

**Table A1: Geomorphic Reach Summary**

<b>Reach Name</b>	<b>Location</b>	<b>Length (m)</b>	<b>Bankfull Width (m)</b>	<b>Bankfull Depth (m)</b>	<b>Channel Substrate</b>	<b>Erosion</b>	<b>Notes</b>
<i>Sheldon Creek</i>							
69	Lake Ontario to Lakeshore Road West	271	5	1	Bedrock, Silt, Concrete	Minor – Some failing bank treatments.	Reach shows high degree hardening. Channel has concrete bed.
70	Lakeshore Road West to confluence with tributary	743	5 – 6	0.8	Cobbles, Gravel, Sand, Silt	Moderate – Exposed outfall headwall, local bank erosion, slumping gabions.	Mild entrenchment but largely well-connected to floodplain.
71	Confluence with tributary to Burloak Drive	867	4 – 5	0.6	Bedrock, Cobbles, Gravel, Sand, Silt	Moderate – Some local bank erosion. Creek shows evidence of widening.	Lots of bioengineering in this reach – rock toe with willow plantings and wing deflector with rock weirs.
<i>Fourteen Mile Creek</i>							
1a	Lake Ontario to Lakeshore Road West	492	8	0.8	Silt, Bedrock, Clay	Moderate – Evidence of aggradation, widening, and degradation.	Armourstone bank protection is undermined. Depositional lateral bars and some medial bars. Looks dredged at lake.
1	Lakeshore Road West to Rebecca Street	572	7	1.5	Bedrock, Boulders, Cobbles, Gravel, Sand, Silt	Low – Some exposed shale bed.	Majority of channel lined with concrete banks and armourstone walls. Some concrete panels are undermined. Dolomite and shale riffles.
2	Rebecca Street to pedestrian bridge	415	6	1.5	Boulders, Cobbles, Gravel, Sand, Silt	Low – Constructed channel.	Armourstone lining walls both banks.
3	Pedestrian bridge to Warminster Drive	511	6 – 10	0.8	Bedrock, Boulders, Cobbles, Gravel, Sand, Silt	Moderate – Evidence of widening, some degradation.	Gabions are failing and the stream is widening where there are no gabions. Valley wall erosion and large amounts of woody debris.

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4	Warminster Drive to Bridge Road	276	6	1.0	Boulders, Cobbles, Gravel, Sand, Silt	Minor – Evidence of degradation.	Large rip rap boulder and gabion bank protection. Gabions are failing. Deep pools and medial bars.
5	Bridge Road to Speers Road	667	8 – 15	1.0 – 1.5	Bedrock, Boulders, Cobbles, Gravel, Sand, Silt	Moderate – Degradation and widening. Knickpoints.	Gabion lined channel with minor failure. Island in downstream portion of channel. Beaver dam at concrete river crossing has created a pond immediately downstream of Speers Road. Neighbours report steady beaver activity.
5a	Speers Road to Third Line/QEW Exit	672	6	0.5	Bedrock, Boulders, Cobbles, Gravel, Sand, Silt	Minor – Evidence of degradation. Localized bank erosion.	Downstream of railroad is privately owned and gabions are failing. Upstream of railroad is a wooded corridor with good variety of habitat and biological health.
5b	Third Line/QEW Exit to confluence of Reaches 9 and 72, north of North Service Road	757	6 – 8	1.0	Bedrock, Boulders, Cobbles, Gravel, Sand, Silt	Moderate – Degradation.	Failing gabions, sediment deposition on floodplain, some depositional bars.
72	Confluence with Reach 9 north of North Service Road to approximately 600 m upstream of the North Service Road where forest changes to more scrub	597	8	0.6	Bedrock, Cobbles, Gravel, Sand, Silt	Moderate – Planform adjustment. Erosion on outer bends where stream contacts valley wall.	Channel is in a wide valley with mature deciduous forest. Fractured shale.

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73	Approximately 600 m upstream of the North Service Road (where forest changes to more scrub) to the outfall from Carpenters Circle	745	8	0.6	Bedrock, Boulders, Cobbles, Gravel, Sand, Silt	Moderate – Planform adjustment, erosion of shale at valley contact.	Wide valley with well-connected floodplain access, younger forest, several failed log revetments, side channel has formed. Overland flow from upstream beaver dam. Lots of woody debris.
74	Outfall from Carpenters Circle to confluence of Reaches 75 and 8	1191	7	0.6	Bedrock, Cobbles, Gravel, Sand, Silt	Moderate – Valley wall erosion.	Backwater from beaver dam. Depositional bars, chutes, and cut-off channels. Failed log revetment bank protection throughout.
75	Confluence with Reach 8 to confluence with Reaches 76 and 75a	495	7	0.6	Bedrock, Cobbles, Gravel, Sand, Silt	Moderate – Planform adjustment	Cut-offs developed, fractured shale bed.
75a	Confluence with Reach 76 to Upper Middle Road	631	5	0.8	Bedrock, Boulders, Cobbles, Gravel, Sand, Silt	Moderate – Some failing fences and debris jam causing overland flow.	Reach can be subdivided into three sections with a wooded corridor and shale bed with meandering form, a constructed channel with riprap and live stakes, and scrubby brush with bank erosion and debris jams.
75b	Upper Middle Road to outfall from Spring Meadow Way SWM pond	2340	3	0.4	Bedrock, Cobbles, Gravel, Sand, Silt	Minor – Recreation trail is at risk from erosion in one location, some bank slumping.	Transitions from meandering form in wooded area to constructed riffle-pool form controlled by herbaceous vegetation.
75c	Outfall from Spring Meadow Way pond to Dundas Street West	958	1.5 – 2	0.3 – 0.6	Cobbles, Gravel, Sand, Silt	Low – Constructed channel with some deep pools.	Cattails in channel. Channel is vegetation controlled.

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76	Confluence with 75a to Upper Middle Road	613	7	0.6	Bedrock, Cobbles, Gravel, Sand, Silt	Minor – Failed bank treatments.	Bars of fractured shale, cut-off channels. Several debris jams.
76aa	Upper Middle Road to Bronte Road	365	7	1.0	Gravel, Sand, Silt	Minor – Some valley wall erosion.	Water was opaque. Several bank treatments from SWM pond and bioretention facility. Some deep pools.
76ab	Bronte Road to confluence of Reaches 76a and 76e (west of Rochester Circle)	495	1.5	0.5	Cobbles, Gravel, Sand, Silt	Minor – Bank slumping throughout, some bank erosion, but well-connected to floodplain.	Bank treatments along this reach are holding well.
76a	Colonel William Parkway to Stockbridge Avenue	788	2	0.4	Cobbles, Silt	Low – Straightened/constructed channel.	Flow appears to be intermittent. Vegetation is well-established.
76b	Stocksbridge Avenue to edge of forest where meadow begins	378	4	0.3	Bedrock, Cobbles, Gravel, Sand, Silt	Moderate – Outside bend erosion, bedrock exposed on some banks.	Mature woodlot with many footpaths along creek banks furthering erosion.
76c	Extends through meadow into agricultural field	485	N/A	N/A	N/A	N/A	Agricultural drainage swale is beginning to be developed.
76d	Agricultural field to Dundas Street W	436	N/A	N/A	N/A	N/A	Agricultural drainage swale.
76e	Confluence with 76a (SWM pond west of Rochester Circle) to Dundas Street West	1183	3 – 6	0.4 – 0.6	Boulders, Cobbles, Gravel, Sand, Silt	Moderate – Beaver dam and pond, some leaning trees, cut-off channels, multiple channels from debris jams.	Reach should be split in two with a vegetation-controlled reach and a shale alluvial channel through the woods.

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<i>Fourteen Mile Creek Tributary of Tributary</i>							
6a	Confluence with Reach 9 to Brays Lane	231	2	0.4	Bedrock, Cobbles, Gravel, Sand, Silt	Major – Concrete Block Mat is unravelling. Some large woody debris jams. Lots of bank erosion.	Flow under silt pile, island formation.
6	Brays Lane to outfall from White Lane	316	2	0.4	Concrete Block Mat with deposition	Low.	Poor water quality, very stagnant, algae blooms. Backwatered.
7	Outfall from White Lane to Heritage Way	298	N/A	N/A	N/A	N/A	Not a reach, no defined channel, lowland area upstream of headwaters.
<i>Fourteen Mile Creek Tributary 1</i>							
9	Confluence with Reach 72 to Third Line	437	3	0.5	Cobbles, Gravel, Sand, Silt	Minor – General bank erosion.	Channel downcutting into shale, knickpoints throughout. Wooded and grassy floodplain.
10	Third Line to outfall from Fieldstone Circle	288	2.5	0.4	Cobbles, Gravel, Sand, Silt	Moderate – Gabion/ concrete weir grade control throughout.	Knickpoints have developed at weirs. The weirs are holding but the gabions are starting to fail.
11	Outfall from Fieldstone Circle to Abbeywood Drive	190	3	0.3	Gravel, Sand, Silt	Moderate – Some Gabion/concrete weir grade control. Debris Jams.	Landowners are dumping yard waste and trees in channel which is contributing to debris jams.
12	Abbeywood Drive to transition to steeper grade (near southwest corner of Mapleridge Crescent)	870	6	0.8	Boulders, Cobbles, Gravel, Sand	Major – Valley toe erosion, bank erosion undercutting at fence by recreational trail. Leaning trees and failed riprap bank treatments.	Several dead ash trees in floodplain (Emerald Ash Borer).

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13	Transition to steeper grade (near southwest corner of Mapleridge Crescent) to Third Line	328	3	0.4	Bedrock, Cobbles, Gravel, Sand, Silt	Major – Bank erosion, exposed fencepost footing, erosion towards recreational trail.	Steep grade. Maintenance needed to clean up debris jams.
14	Third Line to Upper Middle Road	815	2.5	0.4	Gravel, Sand, Silt, Clay	Minor – Concrete Block Mat is starting to heave with localized failures.	Straightened and entrenched channel.
14a	Upper Middle Road to Westoak Trails Boulevard	1143	1	0.5	Bedrock, Sand, Silt	Low – Some fallen trees, mostly backwatered. Small section with grade and bank erosion.	Vegetation controlled channel, downstream portion is a cattail wetland.
14b	Westoak Trails Boulevard to Mariposa Road (Mariposa Road to Dundas Street is now a SWM pond)	1056	1.5	0.5	Cobbles, Sand, Silt	Low – Constructed channel with places cobbled.	Mostly backwatered. Cattails and phragmites in channel.
15	Outer meander to Glen Abbey Gate	137	1	0.4	Bedrock, Sand, Silt	Low – Some evidence of degradation.	Reach is a storm outfall channel.
<b><i>McCraney Creek</i></b>							
17	Indian Ridge Trail pedestrian bridge to split flow upstream of first Pilgrims Way crossing	727	4	0.4 – 0.5	Cobbles, Gravel, Sand, Silt, Clay	Major – Eroded and undermined banks, failed bank protection, risk to pathways.	Backwatering and debris in floodplain.
18	Split flow upstream of first Pilgrims Way crossing to Pilgrims Way	855	4	0.4 – 0.5	Cobbles, Gravel, Sand, Silt, Clay	Moderate – Perched Concrete Block Mat, undermining of valley wall, bank erosion.	Many long runs, old channels, and cut-off channels.

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19	Pilgrims Way to Upper Middle Road	497	3	0.4	Gravel, Sand, Silt	Minor – Local bank erosion only at downstream culvert.	Straightened channel with concrete/gabion grade control. Gabions are starting to fail but still holding.
19a	Upper Middle Road to Third Line	1012	2.5	0.4	Cobbles, Gravel, Sand, Silt	Minor – Some local bank erosion.	Constructed channel with placed roundstone and riprap riffles. Limited tree cover.
19b	Third Line to Dundas Street	1323	2.5	0.3	Cobbles, Gravel, Sand, Silt	Minor – Local bank slumps.	Constructed meandering channel. Lots of vegetation in channel. Backwatering.
20	Lake Ontario to Lakeshore Road West	540	7	0.1	Bedrock, Sand, Silt	Minor – Some bank erosion.	Some bank erosion near manicured lawns. Backwatered at lake.
21	Lakeshore Road West to confluence with Glen Oak Creek	356	6	1.0	Bedrock, Boulders, Cobbles, Gravel, Sand, Silt	Major – Degradation and widening as dominant processes.	Severe erosion at drainage channel, undermined bridge with eroded banks, split flow, scour pool and perched outfalls.
22	Confluence with Glen Oak Creek to Bridge Road	452	6	1.0	Cobbles, Gravel, Sand, Silt	Minor – Exposed bedrock and minor bank erosion.	Debris jams and failed gabions at downstream end of Wheldon Avenue culvert.
23	Bridge Road to Pinegrove Road	838	N/A	N/A	N/A	N/A	Not walked – no easements, all private property.
<b><i>Taplow Creek</i></b>							
24	QEW to pedestrian crossing west of Manchester Crescent	620	3.5	0.5	Cobbles, Gravel, Sand, Silt	Moderate – Dominant process is degradation.	Concrete block mat treatments are failing. Lots of woody debris. Areas of local bank erosion.
25	Pedestrian crossing west of Manchester Crescent to Pilgrims Way	296	3	0.4	Boulders, Cobbles, Gravel, Sand, Silt	Moderate – Evidence of widening.	Creek meanders through willow forest. Exposed bedrock, valley wall erosion and local bank erosion throughout. Some concrete block mat unravelling.

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26	Pilgrims Way to pedestrian bridge downstream of Bonnybank Court outfall	326	3	0.4	Cobbles, Gravel, Sand, Silt	Moderate – Evidence of widening.	Lots of woody debris, outside bend erosion. Many old channels. Dead ash trees will become a concern.
27	Pedestrian bridge downstream of Bonnybank Court outfall to northern arm of Pilgrims Way	837	4	0.7	Cobbles, Gravel, Sand, Silt	Minor – Dominant process is widening.	Scrubby wooded corridor with meandering form. Localized outside bend erosion. Scour pool downstream of concrete block mat.
28	Pilgrims Way to Upper Middle Road	521	2.5	0.3	Gravel, Sand, Silt	Low – Straightened/constructed channel.	Vegetation is well established.
<b><i>Glen Oak Creek</i></b>							
30	Confluence with Reach 22 to adjacent to Unsworth Avenue	399	6	1	Boulders, Cobbles, Gravel, Sand, Silt	Moderate – Dominant process is degradation in natural areas of the channel.	High degree of channel hardening in the form of gabion banks and concrete bed. Gabions downstream of concrete are emptying. Local bank erosion and risk to private property.
31	Adjacent to Unsworth Avenue to end of private property where gabions end on the east bank	278	N/A	N/A	N/A	N/A	Private property – no easements.
32	End of private property where gabions end on the east bank to Pinegrove Road	338	5	0.5	Bedrock, Boulders, Cobbles, Gravel, Sand, Silt	Moderate – Failing bank treatments.	Creek flows through park then becomes a long run lined with gabion baskets. Gabions are in poor conditions and need replacing.



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32a	Pinegrove Road to South Service Road	1059	5	0.7	Bedrock, Boulders, Cobbles, Gravel, Sand, Silt	Moderate – Failing bank treatments.	Gabions are failing. Upstream of the gabions up to Speers Road is impassable due to overgrown rose thicket and channel is too deep to wade through.
29a	Confluence with Reach 32 by the railway to Old Abbey Lane	1074	3	0.4	Cobbles, Gravel, Sand, Silt	Moderate – Evidence of aggradation.	Localized bank erosion with locally failed channel hardening. Downstream of the QEW is straightened.
29	Old Abbey Lane to Monks Pass	1124	2.5	1.0	Gravel, Sand, Silt	Moderate – Dominant process is widening.	Channel lined with concrete block mat part of reach. Some localized failure of concrete block mat, but holding otherwise. Valley wall erosion upstream reach. Concrete block mat knickpoint and debris jam.
29b	Monks Pass to Upper Middle Road	1088	3	0.3	Cobbles, Gravel, Sand, Silt	Moderate – Localized bank erosion.	Local bank erosion on outer bends, valley wall scar. Perched channel hardening (concrete block mat) at outfalls and crossings. Debris jams needing maintenance.
96	Confluence with Reach 29 in Old Abbey Lane park to adjacent to Pleasant View Road	216	0.8	0.3	Gravel, Sand, Silt	Moderate – Dominant process is aggradation.	Channel hardening in place for majority of reach. Sedimentation and debris jams.

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97	Adjacent to Pleasant View Road to Dorval Drive	631	3	0.6	Gravel, Sand, Silt	Moderate – Evidence of degradation.	Localized bank erosion and a large amount of debris in the floodplain. Culvert at pedestrian crossing is perched and undermined. Channel is very active but no immediate risk.
<b><i>Shannon's Creek</i></b>							
92	Neyagawa Boulevard to transition to gentler valley adjacent to Marisha Court	429	5	1	Bedrock, Gravel, Sand, Silt	Major – Dominant process is degradation. Gabions are perched and undermined, severe downcutting.	Deep, incised valley with vertical banks. Valley wall erosion but no immediate risk to residences. Woody debris jams, fallen trees, steep grade, fractured shale.
93	Gentler valley adjacent to Marisha Court to River Oaks Boulevard West	183	1.5	0.3	Bedrock, Gravel, Sand, Silt	Moderate – Knickpoints and depositional bars. Some bank erosion.	Narrower channel, less steep valley than downstream. Some debris jams. Entrenched channel.
94	River Oaks Boulevard West to River Glen Boulevard	800	1.5	0.2	N/A	Low.	Meandering channel through woods eventually transiting into swale at upstream end. Low grade, no riffle-pool form.
<b><i>Munn's Creek</i></b>							
33	Culham Street to adjacent to Orsett Street	263	4.5	0.6	Bedrock, Cobbles, Gravel, Sand, Silt, Clay	Major – Shows evidence of widening and degradation.	Vertical wall erosion, failed riprap treatments, failed gabions, lots of woody debris.

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34	Adjacent to Orsett Street to Miller Road	285	4	0.4	Cobbles, Gravel, Sand, Silt	Major – Bank treatments failing, outflanked headwalls and culverts, localized bank erosion almost to the recreational trail.	Ash trees on bank are dying due to Emerald Ash Borer. No regeneration visible yet and ground story is full of invasive plants. When they fall it will destabilize the bank. Fallen armourstone upstream of pedestrian bridge is blocking flow.
35	Miller Road to Upper Middle Road	532	3.5	0.4	Bedrock, Cobbles, Gravel, Sand, Silt	Major – Fallen trees and eroded banks where channel contacts valley wall. Lots of depositional bars.	Residents may be encroaching with fences. Mowing right to the water is causing the bank to destabilize. Yard waste dumping is contributing to the debris jams.
77	Upper Middle Road to River Oaks Boulevard	381	3.5	0.6	Bedrock, Cobbles, Gravel, Sand, Silt, Clay	Moderate – Widening and degradation are the dominant processes.	Erosion throughout the reach, especially at valley wall contact, but no immediate risk to recreational trail. Cutoff channel developing. Several woody debris jams, some needing to be cleared.
78	River Oaks Boulevard to Munn's Avenue	227	4	0.6	Bedrock, Cobbles, Gravel, Sand, Silt, Clay	Moderate – Evidence of widening and degradation.	Failing gabions at outfall and pedestrian crossing. Woody debris and depositional bars throughout.
79	Munn's Avenue to outfall and culverts east of Margot Street	469	3.5	0.5	Riprap	Moderate.	Gabion bed and banks are failing. Armourstone grade control at downstream end of reach is outflanked and undermined.

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80	Outfall and culverts east of Margot Street to River Glen Boulevard	880	0.7	0.3	Gravel, Sand, Silt	Low – Channel is intermittent.	Reach is a cattail marsh with intermittent flow.
81	River Glen Boulevard to Dundas Street	253	0.7	0.3	Gravel, Sand, Silt	Low – Channel is intermittent.	Reach is a cattail marsh with intermittent flow.
<b><i>Morrison Creek (Main)</i></b>							
46	Lake Ontario to Lakeshore Road	257	6	0.4	Bedrock, Gravel, Sand, Silt	Minor – Very little erosion.	Channel is a long run with little riparian cover. Some exposed tree roots, scour pool at concrete weir and outfall with undermined headwall.
47	Lakeshore Road to wooden foot bridge	369	N/A	N/A	N/A	N/A	Not walked – no easements.
48	Wooden foot bridge to Morrison Road	302	N/A	N/A	N/A	N/A	Not walked – no easements.
49	Morrison Road to Colbourne Park adjacent to Botany Hill Road	396	6	0.5	Bedrock, Gravel, Sand, Silt	Moderate.	Some vertical bank erosion. Exposed shale. Undermined outfall. Slumping and undermined gabions but they are holding. Landowner has constructed bank protection with yard waste.
50	Colbourne Park adjacent to Botany Hill Road to storm outfall from Balmoral Place	465	5	0.5	Bedrock, Cobbles, Gravel, Sand, Silt	Moderate – Evidence of widening.	Storm outfall buried in sediment and another that is perched. Vertical bank erosion, erosion towards fence. Large woody debris jam.

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51	Storm outfall from Balmoral Place to confluence of Reaches 52 and 53	318	5	0.5	Cobbles, Gravel, Sand, Silt	Moderate – Evidence of widening.	Bank erosion has caused fence to fall into channel and is putting schoolyard fence at risk. Bank treatments are starting to fail but no immediate risk.
52	Confluence with Reaches 51 and 53 to Cornwall Road	717	4	0.6	Bedrock, Cobbles, Sand, Silt	Minor – Eroded banks but no immediate risk.	Channel piped underground in some areas and straightened in others. Fines deposited everywhere.
52a	Cornwall Road to South Service Road	338	3	0.4	Bedrock, Sand, Silt, Clay	Minor.	Minimal erosion. Evidence of old beaver dam. Roundstone ribs.
53	Confluence with Reaches 51 and 52 to Cornwall Road	454	N/A	N/A	N/A	N/A	Gabion basket at Chartwell Road is slumping but appears intact. No easements rest of reach.
53a	Cornwall Road to South Service Road	455	N/A	N/A	N/A	N/A	No easements.
<b><i>Morrison Creek West</i></b>							
36	Sewell Drive to pedestrian crossing near Kristie Court	548	N/A	N/A	N/A	N/A	Not walked – EA and design underway
37	Pedestrian crossing near Kristie Court to pedestrian crossing near Montclair Drive	613	N/A	N/A	N/A	N/A	Not walked – EA and design underway
38	Pedestrian crossing near Montclair Drive to Upper Middle Road	594	N/A	N/A	N/A	N/A	Not walked – EA and design underway

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82	Upper Middle Road to pond adjacent to Nipigon Drive	446	0.5	3	Cobbles, Gravel, Sand, Silt, Clay	Moderate – Evidence of aggradation.	Gabions have failed at downstream end. Beaver dam mid-reach (does not look active). Several willow root knickpoints. Meandering form with outside bend erosion.
83	Pond adjacent to Nipigon Drive to River Oaks Boulevard	188	0.8	3.5	Cobbles, Gravel, Sand, Silt, Clay	Moderate – Dominant process is aggradation.	Split flow upstream on pond area. Several woody debris jams. Concrete block mat at River Oaks is perched.
84	River Oaks Boulevard to scrubby forest transition adjacent to Grand Ravine Drive	340	3	0.4	Cobbles, Gravel, Sand, Silt, Clay	Moderate – Dominant process is aggradation.	Meandering form through scrubby forest of willows and buckthorn. Localized failure of rip rap protection. Local valley wall erosion.
85	Scrubby forest adjacent to Grand Ravine Drive to beginning of roundstone channel.	534	2.5	0.4	Bedrock, Cobbles, Gravel, Sand, Silt	Moderate – Evidence of aggradation.	Local bank erosion but houses set back and no immediate risk. Failed bank treatments.
86	Roundstone channel Glenashton Drive.	505	2	0.2	Cobbles	Minor – Some side channels have developed.	Constructed roundstone channel. Creek flows over the roundstone in some areas and through it in other areas.
<b><i>Morrison Creek East</i></b>							
39	Diversion channel to pedestrian bridge	176	10	1.2	Bedrock, Cobbles, Gravel, Sand, Silt	Moderate – Dominant process is widening.	Creek is over-widened and incised with near vertical banks. Exposed tree roots and leaning trees. Failed rip rap bank treatments.

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40	Pedestrian bridge to storm outfall from White Oaks Boulevard	699	9 – 10	1.2	Bedrock, Cobbles, Gravel, Sand, Silt	Major – Dominant process is widening.	Erosion and widening throughout reach. Gabion basket bank protection is outflanked and failing in many spots. Eroded slope material covers gabions giving them a buried appearance. Valley wall erosion at toe contact. Debris jams and knickpoints throughout.
41	Storm outfall from White Oaks Boulevard to storm outfall from Litchfield Road	680	7	0.5	Bedrock, Cobbles, Gravel, Sand, Silt	Moderate – Evidence of widening.	Channel meanders through wooded valley. No immediate erosion risks but erosion will eventually impact recreational trail and slope stability. Localized bank protection is failing.
42	Storm outfall from Litchfield Road to Upper Middle Road	522	7	0.5	Bedrock, Boulders, Cobbles, Gravel, Sand, Silt	Moderate – Evidence of widening.	Channel continues through wooded valley. Valley wall erosion at toe contact. Possible erosion risk to parking lot in future. Localized failure of gabions at outfall. Knickpoints present.
43	Upper Middle Road to storm outfall from Laurelwood Drive	619	6	0.5	Bedrock, Cobbles, Gravel, Sand, Silt	Major – Dominant process is widening.	Gabion baskets are undermined, outflanked, slumping, and emptying in spots. Eroded slope material covers the baskets. Valley wall erosion to toe contact where no gabions. Failed storm outfall channel at upstream end. Garbage and yard waste dumping throughout.

**Table A1: Geomorphic Reach Summary**

<b>Reach Name</b>	<b>Location</b>	<b>Length (m)</b>	<b>Bankfull Width (m)</b>	<b>Bankfull Depth (m)</b>	<b>Channel Substrate</b>	<b>Erosion</b>	<b>Notes</b>
44	Storm outfall from Laurelwood Drive to start of scrubby riparian area adjacent to Glenashton Drive	532	5 - 6	0.5	Bedrock, Cobbles, Gravel, Sand, Silt	Major – Dominant process is widening.	Failing gabions throughout reach. Gabion mats at storm outfalls are emptying into channel. Yard waste dumping.
45	Start of scrubby riparian area adjacent to Glenashton Drive to Postridge Drive	780	4	0.5	Bedrock, Cobbles, Gravel, Sand, Silt	Moderate – Dominant process is widening.	Several debris jams. Semi-alluvial fractured shale system with meandering riffle-pool form. Valley toe erosion impacting pedestrian bridge abutment.
<b><i>Wedgewood Creek</i></b>							
55a	Lake Ontario to Lakeshore Road East	181	3	1.5	Cobbles, Gravel, Sand, Silt	Major – Widespread failure of bank treatments.	Channel is straightened and lined with stone walls. Walls are undermined and sections have collapsed into channel downstream.
55	Lakeshore Road East to beginning of gabion baskets	212	4	0.8	Bedrock, Cobbles, Gravel, Sand, Silt	Moderate – Bank erosion impacting private property.	Much of reach has no easements. Bank erosion impacting private property lawn sprinkler system.
56	Beginning of gabion baskets to adjacent to Cedarbrae Drive	691	5	0.7	Bedrock, Cobbles, Gravel, Sand, Silt	Moderate – Failing bank protection.	Stream has been channelized. Gabions are emptying. Outfall requiring maintenance. No easements for part of reach.
57	Adjacent to Cedarbrae Drive to confluence with Reaches 58 and 95 upstream of Devon Road	409	5 – 6	0.4	Cobble, Gravel, Sand	Moderate – Dominant process is widening.	Channel passes through mature forest with good floodplain access. Outside bend erosion. Armourstone and gabion baskets bank treatments are outflanked and failing.



**Table A1: Geomorphic Reach Summary**

<b>Reach Name</b>	<b>Location</b>	<b>Length (m)</b>	<b>Bankfull Width (m)</b>	<b>Bankfull Depth (m)</b>	<b>Channel Substrate</b>	<b>Erosion</b>	<b>Notes</b>
58	Confluence with Reaches 57 and 95 upstream of Devon Road to adjacent to Carla Court	869	N/A	N/A	N/A	N/A	No easements – only road crossing were assessed.
95	Confluence with Reaches 57 and 58 to Cornwall Road	572	N/A	N/A	N/A	N/A	No easements – only road crossing were assessed. Road crossings and/or bank revetments are in poor condition.
59	Morrison-Wedgewood Diversion Channel to the end of the roundstone bank protection just downstream of Grand Boulevard	350	5	0.4	Bedrock, Gravel, Sand, Silt	Moderate – Dominant process is widening.	Knickpoints throughout reach. Some leaning trees. Bank treatments are holding but outflanked at downstream ends. Steep valley through mature forest. Roundstone boulder bank protection upstream is holding well and nicely vegetated.
60	End of the roundstone bank protection just downstream of Grand Boulevard to pedestrian bridge adjacent to Griffith Place	608	4 – 5	0.4	Bedrock, Boulders, Cobbles, Gravel, Sand, Silt	Major – Dominant process is widening.	Gabion grade control at downstream end is failing and emptying in spots. Several debris jams require removal.
61	Pedestrian bridge adjacent to Griffith Place to Upper Middle Road	341	4	0.4	Bedrock, cobbles, Gravel, Sand, Silt	Major – Dominant process is widening.	Stream narrows through this reach. Significant valley wall erosion. Gabions at Upper Middle Road culvert have completely failed. Leaning and fallen trees.

**Table A1: Geomorphic Reach Summary**

<b>Reach Name</b>	<b>Location</b>	<b>Length (m)</b>	<b>Bankfull Width (m)</b>	<b>Bankfull Depth (m)</b>	<b>Channel Substrate</b>	<b>Erosion</b>	<b>Notes</b>
<i>Falgarwood Creek</i>							
54a	Morrison-Wedgewood Diversion Channel to Falgarwood Drive	70	6	1	Bedrock, Gravel, Sand, Silt	Moderate – Major erosion associated with outfall and CSP on slope, but rest of reach exhibits fewer signs of erosion.	Perched culvert, large scour pool, and disconnected section of exposed CSP outfall downstream of Falgarwood Drive.
54	Falgarwood Drive to Gainsborough Drive	611	5	0.5	Boulders	Low – Channel is constructed with armourstone walls and grade control, and riprap beds.	Cracked headwall of culvert upstream of Falgarwood Drive.
<i>Joshua's Creek</i>							
62	Lake Ontario to Lakeshore Road West	252	9	0.7	Bedrock, Cobbles, Gravel, Sand, Silt	Low.	Wooded valley. Meandering riffle/pool form. Some deep pools.
63/64	Lakeshore Road West to culvert and outfalls from Devon Road and Deer Run Avenue	1109	10	0.7	Bedrock, Cobbles, Gravel, Sand, Silt	Moderate – Fallen trees, bank slumping, and localized bank erosion.	No observable reach break between R63 and R64 anymore. Failing armourstone wall and erosion into recreational trail. Good riparian area and connected floodplain in a wooded valley.
65/66	Culvert and outfalls from Devon Road and Deer Run Avenue to start of gabion baskets	897	9	0.7	Bedrock, Cobbles, Gravel, Sand, Silt	Moderate – Slumping bank, island formation, new channel.	Reaches were combined as there was no observable reach break.

**Table A1: Geomorphic Reach Summary**

<b>Reach Name</b>	<b>Location</b>	<b>Length (m)</b>	<b>Bankfull Width (m)</b>	<b>Bankfull Depth (m)</b>	<b>Channel Substrate</b>	<b>Erosion</b>	<b>Notes</b>
67	Start of gabion baskets to concrete weir adjacent to Brook Place	426	4	0.5	Bedrock, Cobbles, Gravel, Sand, Silt	Moderate – Evidence of widening.	Failing gabions and near-vertical wall erosion behind gabions. Riparian area is smaller, channel contained in straightened, narrower corridor.
68	Concrete weir adjacent to Brook Place to Cornwall Road	488	4 – 6	0.3 – 0.5	Bedrock, Cobbles, Gravel, Sand, Silt	Minor – Localized erosion and failing gabions.	Gabion-lined channel, narrower than downstream portion.
68a – 87b	Cornwall Road to Old Ninth Line Bridge	2869	N/A	N/A	N/A	N/A	Not walked (private property – Ford plant).
87	Old Ninth Line Bridge to Upper Middle Road	542	5	0.5	Boulders, Cobbles, Gravel, Sand, Silt	Minor – Some leaning trees.	Generally stable-looking and good connection to floodplain.
88	Upper Middle Road to adjacent to Creekwood Trail	501	6	0.6	Boulders, Cobbles, Gravel, Sand, Silt	Moderate – Some vertical wall erosion, leaning trees.	Several non-native trees and shrubs in the riparian area. Lots of wildlife sightings. Forested/meadow areas.
88a	Confluence with Reach 88 to Rockingham Drive	800	1.5	0.4	Cobbles, Gravel, Sand, Silt	Minor – Localized bank erosion.	Very mucky channel. Riparian area is scrubby and overgrown making it difficult to access the channel in areas. Lots of woody debris in the channel and in the floodplain. Intermittent stream.
88b	Rockingham Drive to Pinery Crescent	739	2	0.2	Gravel, Sand, Silt	Moderate – Incised due to steep valley. Localized bank erosion.	Much steeper grade. Good buffer from channel to trail so no immediate risks.

**Table A1: Geomorphic Reach Summary**

<b>Reach Name</b>	<b>Location</b>	<b>Length (m)</b>	<b>Bankfull Width (m)</b>	<b>Bankfull Depth (m)</b>	<b>Channel Substrate</b>	<b>Erosion</b>	<b>Notes</b>
89	Adjacent to Creekwood Trail to confluence with Reaches 89a and 89b	567	4	0.6	Boulders, Cobbles, Gravel, Sand, Silt	Moderate – Evidence of widening. Falling trees and local bank erosion.	Some large woody debris jams have caused the channel to shift. Island formation.
89a	Confluence to approximately 600m downstream of Dundas Street	679	4	0.6	Boulders, Cobbles, Gravel, Sand, Silt	Moderate – Localized bank erosion and leaning trees.	Gabion baskets upstream of confluence are slumping.
89b	Confluence with Reaches 89 and 89a to Dundas Street	1228	1.8	0.3	Cobbles, Gravel, Sand, Silt	Minor – Some woody debris, minor bank erosion towards path.	Downstream is dominated by forest. Upstream is constructed grassy channel with riprap grade control. Channel is poorly defined in some areas.
89aa	Approximately 600m downstream of Dundas Street to Dundas Street	790	3	0.5	Boulders, Cobbles, Gravel, Sand, Silt	Moderate – Bank slumping in areas that are vegetation controlled.	Fractured shale bed and some depositional bars. Multiple channels developing.
<b><i>Clearview Creek</i></b>							
90	Winston Churchill Boulevard to railway	511	4	0.5	Cobbles, Sand, Silt	Low – No evidence of erosion.	Constructed channel with cobble grade control. Riparian plantings are doing well. The GIS layer does not show the realignment of the channel.
91	Railway to Beryl Road	310	3	1	Cobbles, Gravel, Sand, Silt, Clay	Minor – Perched and exposed outfall, minor bank erosion.	Channel is a straightened, incised ditch with poor water quality. Tires dumped on bank. Left bank has been clear-cut.
91a	Beryl Road to railway	454	N/A	N/A	N/A	N/A	Reach on private property – not walked.

**Table A2: Results of RGA Evaluation by Reach**

<b>Watercourse</b>	<b>Reach</b>	<b>Aggradation</b>	<b>Degradation</b>	<b>Widening</b>	<b>Planform Adjustment</b>	<b>Stability Index</b>	<b>Classification</b>	<b>Dominant Process</b>
Sheldon Creek	R69	0.00	0.33	0.38	0.00	0.18	In Regime	Widening
Sheldon Creek	R70	0.14	0.44	0.50	0.00	0.27	In Transition	Widening
Sheldon Creek	R71	0.14	0.44	0.50	0.14	0.31	In Transition	Widening
Fourteen Mile Creek	R1a	0.57	0.43	0.50	0.00	0.38	In Transition	Aggradation
Fourteen Mile Creek	R3	0.14	0.43	0.63	0.00	0.30	In Transition	Widening
Fourteen Mile Creek	R4	0.14	0.20	0.38	0.14	0.22	In Transition	Widening
Fourteen Mile Creek	R5	0.29	0.50	0.38	0.29	0.36	In Transition	Degradation
Fourteen Mile Creek	R5a	0.29	0.56	0.50	0.14	0.37	In Transition	Degradation
Fourteen Mile Creek	R5b	0.43	0.33	0.50	0.14	0.35	In Transition	Widening
Fourteen Mile Creek	R9	0.14	0.57	0.43	0.43	0.39	In Transition	Degradation
Fourteen Mile Creek	R6a	0.29	0.50	0.43	0.43	0.41	In Adjustment	Degradation
Fourteen Mile Creek	R6	0.57	0.00	0.43	0.43	0.36	In Transition	Aggradation
Fourteen Mile Creek	R10	0.43	0.44	0.25	0.14	0.32	In Transition	Degradation
Fourteen Mile Creek	R11	0.57	0.00	0.38	0.43	0.34	In Transition	Aggradation
Fourteen Mile Creek	R12	0.14	0.67	0.38	0.29	0.37	In Transition	Degradation
Fourteen Mile Creek	R13	0.14	0.43	0.43	0.43	0.36	In Transition	Degradation
Fourteen Mile Creek	R14a	0.29	0.11	0.29	0.29	0.24	In Transition	Widening
Fourteen Mile Creek	R14b	0.43	0.13	0.29	0.29	0.28	In Transition	Aggradation

**Table A2: Results of RGA Evaluation by Reach**

<b>Watercourse</b>	<b>Reach</b>	<b>Aggradation</b>	<b>Degradation</b>	<b>Widening</b>	<b>Planform Adjustment</b>	<b>Stability Index</b>	<b>Classification</b>	<b>Dominant Process</b>
Fourteen Mile Creek	R72	0.14	0.40	0.29	0.29	0.28	In Transition	Degradation
Fourteen Mile Creek	R73	0.29	0.38	0.50	0.29	0.36	In Transition	Widening
Fourteen Mile Creek	R74	0.29	0.40	0.43	0.29	0.35	In Transition	Widening
Fourteen Mile Creek	R75	0.14	0.40	0.43	0.29	0.31	In Transition	Widening
Fourteen Mile Creek	R75a	0.29	0.38	0.43	0.29	0.34	In Transition	Widening
Fourteen Mile Creek	R75b	0.14	0.25	0.43	0.57	0.35	In Transition	Planform Adjustment
Fourteen Mile Creek	R75c	0.14	0.00	0.00	0.29	0.11	In Regime	Planform Adjustment
Fourteen Mile Creek	R76	0.43	0.40	0.43	0.14	0.35	In Transition	Aggradation
Fourteen Mile Creek	R76aa	0.14	0.13	0.43	0.29	0.25	In Transition	Widening
Fourteen Mile Creek	R76ab	0.29	0.11	0.25	0.43	0.27	In Transition	Planform Adjustment
Fourteen Mile Creek	R76b	0.00	0.33	0.57	0.00	0.23	In Transition	Widening
Fourteen Mile Creek	R76e	0.29	0.13	0.71	0.43	0.39	In Transition	Widening
McCraney Creek	R21	0.14	0.80	0.63	0.43	0.50	In Adjustment	Degradation
McCraney Creek	R17	0.57	0.22	0.75	0.14	0.42	In Adjustment	Widening
McCraney Creek	R18	0.43	0.33	0.75	0.43	0.49	In Adjustment	Widening
Taplow Creek	R24	0.29	0.56	0.50	0.14	0.37	In Transition	Degradation
Taplow Creek	R25	0.00	0.38	0.50	0.14	0.25	In Transition	Widening
Taplow Creek	R26	0.29	0.33	0.57	0.14	0.33	In Transition	Widening
Taplow Creek	R27	0.00	0.44	0.57	0.14	0.29	In Transition	Widening
Glen Oak Creek	R30	0.00	0.50	0.50	0.43	0.36	In Transition	Degradation

**Table A2: Results of RGA Evaluation by Reach**

Watercourse	Reach	Aggradation	Degradation	Widening	Planform Adjustment	Stability Index	Classification	Dominant Process
Glen Oak Creek	R32	0.00	0.44	0.50	0.43	0.34	In Transition	Widening
Glen Oak Creek	R29a	0.43	0.25	0.13	0.14	0.24	In Transition	Aggradation
Glen Oak Creek	R29	0.00	0.57	0.57	0.00	0.29	In Transition	Widening
Glen Oak Creek	R29b	0.00	0.56	0.43	0.14	0.28	In Transition	Degradation
Glen Oak Creek	R96	0.86	0.25	0.29	0.14	0.38	In Transition	Aggradation
Glen Oak Creek	R97	1.00	0.38	0.29	0.29	0.49	In Adjustment	Aggradation
Shannon's Creek	R92	0.57	1.00	0.88	0.29	0.68	In Adjustment	Degradation
Shannon's Creek	R93	0.43	0.63	0.50	0.43	0.50	In Adjustment	Degradation
Munn's Creek	R33	0.14	0.71	0.88	0.29	0.50	In Adjustment	Widening
Munn's Creek	R34	0.14	0.38	0.63	0.29	0.36	In Transition	Widening
Munn's Creek	R35	0.57	0.50	0.63	0.29	0.50	In Adjustment	Widening
Munn's Creek	R77	0.43	0.29	0.57	0.43	0.43	In Adjustment	Widening
Munn's Creek	R78	0.57	0.44	0.63	0.29	0.48	In Adjustment	Widening
Morrison Creek	R46	0.57	0.14	0.13	0.29	0.28	In Transition	Aggradation
Morrison Creek	R49	0.29	0.56	0.63	0.29	0.44	In Adjustment	Widening
Morrison Creek	R50	0.29	0.44	0.50	0.29	0.38	In Transition	Widening
Morrison Creek	R51	0.29	0.43	0.50	0.43	0.41	In Adjustment	Widening
Morrison Creek	R52	0.57	0.17	0.57	0.29	0.40	In Transition	Widening
Morrison Creek	R52a	0.57	0.29	0.14	0.43	0.36	In Transition	Aggradation
Morrison Creek	R82	0.71	0.13	0.50	0.14	0.37	In Transition	Aggradation
Morrison Creek	R83	0.57	0.17	0.57	0.14	0.36	In Transition	Aggradation
Morrison Creek	R84	0.71	0.14	0.43	0.29	0.39	In Transition	Aggradation
Morrison Creek	R85	0.43	0.40	0.50	0.29	0.40	In Transition	Widening
Morrison Creek	R39	0.29	0.43	0.75	0.29	0.44	In Adjustment	Widening
Morrison Creek	R40	0.14	0.67	0.75	0.14	0.43	In Adjustment	Widening
Morrison Creek	R41	0.14	0.43	0.78	0.29	0.41	In Adjustment	Widening
Morrison Creek	R42	0.14	0.44	0.78	0.29	0.41	In Adjustment	Widening
Morrison Creek	R43	0.29	0.56	0.75	0.29	0.47	In Adjustment	Widening
Morrison Creek	R44	0.29	0.56	0.75	0.14	0.43	In Adjustment	Widening

**Table A2: Results of RGA Evaluation by Reach**

<b>Watercourse</b>	<b>Reach</b>	<b>Aggradation</b>	<b>Degradation</b>	<b>Widening</b>	<b>Planform Adjustment</b>	<b>Stability Index</b>	<b>Classification</b>	<b>Dominant Process</b>
Morrison Creek	R45	0.43	0.50	0.57	0.29	0.45	In Adjustment	Widening
Wedgewood Creek	R55	0.43	0.14	0.50	0.43	0.38	In Transition	Widening
Wedgewood Creek	R57	0.43	0.11	0.50	0.14	0.30	In Transition	Widening
Wedgewood Creek	R59	0.71	0.67	0.88	0.43	0.67	In Adjustment	Widening
Wedgewood Creek	R60	0.71	0.43	0.75	0.43	0.58	In Adjustment	Widening
Wedgewood Creek	R61	0.43	0.56	0.88	0.43	0.57	In Adjustment	Widening
Joshua's Creek	R62	0.29	0.13	0.29	0.00	0.17	In Regime	Aggradation
Joshua's Creek	R63&64	0.29	0.25	0.50	0.00	0.26	In Transition	Widening
Joshua's Creek	R65&66	0.14	0.56	0.50	0.29	0.37	In Transition	Degradation
Joshua's Creek	R87	0.14	0.25	0.43	0.14	0.24	In Transition	Widening
Joshua's Creek	R88	0.43	0.50	0.43	0.14	0.38	In Transition	Degradation
Joshua's Creek	R88a	0.29	0.00	0.43	0.14	0.21	In Transition	Widening
Joshua's Creek	R88b	0.14	0.00	0.38	0.29	0.20	In Transition	Widening
Joshua's Creek	R89	0.43	0.50	0.38	0.14	0.36	In Transition	Degradation
Joshua's Creek	R89a	0.43	0.33	0.38	0.14	0.32	In Transition	Aggradation
Joshua's Creek	R89aa	0.57	0.14	0.43	0.29	0.36	In Transition	Aggradation
Joshua's Creek	R89b	0.29	0.00	0.43	0.14	0.21	In Transition	Widening



**Table A3: Results of RSAT Evaluation by Reach**

Watercourse	Reach	RSAT Evaluation Category						Total	Verbal Ranking
		1. Channel Stability	2. Channel Scouring/Deposition	3. Physical In-Stream Habitat	4. Water Quality	5. Riparian Habitat Conditions	6. Biological Indicators		
Sheldon Creek	R69	7	3	1	5	3	4	23	Fair
Sheldon Creek	R70	7	5	4	5	4	4	29	Fair
Sheldon Creek	R71	5	5	4	4	3	3	24	Fair
Fourteen Mile Creek	R1a	6	4	4	4	5	4	27	Fair
Fourteen Mile Creek	R3	5	5	6	4	5	4	29	Fair
Fourteen Mile Creek	R4	7	4	4	4	4	4	27	Fair
Fourteen Mile Creek	R5	6	4	5	4	3	4	26	Fair
Fourteen Mile Creek	R5a	5	5	6	5	4	8	33	Good
Fourteen Mile Creek	R5b	4	3	4	4	1	4	20	Fair
Fourteen Mile Creek	R9	4	4	4	4	2	3	21	Fair
Fourteen Mile Creek	R6a	4	2	2	2	2	1	13	Poor
Fourteen Mile Creek	R6	4	1	1	1	1	1	9	Poor
Fourteen Mile Creek	R10	6	3	2	4	3	2	20	Fair
Fourteen Mile Creek	R11	6	4	3	4	3	1	21	Fair
Fourteen Mile Creek	R12	7	5	6	4	5	4	31	Good
Fourteen Mile Creek	R13	7	5	4	4	4	4	28	Fair
Fourteen Mile Creek	R14a	8	3	4	4	2	3	24	Fair
Fourteen Mile Creek	R14b	8	3	4	4	2	3	24	Fair
Fourteen Mile Creek	R72	5	6	7	4	6	5	33	Good
Fourteen Mile Creek	R73	6	5	4	4	6	5	30	Good
Fourteen Mile Creek	R74	6	5	4	4	6	5	30	Good
Fourteen Mile Creek	R75	6	5	4	4	6	5	30	Good
Fourteen Mile Creek	R75a	5	5	4	4	3	4	25	Fair
Fourteen Mile Creek	R75b	6	6	6	6	4	6	34	Good
Fourteen Mile Creek	R75c	7	6	5	6	4	4	32	Good
Fourteen Mile Creek	R76	6	5	4	4	6	5	30	Good

**Table A3: Results of RSAT Evaluation by Reach**

Watercourse	Reach	RSAT Evaluation Category						Total	Verbal Ranking
		1. Channel Stability	2. Channel Scouring/Deposition	3. Physical In-Stream Habitat	4. Water Quality	5. Riparian Habitat Conditions	6. Biological Indicators		
Fourteen Mile Creek	R76aa	6	5	2	3	2	1	19	Fair
Fourteen Mile Creek	R76ab	4	4	4	4	3	4	23	Fair
Fourteen Mile Creek	R76b	4	4	4	4	3	4	23	Fair
Fourteen Mile Creek	R76e	2	4	5	4	3	4	22	Fair
McCraney Creek	R21	4	2	2	3	2	3	16	Fair
McCraney Creek	R17	4	4	5	4	4	4	25	Fair
McCraney Creek	R18	4	5	4	4	4	4	25	Fair
Taplow Creek	R30	2	2	2	3	2	3	14	Poor
Taplow Creek	R32	3	2	2	3	2	3	15	Poor
Taplow Creek	R24	5	2	2	3	3	2	17	Fair
Taplow Creek	R25	4	3	3	3	3	3	19	Fair
Taplow Creek	R26	3	2	3	4	4	3	19	Fair
Taplow Creek	R27	4	2	3	4	3	3	19	Fair
Glen Oak Creek	R29a	5	2	2	4	2	2	17	Fair
Glen Oak Creek	R29	4	3	2	4	3	2	18	Fair
Glen Oak Creek	R29b	5	3	4	4	4	3	23	Fair
Glen Oak Creek	R96	2	1	1	3	2	1	10	Poor
Glen Oak Creek	R97	3	2	2	3	3	1	14	Poor
Shannon's Creek	R92	0	1	2	4	5	2	14	Poor
Shannon's Creek	R93	3	3	2	4	3	2	17	Fair
Munn's Creek	R33	2	6	7	4	4	4	27	Fair
Munn's Creek	R34	4	4	5	4	4	3	24	Fair
Munn's Creek	R35	3	5	4	4	3	3	22	Fair
Munn's Creek	R77	2	3	3	4	5	3	20	Fair
Munn's Creek	R78	2	2	3	4	4	3	18	Fair
Lower Morrison Creek	R46	10	3	2	4	1	3	23	Fair
Lower Morrison Creek	R49	4	5	4	4	3	4	24	Fair

**Table A3: Results of RSAT Evaluation by Reach**

Watercourse	Reach	RSAT Evaluation Category						Total	Verbal Ranking
		1. Channel Stability	2. Channel Scouring/ Deposition	3. Physical In-Stream Habitat	4. Water Quality	5. Riparian Habitat Conditions	6. Biological Indicators		
Lower Morrison Creek	R50	5	3	3	4	2	3	20	Fair
Lower Morrison Creek	R51	5	4	3	4	2	3	21	Fair
West Morrison Creek	R52	4	2	2	2	1	2	13	Poor
West Morrison Creek	R52a	6	2	2	3	2	2	17	Fair
West Morrison Creek	R82	5	4	3	4	4	4	24	Fair
West Morrison Creek	R83	5	3	3	4	4	2	21	Fair
West Morrison Creek	R84	5	3	3	4	4	3	22	Fair
West Morrison Creek	R85	5	3	3	4	4	3	22	Fair
East Morrison Creek	R39	1	2	2	4	6	4	19	Fair
East Morrison Creek	R40	1	1	3	4	6	4	19	Fair
East Morrison Creek	R41	1	2	4	4	6	4	21	Fair
East Morrison Creek	R42	2	2	5	4	6	4	23	Fair
East Morrison Creek	R43	3	2	3	4	6	4	22	Fair
East Morrison Creek	R44	3	2	4	4	6	4	23	Fair
East Morrison Creek	R45	3	1	4	4	5	4	21	Fair
Wedgewood Creek	R55	3	4	5	5	3	5	25	Fair
Wedgewood Creek	R57	5	4	4	4	4	4	25	Fair
Wedgewood Creek	R59	1	2	2	4	6	3	18	Fair
Wedgewood Creek	R60	4	3	3	4	5	4	23	Fair
Wedgewood Creek	R61	1	2	2	4	5	3	17	Fair
Joshua's Creek	R62	9	7	7	5	6	6	40	Good
Joshua's Creek	R63&64	9	6	6	5	6	6	38	Good
Joshua's Creek	R65&66	8	5	5	5	6	5	34	Good
Joshua's Creek	R87	9	5	6	4	4	4	32	Good
Joshua's Creek	R88	9	7	7	5	6	5	39	Good
Joshua's Creek	R88a	6	2	2	5	5	5	25	Fair
Joshua's Creek	R88b	7	2	2	5	6	5	27	Fair

**Table A3: Results of RSAT Evaluation by Reach**

Watercourse	Reach	RSAT Evaluation Category						Total	Verbal Ranking
		1. Channel Stability	2. Channel Scouring/Deposition	3. Physical In-Stream Habitat	4. Water Quality	5. Riparian Habitat Conditions	6. Biological Indicators		
Joshua's Creek	R89	9	7	7	5	6	5	39	Good
Joshua's Creek	R89a	7	6	7	5	6	5	36	Good
Joshua's Creek	R89aa	3	5	5	5	6	5	29	Fair
Joshua's Creek	R89b	8	3	3	5	5	5	29	Fair

**Table A4: Summary of RGA and RSAT Evaluation by Reach**

<b>Watercourse</b>	<b>Reach</b>	<b>RSAT Score</b>	<b>RSAT Verbal Ranking</b>	<b>RGA Stability Index</b>	<b>RGA Classification</b>	<b>RGA Dominant Process</b>
Sheldon Creek	R69	23	Fair	0.18	In Regime	Widening
Sheldon Creek	R70	29	Fair	0.27	In Transition	Widening
Sheldon Creek	R71	24	Fair	0.31	In Transition	Widening
Fourteen Mile Creek	R1a	27	Fair	0.38	In Transition	Aggradation
Fourteen Mile Creek	R3	29	Fair	0.30	In Transition	Widening
Fourteen Mile Creek	R4	27	Fair	0.22	In Transition	Widening
Fourteen Mile Creek	R5	26	Fair	0.36	In Transition	Degradation
Fourteen Mile Creek	R5a	33	Good	0.37	In Transition	Degradation
Fourteen Mile Creek	R5b	20	Fair	0.35	In Transition	Widening
Fourteen Mile Creek	R9	21	Fair	0.39	In Transition	Degradation
Fourteen Mile Creek	R6a	13	Poor	0.41	In Adjustment	Degradation
Fourteen Mile Creek	R6	9	Poor	0.36	In Transition	Aggradation
Fourteen Mile Creek	R10	20	Fair	0.32	In Transition	Degradation
Fourteen Mile Creek	R11	21	Fair	0.34	In Transition	Aggradation
Fourteen Mile Creek	R12	31	Good	0.37	In Transition	Degradation
Fourteen Mile Creek	R13	28	Fair	0.36	In Transition	Degradation
Fourteen Mile Creek	R14a	24	Fair	0.24	In Transition	Widening
Fourteen Mile Creek	R14b	24	Fair	0.28	In Transition	Aggradation
Fourteen Mile Creek	R72	33	Good	0.28	In Transition	Degradation
Fourteen Mile Creek	R73	30	Good	0.36	In Transition	Widening
Fourteen Mile Creek	R74	30	Good	0.35	In Transition	Widening
Fourteen Mile Creek	R75	30	Good	0.31	In Transition	Widening
Fourteen Mile Creek	R75a	25	Fair	0.34	In Transition	Widening
Fourteen Mile Creek	R75b	34	Good	0.35	In Transition	Planform Adjustment
Fourteen Mile Creek	R75c	32	Good	0.11	In Regime	Planform Adjustment
Fourteen Mile Creek	R76	30	Good	0.35	In Transition	Widening
Fourteen Mile Creek	R76aa	19	Fair	0.25	In Transition	Widening
Fourteen Mile Creek	R76ab	23	Fair	0.27	In Transition	Planform Adjustment

**Table A4: Summary of RGA and RSAT Evaluation by Reach**

<b>Watercourse</b>	<b>Reach</b>	<b>RSAT Score</b>	<b>RSAT Verbal Ranking</b>	<b>RGA Stability Index</b>	<b>RGA Classification</b>	<b>RGA Dominant Process</b>
Fourteen Mile Creek	R76b	23	Fair	0.23	In Transition	Widening
Fourteen Mile Creek	R76e	22	Fair	0.39	In Transition	Widening
McCraney Creek	R21	16	Fair	0.50	In Adjustment	Degradation
McCraney Creek	R17	25	Fair	0.42	In Adjustment	Widening
McCraney Creek	R18	25	Fair	0.49	In Adjustment	Widening
Taplow Creek	R30	14	Poor	0.36	In Transition	Widening
Taplow Creek	R32	15	Poor	0.32	In Transition	Widening
Taplow Creek	R24	17	Fair	0.37	In Transition	Degradation
Taplow Creek	R25	19	Fair	0.25	In Transition	Widening
Taplow Creek	R26	19	Fair	0.33	In Transition	Widening
Taplow Creek	R27	19	Fair	0.29	In Transition	Widening
Glen Oak Creek	R29a	17	Fair	0.24	In Transition	Aggradation
Glen Oak Creek	R29	18	Fair	0.29	In Transition	Degradation & Widening
Glen Oak Creek	R29b	23	Fair	0.28	In Transition	Degradation
Glen Oak Creek	R96	10	Poor	0.38	In Transition	Aggradation
Glen Oak Creek	R97	14	Poor	0.49	In Adjustment	Aggradation
Shannon's Creek	R92	14	Poor	0.68	In Adjustment	Degradation
Shannon's Creek	R93	17	Fair	0.50	In Adjustment	Degradation
Munn's Creek	R33	27	Fair	0.50	In Adjustment	Widening
Munn's Creek	R34	24	Fair	0.36	In Transition	Widening
Munn's Creek	R35	22	Fair	0.50	In Adjustment	Widening
Munn's Creek	R77	20	Fair	0.43	In Adjustment	Widening
Munn's Creek	R78	18	Fair	0.48	In Adjustment	Widening
Lower Morrison Creek	R46	23	Fair	0.28	In Transition	Aggradation
Lower Morrison Creek	R49	24	Fair	0.44	In Adjustment	Widening
Lower Morrison Creek	R50	20	Fair	0.38	In Transition	Widening
Lower Morrison Creek	R51	21	Fair	0.41	In Adjustment	Widening
West Morrison Creek	R52	13	Poor	0.40	In Transition	Widening
West Morrison Creek	R52a	17	Fair	0.36	In Transition	Aggradation

**Table A4: Summary of RGA and RSAT Evaluation by Reach**

<b>Watercourse</b>	<b>Reach</b>	<b>RSAT Score</b>	<b>RSAT Verbal Ranking</b>	<b>RGA Stability Index</b>	<b>RGA Classification</b>	<b>RGA Dominant Process</b>
West Morrison Creek	R82	24	Fair	0.37	In Transition	Aggradation
West Morrison Creek	R83	21	Fair	0.36	In Transition	Aggradation
West Morrison Creek	R84	22	Fair	0.39	In Transition	Aggradation
West Morrison Creek	R85	22	Fair	0.40	In Transition	Widening
East Morrison Creek	R39	19	Fair	0.44	In Adjustment	Widening
East Morrison Creek	R40	19	Fair	0.43	In Adjustment	Widening
East Morrison Creek	R41	21	Fair	0.41	In Adjustment	Widening
East Morrison Creek	R42	23	Fair	0.41	In Adjustment	Widening
East Morrison Creek	R43	22	Fair	0.47	In Adjustment	Widening
East Morrison Creek	R44	23	Fair	0.43	In Adjustment	Widening
East Morrison Creek	R45	21	Fair	0.45	In Adjustment	Widening
Wedgewood Creek	R55	25	Fair	0.38	In Transition	Widening
Wedgewood Creek	R57	25	Fair	0.30	In Transition	Widening
Wedgewood Creek	R59	18	Fair	0.67	In Adjustment	Widening
Wedgewood Creek	R60	23	Fair	0.58	In Adjustment	Widening
Wedgewood Creek	R61	17	Fair	0.57	In Adjustment	Widening
Joshua's Creek	R62	40	Good	0.17	In Regime	Aggradation
Joshua's Creek	R63&64	38	Good	0.26	In Transition	Widening
Joshua's Creek	R65&66	34	Good	0.37	In Transition	Degradation
Joshua's Creek	R87	32	Good	0.24	In Transition	Widening
Joshua's Creek	R88	39	Good	0.38	In Transition	Degradation
Joshua's Creek	R88a	25	Fair	0.21	In Transition	Widening
Joshua's Creek	R88b	27	Fair	0.20	In Transition	Widening
Joshua's Creek	R89	39	Good	0.36	In Transition	Degradation
Joshua's Creek	R89a	36	Good	0.32	In Transition	Aggradation
Joshua's Creek	R89aa	29	Fair	0.36	In Transition	Aggradation
Joshua's Creek	R89b	29	Fair	0.21	In Transition	Widening