

# Final 1998 Section 303(d) List - WRIA 45

**Water Name** BRENDER CREEK

**Parameter** Fecal Coliform **Mediu** Water

**Place on 1998 List?**  Yes **Listed in 1996**  Yes **Action Needed** TMDL

**New Segment ID #** FB41VG **Old Segment ID #** WA-45-1100

**Stream Route #** 0 **Water Resource Inventory Area** 45

**Township** 23N **Waterbody Grid #**

**Range** 19E **Grid Latitude**

**Section** 05 **Grid Longitude**

**Basis for Consideration of Listing**  
Hindes, 1994. , 12 excursions beyond the criterion at station 3 between 1992 and 1993.

**Remarks**

**Water Name** BRENDER CREEK

**Parameter** pH **Mediu** Water

**Place on 1998 List?**  No **Listed in 1996**  No **Action Needed** None

**New Segment ID #** FB41VG **Old Segment ID #** WA-45-1100

**Stream Route #** 0 **Water Resource Inventory Area** 45

**Township** 23N **Waterbody Grid #**

**Range** 19E **Grid Latitude**

**Section** 05 **Grid Longitude**

**Basis for Consideration of Listing**  
Hindes, 1994. , 1 excursion beyond the criterion at station 3 on 4/12/93.

**Remarks**  
A single excursion beyond the criterion does not meet the Water Quality Program Policy for listing.

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**Water Name** BRENDER CREEK

**Parameter** Dissolved Oxygen **Mediu** Water

**Place on 1998 List?**  Yes **Listed in 1996**  Yes **Action Needed** TMDL

**New Segment ID #** FB41VG **Old Segment ID #** WA-45-1100

**Stream Route #** 0 **Water Resource Inventory Area** 45

**Township** 23N **Waterbody Grid #**

**Range** 19E **Grid Latitude**

**Section** 05 **Grid Longitude**

**Basis for Consideration of Listing** Hindes, 1994. , 2 excursions beyond the criterion at station 3 on 10/26/92 and 8/16/93.

**Remarks**

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**Water Name** CHIWAUKUM CREEK

**Parameter** Temperature **Mediu** Water

**Place on 1998 List?**  Yes **Listed in 1996**  Yes **Action Needed** TMDL

**New Segment ID #** HM20EV **Old Segment ID #** WA-45-1900

**Stream Route #** 56.298 **Water Resource Inventory Area** 45

**Township** 25N **Waterbody Grid #**

**Range** 17E **Grid Latitude**

**Section** 09 **Grid Longitude**

**Basis for Consideration of Listing** 10 excursions beyond the criterion sampled at the mouth by Wenatchee National Forest (submitted by Bella Patheal of EPA on 12/1/95) during 1994.

**Remarks**

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**Water Name**

**Parameter**  **Mediu**

**Place on 1998 List?**  **Listed in 1996**  **Action Needed**

**New Segment ID #**  **Old Segment ID #**

**Stream Route #**  **Water Resource Inventory Area**

**Township**  **Waterbody Grid #**

**Range**  **Grid Latitude**

**Section**  **Grid Longitude**

**Basis for Consideration of Listing**

**Remarks**

---

**Water Name**

**Parameter**  **Mediu**

**Place on 1998 List?**  **Listed in 1996**  **Action Needed**

**New Segment ID #**  **Old Segment ID #**

**Stream Route #**  **Water Resource Inventory Area**

**Township**  **Waterbody Grid #**

**Range**  **Grid Latitude**

**Section**  **Grid Longitude**

**Basis for Consideration of Listing**

**Remarks**

<b>Water Name</b>	CHUMSTICK CREEK		
<b>Parameter</b>	Instream Flow	<b>Mediu</b>	Habitat
<b>Place on 1998 List?</b>	<input type="checkbox"/> Yes	<b>Listed in 1996</b>	<input type="checkbox"/> Yes <b>Action Needed</b> Other Control
<b>New Segment ID #</b>	TX45RJ	<b>Old Segment ID #</b>	WA-45-1200
<b>Stream Route #</b>	14.005	<b>Water Resource Inventory Area</b>	45
<b>Township</b>	26N	<b>Waterbody Grid #</b>	
<b>Range</b>	18E	<b>Grid Latitude</b>	
<b>Section</b>	30	<b>Grid Longitude</b>	
<b>Basis for Consideration of Listing</b>	<p>Hindes, 1994. , stream was below 0.1 cfs at Site 12 (just above the confluence with Little Chumstick Creek) on 9-14-93. Although no IFIM study has been completed to determine appropriate levels of flow required, the low flow values measured is essentially zero flow.; Nehlson, et al. , Steelhead stock are at high risk of extinction.; SASSI, 1993., Spring Chinook and Steelhead stock are depressed.; Summer Steelhead have been listed as endangered in August 1997 under the Endangered Species Act.; Montgomery Water Group, et al. 1995. , low flow conditions caused by water withdrawals (irrigation is the largest) is one of the major factors impacting summer Chinook populations. The stream meets all the Water Quality Program Policy criteria for inadequate instream flow and has been added to the list. Information in the Watershed Ranking Project shows that recently measured flows in the Creek found many sections of the Creek to bedrock because of diversions. The Creek has been used by the depressed stocks of Chinook and steelhead and is of little value presently due to large irrigation diversions.</p>		
<b>Remarks</b>			

<b>Water Name</b>	CHUMSTICK CREEK		
<b>Parameter</b>	Dissolved Oxygen	<b>Mediu</b>	Water
<b>Place on 1998 List?</b>	<input type="checkbox"/> No	<b>Listed in 1996</b>	<input type="checkbox"/> Yes <b>Action Needed</b> None
<b>New Segment ID #</b>	FA38NK	<b>Old Segment ID #</b>	WA-45-1200
<b>Stream Route #</b>	0	<b>Water Resource Inventory Area</b>	45
<b>Township</b>	26N	<b>Waterbody Grid #</b>	
<b>Range</b>	18E	<b>Grid Latitude</b>	
<b>Section</b>	30	<b>Grid Longitude</b>	
<b>Basis for Consideration of Listing</b>	<p>Hindes, 1994. , 1 excursion beyond the criterion at station 12 on 8/17/93.</p>		
<b>Remarks</b>	<p>A single excursion beyond the criterion does not meet the Water Quality Program policy for listing.</p>		

<b>Water Name</b>	CHUMSTICK CREEK		
<b>Parameter</b>	Fecal Coliform	<b>Mediu</b>	Water
<b>Place on 1998 List?</b>	<input type="checkbox"/> No	<b>Listed in 1996</b>	<input type="checkbox"/> Yes <b>Action Needed</b> <input type="checkbox"/> None
<b>New Segment ID #</b>	FA38NK	<b>Old Segment ID #</b>	WA-45-1200
<b>Stream Route #</b>	0	<b>Water Resource Inventory Area</b>	45
<b>Township</b>	26N	<b>Waterbody Grid #</b>	
<b>Range</b>	18E	<b>Grid Latitude</b>	
<b>Section</b>	30	<b>Grid Longitude</b>	
<b>Basis for Consideration of Listing</b>	Hindes, 1994. , 1 excursion beyond the criterion at station 12 in 6/93.		
<b>Remarks</b>	A single excursion beyond the criterion does not meet the Water Quality Program policy for listing.		

<b>Water Name</b>	CHUMSTICK CREEK		
<b>Parameter</b>	Fecal Coliform	<b>Mediu</b>	Water
<b>Place on 1998 List?</b>	<input checked="" type="checkbox"/> Yes	<b>Listed in 1996</b>	<input checked="" type="checkbox"/> Yes <b>Action Needed</b> <input type="checkbox"/> TMDL
<b>New Segment ID #</b>	TX45RJ	<b>Old Segment ID #</b>	WA-45-1200
<b>Stream Route #</b>	0.318	<b>Water Resource Inventory Area</b>	45
<b>Township</b>	24N	<b>Waterbody Grid #</b>	
<b>Range</b>	17E	<b>Grid Latitude</b>	
<b>Section</b>	01	<b>Grid Longitude</b>	
<b>Basis for Consideration of Listing</b>	Hindes, 1994. , 4 excursions beyond the criterion at station 11between 1992 and 1993.		
<b>Remarks</b>			

<b>Water Name</b>	COLUMBIA RIVER		
<b>Parameter</b>	Total Dissolved Gas	<b>Mediu</b>	Water
<b>Place on 1998 List?</b>	<input type="checkbox"/> Yes	<b>Listed in 1996</b>	<input type="checkbox"/> Yes <b>Action Needed</b> TMDL
<b>New Segment ID #</b>	NN57SG	<b>Old Segment ID #</b>	WA-CR-1040
<b>Stream Route #</b>	751.697	<b>Water Resource Inventory Area</b>	45
<b>Township</b>	24N	<b>Waterbody Grid #</b>	
<b>Range</b>	20E	<b>Grid Latitude</b>	
<b>Section</b>	35	<b>Grid Longitude</b>	
<b>Basis for Consideration of Listing</b>	1 excursion beyond the criterion at the Chelan County PUD station RRH in 1993.; 25 excursions beyond the criterion at the Chelan County PUD station RRH in 1994.;		
<b>Remarks</b>			

<b>Water Name</b>	COLUMBIA RIVER		
<b>Parameter</b>	Total Dissolved Gas	<b>Mediu</b>	Water
<b>Place on 1998 List?</b>	<input type="checkbox"/> Yes	<b>Listed in 1996</b>	<input type="checkbox"/> Yes <b>Action Needed</b> TMDL
<b>New Segment ID #</b>	NN57SG	<b>Old Segment ID #</b>	WA-CR-1040
<b>Stream Route #</b>	751.697	<b>Water Resource Inventory Area</b>	45
<b>Township</b>	24N	<b>Waterbody Grid #</b>	
<b>Range</b>	20E	<b>Grid Latitude</b>	
<b>Section</b>	35	<b>Grid Longitude</b>	
<b>Basis for Consideration of Listing</b>	U.S. Army Corp of Engineers, 1991. , numerous excursions beyond the criterion at station 2307 (below Rocky Reach Dam)		
<b>Remarks</b>			

<b>Water Name</b>	COLUMBIA RIVER		
<b>Parameter</b>	Water Column Bioassay	<b>Mediu</b>	Water
<b>Place on 1998 List?</b>	<input type="checkbox"/> Yes	<b>Listed in 1996</b>	<input type="checkbox"/> Yes <b>Action Needed</b> Other Control
<b>New Segment ID #</b>	NN57SG	<b>Old Segment ID #</b>	WA-CR-1040
<b>Stream Route #</b>	739.666	<b>Water Resource Inventory Area</b>	45
<b>Township</b>	22N	<b>Waterbody Grid #</b>	
<b>Range</b>	20E	<b>Grid Latitude</b>	
<b>Section</b>	03	<b>Grid Longitude</b>	
<b>Basis for Consideration of Listing</b>	CH2M Hill, 1995. , Ceriodaphnia dubia reduction in reproduction at station sampled near Wenatchee in 7/95.		
<b>Remarks</b>			

<b>Water Name</b>	ICICLE CREEK		
<b>Parameter</b>	Temperature	<b>Mediu</b>	Water
<b>Place on 1998 List?</b>	<input type="checkbox"/> No	<b>Listed in 1996</b>	<input type="checkbox"/> Yes <b>Action Needed</b> None
<b>New Segment ID #</b>	KN36FW	<b>Old Segment ID #</b>	WA-45-1017
<b>Stream Route #</b>	3.827	<b>Water Resource Inventory Area</b>	45
<b>Township</b>	24N	<b>Waterbody Grid #</b>	
<b>Range</b>	17E	<b>Grid Latitude</b>	
<b>Section</b>	24	<b>Grid Longitude</b>	
<b>Basis for Consideration of Listing</b>	1 excursion beyond the criterion at Ecology ambient monitoring station 45B070 on 8/9/93.		
<b>Remarks</b>	A single excursion beyond the criterion does not meet the Water Quality Program policy for listing.		

<b>Water Name</b>	ICICLE CREEK		
<b>Parameter</b>	pH	<b>Mediu</b>	Water
<b>Place on 1998 List?</b>	<input type="checkbox"/> Yes	<b>Listed in 1996</b>	<input type="checkbox"/> Yes <b>Action Needed</b> <input type="checkbox"/> None
<b>New Segment ID #</b>	KN36FW	<b>Old Segment ID #</b>	WA-45-1017
<b>Stream Route #</b>	14.472	<b>Water Resource Inventory Area</b>	45
<b>Township</b>	24N	<b>Waterbody Grid #</b>	
<b>Range</b>	16E	<b>Grid Latitude</b>	
<b>Section</b>	24	<b>Grid Longitude</b>	
<b>Basis for Consideration of Listing</b>	Hindes, 1994. , 1 excursion beyond the criterion at station 10 on 1/12/93.		
<b>Remarks</b>	A single excursion beyond the criterion does not meet the Water Quality Program policy for listing.		

<b>Water Name</b>	ICICLE CREEK		
<b>Parameter</b>	Dissolved Oxygen	<b>Mediu</b>	Water
<b>Place on 1998 List?</b>	<input type="checkbox"/> Yes	<b>Listed in 1996</b>	<input type="checkbox"/> Yes <b>Action Needed</b> <input type="checkbox"/> TMDL
<b>New Segment ID #</b>	KN36FW	<b>Old Segment ID #</b>	WA-45-1017
<b>Stream Route #</b>	14.472	<b>Water Resource Inventory Area</b>	45
<b>Township</b>	24N	<b>Waterbody Grid #</b>	
<b>Range</b>	16E	<b>Grid Latitude</b>	
<b>Section</b>	24	<b>Grid Longitude</b>	
<b>Basis for Consideration of Listing</b>	Hindes, 1994. , 7 excursions beyond the criterion at station 10 between 1992 and 1993.		
<b>Remarks</b>			

<b>Water Name</b>	ICICLE CREEK		
<b>Parameter</b>	Instream Flow	<b>Mediu</b>	Habitat
<b>Place on 1998 List?</b>	<input type="checkbox"/> Yes	<b>Listed in 1996</b>	<input type="checkbox"/> Yes <b>Action Needed</b> Other Control
<b>New Segment ID #</b>	KN36FW	<b>Old Segment ID #</b>	WA-45-1015
<b>Stream Route #</b>	0	<b>Water Resource Inventory Area</b>	45
<b>Township</b>	24N	<b>Waterbody Grid #</b>	
<b>Range</b>	17E	<b>Grid Latitude</b>	
<b>Section</b>	13	<b>Grid Longitude</b>	
<b>Basis for Consideration of Listing</b>	<p>USGS measured flows upstream (RM 3.9) of the WAC control point (RM1.5) are below minimum regulations in 1991.;Montgomery Water Group, et al. 1995. , shows 90% exceedance hydrograph does not meet WAC flows during March and August through December.; Hindes, 1994. , flows were very low in the late summer and fall due to upstream consumptive uses of water. Irrigation diversions, the town of Leavenworth and the Leavenworth Fish Hatchery cause the downstream reaches to go dry in some years.; Nehlson, et al. , Steelhead stock are at high risk of extinction.; SASSI, 1993., Spring Chinook and Steelhead stock are depressed.; Summer Steelhead have been listed as endangered in August 1997 under the Endangered Species Act.; Montgomery Water Group, et al. 1995. , low flow conditions caused by water withdrawals (irrigation is the largest) is one of the major factors impacting summer Chinook populations. The segment meets all the Water Quality Program Policy criteria for inadequate instream flow and has been added to the list. Information in the Watershed Ranking Project shows that recently measured flows did not meet the instream flows set by WAC almost45% of the time. The Watershed Assessment found that the WAC instream flow levels are not met for 66 days on average from August to October. The Creek is used by the depressed stocks of Chinook and steelhead. Existing (pre-WAC rules) water right used up the Creek.</p>		
<b>Remarks</b>			

<b>Water Name</b>	ICICLE CREEK		
<b>Parameter</b>	Temperature	<b>Mediu</b>	Water
<b>Place on 1998 List?</b>	<input type="checkbox"/> Yes	<b>Listed in 1996</b>	<input type="checkbox"/> Yes <b>Action Needed</b> TMDL
<b>New Segment ID #</b>	KN36FW	<b>Old Segment ID #</b>	WA-45-1017
<b>Stream Route #</b>	12.147	<b>Water Resource Inventory Area</b>	45
<b>Township</b>	24N	<b>Waterbody Grid #</b>	
<b>Range</b>	17E	<b>Grid Latitude</b>	
<b>Section</b>	30	<b>Grid Longitude</b>	
<b>Basis for Consideration of Listing</b>	<p>Sullivan et al. 1990 , 15 excursions beyond the criteria in 1988.</p>		
<b>Remarks</b>			

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**Water Name**

**Parameter**  **Mediu**

**Place on 1998 List?**  **Listed in 1996**  **Action Needed**

**New Segment ID #**  **Old Segment ID #**

**Stream Route #**  **Water Resource Inventory Area**

**Township**  **Waterbody Grid #**

**Range**  **Grid Latitude**

**Section**  **Grid Longitude**

**Basis for Consideration of Listing**

**Remarks**

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**Water Name**

**Parameter**  **Mediu**

**Place on 1998 List?**  **Listed in 1996**  **Action Needed**

**New Segment ID #**  **Old Segment ID #**

**Stream Route #**  **Water Resource Inventory Area**

**Township**  **Waterbody Grid #**

**Range**  **Grid Latitude**

**Section**  **Grid Longitude**

**Basis for Consideration of Listing**

**Remarks**

<b>Water Name</b>	LITTLE WENATCHEE RIVER		
<b>Parameter</b>	Temperature	<b>Mediu</b>	Water
<b>Place on 1998 List?</b>	<input type="checkbox"/> Yes	<b>Listed in 1996</b>	<input type="checkbox"/> Yes <b>Action Needed</b> TMDL
<b>New Segment ID #</b>	DS66LF	<b>Old Segment ID #</b>	WA-45-4000
<b>Stream Route #</b>	1.842	<b>Water Resource Inventory Area</b>	45
<b>Township</b>	27N	<b>Waterbody Grid #</b>	
<b>Range</b>	16E	<b>Grid Latitude</b>	
<b>Section</b>	15	<b>Grid Longitude</b>	
<b>Basis for Consideration of Listing</b>	Numerous excursions beyond the criterion sampled at the mouth by Wenatchee National Forest (submitted by Bella Patheal of EPA on 12/1/95) during 1994.		
<b>Remarks</b>			

<b>Water Name</b>	MISSION CREEK		
<b>Parameter</b>	Instream Flow	<b>Mediu</b>	Habitat
<b>Place on 1998 List?</b>	<input type="checkbox"/> Yes	<b>Listed in 1996</b>	<input type="checkbox"/> Yes <b>Action Needed</b> Other Control
<b>New Segment ID #</b>	DQ04NW	<b>Old Segment ID #</b>	WA-45-1011
<b>Stream Route #</b>	2.558	<b>Water Resource Inventory Area</b>	45
<b>Township</b>	23N	<b>Waterbody Grid #</b>	
<b>Range</b>	19E	<b>Grid Latitude</b>	
<b>Section</b>	08	<b>Grid Longitude</b>	
<b>Basis for Consideration of Listing</b>	Hindes, 1994. , WAC regulation flows (RM 1.5) were not met 17 out of 20 times sampled . Flows in the late summer and fall were often more dependant on irrigation return flows than on flows left in the stream channel.; Nehlson, et al. , Steelhead stock are at high risk of extinction.; SASSI, 1993., Spring Chinook and Steelhead stock are depressed.; Summer Steelhead have been listed as endangered in August 1997 under the Endangered Species Act.; Montgomery Water Group, et al. 1995. , low flow conditions caused by water withdrawals (irrigation is the largest) is one of the major factors impacting summer Chinook populations. The segment meets all the Water Quality Program Policy criteria for inadequate instream flow and has been added to the list. Information in the Watershed Ranking Project shows that recently measured flows did not meet the instream flows set by WAC almost 85% of the time. It presently has only fish populations of stressed trout and is to low to be used by the depressed stocks of Chinook and steelhead. Existing (pre-WAC rules) water right used up the Creek. The low flows are human caused by the diversions drying up the Creek (Watershed Assessment and Watershed Ranking Report).		
<b>Remarks</b>			

<b>Water Name</b>	MISSION CREEK		
<b>Parameter</b>	Dissolved Oxygen	<b>Mediu</b>	Water
<b>Place on 1998 List?</b>	<input type="checkbox"/> No	<b>Listed in 1996</b>	<input type="checkbox"/> No <b>Action Needed</b> <input type="checkbox"/> None
<b>New Segment ID #</b>	FB41VG	<b>Old Segment ID #</b>	WA-45-1011
<b>Stream Route #</b>	0	<b>Water Resource Inventory Area</b>	45
<b>Township</b>	23N	<b>Waterbody Grid #</b>	
<b>Range</b>	19E	<b>Grid Latitude</b>	
<b>Section</b>	05	<b>Grid Longitude</b>	
<b>Basis for Consideration of Listing</b>	Hindes, 1994. , 1 excursion beyond the criterion at station 2 on 8/16/93.		
<b>Remarks</b>	A single excursion beyond the criterion does not meet the Water Quality Program Policy for listing.		

<b>Water Name</b>	MISSION CREEK		
<b>Parameter</b>	Temperature	<b>Mediu</b>	Water
<b>Place on 1998 List?</b>	<input checked="" type="checkbox"/> Yes	<b>Listed in 1996</b>	<input checked="" type="checkbox"/> Yes <b>Action Needed</b> <input type="checkbox"/> TMDL
<b>New Segment ID #</b>	DQ04NW	<b>Old Segment ID #</b>	WA-45-1012
<b>Stream Route #</b>	5.629	<b>Water Resource Inventory Area</b>	45
<b>Township</b>	23N	<b>Waterbody Grid #</b>	
<b>Range</b>	19E	<b>Grid Latitude</b>	
<b>Section</b>	20	<b>Grid Longitude</b>	
<b>Basis for Consideration of Listing</b>	Numerous excursions beyond the criterion sampled at the NFS boundary by Wenatchee National Forest (submitted by Bella Patheal of EPA on 12/1/95) during 1994.		
<b>Remarks</b>			

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**Water Name** MISSION CREEK

**Parameter** Fecal Coliform **Mediu** Water

**Place on 1998 List?**  Yes **Listed in 1996**  Yes **Action Needed** TMDL

**New Segment ID #** FB41VG **Old Segment ID #** WA-45-1011

**Stream Route #** 0 **Water Resource Inventory Area** 45

**Township** 23N **Waterbody Grid #**

**Range** 19E **Grid Latitude**

**Section** 05 **Grid Longitude**

**Basis for Consideration of Listing**  
Hindes, 1994. , 6 excursions beyond the criterion at station 2 between 1992 and1993.

**Remarks**

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**Water Name** MISSION CREEK

**Parameter** 4,4'-DDT **Mediu** Tissue

**Place on 1998 List?**  Yes **Listed in 1996**  Yes **Action Needed** TMDL

**New Segment ID #** DQ04NW **Old Segment ID #** WA-45-1011

**Stream Route #** 0.45 **Water Resource Inventory Area** 45

**Township** 23N **Waterbody Grid #**

**Range** 19E **Grid Latitude**

**Section** 04 **Grid Longitude**

**Basis for Consideration of Listing**  
Davis et al, 1995 , excursions beyond the criterion in edible rainbow trout tissue near the mouth in 1993.

**Remarks**

<b>Water Name</b>	MISSION CREEK		
<b>Parameter</b>	DDT	<b>Mediu</b>	Water
<b>Place on 1998 List?</b>	<input type="checkbox"/> Yes	<b>Listed in 1996</b>	<input type="checkbox"/> Yes <b>Action Needed</b> TMDL
<b>New Segment ID #</b>	DQ04NW	<b>Old Segment ID #</b>	WA-45-1011
<b>Stream Route #</b>	1.839	<b>Water Resource Inventory Area</b>	45
<b>Township</b>	23N	<b>Waterbody Grid #</b>	
<b>Range</b>	19E	<b>Grid Latitude</b>	
<b>Section</b>	09	<b>Grid Longitude</b>	
<b>Basis for Consideration of Listing</b>	Davis , 1996, 2 excursions beyond the chronic criterion at Mission Creek Road in 4/93 and 6/93.		
<b>Remarks</b>			

<b>Water Name</b>	MISSION CREEK		
<b>Parameter</b>	4,4'-DDE	<b>Mediu</b>	Tissue
<b>Place on 1998 List?</b>	<input type="checkbox"/> Yes	<b>Listed in 1996</b>	<input type="checkbox"/> Yes <b>Action Needed</b> TMDL
<b>New Segment ID #</b>	DQ04NW	<b>Old Segment ID #</b>	WA-45-1011
<b>Stream Route #</b>	0.45	<b>Water Resource Inventory Area</b>	45
<b>Township</b>	23N	<b>Waterbody Grid #</b>	
<b>Range</b>	19E	<b>Grid Latitude</b>	
<b>Section</b>	04	<b>Grid Longitude</b>	
<b>Basis for Consideration of Listing</b>	Davis et al, 1995. , excursions beyond the criterion in edible rainbow trout tissue near the mouth in 1993.		
<b>Remarks</b>			

<b>Water Name</b>	MISSION CREEK		
<b>Parameter</b>	Guthion(azinphos-methyl)	<b>Mediu</b>	Water
<b>Place on 1998 List?</b>	<input type="checkbox"/> Yes	<b>Listed in 1996</b>	<input type="checkbox"/> No <b>Action Needed</b> TMDL
<b>New Segment ID #</b>	DQ04NW	<b>Old Segment ID #</b>	WA-45-1011
<b>Stream Route #</b>	0.45	<b>Water Resource Inventory Area</b>	45
<b>Township</b>	23N	<b>Waterbody Grid #</b>	
<b>Range</b>	19E	<b>Grid Latitude</b>	
<b>Section</b>	04	<b>Grid Longitude</b>	
<b>Basis for Consideration of Listing</b>	Davis, 1993. , excursions beyond the National Toxic Rule (40 CFR Part 131) criterion at Mission Creek Road.		
<b>Remarks</b>	The cited reference (Davis, 1993) and the proposed list erroneously identified the wrong Mission Creek old segment as WA-49-2100. The actual Mission Creek sampled has the old segment number WA-45-1011.		

<b>Water Name</b>	MISSION CREEK		
<b>Parameter</b>	Fecal Coliform	<b>Mediu</b>	Water
<b>Place on 1998 List?</b>	<input type="checkbox"/> Yes	<b>Listed in 1996</b>	<input type="checkbox"/> Yes <b>Action Needed</b> TMDL
<b>New Segment ID #</b>	DQ04NW	<b>Old Segment ID #</b>	WA-45-1011
<b>Stream Route #</b>	5.629	<b>Water Resource Inventory Area</b>	45
<b>Township</b>	23R	<b>Waterbody Grid #</b>	
<b>Range</b>	19E	<b>Grid Latitude</b>	
<b>Section</b>	20	<b>Grid Longitude</b>	
<b>Basis for Consideration of Listing</b>	Hindes, 1994. , 3 excursions beyond the criterion at station 4 between 1992 and 1993.		
<b>Remarks</b>			

<b>Water Name</b>	NASON CREEK		
<b>Parameter</b>	Temperature	<b>Mediu</b>	Water
<b>Place on 1998 List?</b>	<input type="checkbox"/> Yes	<b>Listed in 1996</b>	<input type="checkbox"/> Yes <b>Action Needed</b> TMDL
<b>New Segment ID #</b>	FZ91ME	<b>Old Segment ID #</b>	WA-45-3000
<b>Stream Route #</b>	0	<b>Water Resource Inventory Area</b>	45
<b>Township</b>	26N	<b>Waterbody Grid #</b>	
<b>Range</b>	17E	<b>Grid Latitude</b>	
<b>Section</b>	09	<b>Grid Longitude</b>	
<b>Basis for Consideration of Listing</b>	Yakama Indian Nation data (submitted by Carroll Palmer on 2/28/96) show 34 excursions beyond the criterion in 1994.		
<b>Remarks</b>			

<b>Water Name</b>	NASON CREEK		
<b>Parameter</b>	Temperature	<b>Mediu</b>	Water
<b>Place on 1998 List?</b>	<input type="checkbox"/> Yes	<b>Listed in 1996</b>	<input type="checkbox"/> Yes <b>Action Needed</b> TMDL
<b>New Segment ID #</b>	UO87HL	<b>Old Segment ID #</b>	WA-45-3000
<b>Stream Route #</b>	0.288	<b>Water Resource Inventory Area</b>	45
<b>Township</b>	27N	<b>Waterbody Grid #</b>	
<b>Range</b>	17E	<b>Grid Latitude</b>	
<b>Section</b>	27	<b>Grid Longitude</b>	
<b>Basis for Consideration of Listing</b>	Numerous excursions beyond the criterion sampled at the mouth by Wenatchee National Forest (submitted by Bella Patheal of EPA on 12/1/95) during 1994.		
<b>Remarks</b>			

<b>Water Name</b>	PESHASTIN CREEK		
<b>Parameter</b>	Temperature	<b>Mediu</b>	Water
<b>Place on 1998 List?</b>	<input type="checkbox"/> Yes	<b>Listed in 1996</b>	<input type="checkbox"/> Yes <b>Action Needed</b> TMDL
<b>New Segment ID #</b>	OM13EX	<b>Old Segment ID #</b>	WA-45-1014
<b>Stream Route #</b>	0.638	<b>Water Resource Inventory Area</b>	45
<b>Township</b>	24N	<b>Waterbody Grid #</b>	
<b>Range</b>	18E	<b>Grid Latitude</b>	
<b>Section</b>	21	<b>Grid Longitude</b>	
<b>Basis for Consideration of Listing</b>	Numerous excursions beyond the criterion sampled at the NFS boundary by Wenatchee National Forest (submitted by Bella Patheal of EPA on 12/1/95) during 1994.		
<b>Remarks</b>			

<b>Water Name</b>	PESHASTIN CREEK		
<b>Parameter</b>	Instream Flow	<b>Mediu</b>	Habitat
<b>Place on 1998 List?</b>	<input type="checkbox"/> Yes	<b>Listed in 1996</b>	<input type="checkbox"/> Yes <b>Action Needed</b> Other Control
<b>New Segment ID #</b>	OM13EX	<b>Old Segment ID #</b>	WA-45-1013
<b>Stream Route #</b>	0.638	<b>Water Resource Inventory Area</b>	45
<b>Township</b>	24N	<b>Waterbody Grid #</b>	
<b>Range</b>	18E	<b>Grid Latitude</b>	
<b>Section</b>	21	<b>Grid Longitude</b>	
<b>Basis for Consideration of Listing</b>	Hindes, 1994. , flows were very low (0.3 cfs) at Site 5 (RM 1.0) in the late summer and fall were often dependant on irrigation return flows. The WAC rules close the Peshastin from June 15 to October 15 to further consumptive appropriation. Although no IFIM study has been completed to determine appropriate levels of flow required, the low flow values measured is essentially zero flow.; Nehlson, et al.1991, Steelhead stock are at high risk of extinction.; SASSI, 1993., Spring Chinook and Steelhead stock are depressed.; Summer Steelhead have been listed as endangered in August 1997 under the Endangered Species Act.; Montgomery Water Group, et al. 1995. , low flow conditions caused by water withdrawals (irrigation is the largest) is one of the major factors impacting summer Chinook populations. The segment meets all the Water Quality Program Policy criteria for inadequate instream flow and has been added to the list. Information in the Watershed Ranking Project shows that recently measured flows did not meet the instream flows set by WAC in September or October in 1992 and 1993. The Creek is used by as small number of the depressed stock of spring Chinook. Existing water right users such as Peshastin Irrigation District divert enough water that the Creek dries up in late summer and early fall.		
<b>Remarks</b>			

<b>Water Name</b>	PESHASTIN CREEK		
<b>Parameter</b>	Temperature	<b>Mediu</b>	Water
<b>Place on 1998 List?</b>	<input type="checkbox"/> Yes	<b>Listed in 1996</b>	<input type="checkbox"/> Yes <b>Action Needed</b> TMDL
<b>New Segment ID #</b>	OM13EX	<b>Old Segment ID #</b>	WA-45-1013
<b>Stream Route #</b>	4.357	<b>Water Resource Inventory Area</b>	45
<b>Township</b>	24N	<b>Waterbody Grid #</b>	
<b>Range</b>	18E	<b>Grid Latitude</b>	
<b>Section</b>	32	<b>Grid Longitude</b>	
<b>Basis for Consideration of Listing</b>	Yakama Indian Nation data (submitted by Carroll Palmer on 2/28/96)show 36 excursions beyond the criterion in 1994.		
<b>Remarks</b>			

<b>Water Name</b>	WENATCHEE RIVER		
<b>Parameter</b>	Instream Flow	<b>Mediu</b>	Habitat
<b>Place on 1998 List?</b>	<input type="checkbox"/> Yes	<b>Listed in 1996</b>	<input type="checkbox"/> Yes <b>Action Needed</b> Other Control
<b>New Segment ID #</b>	HM20EV	<b>Old Segment ID #</b>	WA-45-1010
<b>Stream Route #</b>	31.696	<b>Water Resource Inventory Area</b>	45
<b>Township</b>	24N	<b>Waterbody Grid #</b>	
<b>Range</b>	18E	<b>Grid Latitude</b>	
<b>Section</b>	17	<b>Grid Longitude</b>	
<b>Basis for Consideration of Listing</b>	USGS flows collected at Gage 124625 during water years 1992-1994show WAC flow are not met 87% of the days between 8/1 and 10/31.;USGS flows collected at Gage 124590 during water years 1992-1994 show WAC flow (RM 21.5) are not met 90% of the days between 8/1 and 10/31.; Hinds, 1994. , regulation flows were not met on any of the days measured in September -October 1992 and August-October 1993.;Washington Dept. of Fisheries, et al. 1990 , low flows during the late summer and early fall are a major limiting factor on the production of yearling Chinook and Steelhead.; Nehlson, et al. , Steelhead stock are at high risk of extinction.; SASSI, 1993., Spring Chinook and Steelhead stock are depressed.; Summer Steelhead have been listed as endangered in August 1997 under the Endangered Species Act.; Montgomery Water Group, et al. 1995. , low flow conditions caused by water withdrawals (irrigation is the largest) is one of the major factors impacting summer Chinook populations. Two segments of the Wenatchee River (WA-45-1010 and WA-45-1020)meets all the Water Quality Program Policy criteria for inadequate instream flow and has been added to the list. Information compiled shows the hydrology and that the WAC instream flows are not met 90% of the time from August to October with depressed spring Chinook and steelhead stocks of fish. Documentation of the water rights and surface and groundwater diversions from the River deplete flows below that set in WAC.		
<b>Remarks</b>			

<b>Water Name</b>	WENATCHEE RIVER		
<b>Parameter</b>	pH	<b>Mediu</b>	Water
<b>Place on 1998 List?</b>	<input type="checkbox"/> Yes	<b>Listed in 1996</b>	<input type="checkbox"/> Yes <b>Action Needed</b> TMDL
<b>New Segment ID #</b>	HM20EV	<b>Old Segment ID #</b>	WA-45-1010
<b>Stream Route #</b>	0.6	<b>Water Resource Inventory Area</b>	45
<b>Township</b>	23N	<b>Waterbody Grid #</b>	
<b>Range</b>	20E	<b>Grid Latitude</b>	
<b>Section</b>	28	<b>Grid Longitude</b>	
<b>Basis for Consideration of Listing</b>	7 excursions beyond the criterion out of 33 samples (21%) at Ecology ambient monitoring station 45A070 (RM 1.1) between 9/91 and 9/96;;		
<b>Remarks</b>			

<b>Water Name</b>	WENATCHEE RIVER		
<b>Parameter</b>	Temperature	<b>Mediu</b>	Water
<b>Place on 1998 List?</b>	<input type="checkbox"/> No	<b>Listed in 1996</b>	<input type="checkbox"/> Yes <b>Action Needed</b> None
<b>New Segment ID #</b>	HM20EV	<b>Old Segment ID #</b>	WA-45-1020
<b>Stream Route #</b>	56.298	<b>Water Resource Inventory Area</b>	45
<b>Township</b>	25N	<b>Waterbody Grid #</b>	
<b>Range</b>	17E	<b>Grid Latitude</b>	
<b>Section</b>	09	<b>Grid Longitude</b>	
<b>Basis for Consideration of Listing</b>	3 excursions beyond the criterion out of 34 samples (9%) at Ecology ambient monitoring station 45A110 (RM 35.6) between 9/91 and 9/96.		
<b>Remarks</b>	The information does not meet the Water Quality Program policy for listing this segment for this parameter.		

<b>Water Name</b>	WENATCHEE RIVER		
<b>Parameter</b>	pH	<b>Mediu</b>	Water
<b>Place on 1998 List?</b>	<input type="checkbox"/> No	<b>Listed in 1996</b>	<input type="checkbox"/> Yes <b>Action Needed</b> <input type="checkbox"/> None
<b>New Segment ID #</b>	HM20EV	<b>Old Segment ID #</b>	WA-45-1020
<b>Stream Route #</b>	56.298	<b>Water Resource Inventory Area</b>	45
<b>Township</b>	25N	<b>Waterbody Grid #</b>	
<b>Range</b>	17E	<b>Grid Latitude</b>	
<b>Section</b>	09	<b>Grid Longitude</b>	
<b>Basis for Consideration of Listing</b>	1 excursion beyond the criterion out of 34 samples (3%) at Ecology ambient monitoring station 45A110 (RM 35.6) between 9/91 and 9/96.		
<b>Remarks</b>	The information does not meet the Water Quality Program policy for listing this segment for this parameter.		

<b>Water Name</b>	WENATCHEE RIVER		
<b>Parameter</b>	Temperature	<b>Mediu</b>	Water
<b>Place on 1998 List?</b>	<input checked="" type="checkbox"/> Yes	<b>Listed in 1996</b>	<input checked="" type="checkbox"/> Yes <b>Action Needed</b> TMDL
<b>New Segment ID #</b>	HM20EV	<b>Old Segment ID #</b>	WA-45-1010
<b>Stream Route #</b>	0.6	<b>Water Resource Inventory Area</b>	45
<b>Township</b>	23N	<b>Waterbody Grid #</b>	
<b>Range</b>	20E	<b>Grid Latitude</b>	
<b>Section</b>	28	<b>Grid Longitude</b>	
<b>Basis for Consideration of Listing</b>	4 excursions beyond the criterion out of 33 samples (12%) at Ecology ambient monitoring station 45A070 (RM 1.1) between 9/91 and 9/96;;		
<b>Remarks</b>			

<b>Water Name</b>	WENATCHEE RIVER		
<b>Parameter</b>	Instream Flow	<b>Mediu</b>	Habitat
<b>Place on 1998 List?</b>	<input type="checkbox"/> Yes	<b>Listed in 1996</b>	<input type="checkbox"/> Yes <b>Action Needed</b> Other Control
<b>New Segment ID #</b>	HM20EV	<b>Old Segment ID #</b>	WA-45-1020
<b>Stream Route #</b>	73.32	<b>Water Resource Inventory Area</b>	45
<b>Township</b>	26N	<b>Waterbody Grid #</b>	
<b>Range</b>	17E	<b>Grid Latitude</b>	
<b>Section</b>	12	<b>Grid Longitude</b>	
<b>Basis for Consideration of Listing</b>	<p>USGS flows collected at Gage 12457000 during water years 1992-1994 show WAC flows (RM 46.2) are not met 64% of the days between 8/1 and 10/31.; Nehlson, et al. , Steelhead stock are at high risk of extinction.; SASSI, 1993., Spring Chinook and Steelhead stock are depressed.; Summer Steelhead have been listed as endangered in August 1997 under the Endangered Species Act.; Montgomery Water Group, et al. 1995. , low flow conditions caused by water withdrawals (irrigation is the largest) is one of the major factors impacting summer Chinook Populations. Two segments of the Wenatchee River (WA-45-1010 and WA-45-1020) meets all the Water Quality Program Policy criteria for inadequate instream flow and has been added to the list. Information compiled shows the hydrology and that the WAC instream flows are not met 90% of the time from August to October with depressed spring Chinook and steelhead stocks of fish. Documentation of the water rights and surface and groundwater diversions from the River deplete flows below that set in WAC.</p>		
<b>Remarks</b>			

<b>Water Name</b>	WENATCHEE RIVER		
<b>Parameter</b>	Dissolved Oxygen	<b>Mediu</b>	Water
<b>Place on 1998 List?</b>	<input type="checkbox"/> Yes	<b>Listed in 1996</b>	<input type="checkbox"/> Yes <b>Action Needed</b> TMDL
<b>New Segment ID #</b>	HM20EV	<b>Old Segment ID #</b>	WA-45-1020
<b>Stream Route #</b>	56.298	<b>Water Resource Inventory Area</b>	45
<b>Township</b>	25N	<b>Waterbody Grid #</b>	
<b>Range</b>	17E	<b>Grid Latitude</b>	
<b>Section</b>	09	<b>Grid Longitude</b>	
<b>Basis for Consideration of Listing</b>	<p>4 excursions beyond the criterion out of 34 samples (12%) at Ecology ambient monitoring station 45A110 (RM 35.6) between 9/91 and 9/96.</p>		
<b>Remarks</b>			