

Appendix E

Dominant Process Indicator and Reach Summary Data Sheets

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- Main Stem Reach Data
- Tributary Reach Data

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Appendix E: Lynn Creek Mainstem Reach Data

Reach Name	LCR005	LCR010	LCR015	LCR020
Channel Length	8413	4119	2486	1460
Valley Length	8308	3775	2479	1459
Reach Sinuosity	1.01264	1.09113	1.00282	1.00069
Dominant Process	Incision	Incision	Incision	Managed Swale
Indicators of Dynamic Equilibrium				
No persistent scour or erosion features	-	-	-	-
Bankfull shelf along one or both banks	-	-	-	-
Gradually sloping banks	-	-	-	-
Herbaceous vegetation growing at or near the water surface	-	-	-	-
Well established woody vegetation on healed failure surfaces	-	-	-	-
Vegetated consolidated bars	-	-	-	-
Consolidated bed material	-	-	-	-
Imbricated rock bed material	-	-	-	-
De facto grade controls reinforcing knickpoints	-	-	-	-
Healthy riparian corridor and canopy cover	-	-	-	-
Indicators of Incision				
V" or "U" shaped channel cross section	TRUE	TRUE	TRUE	-
Persistent scouring on both banks toe to mid slope	TRUE	TRUE	TRUE	-
Wedge failures along both banks	TRUE	TRUE	-	-
Steep near vertical banks	TRUE	TRUE	TRUE	-
Perched bankfull floodplain or abandoned terraces	-	-	TRUE	-
Knickpoints and knickzones occurring in channel profile	TRUE	TRUE	TRUE	-
Steep bed slope	-	TRUE	-	-
Scoured bed material	TRUE	TRUE	TRUE	-
Consolidated bed material Incision	TRUE	TRUE	TRUE	-
Frequent large woody debris jams	-	-	-	-
Lower limit of woody vegetation high with exposed roots	TRUE	TRUE	TRUE	-
Undercut or perched infrastructure	TRUE	TRUE	TRUE	-
Indicators of Widening				
Wide "U" shaped channel cross section	TRUE	-	-	-
Increase in cross sectional area	-	-	-	-
Increase in channel width and decrease in bank height from upstream	-	-	-	-
Scouring or bank failures along both banks	TRUE	-	-	-
Persistent scouring on both banks mid to upper slope	-	-	-	-
Residual failure material at bank toes	-	-	-	-
Unconsolidated depositional bed material widening	-	-	-	-
Depositional center bars	-	-	-	-
Unconsolidated depositional sediment bars	-	-	-	-
Reinforced knickpoints and knickzones	TRUE	-	-	-
Large woody debris jams	-	-	-	-
Lower limit of woody vegetation high with exposed roots	TRUE	-	-	-
Numerous surfing or overhanging trees	TRUE	-	-	-
Indicators of Plan Form Adjustment				
Cutbanks with active scour lines opposite of advancing bar formations	-	-	-	-
Circular failures along alternating banks or at the outside of banks	-	-	-	-
Alternating pattern of scour and deposition	-	-	-	-
Bar formations are consolidated with an unconsolidated leading edge	-	-	-	-
Bar material unsorted with fines downstream	-	-	-	-
Bar is irregularly shaped and more than 1 3 across the channel	-	-	-	-
Poorly sorted bed material	-	-	-	-
Notes - numbers in the notes rows are data codes corresponding to the observed indicators. these codes are displayed as "TRUE" in the above indicators of dynamic equilibrium	reach is grade controlled and will fail to stable.	-	being held up by frequent reno mat gcs at utility xings	managed concrete swale

Field Observations and Data Input

Appendix E: Lynn Creek Tributary Reach Data

Reach Name	LC005R005	LC005R010	LC010R005	LC010R006	LC010R010	LC010R015
Channel Length	1431	1396	2399	283	426	422
Valley Length	1386	1392	2368	283	284	396
Reach Sinuosity	1.03247	1.00287	1.01309	1	1.5	1.06566
Dominant Process	Incision	Managed Swale	Dynamic Equilibrium	Dynamic Equilibrium	Managed Swale	Dynamic Equilibrium
Indicators of Dynamic Equilibrium						
No persistent scour or erosion features	-	TRUE	TRUE	TRUE	-	TRUE
Bankfull shelf along one or both banks	-	-	TRUE	TRUE	-	TRUE
Gradually sloping banks	-	TRUE	TRUE	TRUE	-	TRUE
Herbaceous vegetation growing at or near the water surface	-	-	TRUE	TRUE	-	TRUE
Well established woody vegetation on healed failure surfaces	-	-	-	-	-	TRUE
Vegetated consolidated bars	-	-	-	-	-	-
Consolidated bed material	-	TRUE	TRUE	TRUE	-	TRUE
Imbricated rock bed material	-	-	-	-	-	-
De facto grade controls reinforcing knickpoints	-	-	TRUE	TRUE	-	TRUE
Healthy riparian corridor and canopy cover	-	-	-	-	-	-
Indicators of Incision						
V" or "U" shaped channel cross section	TRUE	-	-	-	-	-
Persistent scouring on both banks toe to mid slope	TRUE	-	-	-	-	-
Wedge failures along both banks	TRUE	-	-	-	-	-
Steep near vertical banks	TRUE	-	-	-	-	-
Perched bankfull floodplain or abandoned terraces	-	-	-	-	-	-
Knickpoints and knickzones occurring in channel profile	TRUE	-	-	-	-	-
Steep bed slope	TRUE	-	-	-	-	-
Scoured bed material	TRUE	-	-	-	-	-
Consolidated bed material Incision	TRUE	-	-	-	-	-
Frequent large woody debris jams	TRUE	-	-	-	-	-
Lower limit of woody vegetation high with exposed roots	TRUE	-	-	-	-	-
Undercut or perched infrastructure	TRUE	-	-	-	-	-
Indicators of Widening						
Wide "U" shaped channel cross section	TRUE	-	-	-	-	-
Increase in cross sectional area	TRUE	-	-	-	-	-
Increase in channel width and decrease in bank height from upstream	-	-	-	-	-	-
Scouring or bank failures along both banks	TRUE	-	-	-	-	-
Persistent scouring on both banks mid to upper slope	TRUE	-	-	-	-	-
Residual failure material at bank toes	-	-	-	-	-	-
Unconsolidated depositional bed material widening	-	-	-	-	-	-
Depositional center bars	-	-	-	-	-	-
Unconsolidated depositional sediment bars	-	-	-	-	-	-
Reinforced knickpoints and knickzones	-	-	-	-	-	-
Large woody debris jams	TRUE	-	-	-	-	-
Lower limit of woody vegetation high with exposed roots	TRUE	-	-	-	-	-
Numerous surfing or overhanging trees	-	-	-	-	-	-
Indicators of Plan Form Adjustments						
Planform Adjustment meander advance and lateral migration	-	-	-	-	-	-
Cutbanks with active scour lines opposite of advancing bar formations	-	-	-	-	-	-
Circular failures along alternating banks or at the outside of banks	-	-	-	-	-	-
Alternating pattern of scour and deposition	-	-	-	-	-	-
Bar formations are consolidated with an unconsolidated leading edge	-	-	-	-	-	-
Bar material unsorted with fines downstream	-	-	-	-	-	-
Bar is irregularly shaped and more than 1/3 across the channel	-	-	-	-	-	-
Poorly sorted bed material	-	-	-	-	-	-
Notes - numbers in the notes rows are data codes corresponding to the observed indicators. these codes are displayed as "TRUE" in the above indicators of dynamic equilibrium	-	-	-	-	-	-

Field Observations and Data Input

Appendix E: Lynn Creek Tributary Reach Data

Reach Name	LC015R005	LC015R010	LC020R005	LC025R005
Channel Length	1911	339	2756	1585
Valley Length	1806	338	2737	1510
Reach Sinuosity	1.05814	1.00296	1.00694	1.04967
Dominant Process	Dynamic Equilibrium	Managed Swale	Incision	Managed Swale
Indicators of Dynamic Equilibrium				
No persistent scour or erosion features	TRUE	-	-	-
Bankfull shelf along one or both banks	TRUE	-	-	-
Gradually sloping banks	TRUE	-	-	-
Herbaceous vegetation growing at or near the water surface	TRUE	-	-	-
Well established woody vegetation on healed failure surfaces	TRUE	-	-	-
Vegetated consolidated bars	-	-	-	-
Consolidated bed material	TRUE	-	-	-
Imbricated rock bed material	-	-	-	-
De facto grade controls reinforcing knickpoints	-	-	-	-
Healthy riparian corridor and canopy cover	TRUE	-	-	-
Indicators of Incision				
V" or "U" shaped channel cross section	TRUE	-	TRUE	-
Persistent scouring on both banks toe to mid slope	-	-	TRUE	-
Wedge failures along both banks	-	-	-	-
Steep near vertical banks	-	-	TRUE	-
Perched bankfull floodplain or abandoned terraces	-	-	-	-
Knickpoints and knickzones occurring in channel profile	-	-	TRUE	-
Steep bed slope	-	-	TRUE	-
Scoured bed material	TRUE	-	TRUE	-
Consolidated bed material incision	-	-	TRUE	-
Frequent large woody debris jams	-	-	-	-
Lower limit of woody vegetation high with exposed roots	-	-	TRUE	-
Undercut or perched infrastructure	-	-	TRUE	-
Indicators of Widening				
Wide "U" shaped channel cross section	-	-	-	-
Increase in cross sectional area	-	-	-	-
Increase in channel width and decrease in bank height from upstream	-	-	-	-
Scouring or bank failures along both banks	-	-	-	-
Persistent scouring on both banks mid to upper slope	-	-	-	-
Residual failure material at bank toes	-	-	-	-
Unconsolidated depositional bed material widening	-	-	-	-
Depositional center bars	-	-	-	-
Unconsolidated depositional sediment bars	-	-	-	-
Reinforced knickpoints and knickzones	-	-	-	-
Large woody debris jams	-	-	-	-
Lower limit of woody vegetation high with exposed roots	-	-	-	-
Numerous surfing or overhanging trees	-	-	-	-
Indicators of Plan Form Adjustments				
Planform Adjustment meander advance and lateral migration	-	-	-	-
Cutbanks with active scour lines opposite of advancing bar formations	-	-	-	-
Circular failures along alternating banks or at the outside of banks	-	-	-	-
Alternating pattern of scour and deposition	-	-	-	-
Bar formations are consolidated with an unconsolidated leading edge	-	-	-	-
Bar material unsorted with fines downstream	-	-	-	-
Bar is irregularly shaped and more than 1/3 across the channel	-	-	-	-
Poorly sorted bed material	-	-	-	-
Notes - numbers in the notes rows are data codes corresponding to the observed indicators. these codes are displayed as "TRUE" in the above indicators of dynamic equilibrium	incising in upper reach, top 1000ft	concrete swale	-	rubber liner is deteriorating.

Field Observations and Data Input

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