Particle Size Distribution Worksheet - all particles (bed and channel) Longitudinal

Stream: Pete King Creek
Reach: pk-15

Observers: Bybee, Stallings
Date: 7/21/15

#	Size (mm)	Location
1	1	
2	205	
3	209	
4	540	
5	10	
6	240	
7	160	
8	84	
9	245	
10	180	Bed
11	40	
12	84	
13	135	
14	69	B
15	44	B
16	51	
17	50	
18	78	
19	79	
20	129	
21	168	
22	155	
23	90	
24	118	
25	105	
26	73	
27	79	
28	39	
29	71	
30	90	
31	100	
32	25	
33	199	
34	1	
35	63	B

50 Percentile (mm): 84.5

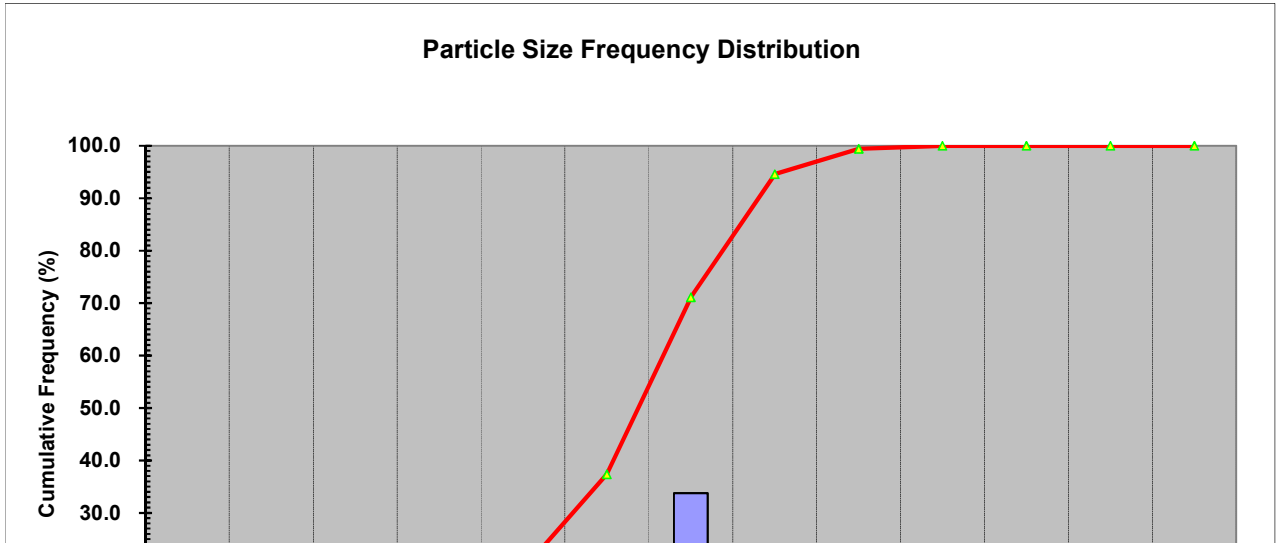
84 Percentile (mm): 169.8

% Fines (<4mm): 8.4

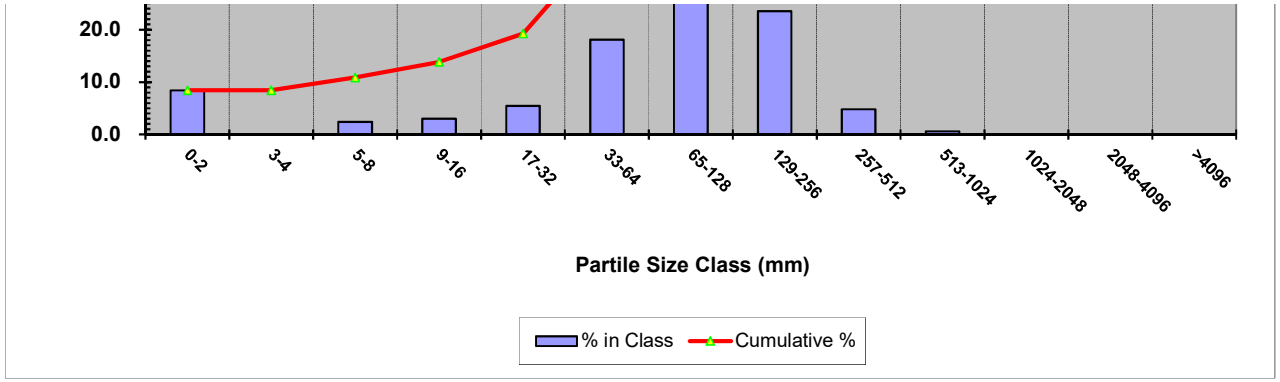
Particle Size Class Frequency Array

Size Class	#	% in Class	Cumulative %
0-2	14	8.4	8.4
3-4	0	0.0	8.4
5-8	4	2.4	10.8
9-16	5	3.0	13.9
17-32	9	5.4	19.3
33-64	30	18.1	37.3
65-128	56	33.7	71.1
129-256	39	23.5	94.6
257-512	8	4.8	99.4
513-1024	1	0.6	100.0
1024-2048	0	0.0	100.0
2048-4096	0	0.0	100.0
>4096	0	0.0	100.0

Total: 166



36	171	
37	35	
38	330	
39	1	
40	34	
41	204	
42	31	
43	193	
44	66	
45	90	
46	138	
47	2	
48	140	
49	58	
50	103	
51	63	
52	14	B
53	105	
54	33	
55	148	B
56	36	
57	66	
58	99	
59	116	
60	141	
61	136	
62	80	
63	115	
64	104	
65	186	
66	473	B
67	1	B
68	66	
69	9	
70	208	
71	79	
72	219	
73	15	
74	17	
75	127	
76	20	
77	85	B
78	60	B



79	41	
80	31	
81	106	
82	115	
83	130	
84	41	
85	112	
86	245	
87	25	
88	72	
89	106	
90	205	
91	86	
92	380	
93	102	
94	98	
95	121	
96	62	B
97	65	
98	35	
99	165	
100	65	
101	2	
102	1	
103	140	
104	105	
105	24	
106	93	
107	2	
108	135	
109	149	
110	6	
111	210	
112	278	
113	85	
114	67	
115	93	
116	160	
117	137	
118	6	
119	32	
120	104	
121	46	

122	127	
123	38	
124	143	
125	1	
126	39	
127	129	
128	6	
129	1	
130	78	
131	48	
132	148	
133	365	
134	93	
135	27	
136	200	
137	44	
138	75	
139	320	
140	91	
141	45	
142	44	
143	75	
144	320	
145	129	
146	123	
147	70	
148	60	
149	36	
150	2	
151	100	
152	1	
153	1	B
154	204	
155	64	
156	275	
157	120	
158	237	
159	10	B
160	63	
161	56	
162	119	
163	6	
164	86	

165	34	
166	1	B
167		
168		
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Stream: Pete King Creek
Reach: pk-15
Surveyor: T. Bybee, B. Stallings
Reach Length(M): 50
Random Start: 9
Rosgen Channel Type:

Transect #: 1
Transect Location: 9M
Wetted Width 5.95
Bankfull Width 8.00
Bankfull Depth 1 0.28
Bankfull Depth 2 0.33
Width/Depth 22.86

Hoop #1		
De (mm)	*Dt(mm)*	*MCE (%)*
12	52	23.08
26	26	100.00
16	16	100.00
22	22	100.00
21	21	100.00
61	61	100.00
38	38	100.00
49	49	100.00
11	11	100.00
34	55	61.82
78	81	96.30
40	49	81.63
33	33	100.00
16	16	100.00
51	56	91.07
31	47	65.96
56	62	90.32
41	41	100.00
1	22	4.55
39	51	76.47
24	24	100.00
61	87	70.11
71	84	84.52
46	78	58.97
24	41	58.54
28	28	100.00
17	17	100.00
25	25	100.00
31	60	51.67
11	11	100.00
6	15	40.00
19	19	100.00
11	39	28.21

Hoop #2	
De (mm)	*Dt(mm)*
16	61
11	84
31	43
8	34
4	26
42	108
61	131
46	85
46	74
42	91
0	16
21	41
13	52
46	97
24	46
51	75
36	52
18	37
28	61
11	17
6	34
21	53
11	131
1	32
81	129
32	57
41	110
21	46
37	96
56	71
61	74
16	55
28	63

36	42	85.71
19	19	100.00
36	39	92.31
52	52	100.00
31	31	100.00
23	23	100.00
20	20	100.00
25	25	100.00
22	22	100.00
46	43	106.98
6	31	19.35
14	36	38.89
18	29	62.07
46	68	67.65
26	59	44.07
11	44	25.00
101	112	90.18
118	195	60.51
38	53	71.70
42	42	100.00
25	25	100.00
41	41	100.00
46	46	100.00
46	54	85.19
35	43	81.40
1	9	11.11
19	28	67.86
41	68	60.29
52	67	77.61
53	75	70.67
21	34	61.76
15	29	51.72
42	51	82.35
11	22	50.00
34	34	100.00
18	24	75.00
19	19	100.00
6	6	100.00
9	9	100.00
7	7	100.00
112	184	60.87
16	58	27.59
16	31	51.61
94	117	80.34

Average MCE (%): 78.48

26	75
24	54
19	19
44	44
54	54
51	67
36	51
21	40
43	43
96	119
16	16
31	31
36	44
16	16
12	28
14	14
62	73

Average MCE (%): 55.66

%Fines:	0.40	**%Fines:**	0.10
WCE:	87.09	**WCE:**	60.10

Transect #:	2	**Transect Location:**	19M
Wetted Width	6.70		
Bankfull Width	10.30		
Bankfull Depth 1	0.50	**Bankfull Depth 2**	0.57
Width/Depth	18.84		

Hoop #1		
De (mm)	*Dt(mm)*	*MCE (%)*
40	55	72.73
52	98	53.06
34	75	45.33
60	81	74.07
26	35	74.29
65	108	60.19
17	29	58.62
0	5	0.00
60	75	80.00
5	75	6.67
2	45	4.44
30	48	62.50
31	40	77.50
35	43	81.40
14	33	42.42
35	52	67.31
64	64	100.00
34	70	48.57
28	64	43.75
19	39	48.72
130	142	91.55
54	57	94.74
42	46	91.30
19	19	100.00
36	45	80.00
38	52	73.08
24	71	33.80
21	57	36.84
61	98	62.24
42	65	64.62
28	39	71.79
18	32	56.25
21	46	45.65
31	52	59.62

Hoop #2	
De (mm)	*Dt(mm)*
21	30
56	56
28	44
25	47
18	25
28	57
29	32
27	36
0	16
26	57
0	65
0	28
2	29
4	49
34	85
130	235
35	51
28	58
14	39
16	24
43	71
21	35
0	25
3	21
40	72
92	106
24	33
41	41
4	54
15	32
22	53
25	47
52	71
9	42

33	60	55.00
13	32	40.63
43	57	75.44
10	25	40.00
30	47	63.83
46	38	121.05
35	54	64.81
37	37	100.00
84	84	100.00
23	23	100.00
42	51	82.35
35	40	87.50
19	19	100.00
17	17	100.00
75	92	81.52
11	20	55.00
31	31	100.00
94	94	100.00
68	70	97.14
33	49	67.35
20	20	100.00
54	54	100.00
92	96	95.83
18	18	100.00
18	18	100.00
29	29	100.00
17	17	100.00
15	15	100.00
36	55	65.45
10	12	83.33
25	25	100.00
41	41	100.00

31	35
43	64
46	58
39	51
36	41
14	27
31	40
45	45
18	35
11	27
42	56
31	31
17	17
36	41
22	22
0	19
21	25
38	47
16	26
14	20
23	23
16	16
21	35
55	32
32	43
52	73
16	18
0	26

Average MCE (%): 73.32

%Fines: 0.25

WCE: 79.99

Average MCE (%): 61.11

%Fines: 0.10

WCE: 65.00

Transect #: 3

Transect Location: 29M

Wetted Width 6.40

Bankfull Width 8.20

Bankfull Depth 1 0.46

Bankfull Depth 2 0.43

Width/Depth 20.67

Hoop #1

Hoop #2

De (mm)	Dt(mm)	MCE (%)
6	47	12.77
21	78	26.92
24	94	25.53
6	67	8.96
21	43	48.84
41	72	56.94
24	38	63.16
41	69	59.42
19	37	51.35
4	28	14.29
41	78	52.56
72	125	57.60
111	180	61.67
8	31	25.81
6	24	25.00
160	181	88.40
11	17	64.71
22	26	84.62
44	65	67.69
16	28	57.14
22	48	45.83
24	49	48.98
34	101	33.66
21	46	45.65
0	18	0.00
0	12	0.00
9	12	75.00
151	188	80.32
30	30	100.00
61	72	84.72
96	133	72.18
46	51	90.20
73	79	92.41

De (mm)	Dt(mm)
0	24
9	36
56	77
53	59
26	58
88	157
41	63
31	62
22	46
51	79
52	87
18	65
11	34
31	66
4	62
12	44
5	41
56	83
31	82
36	53
12	21
8	8
11	42
51	51
8	59
61	113
46	71
3	34
6	6
14	14
103	142
96	116
72	108
33	64
56	71
13	13
6	6
7	7
8	8
66	82
81	107
66	84
41	53
67	82
31	58

18	37
52	81
147	163
16	16

Average MCE (%): 52.19

%Fines: 0.20

WCE: 61.75

Average MCE (%): 61.82

%Fines: 0.00

WCE: 61.82

Transect #: 4

Transect Location: 39M

Wetted Width 4.70

Bankfull Width 7.30

Bankfull Depth 1 0.03

Bankfull Depth 2 0.28

Width/Depth 24.89

Hoop #1		
De (mm)	*Dt(mm)*	*MCE (%)*
32	78	41.03
45	78	57.69
50	89	56.18
36	73	49.32
13	19	68.42
33	60	55.00
25	44	56.82
50	65	76.92
54	58	93.10
42	74	56.76
45	60	75.00
33	45	73.33
50	63	79.37
0	32	0.00
23	63	36.51
34	47	72.34
7	42	16.67
2	24	8.33
27	68	39.71
1	38	2.63
3	18	16.67
66	71	92.96
52	52	100.00
23	38	60.53
79	92	85.87

Hoop #2	
De (mm)	*Dt(mm)*
26	38
14	47
16	37
3	21
0	19
12	33
22	56
11	32
3	27
18	35
23	49
26	45
16	16
60	66
37	50
30	42
3	22
34	49
30	42
40	69
38	50
47	50
10	10
14	27
11	20

18	18	100.00
31	35	88.57
17	17	100.00
75	98	76.53
11	11	100.00
35	35	100.00
47	47	100.00
27	36	75.00
0	37	0.00
55	68	80.88
57	57	100.00
17	17	100.00
23	23	100.00
26	26	100.00
27	27	100.00
75	81	92.59
33	33	100.00
26	26	100.00
26	26	100.00
17	17	100.00
28	28	100.00
30	30	100.00
33	33	100.00
9	9	100.00
16	16	100.00
54	54	100.00
18	18	100.00
20	2	1000.00
21	27	77.78
11	17	64.71
8	8	100.00
60	78	76.92

21	45
13	67
29	52
72	90
21	72
36	57
20	37
8	8
52	68
12	18
17	24
29	37
40	46
65	77
62	83
40	47
68	71
26	39
47	53
41	48

Averge MCE (%): 91.30
%Fines: 0.30
WCE: 93.91

Averge MCE (%): 61.49
%Fines: 0.30
WCE: 73.04

Transect #: 5
Wetted Width 4.60
Bankfull Width 7.70
Bankfull Depth 1 0.18
Width/Depth 22.00

Transect Location: 49M

Bankfull Depth 2 0.35

Hoop #1

Hoop #2

De (mm)	Dt(mm)	MCE (%)
3	22	13.64
71	108	65.74
63	91	69.23
72	94	76.60
38	101	37.62
46	69	66.67
0	19	0.00
6	28	21.43
2	12	16.67
0	11	0.00
26	52	50.00
4	33	12.12
39	61	63.93
11	32	34.38
44	44	100.00
73	81	90.12
102	130	78.46
48	57	84.21
18	18	100.00
12	56	21.43
35	55	63.64
31	38	81.58
49	72	68.06
19	20	95.00
69	81	85.19
35	50	70.00
30	41	73.17
36	42	85.71
41	41	100.00
46	48	95.83
16	54	29.63
9	47	19.15
61	74	82.43
18	45	40.00
56	68	82.35
31	42	73.81
36	61	59.02
56	62	90.32
69	80	86.25
14	49	28.57
41	41	100.00
71	123	57.72
32	97	32.99
19	23	82.61
93	138	67.39

De (mm)	Dt(mm)
0	13
0	19
24	95
19	28
65	74
13	30
0	34
46	108
42	47
38	49
22	22
16	36
24	24
26	26
13	13
19	19
0	22
16	33
11	38
13	29
56	74
36	52
26	44
57	71
4	34
45	60
6	29
56	72
0	8
21	36
103	121
132	152
108	121

58	65	89.23
56	68	82.35
42	42	100.00
31	31	100.00
24	24	100.00
29	29	100.00
12	12	100.00
17	17	100.00
23	23	100.00
29	29	100.00

Average MCE (%):	67.71
%Fines:	0.30
WCE:	77.40

Average MCE (%):	57.26
%Fines:	0.40
WCE:	74.36

Reach Summaries	
Average Wetted Width:	5.67
Average Bankful Width:	8.30
Average Bankful Depth:	0.39
Average W/D:	21.85
Average WCE:	71.21

Date: 7/8/15

Raw Banks: 10M

Recorder: T. Bybee, B. Stallings

UTM TOR 11N 608923 5113411 BOR 608886 5113434

Gradient: 2.5%

Bankfull Depth 3 0.44

Acting Debris: 13

	Hoop #3		
MCE (%)	***De (mm)***	***Dt(mm)***	***MCE (%)***
26.23	42	102	41.18
13.10	21	26	80.77
72.09	16	92	17.39
23.53	23	64	35.94
15.38	53	72	73.61
38.89	16	56	28.57
46.56	42	51	82.35
54.12	9	14	64.29
62.16	41	41	100.00
46.15	34	46	73.91
0.00	21	34	61.76
51.22	19	106	17.92
25.00	26	52	50.00
47.42	12	29	41.38
52.17	36	77	46.75
68.00	11	25	44.00
69.23	11	53	20.75
48.65	26	48	54.17
45.90	31	49	63.27
64.71	41	62	66.13
17.65	0	31	0.00
39.62	11	34	32.35
8.40	31	144	21.53
3.13	33	51	64.71
62.79	71	86	82.56
56.14	9	9	100.00
37.27	36	91	39.56
45.65	11	32	34.38
38.54			
78.87			
82.43			
29.09			
44.44			

34.67
44.44
100.00
100.00
100.00
76.12
70.59
52.50
100.00
80.67
100.00
100.00
81.82
100.00
42.86
100.00
84.93

Average MCE (%): 51.40

%Fines: 0.10

WCE: 56.26

Bankfull Depth 3 0.57

	Hoop #3		
MCE (%)	*De (mm)*	*Dt(mm)*	*MCE (%)*
70.00	11	74	14.86
100.00	5	41	12.20
63.64	60	83	72.29
53.19	30	56	53.57
72.00	50	74	67.57
49.12	4	35	11.43
90.63	9	52	17.31
75.00	18	29	62.07
0.00	22	46	47.83
45.61	31	55	56.36
0.00	21	42	50.00
0.00	65	84	77.38
6.90	51	54	94.44
8.16	23	31	74.19
40.00	26	46	56.52
55.32	25	39	64.10
68.63	37	42	88.10
48.28	12	43	27.91
35.90	25	47	53.19
66.67	20	29	68.97
60.56	72	104	69.23
60.00	25	42	59.52
0.00	26	38	68.42
14.29	31	57	54.39
55.56	48	63	76.19
86.79	45	45	100.00
72.73	6	24	25.00
100.00	9	23	39.13
7.41	7	39	17.95
46.88	31	37	83.78
41.51	80	89	89.89
53.19	23	23	100.00
73.24	5	16	31.25
21.43	29	65	44.62

88.57	3	22	13.64
67.19	3	9	33.33
79.31	9	20	45.00
76.47	27	36	75.00
87.80	11	22	50.00
51.85	36	38	94.74
77.50	44	47	93.62
100.00	55	65	84.62
51.43	31	31	100.00
40.74			
75.00			
100.00			
100.00			
87.80			
100.00			
0.00			
84.00			
80.85			
61.54			
70.00			
100.00			
100.00			
60.00			
171.88			
74.42			
71.23			
88.89			
0.00			

Average MCE (%): 58.60

%Fines: 0.15

WCE: 64.81

Bankfull Depth 3 0.30

Hoop #3

MCE (%)
0.00
25.00
72.73
89.83
44.83
56.05
65.08
50.00
47.83
64.56
59.77
27.69
32.35
46.97
6.45
27.27
12.20
67.47
37.80
67.92
57.14
100.00
26.19
100.00
13.56
53.98
64.79
8.82
100.00
100.00
72.54
82.76
66.67
51.56
78.87
100.00
100.00
100.00
100.00
80.49
75.70
78.57
77.36
81.71
53.45

De (mm)	Dt(mm)	MCE (%)
16	32	50.00
13	41	31.71
13	45	28.89
21	63	33.33
12	33	36.36
8	29	27.59
68	118	57.63
16	36	44.44
26	38	68.42
21	38	55.26
12	33	36.36
51	93	54.84
72	106	67.92
76	89	85.39
31	49	63.27
21	29	72.41
22	37	59.46
14	51	27.45
31	62	50.00
6	21	28.57
3	57	5.26
36	48	75.00
41	50	82.00
40	93	43.01
31	92	33.70
18	20	90.00
26	26	100.00
46	46	100.00
21	21	100.00
47	69	68.12
65	65	100.00

48.65
64.20
90.18
100.00

Average MCE (%): 57.30

%Fines: 0.10

WCE: 61.57

Bankfull Depth 3 0.57

	Hoop #3		
MCE (%)	*De (mm)*	*Dt(mm)*	*MCE (%)*
68.42	5	29	17.24
29.79	26	47	55.32
43.24	0	33	0.00
14.29	20	68	29.41
0.00	2	15	13.33
36.36	16	42	38.10
39.29	12	51	23.53
34.38	5	22	22.73
11.11	8	28	28.57
51.43	40	63	63.49
46.94	85	106	80.19
57.78	56	66	84.85
100.00	37	55	67.27
90.91	29	41	70.73
74.00	25	45	55.56
71.43	39	58	67.24
13.64	15	22	68.18
69.39	87	102	85.29
71.43	50	56	89.29
57.97	13	14	92.86
76.00	34	47	72.34
94.00	32	32	100.00
100.00	2	39	5.13
51.85	5	21	23.81
55.00	17	22	77.27

46.67	9	31	29.03
19.40	18	29	62.07
55.77	21	32	65.63
80.00	11	37	29.73
29.17	4	17	23.53
63.16	2	28	7.14
54.05	27	39	69.23
100.00	20	25	80.00
76.47	26	55	47.27
66.67	27	38	71.05
70.83	65	32	203.13
78.38	28	28	100.00
86.96	8	8	100.00
84.42	40	59	67.80
74.70	46	46	100.00
85.11	25	36	69.44
95.77	23	23	100.00
66.67	42	42	100.00
88.68	20	20	100.00
85.42	24	32	75.00
	35	35	100.00
	13	20	65.00

Averge MCE (%): 63.76

%Fines: 0.40

WCE: 78.26

Bankfull Depth 3 0.52

Hoop #3

MCE (%)
0.00
0.00
25.26
67.86
87.84
43.33
0.00
42.59
89.36
77.55
100.00
44.44
100.00
100.00
100.00
100.00
0.00
48.48
28.95
44.83
75.68
69.23
59.09
80.28
11.76
75.00
20.69
77.78
0.00
58.33
85.12
86.84
89.26

De (mm)	Dt(mm)	MCE (%)
36	108	33.33
31	77	40.26
101	138	73.19
126	172	73.26
26	38	68.42
66	97	68.04
19	30	63.33
25	45	55.56
46	50	92.00
31	72	43.06
66	112	58.93
37	81	45.68
1	23	4.35
34	51	66.67
56	97	57.73
0	16	0.00
37	68	54.41
32	67	47.76
26	39	66.67
42	55	76.36
44	56	78.57
22	22	100.00
52	52	100.00
81	87	93.10
42	42	100.00
24	24	100.00
49	49	100.00
31	31	100.00
65	65	100.00
32	32	100.00
37	37	100.00

		#DIV/0!
		#DIV/0!
		#DIV/0!
		#DIV/0!
		#DIV/0!

Average MCE (%):	69.70
%Fines:	0.10
WCE:	72.73

Fish Population Census Inventory Data

Stream name: Pete King Creek **Watershed:**
Sub-Watershed: **Reach:**
Observers: **Recorder:**
Date: 7/21/15 **Time:**
H_2O Temp/ Time: **Air Temp/Time:**
General Weather Obs/Visibility: sunny and clear, good visibilty

Reach Widths (M): 5.95 6.7 6.4 4.7
Average Reach Width (M): 5.67 ***Reach Length (M):*** 50
Habitat Type (s): Pool Pocketwater Riffle Pool-Run
 # Pieces Acting Debris:
Method: (x) Snorkel
( ) Electrofish
( ) Other

OBSERVATIONS

Length Class (in)	Undiff Trout	Steelhead		Chinook		Rainbow		Cutthroat	Brook
		W	A	W	A	W	H		
<2									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
>12									

W= ***Wild & Natural*** A= **Adipose Clipped** H= **Hatchery**

Other Species Observed
(from the list on the right)

Species	#

ABREV.	SPECIES
AG	Artic G
BCR	Black C
BLU	Blue
BSU	Bridgelip
BFR	Bull
CAS	Couer d'Alene
D	Da
LAM	Lam
LMB	Largemo
LSU	Largescal

LD	Longnos
LTS	Long-toed S
MSC	Mottled
MUS	Pearlshe
PGS	Pacific Giant
PFR	Pacific T
PSC	Piute S
RSS	Red-side
SC	Sculpin (ar
SSC	Shorthea
SMB	Smallmo
SD	Speckle
SFR	Spotte
SU	Sucker (an
TFR	Tailed
TSC	Torrent
UFR	Unidentified F
USA	Unidentified
WTD	Wester

DENSITIES (#/100 M^2)

Length Class (in)	*Undiff Trout*	*Steelhead*		*Chinook*		*Rainbow*		*Cutthroat*	*Brook*
		W	*A*	*W*	*A*	*W*	*H*		
<2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
>12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

W= ***Wild & Natural*** A= **Adipose Clipped** H= **Hatchery**

Sheet

pk-15

4.6

Reach Area (M^2): 283.50

Riffle-Run Alcove

Bull	***Whitefish***	***Hybrid***

Catchable

S NAME	SCINAME
rayling	Thymallus arcticus
Crappie	Pomoxis nigromaculatus
egill	Lepomis macrochirus
Sucker	Catostomus columbianus
Frog	Rana catesbeiana
Salamander	Plethodon idahoensis
ce	Rhinichthys sp
prey	Entosphenus tridentatus
uth Bass	Micropterus salmoides
le Sucker	Catostomus macrocheilus

se Dace	Rhinichthys cataractae
Salamander	Ambystoma macrodactylum
Sculpin	Cottus bairdi
ll Mussel	Margaritifera falcata
Salamander	Dicamptodon
Treefrog	Hyla regilla
Sculpin	Cottus beldingi
ed Shiner	Richardsonius balteatus
ny species)	Cottus sp
d Sculpin	Cottus confusus
uth Bass	Micropterus dolomieui
ed Dace	Rhinichthys osculus
d Frog	Rana luteiventris
ny species)	Catostomus sp
l Frog	Ascaphus truei
Sculpin	Cottus rhotheus
Frog Species	
Salamander	
n Toad	Bufo borreas

Bull	***Whitefish***	***Hybrid***
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	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	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

Catchable

Photo 1- Mill Creek blw. Markham, TOR facing downstream

Photo 2- Mill Creek blw. Markham, BOR facing upstream

Figure 1: Map of the reach location