Summary of TMDL Approvals in Utah

303(d)(1) Approved TMDLs - 87

APPROVED POINT SOURCE TMDLs					
Waterbody Name	**TMDL Parameter/ Pollutant**	**Section 303(d)(1) TMDL**	**Section 303(d)(3) TMDL**	**Point Source**	**Approval Date**
Price River UT0021814	Ammonia TRC Al As Cd CrIII CrVI Cu Fe Pb Ni Se Ag Zn CN TDS Aldrin Chlordane DDT/DDE Dieldrin Endosulfan Endrin Guthion Heptachlor Lindane Methoxychlor Mirex Parathion PCBs Pentachlorophenol Toxephene 1,1,1-trichloroethane	X X	 X X X X X X X X X X X X X X X X X X X X X X X X X X X X X	Price River Improvement Dist.	Nov. 12, 1996
Jordanelle Reservoir* UT-0022403	copper lead mercury zinc aluminum	X X X X	 X	United Park City Mines	July 21, 1997

APPROVED POINT SOURCE TMDLs

Waterbody Name	TMDL Parameter/ Pollutant	Section 303(d)(1) TMDL	Section 303(d)(3) TMDL	Point Source	Approval Date
Dry Creek* UT–0020109	TRC	X		Spanish Fork WWTP	July 21, 1997
	ammonia	X			
	DO	X			
	BOD_5	X			
	Al		X		
	As		X		
	Cd		X		
	Cr(III)		X		
	Cr(VI)		X		
	Cu		X		
	Fe		X		
	Pb		X		
	Hg		X		
	Ni		X		
	Se		X		
	Ag		X		
	Zn		X		
	CN		X		
	TDS		X		
	Aldrin		X		
	chlordane		X		
	DDT/DDE		X		
	dieldrin		X		
	endosulfan		X		
	endrin		X		
	guthion		X		
	heptachlor		X		
	lindane		X		
	methoxychlor		X		
	mirex		X		
	paration		X		
	PCBs		X		
	pentachlorophenol		X		
	toxephene		X		
	gross beta		X		
	nitrate		X		
	phosphate		X		

APPROVED POINT SOURCE TMDLs

Waterbody Name	TMDL Parameter/ Pollutant	Section 303(d)(1) TMDL	Section 303(d)(3) TMDL	Point Source	Approval Date
Grassy Trail Creek* UT–22942	Ammonia		X	Sunnyside Coal Company	August 22, 1997
	DO	X			
	BOD		X		
	CBOD		X		
	aluminum		X		
	arsenic		X		
	cadmium		X		
	chromium III		X		
	chromium IV		X		
	copper		X		
	iron		X		
	lead		X		
	mercury		X		
	nickel		X		
	selenium		X		
	silver		X		
	zinc		X		
	cyanide		X		
	TDS		X		
	aldrin		X		
	chlordane		X		
	DDT/DDE		X		
	dieldrin		X		
	endosulfan		X		
	endrin		X		
	guthion		X		
	heptachlor		X		
	lindane		X		
	methoxychlor		X		
	mirex		X		
	parathion		X		
	PCBs		X		
	pentachlorophenol		X		
	toxephene		X		

APPROVED POINT SOURCE TMDLs

Waterbody Name	TMDL Parameter/ Pollutant	Section 303(d)(1) TMDL	Section 303(d)(3) TMDL	Point Source	Approval Date
Bear Creek* UT0020249 UT0020427	ammonia dissolved oxygen TRC BOD CBOD aluminum arsenic cadmium chromium III chromium VI copper iron lead mercury nickel selenium silver zinc cyanide TDS aldrin chlordane DDT/DDE dieldrin endosulfan endrin guthion heptachlor lindane methoxychlor mirex parathion PBBs pentachlorophenol toxephene	X X	 X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X	Salem City Corporation Payson City Corporation	September 4, 1997
Deer Creek* UT0023604	aluminum arsenic cadmium chromium III chromium VI copper iron lead mercury nickel selenium silver zinc cyanide TDS		X X X X X X X X X X X X X X X	Pacificorp- Deer Creek Mine	November 13, 1997
Unnamed ditch to Cutler Reservoir* UT21920	Ammonia copper lead	X X X		Logan City Corporation	December 8, 1998
Mill Race to Utah Lake* UT21717	Ammonia TRC BOD_5 DO	X X X X		Provo City Corporation WWTP	December 8, 1998

APPROVED POINT SOURCE TMDLs					
Waterbody Name	**TMDL Parameter/ Pollutant**	**Section 303(d)(1) TMDL**	**Section 303(d)(3) TMDL**	**Point Source**	**Approval Date**
Blue Lakes*	Ammonia	X		Grantsville City WWTF	January 4, 1999
Bear River*	Ammonia	X		Perry City WWTF	March 4, 1999
Ferron Creek / San Rafael River	Ammonia TRC	X X		Ferron Lagoons UT0020052	June 29, 1999
Quitchupah Creek / Muddy Creek*	Total Iron	X		Consolidation Coal Company UT0022616	June 29, 1999
Chalk Creek/Weber River	Ammonia	X		Coalville City Corporation UT0021288	August 19, 1999
Montezuma Creek/ San Juan River	Ammonia	X		Monticello Water Reclamation UT0024503	August 19, 1999
Utah Lake*	TDS Ammonia	X X		Geneva Steel UT0000361	September 23, 1999
Eccles Creek/Mud Creek/Scofield Res., UP Canyon Creek	TDS Iron	X X		Skyline Mine - Canyon Fuel Co. Outfall 001 UT0023540	September 23, 1999
Utah Lake*	TRC Ammonia	X X		Timpanogos Special Service District UT0023639	November 15, 1999
Bear River*/Great Salt Lake*	DO	X		City of Corinne UT0020931	November 15, 1999
Weber River*	DO	X		Town of Henefer UT0020192	November 15, 1999
Weber River*	TRC	X		Morgan City UT20893	April 18, 2000
Weber River*	TRC	X		Mountain Green WWTF UT24732	April 18, 2000
Box Elder Creek	TRC Ammonia	X X		Brigham City Corp. WWTP UT0022365	August 14, 2000
Cottonwood Creek/ San Rafael River*	Ammonia TRC DO	X X X		Castle Dale WWTF UT0023663	August 14. 2000
Crandall Creek/ Huntington Creek	Iron (Total) DO	X X		Genwal Resources, Inc. UT0024368	“
Ashley Creek*/Green River/Colorado River	Selenium Ammonia	X X		Ashley Valley Water Reclamation Facility UT0025348	November 28, 2000

APPROVED POINT SOURCE TMDLs					
Waterbody Name	**TMDL Parameter/ Pollutant**	**Section 303(d)(1) TMDL**	**Section 303(d)(3) TMDL**	**Point Source**	**Approval Date**
San Pitch River*/Sevier River	TRC Ammonia	X X		Moroni Feed Company UT0020222	November 28, 2000

APPROVED NON-POINT SOURCE TMDLs

Waterbody Name	TMDL Parameter/ Pollutant	Water Quality Goal/Endpoint	TMDL	Reference Document(s)	Approval Date
Otter Creek *Otter Creek Reservoir to Koosharem Res.*	phosphorus DO sediments coliforms	increase fish production to 150-200 pds/acre restore trout fishery to full potential 500 coliforms count/100ml Macroinvertebrate indices	93,000 tons/year sediment reduction decrease sediment along 30 miles of streambank/channel 25% decrease in nutrient loading	Otter Creek/Koosharem Watershed PIPs FY93 FY94 FY95 FY96 FY97	December 23, 1997
Chalk Creek	sediment phosphorus stream habitat loss riparian habitat loss	coliform<5,000 #/ml 195 pd/acre fish production Macroinvertebrate indices	130,000 tons/yr sediment recution (rangeland) 8,200 tons/year sediment reduction (stream channel/stream bank)	Chalk Creek Watershed Project Implementation Plan FY93 FY95 FY96 FY97	December 23, 1997
Bear River	dissolved total phosphorus	0.05 mg/l dissolved total phosphorus	See table 4-8 giving median flow TMDLs for DTP	Lower Bear River Water Quality Management Plan (ERI and Bear River RC&D) November 1995	December 23, 1997
East Canyon Creek*	phosphorus	**P**0.04 mg/l total phosphorus above WWTP **P**0.05 mg/ TP below WWTP **P**DO at or above Utah WQS **P**Macrophyte growth less than 50%	58% reduction in ambient phosphorus concentration	**P**TMDL for East Canyon Creek (UTDEQ/DWQ); April 1, 2000) **P**East Canyon Reservoir, Diag. Feasibility Clean Lakes Study (UTDEQ/DWQ; 1999) **P**East Canyon Watershed NPS Pollution Water Quality Study (BIO/West, Inc. Jan 3, 2000) **P**Nutrient TMDL for East Canyon Creek, UT, (Tetra Tech; Jan. 25, 00)	May 23, 2000
East Canyon Reservoir*	phosphorus	**P**0.025 mg/l total phosp. **P**DO > or = 4.0 mg/l in >50% of water column **P**seasonal TSI 40-50 **P**Annual P load equivalent to annual flow with 0.05 mg/l concentration.	5,647 lbs/year total phosporus	**P**TMDL for East Canyon Creek (UTDEQ/DWQ); April 1, 2000) **P**East Canyon Reservoir, Diag. Feasibility Clean Lakes Study (UTDEQ/DWQ; 1999) **P**East Canyon Watershed NPS Pollution Water Quality Study (BIO/West, Inc. Jan 3, 2000)	May 23, 2000
Mantua Reservoir*	phosphorus	**P**25 ug/l total phosphorus **P**DO & pH State Stds.	629.3 kg/yr total phosphorus	**P**Mantua Reservoir TMDL (UTDEQ/DWQ; April 1, 2000) **P**Diag. & Feasibility Report on Mantua Reservoir (Mountainland AOG, Bear River AOG, UTDEQ, 11/15/98)	May 23, 2000

APPROVED NON-POINT SOURCE TMDLs

Waterbody Name	TMDL Parameter/ Pollutant	Water Quality Goal/Endpoint	TMDL	Reference Document(s)	Approval Date
Little Bear River from Cutler Reservoir to Hyrum Reservoir*	phosphorus	•0.05 mg/l total phosphorus •25% reduction of cropland runoff •10 miles of restored streambank •BMP's installed on 7500 acres designated as critical	9.0 kg/day above Cutler Reservoir total phosphorus	•Little Bear River Watershed TMDL (UTDEQ/DWQ; April 1, 2000) •Little Bear River Water Quality Mgmt. Plan (ERI and Bear River RC&D; November 1995)	May 23, 2000
Little Bear River from Hyrum Reservoir to East Fork of Little Bear River*	phosphorus	•0.05 mg/l total phosphorus •25% reduction of cropland runoff •10 miles of restored streambank •BMP's installed on 7500 acres designated as critical	6.0 kg/day above Hyrum total phosphorus	•Little Bear River Watershed TMDL (UTDEQ/DWQ; April 1, 2000) •Little Bear River Water Quality Mgmt. Plan (ERI and Bear River RC&D; November 1995)	May 23, 2000
Scofield Reservoir*	phosphorus	•Shift in phytoplankton dominance from blue-green algae •DO level of not less than 4.0 mg/l in 50% of water column •TSI values 40-50	4,842 kg/yr total phosphorus	•Scofield Reservoir TMDL (UT DEQ/DWQ: April 1, 2000) •Scofield Reservoir Phase I Clean Lakes Study (UDH/DEH/BWPC; 1983) •Scofield Reservoir Restoration Through Phosphorus Control (UTDEQ/DWQ; 1990)	May 23, 2000
Beaver River and tributaries from Minersville Reservoir to the headwaters*	phosphorus	•0.05 mg/l total phosphorus in stream shift in phytoplankton dominance from blue-green algae •shift from sediment/organic enirchment-tolerant macroinvertabrates in Beaver River •24 miles streambank stabilized and 65 miles riparian restored	2353 kg/yr total phosphorus	•Beaver River Watershed TMDL (UTDEQ/DWQ; Apr 1,2000) •Phase I: EPA Clean Lakes Study, Diagnostic and Report, Minersville Reservoir (BYU, Five County AOG, UTDEQ; February 1995) •(DRAFT) Beaver River Watershed Coordinated Resource Management Plan (March 1999 version)	May 23, 2000
Minersville Rerservoir*	phosphorus	•0.025 mg/l total phosphorus •TSI of 40-50 shift from blue-green algal dominance •DO >4.0 mg/l as one day average for >50% of water column	2710 kg/yr total phosphorus	•Beaver River Watershed TMDL (UTDEQ/DWQ; Apr 1,2000) •Phase I: EPA Clean Lakes Study, Diagnostic and Report, Minersville Reservoir (BYU, Five County AOG, UTDEQ; February 1995) •(DRAFT) Beaver River Watershed Coordinated Resource Management Plan (March 1999 version)	May 23, 2000

APPROVED NON-POINT SOURCE TMDLs

Waterbody Name	TMDL Parameter/ Pollutant	Water Quality Goal/Endpoint	TMDL	Reference Document(s)	Approval Date
Kents Lake*	phosphorus	•0.025 mg/l total phosphorus •TSI of 40-50 shift from blue-green algal dominance •DO >4.0 mg/l as one day average for >50% of water column	20 kg/yr total phosphorus	•Beaver River Watershed TMDL (UTDEQ/DWQ; Apr 1,2000) •Phase I: EPA Clean Lakes Study, Diagnostic and Report, Minersville Reservoir (BYU, Five County AOG, UTDEQ; February 1995) •(DRAFT) Beaver River Watershed Coordinated Resource Management Plan (March 1999 version)	May 23, 2000
LaBaron Lake*	phosphorus	•0.025 mg/l total phosphorus •TSI of 40-50 shift from blue-green algal dominance •DO >4.0 mg/l as one day average for >50% of water column	5 kg/yr total phosphorus	•Beaver River Watershed TMDL (UTDEQ/DWQ; Apr 1,2000) •Phase I: EPA Clean Lakes Study, Diagnostic and Report, Minersville Reservoir (BYU, Five County AOG, UTDEQ; February 1995) •(DRAFT) Beaver River Watershed Coordinated Resource Management Plan (March 1999 version)	May 23, 2000
Puffer Lake*	phosphorus	•0.025 mg/l total phosphorus •TSI of 40-50 shift from blue-green algal dominance •DO >4.0 mg/l as one day average for >50% of water column	19 kg/yr total phosphorus	•Beaver River Watershed TMDL (UTDEQ/DWQ; Apr 1,2000) •Phase I: EPA Clean Lakes Study, Diagnostic and Report, Minersville Reservoir (BYU, Five County AOG, UTDEQ; February 1995) •(DRAFT) Beaver River Watershed Coordinated Resource Management Plan (March 1999 version)	May 23, 2000

APPROVED NON-POINT SOURCE TMDLs

Waterbody Name	TMDL Parameter/ Pollutant	Water Quality Goal/Endpoint	TMDL	Reference Document(s)	Approval Date
East Canyon Creek*	Phosphorus Dissolved Oxygen	#0.04 mg/l total phosphorus above WWTP #0.05 mg/l total phosphorus below WWTP # DO at or above Utah WQS #macrophyte growth limited to less than 50%	58% reduction in ambient phosporus concentration	#TMDL for East Canyon Creek (UTDEQ/DWQ; April 1, 2000) #East Canyon Reservoir, Diagnostic Feasibility Clean Lakes Study (UTDEQ/DWQ; 1999) #East Canyon Watershed Nonpoint Source Pollutio Water Quality Study (BIO/WEST, Inc; Jan. 3, 2000) #"Nutrient TMDL for East Canyon Creek, Utah " (Tetra Tech; Jan. 25. 2000) #"East Canyon Creek TMDL Addendum"; (UTDEQ; 7/20/2000)	September 1, 2000
East Canyon Reservoir*	Phosphorus Dissolved Oxygen	#0.025 mg/l TP #DO at or above 4.0 mg/l in >50% of water column #seasonal TSI between 40 and 50 #annual TP load equivalent to annual flow with 0.05 mg/l concentration	5,647 lbs/year total phosphorus	#TMDL for East Canyon Reservoir (UTDEQ/DWQ; April 1, 2000) #East Canyon Reservoir, Diagnostic Feasibility Clean Lakes Study (UTDEQ/DWQ; 1999) #East Canyon Watershed Nonpoint Source Pollutio Water Quality Study (BIO/WEST, Inc; Jan. 3, 2000) #"Addendum for the linkage between lake/reservoir oxygen depletion and nutrients for Scofield Reservoir, East Canyon Reservoir, Minersville Reservoir, Kents Lake, LaBaron Reservoir, Mantua Reservoir, and Puffer Lake"; (UTDEQ)	September 1, 20000
Mantua Reservoir*	Phosphorus	#25 ug/l TP #meet DO and pH standards established by the State	629.3 kg/yr total phosphorus	#Mantua Reservoir TMDL (UTDEQ/DWQ; April 1, 2000) #Diagnostic and Feasibility Report on Mantua Reservoir (Mountainland AOG, Bear River AOG, UTDEQ; November 15, 1998)	September 1, 2000

APPROVED NON-POINT SOURCE TMDLs

Waterbody Name	TMDL Parameter/ Pollutant	Water Quality Goal/Endpoint	TMDL	Reference Document(s)	Approval Date
Little Bear River from Cutler Reservoir to Hyrum Reservoir*	phosphorus	#0.05 mg/l TP #25% reduction in cropland runoff #10 miles of restored streambank #BMPs installed on 7500 acres designed as critical	9.0 kg/day above Cutler Reservoir 6.0 kg/day above Hyrum total phosphorus	#Little Bear Watershed TMDL (UTDEQ/DWQ; April 1, 2000) #Little Bear River Water Quality Management Plan (ERI and Bear River RC&D; November 1995)	September 1, 2000
Little Bear from Hyrum Reservoir to East Fork of Little Bear River	phosphorus	#0.05 mg/l TP #25% reduction in cropland runoff #10 miles of restored streambank #BMPs installed on 7500 acres designed as critical	9.0 kg/day above Cutler Reservoir 6.0 kg/day above Hyrum total phosphorus	#Little Bear Watershed TMDL (UTDEQ/DWQ; April 1, 2000) #Little Bear River Water Quality Management Plan (ERI and Bear River RC&D; November 1995)	September 1, 2000
Scofield Reservoir*	phosporus dissolved oxygen	#shift in phytoplankton dominance from blue-green algae #dissolved oxygen level of not less than 4.0 mg/l in 50% of water column #TSI values between 40-50	4,842 kg/year total phosphorus	#Scofield Reservoir TMDL (UTDEQ/DWQ; April 1, 2000) #Scofield Reservoir Phase I Clean Lakes Study (UDH/DEH/BWPC; 1983) #Scofield Reservoir Restoration through Phosphorus Control (UTDEQ/DWQ; 1990) #"Addendum for the linkage between lake/reservoir oxygen depletion and nutrients for Scofield Reservoir, East Canyon Reservoir, Minersville Reservoir, Kents Lake, LaBaron Reservoir, Mantua Reservoir, and Puffer Lake"; (UTDEQ)	September 1, 2000
Beaver River and tributaries from Minersville Reservoir to the headwaters*	phosphorus temperature	#0.05 mg/l TP in stream #shift in phytoplankton dominance from blue-green algae #shift from sediment/organic enrichment-tolerant macroinvertebrates in Beaver River #24 miles streambank stabilized and 65 miles riparian areas restored	2,353 kg/yr total phosphorus	#Beaver River Watershed TMDL (UTDEQ/DWQ; April 1, 2000) #Phase 1: EPA Clean Lakes Study, Diagnostic and Feasibility Report, Minersville Reservoir (Brigham Young University, Five County AOG, UTDEQ, February 1995) #(Draft) Beaver River Watershed Coordinated Resource Management Plan (March 1999 version) #Beaver River Watershed TMDL Addendum (UTDEQ)	September 1, 2000

APPROVED NON-POINT SOURCE TMDLs					
Waterbody Name	**TMDL Parameter/ Pollutant**	**Water Quality Goal/Endpoint**	**TMDL**	**Reference Document(s)**	**Approval Date**
Minersville Reservoir*	phosphorus dissolved oxygen	#0.025 mg/l TP #TSI of 40-50 #shift from blue-green algal dominance #DO >4.0 mg/l as one day average for >50% of lake water column	2,710 kg/yr total phosphorus	#Beaver River Watershed TMDL (UTDEQ/DWQ; April 1, 2000) #Phase 1: EPA Clean Lakes Study, Diagnostic and Feasibility Report, Minersville Reservoir (Brigham Young University, Five County AOG, UTDEQ, February 1995) #(Draft) Beaver River Watershed Coordinated Resource Management Plan (March 1999 version) #"Addendum for the linkage between lake/reservoir oxygen depletion and nutrients for Scofield Reservoir, East Canyon Reservoir, Minersville Reservoir, Kents Lake, LaBaron Reservoir, Mantua Reservoir, and Puffer Lake"; (UTDEQ)	September 1, 2000
Kents Lake*	phosphorus dissolved oxygen	#0.025 mg/l TP #TSI of 40-50 #shift from blue-green algal dominance #DO >4.0 mg/l as one day average for >50% of lake water column	20 kg/yr total phosphorus	#Beaver River Watershed TMDL (UTDEQ/DWQ; April 1, 2000) #Phase 1: EPA Clean Lakes Study, Diagnostic and Feasibility Report, Minersville Reservoir (Brigham Young University, Five County AOG, UTDEQ, February 1995) #(Draft) Beaver River Watershed Coordinated Resource Management Plan (March 1999 version) #"Addendum for the linkage between lake/reservoir oxygen depletion and nutrients for Scofield Reservoir, East Canyon Reservoir, Minersville Reservoir, Kents Lake, LaBaron Reservoir, Mantua Reservoir, and Puffer Lake"; (UTDEQ)	September 1, 2000

APPROVED NON-POINT SOURCE TMDLs					
Waterbody Name	**TMDL Parameter/ Pollutant**	**Water Quality Goal/Endpoint**	**TMDL**	**Reference Document(s)**	**Approval Date**
La Baron Lake*	phosphorus dissolved oxygen	#0.025 mg/l TP #TSI of 40-50 #shift from blue-green algal dominance #DO >4.0 mg/l as one day average for >50% of lake water column	5 kg/yr total phosphorus	#Beaver River Watershed TMDL (UTDEQ/DWQ; April 1, 2000) #Phase 1: EPA Clean Lakes Study, Diagnostic and Feasibility Report, Minersville Reservoir (Brigham Young University, Five County AOG, UTDEQ, February 1995) #(Draft) Beaver River Watershed Coordinated Resource Management Plan (March 1999 version) #"Addendum for the linkage between lake/reservoir oxygen depletion and nutrients for Scofield Reservoir, East Canyon Reservoir, Minersville Reservoir, Kents Lake, LaBaron Reservoir, Mantua Reservoir, and Puffer Lake"; (UTDEQ)	September 1, 2000
Puffer Lake*	phosphorus dissolved oxygen	#0.025 mg/l TP #TSI of 40-50 #shift from blue-green algal dominance #DO >4.0 mg/l as one day average for >50% of lake water column	19 kg/yr total phosphorus	#Beaver River Watershed TMDL (UTDEQ/DWQ; April 1, 2000) #Phase 1: EPA Clean Lakes Study, Diagnostic and Feasibility Report, Minersville Reservoir (Brigham Young University, Five County AOG, UTDEQ, February 1995) #(Draft) Beaver River Watershed Coordinated Resource Management Plan (March 1999 version) #"Addendum for the linkage between lake/reservoir oxygen depletion and nutrients for Scofield Reservoir, East Canyon Reservoir, Minersville Reservoir, Kents Lake, LaBaron Reservoir, Mantua Reservoir, and Puffer Lake"; (UTDEQ)	September 1, 2000