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## **APPENDIX H**

### **Water and Wetlands**

- Table H-1a Wetlands Affected by the Pipeline (updated May 2018)**
- Table H-1b Summary of Wetland Impacts by Fifth Field/HUC10 Watershed (updated May 2018)**
- Table H-2 High Value Wetlands Affected by the Pipeline**
- Table H-3 Waterbodies Affected by the Pipeline (updated May 2018)**
- Table H-4 Shallow Groundwater Areas Crossed by the Pacific Connector Pipeline Project**
- Table H-5 ODEQ Water Quality Limited Streams Crossed by the Pacific Connector Pipeline**
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TABLE H-1a														
Wetlands Affected by the Pipeline (updated May 2018)														
Wetland ID <u>a/</u> (Waterbody <u>b/</u> )	Milepost	Jurisdiction	Cowardin Classification	Dominant Oregon HGM	Acres Within Pipeline Survey Corridor	Width of Crossing (feet)	Excavated Volume at Crossing <u>j/</u> (cubic yds)	Acres of Construction ROW in Wetland	Acres of Temporary Extra Work Area in Wetland	Acres of Temporary Access Road in Wetland	Total Construction Disturbance in Wetland (acres)	Total Permanent Wetland Vegetation Type Conversion (or fill) (acres)	Wetland Description <u>g/</u>	
<b>Coast Range Ecoregion, Coos Sub-basin (HUC 17100304), Coos Bay-Frontal Pacific Ocean (HUC 1710030403) Fifth field Watershed <u>g/</u>, Coos County, Oregon</b>														
Alt_Wetl_NA	0.00	Private	PFOC	Depressional	0.19	HDD Pullback	-	0.00	0.18	0.00	0.18	0.00	Forested depressional wetland, seasonally flooded.	
Alt_Wetl_NE	0.00	Private	PABH/PUBH	Depressional	0.72	HDD Pullback	-	0.00	0.64	0.00	0.64	0.00	Depressional aquatic bed wetland, unconsolidated shore, permanently flooded.	
J <u>i/</u>	0.14	Private	PEMA	Slope/Flats	0.32	-	-	0.00	<0.01	0.00	<0.01	0.00	Tidally influenced emergent wetland.	
APC-C2	1.16	State	PSS1R	Slope/Flats	0.17	15.01	25.02	0.03	0.00	0.00	0.03	<0.01	Scrub-shrub wetland, broad-leaved deciduous, seasonally flooded, tidally influenced.	
EE-WW-9902	1.201.41	State	PSSC/ PEM1A	Slope/Flats	2.10	228.06(HDD 150.05)	380.10	0.72	0.35	0.00	1.07	0.01	Scrub-shrub wetland, seasonally flooded	
KEN-A1 (NW-117/EE-6A)	3.25	State	PEM1Ad	Slope/Flats	17.09	1916.46	3194.10	3.83	5.28	0.00	9.11	0.00	Emergent wetland, temporarily flooded, partially drained/ditched	
KEN-A2 (NW-117/EE-6A)	3.33	State	PEM1Ad	Slope/Flats	3.52	-	--	0.00	2.89	0.00	2.89	0.00	Emergent wetland, temporarily flooded, partially drained/ditched	
KEN-A1 W1-01 (NW-117/EE-6A) Trib to Coos Bay	6.39R	Private/State	PEM	Slope/Flats	14.75	885.01	1475.02	1.87	9.68	0.00	11.55	0.00	Off-site determination south of Kentuck Slough. Slough sedge and reed canarygrass dominate – includes ditched drainage – Trib to Coos Bay	
KEN-A2 W1-01 (NW-117/EE-6A) Trib to Coos Bay	6.39R	Private/State	PEM	Slope/Flats	2.81	342.06	570.10	0.68	0.57	0.00	1.25	0.00	Emergent wetland	
W1-02	6.47R	Private	PFO	Slope/Flats	0.35	98.08	163.47	0.15	0.00	0.00	0.15	0.07	Spring fed wetland dominated by skunk cabbage.	
W1-04	8.33R	Private	PEM	Depressional	0.77	179.88	299.80	0.36	0.02	0.00	0.38	0.00	Wetland in floodplain of Willanch Slough.	
W-T01-001A-1	8.40R	Private	PEM1E	Slope/Flats	2.64	387.35	645.59	0.82	0.18	0.00	1.00	0.00	Wetland pasture actively grazed by horses.	
WW-100-001	11.01R	Private	PEMA	Slope/Flats	2.96	545.79	909.65	1.13	0.83	0.00	1.96	0.00	Freshwater Emergent Wetland	
WW-222-002	11.26R	Private	PEMAd	Slope/Flats	0.31	42.11	70.18	0.07	0.06	0.00	0.13	0.00	Depressional herbaceous wetland	
WW-500-001	11.39BR	Private	PEMA	Slope/Flat	0.04	21.09	35.15	0.01	<0.01	0.00	0.01	0.00	Small wetland swale w/in ditch in pasture	
BR-W-03	11.74BR12.00BR	Private	PEMA	Slope/Flats	21.07	2651.62	4419.37	5.83	1.64	0.00	7.47	0.00	Wetland associated with Vogel Creek.	
EE-WW-9927	12.12BR	Private	PEM/PSS	Slope/Flats	0.541	-	-	0.08	0.17	0.00	0.25	0.00	Emergent and shrub wetland, temporarily flooded.	
BR-W-04A	15.01BR	Private	PEMA	Slope/Flats	1.83	509.73	849.55	1.07	0.16	<0.01	1.23	0.00	Pasture wetland fed by Trib. to Stock, Slough (Lazxtrom Gulch), temporarily flooded	
BR-W-04B	15.08BR	Private	PEMS	Slope/Flats	1.29	206.05	343.42	0.47	0.40	<0.01	0.87	0.00	Slough (Lazxtrom Gulch), seasonally flooded/saturated	
BR-W-05	15.15BR	Private	PEMS	Slope/Flats	6.99	1049.50	1748.75	2.23	0.97	0.00	3.20	0.00	Pasture wetland fed by Stock Slough, seasonally flooded/saturated	
<b>Total</b>						<b>9,077.8</b>	<b>15,129.27</b>	<b>19.35</b>	<b>24.02</b>	<b>0.00</b>	<b>43.37</b>	<b>0.08</b>		
<b>Coast Range Ecoregion, Coquille Sub-basin (HUC 17100305), North Fork Coquille River (HUC 1710030504) Fifth field Watershed <u>g/</u>, Coos County, Oregon</b>														
WW-500-003	20.99BR	Private	PEM/PSS	Slope/Flats	0.04	-	-	0.00	0.036	0.00	0.036	0.00	Emergent and scrub-shrub wetland	
W-T02-003A-1	22.50	Private	PSS1C	Depressional	1.91	246.16	410.27	0.49	0.35	0.00	0.84	0.06	Approx. 80% of wetland is PEM; with a few patches of PSS comprising the remaining 20%. However, permanent impacts assume 100% PSS.	
NW-40	22.78	Private	PEMC	Slope/Flats	0.17	21.69	36.15	0.05	<0.01	0.00	0.05	0.00	Wetland	
W-T02-002A-1	22.90	Private	PEMC	Depressional	0.26	-	-	0.01	0.01	0.00	0.02	0.00	Pasture wetland actively grazed.	
WW-222-009 (CW-10)	23.38	BLM - Coos Bay District	PFOC	Slope/Flats	0.62	173.67	289.45	0.38	0.00	0.00	0.38	0.12	Red alder dominated low area	
WW-222-005 (BW-134)	27.02	BLM - Coos Bay District	PEMC	Slope/Flats	0.06	-	-	0.03	<0.01	0.00	0.03	0.00	Flat area; intermittent stream outfalls from wetland	
<b>Total</b>						<b>441.52</b>	<b>735.87</b>	<b>0.96</b>	<b>0.39 <u>f/</u></b>	<b>0.00</b>	<b>1.35 <u>f/</u></b>	<b>0.18</b>		

TABLE H-1a

Wetlands Affected by the Pipeline (updated May 2018)

Wetland ID a/ (Waterbody b/)	Milepost	Jurisdiction	Cowardin Classification	Dominant Oregon HGM	Acres Within Pipeline Survey Corridor	Width of Crossing (feet)	Excavated Volume at Crossing j/ (cubic yds)	Acres of Construction ROW in Wetland	Acres of Temporary Extra Work Area in Wetland	Acres of Temporary Access Road in Wetland	Total Construction Disturbance in Wetland (acres)	Total Permanent Vegetation Type Conversion (or fill) (acres)	Wetland Description g/
<b>Coast Range Ecoregion, Coquille Sub-basin (HUC 17100305), East Fork Coquille River (HUC 1710030503) Fifth field Watershed c/, Coos County, Oregon</b>													
BW-72	29.52	Private	PEMC	Slope/Flats	0.85	32.90	54.83	0.23	0.00	0.00	0.23	0.00	Pasture wetland fed by hillside seeps
CW-6	34.45	Private	PEMC	Slope/Flats	0.02	3.56	5.93	0.01	0.00	0.00	0.01	0.00	Similar to CW4, adjacent to Elk Creek
CW-4	34.46	Private	R3SB1H/PEM	Riverine Slope/Flats	<0.01	-	-	<0.01	0.00	0.00	<0.01	0.00	Fringe wetland associated with Elk Creek
<b>Total</b>						<b>36.46</b>	<b>60.76</b>	<b>0.24</b>	<b>0.00</b>	<b>0.00</b>	<b>0.24</b>	<b>0.00</b>	
<b>Coast Range Ecoregion, Coquille Sub-basin (HUC 17100305), Middle Fork Coquille River (HUC 1710030501) Fifth field Watershed c/, Douglas County, Oregon</b>													
WW-222-006 (CW-1)	43.63	Private	R4UB1Cx/PEM	Riverine Slope/Flats	0.01	-	-	<0.01	0.00	0.00	<0.01	0.00	Small wet ditch west of logging road; wetland vegetation
W3-01 (BW-38 (MOD))	46.56	Private	PFO1	Riverine Imp.	0.58	39.41	65.68	0.07	0.00	0.00	0.07	0.03	Riverine impounding wetland adjacent to road, in clearcut
<b>Total</b>						<b>39.41</b>	<b>65.68</b>	<b>0.07</b>	<b>0.00</b>	<b>0.00</b>	<b>0.07</b>	<b>0.03</b>	
<b>Klamath Mountains Ecoregion, Coquille Sub-basin (HUC 17100305), Middle Fork Coquille River (HUC 1710030501) Fifth field Watershed c/, Douglas County, Oregon</b>													
BSP-257 (MOD)	48.27	Private	PSS/R3UB1H	Slope/Flats	0.16	-	-	0.01	0.00	0.00	0.01	0.00	Broad perennial stream with associated wetland.
<b>Total</b>						<b>0.00</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	
<b>Klamath Mountains Ecoregion, South Umpqua Sub-basin (HUC 17100302), Olalla Creek-Lookingglass Cr (HUC 1710030212) Fifth field Watershed c/, Douglas County, Oregon</b>													
BW-164	55.98	Private	PEMC	Slope/Flats	0.03	-	-	<0.01	0.00	0.00	<0.01	0.00	Depressional swale dominated by pennyroyal
DA-15	56.69	Private	PFO	Slope/Flats	3.55	415.80	693.00	0.70	0.30	0.00	1.00	0.29	Access denied - Ash dominated wetland
BW-160	56.75	Private	PFOC	Slope/Flats	0.28	86.55	144.25	0.14	0.13	0.00	0.27	0.06	Adjacent to BW161, separated by a gravel road
W-T02-004A-1 (BW-161)	56.78	Private	PEMC1	Depressional	0.95	326.64	544.40	0.59	0.08	0.00	0.67	0.00	Emergent wetland with scattered ash
BW-162	56.83	Private	PFO/PEMC	Slope/Flats	0.35	28.15	46.92	0.09	0.00	0.00	0.09	0.02	Spring-fed wetland with forested and emergent portions
BW-163	56.97	Private	PEMC	Slope/Flats	2.73	573.75	956.26	1.19	0.13	0.00	1.32	0.00	Continuation of BW162 on east side of driveway
BW-142	57.18	Private	PEMC	Slope/Flats	0.34	143.57	239.28	0.24	0.02	0.00	0.26	0.00	Seep-fed wetland on gentle slope above BW141
BW-141	57.25	Private	PEMC	Slope/Flats	1.10	-	-	0.00	0.02	0.00	0.02	0.00	Depressional area in field, compacted soils
BW-145	57.46	Private	PEMC	Slope/Flats	0.04	-	-	0.03	0.00	0.00	0.03	0.00	Very small swale, connected to BW146
BW-150	58.07	Private	PEMC	Slope/Flats	1.19	87.58	145.97	0.26	0.03	0.00	0.29	0.00	Along edge of corridor, connects to BS151
W4-02 (BW-158 (MOD))	58.42	Private	PEMC	Slope/Flats	1.57	240.51	400.85	0.54	0.05	0.00	0.59	0.00	Low area receives hydrology from irrigation
BW-154	58.98	Private	PEMC	Slope/Flats	1.43	222.59	370.98	0.51	0.05	0.00	0.56	0.00	100' west of BDX153, similar to BW146
BW-130	59.56	Private	PEMC	Slope/Flats	0.04	-	-	0.04	0.00	0.00	0.04	0.00	Small seep wetland at farm road cut and below
BW-127	59.93	Private	PEMC	Slope/Flats	0.99	101.57	169.28	0.22	0.02	0.00	0.24	0.00	Seep-fed subtle swale, connects to BW126; heavily grazed
BW-126	60.01	Private	PEMC	Slope/Flats	0.06	7.04	11.73	0.01	0.00	0.00	0.01	0.00	Swale-like wetland dominated by pennyroyal
<b>Total</b>						<b>2,233.75</b>	<b>3,722.92</b>	<b>4.56</b>	<b>0.83</b>	<b>0.00</b>	<b>5.39</b>	<b>0.37</b>	
<b>Klamath Mountains Ecoregion, South Umpqua Sub-basin (HUC 17100302), Clark Branch-South Umpqua River (HUC 1710030211) Fifth field Watershed c/, Douglas County, Oregon</b>													
BW-229	65.83	Private	PEMC	Slope/Flats	0.01	17.51	29.18	0.01	0.00	0.00	0.01	0.00	Small, emergent wetland near road
WW-004-005	69.25	Private	PEM	Slope/Flats	0.19	20.09	33.48	0.02	0.00	0.00	0.02	0.00	Seep fed wetland in floodplain of stream.
WW-005-002	71.08	Private	PEM	Slope/Flats	0.18	-	-	0.00	0.18	0.00	0.18	0.00	Wetland on hillslope.
WW-501-009	71.18	Private	PEM	Slope/Flats	0.26	130.10	216.83	0.13	0.07	0.00	0.20	0.00	Wetland on hillslope.
WW-005-006	73.6	Private	PEM	Slope/Flats	0.48	82.18	136.97	0.14	<0.01	0.00	0.14	0.00	Wetland in mostly old channel with small PSS component. Narrow part transected by road
<b>Total</b>						<b>249.88</b>	<b>416.46</b>	<b>0.30</b>	<b>0.25</b>	<b>0.00</b>	<b>0.55</b>	<b>0.00</b>	
<b>Klamath Mountains Ecoregion, South Umpqua Sub-basin (HUC 17100302), Myrtle Creek (HUC 1710030210) Fifth field Watershed c/, Douglas County, Oregon</b>													
BW-2	76.69	Private	PEMC	Slope/Flats	0.13	36.47	60.78	0.08	0.05 f/	0.00	0.13	0.00	Wet meadow
BW-258	77.62	Private	PEMC	Slope/Flats	0.46	49.50	82.50	0.08	<0.01 f/	0.00	0.08	0.00	Seep/spring fed wetland
BW-5	77.66	Private	PEMC	Slope/Flats	0.05	46.88	78.13	0.05	0.00	0.00	0.05	0.00	Seep/spring fed wetland
W4-03 (BW-011 (MOD))	78.05	Private	PEMC	Slope/Flats	0.09	63.54	105.90	0.09	0.00	0.00	0.09	0.00	Seep/spring fed wetland

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Wetlands Affected by the Pipeline (updated May 2018)

Wetland ID a/ (Waterbody b/)	Milepost	Jurisdiction	Cowardin Classification	Dominant Oregon HGM	Acres Within Pipeline Survey Corridor	Width of Crossing (feet)	Excavated Volume at Crossing j/ (cubic yds)	Acres of Construction ROW in Wetland	Acres of Temporary Extra Work Area in Wetland	Acres of Temporary Access Road in Wetland	Total Construction Disturbance in Wetland (acres)	Total Permanent Wetland Vegetation Type Conversion (or fill) (acres)	Wetland Description g/
BW-173	81.39	Private	PEMC	Slope/Flats	0.05	-	-	0.03	0.01	0.00	0.04	0.00	Seasonal emergent wetland
<b>Total</b>						<b>196.39</b>	<b>327.31</b>	<b>0.33</b>	<b>0.06</b>	<b>0.00</b>	<b>0.39</b>	<b>0.00</b>	
<b>Klamath Mountains Ecoregion, South Umpqua Sub-basin (HUC 17100302), Days Creek-South Umpqua River (HUC 1710030205) Fifth field Watershed c/, d/, Douglas County, Oregon</b>													
EW-24	84.23	Private	PEMC	Slope/Flats	<0.01	-	-	0.00	<0.01	0.00	<0.01	0.00	Small wetland at base of slope between slope and roadbed
EW-25	84.23	Private	PEMC	Slope/Flats	0.03	-	-	0.00	0.03	0.00	0.03	0.00	Unnamed tributary to Woods Creek with PEM features
EW-26	84.23	Private	PEMC	Slope/Flats	0.01	-	-	0.00	0.01	0.00	0.01	0.00	Small, slightly depressional wetland at base of slope.
BW-239	88.22	Private	PEMC	Slope/Flats	0.13	-	-	<0.01	0.00	0.00	<0.01	0.00	Emergent wetland associated with BSI238
WW-504-012 (AW-197 (MOD))	94.51	Private	PEMC	Slope/Flats	2.03	298.52	497.53	0.60	0.08	0.00	0.68	0.00	Pennyroyal dominated seasonal wetland
WW-502-003 (AW-201 (MOD))	94.65	Private	PEMC	Slope/Flats	0.81	137.79	229.65	0.31	1.03 k/	0.01	1.35 k/	0.00	Grass dominated seasonal wetland in Milo Pipe Yard 2
WW-GM-39	94.66	Private	PSS1C	Depressional	0.40	-	-	0.00	0.40 k/	0.00	0.40 k/	0.00	Depressional wetland, broad-leaved deciduous, seasonally flooded. in Milo Pipe Yard 2
WW-504-013 (AW- 194/AW-195 (MOD))	94.96	Private	PEMC	Slope/Flats	2.15	624.51	1040.85	1.30	0.12	0.00	1.42	0.00	Adjacent and similar to AW194, connects to ASI193
<b>Total</b>						<b>1060.82</b>	<b>1768.03</b>	<b>2.21</b>	<b>1.67</b>	<b>0.01</b>	<b>3.89</b>	<b>0.00</b>	
<b>Klamath Mountains Ecoregion, South Umpqua Sub-basin (HUC 17100302), Upper Cow Creek (HUC 1710030206) Fifth field Watershed c/, Douglas County, Oregon</b>													
WW-003-006 (CW-55)	103.90	Private	PEMC	Slope/Flats	0.98	93.95	156.58	0.21	0.00	0.00	0.21	0.00	Swale-like depression south of centerline
<b>Total</b>						<b>93.95</b>	<b>156.58</b>	<b>0.21</b>	<b>0.00</b>	<b>0.00</b>	<b>0.21</b>	<b>0.00</b>	
<b>Cascades Ecoregion, South Umpqua Sub-basin (HUC 17100302), Upper Cow Creek (HUC 1710030206) Fifth field Watershed c/, Douglas County, Oregon</b>													
WW-111-001 (GW-14 (FS-HF-C))	109.15	Forest Service - Umpqua NF	PSS	Slope/Flats	0.25	36.18	60.30	0.07	0.01	0.00	0.08	0.01	Seep wetland with shrubs, crosses road and continues on. USFS considers this wetland as a perennial stream.
WW-111-001	109.17	Forest Service - Umpqua NF	PSS	Slopes/Flats	0.27	11.03	18.83	0.04	0.04	0.00	0.08	<0.01	Connects to GW-14. Seep wetland on USFS
<b>Total</b>						<b>47.21</b>	<b>79.13</b>	<b>0.11</b>	<b>0.05</b>	<b>0.00</b>	<b>0.16</b>	<b>0.01</b>	
<b>Klamath Mountains Ecoregion, Upper Rogue Sub-basin (HUC 17100307), Upper Cow Creek (HUC 1710030206) Fifth field Watershed c/, Douglas County, Oregon</b>													
WW-111-005 (GW-21 (FS-HF-H))	109.47	Forest Service - Umpqua NF	PEM/R3UB1	Riverine F/T	0.28	-	-	0.01	0.00	0.00	0.01	0.00	Emergent wetland seep, connects to GSP019
<b>Total</b>						<b>0.00</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	
<b>Klamath Mountains Ecoregion, Upper Rogue Sub-basin (HUC 17100307), Trail Creek (HUC 1710030706) Fifth field Watershed c/, Jackson County, Oregon</b>													
AW-204	120.83	Private	PEMC	Slope/Flats	0.35	27.89	46.48	0.05	0.00	0.00	0.05	0.00	Spikerush dominated emergent wetland near Canyon Creek
<b>Total</b>						<b>27.89</b>	<b>46.48</b>	<b>0.05</b>	<b>0.00</b>	<b>0.00</b>	<b>0.05</b>	<b>0.00</b>	
<b>Klamath Mountains Ecoregion, Upper Rogue Sub-basin (HUC 17100307), Shady Cove-Rogue River (HUC 1710030707) Fifth field Watershed c/, Jackson County, Oregon</b>													
AW-278Indian Creek	128.61	Private	PEMC/R3UB3	Slope/Flats	2.19	127.55	212.58	0.28	0.04	0.00	0.32	0.00	Herb wetland/perennial stream; continues as AW-308
AW-309Trib. to Indian Creek	128.89	BLM -Medford District	PEM	Slope/Flats	0.27	30.00	50.00	0.07	0.00	0.00	0.07	0.00	Emergent wetland/stream
<b>Total</b>						<b>157.55</b>	<b>262.58</b>	<b>0.35</b>	<b>0.04</b>	<b>0.00</b>	<b>0.39</b>	<b>0.00</b>	
<b>Klamath Mountains, Upper Rogue Sub-basin (HUC 17100307), Big Butte Creek (HUC 1710030704) Fifth field Watershed c/, Jackson County, Oregon</b>													
WW-201-003a (AW-245 (MOD))	130.81	Private	PSSC	Slope/Flats	0.02	-	-	0.00	0.03	0.00	0.03	0.00	Separated from wetland AW244 by culvert
WW-201-003b (AW-244 (MOD))	130.83	Private	PSSC	Riverine F/T	0.35	93.99	156.65	0.16	0.00	0.00	0.16	0.03	Wetland with small stream running through middle
WW-201-001 (AW-248 (MOD))	131.26	Private	PEMA	Slope/Flats	0.17	56.24	93.73	0.08	0.00	0.00	0.08	0.00	Spring fed wetland on hillside. Slope 3- 5%.
WW-502-002 (W2-02 (MOD))	132.08	Private	PEMA	Depressional	0.30	45.70	76.17	0.10	0.02	0.00	0.12	0.00	Wetland on valley floor, potentially along previous alignment of Neil Creek.
WW-502-001	132.22	Private	PEM1C	Slope/Flats	0.43	138.04	230.07	0.28	0.06	0.00	0.34	0.00	Wetland on hillside connects to W3-05

TABLE H-1a

Wetlands Affected by the Pipeline (updated May 2018)

Wetland ID a/ (Waterbody b/)	Milepost	Jurisdiction	Cowardin Classification	Dominant Oregon HGM	Acres Within Pipeline Survey Corridor	Width of Crossing (feet)	Excavated Volume at Crossing j/ (cubic yds)	Acres of Construction ROW in Wetland	Acres of Temporary Extra Work Area in Wetland	Acres of Temporary Access Road in Wetland	Total Construction Disturbance in Wetland (acres)	Total Permanent Wetland Vegetation Type Conversion (or fill) (acres)	Wetland Description g/
W3-05 (AW-243 (MOD))	132.33 132.47	Private	PEMC	Slope/Flats	4.84	297.66	496.10	0.60	0.44	0.01 h/	1.05	0.00	Wetland bisected by two ditches, connected to AW242 across road
W5-01	132.54	Private	PEMC	Slope/Flats	2.61	290.72	484.53	0.66	0.37	0.00	1.03	0.00	Wetland
W5-02 (AW-242)	132.69	Private	PEMC	Slope/Flats	0.70	66.70	111.17	0.14	0.00	0.00	0.14	0.00	Grazed wet meadow connected to ASP241
R5-02 (AW-264 (MOD))	132.77	Private	PFO	Riverine F/T	0.47	34.15	56.92	0.08	0.00	0.00	0.08	0.02	Wetland with perennial stream running through it
AW-263	133.09	Private	PEMC	Slope/Flats	4.74	497.68	829.47	1.00	0.00	0.00	1.00	0.00	Large, spring fed, slope wetland; continues off site
R5-05 (AW-239)	133.92	Private	PSSC	Slope/Flats	0.24	159.25	265.42	0.18	0.00	0.00	0.18	0.04	Scrub-shrub wetland dominated by spiraea and rose.
<b>Total</b>						<b>1,680.13</b>	<b>2800.23</b>	<b>3.28</b>	<b>0.92</b>	<b>0.01</b>	<b>4.21</b>	<b>0.09</b>	
<b>Klamath Mountains, Upper Rogue Sub-basin (HUC 17100307), Little Butte Creek (HUC 1710030708) Fifth field Watershed c/, Jackson County, Oregon</b>													
WW-GM-33 (ASI-214)	139.15	Private	PEMC/R4UB1C	Riverine F/T	0.16	25.26	42.10	0.05	<0.01	0.00	0.05	0.00	Tributary to Lick Creek with PEM features, seasonally flooded
WW-GM-37	139.17	Private	PEMA	Slope/Flats	0.23	106.18	176.9	0.19	0.00	0.00	0.19	0.00	Emergent wetland, temporarily flooded.
EW-77	141.08	Private	PEMC	Slope/Flats	0.13	-	-	0.00	0.13	0.00	0.13	0.00	Herbaceous wetland at base of Star Lake Reservoir
EW-78 (EW-82)	141.08	Private	PEMC	Slope/Flats	<0.01	-	-	0.00	<0.01	0.00	<0.01	0.00	Herbaceous wetland at base of Star Lake Reservoir.
EW-76	141.08	Private	PEMC	Slope/Flats	0.11	-	-	0.00	0.10	0.00	0.10	0.00	Herbaceous wetland at base of Star Lake Reservoir
EW-33	142.45	Private	PEMC	Slope/Flats	9.89	764.76	1274.60	2.16	0.66	0.00	2.82	0.00	Large PEM complex, associated with floodplain of Salt Creek
EW-35	142.61	Private	PEMC	Slope/Flats	3.67	421.48	702.47	0.92	0.34	0.00	1.26	0.00	Large PEM complex, associated with floodplain of Salt Creek
EW-63	145.55	Private	PEMC/PSSC	Slope/Flats	0.05	1.68	2.80	0.01	0.04	0.00	0.05	<0.01	emergent wetland associated with ESI061
EW-67	145.63	Private	PEMC	Slope/Flats	1.86	266.36	443.93	0.62	0.65	0.04	1.31	0.00	Emergent wetland, associated with surround ditches and ESP-66
<b>Total</b>						<b>1,585.72</b>	<b>2,642.80</b>	<b>3.95</b>	<b>1.92</b>	<b>0.04</b>	<b>5.91</b>	<b>&lt;0.01</b>	
<b>Eastern Cascades Slopes and Foothills Ecoregion, Upper Klamath R. Sub-basin (HUC 18010206), Spencer Creek (HUC 1801020601) Fifth field Watershed c/,d/, Klamath County, Oregon</b>													
WW-001-013 (EW-85)	171.06	Forest Service - Fremont- Winema NF	PFO/PSS	Slope/Flats	1.46	147.34	245.57	0.26	0.00	0.00	0.26	0.10	Wetland swale, culverted under road
WW-201-004	171.60	Private	PFO1A	Slope	0.14	30.93	51.55	0.05	0.02 f/	0.00	0.07	0.02	Forested wetland influenced by spring fed spring (lodgepole pine / spiraea)
WW-502-EW-103 (EW- 103 (MOD))	177.76	Private	PEMC/PSSC	Riverine F/T	0.95	115.67	192.78	0.24	0.00	0.00	0.24	0.03	Seep wetland
WW-203-002	182.50	Private	PEM1C	Depressional	0.36	182.67	304.45	0.30	0.00	0.00	0.30	0.00	Depressional wetland, seasonally inundated
<b>Total</b>						<b>476.61</b>	<b>794.35</b>	<b>0.85</b>	<b>0.02</b>	<b>0.00</b>	<b>0.87</b>	<b>0.15</b>	
<b>Eastern Cascades Slopes and Foothills Ecoregion, Lost River Sub-basin (HUC 18010204), Lake Ewauna-Klamath River (HUC 1801020412) Fifth field Watershed c/, Klamath County, Oregon</b>													
W2-03	191.47	Private	PEMC	Depressional	0.06	3.45	5.75	0.01	0.00	0.00	0.01	0.00	Wetland in roadside ditch.
WW-200-001 (W2-06a)	192.20	Private	PEMC	Slope/Flats	1.71	-	-	0.34	0.28	0.00	0.62	0.00	Wetland edged by man-made dike at north boundary. Actively grazed cow pasture, strongly alkaline soil
WW-200-001 (W2-06b)	192.20	Private	PEMC	Slope/Flats	15.05	843.55	1405.92	2.99	0.24	0.00	3.23	0.00	Actively grazed cow pasture, strongly alkaline soil
AW-65	192.71	Private	PEMC	Slope/Flats	0.82	239.73	399.56	0.62	0.07	0.00	0.69	0.00	Irrigated pasture wetland
WW-200-003	192.80	Private	PEM1C	Slope/Flats	0.11	-	-	0.00	0.09	0.00	0.09	0.00	Actively grazed cow pasture, appears to be shallowly inundated in the spring strongly alkaline soil
AW-66	192.86	Private	PEMC	Slope/Flats	4.85	509.58	849.30	0.98	0.32	0.00	1.30	0.00	Irrigated pasture wetland
WW-200-004 (NW-71)	192.89	Private	PEMC	Slope/Flats	1.21	-	-	0.00	0.16	0.00	0.16	0.00	Irrigated pasture wetland, continues off-site to the south
AW-68	193.03	Private	PEMC	Slope/Flats	2.17	366.18	610.31	0.80	0.16	0.00	0.96	0.00	Pasture wetland within harvested hayfield

TABLE H-1a

Wetlands Affected by the Pipeline (updated May 2018)

Wetland ID a/ (Waterbody b/)	Milepost	Jurisdiction	Cowardin Classification	Dominant Oregon HGM	Acres Within Pipeline Survey Corridor	Width of Crossing (feet)	Excavated Volume at Crossing j/ (cubic yds)	Acres of Construction ROW in Wetland	Acres of Temporary Extra Work Area in Wetland	Acres of Temporary Access Road in Wetland	Total Construction Disturbance in Wetland (acres)	Total Permanent Wetland Vegetation Type Conversion (or fill) (acres)	Wetland Description g/
AW-71	193.17	Private	PEMC	Slope/Flats	0.30	162.46	270.77	0.21	0.06	0.00	0.27	0.00	Slight depression in alfalfa field, similar to AW70
WW-504-014 (NW-72)	193.21	Private	PEMC	Slope/Flats	1.34	-	-	0.00	0.45	0.00	0.45	0.00	Irrigated pasture wetland, continues off-site to the south
AW-70	193.21	Private	PEMC	Slope/Flats	0.01	-	-	0.01	0.00	0.00	0.01	0.00	Pasture wetland within harvested hayfield
WW-504-001 (NW-74)	193.51	Private	PEMC	Slope/Flats	0.86	-	-	0.00	0.23	0.00	0.23	0.00	Irrigated pasture wetland, continues off-site to the south
WW-201-009a (AW-74 & AW-75)	194.50	Private	PEM1A	Flats	0.29	14.08	23.46	0.14	0.01	0.00	0.15	0.00	Extensive flat area with some small, shallow depressions. WW-201-009a, WW-201-009b & WW-201-009c are extensions of WW-201-009.
WW-201-009 (WW-001-00 (ADX-77, AW-76))	194.57	Private	PEMC	Slope/Flats	2.25	451.49	752.48	1.03	1.06	0.00	2.09	0.00	Pasture wetland adjacent to canal
WW-201-009c (WW-504-015 (NW-76))	194.57	Private	PEM/R4UB3x	N/A/Ditch	1.26	-	-	0.00	0.32	0.00	0.32	0.00	Irrigated pasture wetland, continues off-site to the south
WW-201-009c (NDX-77)	194.57	Private	PEMA	Flats	0.19	-	-	0.00	0.03	0.00	0.03	0.00	Wetland hydrologically connected to WW-201-009
WW-201-010 (WW-001-010 (ADX-78))	194.64	Private	PEM	Slope Flats	0.70	42.52	70.86	0.21	0.20	0.00	0.41	0.00	Trapezoidal, <1% gradient irrigation ditch with emergent wetland fringe with strongly alkaline soil
WW-201-010a	194.67	Private	PEM1A	Flats	0.39	-	-	0.00	0.02	0.00	0.02	0.00	Palustrine emergent wetland in pasture along irrigation canal, with strongly alkaline soil
WW-200-006	194.70	Private	PEM1C	Slope/Flats	0.25	-	-	0.00	0.25	0.00	0.25	0.00	Pasture wetland, mostly grazed and heavily compacted due to clay rich soil, with strongly alkaline soil.
NDX-80	194.88	Private	PEM/R4UB3x	N/A/Ditch	0.57	-	-	0.00	0.05	0.00	0.05	0.00	Irrigation ditch with wetland
ADX-81	194.92	Private	PEM/R4UB3x	N/A/Ditch	0.12	-	-	0.00	0.03	0.00	0.03	0.00	<1% gradient, u-shaped drainage ditch, wetland
WW-502-AW-82 (AW-82 (MOD))	194.92	Private	PEMC	Slope/Flats	1.15	194.53	324.21	0.42	0.11	0.00	0.53	0.00	Large wetland swale within hayfield
AW-85	195.14	Private	PEMC	Slope/Flats	0.04	-	-	0.03	0.01	0.00	0.04	0.00	Wetland in hayfield, associated with adjacent ditch
WW-200-007	195.30	Private	-	-	0.32	-	-	0.00	0.29	0.00	0.29	0.00	Pasture wetland, mostly grazed and heavily compacted due to clay rich soil, with strongly alkaline soil.
AW-88	195.34	Private	PEMC	Slope/Flats	7.76	1285.95	2143.25	2.78	0.64	0.00	3.42	0.00	Wetland within hayfield
AW-21	195.45	Private	PEM/R4UB2x	N/A/Ditch	0.01	-	-	<0.01	<0.01	0.00	0.00	0.00	Hydric portion of ditch dug through hydric soils
GDX-1	195.80	Private	PEMA/R4	N/A/Ditch	0.52	45.88	76.46	0.11	0.05	0.00	0.16	0.00	7-8' wide ditch with pasture grass
WW-GM-29	196.62	Private	PEMA	Slope/Flats	1.78	253.48	422.47	0.55	0.40	0.00	0.95	0.00	Irrigated pasture wetland, temporarily flooded
WW-GM-28	196.70	Private	PEMA	Slope/Flats	3.97	529.75	882.92	1.13	0.71	0.00	1.84	0.00	Irrigated pasture wetland, temporarily flooded
AW-37	196.79	Private	PEMAx	N/A/Ditch	0.38	19.46	32.43	0.04	0.00	0.00	0.04	0.00	Wet ditch
NW-91	196.82	Private	PEMC	Slope/Flats	2.59	292.83	488.05	0.55	0.34	0.00	0.89	0.00	Irrigated pasture wetland
DX-GM-7	196.88	Private	PEMKx	N/A/Ditch	0.09	-	-	0.07	0.02	0.00	0.09	0.00	Wet ditch, excavated and artificially flooded.
WW-GM-27	196.94	Private	PEMC	Slope/Flats	6.13	980.41	1634.02	2.00	0.54	0.00	2.54	0.00	Irrigated pasture wetland
DX-GM-6	197.10	Private	PEMKx	N/A/Ditch	0.03	-	-	0.03	0.00	0.00	0.03	0.00	Wet ditch, excavated and artificially flooded
DX-GM-5	197.17	Private	PEMKx	N/A/Ditch	0.02	-	-	0.02	0.00	0.00	0.02	0.00	Wet ditch, excavated and artificially flooded
DX-GM-3	197.28	Private	PEMKx	N/A/Ditch	0.07	-	-	0.01	<0.00	0.00	0.01	0.00	Wet ditch, excavated and artificially flooded
WW-GM-23 (AW-43)	197.80	Private	PEMC	Slope/Flats	7.03	782.81	1304.68	1.56	0.49	0.00	2.05	0.00	Irrigated pasture wetland
AW-152	199.49	Private	PEM/R4UB3x	N/A/Ditch	2.31	HDD (273.07)	-	0.00	0.00	0.00	0.00	0.00	Wet ditch, excavated and artificially flooded.
WW-001-004 (AW-154)	199.54	Private	PEMC	Slope/Flats	0.17	HDD (0.00)	-	0.00	0.00	0.00	0.00	0.00	Emergent wetland seasonally flooded.
WW-001-005 (AW-155)	199.55	Private	PEMC	Slope/Flats	00.35	HDD (49.10)	-	0.00	0.00	0.00	0.00	0.00	Emergent wetland seasonally flooded.
WW-001-006 (AW-156)	199.59	Private	PEMC/R4UB3x	N/A/Ditch	0.7	92.16	153.60	0.00	0.03	0.00	0.03	0.00	HDD Crossing for Klamath River. Similar to AW155, on east side of Highway 97

TABLE H-1a

Wetlands Affected by the Pipeline (updated May 2018)

Wetland ID <sup>a/</sup> (Waterbody <sup>b/</sup> )	Milepost	Jurisdiction	Cowardin Classification	Dominant Oregon HGM	Acres Within Pipeline Survey Corridor	Width of Crossing (feet)	Excavated Volume at Crossing <sup>j/</sup> (cubic yds)	Acres of Construction ROW in Wetland	Acres of Temporary Extra Work Area in Wetland	Acres of Temporary Access Road in Wetland	Total Construction Disturbance in Wetland (acres)	Total Permanent Wetland Vegetation Type Conversion (or fill) (acres)	Wetland Description <sup>g/</sup>
AW-157	199.59	Private	PEMC/R4UB3x	N/A/Ditch	0.30	14.12	23.53	0.01	0.04	0.00	0.05	0.00	Wet ditch associated with AW159
AW-158	199.60	Private	PEMC/R4UB3x	N/A/Ditch	0.04	5.78	9.63	0.01	0.02	0.00	0.03	0.00	Wet ditch associated with AW159
WW-GM-36 (AW-160)	199.78	Private	PEMC/R4UB3x/ PSS	Slope/Flats	14.64	2079.07	3465.12	4.46	7.72	0.00	12.18	0.00	Emergent wetland, seasonally flooded.
WW-001-003 (AW-312)	200.03	Private	PEMC	Slope/Flats	3.35	387.98	646.63	0.88	0.76	0.00	1.64	0.00	Should be labeled BW161
AW-255	200.06	Private	PEMC	Slope/Flats	7.20	755.04	1258.40	1.63	0.42	0.00	2.05	0.00	Irrigated livestock pasture surrounded by lg. Irrigation ditch
WW-001-002 (AW-95)	201.51	Private	PEMC	Slope/Flats	1.60	197.39	328.98	0.49	0.28	0.00	0.77	0.00	Irrigated hay field wetland, similar to AW93
WW-GM-35 (AW-98)	203.94	Private	PEMC	Slope/Flats	0.14	-	-	0.07	0.02	0.00	0.09	0.00	Depressional wetland adjacent to ditch(ADX99)
AW-108	205.11	Private	PEMC	Slope/Flats	4.61	1077.79	1796.32	2.35	0.47	0.00	2.82	0.00	Irrigated pasture
<b>Total</b>						<b>11,627.47</b>	<b>19,379.11</b>	<b>26.54</b>	<b>17.39</b>	<b>0.00</b>	<b>43.93</b>	<b>0.00</b>	
<b>Eastern Cascades Slopes and Foothills Ecoregion, Lost River Sub-basin (HUC 18010204), Mills Creek-Lost River (HUC 1801020409) Fifth field Watershed <sup>g/</sup>, Klamath County, Oregon</b>													
AW-114	207.12	Private	PEM/R4UB3x	Slope/Flats	0.04	Bore (3.93 <sup>e/</sup> )	-	0.01	0.00	0.00	0.01	0.00	Wet portion of drainage ditch
WW-201-015	208.70	Private	PEM1A	Slope/Flats	0.90	36.54	60.90	0.13	0.54	0.00	0.67	0.00	Shallowly inundated wetland in pasture under power lines and north of dairy operation.
AW-127	208.79	Private	PEM/R4UB3x	N/A/Ditch	0.12	Bore (12.60 <sup>e/</sup> )	-	0.03	0.00	0.00	0.03	0.00	Roadside drainage ditch with wetland characteristics
WW-202-005 (WW-003-002)	211.19	Private	PEM1Cx	Slope/Flats	0.05	18.01	30.01	0.05	0.00	0.00	0.05	0.00	Seasonally flooded wetland.
WW-003-001	211.20	Private	PEMC	Slope/Flats	0.09	11.92	19.87	0.02	0.00	0.00	0.02	0.00	Wetland located in lowest part of ditch that runs along south side of private drive.
WW-003-003 (EDX-1)	211.67211. 97	Private	R4UB3Cx\PEM C	Slope/Flats	0.43	-	-	0.00	<0.01	<0.01	<0.01	0.00	Wetland ditch along north side of Cemetery Road. Eventually connects with Lost River via culverts and a ditch. Road improvement – culvert across ditch.
WW-001-001 (EW-86)	212.51	Private	PEMC	Slope/Flats	0.64	91.43	152.38	0.23	0.12	0.00	0.35	0.00	Emergent wetland associated with Lost River
WW-001-001 (EW-87)	212.54	Private	PEMC	Slope/Flats	0.29	-	-	0.01	0.03	0.00	0.04	0.00	Emergent wetland associated with Lost River
AW-292	219.69	Private	PEM/R4UB3C	Riverine/FT	0.05	14.61	24.35	0.02	0.00	0.00	0.02	0.00	Herb wetland
<b>Total</b>						<b>172.51</b>	<b>287.51</b>	<b>0.50</b>	<b>0.69</b>	<b>0.00</b>	<b>1.19</b>	<b>0.00</b>	
<b>Total Wetland Impacts</b>						<b>29,205.07</b>	<b>48,675.07</b>	<b>63.88</b>	<b>48.25</b>	<b>0.06</b>	<b>112.19</b>	<b>0.91</b>	

<sup>a/</sup> Ecology and Environment.2013 – March 2018. Pacific Connector Gas Pipeline Updated Wetland Delineation Report. May 2018. National Hydrography Dataset, Jones and Stokes Field Surveys from 2006, 2007, and 2009, StreamNet, LIDAR photo interpretation, and consultation with BLM and Forest Service.  
<sup>b/</sup> National Hydrography Database and ICF Jones & Stokes or Ecology and Environment Field Surveys.  
<sup>c/</sup> USGS Hydrologic Unit Codes.  
<sup>d/</sup> Key Watershed.  
<sup>e/</sup> Impacts avoided by HDD, Direct Pipe or Conventional Bored Crossing Methods  
<sup>f/</sup> Includes acres of uncleared storage area, hydrostatic test water discharge, and rock source and disposal.  
<sup>g/</sup> ICF Jones & Stokes or Ecology and Environment survey description of wetland and waterbody.  
<sup>h/</sup> Acres of disturbance for associated with culverted crossing of PAR 132.46  
<sup>i/</sup> Wetlands delineated by David Evans and Associates within the Jordan Cove Energy Project (FERC Docket CP13-483-000) associated with the Linerboard Mill Site  
<sup>j/</sup> Excavated volume calculated using 3 feet of cover for wetland crossings, trapezoidal trench, slope = 0.75:1  
<sup>k/</sup> Includes acres within Milo Pipe Yard 2.

TABLE H-1b										
Summary of Wetland Impacts by Fifth Field/HUC10 Watershed (updated May 2018)										
Ecoregion and Sub-basin a/	HUC 10/Fifth field Watershed a/	Approximate Milepost Range b/	Miles Crossed	Cowardin Classification	Width of Crossing (feet)	Acres of Construction ROW in Wetland	Acres of Temporary Extra Work Area in Wetland	Acres of Temporary Access Road in Wetland	Total Construction Disturbance in Wetland (acres)	Total Permanent Wetland Vegetation Type Conversion (or fill) (acres)
Coast Range Ecoregion Coos Subbasin (HUC 17100304)	Coos Bay Frontal (HUC 1710030403)	0.0–20.06	15.37	PEM PSS PFO PAB/PUB Total	8,736.65	19.04	23.13	<0.01	42.17	0.00
					243.07	0.16	0.07	0.00	0.23	0.01
					98.08	0.15	0.18	0.00	0.33	0.07
					0.00	0.00	0.64	0.00	0.64	0.00
					9,077.80	19.35	24.02	0.00	43.37	0.08
Coast Range Ecoregion Coquille Subbasin (HUC 17100305)	North Fork Coquille River (HUC 1710030504)	20.06–28.12	11.47	PEM PSS PFO Total	21.69	0.09	0.04	0.00	0.13	0.00
					246.16	0.49	0.35	0.00	0.84	0.06
					173.67	0.38	0.00	0.00	0.38	0.12
					441.52	0.96	0.39	0.00	1.35	0.18
Coast Range Ecoregion Coquille Subbasin (HUC 17100305)	East Fork Coquille River (HUC 1710030503)	28.12–42.59	9.71	PEM PSS PFO Total	36.46	0.24	0.00	0.00	0.24	0.00
					0.00	0.00	0.00	0.00	0.00	0.00
					0.00	0.00	0.00	0.00	0.00	0.00
					36.46	0.24	0.00	0.00	0.24	0.00
Coast Range Ecoregion Coquille Subbasin (HUC 17100305)	Middle Fork Coquille River (HUC 1710030501)	35.81–47.27	7.45	PEM PSS PFO Total	0.00	<0.01	0.00	0.00	<0.01	0.00
					0.00	0.00	0.00	0.00	0.00	0.00
					39.41	0.07	0.00	0.00	0.07	0.03
					39.41	0.07	0.00	0.00	0.07	0.03
Klamath Mountains Ecoregion Coquille Subbasin (HUC 17100305)	Middle Fork Coquille River (HUC 1710030501)	47.27–53.16	8.32	PEM PSS PFO Total	0.00	0.00	0.00	0.00	0.00	0.00
					0.00	0.01	0.00	0.00	0.01	0.00
					0.00	0.00	0.00	0.00	0.00	0.00
					0.00	0.01	0.00	0.00	0.01	0.00
Klamath Mountains Ecoregion South Umpqua Subbasin (HUC 17100302)	Olalla Creek–Lookingglass Cr (HUC 1710030212)	53.16–62.41	8.83	PEM PSS PFO Total	1703.25	3.63	0.40	0.00	4.04	0.00
					0.00	0.00	0.00	0.00	0.00	0.00
					530.50	0.93	0.43	0.00	1.36	0.37
					2,233.75	4.56	0.83	0.00	5.39	0.37
Klamath Mountains Ecoregion South Umpqua Subbasin (HUC 17100302)	Clarks Branch -South Umpqua River (HUC 1710030211)	62.41–74.24	12.76	PEM PSS PFO Total	249.88	0.30	0.25	0.00	0.55	0.00
					0.00	0.00	0.00	0.00	0.00	0.00
					0.00	0.00	0.00	0.00	0.00	0.00
					249.88	0.30	0.25	0.00	0.55	0.00
Klamath Mountains Ecoregion South Umpqua Subbasin (HUC 17100302)	Myrtle Creek (HUC 1710030210)	74.24–82.71	8.86	PEM PSS PFO Total	196.39	0.33	0.06	0.00	0.39	0.00
					0.00	0.00	0.00	0.00	0.00	0.00
					0.00	0.00	0.00	0.00	0.00	0.00
					196.39	0.33	0.06	0.00	0.39	0.00
Klamath Mountains Ecoregion South Umpqua Subbasin (HUC 17100302)	Days Creek–South Umpqua River (HUC 1710030205)	82.71–102.58	19.16	PEM PSS PFO Total	1060.82	2.21	1.27	0.01	3.49	0.00
					0.00	0.00	0.403	0.00	0.403	0.00
					0.00	0.00	0.00	0.00	0.00	0.00
					1060.82	2.21	1.67	0.01	3.89	0.00
Cascades Ecoregion South Umpqua Subbasin (HUC 17100302)	Upper Cow Creek (HUC 1710030206)	102.58–109.40	2.93	PEM PSS PFO Total	0.00	0.00	0.00	0.00	0.00	0.00
					47.21	0.11	0.05	0.00	0.16	0.01
					0.00	0.00	0.00	0.00	0.00	0.00
					47.21	0.11	0.05	0.00	0.16	0.01
Klamath Mountains South Umpqua Subbasin (HUC 17100302)	Upper Cow Creek (HUC 1710030206)	109.40–111.10	2.34	PEM PSS PFO Total	93.95	0.22	0.00	0.00	0.22	0.00
					0.00	0.00	0.00	0.00	0.00	0.00
					0.00	0.00	0.00	0.00	0.00	0.00
					93.95	0.22	0.00	0.00	0.22	0.00
Klamath Mountains Upper Rogue Subbasin (HUC 17100307)	Trail Creek (HUC 1710030706)	111.10–121.78	10.68	PEM PSS PFO Total	27.89	0.05	0.00	0.00	0.05	0.00
					0.00	0.00	0.00	0.00	0.00	0.00
					0.00	0.00	0.00	0.00	0.00	0.00
					27.89	0.05	0.00	0.00	0.05	0.00
Klamath Mountains Ecoregion Upper Rogue Subbasin (HUC 17100307)	Shady Cove- Rogue River (HUC 1710030707)	121.78–130.09	8.10	PEM PSS PFO Total	157.55	0.35	0.04	0.00	0.39	0.00
					0.00	0.00	0.00	0.00	0.00	0.00
					0.00	0.00	0.00	0.00	0.00	0.00
					157.55	0.35	0.04	0.00	0.39	0.00



TABLE H-1b

Summary of Wetland Impacts by Fifth Field/HUC10 Watershed (updated May 2018)

Ecoregion and Sub-basin <sup>a/</sup>	HUC 10/Fifth field Watershed <sup>a/</sup>	Approximate Milepost Range <sup>b/</sup>	Miles Crossed	Cowardin Classification	Width of Crossing (feet)	Acres of Construction ROW in Wetland	Acres of Temporary Extra Work Area in Wetland	Acres of Temporary Access Road in Wetland	Total Construction Disturbance in Wetland (acres)	Total Permanent Wetland Vegetation Type Conversion (or fill) (acres)
Klamath Mountains Ecoregion Upper Rogue Subbasin (HUC 17100307)	Big Butte Creek (HUC 1710030704)	130.09–135.04	5.09	PEM PSS PFO Total	1,392.74	2.86	0.89	0.01	3.76	0.00
					253.24	0.34	0.03	0.00	0.37	0.07
					34.15	0.08	0.00	0.00	0.08	0.02
					1,680.13	3.28	0.92	0.01	4.21	0.09
Klamath Mountains & Cascades Ecoregion Upper Rogue Subbasin (HUC 17100307)	Little Butte Creek (HUC 1710030708)	135.04–168.00	32.92	PEM PSS PFO Total	1,584.04	3.94	1.88	0.04	5.86	0.00
					1.68	0.01	0.04	0.00	0.05	<0.01
					0.00	0.00	0.00	0.00	0.00	0.00
					1,585.72	3.95	1.92	0.04	5.91	<0.01
Eastern Cascades Slopes and Foothills Ecoregion Upper Klamath R. Subbasin (HUC 18010206)	Spencer Creek (HUC 1801020601)	168.00–183.02	15.13	PEM PSS PFO Total	182.67	0.30	0.00	0.00	0.30	0.00
					115.67	0.24	0.00	0.00	0.24	0.03
					178.27	0.31	0.02	0.00	0.33	0.12
					476.61	0.85	0.02	0.00	0.87	0.15
Eastern Cascades Slopes and Foothills Ecoregion Lost River Subbasin (HUC 18010204)	Lake Ewauna–Klamath River (HUC 1801020412)	188.40–205.64	16.31	PEM PSS PFO Total	11,627.47	26.54	17.39	0.00	43.93	0.00
					0.00	0.00	0.00	0.00	0.00	0.00
					0.00	0.00	0.00	0.00	0.00	0.00
					11,627.47	26.54	17.39	0.00	43.93	0.00
Eastern Cascades Slopes and Foothills Ecoregion Lost River Subbasin (HUC 18010204)	Mills Creek- Lost River (HUC 1801020409)	205.64–228.81	23.00	PEM PSS PFO Total	172.51	0.50	0.69	0.00	1.19	0.00
					0.00	0.00	0.00	0.00	0.00	0.00
					0.00	0.00	0.00	0.00	0.00	0.00
					172.51	0.50	0.69	0.00	1.19	0.00
<b>Total</b>					<b>29,205.07</b>	<b>63.88</b>	<b>48.25</b>	<b>0.06</b>	<b>112.19</b>	<b>0.91</b>

<sup>a/</sup> Subbasin and Fifth Field Watersheds/HUC 10 USGS Hydrologic Unit Codes

<sup>b/</sup> Mileposts overlap between fifth field watersheds when alignment is located on the boundary between two adjacent watersheds.

<sup>c/</sup> Acres within Milo Pipe Yard 2. No permanent wetland vegetation type conversion.

TABLE H-2

High Value Wetlands Affected by the Pipeline

Wetland ID (Waterbody)	Milepost	Jurisdiction	Cowardin Classification	Dominant Oregon HGM	Acres Within Pipeline Survey Corridor	Width of Crossing (feet)	Total Construction Disturbance in Wetland (acres)	Total permanent Wetland Vegetation Type Conversions (or fill) (acres)	High Quality/Value Wetland Justification
<b>Coast Range Ecoregion, Coquille Sub-basin (HUC 17100305), North Fork Coquille River (HUC 1710030504) Fifth field Watershed, Coos County, Oregon</b>									
WW-222-009 (CW010)	23.38	BLM - Coos Bay District	PFOC	Slope/Flats	0.62	173.67	0.38	0.12	Forested slope wetland
<b>Klamath Mountains Ecoregion, Coquille Sub-basin (HUC 17100305), Middle Fork Coquille River (HUC 1710030501) Fifth field Watershed, Douglas County, Oregon</b>									
BSP257 Deep Creek	48.27	BLM - Roseburg District	PSS/R3UB1H	Riverine F/T	0.16	-	0.01	0.00	Perennial stream listed here because it is heavily vegetated with scrub-shrub and may include a wetland fringe.
<b>Klamath Mountains Ecoregion, South Umpqua Sub-basin (HUC 17100302), Olalla Creek-Lookingglass Cr (HUC 1710030212) Fifth field Watershed, Douglas County, Oregon</b>									
BW161	56.78	Private	PEMC	Depressional	0.95	326.64	0.67	0.00	Emergent wetland with scattered ash
BW162	56.83	Private	PFO/PEMC	Slope/Flats	0.35	28.15	0.09	0.02	Forested wetland – headwater
<b>Klamath Mountains Ecoregion, South Umpqua Sub-basin (HUC 17100302), Myrtle Creek (HUC 1710030211) Fifth field Watershed, Douglas County, Oregon</b>									
BW-258	77.62	Private	PEMC	Slope/Flats	0.46	49.50	0.08	0.00	Spring seep wetland that continues off-site
<b>Klamath Mountains Ecoregion, South Umpqua Sub-basin (HUC 17100302), Upper Cow Creek (HUC 1710030206) Fifth field Watershed, Douglas County, Oregon</b>									
WW-111-001	109.15	Federal	PSS	Slope/Flats	0.25	36.18	0.08	0.01	Spring seeps within old growth forest corridor
WW-111-005	109.47	Federal	R3/PEM	Riverine/Flowthrough	0.28	--	0.01	0.00	Emergent wetland seep; connects to GSP019
<b>Cascades Ecoregion, Upper Rogue Sub-basin (HUC 17100307), Rogue River-Shady Cove (HUC 1710030707) Fifth field Watershed, Jackson County, Oregon</b>									
AW-309 Trib. to Indian Creek	128.89	BLM - Medford District	PEM	Slope/Flats	0.27	30.00	0.07	0.00	Emergent wetland/stream
<b>Cascades Ecoregion, Upper Rogue Sub-basin (HUC 17100307), Big Butte Creek (HUC 1710030704) Fifth field Watershed, Jackson County, Oregon</b>									
R5-02 (AW-264 (MOD))	132.77	Private	PFO/R4SB1C	Riverine F/T	0.47	34.15	0.08	0.02	Wetland with perennial stream running through it
AW-263	133.09	Private	PEMC	Slope/Flats	4.74	497.68	1.00	0.00	Large, spring fed, slope wetland; continues off site
<b>Cascades Ecoregion, Upper Rogue Sub-basin (HUC 17100307), Little Butte Creek (HUC 1710030708) Fifth field Watershed, Jackson County, Oregon</b>									
EW-33	142.45	Private	PEMC	Slope/Flats	9.89	764.76	2.82	0.00	Large PEM complex, associated with floodplain of Salt Creek. – irrigated
EW-35	142.61	Private	PEMC	Slope/Flats	3.67	421.48	1.26	0.00	Large PEM complex, associated with floodplain of Salt Creek. - irrigated

TABLE H-2

High Value Wetlands Affected by the Pipeline

Wetland ID (Waterbody)	Milepost	Jurisdiction	Cowardin Classification	Dominant Oregon HGM	Acres Within Pipeline Survey Corridor	Width of Crossing (feet)	Total Construction Disturbance in Wetland (acres)	Total permanent Wetland Vegetation Type Conversions (or fill) (acres)	High Quality/Value Wetland Justification
<b>Eastern Slopes Ecoregion, Upper Klamath R. Sub-basin (HUC 18010206), Spencer Creek (HUC 1801020601) Fifth field Watershed, Klamath County, Oregon</b>									
WW-001-013 (EW-85) Spencer Creek	171.06	Forest Service - Fremont- Winema NF	PFO/PSS	Slope/Flats	1.46	147.34	0.26	0.10	Scrub-shrub wetland swale, associated with Spencer Creek
WW-502-EW-103 (EW-103) Clover Creek	177.76	Private	PEMC/PSSC	Slope/Flats	0.95	115.67	0.24	0.03	Scrub-shrub, seep wetland associated with Clover Creek

TABLE H-3

Waterbodies Affected by the Pipeline (updated May 2018)

Waterbody a/	Approximate Pipeline Milepost	Waterbody ID d/	NHD Waterbody Reach Code e/ / Jurisdiction	Length of Crossing (Feet)	Excavated Volume at Crossing (yds) n/	Acres of Construction ROW in Wetland	Acres of Temporary Extra Work Area in Wetland	Crossing Method <sup>6</sup> Scour Level l/	FERC Classification g/	Cowardin Classification	Stream Type	ODF or NWFP Stream Classification h/,i/	Oregon Department of Environmental Quality Water Quality Limited Streams j/
<b>Coast Range Ecoregion, Coos Sub-basin (HUC 17100304), Coos Bay-Frontal Pacific Ocean (HUC 1710030403) Fifth field Watershed 2, Coos County, Oregon</b>													
Coos Bay Estuary Drain	0.00	Alt Wet NH (West)	17100304006491 State	-	-	0.00	0.00 g/	HDD Pullback Bridge/Span	Major	E2EM E2USN	Estuarine	F	
Coos Bay	0.28 to 1.00	NE-26 WB-T02-001	17100304006491 State	HDD (3750.90)	-	0.00	0.00	HDD	Major	E1UBL, E2USN, E2USP	Estuarine	F	Fecal Coliform/Year-Round – Cat: 5
Coos Bay	1.46-3.02	NE-26 WB-T02-002 W-T02-001D	17100304006491 State	HDD (8170.00)	-	0.00	0.00	HDD	Major	E1UBL, E2USN, E2USP	Estuarine	F	Fecal Coliform/Year-Round – Cat: 5
Ditch Kentuck Slough	3.28	EE-SS-9004 (EE-6)	17100204000767 State	-	-	0.00	0.00 g/	HDD Pullback	Minor	R2UBHx	Perennial	F	
Trib. to Coos Bay	6.39R	S1-01 (EE-6)	17100304000767 Private	6.77	18.05	0.02	0.14	Dry Open-Cut	Minor	PEM	Perennial	F	
Willanch Slough	8.27R	S1-04 (EE-7 (MOD))	17100304001393 Private	23.87	63.65	0.06	0.00	Dry Open-Cut	Intermediate	R2	Perennial	F	Fecal Coliform/Year-Round – Cat: 5 (river mile 0.7-2.8)
Trib. to Willanch Slough	8.46R	S-T01-002 (GDX-30)	Private	8.85	23.61	0.02	0.00	Dry Open-Cut	Intermediate	R4	Intermittent	Unknown	
Trib. to Cooston Channel (Echo Creek)	10.21R	S-T01-003 (SS-100-002)	17100304005045 Private	12.77	34.05	0.03	0.00	Dry Open-Cut	Intermediate	R4	Intermittent	F	Fecal Coliform/Year-Round – Cat: 5
Coos River	11.10R	W-T01-002E-1 (WW-100-001)	17100304000093 State	HDD (36.16)	-	0.05	0.00	HDD	Minor	E2EM	Estuarine	F	Fecal Coliform/Year-Round – Cat: 5
Coos River	11.13R	BSP-119	17100304000093 State	HDD (515.92)	-	0.00	0.00	HDD Level 1 m/	Major	E1UBL	Estuarine	F	Fecal Coliform/Year-Round – Cat: 5
Vogel Creek	11.55BR	SS-100-005 (BR-S-02)	17100304005031 Private	8.72	23.25	0.02	0.06	Dry Open-Cut	Minor	R2UBHx	Perennial	F	
Ditch Trib. to Vogel Creek	11.88BR	BR-S-04	17100304000790 Private	10.13	27.01	0.02	<0.01	Dry Open-Cut	Intermediate	R2UBHx	Ditch	N	
Ditch Trib. to Vogel Creek	12.11BR	BR-S-06	17100304000798 Private	2.09	5.57	<0.01	<0.01	Dry Open-Cut	Minor	R2UBHx	Ditch	N	
Trib. to Stock Slough	13.92BR	EE-SS-9026	17100304015021 Private	-	-	0.00	<0.01	Adjacent to centerline within ROW	NA	R4SBC	Intermittent	N	
Trib. to Stock Slough	14.72BR	BR-S-31	17100304002068 Private	1.37	3.65	<0.01	0.00	Dry Open-Cut	Minor	R4SBC	Intermittent	N	
Stock Slough	15.11BR	BR-S-36	17100304000507 Private	8.38	22.35	0.02	0.04	Dry Open-Cut	Minor	R2UBHx	Intermittent	F	
Trib. To Stock Slough (Laxtrom Gulch)	15.16BR	BR-S-30	17100304000493 Private	-	-	0.00	<0.01	Adjacent to centerline within ROW crossed by PAR 15.07	Minor	R4SBC	Intermittent	F	
Stock Slough	15.32BR	EE-SS-9068	17100304000507 Private	7.22	19.25	0.06	<0.01	Dry Open-Cut	Minor	R4SBC	Intermittent	F	
<b>Coast Range Ecoregion, Coquille Sub-basin (HUC 17100305), North Fork Coquille River (HUC 1710030504) Fifth field Watershed 2, Coos County, Oregon</b>													
Steinnon Creek	20.20BR	SS-500-003 (BR-S-63)	17100305000361 BLM- Coos Bay District	8.05	21.47	0.01	0.00	Dry Open-Cut	Minor	R4SB3	Perennial	F	
Steinnon Creek	24.32BR	BR-S-63	17100305000361 Private	16.35	43.60	0.03	0.00	Dry Open-Cut	Intermediate	R3UBH	Perennial	F	
Ditch	22.72	DA-10X	17100305012102 Private	1.63	4.35	<0.01	<0.01	Dry Open-Cut	Minor	R4SBx	Ditch	N	
North Fork Coquille River	23.06	BSP-207	17100305000339 Private	45.52	121.39	0.08	0.00	Dry Open-Cut Level 1 m/	Intermediate	R2UBH	Perennial	Unknown	Biological Criteria/Year-Round – Cat: 5 Dissolved Oxygen/Year-Round – Cat: 5 (non-spawning) Temperature/Year-Round – Cat: 5 (non-spawning) Habitat Modification – Cat: 4C

TABLE H-3

Waterbodies Affected by the Pipeline (updated May 2018)

Waterbody a/	Approximate Pipeline Milepost	Waterbody ID d/	NHD Waterbody Reach Code e/ / Jurisdiction	Length of Crossing (Feet)	Excavated Volume at Crossing (yds) n/	Acres of Construction ROW in Wetland	Acres of Temporary Extra Work Area in Wetland	Crossing Method <sup>6</sup> Scour Level l/	FERC Classification g/	Cowardin Classification	Stream Type	ODF or NWFP Stream Classification h/,i/	Oregon Department of Environmental Quality Water Quality Limited Streams j/
Trib. to Middle Creek	25.18	S-T02-001 (EE-SS-9073)	17100305012832 Private	3.20	8.53	<0.01	0.00	Dry Open-Cut	Minor	R4SBC	Intermittent	N	
Trib. to Middle Creek	27.01	BSI-137	BLM- Coos Bay District	12.70	33.87	0.01	0.00	Dry Open-Cut	Intermediate	R4SB3C	Intermittent	Unknown	
Trib. to Middle Creek	27.03	BSI-135	BLM- Coos Bay District	-	-	<0.01	0.00	Adjacent to centerline within ROW	NA	R4SB3C	Intermittent	Unknown	
Middle Creek	27.04	BSP-133	17100305000323 BLM- Coos Bay District	48.94	130.51	0.10	0.00	Dry Open-Cut Level 2	Intermediate	R2SB4H	Perennial	F	Temperature/Year-Round– Cat: 5 (non-spawning)
<b>Coast Range Ecoregion, Coquille Sub-basin (HUC 17100305), East Fork Coquille River (HUC 1710030503) Fifth field Watershed 2, Coos County, Oregon</b>													
Trib. To E. Fork Coquille	28.86	BSP-77	17100305002504 Private	14.93	39.81	0.03	0.00	Dry Open-Cut (Streambed – bedrock) Level 1 f/	Intermediate	R3SB1F	Perennial	F	
Trib. To E. Fork Coquille	29.30	BSP-74	17100305002598 Private	8.45	22.53	0.02	0.00	Dry Open-Cut	Minor	R4UB1C	Intermittent	F	
Trib. To E. Fork Coquille	29.47	BSI-76	17100305002647 Private	9.91	26.43	0.01	0.00	Dry Open-Cut (Streambed – bedrock) <sup>6</sup>	Minor	R4SB1C	Intermittent	F	
East Fork Coquille River	29.85	BSP-71	17100305000286 Private	54.55	145.47	0.14	0.00	Dry Open-Cut Level 113	Intermediate	R3OWH	Perennial	F	Temperature/Summer – Cat: 5 Habitat Modification – Cat: 4C
Trib. to E. Fork Coquille	30.22	SS-003-007A	17100305002813 Private	13.21	35.23	0.02	0.00	Dry Open-Cut	Intermediate	R4SBx	Perennial	Unknown	
Trib. to E. Fork Coquille	30.29	SS-003-007B	17100305002813 Private	10.35	27.60	0.02	0.00	Dry Open-Cut	Minor	R4SBx	Perennial	Unknown	
Trib. To E. Fork Coquille	31.64	BSI-70	17100305018097 BLM- Coos Bay District	1.11	2.96	<0.01	<0.01	Dry Open-Cut	Minor	R4UB1C	Intermittent	Unknown	
Elk Creek	32.40	BSP-57	17100305000284 Private	17.62	46.96	0.03	0.00	Dry Open-Cut Level 1 m/	Intermediate	R3RB2H	Perennial	F	Temperature/Year-Round – Cat: 5 (non-spawning)
Trib. To Elk Creek	32.50	S-T01-008 (BSP-55)	17100305003267 Private	10.12	27.00	0.02	0.00	Dry Open-Cut (Streambed – bedrock) f/	Minor	R3SB1H	Perennial	F	
Trib. To Elk Creek	32.56	S-T01-004 SS-100-030)	17100305021871 Private	4.03	10.74	0.01	0.00	Dry Open-Cut	Minor	R4SB1C	Intermittent	N	
Trib. To Elk Creek	33.00	BSP-49	17100305003372 Private	2.34	6.24	0.01	0.00	Dry Open-Cut	Minor	R3SB1C	Perennial	F	
Trib. To Elk Creek	33.02	BSP-50	17100305003372 Private	-	-	<0.01	0.00	Adjacent to centerline within ROW (Streambed – bedrock) f/	NA	R3SB1C	Perennial	F	
South Fork Elk Creek	34.46	CSP-5	17100305000591 Private	17.72	47.25	0.04	0.00	Dry Open-Cut (Streambed – bedrock) Level 2 f/	Intermediate	R3SB1H	Perennial	F	
Trib. To S. Fork Elk Creek	35.51	BSI-251	17100305021783 BLM-Coos Bay District	4.00	10.67	0.01	0.00	Dry Open-Cut	Minor	R4UB1J	Intermittent	Unknown	
<b>Coast Range Ecoregion, Coquille Sub-basin (HUC 17100305), Middle Fork Coquille River (HUC 1710030501) Fifth field Watershed 2, Coos County, Oregon</b>													
Trib. to Big Creek	35.87	BLM-35.87/CSP-2	17100305025781 BLM-Coos Bay District	1.50	4.00	<0.01	<0.01	Dry Open-Cut	Minor	R4SB	Intermittent	Unknown	
Trib. To Big Creek	36.48	BLM 36.48	17100305026477 BLM – Coos Bay District	2.26	6.03	<0.01	0.00	Dry Open-Cut	Minor	R4SB	Intermittent	Unknown	
Trib. To Big Creek	36.54	GSI-25 (BSI-253)	17100305004068 BLM-Coos Bay District	6.02	16.05	0.02	0.00	Dry Open-Cut	Minor	R4UB1J	Intermittent	Unknown	
Trib. To Big Creek	36.85	BLM 36.85	17100305025748 BLM-Coos Bay District	1.50	4.00	<0.01	0.00	Dry Open-Cut	Minor	R4SB	Intermittent	Unknown	

TABLE H-3

Waterbodies Affected by the Pipeline (updated May 2018)

Waterbody a/	Approximate Pipeline Milepost	Waterbody ID d/	NHD Waterbody Reach Code e/ / Jurisdiction	Length of Crossing (Feet)	Excavated Volume at Crossing (yds) n/	Acres of Construction ROW in Wetland	Acres of Temporary Extra Work Area in Wetland	Crossing Method <sup>6</sup> Scour Level l/	FERC Classification g/	Cowardin Classification	Stream Type	ODF or NWFP Stream Classification h/,i/	Oregon Department of Environmental Quality Water Quality Limited Streams j/
Trib. To Big Creek	36.92	BSI-252	17100305004061 BLM-Coos Bay District	2.74	7.31	<0.01	0.00	Dry Open-Cut	Minor	R4UB1J	Intermittent	Unknown	
Trib. to Big Creek	37.32	ESI-19	17100305026126 BLM-Coos Bay District	6.72	17.92	0.01	<0.01	Dry Open-Cut	Minor	R4UB1J	Intermittent	F	
Trib. To Big Creek	37.35	ESP-20	17100305000606 BLM-Coos Bay District	10.97	29.25	0.03	0.00	Dry Open-Cut Level 1 <u>m/</u>	Intermediate	R3UB1H	Perennial	F	
Upper Rock Creek	44.21	BSP-41	17100305000252 Private	26.19	69.84	0.06	0.00	Dry Open-Cut Level 1	Intermediate	R3UB1C	Perennial	F	Temperature/Summer – Cat: 5 (non-spawning) Habitat Modification – Cat: 4C
<b>Klamath Mountains Ecoregion, Coquille Sub-basin (HUC 17100305), Middle Fork Coquille River (HUC 1710030501) Fifth field Watershed 2, Douglas County, Oregon</b>													
Tributary Trib. to Upper Rock Creek	46.56	S3-07 (BW-38)	17100305005585 Private	5.36	14.29	0.01	0.00	Dry Open-Cut	Minor	R2UBH	Perennial	N	
Ditch	48.21	S3-06	Private	4.61	12.29	0.02	<0.01	Dry Open-Cut	Minor	R4SBx	Intermittent	Unknown	
Deep Creek	48.27	BSP-257 (MOD)	17100305005863 BLM-Roseburg District	6.18	16.48	0.02	0.00	Dry Open-Cut	Minor	R3UB1H	Perennial	F	
Kinnan Lake	49.76	EE-WB-8009	17100305000918 Private	-	-	0.00	0.02	Off-Site TEWA Water Source	N/A	L1UBKHh	Lacustrine	F	
Lang Creek Reservoir	49.76	EE-WB-8014	17100305009124 Private	-	-	0.00	<0.01	Off-Site TEWA Water Source	N/A	L1	Lacustrine	F	
Ditch	49.94	BDX-32	Private	-	-	<0.01	0.00	Adjacent to centerline within ROW	NA	R4UB1Cx	Ditch	Unknown	
Ditch	50.02	BDX-31	Private	3.50	9.33	0.01	<0.01	Dry Open-Cut	Minor	R4UB1Cx	Ditch	Unknown	
Middle Fork Coquille River	50.28	BSP-30	17100305000232 Private	27.51	73.36	0.05	0.00	Dry Open-Cut (Streambed – bedrock) Level 1 <u>f/,m/</u>	Intermediate	R2OWH	Perennial	F	Dissolved Oxygen/Year-Round – Cat: 5 E. Coli/Year Round – Cat: 5 Temperature/Summer – Cat: 5 (non-spawning) Habitat Modification – Cat: 4C
Trib. to Middle Fork Coquille	50.45	GDX-36 (BS-66/67)	17100305005874 Private	2.63	7.01	0.01	0.00	Dry Open-Cut	Minor	R4UB3C	Intermittent	N	
Belieu Creek	50.71	GSI-37 (BSP-61)	17100305000706 Private	3.06	8.16	0.01	0.00	Dry Open-Cut	Minor	R3UB3H	Perennial	F	
Trib. to Middle Fork Coquille	51.02	S1-07 (GSI-38)	17100305022784 Private	4.02	10.72	0.01	0.00	Dry Open-Cut	Intermediate	R4SBC	Intermittent	I - Federal Land	
Unnamed Stream	51.71	SS-222-006	Private	-	-	<0.01	<0.01	Adjacent to centerline within ROW	N/A	R4UB	Intermittent	Unknown	
<b>Klamath Mountains Ecoregion, South Umpqua Sub-basin (HUC 17100302), Olalla Creek-Lookingglass Creek (HUC 1710030212) Fifth field Watershed 2, Douglas County, Oregon</b>													
Ben Irving Reservoir-1 Berry Creek	55.81	EE-WB-8010	17100302014774 Private	-	-	0.00	<0.01	Off-Site TEWA Water Source	N/A	L1UBHh	Lake	F	
Ben Irving Reservoir -2	55.81	EE-WW-8002 EE-WB-8011	17100302014774 Private	-	-	0.00	0.06	Off-Site TEWA Water Source	N/A	L1UBHh	Lake	F	
Trib. to Shields Creek	55.90	BSI-202	17100302001821 Private	26.37	70.32	0.08	0.00	Dry Open-Cut Level 1	Intermediate	R4SB3C	Intermittent	Unknown	
Trib. to Shields Creek	55.94	BSI-203	17100302001894 Private	8.03	21.41	0.02	<0.01	Dry Open-Cut	Minor	R4SB3C	Intermittent	Unknown	
Trib. to Shields Creek	56.28	DA-13	17100302044091 Private	1.27	3.39	<0.01	<0.01	Dry Open-Cut	Minor	R4SB	Intermittent	N	
Trib. to Shields Creek	56.34	DA-14	17100302044013 Private	3.68	9.81	0.00	<0.01	Dry Open-Cut	Minor	R4SB	Intermittent	Unknown	
Trib. to Olalla Creek	56.80	S-T02-002	17100302044083 Private	3.41	9.09	0.01	0.01	Dry Open-Cut	Minor	R3SBC	Intermittent	Unknown	

TABLE H-3

Waterbodies Affected by the Pipeline (updated May 2018)

Waterbody a/	Approximate Pipeline Milepost	Waterbody ID d/	NHD Waterbody Reach Code e/ / Jurisdiction	Length of Crossing (Feet)	Excavated Volume at Crossing (yds) n/	Acres of Construction ROW in Wetland	Acres of Temporary Extra Work Area in Wetland	Crossing Method <sup>6</sup> Scour Level l/	FERC Classification g/	Cowardin Classification	Stream Type	ODF or NWFP Stream Classification h/,i/	Oregon Department of Environmental Quality Water Quality Limited Streams j/
Trib. to Olalla Creek	57.11	BSI-140	17100302048489 Private	4.42	11.79	0.01	0.00	Dry Open-Cut (Streambed – bedrock)	Minor	R4SB1C	Intermittent	Unknown	
Trib. to Olalla Creek	57.14	BSI-140	Private	2.01	5.36	<0.01	<0.01	Dry Open-Cut (Streambed – bedrock)	Minor	R4SB1C	Intermittent	F	
Trib. to Olalla Creek	57.31	BSI-138	17100302002187 Private	5.64	15.04	0.01	0.00	Dry Open-Cut	Minor	R4SB1C	Intermittent	F	
Trib to Olalla Creek	57.84	EE-12 (BSI-147)	17100302002221 Private	4.26	11.36	0.01	0.00	Dry Open-Cut	Minor	R4SB3C	Intermittent	N	
Irrigation Canal	57.97	BDX148	Private	1.20	3.20	<0.01	<0.01	Dry Open-Cut	Minor	R4UB3Cx	Ditch	Unknown	
Trib. to Olalla Creek	58.20	BSI-151	17100302002311 Private	3.14	8.37	0.01	0.00	Dry Open-Cut	Minor	R4SB1C	Intermittent	N	
Ditch	58.30 58.51	BDX-157	Private	-	-	<0.01	<0.01	Adjacent to centerline within ROW and TEWA	NA	R4UB3Cx	Ditch	N	
Trib. to Olalla Creek	58.55	BSP-159	17100302002420 Private	10.60	28.27	0.03	0.00	Dry Open-Cut (Streambed – bedrock) f/	Intermediate	R2SB1H	Perennial	Unknown	
Olalla Creek	58.78	BSP-155	17100302000047 Private	87.43	233.15	0.20	0.00	Dry Open-Cut Level 2	Intermediate	R2SB1H	Perennial	F	Biological Criteria – Cat: 5 Temperature/Year Round – Cat: 4A Iron/Year-Round – Cat: 5 Flow Modification – Cat: 4C
Ditch Trib. to Olalla Creek	59.02	BDX-153	17100302002576 Private	3.49	9.31	0.01	0.00	Dry Open-Cut	Minor	R4UB1Cx	Ditch	N	
Trib. to Olalla Creek	59.29	BSI-132	17100302002635 Private	8.65	23.07	0.02	0.00	Dry Open-Cut	Minor	R4SB3C	Intermittent	Unknown	
Trib. to Olalla Creek	59.65	BSI-129	17100302000705 Private	18.72	49.92	0.03	0.00	Dry Open-Cut	Intermediate	R4SB3C	Intermittent	Unknown	
Trib. to McNabb Creek	60.13	NSP-14	17100302002838 Private	8.31	22.16	0.02	0.00	Dry Open-Cut (Streambed – bedrock) f/	Minor	R3SB1H	Perennial	N	
McNabb Creek	60.48	NSP-13	17100302002924 Private	9.74	25.97	0.04	0.00	Dry Open-Cut (Streambed – bedrock) Level 1 f/	Minor	R3SB1H	Perennial	F	
<b>Klamath Mountains Ecoregion, South Umpqua Sub-basin (HUC 17100302), Clark Branch-South Umpqua River (HUC 1710030211) Fifth field Watershed 2, Douglas County, Oregon</b>													
Kent Creek	63.97	BSP-240	17100302000075 Private	16.50	44.00	0.01	0.00	Dry Open-Cut Level 1	Intermediate	R2UB1H	Perennial	F	Flow Modification – Cat: 4C Habitat Modification – Cat: 4C
Trib. to Kent Creek	63.97	BSI-241	17100302003968 Private	-	-	0.05	0.00	Adjacent to centerline within ROW	NA	R4UB1J	Intermittent	Unknown	
Rice Creek	65.76	S2-04 BSP-227 (MOD)	17100302000079 Private	84.56	225.49	0.09	0.00	Dry Open-Cut (Streambed – bedrock) Level 1 f/	Intermediate	R3SB1H	Perennial	F	Temperature/Summer - Cat: 4A (non-spawning) Habitat Modification – Cat: 4C Flow Modification – Cat: 4C E. Coli/Summer – Cat: 4A
Trib. to Willis Creek	66.87	BSI-230	17100302004832 Private	-	-	0.02	0.04 p/	Adjacent to centerline within ROW (Streambed – bedrock)	NA	R4SB1J	Intermittent	Unknown	
Willis Creek	66.95	BSP-168	17100302000083 Private	40.20	107.20	0.10	0.00	Dry Open-Cut (Streambed – bedrock) Level 1 f/	Intermediate	R3SB1C	Perennial	F	Flow Modification – Cat: 4C
Trib. to Willis Creek	67.00	BSI-169	17100302048422 Private	3.38	9.01	0.01	0.00	Dry Open-Cut (Streambed – bedrock) f/	Intermediate	R4SB3J	Intermittent	N	

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Waterbody a/	Approximate Pipeline Milepost	Waterbody ID d/	NHD Waterbody Reach Code e/ / Jurisdiction	Length of Crossing (Feet)	Excavated Volume at Crossing (yds) n/	Acres of Construction ROW in Wetland	Acres of Temporary Extra Work Area in Wetland	Crossing Method6 Scour Level l/	FERC Classification g/	Cowardin Classification	Stream Type	ODF or NWFP Stream Classification h/,i/	Oregon Department of Environmental Quality Water Quality Limited Streams j/
Trib. to South Umpqua River	69.10	SS-005-001 (SS-100-011)	17100302049984 Private	-	-	<0.01	0.00	Adjacent to centerline within ROW	NA	R4SBC	Intermittent	Unknown	
Trib. to South Umpqua River	69.29	SS-004-004 (SS-100-012)	17100302005610 Private	7.41	19.74	0.01	0.00	Dry Open-Cut	Minor	R3UBF	Perennial	Unknown	
Trib. to South Umpqua River	69.35	SS-004-005 (SS-100-013)	17100302000727 Private	10.49	27.97	0.02	0.00	Dry Open-Cut	Intermediate	R3UBF	Perennial	Unknown	
Trib. to South Umpqua River	69.57	SS-004-006 (SS-100-014)	17100302005693 Private	7.08	18.88	0.02	0.02	Dry Open-Cut	Minor	R4SBC	Intermittent	N	
Trib. to South Umpqua River	71.08	SS-005-006 (SS-100-015)	17100302006216 Private	-	-	0.00	0.07	Adjacent In TEWA 71.01-N	INA	R4SBA	Intermittent	N	
South Umpqua River	71.27	BSP-26	17100302000086 Private	Direct Pipe (200.27)	-	0.00	0.08	Direct Pipe Level 2 m/	Major	R3OWH	Perennial	F	Biological Criteria – Cat: 5 Dissolved Oxygen/Oct. 15-May 15 – Cat: 5 (spawning) Aquatic Weeds or Algae - Cat: 4A Dissolved Oxygen/Year-Round – Cat: 4A (non-spawning) Temperature/Year Round - Cat: 4A (non spawning) Chlorophyll a/Summer - Cat: 4A E Coli/Summer Cat: 4A pH/Summer - Cat: 4A Chlorine/Year-Round – Cat: 4B Flow Modification – Cat: 4C Habitat Modification – Cat: 4C
Trib. to South Umpqua River	71.34	SS-005-007	17100302035572 Private	-	-	0.00	<0.01	In Roth Pipe Yard – TEWA 71.36-W. Will be avoided.	N/A	R4	Intermittent	N	
Trib. to South Umpqua River	71.35	SS-005-008 (SS-100-016)	17100302006366 Private	10.63	28.35	0.02	0.02	Direct Pipe	N/A	PSS1C	Intermittent	N	
Ditch	71.42	SS-005-008 EDX-02	Private	4.00	99.01	0.00	<0.01	Road Improvement Two New Culverts	N/A	R4SB3Cx	Intermittent	N	
Trib. to South Umpqua River	71.69	SS-100-017	17100302047304 Private	-	-	0.01	0.00	Adjacent to centerline within ROW	N/A	R4	Intermittent	N	
Pond	72.65	EE-WB-8015	17100302014881 Private	-	-	0.00	0.01	Off-Site TEWA Water Source	N/A	PUB	Pond	Y	
Trib. to South Umpqua River	73.04	SS-005-009 (SS-100-019)	17100302006590 Private	3.28	8.75	0.01	0.00	Dry Open-Cut	Minor	R4SBA	Intermittent	Unknown	
Trib. to South Umpqua River	73.51	SS-005-013 (SS-100-020)	17100302050160 Private	7.06	18.83	0.03	0.00	Dry Open-Cut	Minor	R4UB3Cx	Intermittent	Unknown	
Trib. to South Umpqua River	73.56	SS-005-011 & 012 (SS-100-021)	17100302049674 Private	22.74	60.64	0.04	0.00	Dry Open-Cut	Intermediate	R4SBA	Intermittent	Unknown	
Trib. to Richardson Creek	73.70	S-T03-002	Private	-	-	<0.01	<0.01	Adjacent to centerline within ROW Road Improvement New Culvert	N/A	R4SBA	Intermittent	Unknown	
Trib. to Richardson Creek	73.70	S-T03-003	17100302049674 Private	3.00 t/	74.24 t/	0.00	0.00	Road Improvement New Culvert	N/A	R4SBA	Intermittent	Unknown	
Trib. to South Umpqua River	73.70	S-T03-005B	17100302006727 Private	4.50 t/	74.24 t/	0.00	0.00	Road Improvement New Culvert	N/A	R4SBC	Intermittent	Unknown	
Trib. to South Umpqua River	73.70	EE-SS-8002	17100302001062 Private	-	-	0.00	0.00	Road Improvement Temporary Bridge or Mat	N/A	R4SBC	Intermittent	Unknown	



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Trib. to Richardson Creek	73.73	SS-005-010	Private	4.29	11.44	0.02	0.00	Dry Open-Cut	Minor	R3SB3	Perennial	Unknown	
<b>Klamath Mountains Ecoregion, South Umpqua Sub-basin (HUC 17100302), Myrtle Creek (HUC 1710030210) Fifth field Watershed 2, Douglas County, Oregon</b>													
Rock Creek	75.33	EE-SS-9032	17100302007335 Private	16.77	44.72	0.04	0.02	Dry Open-Cut	Intermediate	R4SBC	Perennial	Unknown	
Trib. to Rock Creek	75.34	EE-SS-9033A	17100302001061 Private	18.58	49.55	0.04	0.01	Dry Open-Cut	Intermediate	R4SBA	Perennial	Unknown	
Trib. to Rock Creek	75.34	EE-SS-9033B	17100302001061 Private	-	-	0.00	0.00	Road Improvement Use Existing Culvert	N/A	R4SBA	Intermittent	Unknown	
Trib. to Rock Creek	75.65	EE-SS-8003	17100302045320 Private	-	-	0.00	0.00	Road Improvement Use Existing Culvert	N/A	R4SBA	Intermittent	Unknown	
Trib. to Rock Creek	75.65	EE-SS-8004	17100302045321 Private	-	-	0.00	0.00	Road Improvement Use Existing Culvert	N/A	R4SBA	Intermittent	Unknown	
Bilger Creek	76.38	S-T02-004 (BSP-1)	17100302000605 Private	20.02	53.38	0.04	<0.01	Dry Open-Cut	Intermediate	R3SBH	Perennial	F	E. Coli/Year Round - Cat: 5 Dissolved Oxygen/Year Round - Cat: 5
Little Lick	77.71	BSP-6	17100302001073 Private	7.86	20.96	0.02	0.03 p/	Dry Open-Cut Level 1	Minor	R3SB7/PSS1C	Perennial	F	
Trib. to Little Lick Creek	77.93	BSI-8	17100302008039 Private	11.68	31.15	0.03	0.01	Dry Open-Cut	Intermediate	R3SB1H	Intermittent	Unknown	
Trib. to Little Lick Creek	78.02	BSI-10	17100302008047 Private	2.01	5.36	<0.01	0.02	Dry Open-Cut	Minor	R4SB3C	Intermittent	N	
Big Lick Reservoir	78.98	EE-WB-8012	17100302014865 Private	-	-	0.00	<0.01	Off-Site TEWA Water Source - Dust	N/A	PUBH	Pond	F	
North Myrtle Creek	79.12	NSP-37	17100302000541 Private	30.07	80.19	0.06	0.00	Dry Open-Cut (Streambed – bedrock) Level 2 f/,m/	Intermediate	R3SB1H	Perennial	F	Biological Criteria/Year-Round – Cat: 5 Dissolved Oxygen/Oct. 15-May 15 – Cat: 5 Temperature/Year-Round. Cat: 4A (non-spawning) E Coli/Summer - Cat: 4A Habitat Modification – Cat: 4C Flow Modification – Cat: 4C
Trib. to North Myrtle Creek	79.15	NSP-38	17100302008397 Private	8.00	21.33	0.02	0.02	Dry Open-Cut (Streambed – bedrock) f/	Minor	R3SB1H	Perennial	F	
Trib. to N. Myrtle Creek	79.17	EE-SS-9038	17100302045565 Private	6.92	18.45	0.02	<0.01	Dry Open-Cut	Minor	R3SB1H	Intermittent	N	
Trib. to N. Myrtle Creek	79.19	EE-SS-9039	17100302045117 Private	8.64	23.04	0.02	0.01	Dry Open-Cut	Minor	R3SB1H	Intermittent	N	
South Myrtle Creek	81.19	S-T02-003 (BSP-172)	17100302000521 Private	37.71	100.56	0.07	0.00	Dry Open-Cut (Streambed – bedrock) Level 2 f/,m/	Intermediate	R3SBH	Perennial	F	E. Coli/Summer – Cat: 5 Dissolved Oxygen/Oct. 15 – May 15 – Cat: 5 Temperature/Year-Round -. Cat: 4A (non-spawning) Flow Modification – Cat: 4C
Trib. to S. Myrtle Creek	81.38	BSP-259	17100302008796 Private	3.04	8.11	0.01	0.00	Dry Open-Cut	Minor	R3SB1H	Intermittent	F	
Trib. to South Myrtle Creek	81.45	SS-100-023	17100302008772 Private	3.72	9.92	0.01	<0.01	Dry Open-Cut	Minor	R4SBA	Intermittent	None	
Trib. to South Myrtle Creek	81.93	EE-SS-9074	17100302008917 Private	3.16	8.43	0.01	0.01 p/	Dry Open-Cut	Minor	R4SBA	Intermittent	Unknown	

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<b>Klamath Mountains Ecoregion, South Umpqua Sub-basin (HUC 17100302), Days Creek-South Umpqua River (HUC 1710030205) Fifth field Watershed 2, 3, Douglas County, Oregon</b>													
Wood Creek	84.17	BSP-226	17100302001104 Private	8.22	21.92	0.02	0.00	Dry Open-Cut (Streambed-bedrock) Level 1 <u>f/,m/</u>	Minor	R3SBH	Perennial	F	
Trib. to Wood Creek	85.38	EE-SS-9040	17100302009813 Private	15.81	42.16	0.03	0.08 <u>p/</u>	Dry Open-Cut	Intermediate	R4SBC	Intermittent	N	
Trib. to Wood Creek	85.69	EE-SS-9041	17100302009881 Private	27.16	72.43	0.05	0.11 <u>p/</u>	Dry Open-Cut	Intermediate	R4SBC	Intermittent	F	
Trib. to Wood Creek	85.71	EE-SS-9042	17100302001103 Private	24.90	66.40	0.05	0.11 <u>p/</u>	Dry Open-Cut	Intermediate	R3UBF	Perennial	N	
Trib. to Wood Creek	85.88	EE-SS-9043	17100302036325 Private	8.14	21.71	0.02	0.05 <u>p/</u>	Dry Open-Cut	Minor	R4SBA	Intermittent	N	
Trib. to Wood Creek	86.07	EE-SS-9044	17100302036276 Private	16.07	42.85	0.03	0.04 <u>p/</u>	Dry Open-Cut	Intermediate	R4SBA	Intermittent	N	
Trib. to Wood Creek	86.10	EE-SS-9045	17100302036276 Private	-	-	0.07	0.04 <u>p/</u>	Adjacent to centerline within ROW	N/A	R4SBA	Intermittent	N	
Trib. to Fate Creek	88.20	BSI-236	17100302036007 Private	6.07	16.19	0.02	0.01	Dry Open-Cut (Streambed – bedrock) <u>f/</u>	Minor	R4SB1J	Intermittent	N	
Trib. to Fate Creek	88.23	BSI-238 (MOD)	17100302036007 Private	2.00	5.33	<0.01	0.00	Dry Open-Cut	Minor	R4SB1J	Intermittent	N	
Fate Creek	88.48	BSP-232	17100302001124 Private	10.80	28.80	0.03	0.00	Dry Open-Cut (Streambed-bedrock) Level 1 <u>f/,m/</u>	Intermediate	R3SB1H	Perennial	F	Temperature/Year-Round – Cat: 4A (non-spawning)
Days Creek	88.60	BSP-233	17100302000511 Private	22.79	60.77	0.03	0.00	Dry Open-Cut (Streambed-bedrock) Level 1 <u>f/,m/</u>	Intermediate	R3SB1H	Perennial	F	Temperature/Year-Round – Cat: 4A (non-spawning) Habitat Modification – Cat: 4C Flow Modification – Cat: 4C
Ditch	88.69	EE-SS-8005	Private	3.40 <u>r/</u>	130.96 <u>r/</u>	-	-	Road Improvement New Culvert on PAR 88.69	N/A	R4SBC	Ditch	N	
<b>Cascades Ecoregion, South Umpqua Sub-basin (HUC 17100302), Days Creek-South Umpqua River (HUC 1710030205) Fifth field Watershed 2, 3, Douglas County, Oregon</b>													
Saint John Creek	92.62	ASP-303	17100302011280 Private	14.72	39.25	0.03	0.00	Dry Open-Cut Level 1	Intermediate	R3RB2H	Perennial	F	
Pond H3-01	94.6	H3-01	Private	-	-	0.00	0.01	Not Crossed Pond in Milo Yard	N/A	PUB2H	Depressional	N	
Pond H3-02	94.6	H3-02	Private	-	-	0.00	0.00	Not Crossed <u>f/</u> Pond in Milo Yard	N/A	PUB2H	Depressional	N	
Pond H3-03	94.6	H3-03	Private	-	-	0.00	0.13 <u>o/</u>	Not Crossed Pond in Milo Yard	N/A	PUB2H	Depressional	N	
South Umpqua River	94.73	ASP-196	17100302011516 Private	123.14	328.37	0.30	0.98	Diverted Open- Cut Level 2 <u>m/</u>	Major	R2OWH	Perennial	F	Dissolved Oxygen/October 15-May 15 – Cat: 5 (spawning) Temperature/Year-Round - Cat: 4A (non spawning) pH/Summer - Cat: 4A Flow Modification – Cat: 4C Habitat Modification – Cat: 4C
Trib. to South Umpqua River	94.85	ASI-193 (ASI-191)	17100302011517 Private	15.09	40.24	0.03	0.00	Dry Open-Cut	Intermediate	R4SB3C	Intermittent	N	
Trib. to South Umpqua River	95.03	ASI-193 (ASI-191)	17100302011517 Private	10.74	28.64	0.02	0.00	Dry Open-Cut	Intermediate	R4SB3C	Intermittent	N	

TABLE H-3

Waterbodies Affected by the Pipeline (updated May 2018)

Waterbody a/	Approximate Pipeline Milepost	Waterbody ID d/	NHD Waterbody Reach Code e/ / Jurisdiction	Length of Crossing (Feet)	Excavated Volume at Crossing (yds) n/	Acres of Construction ROW in Wetland	Acres of Temporary Extra Work Area in Wetland	Crossing Method <sup>6</sup> Scour Level l/	FERC Classification g/	Cowardin Classification	Stream Type	ODF or NWFP Stream Classification h/,i/	Oregon Department of Environmental Quality Water Quality Limited Streams j/
Trib. to South Umpqua River	98.46	ASI-190	17100302038007 BLM-Roseburg District	9.20	24.53	0.02	0.00	Dry Open-Cut (Streambed – bedrock) f/	Minor	R4SB1	Intermittent	N	
<b>Cascades Ecoregion, South Umpqua Sub-basin (HUC 17100302), Upper Cow Creek (HUC 1710030206) Fifth field Watershed 2, Douglas County, Oregon</b>													
Ditch (Beaver Creek)	105.41	CDX-50	Forest Service – Umpqua NF	44.53	118.75	0.03	0.00	Dry Open-Cut	Intermediate	R4SB1Cx	Ditch	I - Federal Land 8	
Ditch	106.77	CDX-49	Forest Service – Umpqua NF	-	-	<0.01	0.00	Adjacent to centerline within ROW	N/A	R4SB1Cx	Ditch	I - Federal Land 8	
Roadside Ditch	108.08	CDX-47	Forest Service – Umpqua NF	6.67	17.79	0.02	0.01	Dry Open-Cut	Minor	R4UB3Cx	Ditch	I - Federal Land 8	
Roadside Ditch	108.40	CDX-48	Forest Service – Umpqua NF	7.12	18.99	0.01	<0.01	Dry Open-Cut	Minor	R4UB3Cx	Ditch	I - Federal Land 8	
Ditch	109.13	GDX-15	Forest Service – Umpqua NF	-	-	0.00	<0.01	Adjacent to centerline within TEWA	N/A	R4UB3Cx	Ditch	I - Federal Land 8	
Trib. to East Fork Cow Creek	109.33	GSI-16 (FS-HF-F)	17100302034497 Forest Service – Umpqua NF	6.43	17.15	0.01	0.00	Dry Open-Cut	Minor	R4	Intermittent	I - Federal Land	
East Fork Cow Creek	109.47	GSP-19 (ASP-297/FS-HF-G)	17100302013838 Forest Service – Umpqua NF	34.45	91.87	0.06	0.00	Dry Open-Cut (Streambed-bedrock) f/	Intermediate	R3UB1H	Perennial	F - Federal Land	
East Fork Cow Creek	109.69	GSP-22 (ASP-297/FS-HF-M)	17100302013839 Forest Service – Umpqua NF	-	-	0.00	0.01	Adjacent to centerline within TEWA	N/A	R3UB1H	Perennial	F - Federal Land	
Trib. to East Fork Cow Creek	109.69	FS-HF-J	17100302012765 Forest Service – Umpqua NF	10.34	27.57	0.02	0.00	Dry Open-Cut	Intermediate	R3UB1H	Perennial	F - Federal Land	
Trib. to East Fork Cow Creek	109.78	FS-HF-K	17100302012789 Forest Service – Umpqua NF	6.81	18.16	0.01	0.00	Dry Open-Cut	Minor	R3UB1H	Perennial	F - Federal Land	
<b>Cascades Ecoregion, Upper Rogue Sub-basin (HUC 17100307), Trail Creek (HUC 1710030706) Fifth field Watershed 2, Jackson County, Oregon</b>													
Pond Trib. to W. Fork Trail Creek	110.57	EW-69	Forest Service – Umpqua NF	-	-	0.00	0.01	Within Pevine Quarry TEWA 110.73	N/A	PUB3C	Depressional Intermittent Pond	I - Federal Land	
Trib. to W. Fork Trail Creek	110.57	ESI-68	17100307018629 Forest Service – Umpqua NF	-	-	0.00	0.07	Within Pevine Quarry TEWA 110.73	N/A	R4SB1H	Intermittent	I - Federal Land	
<b>Cascades Ecoregion, South Umpqua Sub-basin (HUC 17100302), Upper Cow Creek (HUC 1710030206) Fifth field Watershed 2, Jackson County, Oregon</b>													
Trib. to East Fork Cow Creek	110.96	FS-HF-N (ESI-68)	17100302034587 Forest Service – Umpqua NF	13.97	37.25	0.02	0.02	Dry Open-Cut	Intermediate	R4SB1H	Intermittent	I - Federal Land	
<b>Klamath Mountains Ecoregion, Upper Rogue Sub-basin (HUC 17100307), Trail Creek (HUC 1710030706) Fifth field Watershed 2, Jackson County, Oregon</b>													
Ditch	118.57	EE-SS-8009	17100307015563 Private	4.00 f/	62.15 f/	-	-	Road Improvement New Culvert Curve Widening	Minor	R4SBA	Ditch	N	
Trib. to West Fork Trail Creek	118.80	SS-100-032	17100307015563 Private	2.24	5.97	0.01	<0.01 g/	Dry Open-Cut	Minor	R4SB1H	Intermittent	N	
West Fork Trail Creek	118.89	ASP-202	17100307000492 Private	24.29	64.77	0.04	0.00	Dry Open-Cut (Streambed – bedrock) Level 1 f/	Intermediate	R2SB1H	Perennial	F	Dissolved Oxygen/Summer – Cat: 5 Flow Modification – Cat: 4C
Trib. to Trail Creek	119.84	S1-06 (DA-16 (MOD))	17100307002143 Private	4.69	12.51	0.01	0.01 g/	Dry Open-Cut	Minor	R4SB1H	Intermittent	N	
Canyon Creek	120.45	NSP-11	17100307000501 BLM-Medford District	4.24	11.34	0.01	0.00	Dry Open-Cut (Streambed – bedrock) Level 1 f/	Minor	R4SB1H	Perennial	F	

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Trib. to Trail Creek	120.90	ASI-205	17100307009101 Private	11.03	29.41	0.02	0.00	Dry Open-Cut	Minor	R4UBC	Intermittent	N	
Trib. to Trail Creek	121.57	ASI-206	17100307002356 Private	4.61	12.29	0.05	0.00	Dry Open-Cut	Minor	R4UBC	Intermittent	*D or N	
<b>Klamath Mountains Ecoregion, Upper Rogue Sub-basin (HUC 17100307), Shady Cove-Rogue River (HUC 1710030707) Fifth field Watershed 2, Jackson County, Oregon</b>													
Trib. to Cricket Creek	121.87	ESI-71	Private	-	-	0.00	<0.01	Adjacent to centerline within ROW	N/A	R4SB1C	Intermittent	N	
Trib. to Cricket Creek	121.91	ESI-73	Private	-	-	0.00	<0.01	Adjacent to centerline within ROW	N/A	R4SB1C	Intermittent	N	
Trib. to Cricket Creek	121.96	ESI-72	17100307002397 Private	-	-	0.00	<0.01	Adjacent to centerline within ROW	N/A	R4SB1C	Intermittent	N	
Trib. to Cricket Creek	122.04	ESI-74	17100307019333 Private	-	-	0.00	<0.01	Adjacent to centerline within ROW	N/A	R4SB1C	Intermittent	N	
Cricket Creek	122.07	ESI-70	17100307002397 Private	-	-	0.00	0.18	Adjacent to centerline within ROW	N/A	R4SB1C	Intermittent	N	
Rogue River	122.65	ASP-235	17100307000156 Private	HDD (142.85)	-	0.00	0.00	HDD	Major	R3UBH	Perennial	F	pH/Summer – Cat: 5 Mercury – Cat. 5
Trib. To Rogue River	123.08	EE-SS-8018	17100307002482 Private	8.50 <u>l/</u>	31.07 <u>l/</u>	-	-	Road Improvement New Culvert Extension	NA	R4SBC	Intermittent	N	
Trib. to Indian Creek	125.91	ASI-223	17100307014756 Private	4.71	12.56	0.01	0.00	Dry Open-Cut	Minor	R4UB1C	Intermittent	N	
Trib. to Indian Creek	125.98	ASI-222	17100307016576 Private	4.65	12.40	0.01	0.00	Dry Open-Cut	Minor	R4UB1C	Intermittent	N	
Trib. to Indian Creek	126.53	RS-4	17100307008662 BLM-Medford District	3.03	8.08	<0.01	0.00	Dry Open-Cut	Minor	R4UB1C	Intermittent	Unknown	
Trib. to Indian Creek	126.56	ASI-221	17100307000826 BLM-Medford District	4.24	11.31	0.01	0.00	Dry Open-Cut	Minor	R4UB1C	Intermittent	Unknown	
Ditch	127.21	ADX-287	17100307015921 Private	-	-	<0.01	<0.01	Adjacent to centerline within TEWA	N/A	R4UB3Cx	Ditch	N	
Trib. to Indian Creek	127.30	EE-SS-8019	17100307006079 Private	8.60 <u>l/</u>	183.85 <u>l/</u>	0.00	0.00	Road Improvement New Culvert	N/A	R4SBA	Intermittent	Unknown	
Indian Lake Reservoir	127.30	EE-WB-8001	Private	-	-	0.00	0.36	Off-Site TEWA Water Source - Dust	N/A	L2USCh	Lake	F	
Ditch	127.33	ADX-285	Private	6.10	16.27	0.01	0.01	Dry Open-Cut	Minor	R4UB3Cx	Ditch	N	
Deer Creek	128.49	ASP-307	17100307006079 Private	8.33	22.21	0.02	0.00	Dry Open-Cut (Streambed – bedrock) <u>l/</u>	Minor	R3SB1H	Perennial	F	
Indian Creek	128.61	AW-278	17100307003031 Private	12.30	32.80	0.02	<0.01	Dry Open-Cut Level 1	Intermediate	R3SB1H/ PEMC	Perennial	F	
Trib. to Indian Creek	128.68	ASP-310	17100307017016 Private	5.22	13.92	0.01	<0.01 <u>g/</u>	Dry Open-Cut (Streambed – bedrock) <u>l/</u>	Minor	R3SB1H	Perennial	F	
Trib to Indian Creek	129.13	ASI-400	BLM-Medford District	1.42	3.79	<0.01	<0.01 <u>g/</u>	Dry Open-Cut	Minor	R4	Intermittent	N	
Trib. to Indian Creek	129.21	ASI-306	BLM-Medford District	-	-	<0.01	0.00	Adjacent to centerline within ROW	N/A	R4	Intermittent	N	

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Trib. to Indian Creek	129.46	ASI-277	17100307017444 Private	4.04	10.77	0.01	<0.01 p/	Dry Open-Cut	Minor	R4UB1C	Intermittent	Unknown	
<b>Klamath Mountains Ecoregion, Upper Rogue Sub-basin (HUC 17100307), Big Butte Creek (HUC 1710030704) Fifth field Watershed 2, Jackson County, Oregon</b>													
Trib. to Neil Creek	130.81	SS-201-014a (AW-244)	17100307010117 Private	-	-	0.00	0.02	Adjacent to centerline within TEWA	N/A	R4UB1C	Intermittent	N	
Trib. to Neil Creek	130.83	SS-201-014b (AW-244)	17100307010117 Private	6.29	16.77	0.02	<0.01	Dry Open-Cut (Streambed – bedrock) f/	Minor	R4UB1C/PSS C	Intermittent	N	
Trib. to Neil Creek	131.37	ASI-251	17100307018233 BLM-Medford District	-	-	0.00	<0.01	Adjacent to centerline within ROW	N/A	R4UB1C	Intermittent	N	
Irrigation Ditch (Trib. to Neil Creek)	132.03	S2-02 (ADX-253 (MOD))	Private	1.15	3.07	<0.01	<0.01	Dry Open-Cut	Minor	R4UB3x	Ditch	N	
Neil Creek	132.12	ASP-252	17100307006088 Private	6.48	17.28	0.01	0.00	Dry Open-Cut (Streambed – bedrock) Level 1 f/	Minor	R4SB1C	Perennial	F	
Ditch	132.26	EDX-75	Private	15.12	40.32	0.03	<0.01	Dry Open-Cut	Intermediate	R4UB3x	Ditch	N	
Trib. to Quartz Creek	132.75	S5-01 (ASI-265)	Private	2.36	6.29	<0.01	0.00	Dry Open-Cut (Streambed – bedrock) f/	Minor	R4SB1C	Intermittent	F	
Quartz Creek	132.77	S5-02 (AW-264)	17100307000857 Private	6.29	16.77	0.01	0.00	Dry Open-Cut (streambed – bedrock) f/	Minor	R4SB1C/PFO	Intermittent	F	
Trib. to Quartz Creek	133.35	ASP-241	BLM-Medford District	44.80	119.47	0.12	0.10	Dry Open-Cut	Intermediate	R3UB3H	Perennial	F	
Medford Aqueduct (Ditch 3)	133.38	ASP-240	17100307006008 BLM-Medford District	Bore (22.76)	-	0.05	0.00	Conventional Bore	Intermediate	R3UB3x	Perennial	F	
<b>Klamath Mountains Ecoregion, Upper Rogue Sub-basin (HUC 17100307), Little Butte Creek (HUC 1710030708) Fifth field Watershed 2, Jackson County, Oregon</b>													
Trib. to Lick Creek	136.13	EE-SS-8006	17100307018197 Private	6.30 f/	64.74 f/	0.00	0.00	Road Improvement New Culvert	N/A	R4SBA	Intermittent	N	
Trib. to Lick Creek	136.13	EE-SS-8007	17100307018197 Private	5.90 f/	64.74 f/	0.00	0.00	Road Improvement New Culvert	N/A	R4SBA	Intermittent	N	
Whiskey Creek	137.48	ASI-207	17100307000892 Private	10.37	27.65	0.01	0.00	Dry Open-Cut	Intermediate	R4UB3C	Intermittent	N	
Trib. To Whiskey Creek	137.50	SS-200-006	17100307016378 Private	36.04	96.11	0.05	<0.01	Dry Open-Cut	Intermediate	R4SBC	Intermittent	N	
Trib. To Whiskey Creek	137.60	SS-200-008	Private	3.19	8.51	0.01	0.00	Dry Open-Cut	Minor	R4SBC	Intermittent	N	
Trib. to Lick Creek	138.08	EE-SS-8008	17100307012488 Private	5.75 f/	19.64 f/	0.00	0.00	Road Improvement New Culvert	N/A	R4SBA	Intermittent	N	
Trib. to Lick Creek	138.26	ASI-208	17100307012488 Private	13.54	36.11	0.03	<0.01	Dry Open-Cut	Intermediate	R4UB3C	Intermittent	F	
Trib. to Lick Creek	138.36	SS-GM-9	17100307020234 Private	10.92	29.12	0.03	0.00	Dry Open-Cut	Intermediate	R4SB3	Intermittent	N	
Trib. to Lick Creek	138.44	SS-GM-10	17100307003986	8.27	22.05	0.02	0.00	Dry Open-Cut	Minor	R3UB1	Intermittent	N	
Trib. to Lick Creek	138.40	S-T04-014	Private	-	-	0.00	0.00	Road Improvement Use Existing Culvert	N/A	R4SBC	Intermittent	N	
Trib. to Lick Creek	138.50	S-T04-012	17100307000884 Private	-	-	0.00	0.00	Road Improvement Use Existing Culvert	N/A	R4SBC	Intermittent	N	
Trib. to Lick Creek	138.50	S-T04-013	Private	-	-	0.00	0.00	Road Improvement Use Existing Culvert	N/A	R4SBC	Intermittent	N	
Trib. to Lick Creek	138.50	ASI-210	17100307003986 Private	1.72	4.59	0.01	0.00	Dry Open-Cut	Minor	R4UB1C	Intermittent	*D or N	

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Trib. to Lick Creek	138.55	SS-GM-11	17100307000884	9.84	26.24	0.02	0.00	Dry Open-Cut	Minor	R4SB3	Intermittent	N	
Trib. to Lick Creek	138.57	SS-GM-12	Private	-	-	0.00	<0.01	Adjacent to centerline within ROW	N/A	R4SB4	Intermittent	N	
Trib. to Lick Creek	138.63	EE-SS-8010	17100307012948 Private	-	-	0.00	0.00	Road Improvement Use Existing Culvert	N/A	R4SBC	Intermittent	N	
Trib. to Lick Creek	138.63	EE-SS-8011	Private	-	-	0.00	0.00	Road Improvement Use Existing Culvert	N/A	R4SBC	Intermittent	N	
Trib. to Lick Creek	138.63	EE-SS-8012	Private	-	-	0.00	0.00	Road Improvement Use Existing Culvert	N/A	R4SBC	Intermittent	N	
Trib. to Lick Creek	138.71	ASI-211	17100307008460 Private	6.33	16.88	0.01	0.00	Dry Open-Cut	Minor	R4UB1C	Intermittent	N	
Trib. to Lick Creek	138.80	S-T04-001	Private	-	-	0.00	0.00	Road Improvement Use Existing Culvert	N/A	R4SBCx	Ditch	N	
Trib. to Lick Creek	138.74	SS-GM-13	Private	8.30	22.13	0.01	0.00	Dry Open-Cut	Minor	R4SB7	Intermittent	N	
Trib. to Lick Creek	139.05	EE-SS-8013	17100307004033 Private	-	-	0.00	0.00	Road Improvement Use Existing Culvert	N/A	R4SBC	Intermittent	N	
Trib. to Lick Creek	139.07	S-T04-002A (SS-GM-14)	17100307008463 Private	8.21	21.89	0.01	0.00	Dry Open-Cut	Minor	R4SB3	Intermittent	N	
Ditch	139.10	S-T04-002A	Private	1.88	5.03	0.01	0.01	Dry Open-Cut	Minor	R4SBCx	Ditch	N	
Ditch	139.10	S-T04-003	Private	-	-	0.00	<0.01	Adjacent within TEWA Road Improvement Use Existing Culvert	N/A	R4SBCx	Ditch	N	
Ditch	139.20	S-T04-004	Private	-	-	0.00	0.03	Adjacent within TEWA Road Improvement Use Existing Culvert	N/A	R4SB1Cx	Ditch	N	
Trib. to Lick Creek	139.21	S-T04-006 (SS-GM-15)	Private	12.23	32.61	0.03	0.00	Dry Open-Cut	Intermediate	R4SBC	Intermittent	N	
Trib. to Lick Creek	139.28	S-T04-007 SS-GM-16	Private	3.08	28.20	0.01	0.00	Dry Open-Cut	Minor	R4SBC	Intermittent	N	
Trib. to Lick Creek	139.30	S-T04-008A	Private	-	-	0.00	0.00	Adjacent to Road Improvement – No Culvert	N/A	R4SBC	Intermittent	N	
Pond	139.30	WB-T04-002	Private	-	-	0.00	0.00	Adjacent to Road Improvement–No Culvert	N/A	PUB3x	Pond	N	
Pond	139.30	WB-T04-003	Private	-	-	0.00	0.00	Adjacent to Road Improvement –No Culvert	N/A	PUB3x	Pond	N	
Trib. to Lick Creek	139.39	S-T04-008 (ASI-217)	Private	25.52	68.08	0.05	0.00	Dry Open-Cut	Intermediate	R4SB1C	Intermittent	*D or N	
Ditch	139.40	S-T04-009 (ASI-217)	Private	-	-	0.00	0.00	Road Improvement Use Existing Culvert	NA	R4UBCx	Ditch	N	
Trib. to Lick Creek	139.59	ASI-226	17100307019116 Private	13.20	35.20	0.02	0.00	Dry Open-Cut (Streambed – bedrock) f/	Intermediate	R4SB1C	Intermittent	Unknown	
Trib. to Lick Creek	139.63	ASI-227	Private	33.54	89.44	0.06	0.00	Dry Open-Cut (Streambed – bedrock) f/	Intermediate	R4SB1C	Intermittent	Unknown	

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Trib. to Lick Creek	139.68	ASI-228	Private	7.83	20.88	0.01	0.00	Dry Open-Cut	Intermediate	R4EMC	Intermittent	Unknown	
Trib. to Lick Creek	139.75	SS-GM-43 (AW-230)	Private	4.56	12.16	0.01	<0.00	Dry Open-Cut	Minor	R4SB3	Intermittent	Unknown	
Trib. to Lick Creek	139.91	SS-GM-19	BLM-Medford District	-	-	0.02	<0.01 p/	Adjacent to centerline within ROW	Minor	R4SB1	Intermittent	Unknown	
Lick Creek	140.27	ASI-233	17100307000130 BLM-Medford District	12.91	34.43	0.03	0.00	Dry Open-Cut Level 1	Intermediate	R4SB1C	Intermittent	F	Dissolved Oxygen/Summer – Cat: 5 Biological Criteria/Year-Round – Cat: 5 E Coli/Summer –. Cat: 4A
Ditch Trib. to Lick Creek	140.32	ADX-234	17100307001378 BLM-Medford District	2.93	7.81	0.01	0.00	Dry Open-Cut	Minor	R4SB1C	Ditch	Unknown	
Trib. to Lick Creek	140.58	ASI-189	17100307009921 Private	1.93	5.15	0.01	0.00	Dry Open-Cut (Streambed – bedrock) f/	Minor	R4SB1	Intermittent	N	
Trib. to Salt Creek	140.67	EE-SS-8014	17100307015812 Private	-	-	0.00	0.00	Road Improvement Use Existing Culvert	N/A	R4SBA	Intermittent	N	
Ditch	140.67	EE-SS-8015	17100307001378 Private	-	-	0.00	0.00	Road Improvement Existing Culvert or Temporary Mat	N/A	R5UBFx	Ditch	Unknown	
Ditch Trib. to Lick Creek	140.94	ADX-186	17100307001383 BLM-Medford District	18.04	48.11	0.04	0.02	Dry Open-Cut	Intermediate	R4SB1	Ditch	Unknown	
Star Lake Reservoir	141.01	Edge-1	17100307005853 Private	-	-	0.00	0.01	Adjacent to TEWA 140.98 Water Source	N/A	PUBx	Perennial Pond	Unknown	
Trib. to Salt Creek	141.18	ASI-187	17100307014303 BLM-Medford District	5.01	13.36	0.01	0.00	Dry Open-Cut (Streambed – bedrock) f/	Minor	R4SB1	Intermittent	Unknown	
Trib. to Salt Creek	141.48	ASI-188	17100307004291 BLM-Medford District	7.39	19.71	0.02	0.00	Dry Open-Cut (Streambed – bedrock) f/	Minor	R4SB1	Intermittent	Unknown	
Trib. to Salt Creek	141.49	RS-17	17100307004291 BLM-Medford District	4.33	11.55	0.01	0.00	Dry Open-Cut	Minor	R4SB3C	Intermittent	Unknown	
Trib. to Salt Creek	141.95	ESI-30	17100307014306 Private	6.25	16.67	0.01	0.00	Dry Open-Cut	Minor	R4SB3C	Intermittent	Unknown	
Ditch	142.28	EDX-32	Private	6.05	16.13	0.01	<0.01	Dry Open-Cut	Minor	R4SB3Cx	Ditch	N	
Trib. to Salt Creek	142.32 142.35	ESI-31	17100307018645 Private	13.44	35.84	0.03	<0.01	Dry Open-Cut	Intermediate	R4SB3Cx	Intermittent	Unknown	
Salt Creek	142.57	ESP-34	17100307000121 Private	31.34	83.57	0.06	0.00	Dry Open-Cut Level 1	Intermediate	R3SB3H	Perennial	F	E Coli/Year-Round – Cat: 4A
Ditch	142.65	EDX-36	Private	3.57	9.52	0.01	<0.01	Dry Open-Cut	Minor	R4SB3Cx	Intermittent	N	
Trib. to Salt Creek	143.12	ESI-37	17100307014301 Private	4.84	12.91	0.01	<0.01 p/	Dry Open-Cut	Minor	R4SB3C	Intermittent	N	
Trib. to Long Branch Creek	143.51	ESI-38	17100307009770 Private	2.96	7.89	0.01	0.00	Dry Open-Cut	Minor	R4SB3C	Intermittent	N	
Trib. to Long Branch Creek	143.74	ESI-39	17100307011758 Private	8.63	23.01	0.02	<0.00	Dry Open-Cut	Minor	R4SB3C	Intermittent	N	
Stock Pond	143.76	EL-41	Private	-	-	0.00	0.04	Adjacent to centerline within TEWA	N/A	R4SB2C	Depressional Stock Pond	N	
Trib. to Long Branch Creek	143.76	ESI-38	17100307009083 Private	-	-	0.00	<0.01	Adjacent to centerline within TEWA	N/A	R4SB3C	Intermittent	N	
Trib. to Long Branch Creek	143.77	ESI-40	17100307009083 Private	5.05	13.47	0.01	<0.01	Dry Open-Cut	Minor	R4SB3C	Intermittent	N	

TABLE H-3

Waterbodies Affected by the Pipeline (updated May 2018)

Waterbody a/	Approximate Pipeline Milepost	Waterbody ID d/	NHD Waterbody Reach Code e/ / Jurisdiction	Length of Crossing (Feet)	Excavated Volume at Crossing (yds) n/	Acres of Construction ROW in Wetland	Acres of Temporary Extra Work Area in Wetland	Crossing Method <sup>6</sup> Scour Level l/	FERC Classification g/	Cowardin Classification	Stream Type	ODF or NWFP Stream Classification h/,i/	Oregon Department of Environmental Quality Water Quality Limited Streams j/
Wade Reservoir	144.06	EE-WB-8013	17100307007023 Private	-	-	0.00	0.39	Off Site TEWA Water Source - Dust	N/A	L1	Lake	F	
Trib. to Long Branch Creek	144.11	ESI-38	17100307000921 Private	5.90	15.73	0.01	0.00	Dry Open-Cut	Minor	R4SB3C	Intermittent	F	
Irrigation Ditch	144.14	EDX-42	17100307006072 Private	8.20	21.87	0.02	0.00	Dry Open-Cut	Minor	R4UBx	Ditch	N	
Trib. to S. Fork Long Branch	144.70	GSP-5 (ESP-48)	17100307004586 Private	7.09	18.91	0.02	0.02	Dry Open-Cut	Minor	R3SB3H	Perennial	F	
Gardener Reservoir	145.20	EE-WB-8002 EE-WB-8003	17100307007061 Private	-	-	0.00	0.25	Off Site TEWA Water Source - Dust	N/A	PUBHh	Pone	F	
South Fork Long Branch Cr.	145.27	GSI-6 (ESP-59)	17100307004616 Private	6.48	17.28	0.02	0.00	Dry Open-Cut	Minor	R4SBC	Intermittent	Unknown	
Irrigation Ditch	145.32	NDX-107	17100307001458 Private	3.65	9.73	0.01	<0.01	Dry Open-Cut	Minor	R4UBx	Ditch	Unknown	
Irrigation Ditch	145.37	NDX-56	Private	2.57	6.85	0.01	0.00	Dry Open-Cut	Minor	R4SBC	Ditch	Unknown	
Trib. to S. Fork Long Branch	145.54	ESI-61	17100307004636 Private	5.03	13.41	0.01	0.03	Dry Open-Cut	Minor	R4SBC	Intermittent	Unknown	
Irrigation Ditch	145.57	EDX-64	Private	4.31	11.49	0.01	0.01	Dry Open-Cut	Minor	R4UBx	Ditch	Unknown	
North Fork Little Butte Creek	145.69	ESP-66	17100307000113 Private	45.29	120.77	0.09	0.00	Dry Open-Cut Level 2	Intermediate	R3SB3H	Perennial	F	Temperature/Summer – Cat: 4A E.Coli/Year Round – Cat: 4A pH/Summer - Cat: 5
Trib. to N. Fork Little Butte	146.05	ESI-56	17100307004681 Private	10.07	26.85	0.02	0.00	Dry Open-Cut	Intermediate	R4SBC	Intermittent	Unknown	
Trib. to N. Fork Little Butte	146.38	ESI-55	17100307004702 Private	4.88	13.01	0.01	<0.01	Dry Open-Cut	Minor	R4SBC	Intermittent	N	
Irrigation Ditch	146.80	EDX-51	17100307001489 Private	9.38	25.01	0.02	0.00	Dry Open-Cut	Minor	R4UBx	Ditch	Unknown	
N. Fork Little Butte Creek	147.68	EE-SS-8020a EE-SS-8020b	17100307000115 17100307000116	-	-	0.00	0.02	Off-Site TEWA Water Source Hydrostatic	N/A	R4	Perennial	F	
<b>Cascades Ecoregion, Upper Rogue Sub-basin (HUC 17100307), Little Butte Creek (HUC 1710030708) Fifth field Watershed 2, 3, Jackson County, Oregon</b>													
Fish Lake	161.40	EE-WB-8004 EE-WB-8005	17100307001170 Private	-	-	0.00	0.22	Off-Site TEWA Water Source Hydrostatic	N/A	L1UBH	Lake	F	
South Fork Little Butte Creek	162.45	ASP-165	17100307000108 Forest Service - Rogue River - Siskiyou NF	12.54	33.44	0.03	0.00	Dry Open-Cut Level 1	Intermediate	R3SB1H	Perennial	F - Federal Land	Temperature/Summer - Cat: 4 <sup>o</sup> Water Quality Limited not at point of crossing: E Coli/Summer – 4A Sedimentation – 5 Habitat Modification – 4C Flow Modification – 4C
Daley Creek	166.21	ESI-76 (ESI-84)	17100307000107 Forest Service - Rogue River - Siskiyou NF	29.36	78.29	0.10	0.09 p/	Dry Open-Cut	Intermediate	R4UBC	Intermittent	I - Federal Land	
<b>Eastern Cascades Slopes and Foothills Ecoregion, Upper Klamath River Sub-basin (HUC 18010206), Four Mile Creek (HUC 1801020302) Fifth field Watershed 2, 3, Klamath County, Oregon</b>													
Unnamed Lake	168.85	EE-WB-8006	18010203003546 Private	-	-	0.00	0.01	Off-Site TEWA Water Source Hydrostatic	N/A	L1UBH	Lake	F	



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<b>Eastern Cascades Slopes and Foothills Ecoregion, Upper Klamath River Sub-basin (HUC 18010206), Spencer Creek (HUC 1801020601) Fifth field Watershed 2, 3, Klamath County, Oregon</b>													
Spencer Creek	171.07	WW-001-013 (EW-85)	18010206000968 Forest Service - Winema NF	7.28	19.41	0.01	0.00	Dry Open-Cut	Minor	R4UBC/PEMC	Intermittent	I - Federal Land	Biological Criteria – Cat: 5 Sedimentation – Cat: 5 Temperature/Year-Round – Cat: 5 Habitat Modification – Cat: 4C Flow Modification: Cat: 4C
Trib to Spencer Creek	171.57	SS-201-001 (GSP-7)	18010206005900 Forest Service - Winema NF	105.01	13.31	0.01	<0.01 p/	Dry Open-Cut	Minor	R4SBC	Intermittent	I-Federal Land	
Trib. to Spencer Creek	173.74	ESI-106a	18010206000678 Forest Service - Winema NF	17.08	45.55	0.04	0.00	Dry Open-Cut	Intermediate	R4SB2	Intermittent	I - Federal Land	
Trib. to Spencer Creek	176.54	ESI-69	18010206000677 BLM-Lakeview District	2.71	7.23	0.01	<0.01	Dry Open-Cut	Minor	R4SB2	Intermittent	Unknown	
Trib. to Spencer Creek	176.56	GSI-10	18010206000677 BLM-Lakeview District	-	-	<0.01	0.00	Adjacent to centerline within ROW	N/A	R4SBC	Intermittent	Unknown	
Clover Creek	177.76	SS-502-EW-103	18010206000330 Private	7.16	19.09	0.01	0.00	Dry Open-Cut Level 1	Minor	R4SB2/PEMC/ PSSC	Intermittent	F	
Clover Creek	177.76	GSI-11	18010206000330 Private	7.49	19.97	0.02	0.00	Dry Open-Cut	Minor	R4SB2	Intermittent	F	
<b>Eastern Cascades Slopes and Foothills Ecoregion, Upper Klamath R. Sub-basin (HUC 18010206), John C Boyle Reservoir-Klamath River (HUC 1801020602) Fifth field Watershed 2, Klamath County, Oregon</b>													
John C. Boyle Reservoir	184.81	EE-WB-8007	18010206001010 Private	-	-	0.00	0.21	Off-Site TEWA Water Source Hydrostatic	N/A	L2ABHh	Lake	F	
Trib. to Klamath River	186.61	ESI-97	18010206002774 Private	7.64	20.37	0.02	0.00	Dry Open-Cut	Minor	R4SB2C	Intermittent	Unknown	
Trib. to Klamath River	186.65	ESI-99	18010206000682 Private	3.06	8.16	0.01	0.00	Dry Open-Cut	Minor	R4SB2C	Intermittent	Unknown	
Trib. to Klamath River	186.74	S-T03-001 (ESI-100)	Private	61.60	164.26	0.22	0.01	Dry Open-Cut	Intermediate	R4SB2C	Intermittent	Unknown	
<b>Eastern Cascades Slopes and Foothills Ecoregion, Lost River Sub-basin (HUC 18010204), Lake Ewauna-Klamath River (HUC 1801020412) Fifth field Watershed 2, Klamath County, Oregon</b>													
Keno Reservoir	187.76	EE-WB-8008	18010204015842 Private	-	-	0.00	0.08	Off-Site TEWA Water Source Hydrostatic	N/A	L1UBHh	Lake	F	
Trib. To Klamath River	188.90	SS-001-001 (SS-100-025)	18010204003103 Private	3.53	9.41	0.01	<0.01	Dry Open-Cut	Minor	R4EM2	Intermittent	Unknown	
Irrigation Ditch	192.67	S2-07 (ADX-63 (MOD))	18010204003315 Private	17.08	45.52	0.09	0.11	Dry Open-Cut	Intermediate	R4UB3Cx	Ditch	Unknown	
Ditch	192.81	NDX-66	18010204003308 18010204003314 18010204003327 18010204003348 Private	-	-	0.00	0.18	Adjacent to centerline within TEWA	N/A	R4UB3x	Ditch	Unknown	
Ditch	192.99	ADX-67	18010204003314 Private	18.74	49.97	0.04	0.03	Dry Open-Cut	Intermediate	R4UB3x	Ditch	Unknown	
Ditch	193.07	ADX-69	Private	21.90	58.40	0.05	0.01	Dry Open-Cut	Intermediate	R4UB3x	Ditch	Unknown	
Ditch	193.25	ADX-72	Private	-	-	0.00	0.02	Adjacent to centerline within TEWA	N/A	R4UB3x	Ditch	Unknown	
Ditch	193.47	ADX-73	Private	-	-	0.00	0.02	Adjacent to centerline within TEWA	NA	R4UB3x	Ditch	Unknown	
Irrigation Ditch	194.64	SS-201-003 (WW-001-010/ADX-78)	18010204003303 Private	73.18	195.15	0.15	0.02	Dry Open-Cut	Major	R2UBFx	Ditch	Unknown	

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Ditch	195.12	ADX-83	Private	-	-	0.00	0.04	Adjacent to centerline within TEWA	N/A	R4UB3x	Ditch	Unknown	
Ditch	195.18	ADX-84	Private	-	-	0.00	0.01	Adjacent to centerline within TEWA	N/A	R4UB3x	Ditch	Unknown	
Ditch	195.24	ADX-86	Private	-	-	0.00	0.01	Adjacent to centerline within TEWA	N/A	R4UB3x	Ditch	Unknown	
Irrigation Ditch	195.28	NDX-82	Private	-	-	0.00	0.02	Adjacent to centerline within TEWA	N/A	R4UB3x	Ditch	Unknown	
Drainage Ditch	195.32	ADX-87	Private	-	-	0.00	0.07	Adjacent to centerline within TEWA	N/A	R4UB3x	Ditch	Unknown	
Ditch	195.46	ADX-19	Private	13.46	35.89	0.02	0.01	Dry Open-Cut	Intermediate	R4UB2x	Ditch	Unknown	
Ditch	195.46	ADX-22	Private	-	-	0.00	<0.01	Adjacent to centerline within TEWA	N/A	R4UB2x	Ditch	Unknown	
Wetland Ditch	195.47	ADX-20	Private	-	-	0.05	0.01	Adjacent to centerline within ROW & TEWA	N/A	R4UB2x	Ditch	Unknown	
Ditch	195.67	GDX-4	Private	12.66	33.76	0.01	<0.01	Dry Open-Cut	Intermediate	R4	Ditch	Unknown	
Ditch	195.70	GDX-3	Private	14.56	38.83	0.04	0.00	Dry Open-Cut	Intermediate	R4	Ditch	Unknown	
Ditch	195.73												
Ditch	195.91	GDX-2	Private	11.38	30.35	0.03	0.02	Dry Open-Cut	Intermediate	R4	Ditch	Unknown	
Irrigation Ditch	196.53	ADX-30	Private	7.08	18.88	0.01	0.01	Dry Open-Cut	Minor	R4UB2x	Ditch	Unknown	
Drainage Ditch	196.53	ADX-31	Private	7.0 <u>r/</u>	224.82 <u>r/</u>	0.03	0.03	Adjacent to centerline within ROW, TEWA & PAR 196.53 Road Improvement Culvert	Minor	R4UB2x	Ditch	Unknown	
Irrigation Canal	196.64	ADX-32	18010204000790 Private	27.87	74.32	0.06	0.00	Dry Open-Cut	Intermediate	R4UB2x	Ditch	Unknown	
Irrigation Ditch	196.76	ADX-36	Private	8.71	23.23	0.01	0.01	Dry Open-Cut	Minor	R4UB2x	Ditch	Unknown	
Irrigation Ditch	196.78	ADX-38	18010204003183 Private	3.11	8.29	<0.01	0.00	Dry Open-Cut	Minor	R4SBFx	Ditch	Unknown	
Weyerhaeuser Pond	196.78	AL-34	Private	-	-	0.00	0.83	Adjacent to centerline within TEWA	N/A	PUBKx	Intermittent Industrial Pond	N	
Irrigation Ditch	196.89	ADX-39	Private	16.69	44.51	0.03	0.01	Dry Open-Cut	Intermediate	R4SBFx	Ditch	Unknown	
Irrigation Ditch	197.08	ADX-40	Private	16.44	43.84	0.03	0.02	Dry Open-Cut	Intermediate	R4SB	Ditch	Unknown	
Irrigation Ditch	197.22	DX-GM-1	Private	-	-	0.04	0.00	Adjacent to centerline within ROW	N/A	R4SBFx	Ditch	Unknown	
Klamath River	199.38	ASP-151	18010204002564 State	HDD (972.62)	-	0.00	0.00	HDD Level 1	Major	L1UBHh	Perennial	F	Dissolved Oxygen/Year-Round – Cat: 5 (non-spawning) Ammonia/Year-Round – Cat: 5 Chlorophyll a/Summer – Cat: 5 pH/Summer – Cat: 5 Arsenic/Year-Round – Cat: 5 Habitat Modification – Cat: 4C Flow Modification – Cat: 4C

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Irrigation Canal	200.41	ADX-293	Private	-	-	0.17	0.05	Adjacent to centerline within ROW & TEWA	N/A	R2UB3Hy	Ditch	Unknown	
Irrigation Canal (No. 1 Drain)	200.54	ADX-294	18010204003246 BOR	Bore (14.59)	-	0.03	0.00	Bore	Intermediate	R2UB3Hy	Ditch	Unknown	
Irrigation Ditch	201.49	ADX-94	18010204003336 Private	7.32	19.55	0.02	0.01	Dry Open-Cut	Minor	R4UB3x	Ditch	Unknown	
Irrigation Ditch (C-4-E Lateral)	201.63	SS-201-007 (ADX-96)	18010204000812 BOR	Bore (15.49)	-	0.03	0.00	Bore	Intermediate	R4UB3x	Ditch	Unknown	
Roadside Ditch	203.97	ADX-99	Private	10.48	27.95	0.02	0.00	Dry Open-Cut	Intermediate	R4UB3x	Ditch	Unknown	
Irrigation Canal (C-4 Lateral)	204.12	ADX-100	18010204001225 BOR	Bore (48.18)	-	0.10	0.00	Bore	Intermediate	R4UB3x	Ditch	Unknown	
Irrigation Canal (C-4-F Lateral)	204.33	ADX-101	18010204001222 BOR	Bore (12.91)	-	0.03	0.00	Bore	Intermediate	R4UB3x	Ditch	Unknown	
Ditch	204.50	ADX-103	Private	-	-	0.00	<0.01	Adjacent to centerline within TEWA	N/A	R4UB3x	Ditch	Unknown	
Ditch No. 3 Drain	204.74	ADX-105	18010204003757 BOR	Bore (17.80)	-	0.05	<0.01	Bore	Intermediate	R4UB3x	Ditch	Unknown	
Irrigation Canal	204.91	ADX-106	Private	7.37	19.65	0.02	0.00	Dry Open-Cut	Minor	R4UB3x	Ditch	Unknown	
Ditch (C-4-C Lateral)	205.50	ADX-109	18010204001218 BOR	Bore (18.28)	-	0.04	<0.01	Bore	Intermediate	R4UB3x	Ditch	Unknown	
<b>Eastern Cascades Slopes and Foothills Ecoregion, Lost River Sub-basin (HUC 18010204), Mills Creek-Lost River (HUC 1801020409) Fifth field Watershed 2, Klamath County, Oregon</b>													
Ditch	205.94	ADX-110	Private	Bore (5.14)	-	0.01	0.01	Bore	Minor	R4UB3x	Ditch	Unknown	
Canal (C Canal)	205.96	ADX-111	18010204004021 BOR	Bore (54.90)	-	0.12	<0.01	Bore	Intermediate	R4UB3x	Ditch	Unknown	
Wetland Ditch	205.97	ADX-112	18010204009070 Private	Bore (39.97)	-	0.09	0.00	Bore	Intermediate	R4UB3x	Ditch	Unknown	
Irrigation Ditch (D-2 Lateral)	206.51	ADX-113	BOR	Bore (23.76)	-	0.05	0.00	Bore	Intermediate	R4UB3x	Ditch	Unknown	
Roadside Drainage Ditch (5-A Drain)	207.26	ADX-115	18010204004039 BOR	Bore (28.61)	-	0.06	0.00	Bore	Intermediate	R4UB3x	Ditch	Unknown	
Irrigation Lateral (C-4-7 Lateral)	207.40	ADX-116	18010204001229 BOR	Bore (15.20)	-	0.03	0.00	Bore	Intermediate	R4UB3x	Ditch	Unknown	
Irrigation Drain 5-A Drain	207.42	ADX-117	18010204001237 BOR	Bore (16.84)	-	0.04	0.00	Bore	Intermediate	R4UB3x	Ditch	Unknown	
Irrigation Drain (5-A Drain)	207.60	ADX-118	18010204001237 BOR	Bore (61.56)	-	0.13	0.00	Bore	Intermediate	R4UB3x	Ditch	Unknown	
Irrigation Drain (5-A Drain)	207.99	ADX-119	18010204001237 BOR	Bore (25.26)	-	0.05	0.00	Bore	Intermediate	R4UB3x	Ditch	Unknown	
Irrigation Ditch	208.07	ADX-120	Private	7.51	20.03	0.02	<0.01	Dry Open-Cut	Minor	R4UB3x	Ditch	Unknown	
Irrigation Ditch	208.07	ADX-121	Private	5.79	15.44	0.01	0.00	Dry Open-Cut	Minor	R4UB3x	Ditch	Unknown	
Drainage Ditch	208.18	ADX-123	18010204001237 BOR	Bore (19.94)	-	0.04	0.00	Bore	Intermediate	R4UB3x	Ditch	Unknown	
Irrigation Drain (5-A Drain)	208.18	ADX-123	18010204001237 BOR	Bore (19.94)	-	0.04	0.00	Bore	Intermediate	R4UB3x	Ditch	Unknown	
Ditch	208.23	ADX-124	Private	8.23	21.95	0.02	0.04	Dry Open-Cut	Minor	R4UB3x	Ditch	Unknown	
Irrigation Ditch	208.28	ADX-125	Private	9.10	24.27	0.02	0.02	Dry Open-Cut	Minor	R4UB3x	Ditch	Unknown	
Irrigation Ditch	208.29	ADX-126	Private	15.48	41.28	0.04	0.01	Dry Open-Cut	Intermediate	R4UB3x	Ditch	Unknown	
Roadside Drainage Ditch	208.78	ADX-128	Private	Bore (12.84)	-	0.03	0.00	Dry Open-Cut	Intermediate	R4UB3x	Ditch	Unknown	
Roadside Drainage Ditch	208.85	ADX-129	Private	48.98	130.61	0.12	0.05	Dry Open-Cut	Intermediate	R4UB3x	Ditch	Unknown	
Irrigation Drain 5-K Drain	209.02	ADX-130	18010204001229 BOR	Bore (24.95)	-	0.06	0.00	Bore	Intermediate	R4UB3x	Ditch	Unknown	

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Roadside Drainage Ditch	209.05	ADX-131	Private	Bore (16.34)	-	0.04	0.00	Bore	Intermediate	R4UB3x	Ditch	Unknown	
Irrigation	209.15	ADX-133	Private	Bore (2.56)	-	0.01	0.00	Bore	Minor	R4UB3x	Ditch	Unknown	
Irrigation Ditch C-9 Lateral	209.15	ADX-134	BOR	Bore (16.03)	-	0.03	0.00	Bore	Intermediate	R4UB3x	Ditch	Unknown	
Irrigation Ditch	209.16	ADX-135	Private	Bore (7.99)	-	0.02	0.00	Bore	Minor	R4UB3x	Ditch	Unknown	
Roadside Ditch	210.16	ADX-142	Private	7.05	18.81	0.02	0.00	Dry Open-Cut	Minor	R4UB3x	Ditch	Unknown	
Irrigation Ditch (No. 5 Drain) (Trib. to Lost River)	210.26	SS-003-001 (ADX-143)	18010204004367 BOR	Bore (17.90)	-	0.04	0.00	Bore	Intermediate	R4UB3x	Ditch	Unknown	
Irrigation Ditch 5-H Drain (Trib. to Lost River)	210.85	ADX-260	18010204015577 BOR	Bore (10.71)	-	0.03	0.00	Bore	Intermediate	R4UB3x	Ditch	Unknown	
Irrigation Ditch	210.87	ADX-261	Private	15.91	42.43	0.04	0.00	Dry Open-Cut Possible Bore	Intermediate	R4UB3x	Ditch	Unknown	
Ditch	211.32	SS-003-002 (NDX-29)	Private	18.13	48.35	0.04	0.00	Dry Open-Cut	Intermediate	R4UB3Cx	Ditch	Unknown	
Ditch	211.34	SS-003-003 (NDX-30)	Private	17.63	47.01	0.04	0.00	Dry Open-Cut	Intermediate	R4UB3Cx	Ditch	Unknown	
Ditch	211.52	NDX-92	Private	8.61	22.93	0.02	0.00	Dry Open-Cut	Minor	R4UB3Cx	Ditch	Unknown	
Ditch	211.67	WW-003-003 (EDX-1)	Private	4.30 <sup>f/</sup>	327.01 <sup>f/</sup>	-	-	Road Improvement Culvert – PAR 211.58	N/A	R4UB3Cx/PEM	Wetland Ditch	Unknown	
Irrigation Ditch	211.53	SS-003-004 (NDX-93)	Private	13.45	35.87	0.03	0.05	Dry Open-Cut	Intermediate	R4UB3Cx	Ditch	Unknown	
Lost River	212.07	SS-003-005 (NSP-1)	18010204004545 State	73.65	196.40	0.16	0.01	Dry Open-Cut Level 1	Intermediate	R3UBH	Perennial	F	Dissolved Oxygen/Year-Round – Cat: 5 (non-spawning) Ammonia/Year-Round – Cat: 5 Chlorophyll a/Summer – Cat: 5 Arsenic/Year-Round – Cat: 5 E.Coli/Summer – Cat: 5 Temperature/Year-Round – Cat: 5 Habitat Modification – Cat: 4C Flow Modification – Cat: 4C
Irrigation Ditch	213.23	ADX-318 EDX055/EDX-90	18010204004940 Private	13.01	34.69	0.03	<0.01	Dry Open-Cut	Intermediate	R4UB3Cx	Ditch	Unknown	
Irrigation Ditch	213.45	ADX 318	18010204004940 Private	-	-	0.00	<0.01	Adjacent to centerline within ROW	Intermediate	R4UB3Cx	Ditch	Unknown	
Irrigation Ditch	213.85	ADX-274	BOR	Bore (13.31)	-	0.03	0.05	Bore	Intermediate	R4UB3Cx	Ditch	Unknown	
G Canal (G Canal)	213.87	ADX-275	18010204001228 BOR	Bore (43.90)	-	0.10	0.00	Bore	Intermediate	R4UB3Cx	Ditch	Unknown	
Pond	214.28	Edge-2	Private	-	-	0.00	0.03	Off ROW Within TEWA	N/A	PUBC3	Depressional Intermittent Pond	N	
Unnamed Creek	216.10	ASI-51	18010204004618 Private	8.07	21.52	0.03	0.00	Dry Open-Cut	Minor	PEMA	Intermittent	Unknown	
Unnamed Creek	216.11	ASI-52	18010204004618 Private	-	-	<0.01	0.00	Adjacent to centerline within ROW	N/A	R4SB1	Intermittent	Unknown	
Unnamed Creek	216.30	ASI-50	18010204004617 Private	10.50	28.00	0.02	0.00	Dry Open-Cut	Intermediate	R4SBC	Intermittent	Unknown	
Unnamed Creek	216.44	ASI-49	18010204004627 Private	6.48	17.28	0.01	0.00	Dry Open-Cut	Minor	R4SBC	Intermittent	Unknown	
Trib. to D Canal	218.09	ASI-136	18010204001993P rivate	22.54	60.11	0.04	0.00	Dry Open-Cut	Intermediate	R4SB1x	Intermittent	Unknown	

TABLE H-3

Waterbodies Affected by the Pipeline (updated May 2018)

Waterbody a/	Approximate Pipeline Milepost	Waterbody ID d/	NHD Waterbody Reach Code e/ / Jurisdiction	Length of Crossing (Feet)	Excavated Volume at Crossing (yds) n/	Acres of Construction ROW in Wetland	Acres of Temporary Extra Work Area in Wetland	Crossing Method <sup>6</sup> Scour Level l/	FERC Classification g/	Cowardin Classification	Stream Type	ODF or NWFP Stream Classification h/,i/	Oregon Department of Environmental Quality Water Quality Limited Streams j/
Trib. to D Canal	218.46	ASI-137	18010204004701 Private	4.31	11.49	0.01	0.00	Dry Open-Cut (Streambed-bedrock) f/	Minor	R4SB1x	Intermittent	Unknown	
Trib. to D Canal	219.69	ASI-291	18010204004701 Private	1.00	2.67	<0.01	0.00	Dry Open-Cut Level 1	Minor	R4UB3C	Intermittent	Unknown	
Excavated Pond	219.70	NL-116	18010204001267 Private	-	-	0.00	0.67	Off ROW Within TEWA	N/A	PAGBx	Depressional Excavated pond	N	
Trib. to V Canal	220.72	SS-502-012	Private	4.18	11.15	0.01	<0.01	Dry Open-Cut	Minor	R4SB2	Intermittent	Unknown	
Trib. to V Canal	221.15	SS-502-013	18010204004906 Private	4.02	10.72	<0.01	0.00	Dry Open-Cut	Minor	R4SB2	Intermittent	Unknown	
Trib. to V Canal	221.15	SS-502-013b	18010204004906 Private	-	-	0.01	0.00	Adjacent to centerline within ROW		R4SB2	Intermittent	Unknown	
Trib. to V Canal	221.30	SS-502-014	18010204004906 Private	4.72	12.59	0.02	<0.01	Dry Open-Cut	Minor	R4SB2	Intermittent	Unknown	
Trib. to V Canal	221.72	SS-502.016	Private	6.16	16.43	0.01	0.00	Dry Open-Cut	Minor	R4SB1	Intermittent	Unknown	
Trib. to V Canal	222.79	SS-502-003b	Private	4.02	10.72	0.01	<0.01	Dry Open-Cut	Minor	R4SB2	Intermittent	Unknown	
Trib. to V Canal	222.80	SS-502-003a	Private	-	-	<0.00	0.00	Adjacent to centerline within ROW		R4SB1	Intermittent	Unknown	
Trib. to V Canal	222.99	SS-502-004	18010204004894 Private	5.76	15.36	0.01	0.00	Dry Open-Cut	Minor	R4SB1	Intermittent	Unknown	
Trib. to V Canal	223.08	SS-502.005	Private	4.07	10.85	0.01	0.00	Dry Open-Cut	Minor	R4SB2	Intermittent	Unknown	
Trib. to V Canal	223.12	SS-502-006	Private	4.21	11.23	0.01	<0.01	Dry Open-Cut	Minor	R4SB2	Intermittent	Unknown	
Trib. to V Canal	223.39	SS-502.023	Private	4.13	11.01	<0.01	0.00	Dry Open-Cut	Minor	R4SB2	Intermittent	Unknown	
Trib. to V Canal	223.54	SS-502-011	Private	7.56	20.16	0.01	0.00	Dry Open-Cut	Minor	R4SB1	Intermittent	Unknown	
Trib. to V Canal	224.03	SS-502-009a	Private	5.07	13.52	0.01	0.00	Dry Open-Cut	Minor	R4SB1	Intermittent	Unknown	
Trib. to V Canal	224.04	SS-502-009	Private	4.53	12.08	0.01	0.00	Dry Open-Cut	Minor	R4SB1	Intermittent	Unknown	
Trib. to V Canal	224.17	SS-502-008	Private	4.37	11.65	0.01	0.00	Dry Open-Cut	Minor	R4SB2	Intermittent	Unknown	
Trib. to V Canal	224.21	SS-502-007	Private	5.27	14.05	0.02	0.00	Dry Open-Cut	Minor	R4SB2	Intermittent	Unknown	
Trib. to V Canal	224.44	SS-502-021	Private	4.33	11.55	0.01	<0.01	Dry Open-Cut	Minor	R4SB3	Intermittent	Unknown	
Trib. to V Canal	225.96	SS-502-025 (ASI-140)	18010204001318 Private	4.21	11.21	0.01	0.00	Dry Open-Cut Level 1	Intermediate	R4SB1	Intermittent	Unknown	
Trib. to V Canal	225.99	SS-502-024	18010204004977 Private	4.02	10.72	0.01	0.00	Dry Open-Cut	Minor	R4SB2	Intermittent	Unknown	
Trib. to V Canal	227.14	SS-502-020	Private	4.09	10.91	0.01	0.00	Dry Open-Cut	Minor	R4SB1	Intermittent	Unknown	
Trib. to V Canal	227.57	SS-502-017	Private	4.04	10.77	0.01	0.00	Dry Open-Cut	Minor	R4SB1	Intermittent	Unknown	
Agricultural Pond	228.13	AL-288	Private	-	-	0.00	0.19	Off ROW Within TEWA	N/A	PAGBx	Depressional Excavated pond	N	
High Line Canal and Capek Reservoir	229.20	EE-WW-8001	Private	-	-	0.00	0.34	Off-Site TEWA Water Source Hydrostatic	N/A	L1UBHh	Lake	Y	
<b>Total</b>				<b>3,222.22</b>	<b>9,518.98</b>	<b>8.46</b>	<b>7.39</b>						

TABLE H-3

Waterbodies Affected by the Pipeline (updated May 2018)

Waterbody a/	Approximate Pipeline Milepost	Waterbody ID d/	NHD Waterbody Reach Code e/ / Jurisdiction	Length of Crossing (Feet)	Excavated Volume at Crossing (yds) n/	Acres of Construction ROW in Wetland	Acres of Temporary Extra Work Area in Wetland	Crossing Method6 Scour Level l/	FERC Classification g/	Cowardin Classification	Stream Type	ODF or NWFP Stream Classification h/,i/	Oregon Department of Environmental Quality Water Quality Limited Streams j/
<p>a/ Ecology and Environment.2013 – March 2018. Pacific Connector Gas Pipeline Updated Wetland Delineation Report. May 2018. National Hydrography Dataset, Jones and Stokes Field Surveys from 2006, 2007, and 2009, StreamNet, LIDAR photo interpretation, and consultation with BLM and Forest Service.</p> <p>b/ USGS Hydrologic Unit Codes, from the WBD</p> <p>c/ Key Watershed</p> <p>d/ Jones and Stokes Wetland Survey Waterbody Identification Number</p> <p>e/ National Hydrography Framework Clearinghouse Waterbody unique identifier number.</p> <p>f/ Streambed bedrock based on Pacific Connector's Wetland and Waterbody delineation surveys (see Table C-3 in the Wetland Delineation Report, submitted as a stand alone report ). Streambed bedrock may require special construction techniques to ensure pipeline design depth. Special construction techniques may include rock hammering, drilling and hammering, or blasting. The need for blasting would be determined by the contractor and would only be initiated after ODFW blasting permits are obtained.</p> <p>g/ Minor waterbody includes all waterbodies less than or equal to 10 feet wide at the water's edge at the time of construction; intermediate waterbody includes all waterbodies greater than 10 feet wide but less than or equal to 100 feet wide at the water's edge at the time of construction; and major waterbody includes all waterbodies greater than 100 feet wide at the water's edge at the time of construction.</p> <p>h/ Oregon Department of Forestry Classifications: F – Fish, D- Domestic, N- none, * Domestic use yet to be determined.</p> <p>i/ Northwest Forest Plan Classifications: fish bearing streams (F), permanently flowing non-fish bearing streams (N), seasonally flowing or Intermittent streams (I), lakes and natural ponds (P). Applies to Forest Service lands only.</p> <p>j/ Source: Oregon Department of Environmental Quality, 2016 Integrated Report GIS coverage (Updated December 2016) Cat: 4A – water quality Limited, TMDL approved, Cat: 4B – water quality limited, other control measures, Cat: 4C – water quality limited, not a pollutant, Cat: 5 – water quality limited, 303(d) list, TMDL needed.</p> <p>k/ Water quality limited within one mile of crossing, not at point of crossing.</p> <p>l/ Level 1 and 2 waterbodies have been identified; all others are Level 0. According to GeoEngineers 2017 Phase II Channel Migration and Scour Analysis for the PCGP Project, channel migration is defined as the lateral movement, over time, of an entire channel segment perpendicular to the direction of stream flow; channel avulsion is the sudden abandonment of an active channel for a newly created or previously abandoned channel located on the floodplain; channel widening is defined as erosion and subsequent recession of one or both stream banks that widens the channel without changing the channel location; streambed scour is erosion of the streambed resulting in the development of deep pools and/or the systematic lowering of the channel floor elevation.                      Level 0 = instreams not likely subject to migration, avulsion and/or scour                      Level 1 = streams with a moderate potential for migration, avulsion and/or scour                      Level 2 = streams with a high potential for migration, avulsion and/or scour</p> <p>m/ These 19 sites were evaluated during the Phase II analysis. They were field reviewed and analyzed for potential migration, avulsion and/or scour (see GeoEngineers 2017 Phase II Channel Migration and Scour Analysis submitted as a stand alone report in the September 2013 FERC Certificate application).</p> <p>n/ Excavated volume calculated using 3 feet of cover for wetland crossings, trapezoidal trench, slope = 0.75:1</p> <p>o/ Total includes acres within Milo Pipe Yard.2. Pond will be avoided.</p> <p>p/ Total includes acres of uncleared storage area. Waterbody will be avoided.</p> <p>q/ Estuary drain will not be impacted by pullback string. These waterbodies will be bridged/spanned.</p> <p>r/ Length crossed on road improvements represents the ordinary high water mark for the stream crossed by the road. Excavated volume is calculated based on the anticipated new culvert installation.</p>													

TABLE H-4						
Shallow Groundwater Areas Crossed by the Pacific Connector Pipeline Project						
SSURGO Soil Mapping Unit	Beginning MP	Ending MP	Length Crossed (miles)	Season of High Groundwater	Typical Depth to Water Table (ft)	Geographic Area
<b>4A - Sitka Spruce Belt</b>						
12	3.03	3.56	0.53	Jan-Dec	0->6ft.	Kentuck Slough Valley
12	6.37	6.45	0.07	Jan-Dec	0->6ft.	
42	8.24	8.42	0.18	Nov-Apr	1.0->6ft	Willanch Slough Valley
12	10.95	11.08	0.13	Jan-Dec	0->6ft.	Coos River Valley
41	11.18	11.31	0.13	Nov-Apr	1.0->6ft	
12	11.31	11.65	0.34	Jan-Dec	0->6ft.	
34	11.65	11.72	0.07	Nov-May	0->6ft.	
34	11.72	11.75	0.03	Nov-May	0->6ft.	
41	11.75	12.03	0.28	Nov-Apr	1.0->6ft	
62	12.03	12.10	0.07	Nov-Mar	0-2 ft	
62	14.63	15.10	0.48	Nov-Mar	0-2 ft	Laxstrom Gluch / Stock Slough Valley
62	15.10	15.21	0.10	Nov-Mar	0-2 ft	
42	15.21	15.23	0.02	Nov-Apr	1.0->6ft	
42	15.23	15.32	0.09	Nov-Apr	1.0->6ft	
42	15.32	15.33	0.01	Nov-Apr	1.0->6ft	
<b>1 - Northern Pacific Coast Range, Foothills, and Valleys</b>						
47B	22.64	22.68	0.04	Oct-May	0->6ft.	N.F. Coquille River Valley
10B	22.68	22.71	0.03	Nov-Mar	1.5->6ft	
47B	22.71	22.86	0.15	Oct-May	0->6ft.	
10A	22.86	23.04	0.18	Nov-Mar	1.5->6ft	
10A	23.03	23.04	0.01	Nov-Mar	1.5->6ft	
47B	24.25	24.29	0.04	Oct-May	0->6ft.	Steinnon Creek Valley
10A	24.29	24.32	0.03	Nov-Mar	1.5->6ft	
47B	24.32	24.39	0.07	Oct-May	0->6ft.	
33	27.00	27.06	0.06	Nov-Apr	3.5->6ft	Middle Creek Valley
10A	27.09	27.13	0.04	Nov-Mar	1.5->6ft	
47B	29.50	29.54	0.04	Oct-May	0->6ft.	E.F. Coquille River Valley
10B	29.54	29.61	0.06	Nov-Mar	1.5->6ft	
47B	29.61	29.64	0.04	Oct-May	0->6ft.	
10B	29.64	29.80	0.16	Nov-Mar	1.5->6ft	
10B	29.84	30.18	0.35	Nov-Mar	1.5->6ft	
10B	30.08	30.28	0.20	Nov-Mar	1.5->6ft	
<b>5 - Siskiyou-Trinity Area</b>						
75C	48.44	48.53	0.10	Dec-April	1.5-3ft.	Deep Creek Valley
188D	49.31	49.41	0.10	Nov-May	0-2.5ft.	Camas Valley
235C	49.41	49.57	0.16	Nov-April	1.5-3ft.	
29A	49.86	50.10	0.24	Nov-May	0->6ft.	
42B	50.10	50.34	0.24	Nov-May	1.5->6ft.	
255C	50.34	50.51	0.17	Nov. - May	48 in.	
44A	50.68	50.76	0.08	Nov-May	0->6ft.	
224B	50.76	50.78	0.03	Oct-June	0.5-5ft	
235D	50.78	50.85	0.06	Nov-April	1.5-3ft.	
151A	51.01	51.05	0.04	Nov. - May	27 in.	Tib to Middle Fork
202B	55.90	55.95	0.05	Nov-May	0.5->6ft.	Ollala Valley
255C	55.99	56.31	0.31	Nov. - May	48 in.	
235C	56.31	56.35	0.04	Nov-April	1.5-3ft.	
255C	56.35	56.43	0.08	Nov. - May	48 in.	
235C	56.43	56.48	0.05	Nov-April	1.5-3ft.	
255C	56.48	56.57	0.09	Nov. - May	48 in.	

TABLE H-4

## Shallow Groundwater Areas Crossed by the Pacific Connector Pipeline Project

SSURGO Soil Mapping Unit	Beginning MP	Ending MP	Length Crossed (miles)	Season of High Groundwater	Typical Depth to Water Table (ft)	Geographic Area
235C	56.57	56.58	0.02	Nov-April	1.5-3ft.	
44A	56.58	56.92	0.33	Nov-May	0->6ft.	
44A	56.91	57.05	0.14	Nov-May	0->6ft.	
188D	57.05	57.15	0.10	Nov-May	0-2.5ft.	
44A	57.15	57.29	0.15	Nov-May	0->6ft.	
255C	57.47	57.55	0.08	Nov. - May	48 in.	
44A	58.01	58.06	0.05	Nov-May	0->6ft.	
235D	58.96	59.27	0.30	Nov-April	1.5-3ft.	
14C	59.41	59.60	0.18	Dec-June	1.0->6ft	
75C	59.78	59.88	0.10	Dec-April	1.5-3ft.	
75E	59.88	60.03	0.15	Dec-April	1.5-3ft.	
188D	60.48	60.55	0.07	Nov-May	0-2.5ft.	
187E	71.00	71.14	0.14	Dec. - Mar	27 in.	South Umpqua River Valley
187E	71.11	71.22	0.11	Dec. - Mar	27 in.	
42B	76.42	76.48	0.06	Nov-May	1.5->6ft.	Bilger Creek Drainage
44A	77.83	77.84	0.01	Nov-May	0->6ft.	Little Lick Creek Drainage
235D	77.84	77.89	0.05	Nov-April	1.5-3ft.	
44A	77.89	77.97	0.08	Nov-May	0->6ft.	
202B	77.97	77.98	0.01	Nov-May	0.5->6ft.	
235D	77.98	78.05	0.06	Nov-April	1.5-3ft.	
202B	78.05	78.05	0.00	Nov-May	0.5->6ft.	
235D	78.05	78.06	0.01	Nov-April	1.5-3ft.	
224B	78.98	79.03	0.05	Oct-June	0.5-5ft	Myrtle Creek Drainage
185D	88.11	88.15	0.04	Dec-April	0-1ft.	Days Creek Valley
14D	88.15	88.17	0.02	Dec-June	1.0->6ft	
185D	88.17	88.21	0.04	Dec-April	0-1ft.	
14D	88.21	88.39	0.18	Dec-June	1.0->6ft	
224B	88.39	88.50	0.11	Oct-June	0.5-5ft	
14D	88.50	88.56	0.06	Dec-June	1.0->6ft	
14D	88.73	88.80	0.07	Dec-June	1.0->6ft	
188D	94.46	94.58	0.13	Nov-May	0-2.5ft.	South Umpqua River Valley
188D	94.79	95.12	0.33	Nov-May	0-2.5ft.	Valley
25	109.16	109.38	0.22			E.F. Cow Creek Drainage
25	109.38	109.81	0.43			
128B	118.84	118.91	0.07	Dec-April	3.0->6ft.	West Fork Trail Creek Valley
154	122.67	122.73	0.06	Jan-Dec	0->6ft.	Rogue River Valley
122E	128.44	128.57	0.39	Dec-March	0.5-1.6ft.	Indian Creek Valley
125C	128.57	128.67	0.11	Dec-March	0.5-1.6ft.	
122E	128.67	128.70	0.02	Dec-March	0.5-1.6ft.	
125C	132.02	132.05	0.02	Dec-March	0.5-1.6ft.	Neil Creek Valley
76A	132.05	132.14	0.10	Dec-May	0->6.0ft.	
125F	132.14	132.32	0.17	Dec-March	0.5-1.6ft.	
125C	132.32	132.49	0.17	Dec-March	0.5-1.6ft.	
76A	132.49	132.54	0.05	Dec-May	0->6.0ft.	
125C	132.54	132.71	0.18	Dec-March	0.5-1.6ft.	
125C	132.68	132.99	0.31	Dec-March	0.5-1.6ft.	
125F	132.99	133.23	0.24	Dec-March	0.5-1.6ft.	
126F	137.94	138.25	0.31	Dec-March	0.5-1.6ft.	Perched water table / disced drainages
27D	138.25	138.39	0.14	Dec-April	3.0-3.5ft.	



TABLE H-4

## Shallow Groundwater Areas Crossed by the Pacific Connector Pipeline Project

SSURGO Soil Mapping Unit	Beginning MP	Ending MP	Length Crossed (miles)	Season of High Groundwater	Typical Depth to Water Table (ft)	Geographic Area
126F	138.39	138.49	0.10	Dec-March	0.5-1.6ft.	
27D	138.49	138.50	0.01	Dec-April	3.0-3.5ft.	
27D	138.53	138.56	0.04	Dec-April	3.0-3.5ft.	
27D	138.61	139.90	1.29	Dec-April	3.0-3.5ft.	
125F	139.90	140.12	0.22	Dec-March	0.5-1.6ft.	
33C	142.28	142.55	0.27	Dec-April	0.5->6ft.	Salt Creek Drainage
122E	144.85	145.18	0.33	Dec-March	0.5-1.6ft.	Little Butte Creek Valley
125C	145.14	145.27	0.13	Dec-March	0.5-1.6ft.	
120C	145.25	145.36	0.12	Dec-March	0.5-1.6ft.	
28D	145.27	145.33	0.06	Dec-April	3.0-3.5ft.	
125F	145.36	145.41	0.05	Dec-March	0.5-1.6ft.	
125C	145.41	145.52	0.11	Dec-March	0.5-1.6ft.	
122E	145.45	145.50	0.05	Dec-March	0.5-1.6ft.	
120C	145.50	145.54	0.04	Dec-March	0.5-1.6ft.	
120C	145.54	145.55	0.01	Dec-March	0.5-1.6ft.	
128B	145.55	145.85	0.29	Dec-April	3.0->6ft.	
128B	145.85	146.00	0.15	Dec-April	3.0->6ft.	
121E	146.00	146.07	0.07	Dec-March	0.5-1.6ft.	
120C	146.07	146.10	0.03	Dec-March	0.5-1.6ft.	
6	162.43	162.50	0.07			S.F Little Butte Creek Valley
<b>21 - Klamath and Shasta Valleys and Basins</b>						
11	168.87	169.09	0.22		Spring	Headwaters Muddy Spring
11	169.08	169.25	0.17		Spring	
11	170.88	171.13	0.26		Spring	
11	171.23	171.24	0.01		Spring	
11	171.43	171.59	0.16		Spring	
40	191.59	192.09	0.50	Jan-Dec	1.0->6ft.	Klamath River Valley
91	192.09	192.17	0.08	Jan-Dec	0.0->6ft.	
40	192.17	192.25	0.08	Jan-Dec	1.0->6ft.	
28	192.25	192.26	0.01	Jan-Dec	1.0->6ft.	
91	192.26	192.28	0.02	Jan-Dec	0.0->6ft.	
91	192.67	192.67	0.01	Jan-Dec	0.0->6ft.	
28	192.67	192.73	0.06	Jan-Dec	1.0->6ft.	
70	192.73	193.10	0.37	Jan-Dec	0.0->6ft.	
40	193.10	193.19	0.09	Jan-Dec	1.0->6ft.	
70	193.19	193.35	0.15	Jan-Dec	0.0->6ft.	
53	193.35	193.57	0.22	Jan-Dec	0.0->6ft.	
40	194.46	194.49	0.03	Jan-Dec	1.0->6ft.	
53	194.49	194.68	0.19	Jan-Dec	0.0->6ft.	
40	194.68	194.78	0.10	Jan-Dec	1.0->6ft.	
38	194.85	194.87	0.02	March-Aug.	3.0->6ft.	
40	194.87	194.87	0.01	Jan-Dec	1.0->6ft.	
36	194.87	194.95	0.08	March-Sept.	2.5->6ft.	
40	194.95	195.33	0.38	Jan-Dec	1.0->6ft.	
78	195.33	195.44	0.11	Jan-Dec	0.0->6ft.	
53	195.44	195.59	0.15	Jan-Dec	0.0->6ft.	
40	195.59	195.68	0.09	Jan-Dec	1.0->6ft.	
53	195.68	195.90	0.23	Jan-Dec	0.0->6ft.	

TABLE H-4

## Shallow Groundwater Areas Crossed by the Pacific Connector Pipeline Project

SSURGO Soil Mapping Unit	Beginning MP	Ending MP	Length Crossed (miles)	Season of High Groundwater	Typical Depth to Water Table (ft)	Geographic Area
28	195.90	196.61	0.71	Jan-Dec	1.0->6ft.	
28	196.51	196.53	0.02	Jan-Dec	1.0->6ft.	
53	196.53	196.64	0.10	Jan-Dec	0.0->6ft.	
28	196.64	196.73	0.09	Jan-Dec	1.0->6ft.	
53	196.73	196.78	0.05	Jan-Dec	0.0->6ft.	
28	196.78	197.03	0.25	Jan-Dec	1.0->6ft.	
40	197.03	197.31	0.28	Jan-Dec	1.0->6ft.	
40	197.68	197.86	0.18	Jan-Dec	1.0->6ft.	
40	197.70	197.75	0.05	Jan-Dec	1.0->6ft.	
40	197.86	198.02	0.16	Jan-Dec	1.0->6ft.	
53	198.02	198.19	0.16	Jan-Dec	0.0->6ft.	
40	198.58	198.59	0.01	Jan-Dec	1.0->6ft.	
40	198.59	198.72	0.13	Jan-Dec	1.0->6ft.	
40	199.05	199.13	0.08	Jan-Dec	1.0->6ft.	
78	199.13	199.27	0.14	Jan-Dec	0.0->6ft.	
78	199.27	199.28	0.01	Jan-Dec	0.0->6ft.	
77	199.46	199.51	0.05	Jan-Dec	0.0->6ft.	
77	199.52	199.59	0.08	Jan-Dec	0.0->6ft.	
53	199.59	199.65	0.05	Jan-Dec	0.0->6ft.	
38	199.65	199.93	0.28	March-Aug.	3.0->6ft.	
53	199.93	199.98	0.05	Jan-Dec	0.0->6ft.	
53	199.97	200.03	0.05	Jan-Dec	0.0->6ft.	
38	200.03	200.29	0.27	March-Aug.	3.0->6ft.	
62	200.29	200.39	0.10	Jan-Dec	1.0->6ft.	
62	200.40	200.53	0.13	Jan-Dec	1.0->6ft.	
28	200.53	200.64	0.11	Jan-Dec	1.0->6ft.	
28	200.65	201.44	0.79	Jan-Dec	1.0->6ft.	
53	201.44	201.52	0.08	Jan-Dec	0.0->6ft.	
28	201.52	201.72	0.20	Jan-Dec	1.0->6ft.	
31	205.40	205.53	0.12	Jan-Dec	1.0->6ft.	Lost River Valley
62	208.07	208.30	0.23	Jan-Dec	1.0->6ft.	
31	208.34	208.42	0.08	Jan-Dec	1.0->6ft.	
26	209.19	209.27	0.07	Jan-Dec	1.0->6ft.	
25	209.27	209.33	0.06	Jan-Dec	1.0->6ft.	
26	209.33	209.49	0.16	Jan-Dec	1.0->6ft.	
31	209.49	209.94	0.45	Jan-Dec	1.0->6ft.	
25	209.94	210.20	0.26	Jan-Dec	1.0->6ft.	
36	212.00	212.04	0.05	March-Sept.	2.5->6ft.	
36	212.28	212.33	0.04	March-Sept.	2.5->6ft.	
36	212.53	212.55	0.02	March-Sept.	2.5->6ft.	
29	212.95	213.12	0.17	year-round	10 in.	
40	213.55	213.66	0.11	Jan-Dec	1.0->6ft.	
63	213.70	213.89	0.19	Jan-Dec	1.0->6ft.	

TABLE H-5					
ODEQ Water Quality Limited Streams Crossed by the Pacific Connector Pipeline					
Waterbody	Milepost	Crossing Method	FERC Classification <u>a/</u>	Stream Type	Category 4 or 5 Listing
<b>Coast Range Ecoregion, Coos Subbasin Coos County</b>					
<b>Coos Bay-Frontal Pacific Ocean Watershed, (1710030403)</b>					
Coos Bay	0.28-1.00 and 1.4-3.07	HDD	Major	Estuary	Fecal Coliform/Year-Round – 5
Willanch Slough	8.72R	Dry Open-Cut	Intermediate	Perennial	Fecal Coliform/Year-Round – 5
Echo Creek	11.21R	Dry Open-Cut	Intermediate	Intermittent	Fecal Coliform/Year-Round – 5
Coos River	11.12R	HDD	Major	Perennial	Fecal Coliform/Year-Round – 5
<b>Coast Range Ecoregion, Coquille Subbasin, Coos County</b>					
<b>North Fork Coquille River Watershed (1710030504)</b>					
North Fork Coquille River	23.06	Dry Open-Cut	Intermediate	Perennial	Biological Criteria/Year-Round – 5 Dissolved Oxygen/Year-Round (ns) – 5 Temperature/Year-Round (ns) – 5 Habitat Modification – 4C
Middle Creek	27.04	Dry Open-Cut	Intermediate	Perennial	Temperature/Year-Round (ns) – 5
<b>East Fork Coquille River Watershed (1710030503)</b>					
East Fork Coquille River	29.85	Dry Open-Cut	Intermediate	Perennial	Temperature/Summer – 5 Habitat Modification – 4C
Elk Creek	32.40	Dry Open-Cut	Minor	Perennial	Temperature/Year-Round (ns) – 5
<b>Middle Fork Coquille River Watershed (1710030501)</b>					
Upper Rock Creek	44.21	Dry Open-Cut	Intermediate	Perennial	Temperature/Summer (ns) – 5 Habitat Modification – 4C
<b>Klamath Mountains Ecoregion, Coquille Subbasin, Douglas County</b>					
<b>Middle Fork Coquille River Watershed (1710030501)</b>					
Middle Fork Coquille River	50.28	Dry Open-Cut	Intermediate	Perennial	Dissolved Oxygen/Year-Round – 5 E. Coli/Year Round – 5 Temperature/Summer (ns) – 5 Habitat Modification – 4C
<b>Klamath Mountains Ecoregion, South Umpqua Subbasin, Douglas County</b>					
<b>Olalla Creek-Lookingglass Creek Watershed (1710030212)</b>					
Olalla Creek	58.78	Dry Open-Cut	Intermediate	Perennial	Biological Criteria - 5; Temperature/Year-Round – 4A; Iron/Year-Round – 5 Flow Modification – 4C
<b>Clark Branch-South Umpqua River Watershed (1710030211)</b>					
Kent Creek	63.97	Dry Open-Cut	Intermediate	Perennial	Flow Modification – 4C Habitat Modification – 4C
Rice Creek	65.76	Dry Open-Cut	Major	Perennial	Temperature/Summer (ns) – 4A Habitat Modification – 4C Flow Modification – 4C E. Coli/Summer – 4A
Willis Creek	66.95	Dry Open-Cut	Intermediate	Perennial	Flow Modification – 4C
South Umpqua River	71.27	Direct Pipe Level 2	Major	Perennial	Biological Criteria – 5; Aquatic Weeds or Algae/Summer – 4A; Dissolved Oxygen/Year-Round (ns) – 4A; Dissolved Oxygen/May 15-Oct 15 (s) – 5 Temperature/Year-Round (ns) – 5; Chlorophyll a/Summer – 4A; E Coli/Summer – 4A; pH/Summer – 4A Chlorine/Year-Round – 4B Flow Modification – 4C Habitat Modification – 4C

TABLE H-5 (continued)					
ODEQ Water Quality Limited Streams Crossed by the Pacific Connector Pipeline					
Waterbody	Milepost	Crossing Method	FERC Classification <sup>a/</sup>	Stream Type	Category 4 or 5 Listing
<b><u>Myrtle Creek Watershed (1710030210)</u></b>					
Bilger Creek	76.38	Dry Open-Cut	Minor	Perennial	E. Coli/Year-Round – 5 Dissolved Oxygen/Year-Round - 5
North Myrtle Creek	79.12	Dry Open-Cut	Intermediate	Perennial	Biological Criteria/Year-Round – 5 Dissolved Oxygen/Oct. 15-May 15 – 5 Temperature/Year-Round (ns) – 4A; E Coli/Summer – 4A Habitat Modification – 4C Flow Modification – 4C
South Myrtle Creek	81.19	Dry Open-Cut	Intermediate	Perennial	E. Coli/Summer – 5 Dissolved Oxygen/Oct. 15-May 15 – 5 Temperature/Year-Round (ns) – 4A Flow Modification – 4C
<b><u>Days Creek – South Umpqua River Watershed, (1710030205)</u></b>					
Fate Creek	88.48	Dry Open-Cut	Intermediate	Perennial	Temperature/Year-Round (ns) – 4A
Days Creek	88.60	Dry Open-Cut	Intermediate	Perennial	Temperature/Year-Round (ns) – 4A Habitat Modification – 4C Flow Modification – 4C
<b>Cascades Ecoregion, South Umpqua Subbasin, Douglas County</b>					
<b><u>Days Creek – South Umpqua River Watershed (1710030205)</u></b>					
South Umpqua River	94.73	Diverted Open-Cut	Major	Perennial	Dissolved Oxygen/Oct 15-May 15; - 5; Temperature/Year-Round (ns) – 4A; pH/Summer – 4A Flow Modification – 4C Habitat Modification – 4C
<b>Cascades Ecoregion, Upper Rogue Subbasin, Jackson County</b>					
<b><u>Trail Creek Watershed (1710030706)</u></b>					
West Fork Trail Creek	118.89	Dry Open-Cut	Intermediate	Perennial	Dissolved Oxygen/Summer – 5 Flow Modification – 4C
<b><u>Shady Cove-Rogue River Watershed (1710030707)</u></b>					
Rogue River	122.65	HDD	Major	Perennial	pH/Summer – 5 Mercury -- 5
<b><u>Little Butte Creek Watershed (1710030708)</u></b>					
Lick Creek	140.27	Dry Open-Cut	Intermediate	Intermittent	Dissolved Oxygen/Summer - 5; Biological Criteria/Year-Round - 5 E Coli/Summer - 4A
Salt Creek	142.57	Dry Open-Cut	Intermediate	Perennial	E Coli/Year-Round - 4A
North Fork Little Butte Creek	149.65	Dry Open-Cut	Intermediate	Perennial	Temperature/Summer – 4A; E Coli/Year-Round – 4A pH/Summer - 5
<b>Eastern Slopes Ecoregion, Upper Rogue Subbasin, Jackson County</b>					
<b><u>Little Butte Creek Watershed, (1710030708)</u></b>					
South Fork Little Butte Creek	162.45	Dry Open-Cut	Intermediate	Perennial	Temperature/Summer -4A <sup>b/</sup> ; E Coli/Summer – 4A <sup>b/</sup> ; Sedimentation – 5 <sup>b/</sup> Habitat Modification – 4C <sup>b/</sup> Flow Modification – 4C <sup>b/</sup>
<b>Eastern Slopes Ecoregion, Upper Klamath River Subbasin, Klamath County</b>					
<b><u>Spencer Creek Watershed (1801020601)</u></b>					
Spencer Creek	171.07	Dry Open-Cut	Minor	Intermittent	Biological Criteria - 5; Sedimentation - 5; Temperature/Year-Round - 5 Habitat Modification – 4C Flow Modification – 4C

TABLE H-5 (continued)					
ODEQ Water Quality Limited Streams Crossed by the Pacific Connector Pipeline					
Waterbody	Milepost	Crossing Method	FERC Classification <sup>a/</sup>	Stream Type	Category 4 or 5 Listing
Clover Creek	171.76	Dry Open-Cut	Minor	Intermittent	Sedimentation – 5 Habitat Modification – 4C
<b>Eastern Slopes Ecoregion, Lost River Subbasin, Klamath County</b>					
<b>Lake Ewauna-Klamath River Watershed (1801020412)</b>					
Klamath River	199.38	HDD	Major	Perennial	Dissolved Oxygen/Year-Round (ns) - 5; Ammonia/Year-Round - 5; Chlorophyll a/Summer - 5; pH/Summer - 5 Arsenic/Year-Round – 5 Habitat Modification – 4C Flow Modification – 4C
<b>Eastern Slopes Ecoregion, Lost River Subbasin, Klamath County</b>					
<b>Mills Creek – Lost River Watershed (1801020409)</b>					
Lost River	212.07	Dry Open-Cut	Major	Perennial	Dissolved Oxygen/Year-Round (ns) - 5; Ammonia/Year-Round - 5; Chlorophyll a/Summer – 5 Arsenic/Year-Round – 5 E. Coli/Summer – 5 Temperature/Year-Round – 5 Habitat Modification – 4C Flow Modification – 4C
<p><sup>a/</sup> Minor waterbody includes all waterbodies less than or equal to 10 feet wide at the water's edge at the time of construction; intermediate waterbody includes all waterbodies greater than 10 feet wide but less than or equal to 100 feet wide at the water's edge at the time of construction; and major waterbody includes all waterbodies greater than 100 feet wide at the water's edge at the time of construction.</p> <p><sup>b/</sup> Water quality limited within one mile of crossing, not at point of crossing.</p> <p>ns – non-spawning</p>					