Chapter 2.6 Utah Lake-Jordan River Watershed Management Unit Assessment

2.6.1 Introduction

The Utah Lake-Jordan River Watershed Management Unit lies in north-central Utah and includes those streams that drain into Utah Lake and the Jordan River and its tributaries from Utah Lake to the Great Salt Lake. Utah Lake receives water from the Provo and Spanish Fork Rivers, and numerous tributaries that drain the Wasatch Mountains around it. In addition, the Duchesne Tunnel and Weber River diversions empty into the Provo River and a third diversion carries Strawberry Reservoir water into the lake via Diamond Fork and Spanish Fork Rivers. There are numerous streams that drain the Wasatch and Oquirrh Mountain ranges that flow into the Jordan River. Some of these streams are Little Cottonwood Creek, Big Cottonwood Creek, and Bingham Canyon Creek.

This management unit includes all streams located in the U.S.G.S Hydrological Units (HUCs) listed in Table 2.6.11 and is located in the north central part of the state.

Table 2.6.1. Hydrological Unit Codes and Names					
Hydrological Unit Code	Hydrological Unit Name				
16020201	Utah Lake				
16020202	Spanish Fork				
16020203	Provo				
16020204	Jordan				

2.6.2 Water Quality Assessment Results

Assessments were made using data from January 1, 2002 through December 31, 2007. The intensive survey data were used in the 2006 assessment. The majority of the Jordan River / Utah Lake Watershed is monitored annually. The DWQ, Salt Lake City, Salt Lake County, United States Geological Survey and the Provo River Committee collect data annually for a variety of reasons. These data are compared to the State standards to determine beneficial use support. In addition, benthic macroinvertebrate data are used to assess the aquatic life beneficial use classification (Chapter 2.15). The designated beneficial use for rivers and streams is mapped in Figure 2.6.2

2.6.2.1 Overall Beneficial Use Support --There are an estimated 1,314 perennial stream miles within the Utah Lake-Jordan River Watershed Management Unit. Of the miles assessed, 842.7 (79.2%) are supporting at least one beneficial use, 221.8 (20.8%) miles were not supporting at least one designated beneficial use Figure 2.6.1).

2.6.2.2 Beneficial Use Assessment By Categories-A list of the categories and the stream miles included in each of the assessment categories is in Table 2.6.2. Figure 2.6.3 is a map of the beneficial use assessment for the rivers and streams.

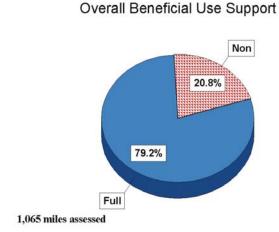


Figure 2.6.1. Overall Beneficial Use Support

Table	Table 2.6.2. Stream Miles By Assessment Category – Jordan River/Utah Lake Watershed Management Unit.									
Category										
1	All beneficial uses assessed, all fully supported.	47.3								
2	Beneficial uses assessed are fully supported.	795.3								
3A	No data or insufficient data to make an assessment.	118.8								
3B	Lakes that are not supported for one cycle only.									
3C	Insufficient data to assess but an assessment plan is in place.	0.0								
4A	Approved TMDL	40.0								
	Pollution control requirements are expected to result in full									
4B	beneficial use support in near future.	0.0								
4C	Impaired by pollution, no TMDL required.	32.5								
5	Impaired by pollutant, TMDL required.	170.9								

2.6.2.3 Individual Use Support --Of the streams assessed for aquatic life, 842.7 miles (79.2 %) are supporting and 221.8 miles (20.8%) are not supporting the beneficial use. Of the 953.6 stream miles assessed for agricultural use miles (95.3%) are fully supporting and 44.6 miles (4.7%) are not supporting their agricultural beneficial use classification. Of the Class 1C waters (source of drinking water), 432.7 miles (99.1%) are fully supporting and 4.1 miles (0.9%) are not supporting this beneficial use. Of the 118.0 miles assessed for secondary contact and swimming, 96.9 miles (82.1%) are fully supporting these beneficial uses and 21.1 miles (17.9%) are not. Agricultural waters assessed as fully supporting and not supporting were 842.7 miles (95.3%) and 44.6 miles (4.7%) respectively.

Table 2.6.3 Individual Beneficial Use Support Summary Jordan River/Utah Lake Watershed Management Unit (Stream Miles)

	Size	Size Fully	Size Not	
	Assessed	Supporting	Supporting	Totals
Use				
Aquatic Life	1,064.5	842.7	221.8	1061.2
Fish Consumption	0.0	0.0	0.0	0.0
Swimming	118.0	96.9	21.1	114.7
Secondary Contact	118.0	96.9	21.1	114.7
Drinking Water	432.7	428.6	4.1	432.7
Agricultural	953.6	909.0	221.8	962.9
Use				
Aquatic Life		79.2%	20.8%	100.0%
Fish Consumption		0.0%	0.0%	0.0%
Swimming		82.1%	82.1%	100.0%
Secondary Contact		82.1%	82.1%	100.0%
Drinking Water	-	99.1%	0.9%	100.0%
Agricultural		95.3%	4.7%	100.0%

2.6.2.4 Total Waters Impaired by Various Causes- The causes of impairment are listed in Table 2.6.4. The causes of impairment are thermal modifications, flow and habitat alterations, total dissolved solids, metals, nutrients (total phosphorus), sediments, dissolved oxygen, and pathogens. The percent of miles impacted are illustrated in Figure 2.6.4. The relative contribution of each cause to water quality impairment is illustrated in Figure 2.6.5.

2.6.2.5 Total Waters Impaired by Various Sources- The major sources of impairment are unknown sources, hydromodification, urban runoff, industrial and municipal point sources, habitat modifications, agricultural activities, resource extraction and natural sources illustrated in Figure 2.6.6. The relative percent impairment by sources is illustrated in Figure 2.6.7.

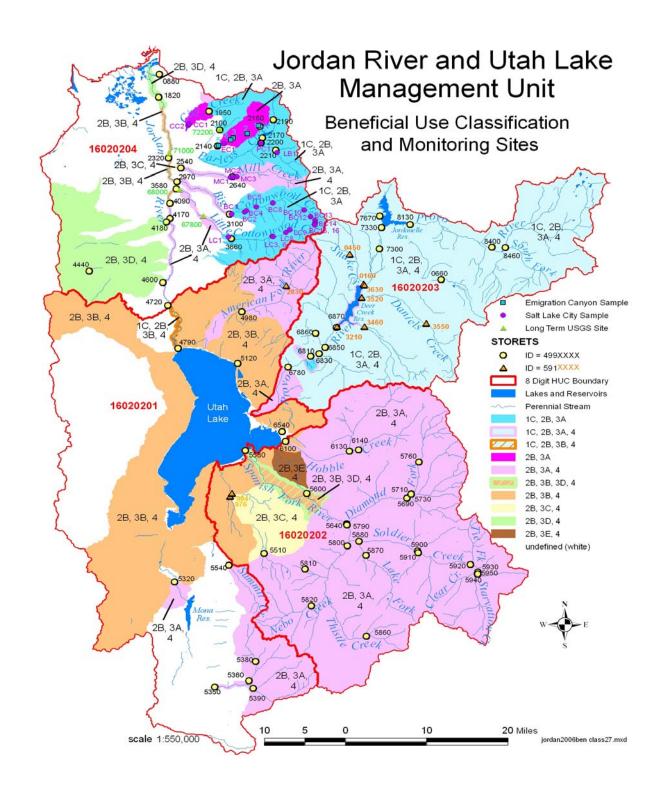


Figure 2.6.2. Beneficial use classifications – Jordan River/Utah Lake Watershed Management Unit.

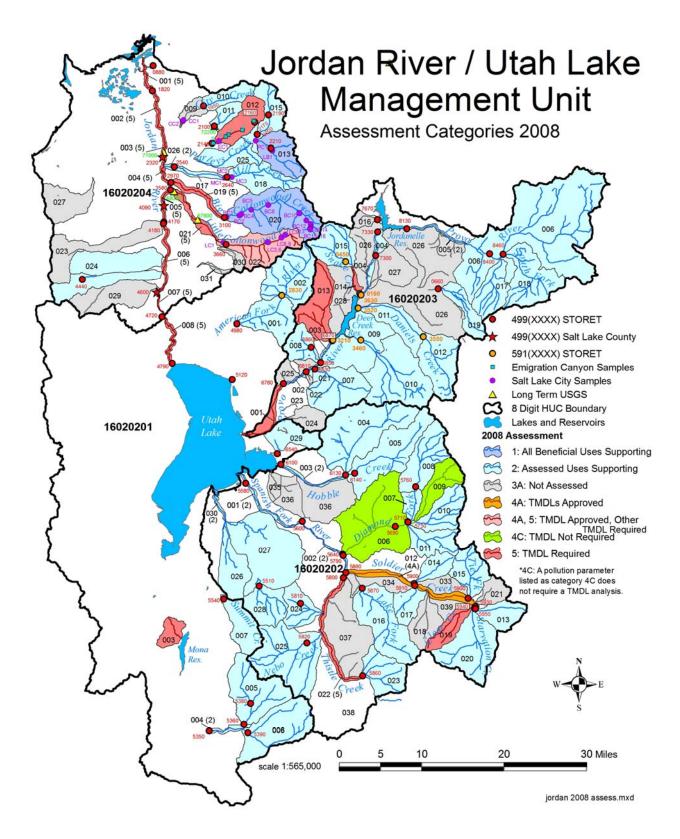


Figure 2.6.3. Beneficial use assessment by category – Jordan River/Utah Lake Watershed Management Unit.

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Table 2.6.4. Total Waters Impaired by Various Cause Categories - Jordan River/Utah Lake Watershed Management Unit.

Cause Category	Stream Miles
Cause unknown	0.0
Unknown toxicity	0.0
Pesticides	0.0
Priority organics	0.0
Nonpriority organics	0.0
Metals	25.6
Ammonia	0.0
Chlorine	0.0
Other inorganics	0.0
Nutrients	22.7
рН	3.4
Siltation/Sediments	18.5
Organic enrichment/low DO	16.3
Salinity/TDS/Chlorides	41.2
Thermal modifications	55.0
Flow alterations	32.5
Other habitat alterations	32.5
Pathogen Indicators	17.7
Radiation	0.0
Oil and grease	0.0
Taste and odor	0.0
Noxious aquatic plants	0.0
Total toxics	0.0
Turbidity	0.0
Benthic Macroinvertebrates	0.0
Other (specify)	0.0

Table 2.6.5. Total Waters Impaired by Various

Sources - Jordan River/Utah Lake Watershed Management Unit.						
Source Category	Stream Miles					
Industrial Point Sources	34.6					
Municipal Point Sources	34.6					
Combined Sewer Overflow	0.0					
Agriculture	48.8					
Silviculture	0.0					
Construction	0.0					
Urban Runoff/Storm Sewers	61.7					
Resource Extraction	21.5					
Land Disposal	0.0					
Hydromodification	51.0					
Habitat Modification	32.5					
Marinas	0.0					
Atmospheric Deposition	0.0					
Contaminated Sediments	0.0					
Unknown Source	153.0					
Natural Sources	27.1					
Reservoir Releases	0.0					
Recreation	0.0					
Aquaculture	0.0					
Extreme Drought	0.0					

Percent of Stream Miles Affected By Causes

2008 Integrated Report Assessment - Jordan River/Utah Lake

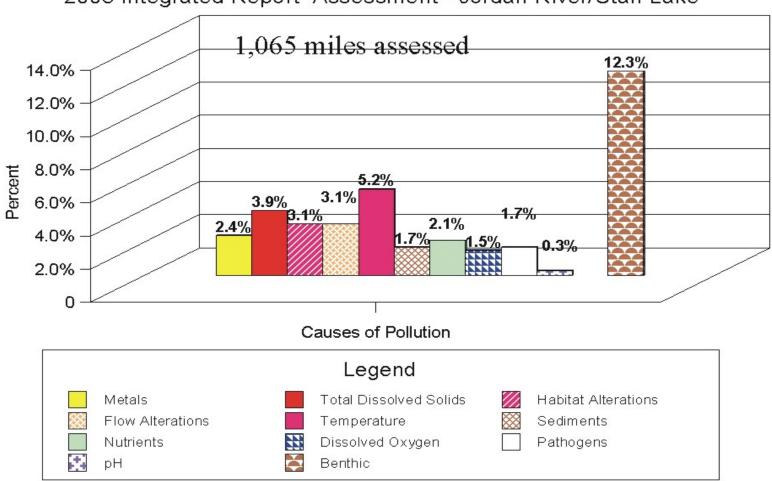


Figure 2.6.4. Percent of stream miles impacted by various causes – Jordan River / Utah Lake Watershed Management Unit.

Causes of Stream Water Quality Impairments

2008 Integrated Report Assessment - Jordan River / Utah Lake

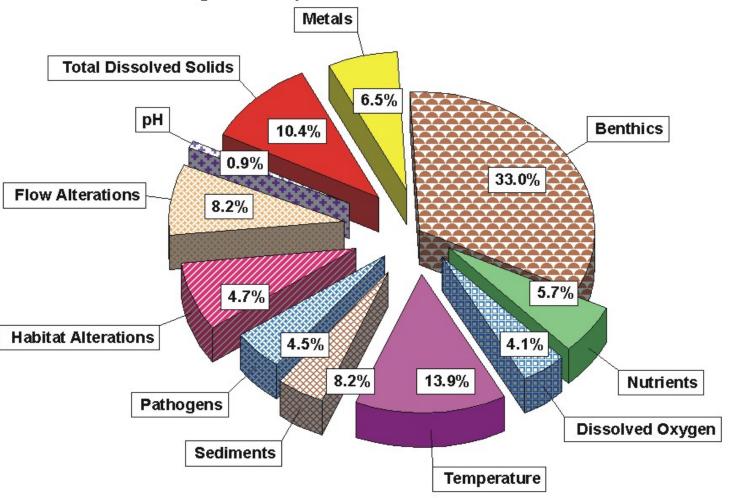


Figure 2.6.5. Relative percent impacted by causes on water quality – Jordan River / Utah Lake Watershed Management Unit.

Percent of Stream Miles Affected By Sources

2008 Integrated Report Assessement - Jordan River / Utah Lake

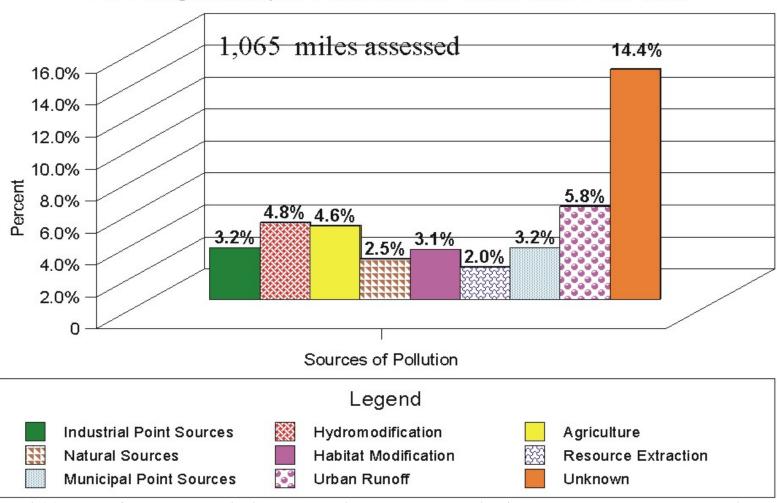


Figure 2.6.6. Percent of assessed stream miles impacted by various sources – Jordan River / Utah Lake Watershed Management Unit.

Sources of Stream Water Quality Impairment

2008 Integrated Report Assessment - Jordan River / Utah Lake

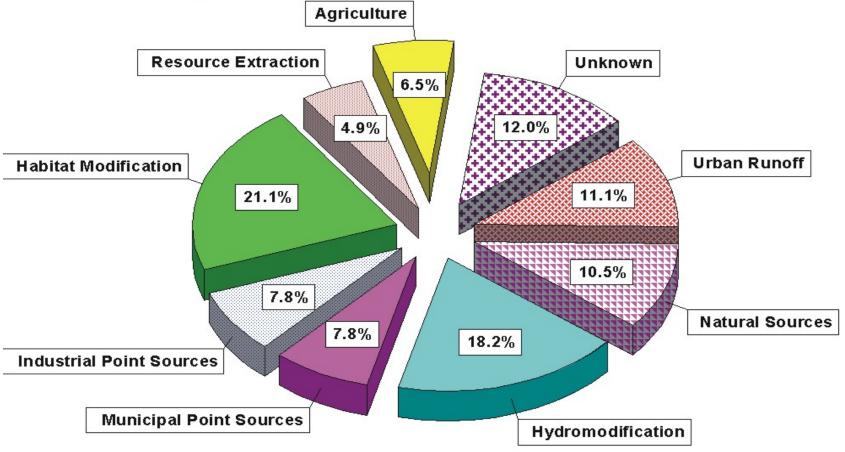


Figure 2.6.7. Relative percent impact by various sources on water quality – Jordan River / Utah Lake Watershed Management Unit.

	Table 2	2.6.6. Impaired Waters	Located in the Jord	lan/Utah Lake Waters	hed Managemer	it Unit.	
Assessment	Assessment	Assessment	Beneficial Use	Beneficial		Pollutant	
Unit	Unit	Unit	Class	Use	Support	Or	Stream
ID	Name	Description	Impaired	Support	Category	Pollution	Miles
		Little Cottonwood					
		Creek and tributaries					
	Little Cottonwood	from Metropolitan					
UT16020204-022	Creek-2	WTP to headwaters	3A	NS	4A	Zinc	21.49
		Soldier Creek from					
		confluence with					
		Thistle Creek to					
LIT1/020202 012	C-14: C1- 1	confluence of	2 4	NC	4.4	C:14-4:	18.46
UT16020202-012	Soldier Creek-1	Starvation Creek	3A	NS	4A	Siltation	18.40
		Diamond Fork Creek and tributaries from					
		confluence with					
		Spanish Fork River to					
		Sixth Water					
UT16020202-006	Diamond Fork-1	confluence	3A	NS	4C	Flow Alteration	20.06
C110020202 000	Diamond Fork 1	Diamond Fork Creek	3/1	110	10	Tiow fineration	20.00
		and tributaries from					
		confluence with					
		Spanish Fork River to					
		Sixth Water					
UT16020202-006	Diamond Fork-1	confluence	3A	NS	4C	Other Habitat Alterations	20.06
		Diamond Fork Creek					
		and tributaries from					
		confluence with					
		Spanish Fork River to					
		Sixth Water					
UT16020202-006	Diamond Fork-1	confluence	3A	NS	4C	Other Habitat Alterations	20.06
		Sixth Water Creek and					
		tributaries except Fifth					
		Water and First Water					
		Creeks and tributaries					
		from confluence with					
UT16020202-009	Sixth Water Creek	Diamond Fork Creek to headwaters	3A	NS	4C	Flow Alteration	12.45
U110020202-009	Sixiii water Creek		3A	NS	40	Flow Alteration	12.43
		Sixth Water Creek and tributaries except Fifth					
		Water and First Water					
		Creeks and tributaries					
		from confluence with					
		Diamond Fork Creek					
UT16020202-009	Sixth Water Creek	to headwaters	3A	NS	4C	Other Habitat Alterations	12.45
	The state of the s	Current Creek from	*	- 10		111011111111	12.13
		mouth of Goshen					
UT16020201-003	Currant Creek	Canyon to Mona	2B	NS	5	pН	3.44

Assessment		2.6.6. Impaired Waters		Beneficial			
Unit	Assessment Unit	Assessment Unit	Beneficial Use	Use	C	Pollutant Or	C4
			Class		Support		Stream
ID	Name	Description	Impaired	Support	Category	Pollution	Miles
		Reservoir					
		Current Creek from					
		mouth of Goshen					
		Canyon to Mona					
UT16020201-003	Currant Creek	Reservoir	3A	NS	5	pН	3.4
		Current Creek from					
		mouth of Goshen					
		Canyon to Mona					
UT16020201-003	Currant Creek	Reservoir	3A	NS	5	Temperature	3.4
		Current Creek from					
		mouth of Goshen					
		Canyon to Mona					
UT16020201-003	Currant Creek	Reservoir	3A	NS	5	pН	3.4
		Current Creek from					
		mouth of Goshen					
		Canyon to Mona					
UT16020201-003	Currant Creek	Reservoir	4	NS	5	pН	3.4
		Jordan River from					
UT16020201-008	Jordan River-8	Narrows to Utah Lake	3A	NS	5	Temperature	14.1:
						Benthic	
		Jordan River from				Macroinvertebrate	
UT16020201-008	Jordan River-8	Narrows to Utah Lake	3A	NS	5	Assessment Impairment	1.4.1
0110020201-008	Jordan Kiver-8		3A	NS	3	Assessment impairment	14.1
		Jordan River from					
UT16020201-008	Jordan River-8	Narrows to Utah Lake	4	NS	5	Salinity/TDS/Chlorides	14.1
		Clear Creek and					
		tributaries from					
		confluence with				Benthic	
		Soldier Creek to				Macroinvertebrate	
UT16020202-019	Clear Creek	headwaters	3A	NS	5	Assessment Impairment	12.6
		Thistle Creek from					
		confluence with					
		Soldier Creek to				Benthic	
LUTT1 <0000000 000		confluence with Little				Macroinvertebrate	
UT16020202-022	Thistle Creek-1	Clear Creek	3A	NS	5	Assessment Impairment	18.23
		Provo River from Utah				Benthic	
		Lake to Murdock				Macroinvertebrate	
UT16020203-001	Provo River-1	Diversion	3A	NS	5	Assessment Impairment	10.20

Unit			2.6.6. Impaired Waters			shed Managemer		
D Name	Assessment	Assessment	Assessment	Beneficial Use	Beneficial		Pollutant	
Provo Deer Creek and tributaries from confluence with Provo River to headwaters 3A NS 5 Assessment Impairment	Unit	Unit	Unit	Class	Use		Or	Stream
UT16020203-013 Provo Deer Creek River to headswaters Snake Creek from confluence with Provo River to headswaters Snake Creek from confluence with Provo River to Wassatch Mountain State Park Golf Course IC NS 5 Arsenic	ID	Name	Description	Impaired	Support	Category	Pollution	Miles
UT16020203-013 Provo Deer Creek River to headswaters Snake Creek from confluence with Provo River to headswaters Snake Creek from confluence with Provo River to Wassatch Mountain State Park Golf Course IC NS 5 Arsenic			Provo Deer Creek and					
UT16020203-013 Provo Deer Creek River to headwaters SA NS 5 Assessment Impairment							Benthic	
Snake Creek from confluence with Provo River to Wasatch Mountain State Park Golf Course			confluence with Provo				Macroinvertebrate	
Confluence with Provo River to Wastach Mountain State Park Golf Course	UT16020203-013	Provo Deer Creek	River to headwaters	3A	NS	5	Assessment Impairment	19.14
River to Wasatch			Snake Creek from					
Mountain State Park Golf Course 1C NS 5 Arsenic			confluence with Provo					
UT16020203-014 Snake Creek-1			River to Wasatch					
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Jordan River from Davis County line upstream to North UT16020204-002 Jordan River-2 Temple Street 3B NS 5 Assessment Impairment UT16020204-002 Jordan River-2 Temple Street 3B NS 5 DO UT16020204-002 Jordan River-2 Temple Street 3B NS 5 DO Jordan River-2 Temple Street 3B NS 5 DO								
Davis County line upstream to North UT16020204-002 Jordan River-2 Temple Street 3B NS 5 Assessment Impairment Jordan River from Davis County line upstream to North UT16020204-002 Jordan River-2 Temple Street 3B NS 5 DO UT16020204-002 Jordan River-2 Temple Street 3B NS 5 DO Jordan River from North Temple to 2100	UT16020204-002	Jordan River-2	Temple Street	2B	NS	5	E. coli	4.46
Davis County line upstream to North UT16020204-002 Jordan River-2 Temple Street 3B NS 5 Assessment Impairment Jordan River from Davis County line upstream to North UT16020204-002 Jordan River-2 Temple Street 3B NS 5 DO UT16020204-002 Jordan River-2 Temple Street 3B NS 5 DO Jordan River from North Temple to 2100			Iandan Diyan fuam					
UT16020204-002 Jordan River-2 Temple Street 3B NS 5 Assessment Impairment Jordan River from Davis County line upstream to North UT16020204-002 Jordan River-2 Temple Street 3B NS 5 DO Jordan River-2 Temple Street 3B NS 5 DO Jordan River-2 Temple Street 3B NS 5 DO							Ponthia	
UT16020204-002 Jordan River-2 Temple Street 3B NS 5 Assessment Impairment Jordan River from Davis County line upstream to North UT16020204-002 Jordan River-2 Temple Street 3B NS 5 DO Jordan River-2 Temple Street 3B NS 5 DO Jordan River from North Temple to 2100			-					
UT16020204-002 Jordan River-2 Temple Street 3B NS 5 DO Jordan River-2 Jordan River from North Temple to 2100	LIT16020204-002	Iordan River-2	*	3R	NS	5		4.46
Davis County line upstream to North UT16020204-002 Jordan River-2 Temple Street 3B NS 5 DO Jordan River from North Temple to 2100	C11002020+ 002	JOIGUII ICIVOI Z	*	<u>u</u>	110		7155C55ment impunment	7.70
UT16020204-002 Jordan River-2 upstream to North Temple Street 3B NS 5 DO Jordan River from North Temple to 2100								
UT16020204-002			2				Organic Enrichment/Low	
Jordan River from North Temple to 2100	UT16020204-002	Jordan River-2	*	3B	NS	5	- C	4.46
North Temple to 2100	2 - 1002020 : 302			32	110			1.10
0.1.100/20/20+-003 JOHUAN INTO 3 E. CON 3 E. CON	UT16020204-003	Jordan River-3	South	2B	NS	5	E. coli	4.2
			Iondon Direct form					
Jordan River from North Temple to 2100 Organic Enrichment/Low							Organia Enrichment/Law	
UT16020204-003 Jordan River-3 South 3B NS 5 DO	LIT16020204 002	Jordan Divor 2	*	2 D	NC	5		4.2

Assessment	Assessment	Assessment	Beneficial Use	Beneficial		Pollutant	
Unit	Unit	Unit	Class	Use	Support	Or	Stream
ID	Name	Description	Impaired	Support	Category	Pollution	Miles
	1 (6,112	Jordan River from	Impun vu	Биррого	Caregory	I onwoon	1,11100
		North Temple to 2100					
UT16020204-003	Jordan River-3	South	3B	NS	5	Total Phosphorus	4.2
		Jordan River from				1	
		2100 South to the					
		confluence with Little					
UT16020204-004	Jordan River-4	Cottonwood Creek	4	NS	5	Salinity/TDS/Chlorides	9.4
		Jordan River from the					
		confluence with Little					
		Cottonwood Creek to					
UT16020204-005	Jordan River-5	7800 South	2B	NS	5	E. coli	4.′
		Jordan River from the					
		confluence with Little					
		Cottonwood Creek to					
UT16020204-005	Jordan River-5	7800 South	3A	NS	5	Temperature	4.7
		Jordan River from the					
		confluence with Little					
		Cottonwood Creek to			_		
UT16020204-005	Jordan River-5	7800 South	4	NS	5	Salinity/TDS/Chlorides	4.7
		Jordan River from				Benthic	
		7800 South to				Macroinvertebrate	
UT16020204-006	Jordan River-6	Bluffdale	3A	NS	5	Assessment Impairment	10.29
C110020201 000	Jordan River o	Jordan River from	3/1	110		7 issessment impairment	10.2
		7800 South to					
UT16020204-006	Jordan River-6	Bluffdale	3A	NS	5	Temperature	10.29
0110020201000	Volum 111, or o	Brurraure	0.11	110		Temperature	10.2
						Benthic	
		Jordan River from				Macroinvertebrate	
UT16020204-007	Jordan River-7	Bluffdale to Narrows	3A	NS	5	Assessment Impairment	4.18
		Jordan River from					
UT16020204-007	Jordan River-7	Bluffdale to Narrows	3A	NS	5	Temperature	4.18
		Jordan River from					
UT16020204-007	Jordan River-7	Bluffdale to Narrows	4	NS	5	Salinity/TDS/Chlorides	4.18
		Emigration Creek and					
		tributaries from					
		Foothill BLVD to					
UT16020204-012	Emigration Creek	headwaters	2B	NS	5	Pathogens	4.29
		Big Cottonwood					
		Creek and tributaries					
	Big Cottonwood Creek-	from Jordan River to					
UT16020204-019	1 1	Big Cottonwood WTP	3A	NS	5	Temperature	9.53

	Table 2.6.6. Impaired Waters Located in the Jordan/Utah Lake Watershed Management Unit.						
Assessment	Assessment	Assessment	Beneficial Use	Beneficial		Pollutant	
Unit	Unit	Unit	Class	Use	Support	Or	Stream
ID	Name	Description	Impaired	Support	Category	Pollution	Miles
UT16020204-021	Little Cottonwood Creek-1	Little Cottonwood Creek and tributaries from Jordan River confluence to Metropolitan WTP	3A	NS	5	Temperature	8.73
UT16020204-021	Little Cottonwood Creek-1	Little Cottonwood Creek and tributaries from Jordan River confluence to Metropolitan WTP	3A	NS	5	Benthic Macroinvertebrate Assessment Impairment	8.73
UT16020204-021	Little Cottonwood Creek-1	Little Cottonwood Creek and tributaries from Jordan River confluence to Metropolitan WTP	4	NS	5	Salinity/TDS/Chlorides	8.73
UT16020204-022	Little Cottonwood Creek-2	Little Cottonwood Creek and tributaries from Metropolitan WTP to headwaters	3A	NS	5	Benthic Macroinvertebrate Assessment Impairment	21.49