

BEAR CREEK WATERSHED ASSOCIATION
PHYSICAL STREAM INDICES FIELD SHEET BEAR CREEK WATERSHED

LOCAL WATERSHED FEATURES	Predominant Surrounding Landuse <input type="radio"/> Forest <input type="radio"/> Commercial <input checked="" type="radio"/> Meadow/Pasture <input type="radio"/> Open Space <input type="radio"/> Large Lot Mix <input type="radio"/> Other (list) <input checked="" type="radio"/> Residential/Urban BCLP	Local Watershed NPS Pollution in Tier 1 Buffer <input checked="" type="radio"/> No evidence <input type="radio"/> Some potential sources <input type="radio"/> Obvious sources (list) Local Watershed Erosion <input type="radio"/> None <input checked="" type="radio"/> Moderate <input type="radio"/> Heavy (photo)
RIPARIAN VEGETATION (100-ft buffer)	Indicate the dominant type and record the dominant species present <input checked="" type="radio"/> Trees <input type="radio"/> Shrubs <input type="radio"/> Grasses <input type="radio"/> Herbaceous dominant vegetation type present <u>tree/shrub mix</u>	
INSTREAM FEATURES	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> Estimated Reach Length <u>100</u> ft Estimated Stream Width <u>15'</u> ft Sampling Reach Area <u>50</u> ft² Estimated Stream Depth <u>1.95</u> ft Surface Velocity (at mid-channel) <u>1.44</u> cfs </div> <div style="width: 45%;"> Canopy Cover <input type="radio"/> Partly open <input type="radio"/> Partly shaded <input checked="" type="radio"/> Shaded High Water Mark <u>+8</u> ft Proportion of Reach Represented by Stream Morphology Types <input type="radio"/> Riffle <u>35</u> % <input type="radio"/> Run <u>45</u> % <input type="radio"/> Pool <u>20</u> % Channelized <input type="radio"/> Yes <input checked="" type="radio"/> No </div> </div>	
VERY LARGE WOODY DEBRIS	LWD <u>2</u> ft ² Estimated Density of LWD <u>1</u> %/ft ² (LWD/ reach area)	
ROOTED OR FLOATING AQUATIC VEGETATION	Indicate the dominant type and record the dominant species present <input type="radio"/> Rooted emergent <input type="radio"/> Rooted submergent <input type="radio"/> Free floating Dominant species present or photo <u>photo</u> <u>no attached</u> Portion of the reach with aquatic vegetation(excluding Periphyton) <u>0</u> %	
WATER QUALITY	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> Temperature <u>10.7</u> °C Specific Conductance <u>135</u> us/m Dissolved Oxygen <u>8.6</u> mg/l pH <u>7.44</u> su WQ Instrument Used <u>XYSI Multiprobe</u> </div> <div style="width: 45%;"> Water Odors <input checked="" type="radio"/> Normal/None <input type="radio"/> Sewage <input type="radio"/> Petroleum <input type="radio"/> Chemical <input type="radio"/> Fishy <input type="radio"/> Other Water Surface Oils (Visual) <input checked="" type="radio"/> Slick <input type="radio"/> Sheen <input type="radio"/> Globbs <input type="radio"/> Flecks <input checked="" type="radio"/> None <input type="radio"/> Other Turbidity (visual) <input checked="" type="radio"/> Clear <input type="radio"/> Slightly Murky <input type="radio"/> Murky <input type="radio"/> Other </div> </div>	
SEDIMENT/ Periphyton Coverage	Pebble Count <input checked="" type="radio"/> No <u>20%</u> Estimate Embeddedness (%) Periphyton on Rocks <input type="radio"/> <5% <input checked="" type="radio"/> 5-15% <input type="radio"/> 15-25% <input type="radio"/> Profuse >25% Deposits on Substrate <input type="radio"/> Sludge <input type="radio"/> Organic <input type="radio"/> Trash <input type="radio"/> Silt/clay <input type="radio"/> Odors (list) Looking at stones which are not deeply embedded, are the undersides black in color? <input type="radio"/> Yes <input checked="" type="radio"/> No	

INORGANIC SUBSTRATE COMPONENTS (If No Pebble Count, Then Rough Estimate)			SMALLER ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)		
Substrate Type	Diameter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock		5%	Detritus	sticks, wood, coarse plant materials (CPOM)	1
Boulder	> 256 mm (10")	20	Muck-Mud	black, very fine organic (FPOM)	0.5
Cobble	64-256 mm (2.5"-10")	30			
Gravel	2-64 mm (0.1"-2.5")	20			
Sand	0.06-2mm (gritty)	15			
Silt/Clay	0.004-0.06 mm	5	Other	Define:	
		Total			

BEAR CREEK WATERSHED ASSOCIATION
PHYSICAL STREAM INDICES FIELD SHEET BEAR CREEK WATERSHED

STREAM NAME: <u>BCLP</u>		Bear Creek Watershed, Colorado			
BCWA SITE # <u>15A</u>		Colorado Stream Segment Classification: <u>1e</u>			
LAT _____ LONG _____		South Platte River Basin			
Web Site: <u>www.bearcreekwatershed.org</u>		Bear Creek Watershed Association			
INVESTIGATORS:					
COMPLETED BY: Bear Creek Watershed Association Board		DATE TIME <u>9-22-50</u> AM PM <u>8:30</u>	Baseline Habitat Survey for BCWA Sampling Locations; Reference Conditions		
WEATHER CONDITIONS	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> Now <input type="radio"/> storm (heavy rain) <input type="radio"/> rain (steady rain) <input type="radio"/> showers (intermittent) <input type="radio"/> % cloud cover <input checked="" type="radio"/> clear/sunny </td> <td style="width: 50%; vertical-align: top;"> Past 24 hours <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> % <input checked="" type="radio"/> </td> </tr> </table>			Now <input type="radio"/> storm (heavy rain) <input type="radio"/> rain (steady rain) <input type="radio"/> showers (intermittent) <input type="radio"/> % cloud cover <input checked="" type="radio"/> clear/sunny	Past 24 hours <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> % <input checked="" type="radio"/>
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Has there been a heavy rain in the last 7 days? <input type="radio"/> Yes <input checked="" type="radio"/> No Air Temperature <u>65</u> °C Other _____					
SITE LOCATION/MAP	Draw a map of the site and indicate the areas sampled (attach a photograph) <div style="text-align: center; margin-top: 20px;"> </div>				
STREAM CHARACTERIZATION	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> Stream Subsystem <input checked="" type="radio"/> Perennial <input type="radio"/> Intermittent Stream Origin <input type="radio"/> Mainstem <input type="radio"/> Tributary <input type="radio"/> Wetland or fen </td> <td style="width: 50%; vertical-align: top;"> Stream Type <input checked="" type="radio"/> Coldwater <input type="radio"/> Warm-water Watershed Area 236 sq-miles <input checked="" type="radio"/> Bear Creek Drainage <input type="radio"/> Turkey Creek Drainage </td> </tr> </table> <div style="text-align: right; margin-top: 10px;"> <i>transition site-specific temp</i> </div>			Stream Subsystem <input checked="" type="radio"/> Perennial <input type="radio"/> Intermittent Stream Origin <input type="radio"/> Mainstem <input type="radio"/> Tributary <input type="radio"/> Wetland or fen	Stream Type <input checked="" type="radio"/> Coldwater <input type="radio"/> Warm-water Watershed Area 236 sq-miles <input checked="" type="radio"/> Bear Creek Drainage <input type="radio"/> Turkey Creek Drainage
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WATER QUALITY	<table style="width: 100%;"> <tr> <td style="width: 50%;"> Temperature <u>10.5</u> °C Specific Conductance <u>215</u> us/m Dissolved Oxygen <u>10.35</u> mg/l pH <u>7.81</u> su WQ Instrument Used <u>YSI Multiprobe</u> </td><td style="width: 50%;"> Water Odors <input checked="" type="radio"/> Normal/None <input type="radio"/> Sewage <input type="radio"/> Petroleum <input type="radio"/> Chemical <input type="radio"/> Fishy <input type="radio"/> Other Water Surface Oils (Visual) <input checked="" type="radio"/> Slick <input type="radio"/> Sheen <input type="radio"/> Globs <input type="radio"/> Flecks <input checked="" type="radio"/> None <input type="radio"/> Other Turbidity (visual) <input type="radio"/> Clear <input checked="" type="radio"/> Slightly Murky <input type="radio"/> Murky <input type="radio"/> Other </td></tr> </table>		Temperature <u>10.5</u> °C Specific Conductance <u>215</u> us/m Dissolved Oxygen <u>10.35</u> mg/l pH <u>7.81</u> su WQ Instrument Used <u>YSI Multiprobe</u>	Water Odors <input checked="" type="radio"/> Normal/None <input type="radio"/> Sewage <input type="radio"/> Petroleum <input type="radio"/> Chemical <input type="radio"/> Fishy <input type="radio"/> Other Water Surface Oils (Visual) <input checked="" type="radio"/> Slick <input type="radio"/> Sheen <input type="radio"/> Globs <input type="radio"/> Flecks <input checked="" type="radio"/> None <input type="radio"/> Other Turbidity (visual) <input type="radio"/> Clear <input checked="" type="radio"/> Slightly Murky <input type="radio"/> Murky <input type="radio"/> Other
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INORGANIC SUBSTRATE COMPONENTS (If No Pebble Count, Then Rough Estimate)			SMALLER ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)		
Substrate Type	Diameter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock		<u>2%</u>	Detritus	sticks, wood, coarse plant materials (CPOM)	<u>1</u>
Boulder	> 256 mm (10")	<u>10%</u>			
Cobble	64-256 mm (2.5"-10")	<u>20%</u>	Muck-Mud	black, very fine organic (FPOM)	<u>0</u>
Gravel	2-64 mm (0.1"-2.5")	<u>60%</u>			
Sand	0.06-2mm (gritty)	<u>7</u>	Other	Define:	
Silt/Clay	0.004-0.06 mm	<u>1</u>			
		Total			

BEAR CREEK WATERSHED ASSOCIATION
PHYSICAL STREAM INDICES FIELD SHEET BEAR CREEK WATERSHED

STREAM NAME: <u>Morrison</u>		Bear Creek Watershed, Colorado					
BCWA SITE # <u>14A</u>		Colorado Stream Segment Classification: <u>1e</u>					
LAT _____ LONG _____		South Platte River Basin					
Web Site: <u>www.bearcreekwatershed.org</u>		Bear Creek Watershed Association					
INVESTIGATORS: <u>RWC Mike Tom</u>							
COMPLETED BY: Bear Creek Watershed Association Board		DATE TIME <u>9-22-15</u> <u>9:10</u> AM PM	Baseline Habitat Survey for BCWA Sampling Locations; Reference Conditions				
WEATHER CONDITIONS	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> Now <input type="radio"/> storm (heavy rain) <input type="radio"/> rain (steady rain) <input type="radio"/> showers (intermittent) <input type="radio"/> % cloud cover <input checked="" type="radio"/> clear/sunny </td> <td style="width: 50%; vertical-align: top;"> Past 24 hours <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> % <input checked="" type="radio"/> </td> </tr> <tr> <td colspan="2"> Has there been a heavy rain in the last 7 days? <input type="radio"/> Yes <input checked="" type="radio"/> No Air Temperature <u>70</u> °C Other _____ </td> </tr> </table>			Now <input type="radio"/> storm (heavy rain) <input type="radio"/> rain (steady rain) <input type="radio"/> showers (intermittent) <input type="radio"/> % cloud cover <input checked="" type="radio"/> clear/sunny	Past 24 hours <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> % <input checked="" type="radio"/>	Has there been a heavy rain in the last 7 days? <input type="radio"/> Yes <input checked="" type="radio"/> No Air Temperature <u>70</u> °C Other _____	
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SITE LOCATION/MAP	Draw a map of the site and indicate the areas sampled (attach a photograph) <div style="text-align: center; margin-top: 20px;"> </div>						
STREAM CHARACTERIZATION	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> Stream Subsystem <input checked="" type="radio"/> Perennial <input type="radio"/> Intermittent Stream Origin <input type="radio"/> Mainstem <input type="radio"/> Tributary <input type="radio"/> Wetland or fen </td> <td style="width: 50%; vertical-align: top;"> Stream Type <input checked="" type="radio"/> Coldwater <input type="radio"/> Warm-water Watershed Area 236 sq-miles <input checked="" type="radio"/> Bear Creek Drainage <input type="radio"/> Turkey Creek Drainage </td> </tr> </table> <div style="text-align: right; margin-top: 10px;"> <u>Tom</u> <u>Sub species T</u> </div>			Stream Subsystem <input checked="" type="radio"/> Perennial <input type="radio"/> Intermittent Stream Origin <input type="radio"/> Mainstem <input type="radio"/> Tributary <input type="radio"/> Wetland or fen	Stream Type <input checked="" type="radio"/> Coldwater <input type="radio"/> Warm-water Watershed Area 236 sq-miles <input checked="" type="radio"/> Bear Creek Drainage <input type="radio"/> Turkey Creek Drainage		
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RIPARIAN VEGETATION (100-ft buffer)	Indicate the dominant type and record the dominant species present <input checked="" type="radio"/> Trees <input type="radio"/> Shrubs <input type="radio"/> Grasses <input type="radio"/> Herbaceous dominant vegetation type present <u>Trees</u>		
INSTREAM FEATURES	Estimated Reach Length	<u>100</u> ft	Canopy Cover
	Estimated Stream Width	<u>25</u> ft	<input type="radio"/> Partly open <input checked="" type="radio"/> Partly shaded <input type="radio"/> Shaded
	Sampling Reach Area	<u>50</u> ft ²	High Water Mark <u>+ 7</u> ft
	Estimated Stream Depth	<u>1</u> ft	Proportion of Reach Represented by Stream Morphology Types
	Surface Velocity (at mid-channel)	<u>.41 / 1.08</u> cfs	<input type="radio"/> Riffle <u>40</u> % <input type="radio"/> Run <u>40</u> % <input type="radio"/> Pool <u>20</u> % Channelized <input checked="" type="radio"/> Yes <input type="radio"/> No
VERY LARGE WOODY DEBRIS	LWD	<u>9</u> ft ²	
	Estimated Density of LWD	<u>1</u> %/ft ² (LWD/ reach area)	
ROOTED OR FLOATING AQUATIC VEGETATION	Indicate the dominant type and record the dominant species present <input type="radio"/> Rooted emergent <input checked="" type="radio"/> Rooted submergent <input type="radio"/> Free floating Dominant species present or photo <u>green</u> Portion of the reach with aquatic vegetation(excluding Periphyton) <u>1</u> %		
WATER QUALITY	Temperature	<u>10.2</u> °C	Water Odors
	Specific Conductance	<u>212</u> us/m	<input type="radio"/> Normal/None <input checked="" type="radio"/> Sewage <input type="radio"/> Petroleum <input type="radio"/> Chemical <input type="radio"/> Fishy <input type="radio"/> Other
	Dissolved Oxygen	<u>9.98</u> mg/l	Water Surface Oils (Visual)
	pH	<u>7.87</u> su	<input type="radio"/> Slick <input type="radio"/> Sheen <input type="radio"/> Globbs <input type="radio"/> Flecks <input type="radio"/> None <input type="radio"/> Other Turbidity (visual) <input type="radio"/> Clear <input checked="" type="radio"/> Slightly Murky <input type="radio"/> Murky <input type="radio"/> Other
	WQ Instrument Used	<u>YSI Multiprobe</u>	
SEDIMENT/ Periphyton Coverage	Pebble Count <input checked="" type="radio"/> Yes <input type="radio"/> No Estimate Embeddedness (%) <u>15</u> Periphyton on Rocks <input checked="" type="radio"/> <5% <input type="radio"/> 5-15% <input type="radio"/> 15-25% <input type="radio"/> Profuse >25%	Deposits on Substrate <input type="radio"/> Sludge <input type="radio"/> Organic <input type="radio"/> Trash <input type="radio"/> Silt/clay <input type="radio"/> Odors (list) Looking at stones which are not deeply embedded, are the undersides black in color? <input checked="" type="radio"/> Yes <input type="radio"/> No	

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Boulder	> 256 mm (10")	<u>8</u>			
Cobble	64-256 mm (2.5"-10")	<u>33</u>	Muck-Mud	black, very fine organic (FPOM)	<u>1</u>
Gravel	2-64 mm (0.1"-2.5")	<u>35</u>			
Sand	0.06-2mm (gritty)	<u>15</u>	Other	Define:	
Silt/Clay	0.004-0.06 mm	<u>5</u>		<u>red slum</u>	<u>from House</u>
	Total				

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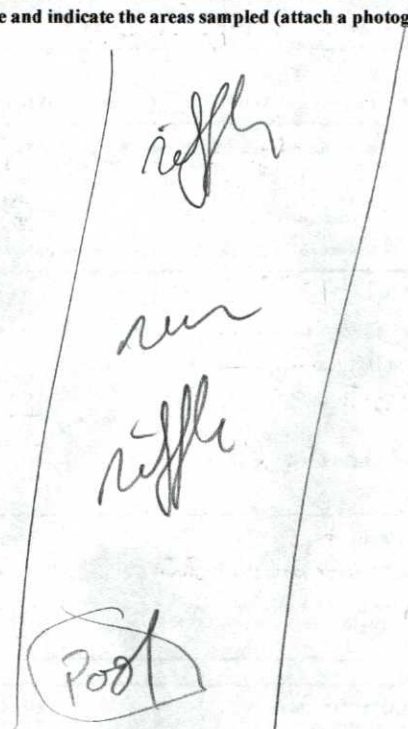
STREAM NAME:		Bear Creek Watershed, Colorado					
BCWA SITE # <u>13A</u>		Colorado Stream Segment Classification:					
LAT _____ LONG _____		South Platte River Basin					
Web Site: www.bearcreekwatershed.org		Bear Creek Watershed Association					
INVESTIGATORS:							
COMPLETED BY: Bear Creek Watershed Association Board		DATE TIME <u>9-22-15</u> <u>10:00</u> AM PM	Baseline Habitat Survey for BCWA Sampling Locations; Reference Conditions				
WEATHER CONDITIONS	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> Now <input type="radio"/> storm (heavy rain) <input type="radio"/> rain (steady rain) <input type="radio"/> showers (intermittent) <input type="radio"/> % cloud cover <input checked="" type="radio"/> clear/sunny </td> <td style="width: 50%; vertical-align: top;"> Past 24 hours <input type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> % <input type="radio"/> </td> </tr> <tr> <td colspan="2"> Has there been a heavy rain in the last 7 days? <input type="radio"/> Yes <input checked="" type="radio"/> No Air Temperature <u>70</u> °C Other _____ </td> </tr> </table>			Now <input type="radio"/> storm (heavy rain) <input type="radio"/> rain (steady rain) <input type="radio"/> showers (intermittent) <input type="radio"/> % cloud cover <input checked="" type="radio"/> clear/sunny	Past 24 hours <input type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> % <input type="radio"/>	Has there been a heavy rain in the last 7 days? <input type="radio"/> Yes <input checked="" type="radio"/> No Air Temperature <u>70</u> °C Other _____	
Now <input type="radio"/> storm (heavy rain) <input type="radio"/> rain (steady rain) <input type="radio"/> showers (intermittent) <input type="radio"/> % cloud cover <input checked="" type="radio"/> clear/sunny	Past 24 hours <input type="radio"/> <input type="radio"/> <input type="radio"/> <input checked="" type="radio"/> % <input type="radio"/>						
Has there been a heavy rain in the last 7 days? <input type="radio"/> Yes <input checked="" type="radio"/> No Air Temperature <u>70</u> °C Other _____							
SITE LOCATION/MAP	Draw a map of the site and indicate the areas sampled (attach a photograph) <div style="text-align: center; margin-top: 20px;"> </div>						
STREAM CHARACTERIZATION	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> Stream Subsystem <input checked="" type="radio"/> Perennial <input type="radio"/> Intermittent Stream Origin <input type="radio"/> Mainstem <input checked="" type="radio"/> Bear Creek Drainage <input type="radio"/> Tributary <input type="radio"/> Turkey Creek Drainage <input type="radio"/> Wetland or fen </td> <td style="width: 50%; vertical-align: top;"> Stream Type <input type="radio"/> Coldwater <input type="radio"/> Warm-water Watershed Area 236 sq-miles </td> </tr> </table> <div style="text-align: right; margin-top: 10px;"> <u>SS Temp</u> </div>			Stream Subsystem <input checked="" type="radio"/> Perennial <input type="radio"/> Intermittent Stream Origin <input type="radio"/> Mainstem <input checked="" type="radio"/> Bear Creek Drainage <input type="radio"/> Tributary <input type="radio"/> Turkey Creek Drainage <input type="radio"/> Wetland or fen	Stream Type <input type="radio"/> Coldwater <input type="radio"/> Warm-water Watershed Area 236 sq-miles		
Stream Subsystem <input checked="" type="radio"/> Perennial <input type="radio"/> Intermittent Stream Origin <input type="radio"/> Mainstem <input checked="" type="radio"/> Bear Creek Drainage <input type="radio"/> Tributary <input type="radio"/> Turkey Creek Drainage <input type="radio"/> Wetland or fen	Stream Type <input type="radio"/> Coldwater <input type="radio"/> Warm-water Watershed Area 236 sq-miles						

BEAR CREEK WATERSHED ASSOCIATION
PHYSICAL STREAM INDICES FIELD SHEET BEAR CREEK WATERSHED

LOCAL WATERSHED FEATURES	Predominant Surrounding Landuse <input type="radio"/> Forest <input checked="" type="radio"/> Commercial <input type="radio"/> Meadow/Pasture <input type="radio"/> Open Space <input type="radio"/> Large Lot Mix <input type="radio"/> Other (list) <input type="radio"/> Residential/Urban	Local Watershed NPS Pollution in Tier 1 Buffer <input type="radio"/> No evidence <input type="radio"/> Some potential sources <input type="radio"/> Obvious sources (list) Local Watershed Erosion <input type="radio"/> None <input checked="" type="radio"/> Moderate <input type="radio"/> Heavy (photo)
RIPARIAN VEGETATION (100-ft buffer)	Indicate the dominant type and record the dominant species present <input checked="" type="radio"/> Trees <input type="radio"/> Shrubs <input type="radio"/> Grasses <input type="radio"/> Herbaceous dominant vegetation type present <u>Shrub</u>	
INSTREAM FEATURES	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> Estimated Reach Length <u>100</u> ft Estimated Stream Width <u>25</u> ft Sampling Reach Area <u>50</u> ft² Estimated Stream Depth <u>0.75</u> ft Surface Velocity (at mid-channel) <u>79/1.52</u> cfs </div> <div style="width: 45%;"> Canopy Cover <input type="radio"/> Partly open <input checked="" type="radio"/> Partly shaded <input type="radio"/> Shaded High Water Mark <u>+4</u> ft Proportion of Reach Represented by Stream Morphology Types <input type="radio"/> Riffle <u>45</u> % <input type="radio"/> Run <u>45</u> % <input type="radio"/> Pool <u>10</u> % Channelized <input type="radio"/> Yes <input checked="" type="radio"/> No </div> </div>	
VERY LARGE WOODY DEBRIS	LWD <u>2</u> ft ² Estimated Density of LWD <u>1</u> %/ft ² (LWD/ reach area)	
ROOTED OR FLOATING AQUATIC VEGETATION	Indicate the dominant type and record the dominant species present <input type="radio"/> Rooted emergent <input checked="" type="radio"/> Rooted submergent <input type="radio"/> Free floating Dominant species present or photo <u>green</u> Portion of the reach with aquatic vegetation(excluding Periphyton) <u>1</u> %	
WATER QUALITY	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> Temperature <u>10.7</u> °C Specific Conductance <u>29</u> us/m Dissolved Oxygen <u>10.32</u> mg/l pH <u>7.85</u> su WQ Instrument Used <input checked="" type="checkbox"/> YSI Multiprobe </div> <div style="width: 45%;"> Water Odors <input checked="" type="radio"/> Normal/None <input type="radio"/> Sewage <input type="radio"/> Petroleum <input type="radio"/> Chemical <input type="radio"/> Fishy <input type="radio"/> Other Water Surface Oils (Visual) <input type="radio"/> Slick <input type="radio"/> Sheen <input type="radio"/> Globs <input type="radio"/> Flecks <input type="radio"/> None <input type="radio"/> Other Turbidity (visual) <input type="radio"/> Clear <input checked="" type="radio"/> Slightly Murky <input type="radio"/> Murky <input type="radio"/> Other </div> </div>	
SEDIMENT/ Periphyton Coverage	Pebble Count <input type="radio"/> Yes <input checked="" type="radio"/> No Estimate Embeddedness (%) <u>20%</u> Periphyton on Rocks <input type="radio"/> <5% <input type="radio"/> 5-15% <input type="radio"/> 15-25% <input type="radio"/> Profuse >25% Deposits on Substrate <input type="radio"/> Sludge <input type="radio"/> Organic <input type="radio"/> Trash <input type="radio"/> Silt/clay <input type="radio"/> Odors (list) Looking at stones which are not deeply embedded, are the undersides black in color? <input type="radio"/> Yes <input checked="" type="radio"/> No	

INORGANIC SUBSTRATE COMPONENTS (If No Pebble Count, Then Rough Estimate)			SMALLER ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)		
Substrate Type	Diameter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock		<u>2</u>	Detritus	sticks, wood, coarse plant materials (CPOM)	<u>1</u>
Boulder	> 256 mm (10")	<u>15</u>			
Cobble	64-256 mm (2.5"-10")	<u>45</u>	Muck-Mud	black, very fine organic (FPOM)	<u>0.1</u>
Gravel	2-64 mm (0.1"-2.5")	<u>25</u>			
Sand	0.06-2mm (gritty)	<u>13</u>	Other	Define:	
Silt/Clay	0.004-0.06 mm	<u>1</u>			
		Total			

BEAR CREEK WATERSHED ASSOCIATION
PHYSICAL STREAM INDICES FIELD SHEET BEAR CREEK WATERSHED

STREAM NAME: <u>Lain O'Boa</u>		Bear Creek Watershed, Colorado	
BCWA SITE # <u>12</u>		Colorado Stream Segment Classification: <u>1e</u>	
LAT _____ LONG _____		South Platte River Basin	
Web Site: www.bearcreekwatershed.org		Bear Creek Watershed Association	
INVESTIGATORS: _____			
COMPLETED BY: Bear Creek Watershed Association Board		DATE TIME <u>9-22-15</u> <u>10:30</u> AM PM	Baseline Habitat Survey for BCWA Sampling Locations; Reference Conditions
WEATHER CONDITIONS	Now <input type="radio"/> storm (heavy rain) <input type="radio"/> rain (steady rain) <input type="radio"/> showers (intermittent) <input type="radio"/> % cloud cover <input checked="" type="radio"/> clear/sunny	Past 24 hours <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> % <input checked="" type="radio"/>	Has there been a heavy rain in the last 7 days? <input type="radio"/> Yes <input checked="" type="radio"/> No Air Temperature <u>70</u> °C Other _____
SITE LOCATION/MAP	Draw a map of the site and indicate the areas sampled (attach a photograph) <div style="text-align: center; margin-top: 20px;">  </div>		
STREAM CHARACTERIZATION	<div style="display: flex; justify-content: space-between;"> <div> Stream Subsystem <input checked="" type="radio"/> Perennial <input type="radio"/> Intermittent Stream Origin <input checked="" type="radio"/> Mainstem <input type="radio"/> Tributary <input type="radio"/> Wetland or fen </div> <div> Stream Type <input checked="" type="radio"/> Coldwater <input type="radio"/> Warm-water Watershed Area 236 sq-miles </div> <div> <input checked="" type="radio"/> Bear Creek Drainage <input type="radio"/> Turkey Creek Drainage </div> </div>		

BEAR CREEK WATERSHED ASSOCIATION
PHYSICAL STREAM INDICES FIELD SHEET BEAR CREEK WATERSHED

LOCAL WATERSHED FEATURES	Predominant Surrounding Landuse <input type="checkbox"/> Forest <input checked="" type="checkbox"/> Commercial <input checked="" type="checkbox"/> Open Space <input type="checkbox"/> Meadow/Pasture <input type="checkbox"/> Large Lot Mix <input type="checkbox"/> Other (list) <input type="checkbox"/> Residential/Urban <i>Park</i>	Local Watershed NPS Pollution in Tier 1 Buffer <input type="checkbox"/> No evidence <input checked="" type="checkbox"/> Some potential sources <input type="checkbox"/> Obvious sources (list) Local Watershed Erosion <input type="checkbox"/> None <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Heavy (photo)
RIPARIAN VEGETATION (100-ft buffer)	Indicate the dominant type and record the dominant species present <input type="checkbox"/> Trees <input checked="" type="checkbox"/> Shrubs <input type="checkbox"/> Grasses <input type="checkbox"/> Herbaceous dominant vegetation type present <i>shrub</i>	
INSTREAM FEATURES	Estimated Reach Length <i>100</i> ft Estimated Stream Width <i>30</i> ft Sampling Reach Area <i>50</i> ft ² Estimated Stream Depth <i>.75</i> ft Surface Velocity (at mid-channel) <i>1.5 / 1.57</i> cfs Canopy Cover <input type="checkbox"/> Partly open <input checked="" type="checkbox"/> Partly shaded <input type="checkbox"/> Shaded High Water Mark <i>+ 3</i> ft Proportion of Reach Represented by Stream Morphology Types <input type="checkbox"/> Riffle <i>30</i> % <input type="checkbox"/> Run <i>40</i> % <input type="checkbox"/> Pool <i>30</i> % Channelized <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
VERY LARGE WOODY DEBRIS	LWD <i>2</i> ft ² Estimated Density of LWD <i>1</i> %/ft ² (LWD/ reach area)	
ROOTED OR FLOATING AQUATIC VEGETATION	Indicate the dominant type and record the dominant species present <input type="checkbox"/> Rooted emergent <input checked="" type="checkbox"/> Rooted submergent <input type="checkbox"/> Free floating Dominant species present or photo <i>long green</i> Portion of the reach with aquatic vegetation(excluding Periphyton) <i>1</i> %	
WATER QUALITY	Temperature <i>12.0</i> °C Specific Conductance <i>147</i> us/m Dissolved Oxygen <i>9.12</i> mg/l pH <i>7.93</i> su WQ Instrument Used <input checked="" type="checkbox"/> YSI Multiprobe Water Odors <input type="checkbox"/> Normal/None <input checked="" type="checkbox"/> Sewage <input type="checkbox"/> Petroleum <input type="checkbox"/> Chemical <input type="checkbox"/> Fishy <input type="checkbox"/> Other Water Surface Oils (Visual) <input type="checkbox"/> Slick <input checked="" type="checkbox"/> Sheen <input type="checkbox"/> Globbs <input type="checkbox"/> Flecks <input type="checkbox"/> None <input type="checkbox"/> Other Turbidity (visual) <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Slightly Murky <input type="checkbox"/> Murky <input type="checkbox"/> Other	
SEDIMENT/ Periphyton Coverage	Pebble Count <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Estimate Embeddedness (%) <i>20</i> Periphyton on Rocks <input checked="" type="checkbox"/> <5% <input type="checkbox"/> 5-15% <input type="checkbox"/> 15-25% <input type="checkbox"/> Profuse >25% Deposits on Substrate <input type="checkbox"/> Sludge <input type="checkbox"/> Organic <input checked="" type="checkbox"/> Trash <input type="checkbox"/> Silt/clay <input type="checkbox"/> Odors (list) Looking at stones which are not deeply embedded, are the undersides black in color? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

INORGANIC SUBSTRATE COMPONENTS (If No Pebble Count, Then Rough Estimate)			SMALLER ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)		
Substrate Type	Diameter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock		<i>2</i>	Detritus	sticks, wood, coarse plant materials (CPOM)	<i>1</i>
Boulder	> 256 mm (10")	<i>20</i>			
Cobble	64-256 mm (2.5"-10")	<i>30</i>	Muck-Mud	black, very fine organic (FPOM)	<i>1</i>
Gravel	2-64 mm (0.1"-2.5")	<i>48</i>			
Sand	0.06-2mm (gritty)	<i>8</i>	Other	Define:	
Silt/Clay	0.004-0.06 mm	<i>2</i>			
	Total				

*Construct dams 90 degree
poor design*

BEAR CREEK WATERSHED ASSOCIATION
PHYSICAL STREAM INDICES FIELD SHEET BEAR CREEK WATERSHED

STREAM NAME: <u>O Fallen</u>		Bear Creek Watershed, Colorado	
BCWA SITE # <u>9</u>		Colorado Stream Segment Classification:	
LAT _____ LONG _____		South Platte River Basin	
Web Site: <u>www.bearcreekwatershed.org</u>		Bear Creek Watershed Association	
INVESTIGATORS: <u>RJC</u>			
COMPLETED BY: Bear Creek Watershed Association Board		DATE TIME <u>9-22-15</u> <u>11:00</u> AM PM	Baseline Habitat Survey for BCWA Sampling Locations; Reference Conditions
WEATHER CONDITIONS	<div style="display: flex; justify-content: space-between;"> <div> <p>Now</p> <p><input type="radio"/> storm (heavy rain)</p> <p><input type="radio"/> rain (steady rain)</p> <p><input type="radio"/> showers (intermittent)</p> <p><input type="radio"/> % cloud cover</p> <p><input checked="" type="radio"/> clear/sunny</p> </div> <div> <p>Past 24 hours</p> <p><input type="radio"/></p> <p><input type="radio"/></p> <p><input type="radio"/></p> <p><input type="radio"/> %</p> </div> <div> <p>Has there been a heavy rain in the last 7 days?</p> <p><input type="radio"/> Yes <input checked="" type="radio"/> No</p> <p>Air Temperature <u>10</u> °C</p> <p>Other _____</p> </div> </div>		
SITE LOCATION/MAP	<p>Draw a map of the site and indicate the areas sampled (attach a photograph)</p> <div style="text-align: center; margin-top: 20px;"> </div>		
STREAM CHARACTERIZATION	<div style="display: flex; justify-content: space-between;"> <div> <p>Stream Subsystem</p> <p><input checked="" type="radio"/> Perennial <input type="radio"/> Intermittent</p> <p>Stream Origin</p> <p><input checked="" type="radio"/> Mainstem</p> <p><input type="radio"/> Tributary</p> <p><input type="radio"/> Wetland or fen</p> </div> <div> <p>Stream Type</p> <p><input checked="" type="radio"/> Coldwater <input type="radio"/> Warm-water</p> <p>Watershed Area 236 sq-miles</p> </div> <div> <p><input checked="" type="radio"/> Bear Creek Drainage</p> <p><input type="radio"/> Turkey Creek Drainage</p> </div> </div> <div style="text-align: right; margin-top: 10px;"> <p><u>SC Torg</u></p> </div>		

BEAR CREEK WATERSHED ASSOCIATION
PHYSICAL STREAM INDICES FIELD SHEET BEAR CREEK WATERSHED

LOCAL WATERSHED FEATURES	Predominant Surrounding Landuse <input type="checkbox"/> Forest <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Meadow/Pasture <input type="checkbox"/> Open Space <input type="checkbox"/> Large Lot Mix <input type="checkbox"/> Other (list) <input type="checkbox"/> Residential/Urban <i>cabin</i>	Local Watershed NPS Pollution in Tier 1 Buffer <input type="checkbox"/> No evidence <input checked="" type="checkbox"/> Some potential sources <input type="checkbox"/> Obvious sources (list) Local Watershed Erosion <input type="checkbox"/> None <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Heavy (photo)		
RIPARIAN VEGETATION (100-ft buffer)	Indicate the dominant type and record the dominant species present <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Grasses <input type="checkbox"/> Herbaceous dominant vegetation type present <i>Tree/Shrub</i>			
INSTREAM FEATURES	<table style="width: 100%;"> <tr> <td style="width: 50%;"> Estimated Reach Length <i>100</i> ft Estimated Stream Width <i>35</i> ft Sampling Reach Area <i>50</i> ft² Estimated Stream Depth <i>.50</i> ft Surface Velocity (at mid-channel) <i>3 1/1.62</i> cfs </td> <td style="width: 50%;"> Canopy Cover <input checked="" type="checkbox"/> Partly open <input type="checkbox"/> Partly shaded <input type="checkbox"/> Shaded High Water Mark <i>+5</i> ft Proportion of Reach Represented by Stream Morphology Types <input type="checkbox"/> Riffle <i>70</i> % <input type="checkbox"/> Run <i>25</i> % <input type="checkbox"/> Pool <i>5</i> % Channelized <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </td> </tr> </table>		Estimated Reach Length <i>100</i> ft Estimated Stream Width <i>35</i> ft Sampling Reach Area <i>50</i> ft ² Estimated Stream Depth <i>.50</i> ft Surface Velocity (at mid-channel) <i>3 1/1.62</i> cfs	Canopy Cover <input checked="" type="checkbox"/> Partly open <input type="checkbox"/> Partly shaded <input type="checkbox"/> Shaded High Water Mark <i>+5</i> ft Proportion of Reach Represented by Stream Morphology Types <input type="checkbox"/> Riffle <i>70</i> % <input type="checkbox"/> Run <i>25</i> % <input type="checkbox"/> Pool <i>5</i> % Channelized <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Estimated Reach Length <i>100</i> ft Estimated Stream Width <i>35</i> ft Sampling Reach Area <i>50</i> ft ² Estimated Stream Depth <i>.50</i> ft Surface Velocity (at mid-channel) <i>3 1/1.62</i> cfs	Canopy Cover <input checked="" type="checkbox"/> Partly open <input type="checkbox"/> Partly shaded <input type="checkbox"/> Shaded High Water Mark <i>+5</i> ft Proportion of Reach Represented by Stream Morphology Types <input type="checkbox"/> Riffle <i>70</i> % <input type="checkbox"/> Run <i>25</i> % <input type="checkbox"/> Pool <i>5</i> % Channelized <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
VERY LARGE WOODY DEBRIS	LWD <i>2</i> ft ² Estimated Density of LWD <i>1</i> %/ft ² (LWD/ reach area)			
ROOTED OR FLOATING AQUATIC VEGETATION	Indicate the dominant type and record the dominant species present <input type="checkbox"/> Rooted emergent <input type="checkbox"/> Rooted submergent <input type="checkbox"/> Free floating <i>None</i> Dominant species present or photo _____ Portion of the reach with aquatic vegetation(excluding Periphyton) <i>0</i> %			
WATER QUALITY	<table style="width: 100%;"> <tr> <td style="width: 50%;"> Temperature <i>13.4</i> °C Specific Conductance <i>117</i> us/m Dissolved Oxygen <i>8.61</i> mg/l pH <i>7.88</i> su WQ Instrument Used <i>X</i> YSI Multiprobe </td> <td style="width: 50%;"> Water Odors <input checked="" type="checkbox"/> Normal/None <input type="checkbox"/> Sewage <input type="checkbox"/> Petroleum <input type="checkbox"/> Chemical <input type="checkbox"/> Fishy <input type="checkbox"/> Other Water Surface Oils (Visual) <input type="checkbox"/> Slick <input type="checkbox"/> Sheen <input type="checkbox"/> Globbs <input type="checkbox"/> Flecks <input type="checkbox"/> None <input type="checkbox"/> Other Turbidity (visual) <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Slightly Murky <input type="checkbox"/> Murky <input type="checkbox"/> Other </td> </tr> </table>		Temperature <i>13.4</i> °C Specific Conductance <i>117</i> us/m Dissolved Oxygen <i>8.61</i> mg/l pH <i>7.88</i> su WQ Instrument Used <i>X</i> YSI Multiprobe	Water Odors <input checked="" type="checkbox"/> Normal/None <input type="checkbox"/> Sewage <input type="checkbox"/> Petroleum <input type="checkbox"/> Chemical <input type="checkbox"/> Fishy <input type="checkbox"/> Other Water Surface Oils (Visual) <input type="checkbox"/> Slick <input type="checkbox"/> Sheen <input type="checkbox"/> Globbs <input type="checkbox"/> Flecks <input type="checkbox"/> None <input type="checkbox"/> Other Turbidity (visual) <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Slightly Murky <input type="checkbox"/> Murky <input type="checkbox"/> Other
Temperature <i>13.4</i> °C Specific Conductance <i>117</i> us/m Dissolved Oxygen <i>8.61</i> mg/l pH <i>7.88</i> su WQ Instrument Used <i>X</i> YSI Multiprobe	Water Odors <input checked="" type="checkbox"/> Normal/None <input type="checkbox"/> Sewage <input type="checkbox"/> Petroleum <input type="checkbox"/> Chemical <input type="checkbox"/> Fishy <input type="checkbox"/> Other Water Surface Oils (Visual) <input type="checkbox"/> Slick <input type="checkbox"/> Sheen <input type="checkbox"/> Globbs <input type="checkbox"/> Flecks <input type="checkbox"/> None <input type="checkbox"/> Other Turbidity (visual) <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Slightly Murky <input type="checkbox"/> Murky <input type="checkbox"/> Other			
SEDIMENT/ Periphyton Coverage	<table style="width: 100%;"> <tr> <td style="width: 50%;"> Pebble Count <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Estimate Embeddedness (%) <i>20%</i> Periphyton on Rocks <input checked="" type="checkbox"/> <5% <input type="checkbox"/> 5-15% <input type="checkbox"/> 15-25% <input type="checkbox"/> Profuse >25% </td> <td style="width: 50%;"> Deposits on Substrate <input type="checkbox"/> Sludge <input type="checkbox"/> Organic <input type="checkbox"/> Trash <input type="checkbox"/> Silt/clay <input type="checkbox"/> Odors (list) Looking at stones which are not deeply embedded, are the undersides black in color? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> </table>		Pebble Count <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Estimate Embeddedness (%) <i>20%</i> Periphyton on Rocks <input checked="" type="checkbox"/> <5% <input type="checkbox"/> 5-15% <input type="checkbox"/> 15-25% <input type="checkbox"/> Profuse >25%	Deposits on Substrate <input type="checkbox"/> Sludge <input type="checkbox"/> Organic <input type="checkbox"/> Trash <input type="checkbox"/> Silt/clay <input type="checkbox"/> Odors (list) Looking at stones which are not deeply embedded, are the undersides black in color? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Pebble Count <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Estimate Embeddedness (%) <i>20%</i> Periphyton on Rocks <input checked="" type="checkbox"/> <5% <input type="checkbox"/> 5-15% <input type="checkbox"/> 15-25% <input type="checkbox"/> Profuse >25%	Deposits on Substrate <input type="checkbox"/> Sludge <input type="checkbox"/> Organic <input type="checkbox"/> Trash <input type="checkbox"/> Silt/clay <input type="checkbox"/> Odors (list) Looking at stones which are not deeply embedded, are the undersides black in color? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

INORGANIC SUBSTRATE COMPONENTS (If No Pebble Count, Then Rough Estimate)			SMALLER ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)		
Substrate Type	Diameter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock		<i>2</i>	Detritus	sticks, wood, coarse plant materials (CPOM)	<i>1</i>
Boulder	> 256 mm (10")	<i>10</i>			
Cobble	64-256 mm (2.5"-10")	<i>45</i>	Muck-Mud	black, very fine organic (FPOM)	<i>0.1</i>
Gravel	2-64 mm (0.1"-2.5")	<i>25</i>			
Sand	0.06-2mm (gritty)	<i>6</i>	Other	Define:	
Silt/Clay	0.004-0.06 mm	<i>2</i>			
	Total				

**BEAR CREEK WATERSHED ASSOCIATION
PHYSICAL STREAM INDICES FIELD SHEET BEAR CREEK WATERSHED**

STREAM NAME: <u>BCC</u>		Bear Creek Watershed, Colorado	
BCWA SITE # <u>8 B</u>		Colorado Stream Segment Classification: <u>1e</u>	
LAT _____ LONG _____		South Platte River Basin	
Web Site: <u>www.bearcreekwatershed.org</u>		Bear Creek Watershed Association	
INVESTIGATORS: <u>RNC</u>			
COMPLETED BY: Bear Creek Watershed Association Board		DATE TIME <u>9-28-15</u> <u>11:30</u> AM PM	Baseline Habitat Survey for BCWA Sampling Locations; Reference Conditions
WEATHER CONDITIONS	Now	Past 24 hours	Has there been a heavy rain in the last 7 days?
	<input type="radio"/> storm (heavy rain) <input type="radio"/> rain (steady rain) <input type="radio"/> showers (intermittent) <input type="radio"/> % cloud cover <input checked="" type="radio"/> clear/sunny	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> %	<input type="radio"/> Yes <input checked="" type="radio"/> No Air Temperature <u>70</u> °C Other _____
SITE LOCATION/MAP	Draw a map of the site and indicate the areas sampled (attach a photograph) <div style="text-align: center;"> </div>		
STREAM CHARACTERIZATION	Stream Subsystem <input checked="" type="radio"/> Perennial <input type="radio"/> Intermittent		
	Stream Type <input checked="" type="radio"/> Coldwater <input type="radio"/> Warm-water Stream Origin <input checked="" type="radio"/> Mainstem <input type="radio"/> Tributary <input type="radio"/> Wetland or fen <input type="radio"/> Bear Creek Drainage <input type="radio"/> Turkey Creek Drainage Watershed Area 236 sq-miles		

SS Temp

BEAR CREEK WATERSHED ASSOCIATION
PHYSICAL STREAM INDICES FIELD SHEET BEAR CREEK WATERSHED

LOCAL WATERSHED FEATURES	Predominant Surrounding Landuse <input type="radio"/> Forest <input type="radio"/> Commercial <input checked="" type="radio"/> Meadow/Pasture <input type="radio"/> Open Space <input type="radio"/> Large Lot Mix <input type="radio"/> Other (list) <input type="radio"/> Residential/Urban	Local Watershed NPS Pollution in Tier 1 Buffer <input type="radio"/> No evidence <input type="radio"/> Some potential sources <input checked="" type="radio"/> Obvious sources (list) <u>House/SM</u> Local Watershed Erosion <input type="radio"/> None <input checked="" type="radio"/> Moderate <input type="radio"/> Heavy (photo)		
RIPARIAN VEGETATION (100-ft buffer)	Indicate the dominant type and record the dominant species present <input checked="" type="radio"/> Trees <input type="radio"/> Shrubs <input type="radio"/> Grasses <input type="radio"/> Herbaceous dominant vegetation type present <u>Shrubs</u>			
INSTREAM FEATURES	<table style="width: 100%;"> <tr> <td style="width: 50%;"> Estimated Reach Length <u>100</u> ft Estimated Stream Width <u>30</u> ft Sampling Reach Area <u>50</u> ft² Estimated Stream Depth <u>1</u> ft Surface Velocity (at mid-channel) <u>1.82</u> <u>1.97</u> cfs </td><td style="width: 50%;"> Canopy Cover <input type="radio"/> Partly open <input checked="" type="radio"/> Partly shaded <input type="radio"/> Shaded High Water Mark <u>+6</u> ft Proportion of Reach Represented by Stream Morphology Types <input type="radio"/> Riffle <u>35</u> % <input type="radio"/> Run <u>35</u> % <input type="radio"/> Pool <u>30</u> % Channelized <input checked="" type="radio"/> Yes <input type="radio"/> No </td></tr> </table>		Estimated Reach Length <u>100</u> ft Estimated Stream Width <u>30</u> ft Sampling Reach Area <u>50</u> ft ² Estimated Stream Depth <u>1</u> ft Surface Velocity (at mid-channel) <u>1.82</u> <u>1.97</u> cfs	Canopy Cover <input type="radio"/> Partly open <input checked="" type="radio"/> Partly shaded <input type="radio"/> Shaded High Water Mark <u>+6</u> ft Proportion of Reach Represented by Stream Morphology Types <input type="radio"/> Riffle <u>35</u> % <input type="radio"/> Run <u>35</u> % <input type="radio"/> Pool <u>30</u> % Channelized <input checked="" type="radio"/> Yes <input type="radio"/> No
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VERY LARGE WOODY DEBRIS	LWD <u>6</u> ft ² Estimated Density of LWD <u>1</u> %/ft ² (LWD/ reach area)			
ROOTED OR FLOATING AQUATIC VEGETATION	Indicate the dominant type and record the dominant species present <input type="radio"/> Rooted emergent <input checked="" type="radio"/> Rooted submergent <input type="radio"/> Free floating Dominant species present or photo <u>Green / ponded</u> Portion of the reach with aquatic vegetation(excluding Periphyton) <u>1</u> %			
WATER QUALITY	<table style="width: 100%;"> <tr> <td style="width: 50%;"> Temperature <u>7.4</u> °C Specific Conductance <u>1073</u> us/m Dissolved Oxygen <u>10.92</u> mg/l pH <u>7.75</u> su WQ Instrument Used <u>X</u> YSI Multiprobe </td><td style="width: 50%;"> Water Odors <input checked="" type="radio"/> Normal/None <input type="radio"/> Sewage <input type="radio"/> Petroleum <input type="radio"/> Chemical <input type="radio"/> Fishy <input type="radio"/> Other Water Surface Oils (Visual) <input type="radio"/> Slick <input type="radio"/> Sheen <input type="radio"/> Globbs <input type="radio"/> Flecks <input type="radio"/> None <input type="radio"/> Other Turbidity (visual) <input type="radio"/> Clear <input checked="" type="radio"/> Slightly Murky <input type="radio"/> Murky <input type="radio"/> Other </td></tr> </table>		Temperature <u>7.4</u> °C Specific Conductance <u>1073</u> us/m Dissolved Oxygen <u>10.92</u> mg/l pH <u>7.75</u> su WQ Instrument Used <u>X</u> YSI Multiprobe	Water Odors <input checked="" type="radio"/> Normal/None <input type="radio"/> Sewage <input type="radio"/> Petroleum <input type="radio"/> Chemical <input type="radio"/> Fishy <input type="radio"/> Other Water Surface Oils (Visual) <input type="radio"/> Slick <input type="radio"/> Sheen <input type="radio"/> Globbs <input type="radio"/> Flecks <input type="radio"/> None <input type="radio"/> Other Turbidity (visual) <input type="radio"/> Clear <input checked="" type="radio"/> Slightly Murky <input type="radio"/> Murky <input type="radio"/> Other
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SEDIMENT/ Periphyton Coverage	<table style="width: 100%;"> <tr> <td style="width: 50%;"> Pebble Count <input type="radio"/> Yes <input checked="" type="radio"/> No Estimate Embeddedness (%) <u>30%</u> Periphyton on Rocks <input checked="" type="radio"/> <5% <input type="radio"/> 5-15% <input type="radio"/> 15-25% <input type="radio"/> Profuse >25% </td><td style="width: 50%;"> Deposits on Substrate <input type="radio"/> Sludge <input type="radio"/> Organic <input type="radio"/> Trash <input checked="" type="radio"/> Silt/clay <input type="radio"/> Odors (list) Looking at stones which are not deeply embedded, are the undersides black in color? <input checked="" type="radio"/> Yes <input type="radio"/> No </td></tr> </table>		Pebble Count <input type="radio"/> Yes <input checked="" type="radio"/> No Estimate Embeddedness (%) <u>30%</u> Periphyton on Rocks <input checked="" type="radio"/> <5% <input type="radio"/> 5-15% <input type="radio"/> 15-25% <input type="radio"/> Profuse >25%	Deposits on Substrate <input type="radio"/> Sludge <input type="radio"/> Organic <input type="radio"/> Trash <input checked="" type="radio"/> Silt/clay <input type="radio"/> Odors (list) Looking at stones which are not deeply embedded, are the undersides black in color? <input checked="" type="radio"/> Yes <input type="radio"/> No
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INORGANIC SUBSTRATE COMPONENTS (If No Pebble Count, Then Rough Estimate)			SMALLER ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)		
Substrate Type	Diameter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock		<u>8%</u>	Detritus	sticks, wood, coarse plant materials (CPOM)	<u>1%</u>
Boulder	> 256 mm (10")	<u>10%</u>			
Cobble	64-256 mm (2.5"-10")	<u>30%</u>	Muck-Mud	black, very fine organic (FPOM)	<u>1%</u>
Gravel	2-64 mm (0.1"-2.5")	<u>30%</u>			
Sand	0.06-2mm (gritty)	<u>20%</u>	Other	Define:	
Silt/Clay	0.004-0.06 mm	<u>2%</u>			
	Total				

BEAR CREEK WATERSHED ASSOCIATION
PHYSICAL STREAM INDICES FIELD SHEET BEAR CREEK WATERSHED

STREAM NAME: <u>Bear</u>		Bear Creek Watershed, Colorado				
BCWA SITE # <u>3A</u>		Colorado Stream Segment Classification:				
LAT _____ LONG _____		South Platte River Basin				
Web Site: <u>www.bearcreekwatershed.org</u>		Bear Creek Watershed Association				
INVESTIGATORS: <u>Rue Jan</u>						
COMPLETED BY: Bear Creek Watershed Association Board		DATE <u>9-21-15</u> <u>11:00</u> (AM) PM	Baseline Habitat Survey for BCWA Sampling Locations; Reference Conditions			
WEATHER CONDITIONS	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> Now <input type="radio"/> storm (heavy rain) <input type="radio"/> rain (steady rain) <input type="radio"/> showers (intermittent) <input type="radio"/> % cloud cover <input checked="" type="radio"/> clear/sunny </td> <td style="width: 10%; vertical-align: top;"> Past 24 hours <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> % </td> <td style="width: 40%; vertical-align: top;"> Has there been a heavy rain in the last 7 days? <input type="radio"/> Yes <input checked="" type="radio"/> No Air Temperature <u>70</u> °C Other _____ </td> </tr> </table>			Now <input type="radio"/> storm (heavy rain) <input type="radio"/> rain (steady rain) <input type="radio"/> showers (intermittent) <input type="radio"/> % cloud cover <input checked="" type="radio"/> clear/sunny	Past 24 hours <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> %	Has there been a heavy rain in the last 7 days? <input type="radio"/> Yes <input checked="" type="radio"/> No Air Temperature <u>70</u> °C Other _____
Now <input type="radio"/> storm (heavy rain) <input type="radio"/> rain (steady rain) <input type="radio"/> showers (intermittent) <input type="radio"/> % cloud cover <input checked="" type="radio"/> clear/sunny	Past 24 hours <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> %	Has there been a heavy rain in the last 7 days? <input type="radio"/> Yes <input checked="" type="radio"/> No Air Temperature <u>70</u> °C Other _____				
SITE LOCATION/MAP	Draw a map of the site and indicate the areas sampled (attach a photograph) <div style="text-align: center; margin-top: 20px;"> </div>					
STREAM CHARACTERIZATION	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> Stream Subsystem <input checked="" type="radio"/> Perennial <input type="radio"/> Intermittent Stream Origin <input type="radio"/> Mainstem <input checked="" type="radio"/> Bear Creek Drainage <input type="radio"/> Tributary <input type="radio"/> Turkey Creek Drainage <input type="radio"/> Wetland or fen </td> <td style="width: 50%; vertical-align: top;"> Stream Type <input type="radio"/> Coldwater <input type="radio"/> Warm-water Watershed Area 236 sq-miles </td> </tr> </table>			Stream Subsystem <input checked="" type="radio"/> Perennial <input type="radio"/> Intermittent Stream Origin <input type="radio"/> Mainstem <input checked="" type="radio"/> Bear Creek Drainage <input type="radio"/> Tributary <input type="radio"/> Turkey Creek Drainage <input type="radio"/> Wetland or fen	Stream Type <input type="radio"/> Coldwater <input type="radio"/> Warm-water Watershed Area 236 sq-miles	
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BEAR CREEK WATERSHED ASSOCIATION
PHYSICAL STREAM INDICES FIELD SHEET BEAR CREEK WATERSHED

LOCAL WATERSHED FEATURES	Predominant Surrounding Landuse <input type="radio"/> Forest <input type="radio"/> Commercial <input type="radio"/> Meadow/Pasture <input type="radio"/> Open Space <input type="radio"/> Large Lot Mix <input type="radio"/> Other (list) <input checked="" type="radio"/> Residential/Urban	Local Watershed NPS Pollution in Tier 1 Buffer <input type="radio"/> No evidence <input type="radio"/> Some potential sources <input checked="" type="radio"/> Obvious sources (list) <i>Parking lot</i> Local Watershed Erosion <input type="radio"/> None <input checked="" type="radio"/> Moderate <input type="radio"/> Heavy (photo)
RIPARIAN VEGETATION (100-ft buffer)	Indicate the dominant type and record the dominant species present <input checked="" type="radio"/> Trees <input type="radio"/> Shrubs <input type="radio"/> Grasses <input type="radio"/> Herbaceous dominant vegetation type present <i>Trees South Bank / urban</i>	
INSTREAM FEATURES	Estimated Reach Length <i>100</i> ft Estimated Stream Width <i>30</i> ft Sampling Reach Area <i>50</i> ft ² Estimated Stream Depth <i>2.5</i> ft Surface Velocity (at mid-channel) <i>1.45 / .95</i> cfs Canopy Cover <i>open</i> <input type="radio"/> Partly open <input checked="" type="radio"/> Partly shaded <input type="radio"/> Shaded High Water Mark <i>+6</i> ft Proportion of Reach Represented by Stream Morphology Types <input type="radio"/> Riffle <i>25</i> % <input type="radio"/> Run <i>40</i> % <input type="radio"/> Pool <i>35</i> % Channelized <input checked="" type="radio"/> Yes <input type="radio"/> No	
VERY LARGE WOODY DEBRIS	LWD <i>10</i> ft ² Estimated Density of LWD <i>3</i> %/ft ² (LWD/ reach area)	
ROOTED OR FLOATING AQUATIC VEGETATION	Indicate the dominant type and record the dominant species present <input type="radio"/> Rooted emergent <input checked="" type="radio"/> Rooted submergent <input type="radio"/> Free floating Dominant species present or photo <i>Green / Blue green /</i> Portion of the reach with aquatic vegetation (excluding Periphyton) <i>2</i> %	
WATER QUALITY	Temperature <i>12.5</i> °C Specific Conductance <i>089</i> us/m Dissolved Oxygen <i>9.28</i> mg/l pH <i>7.64</i> su WQ Instrument Used <input checked="" type="checkbox"/> YSI Multiprobe Water Odors <input type="radio"/> Normal/None <input type="radio"/> Sewage <input checked="" type="radio"/> Petroleum <input type="radio"/> Chemical <i>decayed organics</i> <input type="radio"/> Fishy <input type="radio"/> Other Water Surface Oils (Visual) <input type="radio"/> Slick <input type="radio"/> Sheen <input type="radio"/> Globbs <input type="radio"/> Flecks <input type="radio"/> None <input type="radio"/> Other Turbidity (visual) <input type="radio"/> Clear <input type="radio"/> Slightly Murky <input checked="" type="radio"/> Murky <input type="radio"/> Other	
SEDIMENT/ Periphyton Coverage	Pebble Count <input type="radio"/> Yes <input checked="" type="radio"/> No Estimate Embeddedness (%) <i>20%</i> Periphyton on Rocks <input type="radio"/> <5% <input checked="" type="radio"/> 5-15% <input type="radio"/> 15-25% <input type="radio"/> Profuse >25% Deposits on Substrate <input type="radio"/> Sludge <input type="radio"/> Organic <input type="radio"/> Trash <input type="radio"/> Silt/clay <input type="radio"/> Odors (list) Looking at stones which are nondeeply embedded, are the undersides black in color? <input checked="" type="radio"/> Yes <input type="radio"/> No <i>many in riffle</i>	

INORGANIC SUBSTRATE COMPONENTS (If No Pebble Count, Then Rough Estimate)			SMALLER ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)		
Substrate Type	Diameter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock		<i>3%</i>	Detritus	sticks, wood, coarse plant materials (CPOM)	<i>2%</i>
Boulder	> 256 mm (10")	<i>15%</i>			
Cobble	64-256 mm (2.5"-10")	<i>25%</i>	Muck-Mud	black, very fine organic (FPOM)	<i>3%</i> edges <i>decayed all rocks</i>
Gravel	2-64 mm (0.1"-2.5")	<i>35</i>			
Sand	0.06-2mm (gritty)	<i>15</i>	Other	Define:	<i>decayed all</i>
Silt/Clay	0.004-0.06 mm	<i>5%</i>			<i>decayed all</i>
	Total	<i>100</i>			<i>decayed all</i>

asphalt, concrete, steel and concrete pipe, plywood, lumber

BEAR CREEK WATERSHED ASSOCIATION
PHYSICAL STREAM INDICES FIELD SHEET BEAR CREEK WATERSHED

STREAM NAME: <u>Little Bear</u>		Bear Creek Watershed, Colorado																			
BCWA SITE # <u>5</u>		Colorado Stream Segment Classification:																			
LAT _____ LONG _____		South Platte River Basin																			
Web Site: www.bearcreekwatershed.org		Bear Creek Watershed Association																			
INVESTIGATORS:																					
COMPLETED BY: Bear Creek Watershed Association Board		DATE TIME <u>9-24-15</u> <u>11:30</u> AM PM	Baseline Habitat Survey for BCWA Sampling Locations; Reference Conditions																		
WEATHER CONDITIONS	<table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Now</td> <td style="width: 30%;">Past 24 hours</td> <td style="width: 40%;">Has there been a heavy rain in the last 7 days?</td> </tr> <tr> <td><input type="radio"/> storm (heavy rain)</td> <td><input type="radio"/></td> <td><input type="radio"/> Yes <input checked="" type="radio"/> No</td> </tr> <tr> <td><input type="radio"/> rain (steady rain)</td> <td><input type="radio"/></td> <td>Air Temperature <u>70</u>°C</td> </tr> <tr> <td><input type="radio"/> showers (intermittent)</td> <td><input type="radio"/></td> <td></td> </tr> <tr> <td><input type="radio"/> % cloud cover</td> <td><input type="radio"/> %</td> <td>Other _____</td> </tr> <tr> <td><input checked="" type="radio"/> clear/sunny</td> <td><input checked="" type="radio"/></td> <td></td> </tr> </table>			Now	Past 24 hours	Has there been a heavy rain in the last 7 days?	<input type="radio"/> storm (heavy rain)	<input type="radio"/>	<input type="radio"/> Yes <input checked="" type="radio"/> No	<input type="radio"/> rain (steady rain)	<input type="radio"/>	Air Temperature <u>70</u> °C	<input type="radio"/> showers (intermittent)	<input type="radio"/>		<input type="radio"/> % cloud cover	<input type="radio"/> %	Other _____	<input checked="" type="radio"/> clear/sunny	<input checked="" type="radio"/>	
Now	Past 24 hours	Has there been a heavy rain in the last 7 days?																			
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SITE LOCATION/MAP	Draw a map of the site and indicate the areas sampled (attach a photograph) <div style="text-align: center; margin-top: 20px;"> </div>																				
STREAM CHARACTERIZATION	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"> Stream Subsystem <input type="radio"/> Perennial <input type="radio"/> Intermittent Stream Origin <input type="radio"/> Mainstem <input checked="" type="radio"/> Bear Creek Drainage <input type="radio"/> Tributary <input checked="" type="radio"/> Turkey Creek Drainage <input type="radio"/> Wetland or fen </td> <td style="width: 50%;"> Stream Type <input type="radio"/> Coldwater <input type="radio"/> Warm-water Watershed Area 236 sq-miles </td> </tr> </table>			Stream Subsystem <input type="radio"/> Perennial <input type="radio"/> Intermittent Stream Origin <input type="radio"/> Mainstem <input checked="" type="radio"/> Bear Creek Drainage <input type="radio"/> Tributary <input checked="" type="radio"/> Turkey Creek Drainage <input type="radio"/> Wetland or fen	Stream Type <input type="radio"/> Coldwater <input type="radio"/> Warm-water Watershed Area 236 sq-miles																
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BEAR CREEK WATERSHED ASSOCIATION
PHYSICAL STREAM INDICES FIELD SHEET BEAR CREEK WATERSHED

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RIPARIAN VEGETATION (100-ft buffer)	Indicate the dominant type and record the dominant species present <input type="radio"/> Trees <input type="radio"/> Shrubs <input checked="" type="radio"/> Grasses <input type="radio"/> Herbaceous dominant vegetation type present <u>meadow grasses above</u>	
INSTREAM FEATURES	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> Estimated Reach Length <u>100</u> ft Estimated Stream Width <u>35</u> ft Sampling Reach Area <u>50</u> ft² Estimated Stream Depth <u>4</u> ft Surface Velocity (at mid-channel) <u>.29/.96</u> cfs </div> <div style="width: 45%;"> Canopy Cover <input checked="" type="radio"/> Partly open <input type="radio"/> Partly shaded <input type="radio"/> Shaded High Water Mark <u>42</u> ft Proportion of Reach Represented by Stream Morphology Types <input type="radio"/> Riffle <u>30</u> % <input type="radio"/> Run <u>40</u> % <input type="radio"/> Pool <u>30</u> % Channelized <input type="radio"/> Yes <input checked="" type="radio"/> No </div> </div>	
VERY LARGE WOODY DEBRIS	LWD <u>2</u> ft ² Estimated Density of LWD <u>.2</u> %/ft ² (LWD/ reach area)	
ROOTED OR FLOATING AQUATIC VEGETATION	Indicate the dominant type and record the dominant species present <input type="radio"/> Rooted emergent <input checked="" type="radio"/> Rooted submergent <input type="radio"/> Free floating Dominant species present or photo <u>Green</u> Portion of the reach with aquatic vegetation(excluding Periphyton) <u>1</u> %	
WATER QUALITY	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> Temperature <u>6.8</u> °C Specific Conductance <u>267</u> us/m Dissolved Oxygen <u>12.25</u> mg/l pH <u>7.68</u> su WQ Instrument Used <input checked="" type="checkbox"/> YSI Multiprobe </div> <div style="width: 45%;"> Water Odors <input checked="" type="radio"/> Normal/None <input type="radio"/> Sewage <input type="radio"/> Petroleum <input type="radio"/> Chemical <input type="radio"/> Fishy <input type="radio"/> Other Water Surface Oils (Visual) <input checked="" type="radio"/> Slick <input type="radio"/> Sheen <input type="radio"/> Globbs <input type="radio"/> Flecks <input type="radio"/> None <input type="radio"/> Other Turbidity (visual) <input checked="" type="radio"/> Clear <input type="radio"/> Slightly Murky <input type="radio"/> Murky <input type="radio"/> Other </div> </div>	
SEDIMENT/ Periphyton Coverage	Pebble Count <input type="radio"/> Yes <input checked="" type="radio"/> No Estimate Embeddedness (%) <u>40%</u> Periphyton on Rocks <input checked="" type="radio"/> <5% <input type="radio"/> 5-15% <input type="radio"/> 15-25% <input type="radio"/> Profuse >25% Deposits on Substrate <input type="radio"/> Sludge <input type="radio"/> Organic <input type="radio"/> Trash <input checked="" type="radio"/> Silt/clay <input type="radio"/> Odors (list) Looking at stones which are not deeply embedded, are the undersides black in color? <input type="radio"/> Yes <input checked="" type="radio"/> No	

INORGANIC SUBSTRATE COMPONENTS (If No Pebble Count, Then Rough Estimate)			SMALLER ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)		
Substrate Type	Diameter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock		0	Detritus	sticks, wood, coarse plant materials (CPOM)	1%
Boulder	> 256 mm (10")	2%			
Cobble	64-256 mm (2.5"-10")	60	Muck-Mud	black, very fine organic (FPOM)	1%
Gravel	2-64 mm (0.1"-2.5")	25			
Sand	0.06-2mm (gritty)	11	Other	Define:	
Silt/Clay	0.004-0.06 mm	2			
	Total	100			

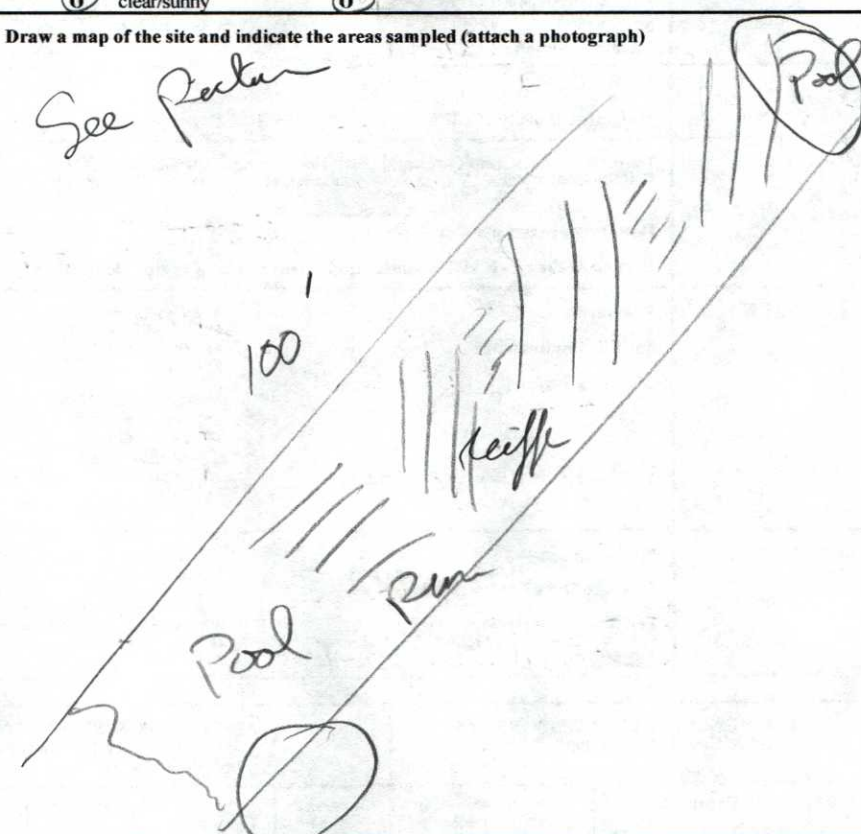
STREAM NAME: <u>Golden Tullis</u>		Bear Creek Watershed, Colorado	
BCWA SITE # <u>2A</u>		Colorado Stream Segment Classification:	
LAT _____ LONG _____		South Platte River Basin	
Web Site: <u>www.bearcreekwatershed.org</u>		Bear Creek Watershed Association	
INVESTIGATORS: <u>Tom Russ</u>			
COMPLETED BY: Bear Creek Watershed Association Board		DATE TIME <u>9-21-15</u> <u>10:30</u> AM PM	Baseline Habitat Survey for BCWA Sampling Locations; Reference Conditions
WEATHER CONDITIONS	Now	Past 24 hours	Has there been a heavy rain in the last 7 days? <input type="radio"/> Yes <input checked="" type="radio"/> No
	<input type="radio"/> storm (heavy rain) <input type="radio"/> rain (steady rain) <input type="radio"/> showers (intermittent) <input type="radio"/> % cloud cover <input checked="" type="radio"/> clear/sunny	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> % <input checked="" type="radio"/>	Air Temperature <u>70</u> °C Other _____
SITE LOCATION/MAP	Draw a map of the site and indicate the areas sampled (attach a photograph)		
STREAM CHARACTERIZATION	Stream Subsystem <input checked="" type="radio"/> Perennial <input type="radio"/> Intermittent		Stream Type <input checked="" type="radio"/> Coldwater <input type="radio"/> Warm-water
	Stream Origin <input type="radio"/> Mainstem <input type="radio"/> Tributary <input type="radio"/> Wetland or fen		Watershed Area 236 sq-miles <input checked="" type="radio"/> Bear Creek Drainage <input type="radio"/> Turkey Creek Drainage

BEAR CREEK WATERSHED ASSOCIATION
PHYSICAL STREAM INDICES FIELD SHEET BEAR CREEK WATERSHED

LOCAL WATERSHED FEATURES <div style="font-size: 1.5em; margin-top: 10px;">58</div>	Predominant Surrounding Landuse <input checked="" type="checkbox"/> Forest <input type="checkbox"/> Commercial <input type="checkbox"/> Meadow/Pasture <input type="checkbox"/> Open Space <input type="checkbox"/> Large Lot Mix <input type="checkbox"/> Other (list) <input type="checkbox"/> Residential/Urban	Local Watershed NPS Pollution in Tier 1 Buffer <input checked="" type="checkbox"/> No evidence <input type="checkbox"/> Some potential sources <input type="checkbox"/> Obvious sources (list) Local Watershed Erosion <input checked="" type="checkbox"/> None <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy (photo)		
RIPARIAN VEGETATION (100-ft buffer)	Indicate the dominant type and record the dominant species present <input checked="" type="checkbox"/> Trees <u>80%</u> <input type="checkbox"/> Shrubs <u>10%</u> <input type="checkbox"/> Grasses <u>5%</u> <input type="checkbox"/> Herbaceous <u>5%</u> dominant vegetation type present <u>Tree</u> <u>canopy forest</u>			
INSTREAM FEATURES <div style="font-size: 1.5em; margin-top: 10px;">cfs @ 15 cfs</div>	<table style="width: 100%;"> <tr> <td style="width: 50%;"> Estimated Reach Length <u>100</u> ft Estimated Stream Width <u>15'</u> ft Sampling Reach Area <u>50</u> ft² <div style="margin-left: 20px;"><u>width 9-15'</u></div> Estimated Stream Depth <u>1.0</u> ft Surface Velocity (at mid-channel) <u>1.52</u> (1.1) cfs </td> <td style="width: 50%;"> Canopy Cover <input type="checkbox"/> Partly open <input checked="" type="checkbox"/> Partly shaded <input type="checkbox"/> Shaded High Water Mark <u>+ 3</u> ft Proportion of Reach Represented by Stream Morphology Types <input type="checkbox"/> Riffle <u>70</u> % <input type="checkbox"/> Run <u>15</u> % <input type="checkbox"/> Pool <u>15</u> % Channelized <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </td> </tr> </table>		Estimated Reach Length <u>100</u> ft Estimated Stream Width <u>15'</u> ft Sampling Reach Area <u>50</u> ft ² <div style="margin-left: 20px;"><u>width 9-15'</u></div> Estimated Stream Depth <u>1.0</u> ft Surface Velocity (at mid-channel) <u>1.52</u> (1.1) cfs	Canopy Cover <input type="checkbox"/> Partly open <input checked="" type="checkbox"/> Partly shaded <input type="checkbox"/> Shaded High Water Mark <u>+ 3</u> ft Proportion of Reach Represented by Stream Morphology Types <input type="checkbox"/> Riffle <u>70</u> % <input type="checkbox"/> Run <u>15</u> % <input type="checkbox"/> Pool <u>15</u> % Channelized <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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VERY LARGE WOODY DEBRIS	LWD <u>4</u> ft ² Estimated Density of LWD <u>2</u> %/ft ² (LWD/ reach area)			
ROOTED OR FLOATING AQUATIC VEGETATION	Indicate the dominant type and record the dominant species present <input type="checkbox"/> Rooted emergent <input checked="" type="checkbox"/> Rooted submergent <input type="checkbox"/> Free floating Dominant species present or photo <u>Green filamentous few algae</u> Portion of the reach with aquatic vegetation(excluding Periphyton) <u>0.1</u> %			
WATER QUALITY	<table style="width: 100%;"> <tr> <td style="width: 50%;"> Temperature <u>26</u> °C Specific Conductance <u>1045</u> us/m Dissolved Oxygen <u>11.24</u> mg/l pH <u>8.29</u> su WQ Instrument Used <input checked="" type="checkbox"/> YSI Multiprobe </td> <td style="width: 50%;"> Water Odors <input checked="" type="checkbox"/> Normal/None <input type="checkbox"/> Sewage <input type="checkbox"/> Petroleum <input type="checkbox"/> Chemical <input type="checkbox"/> Fishy <input type="checkbox"/> Other Water Surface Oils (Visual) <input checked="" type="checkbox"/> Slick <input type="checkbox"/> Sheen <input type="checkbox"/> Globbs <input type="checkbox"/> Flecks <input checked="" type="checkbox"/> None <input type="checkbox"/> Other Turbidity (visual) <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Slightly Murky <input type="checkbox"/> Murky <input type="checkbox"/> Other </td> </tr> </table>		Temperature <u>26</u> °C Specific Conductance <u>1045</u> us/m Dissolved Oxygen <u>11.24</u> mg/l pH <u>8.29</u> su WQ Instrument Used <input checked="" type="checkbox"/> YSI Multiprobe	Water Odors <input checked="" type="checkbox"/> Normal/None <input type="checkbox"/> Sewage <input type="checkbox"/> Petroleum <input type="checkbox"/> Chemical <input type="checkbox"/> Fishy <input type="checkbox"/> Other Water Surface Oils (Visual) <input checked="" type="checkbox"/> Slick <input type="checkbox"/> Sheen <input type="checkbox"/> Globbs <input type="checkbox"/> Flecks <input checked="" type="checkbox"/> None <input type="checkbox"/> Other Turbidity (visual) <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Slightly Murky <input type="checkbox"/> Murky <input type="checkbox"/> Other
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SEDIMENT/ PERIPHYTON Coverage	<table style="width: 100%;"> <tr> <td style="width: 50%;"> Pebble Count <input type="checkbox"/> Yes <input type="checkbox"/> No Estimate Embeddedness (%) <u>60</u> Periphyton on Rocks <input checked="" type="checkbox"/> <5% <input type="checkbox"/> 5-15% <input type="checkbox"/> 15-25% <input type="checkbox"/> Profuse >25% <div style="margin-left: 20px;"><u>thickness 0-1</u></div> </td> <td style="width: 50%;"> Deposits on Substrate <input type="checkbox"/> Sludge <input type="checkbox"/> Organic <input type="checkbox"/> Trash <input checked="" type="checkbox"/> Silt/clay <input type="checkbox"/> Odors (list) Looking at stones which are not deeply embedded, are the undersides black in color? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </td> </tr> </table>		Pebble Count <input type="checkbox"/> Yes <input type="checkbox"/> No Estimate Embeddedness (%) <u>60</u> Periphyton on Rocks <input checked="" type="checkbox"/> <5% <input type="checkbox"/> 5-15% <input type="checkbox"/> 15-25% <input type="checkbox"/> Profuse >25% <div style="margin-left: 20px;"><u>thickness 0-1</u></div>	Deposits on Substrate <input type="checkbox"/> Sludge <input type="checkbox"/> Organic <input type="checkbox"/> Trash <input checked="" type="checkbox"/> Silt/clay <input type="checkbox"/> Odors (list) Looking at stones which are not deeply embedded, are the undersides black in color? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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INORGANIC SUBSTRATE COMPONENTS (If No Pebble Count, Then Rough Estimate)			SMALLER ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)		
Substrate Type	Diameter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock		2	Detritus	sticks, wood, coarse plant materials (CPOM)	2
Boulder	> 256 mm (10")	75			
Cobble	64-256 mm (2.5"-10")	40	Muck-Mud	black, very fine organic (FPOM)	0
Gravel	2-64 mm (0.1"-2.5")	25			
Sand	0.06-2mm (gritty)	13	Other	Define:	
Silt/Clay	0.004-0.06 mm	2			
	Total				

BEAR CREEK WATERSHED ASSOCIATION
PHYSICAL STREAM INDICES FIELD SHEET BEAR CREEK WATERSHED

STREAM NAME: <u>BC</u>		Bear Creek Watershed, Colorado			
BCWA SITE # <u>58</u>		Colorado Stream Segment Classification:			
LAT _____ LONG _____		South Platte River Basin			
Web Site: <u>www.bearcreekwatershed.org</u>		Bear Creek Watershed Association			
INVESTIGATORS: <u>Tony R...</u>					
COMPLETED BY: Bear Creek Watershed Association Board		DATE TIME <u>9-21-05</u> AM PM	Baseline Habitat Survey for BCWA Sampling Locations; Reference Conditions		
WEATHER CONDITIONS	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> Now <input type="radio"/> storm (heavy rain) <input type="radio"/> rain (steady rain) <input type="radio"/> showers (intermittent) <input checked="" type="radio"/> % cloud cover <input checked="" type="radio"/> clear/sunny </td> <td style="width: 50%; vertical-align: top;"> Past 24 hours <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> % <input checked="" type="radio"/> </td> </tr> </table>			Now <input type="radio"/> storm (heavy rain) <input type="radio"/> rain (steady rain) <input type="radio"/> showers (intermittent) <input checked="" type="radio"/> % cloud cover <input checked="" type="radio"/> clear/sunny	Past 24 hours <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> % <input checked="" type="radio"/>
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SITE LOCATION/MAP	<p>Draw a map of the site and indicate the areas sampled (attach a photograph)</p> <p style="font-size: 1.2em; margin-left: 20px;">See Packer</p> 				
STREAM CHARACTERIZATION	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> Stream Subsystem <input checked="" type="radio"/> Perennial <input type="radio"/> Intermittent Stream Origin <input type="radio"/> Mainstem <input checked="" type="radio"/> Bear Creek Drainage <input type="radio"/> Tributary <input type="radio"/> Turkey Creek Drainage <input type="radio"/> Wetland or fen </td> <td style="width: 50%; vertical-align: top;"> Stream Type <input checked="" type="radio"/> Coldwater <input type="radio"/> Warm-water Watershed Area 236 sq-miles </td> </tr> </table>			Stream Subsystem <input checked="" type="radio"/> Perennial <input type="radio"/> Intermittent Stream Origin <input type="radio"/> Mainstem <input checked="" type="radio"/> Bear Creek Drainage <input type="radio"/> Tributary <input type="radio"/> Turkey Creek Drainage <input type="radio"/> Wetland or fen	Stream Type <input checked="" type="radio"/> Coldwater <input type="radio"/> Warm-water Watershed Area 236 sq-miles
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