENTORY

OREGON PLAN MONITORING SITE
SURVEY DATE: 8/15/2011

COMMENT SUMMARY

MONITORING AREA: 4-UMP SITE ID: 461 STREAM: WEST FORK SMITH RIVER

REACH	UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	43	SR	00	1032.3		H=0.2M
1	46	LP	00	1202.3	HS	RIP 4
1	48	LP	01	1279.3	TJ/	
1	49	RI	11	1279.3		BEAVER CR
1	51	SS	11	1279.3	HS	H=0.2M
1	52	CC	11	1279.3	CC	
1	53	LP	11	1279.3		
1	54	SR	00	1281.8		SALMON SPAWNNING SIGN
1	55	LP	00	1295.8	BV	
1	56	SC	00	1299.8		H=0.2M
1	57	LP	01	1363.8	HS	
1	59	BW	10	1363.8	HS	

COMMENT SUMMARY

MONITORING AREA: 4-UMP SITE ID: 461 STREAM: WEST FORK SMITH RIVER

REACH	UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	63	SS	00	1381.3	HS, DJ	H=0.6M, HS LOGS, BLDRS
1	65	SS	00	1419.3	HS	H=0.7M; HS BLDRS
1	66	DP	00	1505.3	HS	RIP 6
1	67	SS	00	1507.8	HS	HS-BLDRS
1	68	DP	00	1630.8	HS	HS IN PROGRESS
1	69	RI	00	1642.8	HS	HS IN PROGRESS
1	70	LP	00	1669.8	HS	HS IN PROGRESS
1	71	RI	00	1682.8	HS	HS IN PROGRESS
1	72	LP	00	1691.8	HS	HS IN PROGRESS
1	73	SS	00	1694.3	HS, /SS	H=0.7M
1	75	RP	00	1752.3	HS	
1	76	LP	00	1762.3	HS	

OREGON DEPT OF FISH AND WILDLIFE
HABITAT INVENTORY

OREGON PLAN MONITORING SITE
SURVEY DATE: 8/15/2011

COMMENT SUMMARY

MONITORING AREA: 4-UMP SITE ID: 461 STREAM: WEST FORK SMITH RIVER

REACH	UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	77	SS	00	1764.8	HS,SS	H=0.7M
1	78	DP	01	1790.8	HS	
1	79	BW	10	1790.8		ODFW TAG/
1	80	RP	00	1810.8	HS	RIP 7
1	81	SS	00	1813.8	HS	H=1.1M; HS
1	82	DP	00	1896.8	HS	HS-LOGS AND BLDRS
1	83	RB	00	1904.8	HS	HS-BLDRS
1	84	SS	00	1906.8	HS	H=0.8M
1	85	DP	00	1943.8	HS	
1	86	SS	00	1947.8	HS	H=1.1M
1	88	SR	01	1983.3	CE,TJ	
1	89	RI	11	1983.3		T=12C; ACW=0.7M

OREGON DEPT OF FISH AND WILDLIFE
HABITAT INVENTORY

OREGON PLAN MONITORING SITE
SURVEY DATE: 8/15/2011

COMMENT SUMMARY

MONITORING AREA: 4-UMP SITE ID: 461 STREAM: WEST FORK SMITH RIVER

REACH	UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
1	91	RP	00	2021.3		
1	92	SS	00	2023.8		H=1.2M
1	93	DP	00	2051.8		HS
1	94	SS	00	2052.3	SS,HS	H=0.25M
1	95	DP	00	2057.1	HS	
1	96	SS	00	2057.6	SS,HS	H=0.35M
1	97	DP	01	2100.6		SPAWN SURVEY SIGN; TJ
1	98	CC	11	2100.6	CC/	GOLD CR; ACW=5.5M; T=13C
1	99	RB	11	2100.6	TJ	
2	100	SS	00	2104.6	HS	H=0.9M
2	102	IP	10	2142.6		HS
2	103	SS	00	2143.2	HS	H=0.7M; BLDRS

COMMENT SUMMARY

MONITORING AREA: 4-UMP SITE ID: 461 STREAM: WEST FORK SMITH RIVER

REACH	UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
2	104	DP	00	2188.2	HS	
2	105	SS	00	2192.2	HS	H=0.7M; BLDRS
2	109	SS	00	2244.2	HS	H=1.2M
2	111	SS	00	2289.7	HS	H=1.0M
2	112	DP	00	2317.7	/SS	
2	113	SS	01	2319.2	HS	H=0.8M
2	114	IP	10	2319.2	AM	
2	115	DP	00	2407.2	HS	
2	118	PD	02	2445.6	AM	ACW=4.0M
2	121	PD	02	2513.6		ACW=3.4M
2	122	RP	00	2534.6	HS	
2	123	LP	00	2544.6	HS	

COMMENT SUMMARY

MONITORING AREA: 4-UMP SITE ID: 461 STREAM: WEST FORK SMITH RIVER

REACH	UNIT#	TYPE	CHAN	DIST. (m)	COMMENTS	NOTES
2	124	SS	00	2547.6	HS	H=1.3M; BLDRS
2	129	LP	01	2619	HS,DJ	DJ; HS LOGS
2	130	PD	02	2619		ACW=2.6M
2	131	RR	00	2638		EOS