

4.1 INTRODUCTION

The Bear River Basin is part of the Great Basin Hydrologic region, and is identified by the USGS Hydrological Units (HUCs) listed in Table 4-1. The Bear River is the principal stream within this drainage area. It flows north out of Utah into Wyoming, then back into Utah, returns to Wyoming, then crosses into Idaho, then flows southwest into Utah and empties into the Great Salt Lake. The Bear River is the longest river (approximately 500 miles long) in the United States whose waters do not eventually empty into an ocean. Originally the Bear River did not flow into Bear Lake, but since the early 1900's, it has been diverted into Bear Lake at Stewart Dam. Water flows from Bear Lake into the Bear River via a canal. Other streams of interest in this watershed include the Logan, Blacksmith Fork, Cub River and the Little Bear Rivers.

Biological, water chemistry and field data collected from January 1, 2004 through December 31, 2008 were used to make assessments. Water quality data were compared against standards established for each of the designated beneficial uses. Figure 4-1 shows the beneficial use classifications for the Bear River Watershed Management Unit.

4.2 IMPAIRED WATERS

The list of streams and lakes impaired and requiring a TMDL (Category 5; Section 303d) for the Bear River are presented in Table 4-2. New listings for 2010 include Sage Creek, Big Creek, North Eden, Summit Creek Lower and the South Fork Little Bear. None of the streams or lakes on the Section 303d list are now meeting the standards or have an approved TMDL for this cycle. Assessment results for all AUs for streams are presented in Table 4-3 and lakes in Table 4-4. Lake assessments are further discussed in the next section.

4.3 LAKE ASSESSMENTS

Water quality assessment for lakes includes determination of Carlson's trophic state index (TSI), water chemistry, phytoplankton species dominance, reported fish kills, and water quality trends.

Table 4-5 shows TSIs based on each sample collected from May through September by sample date. Table 4-6 contains a summary of lake trophic status by study periods. Note that some of the changes in TSIs between assessment periods is due to the variability in the lakes and reservoirs and some is due to switching methodologies between 2008 and 2010. The reported TSI for 2010 is based on Chl-a whereas prior reporting cycles averaged the TSI based on secchi disk depth (TSI-SD), Chl-a (TSI-Chla), and total phosphorus (TSI-TP). Table 4-6 includes the TSIs using both the 2008 and 2010 method using the 2010 data.

TSI values for some lakes and reservoirs differed between the 2008 and 2010 methods. Small differences are defined as a difference in TSIs of 6-10, medium differences 11-20, and large differences as greater than 20. Small differences were observed for Cutler Reservoir, Little Creek Reservoir, Mantua Reservoir, and Woodruff Creek Reservoir. These small differences suggest little difference in trophic state between the new and older methods.

For the purpose of assessing trends, the TSI's from the most recent five assessment periods were considered. Consistent trends that resulted in a net TSI change of five or changes greater than 10 between 2008 and 2010, which are not attributable to the change in TSI methodology alone, are identified. Newton Reservoir appears to have an increasing trend in TSI.

4.4 HEALTH ADVISORIES

Porcupine Reservoir has a fish consumption advisory for mercury.

TABLES

Table 4-1 USGS Hydrological Units in the Bear River Watershed Management Unit

USGS Hydrological Units in the Bear River Watershed Management Unit.	
Hydrological Unit Code	Hydrological Unit Name
16010101	Upper Bear
16010102	Central Bear
16010201	Bear Lake
16010202	Middle Bear
16010203	Little Bear - Logan
16010204	Lower Bear - Malad

Table 4-2 Impaired Lakes and Streams Requiring a TMDL in the Bear River Watershed

Impaired Lakes and Streams Requiring a TMDL in the Bear River Watershed				
AU ID	AU Name	Water Type	Size	Location Description
UT16010101-004_00	Sage Creek	RIVER	9.094 MILES	Sage Creek and tributaries from confluence with Bear River to headwaters
Cause	Cycle First Listed	TMDL Status	Use	Source
Temperature, water	2010	Low Priority	Cold Water Aquatic Life	<ul style="list-style-type: none"> • Natural Sources • Source Unknown
AU ID	AU Name	Water Type	Size	Location Description
UT16010101-007_00	Big Creek	RIVER	26.839 MILES	Big Creek and tributaries from Bear River to headwaters
Cause	Cycle First Listed	TMDL Status	Use	Source
Temperature, water	2010	Medium Priority	Cold Water Aquatic Life	<ul style="list-style-type: none"> • Natural Sources • Source Unknown
pH	2006	Medium Priority	Agricultural Cold Water Aquatic Life Secondary Recreation	<ul style="list-style-type: none"> • Natural Sources • Source Unknown

AU ID	AU Name	Water Type	Size	Location Description
UT16010101-028_00	Yellow Creek	RIVER	16.4 MILES	Yellow Creek and tributaries from Utah-Wyoming border to headwaters
Cause	Cycle First Listed	TMDL Status	Use	Source
Benthic-Macroinvertebrate Bioassessments	2008	Low Priority	Cold Water Aquatic Life	<ul style="list-style-type: none"> • Source Unknown
AU ID	AU Name	Water Type	Size	Location Description
UT16010201-002_00	Laketown	RIVER	11.458 MILES	Laketown and Big Creek and other tributaries from Bear Lake to headwaters
Cause	Cycle First Listed	TMDL Status	Use	Source
Temperature, water	2008	Low Priority	Cold Water Aquatic Life	<ul style="list-style-type: none"> • Source Unknown

AU ID	AU Name	Water Type	Size	Location Description
UT16010201-004_00	North Eden	RIVER	15.062 MILES	North Eden Creek and tributaries from Bear Lake to headwaters
Cause	Cycle First Listed	TMDL Status	Use	Source
Temperature, water	2010	Low Priority	Cold Water Aquatic Life	<ul style="list-style-type: none"> • Natural Sources • Source Unknown
AU ID	AU Name	Water Type	Size	Location Description
UT16010202-002_00	Newton Creek	RIVER	5.159 MILES	Newton Creek from confluence with Cutler Reservoir to Newton Reservoir
Cause	Cycle First Listed	TMDL Status	Use	Source
Temperature, water	2008	Low Priority	Cold Water Aquatic Life	<ul style="list-style-type: none"> • Source Unknown

AU ID	AU Name	Water Type	Size	Location Description
UT16010202-005_00	Summit Creek Lower	RIVER	6.8 MILES	Summit Creek and tributaries from confluence with Bear River to USFS boundary
Cause	Cycle First Listed	TMDL Status	Use	Source
Temperature, water	2010	Low Priority	Cold Water Aquatic Life	<ul style="list-style-type: none"> Hydromodification
AU ID	AU Name	Water Type	Size	Location Description
UT16010203-008_00	Spring Creek	RIVER	7.361 MILES	Spring Creek and tributaries from confluence with Little Bear River to headwaters
Cause	Cycle First Listed	TMDL Status	Use	Source
Total Dissolved Solids	2006	Low Priority	Agricultural	<ul style="list-style-type: none"> Industrial Point Source Discharge

AU ID	AU Name	Water Type	Size	Location Description
UT16010203-009_00	Little Bear River-1	RIVER	16.516 MILES	Little Bear River from Cutler Reservoir to Hyrum Reservoir
Cause	Cycle First Listed	TMDL Status	Use	Source
Temperature, water	2008	Low Priority	Cold Water Aquatic Life	<ul style="list-style-type: none"> • Source Unknown
AU ID	AU Name	Water Type	Size	Location Description
UT16010203-013_00	South Fork Little Bear	RIVER	15.998 MILES	South Fork Little Bear and tributaries from confluence with Little Bear River to headwaters, except Davenport Creek
Cause	Cycle First Listed	TMDL Status	Use	Source
Temperature, water	2010	Low Priority	Cold Water Aquatic Life	<ul style="list-style-type: none"> • Source Unknown

AU ID	AU Name	Water Type	Size	Location Description
UT16010204-003_00	Bear River-1	RIVER	17.506 MILES	Bear River from Great Salt Lake to Malad River confluence
Cause	Cycle First Listed	TMDL Status	Use	Source
Total Dissolved Solids	2008	Low Priority	Agricultural	<ul style="list-style-type: none"> • Municipal & Industrial Point Source Discharge • Natural Sources
AU ID	AU Name	Water Type	Size	Location Description
UT16010204-006_00	Malad River-1	RIVER	51.961 MILES	Malad River from confluence with Bear River to Utah-Idaho state line
Cause	Cycle First Listed	TMDL Status	Use	Source
Benthic-Macroinvertebrate Bioassessments	2008	Low Priority	Non-Game Fish and Other Aquatic Life	<ul style="list-style-type: none"> • Source Unknown

AU ID	AU Name	Water Type	Size	Location Description
UT-L-16010202-002_00	Cutler Reservoir	FRESHWATER LAKE	7184 ACRES	LL= 414916/1115735 12,13N 1W USGS MAP AND DATE: CUTLER DAM 1964, NEWTON,UTAH 1964 WATERSHED: BEAR RIVER, WMU Bear River
Cause	Cycle First Listed	TMDL Status	Use	Source
Oxygen, Dissolved	2006	High Priority	Warm Water Aquatic Life	
Phosphorus (Total)	2006	High Priority	Warm Water Aquatic Life	

AU ID	AU Name	Water Type	Size	Location Description
UT-L-16010202-013_00	NEWTON RESERVOIR	FRESHWATER LAKE	350 ACRES	LL= 415414/1105853 13,14N 1,2W 9,31,32,36 USGS MAP AND DATE: TRENTON, UTAH-1964 WATERSHED: CLARKSTON CREEK, WMU Bear River
Cause	Cycle First Listed	TMDL Status	Use	Source
Temperature, water	2006	Low Priority	Cold Water Aquatic Life	<ul style="list-style-type: none"> Natural Sources
AU ID	AU Name	Water Type	Size	Location Description
UT-L-16010203-005_00	Hyrum Reservoir	FRESHWATER LAKE	438 ACRES	LL= 413714/1115128 10N 1E 7,8 USGS MAP AND DATE: PARADISE-1955 WATERSHED: LITTLE BEAR RIVER, WMU Bear River
Cause	Cycle First Listed	TMDL Status	Use	Source
Temperature, water	1994	Low Priority	Cold Water Aquatic Life	

AU ID	AU Name	Water Type	Size	Location Description
UT-L-16010203-012_00	Tony Grove Lake	FRESHWATER LAKE	25 ACRES	LL= 415335/1113825 13N 3E 5 USGS MAP AND DATE: NAOMI PEAK, UTAH-1969 WATERSHED: TONY GROVE CREEK, WMU Bear River
Cause	Cycle First Listed	TMDL Status	Use	Source
Oxygen, Dissolved	2006	Low Priority	Cold Water Aquatic Life	
Temperature, water	2006	Low Priority	Cold Water Aquatic Life	
pH	2006	Low Priority	Cold Water Aquatic Life	
AU ID	AU Name	Water Type	Size	Location Description
UT-L-16010204-033_00	Mantua Reservoir	FRESHWATER LAKE	554 ACRES	LL= 413012/1115557 9N 1W 22,23 USGS MAP AND DATE: MOUNT PISGAH 1969 WATERSHED: MAPLE CREEK, WMU Bear River
Cause	Cycle First Listed	TMDL Status	Use	Source
Temperature, water	2008	Low Priority	Cold Water Aquatic Life	

Table 4-3 Assessment Results for Bear River Watershed Streams

Assessment Results for Bear River Watershed Streams						
AU ID	AU Name		Water Type	Size	Location Description	
UT16010101-001_00	Bear River West		RIVER	6.285 MILES	Bear River west side tributaries from Sixmile Creek north	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Not Assessed	N				
Cold Water Aquatic Life	Not Assessed	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010101-002_00	Six Mile Creek		RIVER	15.266 MILES	Sixmile Creek from reservoir to headwaters	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N				
Cold Water Aquatic Life	Fully Supporting	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010101-003_00	Little Creek		RIVER	6.598 MILES	Little Creek and tributaries from confluence with Bear River to headwaters	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N				
Cold Water Aquatic Life	Fully Supporting	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010101-004_00	Sage Creek		RIVER	9.094 MILES	Sage Creek and tributaries from confluence with Bear River to headwaters	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N	Temperature, water	2010	Low Priority	<ul style="list-style-type: none"> • Source Unknown • Natural Sources
Cold Water Aquatic Life	Not Supporting	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010101-005_00	Otter Creek		RIVER	20.694 MILES	Otter Creek and tributaries from Bear River to headwaters	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N				
Cold Water Aquatic Life	Fully Supporting	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010101-006_00	Bear River-4		RIVER	55.666 MILES	Bear River from Woodruff Creek north to Sage Creek Junction	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N				
Cold Water Aquatic Life	Fully Supporting	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010101-007_00	Big Creek		RIVER	26.839 MILES	Big Creek and tributaries from Bear River to headwaters	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Not Supporting	N	pH	2006	Medium Priority	<ul style="list-style-type: none"> • Source Unknown • Natural Sources
Cold Water Aquatic Life	Not Supporting	N	pH Temperature, water	2006 2010	Medium Priority Medium Priority	
Secondary Recreation	Not Supporting	N	pH	2006	Medium Priority	

AU ID	AU Name		Water Type	Size	Location Description	
UT16010101-008_00	North Woodruff		RIVER	0.606 MILES	Bear River west side tributaries between Woodruff and Big Creek	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N				
Cold Water Aquatic Life	Fully Supporting	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010101-009_00	Bear River-5		RIVER	12.241 MILES	Bear River from Woodruff Creek upstream to Utah-Wyoming border	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N				
Cold Water Aquatic Life	Fully Supporting	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010101-010_00	Birch Creek		RIVER	15.82 MILES	Birch Creek and tributaries from confluence with Woodruff Creek to headwaters	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N				
Cold Water Aquatic Life	Fully Supporting	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010101-011_00	Woodruff Creek - 1		RIVER	7.64 MILES	Woodruff Creek from mouth to Birch Creek confluence	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N				
Cold Water Aquatic Life	Fully Supporting	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010101-012_00	Unnamed Creek		RIVER	0 MILES	Unnamed tributary to Saleratus Creek	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Not Assessed	N				
Cold Water Aquatic Life	Not Assessed	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010101-013_00	Woodruff Creek - 4		RIVER	33.818 MILES	Woodruff Creek and tributaries from Woodruff Creek Reservoir to headwaters	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N				
Cold Water Aquatic Life	Fully Supporting	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010101-014_00	Woodruff Creek - 3		RIVER	1.163 MILES	Woodruff Creek Reservoir tributaries excluding Woodruff Creek	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N				
Cold Water Aquatic Life	Fully Supporting	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010101-015_00	Woodruff Creek - 2		RIVER	4.607 MILES	Woodruff Creek and tributaries from Birch Creek confluence to Woodruff Creek Reservoir	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N				
Cold Water Aquatic Life	Fully Supporting	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010101-016_00	Saleratus Creek		RIVER	29.047 MILES	Saleratus Creek and tributaries from confluence with Woodruff Creek to headwaters	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N	Oxygen, Dissolved	2006	Completed	<ul style="list-style-type: none"> • Source Unknown
Cold Water Aquatic Life	Not Supporting	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010101-017_00	Dry Creek		RIVER	2.77 MILES	Dry Creek and tributaries from confluence with Saleratus Creek to headwaters	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Not Assessed	N				
Cold Water Aquatic Life	Not Assessed	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010101-018_00	Sutton Creek		RIVER	26.613 MILES	Sutton Creek and tributaries from Utah-Wyoming border to headwaters	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Not Assessed	N				
Cold Water Aquatic Life	Not Assessed	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010101-019_00	Yellow Creek Tributaries		RIVER	20.812 MILES	Yellow Creek tributaries (e.g. Thief, Chicken, Spring Creeks) above Barker Reservoir and Yellow Creek below Barker Reservoir	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Not Assessed	N				
Cold Water Aquatic Life	Not Assessed	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010101-021_00	Bear River-6		RIVER	16.971 MILES	Bear River and tributaries from Utah-Wyoming border to Hayden Fork - Stillwater Fork confluence	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N				
Cold Water Aquatic Life	Fully Supporting	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010101-022_00	Mill Creek		RIVER	55.101 MILES	Mill Creek and tributaries from Utah-Wyoming border to headwaters	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N				
Cold Water Aquatic Life	Fully Supporting	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010101-023_00	West Fork Bear River		RIVER	66.241 MILES	West Fork Bear River and tributaries from confluence with Bear River to headwaters	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N				
Cold Water Aquatic Life	Fully Supporting	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010101-024_00	Hayden Fork		RIVER	18.076 MILES	Hayden Fork and tributaries from confluence with Stillwater Creek to headwaters	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N				
Cold Water Aquatic Life	Fully Supporting	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010101-025_00	Stillwater Fork		RIVER	30.354 MILES	Stillwater Fork and tributaries from confluence with Hayden Fork to headwaters	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N				
Cold Water Aquatic Life	Fully Supporting	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010101-026_00	East Fork Bear River		RIVER	33.722 MILES	East Fork Bear River and tributaries from confluence with Hayden Fork to headwaters	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N				
Cold Water Aquatic Life	Fully Supporting	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010101-027_00	Bear River East		RIVER	1.406 MILES	Bear River east side tributaries from Woodruff to near Sage Creek Junction	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N				
Cold Water Aquatic Life	Fully Supporting	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010101-028_00	Yellow Creek		RIVER	16.4 MILES	Yellow Creek and tributaries from Utah-Wyoming border to headwaters	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Not Assessed	N	Benthic-Macroinvertebrate Bioassessments	2008	Low Priority	<ul style="list-style-type: none"> • Source Unknown
Cold Water Aquatic Life	Not Supporting	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010102-001_00	Bear River North		RIVER	0 MILES	Bear River tributaries in HUC 16010102	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Not Assessed	N				
Cold Water Aquatic Life	Not Assessed	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010201-001_00	Bear Lake West		RIVER	0.01 MILES	Bear Lake west side tributaries	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N				
Cold Water Aquatic Life	Fully Supporting	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010201-002_00	Laketown		RIVER	11.458 MILES	Laketown and Big Creek and other tributaries from Bear Lake to headwaters	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N	Temperature, water	2008	Low Priority	<ul style="list-style-type: none"> • Source Unknown
Cold Water Aquatic Life	Not Supporting	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010201-003_00	South Eden		RIVER	4.231 MILES	South Eden Creek from Bear Lake to headwaters	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N				
Cold Water Aquatic Life	Fully Supporting	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010201-004_00	North Eden		RIVER	15.062 MILES	North Eden Creek and tributaries from Bear Lake to headwaters	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N	Temperature, water	2010	Low Priority	<ul style="list-style-type: none"> • Source Unknown • Natural Sources
Cold Water Aquatic Life	Not Supporting	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010202-001_00	Worm Creek		RIVER	2.5 MILES	Worm Creek from confluence with Cub River to Utah-Idaho state line	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N				
Secondary Recreation	Not Assessed	N				
Warm Water Aquatic Life	Fully Supporting	N				
Wildlife Habitat	Fully Supporting	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010202-002_00	Newton Creek		RIVER	5.159 MILES	Newton Creek from confluence with Cutler Reservoir to Newton Reservoir	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N	Phosphorus (Total) Temperature, water	2006 2008	Completed Low Priority	<ul style="list-style-type: none"> • Agriculture • Source Unknown
Cold Water Aquatic Life	Not Supporting	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010202-003_00	Hopkins Slough		RIVER	7.646 MILES	Hopkins Slough from confluence with Bear River to headwaters	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Not Assessed	N				
Secondary Recreation	Not Assessed	N				
Warm Water Aquatic Life	Insufficient Information	N				
Wildlife Habitat	Insufficient Information	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010202-004_00	Bear River-3		RIVER	27.843 MILES	Bear River from Cutler Reservoir to Idaho state line	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N	Phosphorus (Total) Sedimentation/Siltation	2006 2006	Completed Completed	<ul style="list-style-type: none"> • Agriculture
Secondary Recreation	Fully Supporting	N				
Warm Water Aquatic Life	Not Supporting	N				
Wildlife Habitat	Fully Supporting	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010202-005_00	Summit Creek Lower		RIVER	6.8 MILES	Summit Creek and tributaries from confluence with Bear River to USFS boundary	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N	Temperature, water	2010	Low Priority	<ul style="list-style-type: none"> Hydromodification
Cold Water Aquatic Life	Not Supporting	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010202-006_00	City Creek		RIVER	7.304 MILES	City Creek and tributaries and other Bear River east side tributaries south toward Summit Creek to headwaters	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Not Assessed	N				
Secondary Recreation	Not Assessed	N				
Warm Water Aquatic Life	Not Assessed	N				
Wildlife Habitat	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010202-007_00	Cherry Creek		RIVER	3.24 MILES	Cherry Creek and tributaries from confluence with Cub River to headwaters	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N				
Secondary Recreation	Not Assessed	N				
Warm Water Aquatic Life	Fully Supporting	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010202-008_00	High Creek Lower		RIVER	3.1 MILES	High Creek and tributaries from confluence with Cub River to USFS boundary	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N	Low flow alterations Phosphorus (Total)	2006	Pollution Completed	<ul style="list-style-type: none"> • Flow Alterations from Water Diversions • Hydromodification • Agriculture
Cold Water Aquatic Life	Not Supporting	N				
Secondary Recreation	Fully Supporting	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010202-009_00	Spring Creek Lewiston		RIVER	2.961 MILES	Spring Creek (Lewiston) and tributaries from confluence with Cub River to Utah-Idaho border	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N	Phosphorus (Total)	2006	Completed	<ul style="list-style-type: none"> • Agriculture
Secondary Recreation	Not Assessed	N				
Warm Water Aquatic Life	Not Supporting	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010202-010_00	Cub River		RIVER	14.306 MILES	Cub River from confluence with Bear River to Utah-Idaho state line	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N	Phosphorus (Total) Sedimentation/Siltation	2006 2006	Completed Completed	<ul style="list-style-type: none"> • Agriculture • Habitat Modification - other than Hydromodification
Secondary Recreation	Fully Supporting	N				
Warm Water Aquatic Life	Not Supporting	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010202-011_00	Summit Creek Upper		STREAM	8.354 MILES	Summit Creek and tributaries from USFS boundary to headwaters	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Not Assessed	N				
Cold Water Aquatic Life	Not Assessed	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010202-012_00	High Creek Upper		RIVER	9.434 MILES	High Creek and tributaries from U.S. Forest Service boundary to headwaters	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N				
Cold Water Aquatic Life	Fully Supporting	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010202-013_00	Clarkston Creek		RIVER	57.796 MILES	Clarkston Creek and tributaries from Newton Reservoir to Utah-Idaho State Line	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N				
Cold Water Aquatic Life	Fully Supporting	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010203-001_00	Cutler West		RIVER	1.158 MILES	Cutler Reservoir west side tributaries	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Not Assessed	N				
Cold Water Aquatic Life	Not Assessed	N				
Secondary Recreation	Not Assessed	N				
Wildlife Habitat	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010203-002_00	Swift Slough		RIVER	10.382 MILES	Swift Slough and tributaries from Cutler Reservoir to headwaters	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Not Assessed	N				
Secondary Recreation	Not Assessed	N				
Warm Water Aquatic Life	Not Assessed	N				
Wildlife Habitat	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010203-005_00	Logan River-1		RIVER	32.194 MILES	Logan River and tributaries, except Blacksmith Fork drainage, from Cutler Reservoir to Third Dam	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N	Phosphorus (Total)	2006	Completed	<ul style="list-style-type: none"> • Agriculture • Urban Runoff/Storm Sewers
Cold Water Aquatic Life	Not Supporting	N				
Secondary Recreation	Insufficient Information	N				
Wildlife Habitat	Fully Supporting	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010203-006_00	Logan River-2		RIVER	68.174 MILES	Logan River and tributaries from Third Dam to headwaters	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N				
Cold Water Aquatic Life	Fully Supporting	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010203-007_00	Little Bear-3		RIVER	7.041 MILES	Little Bear River west side tributaries from Cutler Reservoir To Hyrum Reservoir	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Not Assessed	N				
Cold Water Aquatic Life	Not Assessed	N				
Secondary Recreation	Not Assessed	N				
Wildlife Habitat	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010203-008_00	Spring Creek		RIVER	7.361 MILES	Spring Creek and tributaries from confluence with Little Bear River to headwaters	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Not Supporting	N	Total Dissolved Solids	2006	Low Priority	<ul style="list-style-type: none"> • Industrial Point Source Discharge • Agriculture • Source Unknown
Cold Water Aquatic Life	Not Supporting	N	Ammonia (Un-ionized) Oxygen, Dissolved Phosphorus (Total) Temperature, water	2008 2006 2006 2006	Completed Completed Completed Completed	
Secondary Recreation	Not Supporting	N	Fecal Coliform	1998	Completed	
Wildlife Habitat	Fully Supporting	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010203-009_00	Little Bear River-1		RIVER	16.516 MILES	Little Bear River from Cutler Reservoir to Hyrum Reservoir	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N	Phosphorus (Total) Temperature, water	2008 2008	Completed Low Priority	<ul style="list-style-type: none"> • Agriculture • Source Unknown
Cold Water Aquatic Life	Not Supporting	N				
Secondary Recreation	Not Assessed	N				
Wildlife Habitat	Fully Supporting	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010203-011_00	Little Bear River-2		RIVER	6.739 MILES	Little Bear River from Hyrum Reservoir to East Fork Little Bear confluence	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N				
Cold Water Aquatic Life	Fully Supporting	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010203-012_00	East Fork Little Bear		RIVER	4.3 MILES	Little Bear River from confluence Little Bear River to Porcupine Reservoir	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N				
Cold Water Aquatic Life	Fully Supporting	N				
Secondary Recreation	Not Assessed	N				
Wildlife Habitat	Fully Supporting	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010203-013_00	South Fork Little Bear		RIVER	15.998 MILES	South Fork Little Bear and tributaries from confluence with Little Bear River to headwaters, except Davenport Creek	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N	Temperature, water	2010	Low Priority	<ul style="list-style-type: none"> • Source Unknown
Cold Water Aquatic Life	Not Supporting	N				
Secondary Recreation	Not Assessed	N				
Wildlife Habitat	Fully Supporting	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010203-014_00	East Fork Little Bear-1		RIVER	7.033 MILES	East Fork Little Bear River and tributaries from confluence with Little Bear to Porcupine Reservoir	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N				
Cold Water Aquatic Life	Fully Supporting	N				
Secondary Recreation	Not Assessed	N				
Wildlife Habitat	Fully Supporting	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010203-015_00	Davenport Creek		RIVER	28.863 MILES	Davenport Creek and tributaries from confluence with South Fork Little Bear to headwaters	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N				
Cold Water Aquatic Life	Fully Supporting	N				
Secondary Recreation	Not Assessed	N				
Wildlife Habitat	Fully Supporting	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010203-016_00	Porcupine Creek		RIVER	1.488 MILES	Porcupine Creek and tributaries from Porcupine Reservoir to headwaters	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N				
Cold Water Aquatic Life	Fully Supporting	N				
Secondary Recreation	Not Assessed	N				
Wildlife Habitat	Fully Supporting	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010203-017_00	East Fork Little Bear-2		RIVER	27.869 MILES	East Fork Little Bear River and tributaries from Porcupine Reservoir to headwaters	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N				
Cold Water Aquatic Life	Fully Supporting	N				
Secondary Recreation	Not Assessed	N				
Wildlife Habitat	Fully Supporting	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010203-018_00	Black Smiths Fork-2		RIVER	53.191 MILES	Blacksmith Fork and tributaries from confluence with Left Hand Fork Blacksmith Fork to headwaters	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N				
Cold Water Aquatic Life	Fully Supporting	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010203-019_00	Left Hand Fork Blacksmiths Fork		RIVER	26.595 MILES	Left Hand Fork Blacksmiths Fork and tributaries from confluence with Blacksmiths Fork to headwaters	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N				
Cold Water Aquatic Life	Fully Supporting	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010203-020_00	Black Smiths Fork-1		RIVER	10.423 MILES	Blacksmiths Fork and tributaries from confluence with Logan River to Left Hand Fork Blacksmiths Fork	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N				
Cold Water Aquatic Life	Fully Supporting	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010204-001_00	Box Elder Creek-1		RIVER	2.994 MILES	Box Elder Creek from the confluence with Black Slough to Brigham City Reservoir (the Mayor's Pond)	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Not Assessed	N				
Non-Game Fish and Other Aquatic Life	Not Assessed	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010204-002_00	Lower Bear East		RIVER	37.142 MILES	Bear River east side tributaries from Malad confluence south	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Not Assessed	N				
Secondary Recreation	Not Assessed	N				
Warm Water Aquatic Life	Not Assessed	N				
Wildlife Habitat	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010204-003_00	Bear River-1		RIVER	17.506 MILES	Bear River from Great Salt Lake to Malad River confluence	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Not Supporting	N	Total Dissolved Solids	2008	Low Priority	<ul style="list-style-type: none"> • Industrial Point Source Discharge • Municipal Point Source Discharges • Natural Sources • Agriculture
Secondary Recreation	Not Assessed	N				
Warm Water Aquatic Life	Not Supporting	N	Phosphorus (Total)	2006	Completed	
Wildlife Habitat	Fully Supporting	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010204-004_00	Lower Bear West		RIVER	10.876 MILES	Bear River west side tributaries from Malad River confluence south	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Not Assessed	N				
Secondary Recreation	Not Assessed	N				
Warm Water Aquatic Life	Not Assessed	N				
Wildlife Habitat	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010204-005_00	Box Elder Creek-2		RIVER	6.937 MILES	Box Elder Creek from Brigham City Reservoir (the Mayor's Pond) to headwaters	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Not Assessed	N				
Cold Water Aquatic Life	Not Assessed	N				
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010204-006_00	Malad River-1		RIVER	51.961 MILES	Malad River from confluence with Bear River to Utah-Idaho state line	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Non-Game Fish and Other Aquatic Life	Not Supporting	N	Benthic-Macroinvertebrate Bioassessments	2008	Low Priority	• Source Unknown
Secondary Recreation	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010204-007_00	Middle Bear East		RIVER	13.899 MILES	Bear River east side tributaries from Malad River confluence north to HUC boundary	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Not Assessed	N				
Secondary Recreation	Not Assessed	N				
Warm Water Aquatic Life	Not Assessed	N				
Wildlife Habitat	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010204-008_00	Bear River-2		RIVER	41.5 MILES	Bear River from Malad River confluence to Cutler Reservoir	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Fully Supporting	N	Phosphorus (Total)	2006	Completed	<ul style="list-style-type: none"> • Industrial Point Source Discharge • Municipal Point Source Discharges • Agriculture
Secondary Recreation	Fully Supporting	N				
Warm Water Aquatic Life	Not Supporting	N				
Wildlife Habitat	Fully Supporting	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010204-009_00	Middle Bear West		RIVER	3.16 MILES	Tributaries on West Side of Bear River from Malad confluence north to HUC boundary	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Agricultural	Not Assessed	N				
Secondary Recreation	Not Assessed	N				
Warm Water Aquatic Life	Not Assessed	N				
Wildlife Habitat	Not Assessed	N				

AU ID	AU Name		Water Type	Size	Location Description	
UT16010204-010_00	Malad River-2		RIVER	17.819 MILES	Malad River tributaries	
Use	Attainment	Threatened	Cause	Cycle First Listed	TMDL Status	Source
Non-Game Fish and Other Aquatic Life	Fully Supporting	N				
Secondary Recreation	Not Assessed	N				

Table 4-4 Assessment Results for Bear River Watershed Lake Assessment Units

Assessment Results for Bear River Watershed Lake Assessment Units																
Assessment Unit ID	Name	Assessment Category 2008	Assessment Category 2010	Parameters Not Supporting 2010					Total P > 0.025 mg/L or TSI>50	Winter DO/Fish Kills	Cyano Bacteria Present	Assessment Cycle				
				Parameters Not Supporting 2008	DO	pH	T	Other				2002	2004	2006	2008	2010
UT-L-16010201-003	Bear Lake	2	2		FS	FS	FS		No		N	FS	FS	FS	FS	FS
UT-L-16010101-002	Birch Creek Reservoir #2	2	2		FS	FS	FS		P		N	FS	NS	NS	FS	NS
UT-L-16010202-002	Cutler Reservoir	5	5		FS	FS	FS		TP, TSI		ND	NS	FS	FS	NS	FS
UT-L-16010203-005	Hyrum Reservoir	4A	5	DO	NS	FS	NS		No		N	NS	NS	NS	FS	NS

Assessment Results for Bear River Watershed Lake Assessment Units

				Parameters Not Supporting 2010					Assessment Cycle							
Assessment		Assessment Category	Assessment Category	Parameters Not Supporting					Total P > 0.025 mg/L or TSI>50	Winter DO/Fish Kills	Cyano Bacteria Present					
Unit ID	Name	2008	2010	2008	DO	pH	T	Other				2002	2004	2006	2008	2010
UT-L-16010101-007	Little Creek Reservoir	3B	2	pH	FS	FS	FS		TP		Y	FS	FS	FS	NS	FS
UT-L-16010204-033	Mantua Reservoir	4	5	pH, T	FS	NS	NS		No		Y	NS	NS	NS	NS	NS
UT-L-16010202-013	Newton Reservoir	4	4	DO	FS	FS	FS		TP, TSI		Y	NS	NS	NS	NS	FS
UT-L-16010203-009	Porcupine Reservoir	2	5		FS	NS	FS		No		N	NS	NS	FS	FS	NS

Assessment Results for Bear River Watershed Lake Assessment Units

Assessment		Assessment Category	Assessment Category	Parameters Not Supporting 2010					Assessment Cycle							
				Parameters Not Supporting	Total P > 0.025 mg/L or TSI>50	Winter DO/Fish Kills	Cyano Bacteria Present	2002	2004	2006	2008	2010				
Unit ID	Name	2008	2010	2008	DO	pH	T	Other								
UT-L-16010203-012	Tony Grove Lake	5	5	DO, pH	FS	FS	NS		No	FK	Y	NS	NS	NS	NS	NS
UT-L-16010101-030	Whitney Reservoir	2	2	FS	FS	FS	FS		No		Y	FS	FS	FS	FS	FS
UT-L-16010101-001	Woodruff Creek Reservoir	2	2	FS	FS	FS	FS				Y	FS	FS	FS	FS	FS

Assessment Results for Bear River Watershed Lake Assessment Units

Assessment		Assessment Category	Assessment Category	Parameters Not Supporting 2010					Total P > 0.025 mg/L or TSI>50	Winter DO/Fish Kills	Cyano Bacteria Present	Assessment Cycle				
Unit ID	Name	2008	2010	2008	DO	pH	T	Other				2002	2004	2006	2008	2010

Notes:

FS Fully Supporting

NS Not Supporting

Y Yes

N No

DO Dissolved Oxygen

FK Fish Kill

T Temperature

Total P Total Phosphorus

NA Not Analyzed

TDS Total Dissolved Solids

Table 4-5 Individual Lake and Reservoir 2010 Trophic State Index (TSI)

Individual Lake and Reservoir 2010 Trophic State Index (TSI)						
Watershed Management Unit	Assessment Unit	Name	Date	TSI-SD	TSI-Chla	TSI-TP
Bear River	UT-L-16010201-003	Bear Lake	9/9/2008	33	-15	37
Bear River	UT-L-16010101-002	Birch Creek Reservoir #2	8/23/2007	42	15	37
Bear River	UT-L-16010101-002	Birch Creek Reservoir #2	9/3/2008	65	78	62
Bear River	UT-L-16010202-002	Cutler Reservoir	7/18/2007	70	62	72
Bear River	UT-L-16010203-005	Hyrum Reservoir	7/18/2007	52	43	37
Bear River	UT-L-16010203-005	Hyrum Reservoir	9/8/2008	53	46	37
Bear River	UT-L-16010101-007	Little Creek Reservoir	9/2/2008	52	44	66
Bear River	UT-L-16010204-033	Mantua Reservoir	7/23/2007	38	41	37
Bear River	UT-L-16010204-033	Mantua Reservoir	9/15/2008	37	45	37
Bear River	UT-L-16010202-013	Newton Reservoir	9/8/2008	61	63	62

Individual Lake and Reservoir 2010 Trophic State Index (TSI)						
Watershed Management Unit	Assessment Unit	Name	Date	TSI-SD	TSI-Chla	TSI-TP
Bear River	UT-L-16010203-009	Porcupine Reservoir	7/17/2007	31		37
Bear River	UT-L-16010203-009	Porcupine Reservoir	9/10/2008	41	40	37
Bear River	UT-L-16010203-012	Tony Grove Reservoir	6/5/2007	44	30	37
Bear River	UT-L-16010203-012	Tony Grove Reservoir	7/19/2007		32	37
Bear River	UT-L-16010203-012	Tony Grove Reservoir	8/14/2007	40	32	37
Bear River	UT-L-16010203-012	Tony Grove Reservoir	8/21/2007		35	37
Bear River	UT-L-16010203-012	Tony Grove Reservoir	9/25/2007	32	39	37
Bear River	UT-L-16010203-012	Tony Grove Reservoir	10/23/2007	37	37	37
Bear River	UT-L-16010203-012	Tony Grove Reservoir	9/9/2008	32	35	37
Bear River	UT-L-16010101-030	Whitney Reservoir	9/16/2008	43	46	37
Bear River	UT-L-16010101-001	Woodruff Creek Reservoir	9/3/2008	43	50	37

Table 4-6 Summary of Individual Lake and Reservoir Trophic State Index (TSI)

Summary of Individual Lake and Reservoir Support for Bear River Watershed Management Unit																
Assessment Unit ID	Name	Assessment Category 2008	Assessment Category 2010	Parameters Not Supporting 2008	Parameters Not Supporting 2010				Total P > 0.025 mg/L or TSI>50	Winter DO/Fish Kills	Cyano Bacteria Present	Assessment Cycle				
					DO	pH	T	Other				2002	2004	2006	2008	2010
UT-L-16010201-003	Bear Lake	2	2		FS	FS	FS		No		N	FS	FS	FS	FS	FS
UT-L-16010101-002	Birch Creek Reservoir #2	2	2		FS	FS	FS		P		N	FS	NS	NS	FS	NS
UT-L-16010202-002	Cutler Reservoir	5	5		FS	FS	FS		TP, TSI		ND	NS	FS	FS	NS	FS

Summary of Individual Lake and Reservoir Support for Bear River Watershed Management Unit

Assessment Unit ID	Name	Assessment Category 2008	Assessment Category 2010	Parameters Not Supporting 2008	Parameters Not Supporting 2010				Total P > 0.025 mg/L or TSI>50	Winter DO/Fish Kills	Cyano Bacteria Present	Assessment Cycle				
					DO	pH	T	Other				2002	2004	2006	2008	2010
UT-L-16010203-005	Hyrum Reservoir	4A	5	DO	NS	FS	NS		No		N	NS	NS	NS	FS	NS
UT-L-16010101-007	Little Creek Reservoir	3B	2	pH	FS	FS	FS		TP		Y	FS	FS	FS	NS	FS
UT-L-16010204-033	Mantua Reservoir	4	5	pH, T	FS	NS	NS		No		Y	NS	NS	NS	NS	NS
UT-L-16010202-013	Newton Reservoir	4	4	DO	FS	FS	FS		TP, TSI		Y	NS	NS	NS	NS	FS

Summary of Individual Lake and Reservoir Support for Bear River Watershed Management Unit

Assessment Unit ID	Name	Assessment Category 2008	Assessment Category 2010	Parameters Not Supporting 2008	Parameters Not Supporting 2010				Total P > 0.025 mg/L or TSI>50	Winter DO/Fish Kills	Cyano Bacteria Present	Assessment Cycle				
					DO	pH	T	Other				2002	2004	2006	2008	2010
UT-L-16010203-009	Porcupine Reservoir	2	5		FS	NS	FS		No		N	NS	NS	FS	FS	NS
UT-L-16010203-012	Tony Grove Lake	5	5	DO, pH	FS	FS	NS		No	FK	Y	NS	NS	NS	NS	NS
UT-L-16010101-030	Whitney Reservoir	2	2	FS	FS	FS	FS		No		Y	FS	FS	FS	FS	FS
UT-L-16010101-001	Woodruff Creek Reservoir	2	2	FS	FS	FS	FS				Y	FS	FS	FS	FS	FS

Summary of Individual Lake and Reservoir Support for Bear River Watershed Management Unit

Assessment Unit ID	Name	Assessment Category 2008	Assessment Category 2010	Parameters Not Supporting 2008	Parameters Not Supporting 2010				Total P > 0.025 mg/L or TSI > 50	Winter DO/Fish Kills	Cyano Bacteria Present	Assessment Cycle				
					DO	pH	T	Other				2002	2004	2006	2008	2010

Notes:

FS Fully Supporting

NS Not Supporting

Y Yes

N No

DO Dissolved Oxygen

FK Fish Kill

T Temperature

Total P Total Phosphorus

NA Not Analyzed

TDS Total Dissolved Solids

FIGURES

Bear River Management Unit

Beneficial Use Classification and Monitoring Sites

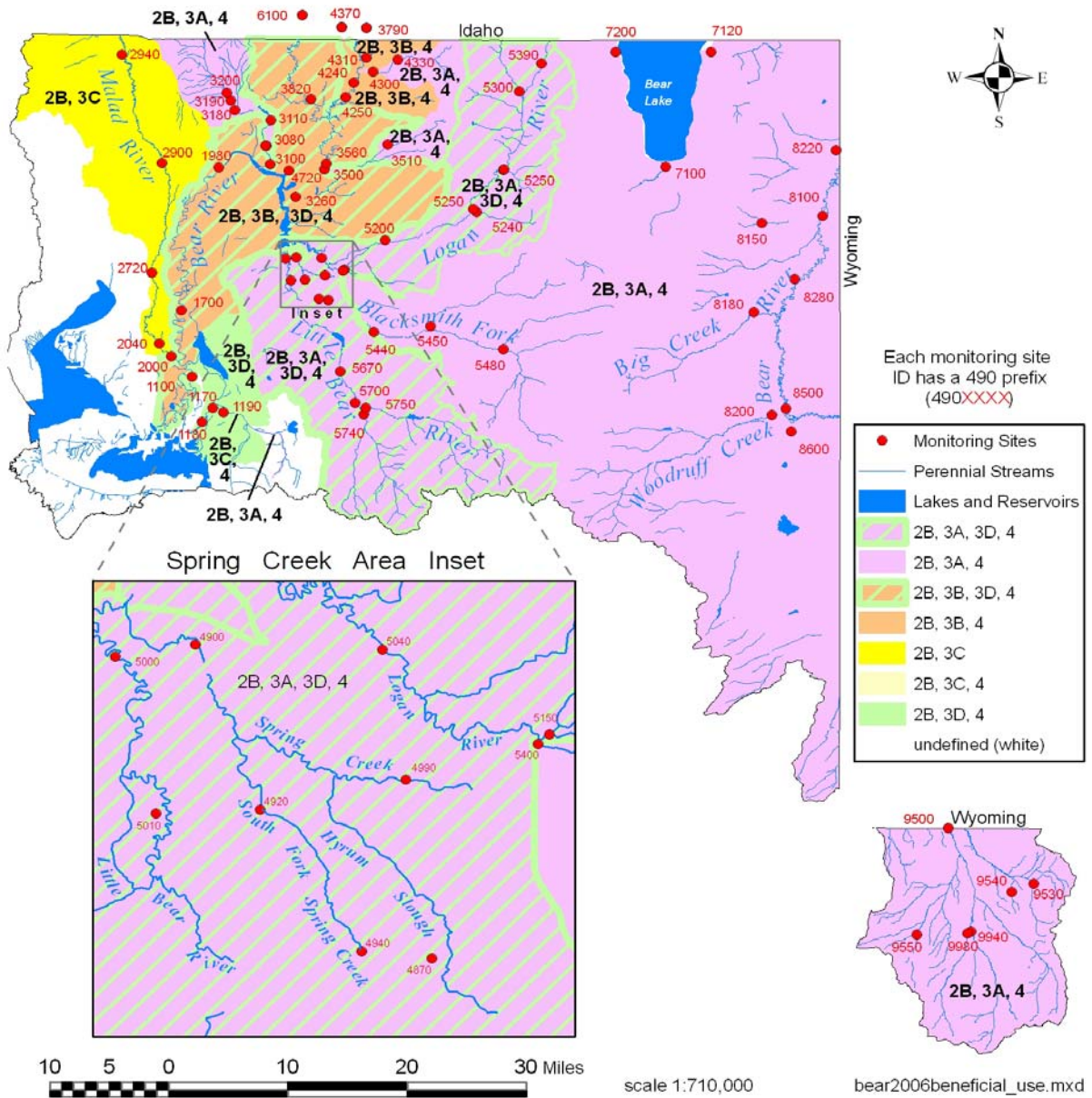


Figure 4-1 Beneficial Use Classes for Bear River Watershed Management Unit