

Site	YPS-070	YPS-547	YPS-585	YPS-590	YPS-569	YPS-568	YPS-566
Year	2016	2016	2016	2016	2016	2016	2016
Sample Date	July-26-16	July-27-16	July-25-16	July-25-16	July-25-16	July-26-16	July-26-16
Sample Status	Test	Test	Test	Test	Test	Test	Test
Width-Bankfull (m)	5.0	20.5	23.8	38.9	10.4	14.5	38.5
Width-Wetted (m)	4.1	18.0	5.1	6.2	5.7	6.5	6.4
Depth-Avg (cm)	24.3	70.0	19.0	47.6	29.6	22.0	21.4
Depth-Max (cm)	32.0		30.0	53.0	47.0	34.0	27.0
Slope (%)	1.0	1.0	5.2	2.8	0.5	1.5	1.8
Velocity-Avg (m/s)	0.77	0.80	1.14	2.38	0.96	0.68	0.80
Velocity-Max (m/s)	1.10		1.60	2.80	1.30	1.10	1.00
Substrate-Dominant-1st	1.6 – 3.2 cm (pebble)	6.4 – 12.8 cm (cobble)	3.2 – 6.4 cm (pebble)	6.4 – 12.8 cm (cobble)	6.4 – 12.8 cm (cobble)	1.6 – 3.2 cm (pebble)	6.4 – 12.8 cm (cobble)
Substrate-Dominant-2nd	0.2 – 1.6 cm (gravel)	3.2 – 6.4 cm (pebble)	12.8 – 25.6 cm (cobble)	12.8 – 25.6 cm (cobble)	12.8 – 25.6 cm (cobble)	0.2 – 1.6 cm (gravel)	3.2 – 6.4 cm (pebble)
Substrate-Surrounding Material	0.1 – 0.2 cm (sand)	0.2 – 1.6 cm (gravel)	0.2 – 1.6 cm (gravel)	0.2 – 1.6 cm (gravel)	0.1 – 0.2 cm (sand)	0.1 – 0.2 cm (sand)	1.6 – 3.2 cm (pebble)
Substrate-Embeddedness	unembedded	3/4 embedded	1/4 embedded	unembedded	1/2 embedded	1/2 embedded	unembedded
Pools	No	No	No	No	No	No	No
Rapids	No	No	Yes	Yes	Yes	Yes	No
Riffles	Yes	No	No	No	Yes	Yes	Yes
Straight Run	No	Yes	No	No	No	No	No
Canopy Coverage (%)	0	1-25%	1-25%	1-25%	0	1-25%	1-25%
Channel-Periphyton Coverage	thin layer, no colour	thin layer, no colour	thin layer, no colour	thin layer, no colour	thin layer, no colour	thin layer, no colour	thin layer, no colour
Channel-Macrophyte (%)	0	0	0	0	0	1-25%	1-25%
Riparian-Coniferous	Absent	Absent	Present	Present	Absent	Absent	Absent
Riparian-Deciduous	Absent	Absent	Absent	Absent	Present	Present	Absent
Riparian-GrassesFerns	Present	Absent	Absent	Absent	Absent	Absent	Present
Riparian-Shrubs	Absent	Present	Present	Present	Present	Present	Present
Conductivity (S/m)	74	145	45	168	91	240	190
Specific Conductance (µS/cm)	109	197	71	247	134	360	294
DO (mg/L)	11.68	10.12	11.2	11.74	11.25	10.84	11.19
pH (pH)	8.3	7.4	8.3	8.4	7.4	8.3	8.2
TDS (mg/L)	56		37	12	80	1	3
TSS (mg/L)	128		36	135	343	205	163
Turbidity (NTU)	58		13	6.7	77	1	0.7
Temp Air (Degrees Celsius)	22	19	18	20	17	16	15
Temp Water (Degrees Celsius)	8.3	11.2	6.0	8.4	8.2	7.6	6.5

Site	YPS-139	YPS-577	YPS-574	YPS-445	YPS-591	YPS-592	YPS-534
Year	2016	2016	2016	2016	2016	2016	2016
Sample Date	July-28-16	July-27-16	July-28-16	July-25-16	July-26-16	July-26-16	July-28-16
Sample Status	Potential Reference	Test	Test	Potential Reference	Potential Reference	Potential Reference	Test
Width-Bankfull (m)	20.0	25.3	7.1	11.5	8.9	2.4	5.2
Width-Wetted (m)	19.4	20.1	56.0	10.8	5.0	2.4	3.4
Depth-Avg (cm)	44.6	69.1	33.2	25.5	12.7	10.5	25.0
Depth-Max (cm)	54.0	92.0	43.0	43.0	23.0	13.0	36.0
Slope (%)	0.5	0.5	1.5	1.2	3.5	3.0	1.5
Velocity-Avg (m/s)	0.86	1.15	0.50	0.74	0.78	0.67	0.47
Velocity-Max (m/s)	1.00	1.50	0.70	1.20	1.40	0.70	0.70
Substrate-Dominant-1st	12.8 – 25.6 cm (cobble)	3.2 – 6.4 cm (pebble)	12.8 – 25.6 cm (cobble)	3.2 – 6.4 cm (pebble)	1.6 – 3.2 cm (pebble)	3.2 – 6.4 cm (pebble)	6.4 – 12.8 cm (cobble)
Substrate-Dominant-2nd	6.4 – 12.8 cm (cobble)	0.2 – 1.6 cm (gravel)	6.4 – 12.8 cm (cobble)	1.6 – 3.2 cm (pebble)	3.2 – 6.4 cm (pebble)	1.6 – 3.2 cm (pebble)	1.6 – 3.2 cm (pebble)
Substrate-Surrounding Material	0.1 – 0.2 cm (sand)	0.1 – 0.2 cm (sand)	1.6 – 3.2 cm (pebble)	0.2 – 1.6 cm (gravel)	0.1 – 0.2 cm (sand)	0.2 – 1.6 cm (gravel)	0.1 – 0.2 cm (sand)
Substrate-Embeddedness	1/4 embedded	1/2 embedded	1/4 embedded	unembedded	1/4 embedded	1/2 embedded	3/4 embedded
Pools	No	No	No	No	No	No	No
Rapids	No	No	Yes	Yes	Yes	Yes	Yes
Riffles	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Straight Run	No	Yes	No	No	No	No	No
Canopy Coverage (%)	1-25%	1-25%	1-25%	1-25%	26-50%	26-50%	26-50%
Channel-Periphyton Coverage	thin layer, no colour	thin layer, no colour	yellow-brown to light green	patches of thicker green to brown	thin layer, no colour	yellow-brown to light green	thin layer, no colour
Channel-Macrophyte (%)	0	0	0	0	1-25%	1-25%	0
Riparian-Coniferous	Present	Present	Present	Present	Present	Present	Absent
Riparian-Deciduous	Absent	Absent	Absent	Absent	Absent	Absent	Present
Riparian-GrassesFerns	Present	Present	Present	Present	Present	Present	Present
Riparian-Shrubs	Present	Present	Present	Present	Present	Present	Present
Conductivity (S/m)	170	76	53	113	179	256	393
Specific Conductance (µS/cm)	224	115	81	149	284	394	556
DO (mg/L)	9.22	11.5	10.35	10.25	11.46	11.08	10.35
pH (pH)	7.6	8.2	7.3	8.1	8.3	8.3	7.9
TDS (mg/L)	138	8	119	11	25	5	55
TSS (mg/L)	4	59	179	78	156	230	284
Turbidity (NTU)	1.4	2.2	170	1.6	0.3	0.95	100
Temp Air (Degrees Celsius)	19	25	17	20	19	19	
Temp Water (Degrees Celsius)	12.2	7.4	8.8	12.4	5.7	6.7	9.7

Site	YPS-164	YPS-544	YPS-201	YPS-078	YPS-081	YPS-107	YPS-386
Year	2016	2016	2016	2016	2016	2016	2016
Sample Date	July-28-16	July-25-16	July-27-16	July-25-16	July-25-16	July-25-16	July-26-16
Sample Status	Test	Test	Test	Test	Test	Test	Potential Reference
Width-Bankfull (m)	9.3	9.1	46.0	4.4	15.8	7.4	23.1
Width-Wetted (m)	9.3	8.2	25.0	3.4	14.4	3.2	20.8
Depth-Avg (cm)	18.0	47.0	121.0	20.6	45.8	22.0	52.0
Depth-Max (cm)	27.0	72.0		23.0	86.0	34.0	59.0
Slope (%)	0.5	0.0	0.7	3.0	1.0	2.0	1.0
Velocity-Avg (m/s)	0.60	0.62	1.40	0.62	1.10	0.70	1.14
Velocity-Max (m/s)	0.90	0.80		0.80	1.50	1.00	1.30
Substrate-Dominant-1st	3.2 – 6.4 cm (pebble)	<0.1 cm (silt)	3.2 – 6.4 cm (pebble)	6.4 – 12.8 cm (cobble)	6.4 – 12.8 cm (cobble)	6.4 – 12.8 cm (cobble)	12.8 – 25.6 cm (cobble)
Substrate-Dominant-2nd	0.2 – 1.6 cm (gravel)	3.2 – 6.4 cm (pebble)	1.6 – 3.2 cm (pebble)	3.2 – 6.4 cm (pebble)	12.8 – 25.6 cm (cobble)	12.8 – 25.6 cm (cobble)	6.4 – 12.8 cm (cobble)
Substrate-Surrounding Material	0.1 – 0.2 cm (sand)	<0.1 cm (silt)	6.4 – 12.8 cm (cobble)	0.1 – 0.2 cm (sand)	0.1 – 0.2 cm (sand)	0.1 – 0.2 cm (sand)	0.2 – 1.6 cm (gravel)
Substrate-Embeddedness	1/2 embedded	Completely embedded	1/4 embedded	1/2 embedded	1/2 embedded	1/4 embedded	unembedded
Pools	No	No	No	No	No	No	No
Rapids	No	No	No	Yes	Yes	Yes	Yes
Riffles	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Straight Run	No	Yes	No	No	No	No	No
Canopy Coverage (%)	26-50%	26-50%	1-25%	1-25%	1-25%	1-25%	1-25%
Channel-Periphyton Coverage	yellow-brown to light green	thin layer, no colour	thin layer, no colour	thin layer, no colour	thin layer, no colour	thin layer, no colour	thin layer, no colour
Channel-Macrophyte (%)	0	1-25%	0	0	0	0	0
Riparian-Coniferous	Absent	Absent	Present	Present	Present	Present	Present
Riparian-Deciduous	Present	Present	Present	Present	Present	Present	Present
Riparian-GrassesFerns	Present	Present	Present	Present	Present	Present	Present
Riparian-Shrubs	Present	Present	Present	Present	Present	Present	Present
Conductivity (S/m)	240	236	107	117	125	68	65
Specific Conductance (µS/cm)	359	331	147	185	197	113	105
DO (mg/L)	10.87	10.91	10.55	11.73	12.31	12.54	12.35
pH (pH)	7.9	7.7	8.1	7.5	7.5	7.5	7.3
TDS (mg/L)	50	218	38	111	123	65	60
TSS (mg/L)	204	300	76	145	401	325	49
Turbidity (NTU)	2.9	160	16	68	240	91	16
Temp Air (Degrees Celsius)		16	20	14	14	16	14
Temp Water (Degrees Celsius)	7.7	10.0	10.7	5.9	5.8	3.9	5.0

Site	YPS-166	YPS-115	YPS-379	YPS-584	YPS-199	YPS-124	YPS-090
Year	2016	2016	2016	2016	2016	2016	2016
Sample Date	July-28-16	July-27-16	July-26-16	July-26-16	July-27-16	July-28-16	July-27-16
Sample Status	Test	Test	Test	Test	Potential Reference	Test	Test
Width-Bankfull (m)	12.8	23.0	19.9	6.3	7.5	9.1	37.0
Width-Wetted (m)	5.3	20.0	19.5	5.1	4.8	9.1	28.0
Depth-Avg (cm)	31.4	70.0	30.0	40.0	40.3	24.8	63.5
Depth-Max (cm)	46.0		44.0	47.0	53.0	35.0	83.0
Slope (%)	2.0	1.0	1.0	1.0	0.1	2.2	0.5
Velocity-Avg (m/s)	0.38	1.50	0.90	1.34	0.73	0.74	1.35
Velocity-Max (m/s)	0.60		1.00	1.70	1.10	1.00	1.60
Substrate-Dominant-1st	6.4 – 12.8 cm (cobble)	3.2 – 6.4 cm (pebble)	6.4 – 12.8 cm (cobble)	6.4 – 12.8 cm (cobble)	6.4 – 12.8 cm (cobble)	12.8 – 25.6 cm (cobble)	12.8 – 25.6 cm (cobble)
Substrate-Dominant-2nd	3.2 – 6.4 cm (pebble)	6.4 – 12.8 cm (cobble)	12.8 – 25.6 cm (cobble)	3.2 – 6.4 cm (pebble)	1.6 – 3.2 cm (pebble)	3.2 – 6.4 cm (pebble)	6.4 – 12.8 cm (cobble)
Substrate-Surrounding Material	0.1 – 0.2 cm (sand)		0.2 – 1.6 cm (gravel)	0.1 – 0.2 cm (sand)	0.1 – 0.2 cm (sand)	0.1 – 0.2 cm (sand)	1.6 – 3.2 cm (pebble)
Substrate-Embeddedness	1/4 embedded	unembedded	1/4 embedded	unembedded	1/2 embedded	1/2 embedded	unembedded
Pools	No	No	No	No	No	No	No
Rapids	No	No	Yes	Yes	Yes	Yes	No
Riffles	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Straight Run	Yes	Yes	Yes	Yes	No	Yes	No
Canopy Coverage (%)	1-25%	1-25%	1-25%	1-25%	26-50%	26-50%	0
Channel-Periphyton Coverage	thin layer, no colour	thin layer, no colour	thin layer, no colour	thin layer, no colour	yellow-brown to light green	yellow-brown to light green	yellow-brown to light green
Channel-Macrophyte (%)	0	0	0	0	0	0	1-25%
Riparian-Coniferous	Present	Present	Present	Present	Present	Present	Present
Riparian-Deciduous	Present	Present	Present	Present	Present	Present	Present
Riparian-GrassesFerns	Present	Present	Present	Present	Present	Present	Present
Riparian-Shrubs	Present	Present	Present	Present	Present	Present	Present
Conductivity (S/m)	100	73	154	40	82	152	153
Specific Conductance (µS/cm)	158	110	236	64	138	229	207
DO (mg/L)	11.05	11.14	11.85	12.03	12.77	10.95	10.15
pH (pH)	7.4	7.3	7.5	6.8	8.4	8.3	7.5
TDS (mg/L)	89	63	142	36	11	1	125
TSS (mg/L)	3	19	26	154	72	126	166
Turbidity (NTU)	0.45	7.2	15	50	3	0.24	140
Temp Air (Degrees Celsius)	16	15	19	17	20	24	19
Temp Water (Degrees Celsius)	5.9	7.6	6.8	5.7	3.9	7.5	11.3

Site	YPS-494	YPS-410	YPS-442	YPS-444	YPS-165	YPS-172	YPS-380
Year	2016	2016	2016	2016	2016	2016	2016
Sample Date	July-28-16	July-27-16	July-25-16	July-25-16	July-28-16	July-27-16	July-26-16
Sample Status	Potential Reference	Potential Reference	Test	Test	Test	Test	Potential Reference
Width-Bankfull (m)	7.1	9.4	22.5	18.1	30.7	38.8	17.7
Width-Wetted (m)	4.3	9.4	9.5	18.1	9.5	23.8	18.9
Depth-Avg (cm)	17.0	41.1	36.0	75.0	32.8	88.9	40.8
Depth-Max (cm)	27.0	65.5	58.0		58.0	137.0	98.0
Slope (%)	1.0	2.3	1.3	0.5	1.5	0.8	0.3
Velocity-Avg (m/s)	0.75	0.60	1.18	0.50	0.72	1.12	1.08
Velocity-Max (m/s)	0.80	0.70	1.60		1.00	1.40	1.20
Substrate-Dominant-1st	6.4 – 12.8 cm (cobble)	1.6 – 3.2 cm (pebble)	1.6 – 3.2 cm (pebble)	0.1 – 0.2 cm (sand)	6.4 – 12.8 cm (cobble)	1.6 – 3.2 cm (pebble)	12.8 – 25.6 cm (cobble)
Substrate-Dominant-2nd	12.8 – 25.6 cm (cobble)	0.2 – 1.6 cm (gravel)	6.4 – 12.8 cm (cobble)	<0.1 cm (silt)	12.8 – 25.6 cm (cobble)	3.2 – 6.4 cm (pebble)	6.4 – 12.8 cm (cobble)
Substrate-Surrounding Material	0.1 – 0.2 cm (sand)	0.1 – 0.2 cm (sand)	0.1 – 0.2 cm (sand)	<0.1 cm (silt)	0.1 – 0.2 cm (sand)	0.2 – 1.6 cm (gravel)	0.2 – 1.6 cm (gravel)
Substrate-Embeddedness	unembedded	1/2 embedded	1/4 embedded	Completely embedded	1/4 embedded	1/4 embedded	unembedded
Pools	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Rapids	Yes	Yes	Yes	No	Yes	No	No
Riffles	Yes	Yes	Yes	No	Yes	Yes	Yes
Straight Run	Yes	No	No	Yes	Yes	No	Yes
Canopy Coverage (%)	1-25%	1-25%	1-25%	1-25%	1-25%	1-25%	1-25%
Channel-Periphyton Coverage	thin layer, no colour	patches of thicker green to brown	thin layer, no colour	thin layer, no colour	thin layer, no colour	thin layer, no colour	thin layer, no colour
Channel-Macrophyte (%)	0	0	0	26-50%	0	0	0
Riparian-Coniferous	Absent	Absent	Present	Present	Absent	Present	Present
Riparian-Deciduous	Absent	Absent	Absent	Absent	Present	Present	Present
Riparian-GrassesFerns	Absent	Present	Present	Present	Present	Present	Present
Riparian-Shrubs	Absent	Present	Present	Present	Present	Present	Present
Conductivity (S/m)	78	97	55	115	78	103	47
Specific Conductance (µS/cm)	126	154	87	165	123	144	69
DO (mg/L)	10.36	11.91	11.23	10.57	11.48	11.38	10.94
pH (pH)	7.9	8.3	8.5	8.3	7.4	8.1	6.8
TDS (mg/L)	70	1	4	20	70	28	44
TSS (mg/L)	3	79	46	87	4	74	23
Turbidity (NTU)	0.4	0.4	1.3	5	0.6	12	10
Temp Air (Degrees Celsius)	17	22	20	23	17	22	19
Temp Water (Degrees Celsius)	5.1	4.9	6.0	9.2	5.8	10.1	7.6

Site	YPS-540	YPS-481	YPS-482	YPS-570	YPS-154
Year	2016	2016	2016	2016	2016
Sample Date	July-26-16	July-27-16	July-27-16	July-28-16	July-28-16
Sample Status	Test	Test	Potential Reference	Test	Potential Reference
Width-Bankfull (m)	12.7	13.2	4.5	4.6	24.2
Width-Wetted (m)	15.3	12.4	4.5	4.6	12.0
Depth-Avg (cm)	30.4	46.4	56.8	17.3	38.4
Depth-Max (cm)	55.0	55.0	71.0	26.0	51.0
Slope (%)	1.0	1.0	0.5	1.5	1.8
Velocity-Avg (m/s)	1.32	0.70	0.62	0.57	0.96
Velocity-Max (m/s)	1.90	1.10	0.80	0.80	1.50
Substrate-Dominant-1st	6.4 – 12.8 cm (cobble)	6.4 – 12.8 cm (cobble)	6.4 – 12.8 cm (cobble)	3.2 – 6.4 cm (pebble)	6.4 – 12.8 cm (cobble)
Substrate-Dominant-2nd	12.8 – 25.6 cm (cobble)	12.8 – 25.6 cm (cobble)	12.8 – 25.6 cm (cobble)	6.4 – 12.8 cm (cobble)	12.8 – 25.6 cm (cobble)
Substrate-Surrounding Material	0.2 – 1.6 cm (gravel)	0.2 – 1.6 cm (gravel)	0.2 – 1.6 cm (gravel)	0.1 – 0.2 cm (sand)	
Substrate-Embeddedness	unembedded	1/4 embedded	1/2 embedded	3/4 embedded	1/4 embedded
Pools	Yes	Yes	Yes	Yes	Yes
Rapids	Yes	No	No	Yes	No
Riffles	Yes	Yes	No	Yes	Yes
Straight Run	Yes	No	Yes	Yes	No
Canopy Coverage (%)	1-25%	1-25%	26-50%	51-75%	26-50%
Channel-Periphyton Coverage	thin layer, no colour	yellow-brown to light green	yellow-brown to light green	patches of thicker green to brown	patches of thicker green to brown
Channel-Macrophyte (%)	0	0	0	0	1-25%
Riparian-Coniferous	Present	Present	Present	Present	Present
Riparian-Deciduous	Present	Present	Present	Present	Present
Riparian-GrassesFerns	Present	Present	Present	Present	Present
Riparian-Shrubs	Present	Present	Present	Present	Present
Conductivity (S/m)	92	81	81	251	55
Specific Conductance (µS/cm)	142	119	128	395	88
DO (mg/L)	11.79	11.01	12.13	11.49	11.39
pH (pH)	7.4	7.2	7.2	8.2	8.1
TDS (mg/L)	83	70	73	32	7
TSS (mg/L)	170	124	23	225	46
Turbidity (NTU)	54	70	9.7	1.4	0.65
Temp Air (Degrees Celsius)	20	20	24	22	16
Temp Water (Degrees Celsius)	6.7	8.1	5.6	6.0	5.1