



## Fact Sheet

NPDES Permit Number: IDS028258  
Public Comment Period Issuance Date: February 5, 2019  
Public Comment Period Expiration Date: March 22, 2019

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**The U.S. Environmental Protection Agency (EPA) Proposes to Issue a  
National Pollutant Discharge Elimination System (NPDES) Permit  
for Storm Water Discharges To:**

**Idaho Transportation Department-District #2**

The EPA Region 10 proposes to issue a NPDES permit authorizing the discharge of storm water from all municipal separate storm sewer system (MS4) outfalls owned and/or operated by the Idaho Transportation Department-District #2 (ITD) and that are located in the Lewiston Urbanized Area. Permit requirements are based on Section 402(p) of the Clean Water Act (CWA), 33 U.S.C. § 1342(p), and EPA regulations for permitting municipal stormwater discharges (40 CFR §§ 122.26, 122.30-35, and 123.35; see also 64 FR 68722 [Dec. 8, 1999] and 81 FR 89320 [Dec. 9, 2016]).

The Permit requires the implementation of a comprehensive storm water management program (SWMP), and outlines the control measures to be used by the Permittee to reduce pollutants in their stormwater discharges to the maximum extent practicable (MEP), protect water quality, and satisfy the appropriate water quality requirements of the CWA. Annual reporting is required to reflect the status of the SWMP implementation.

This Fact Sheet includes:

- information on public comment, public hearing, and appeal procedures;
- descriptions of the regulated MS4 discharges to be covered under the Permit; and
- explanation of the control measures and other Permit terms and conditions.

The EPA requests public comment on all aspects of the Permit.

### **State CWA Section 401 Certification**

Upon the EPA's request, the Idaho Department of Environmental Quality (IDEQ) has provided a draft certification of the permit under Section 401 of the CWA, 33 U.S.C. § 1341. Comments regarding the certification should be directed to:

Idaho Department of Environmental Quality  
ATTN: Sujata Connell, Surface Water Quality Manager  
1118 "F" Street  
Lewiston, ID 83501

### **Public Comment and Opportunity for Public Hearing**

Persons wishing to comment on, or request a Public Hearing for, the draft Permit must do so in writing by the expiration date of the Public Comment period. A request for Public Hearing must state the nature of the issues to be raised as well as the requester's name, address and telephone number. All comments and requests for Public Hearings must be in writing and should be submitted to the EPA as described in the Public Comments Section of the attached Public Notice.

After the comment period ends, and all comments have been considered, the EPA's Regional Director for the Office of Water and Watersheds will make a final decision regarding permit issuance. If the EPA receives no comments, the tentative conditions in the draft permit will become final. If comments are submitted, the EPA will prepare a response to comments document and, if necessary, will make changes to the draft Permit. After making any necessary changes, the EPA will issue the Permit with a response to comments document, unless issuance of a new draft Permit is warranted pursuant to 40 CFR § 122.14. The Permit will become effective no earlier than thirty (30) days after the issuance date, unless the permit is appealed to the Environmental Appeals Board within 30 days pursuant to 40 CFR § 124.19.

### **Documents Available for Review**

The draft Permit, and other information is available on the EPA Region 10 website at: <https://www.epa.gov/npdes-permits/stormwater-discharges-municipal-sources-idaho-and-washington> OR <https://www.epa.gov/npdes-permits/idaho-npdes-permits>. The draft Permit and related materials can be reviewed in person by contacting the EPA Region 10 Operations Office in Boise or in Region 10's Regional Office in Seattle, between 8:30 a.m. and 4:00 p.m. (Mountain Time), Monday through Friday:

**U.S. Environmental Protection Agency,  
Region 10  
Idaho Operations Office  
950 W. Bannock Street, Suite 900  
Boise, ID 83702  
(208) 378-5746**

**U.S. Environmental Protection Agency,  
Region 10  
Office of Water and Watersheds  
1200 Sixth Avenue, Suite 155, OWW-191  
Seattle, Washington 98101  
(800) 424-4372, and request x-0523**

For questions regarding the Permit or Fact Sheet, contact Misha Vakoc at the phone number or E-mail listed above. Services for persons with disabilities are available by contacting Audrey Washington at (206) 553-0523.

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### Acronyms

ACM	Alternative Control Measure
BMP	Best Management Practice
CFR	Code of Federal Regulations
CGP	Construction General Permit, i.e., the most current version of the <i>NPDES General Permit for Stormwater Discharges from Construction Activities in Idaho</i>
CWA	Clean Water Act
CZARA	Coastal Zone Act Reauthorization Amendments
DDE	4,4 dichlorodiphenyldichloro-ethylene
DPS	Distinct Population Segment
EFH	Essential Fish Habitat
ESA	Endangered Species Act
ESU	Evolutionary Significant Unit
EPA	United States Environmental Protection Agency, Region 10
FR	Federal Register
GI	Green Infrastructure
GSI	Green Stormwater Infrastructure
IDAPA	Idaho Administrative Procedures Act
IDEQ	Idaho Department of Environmental Quality
ITD2	Idaho Transportation Department–District #2
LA	Load Allocation
LGDP	Lower Granite Dam Pool
LID	Low Impact Development
LLPs	Lewiston Levee and Pumping Plants
mg/L	Milligrams per Liter
MEP	Maximum Extent Practicable
MS4	Municipal Separate Storm Sewer System
MSFCMA	Magnuson-Stevens Fishery Conservation and Management Act
NEPA	National Environmental Policy Act
NHPA	National Historic Preservation Act
NOAA	National Oceanic and Atmospheric Administration
NPDES	National Pollutant Discharge Elimination System
O&M	Operation and Maintenance
OWW	EPA Office of Water and Watersheds
PCBs	Polychlorinated biphenyls
SWMP	Stormwater Management Program
SWPPP	Stormwater Pollution Prevention Plan
TCDD	2,3,7,8 Tetrachlorodibenzo-p-dioxin
TMDL	Total Maximum Daily Load
UA	Urbanized Area
US	United States
USACOE	U.S. Army Corps of Engineers
USC	United States Code
USFWS	U.S. Fish and Wildlife Service
WA	Washington
WAC	Washington Administrative Code
WDOE	Washington Department of Ecology
WLA	Wasteload Allocation
WQS	Water Quality Standards

## 1 Introduction

Stormwater is the surface runoff that results from rain and snow melt. Urban development alters the land’s natural infiltration, and human activity generates a host of pollutants that can accumulate on paved surfaces. Uncontrolled stormwater discharges from urban areas can negatively impact water quality. The National Pollutant Discharge Elimination System (NPDES) regulations establish permit requirements for discharges from certain municipal separate storm sewer systems (MS4s) located in Census-defined Urbanized Areas. Appendix 2 of this Fact Sheet details the types of pollutants typically found in urban stormwater, and explains the regulatory background for the MS4 permit program.

The terms “municipal separate storm sewer” and “small municipal separate storm sewer system” are defined at 40 CFR §122.26(b)(8) and (b)(16), respectively. MS4s include any publicly-owned conveyance or system of conveyances used for collecting and conveying stormwater that discharge to waters of the United States. MS4s are designed for conveying stormwater only, and are not part of a combined sewer system, nor part of a publicly owned treatment works. Such a system may include roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains. In Idaho, various public entities own and/or operate MS4s, including, but not limited to: cities and counties; local highway districts; Idaho Transportation Department; and colleges and universities.

The EPA is proposing to issue a Permit authorizing stormwater discharges from the regulated small MS4 located in the Lewiston Urbanized Area (UA) owned and/or operated by the Idaho Transportation Department-District #2 (ITD2). This Fact Sheet explains the rationale for the proposed Permit terms and conditions for these MS4 discharges.

Other entities may have responsibilities to manage MS4 discharges in the Lewiston UA, however this Fact Sheet addresses requirements and responsibilities for ITD2 only. For example, both the City of Lewiston (City) and Lewis-Clark State College (LCSC) own and/or operate regulated small MS4s in this area, and the EPA is concurrently proposing a separate NPDES permit to address their discharges. If other Idaho entities own and/or operate a MS4 in this UA, they must seek NPDES permit coverage for those MS4 discharges by submitting a MS4 permit application.<sup>1</sup>

### 1.1 Applicant, Permit Area, and Permit History

In accordance with Clean Water Act (CWA) Section 402(p), 33 USC § 1342(p), and federal regulations at 40 CFR §122.32, the EPA is proposing to issue a NPDES permit on a system-wide basis for the MS4 owned and/or operated by ITD2 located in the boundaries of the Lewiston UA as defined by both the Year 2000 and Year 2010 Decennial Census. See Appendix 3 for maps of the Lewiston UA and other relevant information.

<b>Operator</b>	<b>Physical Address</b>
Idaho Transportation Department, District #2	2600 Frontage Road Lewiston, Idaho 83501-0837

<sup>1</sup> The EPA notes that this Urbanized Area extends west into the State of Washington. The Cities of Asotin and Clarkston, and Asotin County, WA are also owners/operators of regulated small MS4s, and implement stormwater management programs as required by a similar MS4 permit issued by the WA Department of Ecology.

The EPA received ITD2's application for NPDES permit coverage on March 10, 2003, describing a Storm Water Management Program (SWMP) to reduce pollutants in discharges from the MS4 to the maximum extent practicable (MEP). ITD2 submitted an amendment to the application regarding the Lewiston Maintenance Yard on June 20, 2005.

In August 2007, the EPA originally proposed for public comment a draft permit for ITD2's MS4 discharges, but did not complete all of the necessary procedural steps to issue the final permit as a result of that proposal. ITD2 submitted comments on the 2007 draft permit, which the EPA has referenced during the development of the current draft Permit.

In 2016 and 2017, the EPA was working on a general permit that would cover all Phase II regulated MS4s in Idaho. During this period of time, the EPA received comments from the Permittees and other stakeholders on two versions of the draft general permit. The EPA has decided to issue individual permits instead of a general permit. However, the information received, in conjunction with the ITD2 permit application and other information, has been used to inform the current draft Permit. All of these materials are available as part of the Administrative Record.

## **1.2 Idaho NPDES Program Authorization**

On June 5, 2018, the EPA approved Idaho's application to administer and enforce the Idaho Pollutant Discharge Elimination System (IPDES) program. IDEQ will be taking the IPDES program in phases over a four-year period in accordance with the Memorandum of Agreement (MOA) between IDEQ and the EPA, and subject to EPA oversight and enforcement. IDEQ will obtain permitting authority for the stormwater phase on July 1, 2021. At that time, all documentation required by the permit will be sent to IDEQ rather than to the EPA and any decision under the permit stated to be made by the EPA or jointly between the EPA and IDEQ will be made solely by IDEQ. Permittees will be notified by IDEQ when this transition occurs.

## **1.3 Discharge Locations and the ITD2 MS4**

Discharge locations for the MS4s owned and/or operated by ITD2 discharge to the Clearwater Arm of the Lower Granite Dam Pool.<sup>2</sup> Portions of the ITD2 MS4 that are operated by the City as described in Section 1.3.3 below flow into the Lewiston Levee and Pumping Plants (LLPs) as described in greater detail below

See Appendix 3 for maps of the Lewiston UA Permit Area, including a map of the ITD2 right of ways; and Appendix 4 for a map of the LLPs configuration and flow patterns.

### **1.3.1 Lower Granite Dam Pool**

The Lewiston UA is located at the confluence of the Clearwater River and the Snake River, with the Snake River forming the boundary between Idaho and Washington, and continuing downstream into Washington. Upstream of the City, river flows in both the North Fork Clearwater and Snake Rivers are regulated by multiple dams. Completion of the Lower Granite Dam, 39 miles downstream on the lower Snake River, created a

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<sup>2</sup> ITD2 2003 and ITD 2007.

impoundment of water behind the dam that is now known as the Lower Granite Dam Pool (LGDP).<sup>3</sup> The LGDP ends in the Snake River near Asotin, Washington, and in the Clearwater River near Lewiston, and includes the confluence of the Snake and Clearwater Rivers.<sup>4</sup> Water quality description of the LGDP is provided in Section 1.6 of this Fact Sheet.

### 1.3.2 Lewiston Levee and Pumping Plants

To compensate for increased water levels, contain the rivers, and protect the City from inundation, the U.S. Army Corps of Engineers (USACOE) built approximately 7.6 miles of levees along the Snake and Clearwater Rivers called the Lewiston Levee and Pumping Plants (LLPs). See map, Appendix 4.

An interconnected series of holding ponds on the landward side of each levee serve to capture interior runoff drainage from the urban area as well as seepage from the levees. At four locations (specifically, Ponds A and B behind the North Lewiston Levee; West Pond behind the West Lewiston Levee; and East Pond behind the East Lewiston Levee), accumulated pond water is periodically pumped through the levees back into the LGDP. Without the pumps, the ponds would exceed their storage capacity and back flood into the City of Lewiston. Pump settings are based on pond storage capacity, and are automatically activated by level switches. Pump intake structures are gated to prevent trash and debris from entering the LGDP.

USACOE also occasionally siphons water from the LGDP back into the ponds for irrigation and to maintain pond water quality.<sup>5,6</sup>

### 1.3.3 Description of the ITD2 MS4 and Discharge Locations

The portion of the ITD2 MS4 within the Lewiston UA serves approximately 0.367 square miles along the state highway right of ways, and in general discharges through the LLPs to the Clearwater Arm of the LGDP. See Map in Appendix 3, Figure 3.5. Segments of state highway system that are owned and/or operated by ITD2 include the following:

- **U.S. 12: Milepost 0 – 3.29.** Length of segment is 3.29 miles. Along U.S. 12, beginning at the west city limits on Interstate Bridge via Snake River Ave., First Street, D Street Extension, east along the Dike Bypass to 18th/Main Street Intersection, continuing east along Main Street to 21st Street/G Street Intersection, then across the Memorial Bridge to the east end of the U.S. 12 – U.S. 95 Interchange.
- **U.S. 95: Milepost 310.75 – 312.50.** Length of segment is 1.75 miles. Along U.S. 95, beginning at the east city limits, through the U.S. 12 – U.S. 95 Interchange, including all ramps, to the base of Lewiston Hill.
- **State Highway 128: Milepost 0 – 2.198.** Length of segment is 2.198 miles. Along State Highway 128, beginning at the west city limits, continuing east to S.H. 128/U.S. 12 Intersection including all ramps.

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<sup>3</sup> In its 2014 Integrated Report, IDEQ refers to this waterbody segment as the LGDP, and the EPA uses this nomenclature in the Permit and this Fact Sheet. The EPA notes that the combined confluence is also referred to as *Lower Granite Reservoir*, *Lower Granite Lake*, and/or individually as either the *Snake River* or the *Clearwater River*.

<sup>4</sup> EPA 2003

<sup>5</sup> Steevens, et al 2005; Schwarz 2004; EPA 2003; USACOE 1972.

<sup>6</sup> Water pumped from the LLPs to the LGDP is a water transfer; water transfers are exempt from NPDES permitting. See 40 CFR §122.3 and EPA 2008c.



- **Frontage Road:** Milepost 2.403 – 3.398 on U.S. 12. Length of segment is 0.995 miles. Includes the Frontage Road from 3rd Avenue’s intersection of U.S. 12 east to the end of the Frontage Road where it intersects U.S. 95/U.S. 12.

In July 2001, ITD2 and the City entered into a Cooperative Agreement for Maintenance of State Highway U.S. 12 and its Frontage Road; U.S. 95; and State Highway 128. (Cooperative Agreement). Under the Cooperative Agreement, the City operates and maintains the MS4 along these roadways within City limits, while ITD2 conducts snow removal, culvert maintenance, and maintenance of unimproved roadsides on U.S. 95 and State Highway 128 only.

In 2007, ITD2 clarified in its comments submitted to the EPA that, under the Cooperative Agreement, “[W]ithin the Lewiston MS4 Area, ITD maintains 11 active culvert locations ....and associated ditches. These facilities rarely receive flow and are often dry, even during rain events.....ITD only has...two direct outfalls to the Clearwater River.”<sup>7</sup>

#### **1.4 Permit Development**

The NPDES permitting authority must include terms and conditions in each successive MS4 permit that meet all of the requirements of 40 CFR § 122.34(a)(2) “.....*establish in specific, clear, and measurable terms what is required to reduce the discharge of pollutants to the MEP, to protect water quality, and to satisfy the appropriate water quality requirements of the CWA. ...For permits being issued to a small MS4 for the first time, [the NPDES permitting authority] may specify a period of up to five years from the date of permit issuance for the permittee to fully comply with the permit and to implement necessary best management practices.*”<sup>8</sup>

As noted in Section 1.1, the EPA previously developed a draft permit for the MS4 discharges from ITD2, but has not yet issued a final permit. Because the Permit discussed in this document will be issued for the first time, 40 CFR § 122.34(a)(1) allows the NPDES permitting authority to specify a period of up to five years to fully comply with the conditions of the first term MS4 permit. ITD2 has many components of their SWMP in place, and works cooperatively with the City for certain actions related to the MS4. As noted in Section 1 of this Fact Sheet, the City and Lewis-Clark State College will also be subject to comparable SWMP requirements in a separate, first-time MS4 permit. Therefore, the EPA considers it prudent to allow both ITD2, and the City up to 4.5 years to ensure full implementation of all required stormwater management control measures set forth in their respective MS4 Permits.

The EPA has considered a variety of information in order to develop the Permit terms and conditions, including but not limited to:

- The MS4 permit application materials and subsequent documents submitted by ITD2;
- Other EPA issued MS4 permits issued in Idaho;
- Impaired waters listings by IDEQ and the State of Washington for the LGDP;

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<sup>7</sup> ITD2 2007.

<sup>8</sup> See 40 CFR §122.34(a), EPA 2016a, and EPA 2016b.

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- Updated Urbanized Area maps and boundaries, based on the Year 2010 Census;
- Input from Idaho stakeholders on the EPA’s preliminary draft MS4 permit(s);
- EPA guidance and national summary information regarding MS4 permits,<sup>9</sup> including:
  - *Compendium Part 1: Six Minimum Control Measure Provisions*, November 2016;
  - *Compendium Part 2: Post Construction Performance Standards*, November 2016;
  - *Compendium Part 3: Water Quality-Based Requirements*, April 2017;
  - *Summary of State Post Construction Stormwater Standards*, July 2016;
  - The EPA’s November 2014 Memo entitled *Revisions to the November 22, 2002 Memorandum "Establishing TMDL Wasteload Allocations (WLAs) for Stormwater Sources and NPDES Permit Requirements Based on Those WLAs;"* and the
  - *MS4 Permit Improvement Guide*, April 2010.
- Conclusions and recommendations from the National Research Council Report entitled *Urban Stormwater Management in the United States*, dated October 2008;
- Technical developments in the field of stormwater management, including recent research and information on the effective and feasible methods for the on-site management and treatment of stormwater using practices commonly referred to as “low impact development” (LID), “green infrastructure” (GI) and/or “green stormwater infrastructure” (GSI) techniques.
- Other MS4 permits issued by EPA for regulated MS4s in Washington, Puerto Rico, Massachusetts, and New Mexico, as well as MS4 permits issued by other state NPDES permitting authorities.

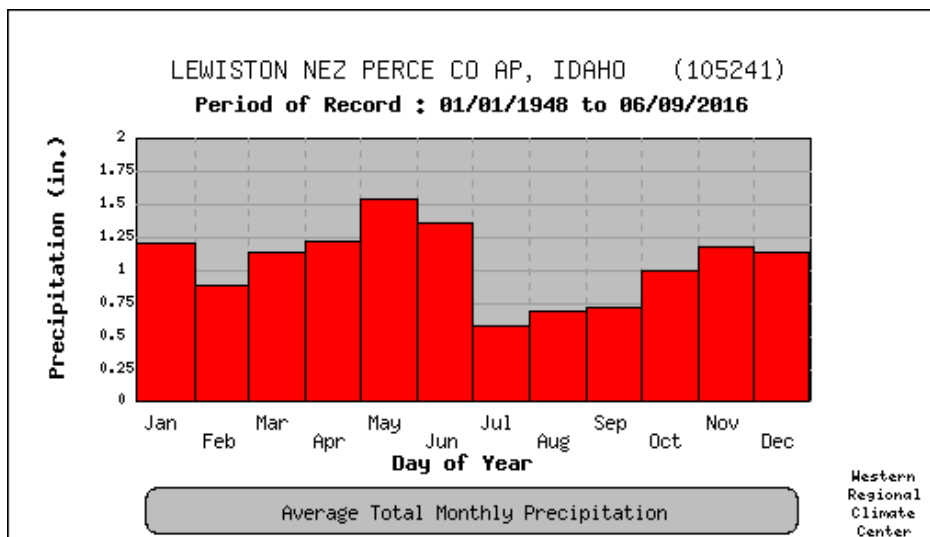
A partial list of references supporting the development of the ITD2 MS4 Permit is provided in Section 6 of this Fact Sheet; additional references are available in the Administrative Record for the Permit.

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<sup>9</sup> EPA documents listed here are available at <https://www.epa.gov/npdes/stormwater-discharges-municipal-sources>

**1.5 Average Annual Precipitation in the Lewiston Urbanized Area**

The National Oceanic and Atmospheric Administration’s (NOAA’s) Western Regional Climate Center maintains historical climate information for various weather stations throughout the western United States. The Lewiston area has an annual average precipitation of approximately 12.62 inches, and an annual average snowfall of approximately 15.2 inches.



**Figure 1. Average Total Monthly Precipitation in the Lewiston, Idaho Area.**

**1.6 Receiving Waters**

The EPA intends to issue the Permit authorizing discharges from the MS4 owned and/or operated by ITD2 in the Lewiston UA to waters of the United States that include the Clearwater Arm of the Lower Granite Dam Pool. All discharges to waters of the U.S. located in the Permit Area must also comply with any limitations that may be imposed by the State as part of its water quality certification pursuant to CWA Section 401, 33 U.S.C. §1341. See also Section 3.5 of this Fact Sheet.

The Idaho Department of Environmental Quality (IDEQ) has classified the Lower Granite Dam Pool as fresh water with designated beneficial uses as listed in Table 1 below.

NPDES permit conditions must also meet the applicable water quality requirements of affected States other than the State in which the discharge originates, which may include downstream States.<sup>10</sup> The portion of the Lower Granite Dam Pool that flows into Washington is called Lower Granite Lake. Therefore, in addition to meeting Idaho water quality requirements, the permit conditions must also meet the State of Washington water quality standards. Table 1 includes the applicable water quality standards for Washington.

<sup>10</sup> See 40 CFR §122.44(d).

<b>Table 1 Designated Beneficial Uses for Waters Receiving Regulated MS4 Discharges</b>		
<b>Receiving Water</b>	<b>Citation from IDAPA or WAC</b>	<b>Designated Beneficial Uses*</b>
Lower Granite Dam Pool	58.01.02.120.08	Cold water aquatic life, primary contact recreation, domestic water supply; industrial and agricultural water supply, wildlife habitats, and aesthetics.
Snake River ( <i>Washington Portion - Lower Granite Lake</i> )	WAC 173-201A-602	Salmonid spawning; rearing and migration; primary contact recreation; domestic, industrial, and agricultural water supply; stock watering; wildlife habitat; harvesting; commerce and navigation; boating; and aesthetics

**1.6.1 Anti-degradation**

IDEQ completed a draft anti-degradation analysis as part of its CWA Section 401 certification for the Permit; see Appendix 1 of this Fact Sheet. Upon receipt of the final CWA Section 401 certification from IDEQ, the EPA will review the anti-degradation analysis to ensure it is consistent with the State’s CWA Section 401 certification requirements and the State’s anti-degradation implementation procedures.

**1.6.2 Water Quality and Total Maximum Daily Loads**

Any water body that does not, and/or is not, expected to meet the applicable State water quality standards is described as “impaired” or as a “water quality-limited segment.” Section 303(d) of the CWA requires States to identify impaired water bodies in the State and develop TMDL management plans for those impaired water bodies. TMDLs define both WLAs for point sources and load allocations (LAs) for non-point sources that specify how much of a particular pollutant can be discharged from both regulated and unregulated sources, respectively, such that the water body will again meet State water quality standards.

IDEQ’s 2014 *Integrated Section 303(d)/Section 305(b) Report* (2014 Integrated Report) contains the list of impaired water bodies in Idaho required by CWA Section 303(d).<sup>11</sup> Similarly, the Washington Department of Ecology’s (WDOE) 2012 Water Quality Assessment Report lists impaired water bodies in Washington. The table below lists summarizes the status of waters receiving waters for the MS4 discharges covered by the Permit, including; the waterbody assessment units, or segments, that IDEQ and WDOE considers impaired; and the status of any applicable TMDL(s) for those segments.

See Appendix 3, Figures 3.4 and 3.5 of this Fact Sheet for a map of the Lewiston area relative to the surrounding watersheds, and a map showing the general location of the MS4 associated with the ITD2 state highway system in the Permit Area.

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<sup>11</sup> The IDEQ’s 2014 Integrated Report is available online at: <https://www.deq.idaho.gov/water-quality/surface-water/monitoring-assessment/integrated-report.aspx>.

<b>Table 2 Status of Waters Receiving Regulated MS4 Discharges</b>			
<b>Receiving Water</b>	<b>Waterbody Assessment Unit</b>	<b>Impairment Pollutants</b>	<b>TMDL Status</b>
Lower Granite Dam Pool	ID17060306CL001_07 <i>Lower Granite Dam Pool</i>	None- Fully Supporting beneficial uses.	Not applicable.
Snake River (WA Portion)	170601070201_01_01 Snake River (Lower Granite Lake)	Total Dissolved Gas	<i>TMDL for Lower Snake River Total Dissolved Gas</i> , August 2003. WDOE Publication No. 03-03-020; EPA Approved,(date unknown).
		2,3,7,8Tetrachlorodibenzo-p-dioxin (TCDD; or Dioxin)	<i>TMDL to Limit Discharges of 2,3,7,8-TCDD (Dioxin) to the Columbia River Basin</i> , February 1991. WDOE Publication No. 09-10-058. EPA Approved (date unknown).
		pH Temperature Dissolved Oxygen  Polychlorinated biphenyls (PCBs);  4,4' dichlorodiphenyldichloro-ethylene (DDE)	No TMDL(s) completed.

As previously described in Section 1.3 of this Fact Sheet, the confluence of the Snake and Clearwater Rivers form the Lower Granite Dam Pool.

Downstream of the Lewiston UA, WDOE considers the portion of the Snake River known as Lower Granite Lake to be impaired for total dissolved gas; 2,3,7,8 tetrachlorodibenzo-p-dioxin (TCDD, or dioxin); pH, temperature, dissolved oxygen, polychlorinated biphenyls (PCBs); and 4,4 dichlorodiphenyldichloro-ethylene (DDE). TMDLs have been completed for total dissolved gas and dioxin, but neither TMDL contains WLAs for municipal stormwater discharges. Specifically, WDOE's 2003 *TMDL for Lower Snake River Total Dissolved Gas* identifies water spilling over dams on the Snake River as the cause of total dissolved gas levels above the state water quality criteria, and establishes associated load allocations only for those Snake River dams. With regard to dioxin, the EPA issued the multi-state *TMDL to Limit Discharges of 2,3,7,8-TCDD (Dioxin) to the Columbia River Basin* in 1991. This TMDL for dioxin establishes WLAs only for chlorine bleaching pulp mills, and does not establish WLAs or LAs for other point or non-point sources, nor identify any specific actions or expectations for potential sources of dioxin.

See Appendix 6 of this Fact Sheet for further discussion of these waterbodies

In the event that the EPA approves TMDLs for the receiving waters listed above and those TMDL(s) contain WLA(s) for one or more regulated MS4s, the EPA may, after consultation with IDEQ, choose to modify the Permit to incorporate additional provisions,

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if needed. Permit Part 8.1 addresses such a permit modification, consistent with the NPDES regulations at 40 CFR §§ 122.62, 122.64 and 124.5.

## 2 Basis for Permit Conditions

### 2.1 General Information

NPDES permits for regulated small MS4s must include terms and conditions to reduce the discharge of pollutants from the MS4 to the MEP, to protect water quality, and to satisfy the appropriate water quality requirements under the CWA. At a minimum, MS4 permit terms and conditions must satisfy the requirements set forth in the federal regulations at 40 CFR § 122.34(a) through (e).

MEP is the statutory standard that describes the level of pollutant reduction that MS4 operators must achieve. What constitutes MEP “should continually adapt to current (*water quality*) conditions and BMP effectiveness, and should strive to attain water quality standards.”<sup>12</sup> Neither the CWA nor the stormwater regulations provide a precise definition of MEP which provides for maximum flexibility in MS4 permitting.

The EPA has described the iterative process of imposing the MS4 standard, including what is necessary to reduce pollutants to the MEP, over consecutive (future) permit terms as: (1) the NPDES permitting authority defining clear, specific, and measurable NPDES permit requirements; (2) the MS4 Permittee implementing the required actions as part of a comprehensive program; and (3) the NPDES permitting authority and MS4 Permittee evaluating the effectiveness of BMPs used to date, current water quality conditions, and other relevant information.<sup>13</sup>

All MS4 permits must include terms and conditions that are “clear, specific, and measurable,” and consist of narrative, numeric, and/or other types of requirements. Examples include: implementation of specific tasks or practices; BMP design requirements; performance requirements; adaptive management requirements; schedules for implementation, maintenance, and/or frequency of actions.<sup>14</sup>

As discussed in Section 1.4 of this Fact Sheet, this is the first permit for ITD2, and the Permit allows ITD2 to work towards compliance with the required terms and conditions during the first 4.5 years (5-year permit term) to establish compliance with the terms and conditions. In order for the Permittee to comply with the MS4 standard, the EPA has defined the stormwater management control measures and evaluation requirements that the Permittee must implement. To reduce the discharge of pollutants from the MS4 to the MEP, the Permittee must implement and enforce the stormwater management control measures outlined in Permit Part 3 (*SWMP Control Measures*). To protect water quality, the Permittee must conduct monitoring and/or assessment activities targeted at reducing the impairment pollutants of concern in Permit Part 4 (*Special Conditions for Discharges to Impaired Waters*). Where the Permittee’s MS4 discharge(s) may be contributing to an ongoing excursion above an applicable water quality standard, and a long-term solution is needed to address the MS4 contribution, the Permit establishes an adaptive management process in Permit Part 5 (*Required Response to Excursions of Idaho Water Quality Standards*). Evaluation and reporting requirements are outlined in Permit Part 6 (*Monitoring, Recordkeeping and Reporting*).

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<sup>12</sup> EPA 1999, pages 68753-68734.

<sup>13</sup> EPA 2016 pages 89338.-89339; 40 CFR 122.34(a)(2)

<sup>14</sup> See 40 CFR 122.34(a).

## **2.2 Discharges Authorized By The Permit**

Permit Part 1.2 conditionally authorizes municipal stormwater discharges, and certain types of non-stormwater discharges, from the Permittee's MS4 in the Permit Area, provided that the Permittee complies with the Permit's terms and conditions. Where monitoring or other information shows that a pollutant in a Permittee's MS4 discharge is causing or contributing to an ongoing excursion above the applicable Idaho water quality standard, the Permittee must comply with the notification and other adaptive management requirements in Permit Part 5 (*Required Response to Excursions of Idaho Water Quality Standards*). See also Section 2.6 of this Fact Sheet.

The Permit outlines conditions and prohibitions related to snow disposal (Permit Part 2.2); stormwater discharges associated with industrial and construction activities (Permit Part 2.3); and discharges unrelated to precipitation events (i.e., "non-stormwater discharges;" Permit Part 2.4) that are consistent with the requirements found in other MS4 NPDES Permits issued by the EPA in Idaho.

The EPA acknowledges that, in some urban Idaho watersheds, non-stormwater sources (in the form of landscape irrigation, springs, rising ground waters, and/or groundwater infiltration) are routinely present during dry weather discharges from the MS4(s). The Permit requires the Permittee to determine whether a detected dry weather MS4 discharge is an "allowable" discharge. Section 2.4.2 of this Fact Sheet discusses the related dry weather outfall screening requirements included as Permit Parts 3.2.5 and 3.2.6.

## **2.3 Permittee Responsibilities**

Permit Part 2.5 outlines Permittee responsibilities. In general, the Permittee is responsible for Permit compliance related to its MS4 and associated discharges.

Permit Part 2.5.1 allows the Permittee to implement one or more of the control measures by sharing responsibility with another entity. The Permittee must enter into a written agreement with the outside party, in order to minimize any uncertainty about the other entity's responsibilities to the Permittee. The Permittee remains responsible for compliance with the Permit obligations in the event the other entity fails to implement the control measure (or any component thereof).<sup>15</sup>

The EPA notes that the Cooperative Agreement between ITD2 and the City is an example of an agreement to share responsibility for SWMP activities. Operation and maintenance of the MS4s along State Highway U.S. 12, Frontage Road, U.S. 95, and State Highway 128 within the City limits have been delegated to the City, and ITD2 retains responsibility for snow removal, culvert maintenance, and maintenance of unimproved roadsides along U.S. 95 and State Highway 128. The Permit requires such actions to be conducted in a manner that reduces pollutants through the MS4 to the MEP and protects water quality; this provision highlights that, in the event that the City fails to conduct such activities along the State Highways within City limits, ITD2 remains responsible for compliance with the Permit obligations.

Permit Part 2.5.2 requires the Permittee to maintain adequate legal authority to implement and enforce the required SWMP control measures as allowed and authorized

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<sup>15</sup> See 40 CFR §122.35.



pursuant to applicable Idaho law.<sup>16</sup> Without adequate legal authority or other mechanisms that allow control over what enters or discharges from the MS4, the Permittee cannot perform vital stormwater management functions, such as performing inspections, requiring installation and proper operation of pollutant control measures within its jurisdiction, and/or enforcing such requirements. In the event that such legal authority does not currently exist, the EPA provides the Permittee with a compliance deadline of 4.5 years to establish the necessary authority to comply with the Permit. The EPA recognizes that transportation departments and other special purpose entities do not have formal ordinance authority. In such cases, the EPA expects the Permittee to control pollutants into and from the MS4 by using all relevant regulatory mechanisms available pursuant to applicable Idaho law.

Permit Part 2.5.3 requires the Permittee to develop, and update as necessary, a written SWMP Document.<sup>17</sup> The SWMP Document summarizes the physical characteristics of the MS4, and describes how the Permittee conducts the required SWMP control measures in its jurisdiction. The EPA has provided a suggested format for the SWMP Document as an appendix to the Permit, and notes that other MS4 Permittees have already developed such documents that can be used as examples.<sup>18</sup> The SWMP Document addresses three audiences and purposes:

1. General Public – The written SWMP serves to inform and involve the public in implementation of the local SWMP;
2. EPA and IDEQ - The written SWMP provides the permitting authority a single document to review to understand how the MS4 Permittee will implement its stormwater management program and comply with Permit requirements and; and
3. Elected officials and local staff - The written SWMP can potentially be used by the Permittee(s) as an internal planning or briefing document.

The SWMP Document should also describe the Permittee's unique implementation issues such as cooperative or shared responsibilities with other entities.

The requirement for the Permittee(s) to develop a SWMP Document is an enforceable condition of the Permit. However, the contents of the SWMP Document are not directly enforceable as requirements of the Permit. As a result, the Permittee(s) may create and subsequently revise the SWMP Document, as necessary, to reflect how the stormwater management activities are implemented in compliance with the Permit. Therefore, updates to the SWMP Document may occur without approval by the EPA or IDEQ.

The first iteration of the Permittee's SWMP Document must be available to the EPA,

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<sup>16</sup> See EPA 2010

<sup>17</sup> See 40 CFR §122.34(b) and discussion of the relationship between the SWMP and required permit terms and conditions in *EPA 2016b* at pages 89339-89341. In contrast, the purpose of the Annual Report is to summarize the Permittee's activities during the previous reporting period, and to provide an assessment or review of the Permittee's compliance with the Permit.

<sup>18</sup> See, for example, SWMP plan documents authored by the City of Coeur d'Alene ([http://www.cdaid.org/files/Engineering/Storm\\_waterManagementPlan.pdf](http://www.cdaid.org/files/Engineering/Storm_waterManagementPlan.pdf)); City of Nampa (<http://www.cityofnampa.us/DocumentCenter/View/1513>); and Boise State University ([http://www.partnersforcleanwater.org/media/182277/2014\\_boise\\_state\\_university\\_swmp.pdf](http://www.partnersforcleanwater.org/media/182277/2014_boise_state_university_swmp.pdf)). Other examples include the Cities of Bellevue, WA; Tacoma, WA; and/or available through the Permit's Administrative Record.

IDEQ, and the public by posting the Document on a publicly available website (required by Permit Part 3.1.8) no later than the due date of the 1st Year Annual Report. If applicable, the SWMP Document must be updated to include any waterbody specific requirements pursuant to Permit Part 4, no later than the due date of the 2nd Year Annual Report. Finally, the SWMP Document must be updated to reflect the Permittee's current implementation of their control measures and submitted with the Permit Renewal Application, as required by Permit Part 8.2 no later than 180 days prior to the expiration date of the Permit.

Permit Part 2.5.4 requires the Permittee to track indicator statistics and information to document and report on SWMP implementation progress.

Permit Part 2.5.5 requires the Permittee to provide adequate financial support, staffing, equipment, and other support capabilities to implement the SWMP control measures and other Permit requirements. The Permittee demonstrates compliance with this provision by fully implementing the requirements of the Permit. The Permittee is not required to keep track of, or report, their implementation costs, though it might be appropriate and helpful for the Permittees to track their program investment in some manner. The Permit does not require specific staffing or funding levels, thus providing flexibility and incentive for Permittees to adopt the most efficient methods to comply with Permit requirements. The EPA encourages the Permittee to establish stable funding sources for ongoing SWMP implementation, and enter cooperative working relationships with other regulated small MS4s. Technical resources, such as the *Water Finance Clearinghouse* developed by EPA's Water Infrastructure and Resiliency Finance Center,<sup>19</sup> are available to help Permittees identify sustainable funding solutions. The EPA supports comprehensive long-term planning to identify investments in stormwater infrastructure and system management that complement other community development initiatives and promote economic vitality.

Permit Part 2.5.6 requires the Permittee to extend its stormwater control measures to all areas under their direct control when new areas served by the MS4 are annexed, or when areas previously served by the MS4 are transferred to another entity. The Permittee must report changes in ownership or operational authority to the EPA and IDEQ through the SWMP Document and Annual Reports. The Permittee is reminded to make associated revisions to MS4 system maps or other records as soon as possible.

### **2.3.1 Alternative Control Measure Requests**

The Permit requires the implementation of stormwater management program (or SWMP) control measures, or control measure components. Where a Permittee must revise or update SWMP control measures, or control measure components, full implementation must be accomplished no later than 180 days prior to the Permit expiration date. To provide implementation flexibility, the Permit allows the Permittee the discretion to submit requests to implement one or more Alternative Control Measures (ACM).

As outlined in Permit Part 2.6.1, the Permittee may submit supplemental or individualized documents, plans, or programs that are deemed equivalent to a comparable SWMP control measure, or control measure component, in Permit Part 3, along with supporting rationale and information. Requests for ACM(s) must be submitted

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<sup>19</sup> See: <https://www.epa.gov/waterfinancecenter>

no later than 180 days after the Permit effective date to ensure that the EPA and IDEQ have adequate time to review the request(s).<sup>20</sup> Upon determining that the ACM request(s) is equivalent to a comparable Permit SWMP control measure, or control measure component, and results in a modification of the Permit terms and conditions, the EPA will provide opportunity for public comment and, if requested, a public hearing. The EPA will consider all comments received on the ACM and resulting change in permit terms and conditions before issuing a final agency decision.<sup>21</sup>

The opportunity for ACM(s) relative to any SWMP control measure, or control measure component, in Permit Part 3 offers the Permittee maximum flexibility for SWMP implementation. For example, the Permittee may request the EPA and IDEQ to consider an alternative means of implementing a SWMP control measure as a whole (such as the Construction Site Runoff control measure specified by Part 3.3); or, the Permittee may request EPA consider an alternative SWMP control measure component, such as the specific requirement in Part 3.3.3 (*Construction Site Runoff Control Specifications*).

Pursuant to Permit Part 2.6.2, an ACM also includes the Permittee's individual or collective plans or programs to address discharges to impaired waters, as specified by Permit Part 4 (*Special Conditions for Discharges to Impaired Waters*). The opportunity to modify the Permit to incorporate specific monitoring/assessment and pollutant reduction activities offers flexibility for the Permittee to specify how they intend to make continued progress toward applicable TMDL targets for their watershed. A Permittee may work independently, or with others, to conduct reasonable, meaningful, and necessary actions that reduce pollutants from the MS4 and protect water quality

## **2.4 SWMP Requirements**

Permit Part 3 contains the clear, specific, and measurable requirements to address the minimum control measures in 40 CFR § 122.34(a) and (b) that serve to reduce pollutants in MS4 discharges to the MEP. For each control measure, the EPA has outlined specific tasks, BMPs, design requirements, performance requirements, adaptive management requirements, schedules for implementation and maintenance, and/or frequency of actions. Each minimum control measure is comprised of actions and activities that the EPA refers to as SWMP control measure components.

The EPA considered the ITD2 permit application, other related materials, and the existing SWMP programs implemented by other MS4 Permittees in Idaho during development of the Permit terms and conditions. The Permit establishes expectations for the level of effort necessary to reduce pollutants in MS4 discharges and therefore defines the MS4 permit standard for ITD2.

The EPA recognizes that each regulated MS4 is unique, and that each operator has different circumstances that guide their approach to stormwater management and pollutant control. To address these unique circumstances, the Permit allows implementation flexibility, while setting consistent expectations through clear, specific, and measurable permit requirements.

### **2.4.1 Public Education, Outreach, and Public Involvement/Participation**

Permit Part 3.1 addresses the required SWMP control measures for public education,

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<sup>20</sup> Pursuant to Permit Part 8.1, no provision is stayed until the modification process to recognize the ACM is complete.

<sup>21</sup> EPA 2016b.

outreach, and involvement requirements consistent with 40 CFR §§ 122.34(b)(1) and (b)(2). Public education, outreach, and involvement are essential parts of any plan to reduce stormwater pollutants, because the daily activities of people contribute significantly to the types and sources of pollutants in urban settings. As citizens learn about the impacts of their actions on local water resources, they are more likely to change their behaviors.

As a state transportation department, ITD2 does not have a traditional “resident population” like cities and counties. ITD2’s 2003 permit application states that it incorporates stormwater management education into its in-house employee certification and training courses, includes stormwater information on its website, and conducts public meetings on major construction projects.<sup>22</sup> The EPA encourages ITD2 to consider working cooperatively with the City, Lewis-Clark State College, and others in the Lewiston area, and throughout the State, to assist with stormwater education and public involvement activities that are both meaningful and relevant to their transportation mission and local needs.

When scoping possible activities, the EPA also recommends that MS4 Permittees consider the recommendations found in the EPA document, *Promising Practices for Permit Applicants Seeking EPA-Issued Permits: Ways to Engage Neighboring Communities*. See also Section 3.1 of this Fact Sheet.

The Permit contains the following Public Education, Outreach, and Involvement SWMP control measure components:

- Permit Part 3.1.1 establishes a compliance deadline of one year from the Permit effective date for the Permittee to begin, or update and continue, their public education, outreach, and involvement activities in the Permit Area. This provision also establishes a deadline of 180 days after the effective date of the permit for the submission of any ACM Request under this provision.
- Permit Part 3.1.2 specifies requirements for the Public Education, Outreach and Involvement Program. To the extent allowable pursuant to the authority granted the Permittee under Idaho law, the Permittee must work to educate and engage interested stakeholders in the development and implementation of the SWMP control measures.
- Permit Part 3.1.3 requires the Permittee to distribute and/or offer a minimum of eight educational messages to at least one of the four audiences listed in Part 3.1.4 during the Permit term.
- Permit Part 3.1.4 identifies target audiences (i.e., General Public; Business/Industrial/Commercial/Institutions; Construction/Development Professionals; and Elected Officials, Land Use Policy and Planning Staff). For each audience, the Permit includes a non-exclusive list of suggested topics for the Permittee to consider as its focus during the Permit term.
- Permit Part 3.1.5 requires the Permittee to assess, or to participate in an effort to assess, the understanding and adoption of behaviors by the target audience(s). A vital, yet challenging, component of a successful education program is the

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<sup>22</sup> See: ITD2 2003.

assessment of whether the Permittee's efforts are achieving the goals of increasing public awareness and behavior change to improve water quality. The EPA recognizes and encourages the long-term nature of such assessment activities, and notes that there may be opportunities for the Permittee to work together within the State, or with other watershed organizations, on specific MS4 topics if they choose to do so.

- Permit Part 3.1.6 requires the Permittee to maintain records of its education, outreach, and public involvement activities.
- Permit Part 3.1.7 requires the Permittee to provide educational opportunities related to certain SWMP control measures at least twice during the Permit term. The Permittee may plan opportunities in a manner such that the relative success of their educational efforts can be articulated as required by Permit Part 3.1.5.
- Permit Part 3.1.8 requires the Permittee to maintain and promote at least one publicly-accessible website to provide relevant SWMP information to the public. Relevant SWMP information includes the Permittee's SWMP Document, links to relevant public education material, and easily identifiable (and up to date) Permittee contact information such that members of the public may easily call or email to report spills or illicit discharges, and/or ask questions, etc.

#### **2.4.2 Illicit Discharge Detection and Elimination**

Permit Part 3.2 contains requirements for the Permittees to address illicit discharges and spill response within their jurisdictions. At a minimum, the EPA requires the Permittees to maintain the ability to prohibit, detect, and eliminate illicit discharges from their MS4s.

The purpose of this SWMP control measure is to require the Permittee to provide ongoing surveillance and deterrence to prevent pollutant loadings caused by illicit discharges into the Permittee's MS4. Illicit discharges can enter the MS4 through direct connections (e.g., wastewater piping mistakenly or deliberately connected to the storm drains), or through indirect connections (e.g., infiltration into the MS4 from cracked sanitary systems, spills collected by drain inlets, or discarded paint or used oil dumped directly into a drain). Both types of illicit discharge can contribute excessive pollutants into the MS4, and in turn can negatively affect water quality. Investigating for and eliminating such illicit discharges from entering the MS4 improves water quality.

The Permittee is responsible for the quality of the discharges from their MS4, and therefore has an interest in locating and discontinuing any uncontrolled non-stormwater discharges into and from their MS4.

The Illicit Discharge Detection and Elimination control measure components required by 40 CFR §122.34(b)(3) direct Permittees to manage illicit discharges to the MS4 by:

- Maintaining a map of the MS4 showing the location of all outfalls and names of the receiving waters;
- Effectively prohibiting discharges of non-stormwater to the MS4 through the use of an ordinance or other regulatory mechanism, and provide for enforcement of that prohibition as needed;
- Implementing a program to detect and address non-stormwater discharges,

including procedures to identify problem areas in the community, determine sources of the problem(s), remove the source if one is identified, and document the actions taken; and

- Informing public employees, businesses, and the general public of the hazards associated with illegal discharges and improper disposal of waste, and publicize appropriate public reporting of illicit discharges when they occur.

In its application materials, ITD2 described that it will work with the City to respond to illicit discharges to the MS4. The EPA encourages ITD2 to work cooperatively with the City to share expertise to fully implement the SWMP control measure components described below.

- Permit Part 3.2.1 establishes a compliance deadline 180 days before the Permit expiration date for the Permittee to update their existing illicit discharge program activities, and/or to fully impose any new program components outlined in this Part. The EPA believes this timeframe is justified to allow the Permittee adequate opportunity to adjust its existing programs, as necessary, to ensure all the components are sufficiently addressed in the Permit Area. This provision also defines the date by which any ACM Request must be submitted
- Permit Part 3.2.2 continues to require the Permittee to maintain a current MS4 map, and an accompanying inventory of the features that comprise the MS4 system. A complete MS4 Outfall Map and Inventory must be submitted as part of the Permit Renewal Application pursuant to Permit Part 8.2. The purpose of the MS4 Outfall Map and Inventory is to record and verify MS4 outfall locations, including relevant descriptive system characteristics. The EPA expects the Permittee to know the locations and characteristics of all outfalls that it owns/operates through mapping their infrastructure and associated assets. The Permittee is encouraged to couple the Inventory with other SWMP control measures, such as the operation and maintenance requirements in Permit Part 3.5, to help inform their inspection and/or maintenance prioritization.

Additionally, Permit Part 3.2.2 requires the Permittee to identify and characterize any MS4 outfall(s) with ongoing dry weather flows as a result of irrigation return flows and/or groundwater seepage. Knowing both the location and characteristics of such outfall(s) is an important data point in areas where the MS4 discharges to phosphorus- and/or nitrogen- impaired waters. The MS4 Map and Outfall Inventory can be collectively reassessed by the EPA, IDEQ, and the Permittee at the time of the Permit renewal to tailor future control measures in the next permit term in efforts to address potential non-stormwater discharges that may be contributing to the impairment.

- Permit Part 3.2.3 requires the Permittee to prohibit non-stormwater discharges into the MS4 through enforcement of an ordinance or other legal mechanism to the extent allowable under Idaho state law. Part 3.2.3 identifies minimum prohibitions that the EPA expects the Permittee to enforce in its jurisdiction.

As previously noted, the EPA recognizes that ITD2 does not have the legal authority to enact enforceable ordinances. In such case, ITD2 may cite to its existing policies, standard operating procedures, cooperative agreements, or

other legal means of ensuring that non-stormwater discharges found discharging through the MS4 will be eliminated when necessary.

The EPA clarifies that it is unnecessary for the ordinance/legal mechanism to cite all the individual prohibitions listed, provided that the Permittee's legal mechanism can be used to address such discharges if they are found discharging to the MS4. This provision provides a minimum expectation for the local ordinance/legal mechanism to prohibit the breadth of possible non-stormwater discharges that negatively impact water quality.

- Permit Part 3.2.4 describes the EPA's expectations for a Permittee's Complaint Reporting and Response Program. The Permittee must maintain and advertise a publicly accessible and available means to report illicit discharges. The Permittee must respond to reports within two (2) days and maintain records regarding actions taken. These programs can be promoted to the public in concert with the public education requirements in Permit Part 3.1. Staff assigned to handle calls should be trained in stormwater issues and emergency response in order to gather and transfer the right information to responders. Conducting an investigation as soon as possible after the initial complaint report is crucial to the success of this program.
- Permit Part 3.2.5 requires the Permittee to conduct a dry weather analytical and field screening monitoring program to identify non-stormwater flows from MS4 outfalls during dry weather. Additionally, this program must emphasize screening activities to detect and identify illicit discharges and illegal connections, and to reinvestigate potentially problematic MS4 outfalls throughout the Permit Area. The EPA has added prescriptive requirements to (1) prioritize visual screening of at least 50 outfalls per year throughout the Permittee's jurisdiction (Permit Part 3.2.5.2); (2) use appropriate screening and monitoring protocols when flows are identified during dry weather (Permit Part 3.2.5.3.); and (3) ensure proper recordkeeping/documentation (Permit Part 3.2.5.4).

Data collected through the Permittee's regular screening of its outfalls during dry weather, and through the public reporting of illicit discharges and connections, can reveal important trends in the types of pollutants generated within and transported into the MS4. Permit Part 3.2.2.6 requires the Permittee to locate and map the occurrences of illicit discharges in order to target appropriate response actions over time. The EPA recommends that samples taken during dry weather screening be analyzed for pH, total chlorine, detergents, total copper, total phenols, fecal coliform bacteria, and/or turbidity to assist in source identification.

Appropriate threshold limits for dry weather monitoring results are important to distinguish pollutant spikes from normal background conditions at a particular outfall. For example, through its Stormwater Investigation Manual, the Ada County Highway District established threshold levels that, when exceeded, result in retesting to determine whether the sample was an isolated event or an ongoing water quality issue. The Permittees should also consider establishing a visual baseline for each outfall type to aid in determining what constitutes "normal" dry weather flows, and to distinguish between background conditions (uncontaminated ground water infiltration, for example) versus abnormal, non-stormwater flows that are prohibited by the Permit.

- Permit Part 3.2.6 requires mandatory follow-up actions for recurring illicit discharges (identified through complaint reports and/or Permittee screening activities). Response activities must begin within 30 days of identifying elevated concentrations of screening parameters, and action must be taken to eliminate problem discharges within 60 days. Specific timelines are included to direct timely initiation of actions to reduce or fully eliminate a known or newly identified problem.

Due to the diverse nature and sources of water quality impacts in urban settings in Idaho, both the EPA and IDEQ are concerned about inputs of irrigation return flows and/or groundwater seepage through MS4s. Permit Part 3.2.6 requires the Permittee to list identified MS4 outfall locations where irrigation return flows and/or groundwater seepage are present during dry weather (see also Permit Part 3.2.2.6.). This is a first, interim step towards an assessment of water quality impacts resulting from these specific non-stormwater discharges. For any MS4 outfall where ongoing dry weather discharges are identified by the Permittee as associated with irrigation return flows and/or groundwater seepage, the term “appropriate action” in Permit Part 3.2.6 means, at a minimum, documentation in the Annual Report of the MS4 outfall location, and the Permittee’s determination of the source as either irrigation return flows or groundwater seepage. The EPA encourages the Permittee to take action to eliminate such flows if it is identified as a source of pollutants pursuant to Permit Part 2.4.5.2. At a minimum, a summary list of all such outfall locations must be submitted with the Permit Renewal Application. This information will be collectively reassessed by the EPA, IDEQ, and the Permittee at the time of the permit renewal to tailor future control measures to appropriately address non-stormwater discharges that may be contributing excess nutrient loads to receiving waters.

- Permit Part 3.2.7 requires the Permittee to respond to spills, and maintain appropriate spill prevention and response capabilities as appropriate within their jurisdiction. Through coordination with state and/or local agencies (under this provision, “agencies” refers to the organizations responsible for spill response), the goal is to provide maximum water quality protection at all times. The EPA has included an explicit requirement directing the Permittee to notify the appropriate IDEQ regional office, Idaho State Communications Center, and/or the National Response Center, as specified by IDEQ in its comments submitted on the EPA’s 2017 draft MS4 General Permit.<sup>23</sup>
- Permit Part 3.2.8 requires coordination with appropriate agencies to ensure the proper disposal of used oil and toxic materials by employees and the public.
- Permit Part 3.2.9 requires the Permittee to train appropriate staff to respond to spills, complaints, and illicit discharges/connections to the MS4. Permittee staff can be the “eyes and ears” of the stormwater program if they are trained to identify illicit discharges and spills or evidence of illegal dumping.

#### **2.4.3 Construction Site Storm Water Runoff Control**

This SWMP control measure requires the Permittee to control construction site runoff

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<sup>23</sup> IDEQ 2017.



discharges into their MS4s. 40 CFR §122.34(b)(4) requires the Permittee to use an ordinance or regulatory mechanism to require proper construction site controls for sediment, erosion, and waste management at sites with land disturbance of one (1) or more acres. Additionally, construction activities disturbing less than one (1) acre are subject to this regulation if that activity is part of a common plan of development or sale that exceeds one (1) acre. Other mandatory control measure components are procedures for site plan review that considers potential water quality impacts; procedures for site inspection and enforcement; and procedures for the receipt and consideration of information submitted by the public.

Construction activities (such as clearing vegetation and excavating, moving, and compacting earth and rock) significantly change the land surface. The consequences of construction activities during rain events include: reduced stormwater infiltration, increased runoff volume and intensity, and higher soil erosion rates. While sediment and other pollutants are readily mobilized by precipitation during land disturbance activity, such discharges can be effectively prevented through the use of reasonable and effective erosion and sedimentation controls. Examples include the use of construction sequencing, and vegetative- or non-vegetative stabilization techniques.<sup>24</sup>

Local ordinances and requirements are key to ensuring that construction site operators use appropriate techniques to prevent pollutant discharges to the MS4s. Although discharges from all construction sites disturbing one or more acres in Idaho are independently subject to the *NPDES General Permit for Storm Water Discharges from Construction Activity*, #IDR120000 (Construction General Permit or CGP), it is appropriate for the MS4 operators to directly impose local construction site management requirements to prevent construction-related pollutants from entering the MS4s.

In their permit application, ITD2 describes their responsibility for construction activities related to its road and drainage system and their oversight of construction activities through contracts that specify appropriate storm water management. ITD staff review site plans for proper controls, perform inspections, and enforce the contracts if controls are not implemented. Relevant ITD manuals are used to define appropriate erosion, sediment and onsite materials management.

As previously noted, the EPA recognizes that ITD2 is only responsible for the construction and maintenance of state highways in their jurisdiction, and does not have legal authority to enact enforceable ordinances. ITD2 may cite their existing policies, design manuals, standard specifications for highway construction, construction contracts, bid documents, cooperative agreements, and/or other legal means of ensuring that construction projects that impact the ITD right-of-ways are appropriately controlled to reduce pollutant discharges through their MS4.

Individual components of the Permit's Construction Site Runoff Control Measure are described below:

- Permit Part 3.3.1 establishes a compliance deadline of 180 days before the Permit expiration date for the Permittee to update its existing programs, if needed, to impose any new or revised control components in the Permit Area. This provision also defines the date by which any ACM Request must be submitted.

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<sup>24</sup> EPA 1999, pages 68758-68759; EPA 2009a, pages 7-3 through 7-26.

- Permit Part 3.3.2 outlines the expected scope of the Permittee’s legal mechanism to reduce and prevent runoff from construction sites in its jurisdiction that disturb one (1) acre or more.
- Permit Part 3.3.3 requires written specifications to define appropriate site level controls for construction activities within the Permittee’s jurisdiction. The EPA clarifies that the type and extent of site-level erosion, sediment, and waste management controls will likely be different depending on site size and location. Therefore, the Permittee has the discretion to determine how best to control sediment and other pollutants in runoff from different sized construction sites.
- Permit Part 3.3.4 requires a preconstruction site plan review process to address construction site activity that will result in land disturbance of one (1) or more acres, and includes consideration of public input. This review can be conducted using a checklist or similar process to consider and address potential water quality impacts from the site activities.
- Permit Part 3.3.5 requires the Permittee to conduct prioritized construction site inspections and to enforce the applicable requirements as needed. At a minimum, the Permittee must inspect and enforce their requirements at construction sites occurring in their jurisdictions that disturb one (1) or more acres.
- Permit Part 3.3.6 requires the Permittee to have a written enforcement response policy or plan to guide and prioritize their oversight, inspection, and enforcement efforts.
- Permit Part 3.3.7 requires the Permittee to provide proper training for construction staff conducting plan review and inspections.

#### **2.4.4 Post Construction Stormwater Management from New Development and Redevelopment**

Permit Part 3.4 requires the Permittee to implement and enforce a program to control runoff from new development and redevelopment project sites, including projects involving streets and roads.

Pursuant to 40 CFR § 122.34(b)(5), these controls must be imposed, at a minimum, at new development and redevelopment sites disturbing one (1) or more acres and at sites less than one (1) acre, which are part of a common plan of development or sale that exceeds one (1) acre. The Permittee must address runoff from new development and redevelopment projects using a locally appropriate combination of structural and/or non-structural BMP requirements.<sup>25</sup> Further, the Permittee must enforce the requirements using an ordinance or other regulatory mechanism, to the extent allowable under state or local law, and ensure the adequate long-term operation and maintenance of these BMPs.<sup>26</sup>

The Permit uses the term “permanent stormwater controls” instead of “post-construction stormwater management controls” to mean those controls that will treat or control pollutants in stormwater runoff from the development site on a permanent basis after

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<sup>25</sup> “Non-structural requirements” include, but are not limited to, planning, zoning, and other local requirements such as buffer zones. “Structural controls” include, but are not limited to, the use of storage, infiltration basins, or vegetative practices such as rain gardens or artificial wetlands. See: 40 CFR§122.34(b)(5)(iii).

<sup>26</sup> See EPA 2012; EPA 2009; and 40 CFR §122.34(b)(5).

construction is complete. This terminology is consistent with other MS4 permits issued by the EPA Region 10 since 2012.

In its permit application ITD2 identified that the following documents describe criteria for the design and operation of the structural controls that collect, convey, store, treat, or discharge storm water runoff from ITD roadways and bridges: *ITD's Design Manual*, *ITD Standard Specifications for Highway Construction*, *ITD Maintenance Operations Procedures Manual*, *ITD Maintenance Manual*, and the *Catalog of Storm Water Best Practices for Highway Construction and Maintenance*. The EPA understands ITD2's jurisdictional authority and cooperative agreements with the City. To ensure that these minimum requirements apply to relevant areas of the ITD2 jurisdiction, and are comparable to the City's MS4 permit, the EPA believes it is still appropriate to include in the Permit all of the following control measure components listed below:

- Permit Part 3.4.1 establishes a compliance deadline of 180 days before the Permit expiration date to refine the existing runoff control program, if needed, to impose any new SWMP control measure components in the Permit Area. This timeframe is justified to allow the ITD2 the flexibility to adjust their existing programs as necessary. This provision also defines the date by which any ACM Request must be submitted.
- Permit Part 3.4.2 requires the Permittee to update their legal regulatory mechanism to incorporate an onsite stormwater retention standard, or require treatment equivalent to the onsite retention standard, for new development and redevelopment sites. The purpose of this requirement is to prevent the creation of excess stormwater discharges, and pollutant loadings, from the impervious surfaces associated with the urban development. Use of onsite stormwater management controls at such sites will reduce pollutants in regulated MS4 discharges to the MEP and proactively protect Idaho receiving waters by ensuring that water quality protections continue over the long term.

Additional rationale for including the requirement for onsite retention of stormwater runoff from new development and redevelopment is provided Appendix 4 of this Fact Sheet.

Permit Part 3.4.2 also allows for alternative mitigation in situations where complete onsite retention of the target runoff volume is infeasible. The Permittee may apply an alternative standard if it is deemed to be equally protective, or more protective, of the onsite stormwater management design standard as articulated in the Permit. For example, alternative local compliance with the Permittees' calculated stormwater management design standard could take the form of off-site mitigation or payment in lieu programs. The Permittees could consider creating an inventory of appropriate alternative stormwater management techniques, and/or using planning mechanisms (such as completed sub-watershed plans or other appropriate means) to identify priority areas within sub-watersheds of their jurisdiction(s) where off-site mitigation, and/or public stormwater mitigation projects, could be implemented.

- Permit Part 3.4.3 requires the Permittee to maintain written specifications for the permanent stormwater controls allowed by the Permittee at development sites within their jurisdiction. These specifications must be utilized at sites disturbing at least one (1) or more acres.

- Permit Part 3.4.4 requires the Permittee to review and approve site plans for permanent stormwater controls at sites resulting from land disturbance of one (1) or more acres. Specific standards are a critical component of the program, but even the best local requirements must be supported by a review component to ensure that the locally established performance standards are met. To comply with this requirement, the Permittee must have the authority to withhold approvals when it determines that the controls at a specific site are not designed to meet established standards for permanent stormwater control.
- Permit Part 3.4.5 outlines the requirement for the Permittee to inspect and enforce its requirements for permanent stormwater controls at sites resulting from land disturbance of one or more acres. Inspection of permanent control measures is key to ensuring water quality protection over the long term. Without periodic inspection or maintenance, the permanent controls can instead become pollutant sources, rather than a means of prevention. An effective local inspection process, combined with appropriate enforcement if necessary, ensures that onsite controls are built according to approved plans and specifications, and use proper materials and installation techniques. The EPA expects the Permittee to prioritize its inspection and enforcement to include any new permanent stormwater controls installed after the Permit effective date.
- Permit Part 3.4.6 requires the Permittee to ensure the long-term operation and maintenance (O&M) of permanent stormwater controls through the use of a database inventory to track and manage the operational condition of permanent stormwater controls within its jurisdiction. This database inventory can take the form of a computerized maintenance management system or asset management system that allows for the electronic logging of O&M tasks. Ongoing O&M is necessary to ensure that the BMPs will perform as designed over time. Inadequate maintenance of existing stormwater management controls is a primary shortcoming for most local SWMPs across the country. As with any infrastructure, deferred maintenance can increase costs and negatively affect receiving waters. Unmaintained BMPs will ultimately fail to perform their design functions, and can become a nuisance and/or pose safety problems.<sup>27</sup> The Permittee must track those permanent controls which are known to them, or for which they accept ownership, beginning no later than the Permit effective date.
- Permit Part 3.4.7 requires the Permittee to ensure that their staff are sufficiently trained and/or qualified to review site plans for permanent stormwater controls, and/or for inspecting the installation and operation of permanent stormwater controls.

#### **2.4.5 Pollution Prevention and Good Housekeeping for MS4 Operations**

As noted above, O&M is an integral part of any SWMP, and, when coupled with good housekeeping and pollution prevention principles, reduces the risk of water quality problems from MS4 discharges. The minimum requirements for this control measure are set forth in 40 CFR § 122.34(b)(6), which includes the implementation of an O&M program “intended to prevent or reduce pollutant runoff from municipal operations” and an employee training program. The EPA has also included requirements for site-specific

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<sup>27</sup> NRC 2008; Shaver, et al 2007.

stormwater pollution prevention plans (SWPPPs) at the Permittee's own maintenance buildings and similar facilities that discharge stormwater into the MS4.

Permit Part 3.5 requires the Permittee to properly operate and maintain their MS4s, actively manage runoff from Permittee owned and/or operated facilities, and conduct their municipal activities to prevent or reduce the discharge of pollutants from the MS4.

The EPA acknowledges that the Cooperative Agreement between ITD2 and the City delegates much of the responsibility for O&M of the MS4 along the state highways to the City; however, in light of the O&M responsibilities that ITD2 retains, the Permit requirements described below are relevant and necessary to protect water quality. See also the discussion of shared responsibility in Section 2.3 of this Fact Sheet.

The Permittee must focus on maintenance of their MS4 to protect water quality. Due to the diverse nature of MS4 facilities, ensuring appropriate inspection and maintenance schedules are in place for all types of infrastructure/facility is both relevant and necessary. O&M procedures should include some manner or protocol for testing and safely disposing of waste materials and any associated decant water collected from catch basins or other MS4 infrastructure.

Individual SWMP control measure components under the Pollution Prevention/Good Housekeeping control measure in Part 3.5 are reasonable, practicable, and consistent with other MS4 permits issued by the EPA Region 10 since 2012. The specific requirements are summarized below:

- Permit Part 3.5.1 establishes a compliance deadline of 180 days before the Permit expiration date for the Permittee to update its existing program(s), and/or to impose any new program components, in the Permit Area. The EPA believes this timeframe is justified to allow the Permittee adequate opportunity to adjust its existing programs, as necessary, and ensure the required actions are sufficiently addressed in the Permit Area. This provision also defines the date by which any ACM Request(s) must be submitted.
- Permit Part 3.5.2 outlines requirements for the inspection of all Permittee catch basins and inlets within the MS4 service area at least once every five years, and requires appropriate cleaning and/or maintenance activities based on the findings of those inspections.

Because roads and streets function as an integral part of the drainage conveyance systems within the Permit Area, and other Urbanized Areas of Idaho, the EPA has included explicit provisions for appropriate stormwater management through O&M activities for roads, streets, highways and parking lots.

- Permit Part 3.5.3 requires the Permittee to review and update their O&M procedures for streets, roads, highways, and parking lots that are owned, operated, and/or maintained by the Permittee to ensure procedures are protective of water quality and reduce the discharge of pollutants through the MS4.

Permit Part 3.5.3 requires the Permittee to review and update its O&M procedures for streets, roads, highways, and parking lots that are owned, operated, and/or maintained by the Permittee to ensure procedures continue to be protective of water quality and reduce the discharge of pollutants through the MS4. Permit Part 3.5.3.3 also requires the Permittee to consider using water conservation measures for all landscaped areas associated with streets, roads, highways, and parking lots to

prevent landscape irrigation water from discharging through the MS4. Excessive landscape watering can contain fertilizers and other compounds that, when discharged through the MS4, can increase nitrogen and phosphorus loading to impaired waters. Landscape irrigation can be considered an allowable non-stormwater discharge only when it is not a source of pollution under the Idaho WQS. See Permit Part 2.4. Permit.

- Part 3.5.4 requires the Permittee with street maintenance responsibilities to ensure that road material stockpiles (such as sand, salt, or sand with salt stockpiles) are managed in a manner that prevents pollutants from discharging to the MS4 or into any receiving water. An inventory of all such street materials must be maintained. No later than 180 days prior to the Permit expiration date, as part of the Permit Renewal Application required by Permit Part 8.2, the Permittee must assess their Material Storage Locations for water quality impacts, and must describe any structural or non-structural improvements made by the Permittee to prevent runoff from discharging to the MS4 or directly to a receiving water.
- Permit Part 3.5.5 requires the Permittee with street, road, highway and parking lot responsibilities to document the adequacy of their sweeping activities through a sweeping management plan. A Permittee without street sweeping responsibilities does not have an obligation to comply with this provision.
- Permit Part 3.5.6 requires the Permittee to review and update their O&M procedures for a variety of other typical municipal activities to ensure procedures protect water quality and reduce the discharge of pollutants through the MS4.
- Permit Part 3.5.7 requires the Permittee to ensure that their staff, and others operating in public areas owned and/or operated by the Permittee, are appropriately handling and/or using pesticides, herbicides, and fertilizers used within the Permit Area. This provision is consistent with the *NPDES General Permit for Discharges from The Application of Pesticides, for the State of Idaho*, NPDES Permit No. IDG870000.
- Permit Part 3.5.8 requires the Permittee to manage onsite materials at their maintenance yards and to prevent pollutants in runoff through use of SWPPPs. Plans developed for such locations can use the basic SWPPP framework identified in various EPA guidance materials, and may follow a “template plan” to establish basic requirements that can be tailored to the location/responsible staff.
- Permit Part 3.5.9 requires the Permittee to work cooperatively to reduce litter in their jurisdictions to prevent the conveyance of trash and other material through the MS4.
- Permit Part 3.5.10 requires the Permittee to ensure appropriate training for responsible staff such that O&M activities are conducted properly and with attention to prevent potential water quality impacts.

## **2.5 Requirements for Discharges to Water Quality-Impaired Receiving Waters [Reserved]**

As described in Sections 1.3.3 and 1.6.2 of this Fact Sheet, the MS4 operated by ITD2 discharges to the Clearwater Arm of the LGDP, which is not considered impaired by IDEQ. As a result, the EPA is not proposing that ITD2 conduct any additional activities beyond the SWMP control measures identified in Permit Part 3. Further discussion of the receiving water quality status of the LGDP is provided in Appendix 6 of this Fact Sheet. In the event that new information becomes available, and the EPA determines that ITD2

must conduct additional actions to address pollutants in their MS4 discharges, the EPA will follow the permit modification requirements of 40 CFR § 122.62, and may revise Permit Part 4 to include any additional requirements.

## **2.6 Requirements for Excursions above the Idaho Water Quality Standards**

Permit Part 5 sets forth requirements for the Permittee to report and address excursions above the Idaho WQS as directed by Permit Part 2.1. The EPA has outlined an adaptive management approach for use when there are ongoing discharges from the MS4 that cause or contribute to excursions above the applicable Idaho WQS and are not being addressed by other SWMP control measure requirements.

Permit Part 5 provides the Permittee with the opportunity to use adaptive management principles to scope corrective action steps to address ongoing, prolific pollutant source(s). Where such solutions may involve structural controls, require capital expenditures, and/or that necessitate long term planning and implementation schedules, Permit Part 5 provides opportunity for the Permittee to define and articulate such long-range investment plans.

The EPA supports robust long-term planning for stormwater management by MS4 communities, and recognizes that the most successful stormwater planning uses multi-benefit approaches to solve stormwater pollution control challenges. It also recognizes that for a plan to be more affordable, communities need to make financial investments over a time horizon of sufficient length to allow for cost efficiencies through working with other municipal programs.<sup>28</sup>

Any Permittee that submits information pursuant to Permit Part 5 will be prompted to report on their incremental progress towards their identified milestones in both their Annual Report, and as part of a complete Permit Renewal Application

## **2.7 Monitoring, Recordkeeping and Reporting Requirements**

Consistent with 40 CFR § 122.34(d), Permit Part 6 requires that the Permittee evaluates program compliance, keep records, and submit Annual Reports. Furthermore, Section 308 of the CWA, federal regulation 40 CFR § 122.44(i), and subsequent EPA guidance requires monitoring, where necessary, to determine compliance with terms and conditions of a NPDES permit.

### **2.7.1 Compliance Evaluation**

Permit Part 6.1 requires the Permittee to assess their compliance with the Permit requirements annually and to document the evaluation through the submittal of an Annual Report. The EPA has provided a concise "fillable PDF" Annual Report format for use during the Permit term. The five-year permit term will coincide with the EPA's national transition to online reporting for MS4 permits; this transition is expected to be accomplished no later than December 2020. Once primacy for the NPDES stormwater permit program is transferred to IDEQ, the Permittee may negotiate different reporting frequencies in the subsequent MS4 permit, pursuant to 40 CFR § 122.34(d)(3).<sup>29</sup>

### **2.7.2 Monitoring and/or Assessment Activities**

As discussed in Section 2.5 of this Fact Sheet, the MS4 operated by ITD2 does not

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<sup>28</sup> EPA 2016e.

<sup>29</sup> EPA 2015c.

discharge to impaired waterbodies, and therefore the EPA is not proposing that ITD2 conduct any monitoring and/or assessment activities at this time.

The portion of the LGDP where the ITD2 MS4 discharges is considered designated critical habitat area for threatened and endangered species, specifically bull trout, Chinook and sockeye salmon, and steelhead trout. The LGDP is also considered essential fish habitat for Chinook and coho salmon. The EPA is completing a biological evaluation of potential effects on these ESA listed species resulting from its issuance of the Permit. The EPA will consult with NOAA-Fisheries and USFWS as required by the ESA. Additional requirements, in the form of monitoring and/or other SWMP actions, may be added to the Permit based on the results of the EPA's consultation. In the event additional actions are required, the EPA will follow the permit modification requirements of 40 CFR § 122.62.

If EPA modifies the Permit in the future, Permit Part 6.2 would be the place where the EPA would insert specific requirements for how ITD2 must conduct any monitoring/assessment activities.

### **2.7.3 Recordkeeping and Reporting**

Permit Part 6.3 requires the Permittee to keep all records associated with the Permit for a period of at least five years, and submit such records only when requested by the EPA. The Permittee must ensure that SWMP materials are available to the public, and they may charge a reasonable fee for copies and/or require a member of the public to provide advance notice of their request. As previously noted, Permit Part 3.1 requires the Permittee to provide their SWMP Document to the public electronically via one or more dedicated websites.

Permit Part 6.4 describes the overall reporting requirements, including and the schedule and required content for the Annual Reports, the final monitoring/assessment reports, and the pollutant reduction activity reports. At a minimum, Permittee must submit Annual Reports of progress to both the EPA and IDEQ using the recommended Annual Report format provided in the Permit Appendix no later than 60 days after the close of relevant reporting period. The Annual Report format will prompt the Permittee for appropriate information according to compliance dates specified in the final Permit.

No later than December 21, 2020, all NPDES reports submitted in compliance with an applicable permit must be submitted electronically through the EPA's national electronic reporting system. However, the MS4 Permit program is one of the last types of NPDES permits to be accommodated by this new system.<sup>30</sup> Until the electronic system is available, the Permittee must submit signed versions of their Annual Reports to the EPA and IDEQ addresses provided in the Permit.

## **2.8 Standard Permit Conditions**

Permit Parts 7 and 8 contain standard regulatory language that must be included in all NPDES permits. The standard regulatory language addresses compliance responsibilities, and other general requirements. Although certain provisions may not strictly apply to MS4 facilities (for example, the upset or bypass provisions), it is mandatory that each of the standard provisions be included in a NPDES permit. Such provisions have been included in other Idaho MS4 NPDES permits issued by the EPA

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<sup>30</sup> EPA 2015c.



since 2012. The EPA notes that if a particular provision in Permit Parts 7 or 8 does not apply to the Permittee's MS4 discharges or facilities, the Permittee does not need to comply with that provision.

#### **2.8.1 Duty to Reapply**

In accordance with 40 CFR § 122.46(a), NPDES permits are in effect for a fixed term not to exceed five (5) years. Permit Part 8.2 requires the Permittee to submit an NPDES permit renewal application no later than 180 days before the Permit expiration date if it intends to continue operational control and management of MS4 discharges after the Permit expiration date.

Because there are no NPDES application forms for the MS4 permit program, Permit Part 8.2.1 describes the expected content of a complete Permit Renewal Application. The deadline for the Permit Renewal Application (180 days before the permit expiration date) corresponds to the Permit's implementation/compliance dates; therefore, as part of any request for continued permit coverage, the Permittee must submit the attachments listed in Permit Part 8.2.1 to demonstrate how they have complied with the current Permit requirements. The Permittee must submit a 5th Year Annual Report, by the Permit expiration date, using the format provided in the Permit. In the event that a new permit is not issued on or before the Permit expiration date, any Permittee that has submitted a Permit Renewal Application in accordance with Part 8.2, may be authorized to continue discharging under an administrative extension of the Permit. If the Permittee is granted an administrative extension, they must continue to adhere to the terms and conditions of the Permit, which includes submitting the Annual Report(s) by the anniversary of the Permit expiration date, until coverage under a reissued or replacement Permit is available.

### **3 Other Legal Requirements**

#### **3.1 Environmental Justice**

Executive Order 12898, *Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations*, directs each federal agency to "make achieving environmental justice part of its mission by identifying and addressing, as appropriate, disproportionately high, and adverse human health or environmental effects of its programs, policies, and activities." The EPA strives to enhance the ability of overburdened communities to participate fully and meaningfully in the permitting process for EPA-issued permits, including NPDES permits. "Overburdened" communities can include minority, low-income, tribal, and indigenous populations, or communities that potentially experience disproportionate environmental harms and risks. As part of an agency-wide effort, the EPA Region 10 will prioritize enhanced public involvement opportunities for EPA-issued permits that may involve activities with significant public health or environmental impacts on already overburdened communities. For more information, please visit <https://www.epa.gov/environmentaljustice/learn-about-environmental-justice>

As part of the permit development process, the EPA Region 10 conducted a screening analysis to determine whether the Permit action could affect overburdened communities. The EPA uses a nationally consistent geospatial tool that contains demographic and environmental data for the United States at the Census block group level. This tool is used to identify permits for which enhanced outreach may be warranted.

Based on this screening, the Lewiston Urbanized Area is identified as an area where potentially overburdened communities reside. In order to ensure that individuals in this area are able to participate meaningfully in the NPDES permit process, the EPA will work to ensure that interested stakeholders in the area, and throughout the state, are informed and able to provide their input on appropriate local stormwater management activities.

The EPA encourages all MS4 Permittees to review (and to consider adopting, where appropriate) *Promising Practices for Permit Applicants Seeking EPA-Issued Permits: Ways To Engage Neighboring Communities* as described in the EPA document available at <https://www.federalregister.gov/articles/2013/05/09/2013-10945/epa-activities-to-promote-environmental-justice-in-the-permit-application-process#p-104>.

### 3.2 Endangered Species Act

The Endangered Species Act (ESA) requires federal agencies to consult with the

Protected Species(Scientific Name)	Status	Critical Habitat	
		Status	Overlap with Lewiston UA
<b>Responsible Agency – NMFS</b>			
<b>Fish</b>			
Snake River fall-run Chinook salmon ESU ( <i>Oncorhynchus tshawytscha</i> )	Threatened	Designated	Yes
Snake River spring/summer-run Chinook salmon ESU ( <i>O. tshawytscha</i> )	Threatened	Designated	Yes
Snake River sockeye salmon ESU ( <i>O. nerka</i> )	Endangered	Designated	Yes
Snake River Basin steelhead trout (DPS) ( <i>O. mykiss</i> )	Threatened	Designated	Yes
<b>Responsible Agency – USFWS</b>			
<b>Plants</b>			
Spalding's catchfly ( <i>Silene spaldingii</i> )	Threatened	N/A	N/A
<b>Fish</b>			
Bull trout ( <i>Salvelinus confluentus</i> )	Threatened	Designated	Yes

National Oceanic and Atmospheric Administration – National Marine Fisheries Service (NOAA Fisheries) and the U.S. Fish and Wildlife Service (USFWS) regarding potential effects an action may have on listed endangered species.

The EPA reviewed current maps and species lists from both NOAA Fisheries and USFWS, and the endangered and threatened species in the vicinity of the Lewiston Urbanized Area are summarized in Table 3. As required by the ESA, the EPA is completing a Biological Evaluation to determine the effects of EPA's issuance of the permit for ITD2's MS4 discharges on these species, and will consult with NOAA-Fisheries and USFWS as required by the ESA.

**Table 3. Protected Species and Critical Habitat Evaluated in the Lewiston Urbanized Area**

### 3.3 Essential Fish Habitat

Essential fish habitat (EFH) is the waters and substrate (sediments, etc.) necessary for fish spawning, breeding, feeding, or growing to maturity. The Magnuson-Stevens Fishery Conservation and Management Act (MSFCMA) requires the EPA to consult with the

NOAA-Fisheries if a proposed action has the potential to adversely affect (by reducing the quality and/or quantity of) EFH.

The EPA is evaluating the effects on EFH for Chinook Salmon (*Oncorhynchus tshawytscha*) and Coho Salmon (*Oncorhynchus kisutch*) in the vicinity of the Lewiston Urbanized Area, and will consult with NOAA-Fisheries as required by the MSFCMA

### **3.4 National Historic Preservation Act**

Section 106 of the National Historic Preservation Act (NHPA) requires federal agencies to take into account the effects of federal undertakings on historic properties listed on, or eligible for listing on, the National Register of Historic Places. The term federal “undertaking” in NHPA regulations to include a project, activity, or program of a federal agency that can result on changes in the character or use of historic properties, if any historic properties are located in the area of potential effects for that project, activity or program. See 36 CFR § 802(o). Historic Properties include prehistoric or historic districts, sites, buildings, structures, or objects that are included in, or are eligible for inclusion in, the National Register of Historic Places. See 36 CFR § 802(e). Federal undertakings include the EPA’s issuance of a NPDES permit.

The EPA has determined that the reduction of pollutants in runoff through compliance with a MS4 discharge permit will not result in the disturbance of any site listed or eligible for listing in the National Historic Register. Therefore, the EPA believes that the actions associated with the Permit are also in compliance with the terms and conditions of the National Historic Preservation Act.

Pursuant to Permit Part 8.10, Permittees are reminded that they must comply with applicable state, Tribal and local laws, including those concerning protection of historic properties. If any permitted entity engages in any activity which meets all of the following criteria, then they must consult with and obtain approval from the State Historic Preservation Office prior to initiating the activity:

- The permitted entity is conducting the activity in order to facilitate compliance with the MS4 Permit;
- The activity includes excavation and/or construction; and
- The activity disturbs previously undisturbed land.

Examples of actions that may meet the above criteria include, but are not limited to: retention/detention basin construction; storm drain line construction; infiltration basin construction; dredging; and stabilization projects (e.g., retaining walls, gabions). The requirement to submit information on plans for future earth disturbing is not intended for activities such as maintenance and private development construction projects.

40 CFR § 122.49 lists the federal laws that may apply to the issuance of permits i.e., ESA, NHPA, the Coastal Zone Act Reauthorization Amendments (CZARA), NEPA, and Executive Orders, among others. The NEPA compliance program requires analysis of information regarding potential impacts, development, and analysis of options to avoid or minimize impacts; and development and analysis of measures to mitigate adverse impacts.

The EPA has not promulgated effluent limitation guidelines or new source performance standards specific to MS4 discharges. Therefore, MS4 permits are not subject the NEPA.

Idaho is not located in the U.S. coastal zone, so CZARA does not apply to the issuance of the Permit. In addition, the Permit will not authorize the construction of any water resources facility or the impoundment of any water body. No regulated small MS4s are located in areas with Wild and Scenic River designations. Therefore, the EPA determines that the Fish and Wildlife Coordination Act, 16 USC § 661 et seq., and the Wild and Scenic Rivers Act, 16 USC § 470 et seq., does not apply to the issuance of the Permit.

### **3.5 Permit Dates**

The Permit will expire five years from the effective date. As proposed, the Permit assumes an effective date of December 31, 2018. Compliance dates for SWMP control measure implementation, Annual Report submittals, etc., are tentatively identified in the Permit (in the upfront Schedule and in pertinent text) based on the final Permit's effective date.

During discussions Idaho stakeholders in late 2016 and early 2017 regarding preliminary draft MS4 documents, the EPA was reminded to remain cognizant of local government budget planning cycles (based on a fiscal year calendar October – September) when establishing implementation deadlines in the Permit. In response, the EPA previously considered calculating MS4 Permit compliance dates assuming an effective date of October 1. The EPA also notes that in this case, ITD2 is a state government entity with a fiscal year of July – June.

### **3.6 State Certification of the Draft Permit**

Section 401 of the CWA requires the EPA to seek State certification before issuing a final permit. As a result of the certification, the State may require more stringent permit conditions or additionally monitoring requirements to ensure that the permit complies with water quality standards, or treatment standards established pursuant to any State law or regulation. A copy of the draft 401 certification is provided in Appendix 1 of this Fact Sheet.

## **4 References Used in this Permitting Decision**

The following is a partial list of references supporting the development of the Permit; additional references are available in the Administrative Record for the permit action.

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EPA 2003. *Biological Evaluation of the Potlatch Corporation Pulp and Paper Mill National Pollutant Discharge Elimination System (NPDES) Permit (NPDES Permit No.: ID0001163) for the U.S. Fish and Wildlife Service and the NOAA Fisheries Region 10*, Seattle, Washington: United States Environmental Protection Agency.

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**APPENDIX 1 – CORRESPONDENCE FROM IDEQ REGARDING CWA  
§401 CERTIFICATION**



STATE OF IDAHO  
DEPARTMENT OF  
ENVIRONMENTAL QUALITY

1118 F Street • Lewiston, Idaho 83501 • (208) 799-4370  
www.deq.idaho.gov

C.L. "Butch" Otter, Governor  
John H. Tippets, Director

December 19, 2018

Mr. Michael J. Lidgard  
NPDES Permits Unit Manager  
EPA Region 10  
1200 Sixth Avenue, Suite 900  
Seattle, Washington 98101-3140

Subject: DRAFT 401 Water Quality Certification for the Idaho Transportation Department –  
District #2 Municipal Separate Sewer System (MS4), NPDES Permit #IDS028258

Dear Mr. Lidgard:

The Lewiston Regional Office of the Department of Environmental Quality (DEQ) has reviewed the above-referenced permit for the Idaho Transportation Department – District #2 MS4. Section 401 of the Clean Water Act requires that states issue certifications for activities which are authorized by a federal permit and which may result in the discharge to surface waters. In Idaho, the DEQ is responsible for reviewing these activities and evaluating whether the activity will comply with Idaho's Water Quality Standards, including any applicable water quality management plans (e.g., total maximum daily loads). A federal discharge permit cannot be issued until DEQ has provided certification or waived certification either expressly, or by taking no action.

This letter is to inform you that DEQ is issuing the attached Draft 401 certification subject to the terms and conditions contained therein.

Please contact me directly at 208-799-4370 to discuss any questions or concerns regarding the content of this certification.

Sincerely,

A handwritten signature in blue ink that reads "John Cardwell".

John Cardwell  
Regional Administrator  
Lewiston Regional Office

c: Misha Vakoc, EPA Region 10  
Loren Moore, DEQ State Office



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## Idaho Department of Environmental Quality Draft §401 Water Quality Certification

December 19, 2018

**NPDES Permit Number(s):** Idaho Transportation Department – District #2  
Municipal Separate Storm Sewer System, IDS028258

**Receiving Water Body:** Clearwater River – Lower Granite Dam Pool

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Pursuant to the provisions of Section 401(a)(1) of the Federal Water Pollution Control Act (Clean Water Act), as amended; 33 U.S.C. Section 1341(a)(1); and Idaho Code §§ 39-101 et seq. and 39-3601 et seq., the Idaho Department of Environmental Quality (DEQ) has authority to review National Pollutant Discharge Elimination System (NPDES) permits and issue water quality certification decisions.

Based upon its review of the above-referenced permit and associated fact sheet, DEQ certifies that if the permittee complies with the terms and conditions imposed by the permit along with the conditions set forth in this water quality certification, then there is reasonable assurance the discharge will comply with the applicable requirements of Sections 301, 302, 303, 306, and 307 of the Clean Water Act, the Idaho Water Quality Standards (WQS) (IDAPA 58.01.02), and other appropriate water quality requirements of state law.

This certification does not constitute authorization of the permitted activities by any other state or federal agency or private person or entity. This certification does not excuse the permit holder from the obligation to obtain any other necessary approvals, authorizations, or permits.

### Antidegradation Review

The WQS contain an antidegradation policy providing three levels of protection to water bodies in Idaho (IDAPA 58.01.02.051).

- Tier I Protection. The first level of protection applies to all water bodies subject to Clean Water Act jurisdiction and ensures that existing uses of a water body and the level of water quality necessary to protect those existing uses will be maintained and protected (IDAPA 58.01.02.051.01; 58.01.02.052.01). Additionally, a Tier I review is performed for all new or reissued permits or licenses (IDAPA 58.01.02.052.07).
- Tier II Protection. The second level of protection applies to those water bodies considered high quality and ensures that no lowering of water quality will be allowed unless deemed necessary to accommodate important economic or social development (IDAPA 58.01.02.051.02; 58.01.02.052.08).
- Tier III Protection. The third level of protection applies to water bodies that have been designated outstanding resource waters and requires that activities not cause a lowering of water quality (IDAPA 58.01.02.051.03; 58.01.02.052.09).

DEQ is employing a water body by water body approach to implementing Idaho's antidegradation policy. This approach means that any water body fully supporting its beneficial uses will be considered high quality (IDAPA 58.01.02.052.05.a). Any water body not fully supporting its beneficial uses will be provided Tier I protection for that use, unless specific circumstances warranting Tier II protection are met (IDAPA 58.01.02.052.05.c). The most recent federally approved Integrated Report and supporting data are used to determine support status and the tier of protection (IDAPA 58.01.02.052.05).

### ***Pollutants of Concern***

The Idaho Transportation Department – District #2 discharges the following pollutants of concern: sediment, nutrients, heat, chlorides, metals, petroleum hydrocarbons, microbial pollution (*Escherichia coli*) and organic chemicals (pesticides and industrial chemicals).

### ***Receiving Water Body Level of Protection***

The Idaho Transportation Department – District #2 discharges to the Clearwater River – Lower Granite Dam Pool within the Clearwater Subbasin assessment unit (AU) ID17060306CL001\_07 (Lower Granite Dam Pool). This AU is designated for cold water aquatic life, primary contact recreation, and domestic water supply beneficial uses. In addition to these uses, all waters of the state are protected for agricultural and industrial water supply, wildlife habitat, and aesthetics (IDAPA 58.01.02.100).

According to DEQ's 2014 Integrated Report, this receiving water body AU is fully supporting its assessed uses (IDAPA 58.01.02.052.05.a). As such, DEQ will provide Tier II protection in addition to Tier I for this water body (IDAPA 58.01.02.051.02; 58.01.02.051.01).

### ***Protection and Maintenance of Existing Uses (Tier I Protection)***

A Tier I review is performed for all new or reissued permits or licenses, applies to all waters subject to the jurisdiction of the Clean Water Act, and requires demonstration that existing and designated uses and the level of water quality necessary to protect existing and designated uses shall be maintained and protected. In order to protect and maintain existing and designated beneficial uses, a permitted MS4 discharge must reduce the discharge of pollutants to the maximum extent practicable. The terms and conditions contained in the Idaho Transportation Department – District #2 permit and this certification require the permittee to reduce the discharge of pollutants to the maximum extent practicable.

Specific terms and conditions of the permit aimed at providing a Tier I level of protection include (Permit part 2 & 3):

- A prohibition on snow disposal directly to surface waters;
- Specific prohibitions for non-stormwater discharges;
- Requirements to develop a stormwater management plan with the following control measures:
  - Public education and outreach,

- Illicit discharge detection and elimination,
  - Construction site stormwater runoff controls,
  - Dry weather outfall screening program,
  - Post-construction stormwater management for new development and redevelopment,
  - Pollution prevention/good housekeeping for MS4 operations;
- The stipulation that if either EPA or DEQ determine that an MS4 causes or contributes to an excursion above the water quality standards, the permittee must take a series of actions to remedy the situation.

If the MS4 discharge causes or contributes to an excursion above the applicable Idaho WQS, Part 5 of the permit requires corrective action and adaptive management as needed to address the source of pollutants. This response plan will improve the response time to an exceedance and require the permittee to evaluate and determine the effectiveness of their best management practices.

In summary, the terms and conditions contained in the Idaho Transportation Department – District #2 permit will reduce the discharge of pollutants to the maximum extent practicable. Therefore, DEQ has determined the permit will protect and maintain existing and designated beneficial uses in the Clearwater River – Lower Granite Dam Pool in compliance with the Tier I provisions of Idaho’s WQS (IDAPA 58.01.02.051.01 and 58.01.02.052.07).

### ***High-Quality Waters (Tier II Protection)***

The Clearwater River – Lower Granite Dam Pool is considered high quality for cold water aquatic life and primary contact recreation. As such, the water quality relevant to cold water aquatic life and primary contact recreation uses of the Clearwater River – Lower Granite Dam Pool must be maintained and protected, unless a lowering of water quality is deemed necessary to accommodate important social or economic development.

To determine whether degradation will occur, DEQ must evaluate how the permit issuance will affect water quality for pollutants relevant to cold water aquatic life and primary contact recreation uses of the Clearwater River – Lower Granite Dam Pool (IDAPA 58.01.02.052.05). These include sediment, nutrients, heat, chlorides, metals, petroleum hydrocarbons, microbial pollution (*Escherichia coli*) and organic chemicals (pesticides and industrial chemicals).

For a new permit or license, the effect on water quality is determined by reviewing the difference between the existing receiving water quality and the water quality that would result from the activity or discharge as proposed in the new permit or license (IDAPA 58.01.02.052.06.a). NPDES permits for regulated small municipal separate storm sewer systems (MS4s) must include terms and conditions to reduce the discharge of pollutants to the maximum extent practicable, to protect water quality, and to satisfy the appropriate water quality requirements under the Clean Water Act. “Maximum extent practicable” is the statutory standard that describes the level of pollutant reduction that MS4 operators must achieve. The proposed MS4 permit relies on practices to identify and reduce discharge of pollutants to the maximum extent practicable (Permit parts 2 & 3). The Idaho Transportation Department – District #2 must map their MS4 and all associated outfalls (Permit part 3.2.2). Further, the permittees’ implementation

of these practices must be documented in annual reports to EPA and DEQ and is subject to review and on-site inspections. To ensure discharged stormwater will not degrade receiving waters, the permittee is required to manage the effectiveness of these stormwater management practices, monitor discharge and, if necessary, adapt its management practices.

Pollutant reductions should be realized as each element of the stormwater management plan is developed and implemented during the permit cycle. Stormwater control measures, when designed, constructed, and maintained correctly have demonstrated the ability to reduce runoff, erosive flows, and pollutant loadings.<sup>1</sup> Due to the nature of MS4 permits, implementation requires investigating and resolving complaints; continual discovery of pollutant sources; use, monitoring, and refinement of BMPs; and additional knowledge through training opportunities.

This level of scrutiny and effort combined with requirements to address pollution sources should lead to improved water quality the longer the permit is in effect and should result in minimal to no adverse change in existing water quality significant to recreational and aquatic life uses. Therefore, DEQ has reasonable assurance that at a minimum, no degradation will result from the discharge of pollutants from the Idaho Transportation Department – District #2 MS4.

In summary, DEQ concludes that this discharge permit complies with the Tier II provisions of Idaho's WQS (IDAPA 58.01.02.051.02 and IDAPA 58.01.02.052.06).

## **Conditions Necessary to Ensure Compliance with Water Quality Standards or Other Appropriate Water Quality Requirements of State Law**

### ***Best Management Practices***

Best management practices must be designed, implemented, monitored, and maintained by the permittee to fully protect and maintain the beneficial uses of waters of the United States and to improve water quality at least to the maximum extent practicable.

When selecting best management practices the permittee must consider and, if practicable, utilize practices identified in the Idaho Department of Environmental Quality Catalog of Stormwater Best Management Practices for Idaho Cities and Counties (<http://www.deq.idaho.gov/media/622263-Stormwater.pdf>).

### ***Reporting of Discharges Containing Hazardous Materials or Deleterious Material***

All spills of hazardous material, deleterious material or petroleum products which may impact waters (ground and surface) of the state shall be immediately reported. Call 911 if immediate assistance is required to control, contain or clean up the spill. If no assistance is needed in cleaning up the spill, contact the Lewiston Regional Office at 208-799-4370 during normal working hours or Idaho State Communications Center after normal working hours. If the spilled volume is above federal reportable quantities, contact the National Response Center.

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<sup>1</sup> Urban Stormwater Management in the United States, National Research Council, 2008

For immediate assistance: Call 911

National Response Center: (800) 424-8802

Idaho State Communications Center: (800) 632-8000

## **Other Conditions**

This certification is conditioned upon the requirement that any material modification of the permit or the permitted activities—including without limitation, any modifications of the permit to reflect new or modified TMDLs, wasteload allocations, site-specific criteria, variances, or other new information—shall first be provided to DEQ for review to determine compliance with Idaho WQS and to provide additional certification pursuant to Section 401.

## **Right to Appeal Final Certification**

The final Section 401 Water Quality Certification may be appealed by submitting a petition to initiate a contested case, pursuant to Idaho Code § 39-107(5) and the “Rules of Administrative Procedure before the Board of Environmental Quality” (IDAPA 58.01.23), within 35 days of the date of the final certification.

Questions or comments regarding the actions taken in this certification should be directed to Sujata Connell, Lewiston Regional Office at 208-799-4370 or via email at [Sujata.Connell@deq.idaho.gov](mailto:Sujata.Connell@deq.idaho.gov).

DRAFT

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John Cardwell  
Regional Administrator  
Lewiston Regional Office





## APPENDIX 2 – STATUTORY AND REGULATORY OVERVIEW

### Pollutants Typically Found in Urban Runoff

Stormwater is the surface runoff that results from rain and snow melt. Urban development alters the landscape's natural infiltration, and human activity generates pollutants that accumulate on paved or impervious surfaces. Uncontrolled pollutants and flow associated with stormwater discharges from urban areas can negatively affect water quality. Contaminants enter stormwater from a variety of sources in the urban landscape. Urban stormwater is often a contributing factor where there is a water quality standard impairment in a particular water body. Stormwater or urban runoff typically contains a mixture of pollutants, including the following major constituents:

- Sediment;
- Nutrients (nitrogen and phosphorus);
- Chlorides;
- Trace metals;
- Petroleum hydrocarbons;
- Microbial pollution; Organic chemicals (pesticides, herbicides, and industrial); and
- Temperature.<sup>31</sup>

An increase in impervious surface cover will increase the amount of runoff. Effects of runoff generally take one of two forms. First, an increase in the type and quantity of pollutants in stormwater runoff, where these pollutants become suspended in runoff and are carried to receiving waters, and can impair the aquatic life uses of these waters. The second kind of runoff effect occurs by increasing the quantity of water delivered to the water body as a result of storms. Increased impervious surface area (such as, parking lots, driveways, and rooftops) interrupts the natural process of gradual percolation of water through vegetation and soil, and the water that would percolate under natural conditions may instead be discharged through the MS4. The effects of this alteration include streambank scouring and downstream flooding, which can affect aquatic life and damage property.<sup>32</sup>

### Statutory and Regulatory Background for the MS4 Permit Program

The federal Clean Water Act (CWA) Section 402(p), 33 U.S.C. § 1342(p) and the National Pollutant Discharge Elimination System (NPDES) stormwater regulations establish permit requirements for regulated MS4 discharges. Section 402(p)(3)(B) of the CWA, 33 U.S.C. §1342(p)(3)(B) requires any NPDES permit for MS4 discharges to effectively prohibit non-precipitation related flows from entering the MS4, and require controls to reduce the discharge of pollutants to the maximum extent practicable (MEP), including management practices, control techniques, and system design and engineering methods, and such other provisions determined to be appropriate by the NPDES permitting authority.

Definitions of relevant terms, such as “*municipal separate storm sewer*,” and “*small MS4*,” are found at 40 CFR §122.26(b). In general, a *municipal separate storm sewer* includes any publicly-owned conveyance or system of conveyances that discharges to waters of the United States, is

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<sup>31</sup> Shaver, Horner, et al. 2007; EPA 1990; EPA 1999a, and EPA 1999b..

<sup>32</sup> USGS and EPA, 2015, page 61.

designed or used for collecting and conveying stormwater, is not a combined sewer, and is not part of a publicly owned treatment works. A *municipal separate storm sewer system*, or MS4, includes roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, and/or storm drains.<sup>33</sup>

In 1990, EPA developed the first phase of federal stormwater regulations as directed by the CWA. The “Phase I” regulations established NPDES permit application and related requirements for discharges from large MS4s and medium MS4s. The Phase I regulation identified the large- and medium MS4s nationally based on the 1990 Census population. Based on the 1990 Census in Idaho, the Phase I stormwater regulations automatically designated MS4 operators discharging within the boundaries of Garden City and Boise as medium MS4s.<sup>34</sup>

In 1999, EPA developed the “Phase II” stormwater regulations, and designated additional small MS4s as needing NPDES permits. Regulated small MS4s include any MS4 discharge not already covered by Phase I that is located (partially or wholly) within an Urbanized Area (UA) as defined by the latest decennial Census. Regulated small MS4s in Idaho are located in Census-defined UAs of Coeur d’Alene; Lewiston; Nampa; Boise; Pocatello; and Idaho Falls. The Phase II regulation also defines regulated small MS4s as those systems with a UA that serve military bases or other properties owned by the United States; colleges and universities; large hospital or prison complexes; and highway systems.<sup>35</sup> In Idaho, various public entities own and/or operate regulated small MS4s within UAs, including, but not limited to: cities and counties; local highway districts; ITD; and state or community colleges and universities

The Phase II regulation includes authority for EPA (or states that administer the NPDES program as the permitting authority) to require NPDES permits for other unregulated stormwater discharges by a designation process.<sup>36</sup>

Permits for small MS4 discharges must include terms and conditions to reduce the discharge of pollutants from the MS4 to the MEP, to protect water quality, and to satisfy the appropriate water quality requirements of the Clean Water Act.<sup>37</sup> The MS4 permittee must control pollutants in their MS4 discharges to the MEP by addressing the six “minimum control measures,” i.e., public education and outreach, public participation and involvement, illicit discharge detection and elimination, construction site runoff control, post construction runoff control, and pollution prevention and good housekeeping. A regulated small MS4 operator may seek NPDES permit coverage under an available general permit, or the operator may apply for an individual permit.<sup>38</sup>

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<sup>33</sup> See: 40 CFR §122.26(b); 122.32(a); and EPA 1990.

<sup>34</sup> In December 2000, EPA issued a single individual NPDES permit (#IDS027561) for the Phase I MS4 discharges owned/operated by six co-permittees operating in Garden City and Boise, ID; EPA reissued Permit #IDS027561 effective January 2013 -January 2018.

<sup>35</sup> See: 40 CFR §§ 122.26(b)(16) and 122.30 through 37; and EPA 1999. U.S. Census maps for the Coeur d’Alene, Lewiston (ID)-Clarkston (WA), Nampa, Boise, Pocatello, and Idaho Falls UAs are available at [http://www2.census.gov/geo/maps/dc10map/UAUC\\_RefMap/ua/](http://www2.census.gov/geo/maps/dc10map/UAUC_RefMap/ua/).

<sup>36</sup> See: 40 CFR § 122.26(a)(9)(i)(C) and (D)

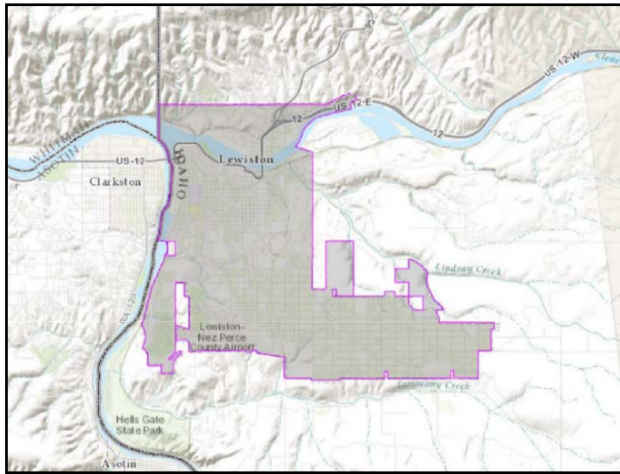
<sup>37</sup> See: CWA Section 402(p)(3); 40 CFR §122.34(a); EPA 2016a and 2016b. EPA now refers to this phrase as the *MS4 permit standard*.

<sup>38</sup> See: 40 CFR § 122.34(b) and additional discussion in Section III of this Fact Sheet.

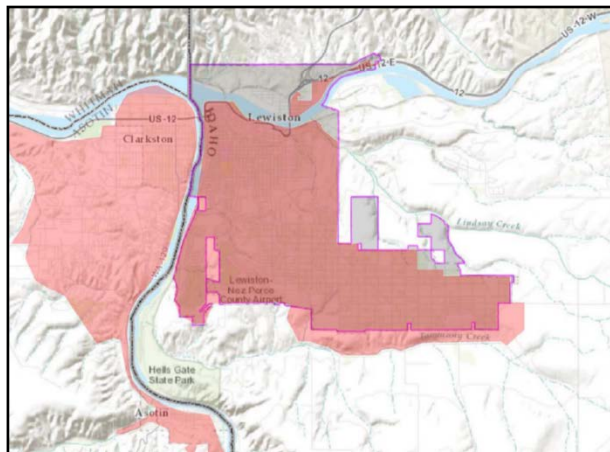
**APPENDIX 3 – PERMIT AREA MAPS: LEWISTON URBANIZED AREA**

Lewiston UA	Census 2000	<a href="http://www2.census.gov/geo/maps/urbanarea/uaoutline/UA2000/ua49312/">http://www2.census.gov/geo/maps/urbanarea/uaoutline/UA2000/ua49312/</a>
	Census 2010	<a href="http://www2.census.gov/geo/maps/dc10map/UAUC_RefMap/ua/ua49312_lewiston_id--wa/">http://www2.census.gov/geo/maps/dc10map/UAUC_RefMap/ua/ua49312_lewiston_id--wa/</a>

**Figure 3..2: City Boundaries for City of Lewiston**



**Figure 3.2:**  
**City and Year 2000 UA Boundaries for the Lewiston, ID-Clarkston,,WA Urbanized Area**



**Figure 3.3:**  
**Combined City, Year 2000 UA, and Year 2010 UA Boundaries for Lewiston, ID-Clarkston,,WA Urbanized Area**

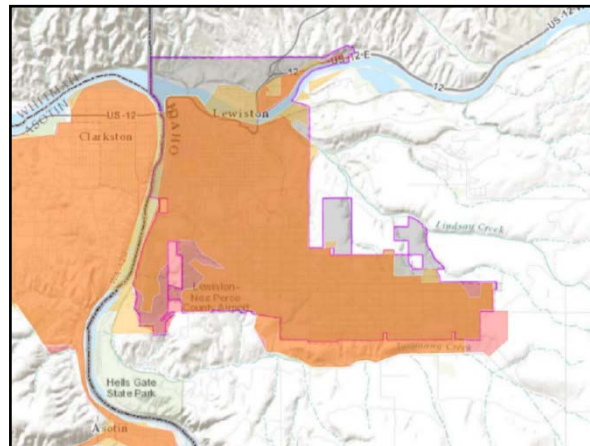


Figure 3.4:

Watershed Map of the Lower Snake -Asotin and Clearwater Subbasins

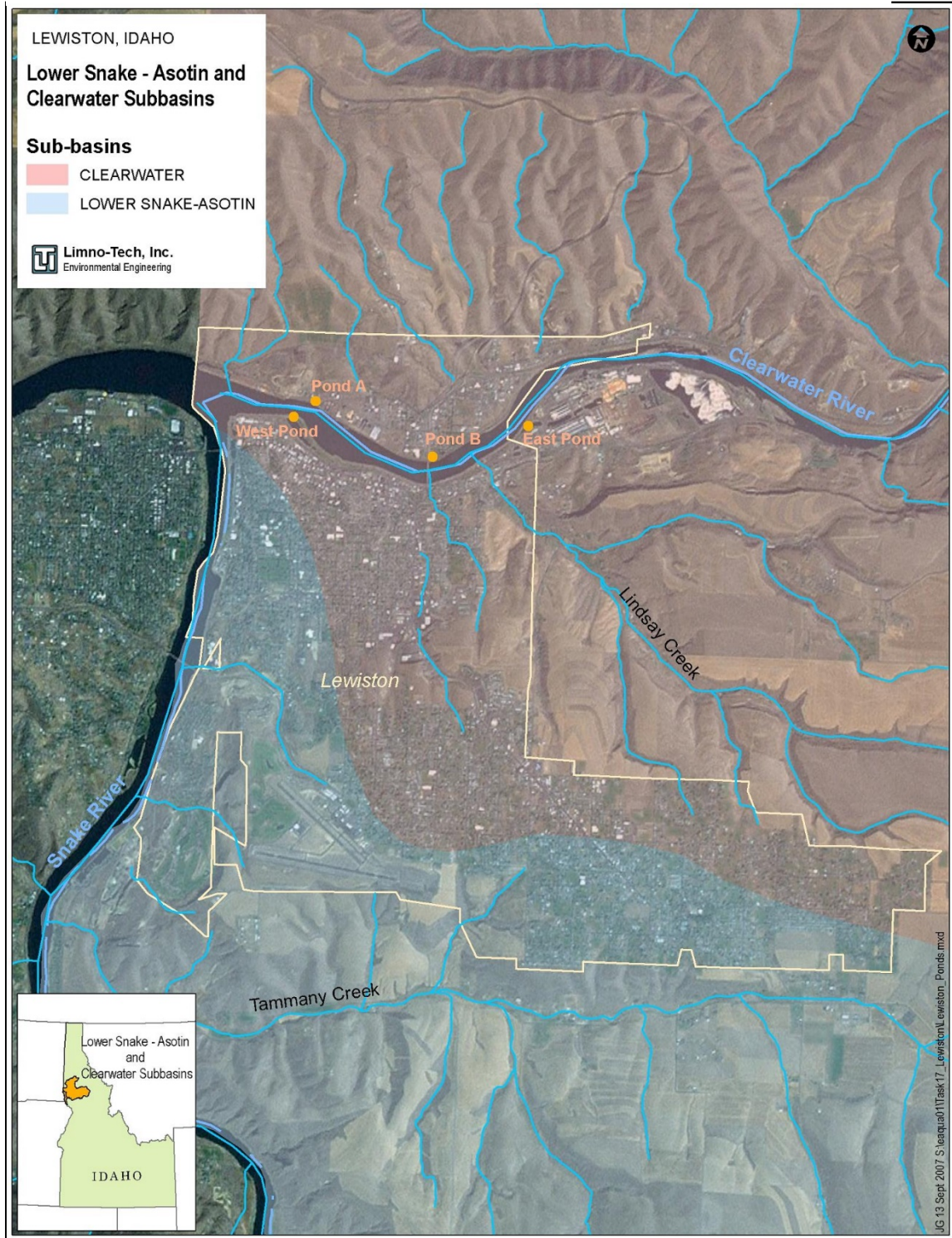
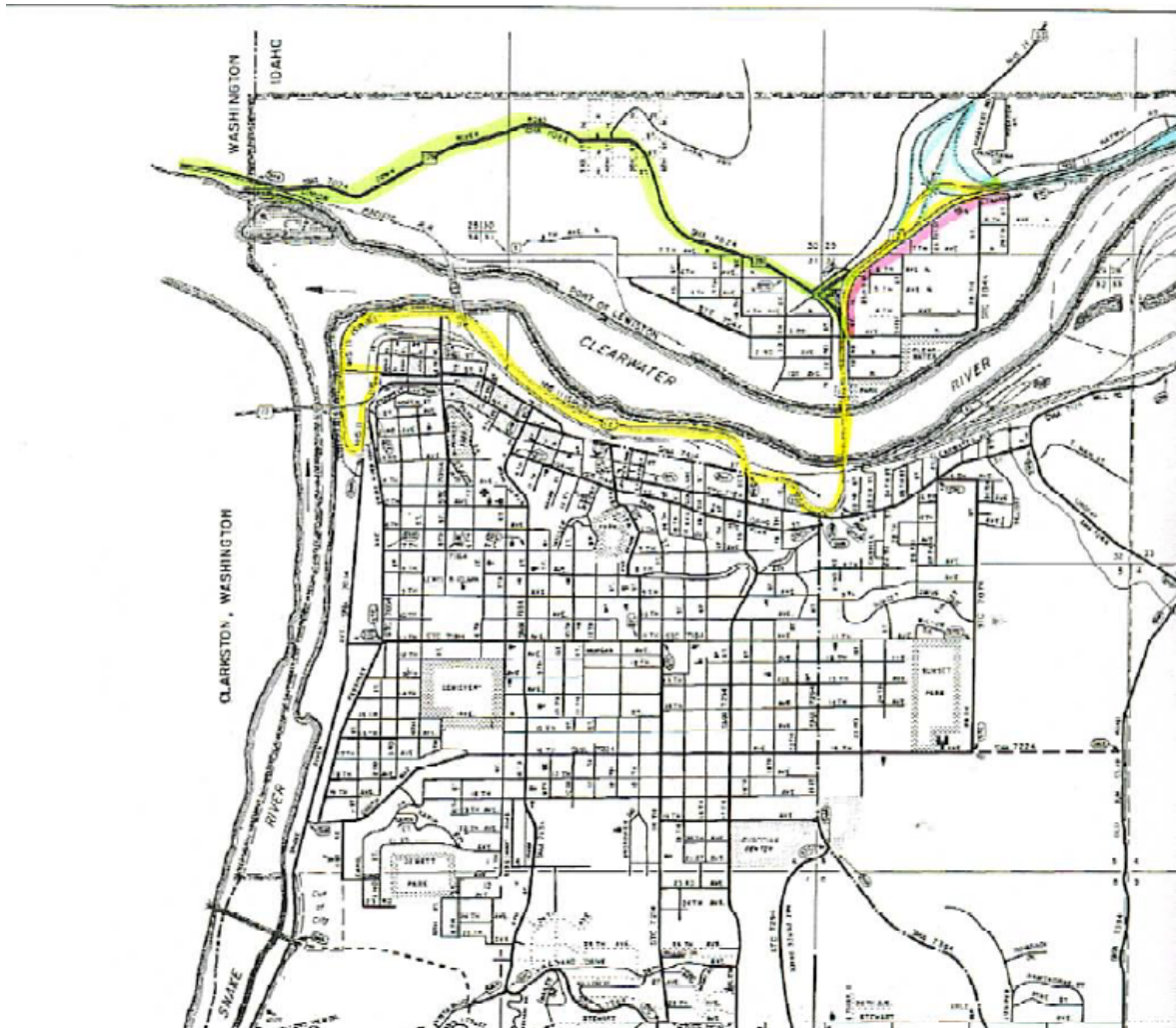
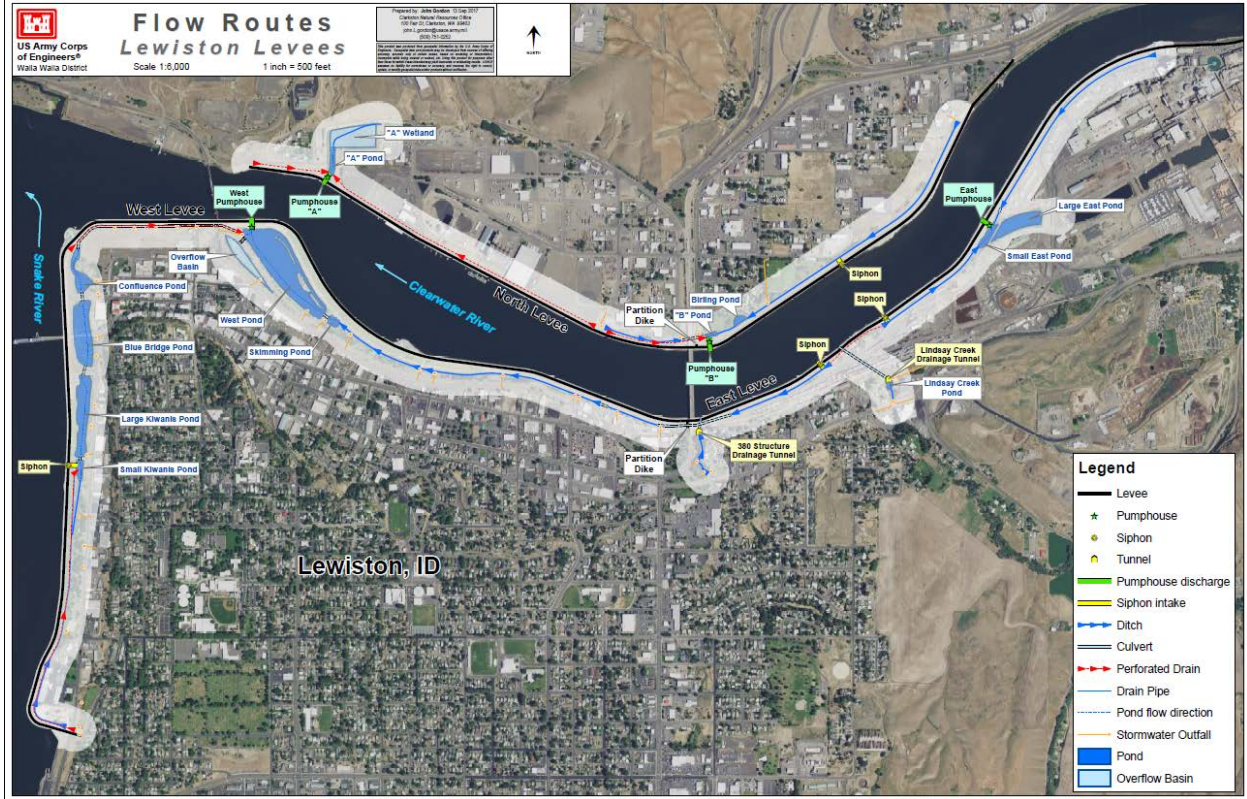


Figure 3.5:

General Location of the ITD2 State Highway System in the Lewiston UA



### APPENDIX 4 – MAP OF LEWISTON LEVEE & PUMPING PLANTS



## **APPENDIX 5 - RATIONALE FOR THE ONSITE STORMWATER RETENTION STANDARD OR TREATMENT EQUIVALENT IN PERMIT PART 3.4**

The requirements in Permit Part 3.4 will improve upon the site design specifications, guidelines, and other policy documents that are currently required by MS4 Permittee jurisdictions in Idaho. The purpose of requiring an onsite stormwater design standard in this and other Idaho MS4 permits is to reduce pollutants in regulated MS4 discharges to the MEP, and improve upon the protection of water quality in Urbanized Areas of Idaho by helping to maintain or restore stable hydrology in adjacent receiving waters.

The following discussion provides additional background on the EPA's rationale for including this requirement being necessary to meet the MS4 permit standard in the Lewiston UA.

It is well understood nationally that uncontrolled runoff from new development and redeveloped areas negatively affects receiving water bodies.<sup>39</sup> Pavement and other impervious surfaces in urban settings prevent infiltration of precipitation, and the resulting runoff increases both in volume and velocity, which in turn causes the erosion of stream banks and scouring of streambeds. Fine sediments and pollutants from automobiles, landscape pesticides, and fertilizers enter waterbodies, and can damage fish spawning areas and other aquatic habitat. Where traditional stormwater management practices typically employ engineered, end-of-pipe practices, (that tend to control only peak flow rates and total suspended solids concentrations), such conventional practices typically fail to address widespread and cumulative hydrologic modifications within a watershed that increase runoff volumes and rates, causing excessive erosion and stream channel degradation. Traditional practices also fail to treat runoff for nutrients, pathogens, and metals pollutants typically found in urban settings.<sup>40</sup>

Permanent stormwater control measures that involve prevention- such as product substitution, better site design, downspout disconnection, and conservation of natural areas - as well as watershed and land use planning, can dramatically reduce both the volume of runoff and pollutant loads from new development and redevelopment. In particular, site-level stormwater control measures that harvest, infiltrate, and evapotranspire stormwater runoff are critical to reducing the volume and pollutant loading associated with smaller storms.<sup>41</sup>

“Green Infrastructure” (GI) or “green stormwater infrastructure” (GSI), are terms used to describe the type of permanent stormwater management techniques that are cost-effective, sustainable, and environmentally friendly. Such techniques, including site level “Low Impact Development” (LID) practices, at new development or redevelopment projects involve both stormwater management and land development strategies emphasizing conservation and integration of natural features with small scale engineered hydrologic controls to more closely mimic predevelopment hydrologic function. A comprehensive approach to long-term stormwater management using GI/GSI, and LID seeks to:

- Preserve, protect and enhance natural landscape features, such as undisturbed forests, meadows, wetlands, and other undisturbed areas that provide natural stormwater management;

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<sup>39</sup> EPA 1983; EPA 1999.

<sup>40</sup> Shaver, et al., 2007. Holz, 2008; and Horner, 2008.

<sup>41</sup> NRC 2008.



- Reduce overall land consumption, and use land efficiently, to reduce total watershed or regional impervious cover;
- Recycle land by directing new development to already degraded land, e.g., parking lots, vacant buildings, abandoned malls; and
- Direct stormwater into the ground near where it fell through infiltration, prevent rainfall from falling to the ground through interception, return water back to the atmosphere through evapotranspiration, and/or otherwise manage storm water through reuse techniques.<sup>42</sup>

Since 2008, the EPA has encouraged MS4 jurisdictions to employ a volume-based approach to stormwater management at new development and redevelopment sites. This approach includes requirements for the design, construction, and maintenance of permanent stormwater practices that manage rainfall on-site, to generally prevent the off-site discharge of precipitation from all rainfall events below a certain size. The EPA considers a volume-based stormwater management approach to be appropriate in this and other MS4 permits in Idaho because such techniques are widely acknowledged as a means of preventing pollutants from entering the receiving water; further, such techniques directly address the need to maintain and, where necessary, restore predevelopment hydrology for duration, rate, and volume of stormwater flows.

Many GSI/LID strategies involve bioretention, or infiltrating runoff through soil. Bioretention practices include use of porous pavements, green roofs, bioswales, and rain gardens. Various studies confirm the effectiveness of GSI/LID practices to reduce contaminants, restore hydrology, and protect the health of aquatic species. Research and on-the-ground experience suggests that all LID practices can perform effectively in a wide variety of geographic areas as long as procedures for proper design, implementation, and maintenance are established and followed.<sup>43</sup>

Many MS4 Permittees in Idaho currently require onsite retention and infiltration practices at development sites in their jurisdictions, and integrate aspects of a GSI/LID approach for such new development and redevelopment sites. Based on evidence that such GSI/LID approaches are indeed practicable for use in Idaho communities, the EPA is now requiring such site design approaches in this and other MS4 permits in Idaho to better address post-construction stormwater discharges.

The Permit requires the Permittees to use local ordinances or regulatory mechanisms to require the volume of water from storms  $\leq$  95<sup>th</sup> percentile event to be managed entirely onsite, and not discharged to surface waters, in order to fully protect Idaho receiving waters. The *95<sup>th</sup> percentile rainfall event* is the rainfall event that is greater than 95% of all rainfall events over a period of record (typically using a minimum 30-year period of record). In general, this calculation excludes extremely small rain events that are  $\leq$ 0.1 of an inch of rainfall or less (because such small rainfall events typically do not result in any measurable runoff due to absorption, interception, and evaporation by permeable, impermeable, and vegetated surfaces).<sup>44</sup>

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<sup>42</sup> See: American Rivers 2013; EPA 2006; EPA 1999, at pages 68725 – 68728 and 68759; EPA 2008; and EPA 2009.

<sup>43</sup> For example, see Ahiablame, et al, 2012; Spromberg, J.A. et al. 2016; and McIntyre, J.K, et al. 2016; and other references in the Administrative Record.

<sup>44</sup> See: Hirschman and Kosco, 2008.

The EPA has previously calculated example target design storm volumes, as illustrated below. Using available 24-hour precipitation data through 2012 from the National Oceanic and Atmospheric Administration, EPA analyzed the average rainfall depth occurring in the Idaho MS4 Permit Areas. See Table A below. In the Urbanized Areas of Idaho, approximately 95% of all storms result in rainfall volumes of approximately 0.82 inches or less, ranging between 0.57 inches to 0.82 inches.

**Table A: Analysis of the 95th Percentile Storm Runoff Volumes for Idaho MS4 Permit Areas**

Urbanized Area/ Permit Area	Rainfall Depth (in) 95 <sup>th</sup>	NOAA Station Location; Period of Record
Coeur d' Alene	0.81888	<i>COEUR D ALENE, ID (GHCND:USC00101956); 1895-2012</i>
Moscow	0.8188	<i>MOSCOW U OF I, ID (GHCND:USC00106152); 1893-2012</i>
Caldwell	0.6102	<i>BOISE AIR TERMINAL, ID (GHCND:USW00024131); 1940-2012</i>
Nampa	0.5708	<i>NAMPA 2 NW, ID US ZIP:83687; 1948-2012</i>
Boise	0.6102	<i>BOISE AIR TERMINAL, ID (GHCND:USW00024131); 1940-2012</i>
Lewiston	0.6299	<i>LEWISTON NEZ PERCE CO AIRPORT, ID (GHCND:USW00024149); 1940-2012</i>
Pocatello	0.6495	<i>POCATELLO REGIONAL AIRPORT, ID (GHCND:USW00024156); 1939-2012</i>
Idaho Falls	0.688	<i>IDAHO FALLS, ID 83402 ZIP:83402; 1913-2012</i>

EPA recommends the 95<sup>th</sup> percentile storm volume be calculated for the Lewiston Urbanized Area at the start of the Permit term and revisited at the time of permit renewal so that a consistent standard is applied for the duration of the Permit term.

Including a stormwater design standard for onsite stormwater retention in this and other MS4 Permits, expressed as a calculated runoff volume, serves to acknowledge the predicted, incremental increase in storm event volumes in Lewiston and other areas of Idaho. The EPA believes such a design standard is preferable to using a single, static statewide rainfall amount (e.g, "0.6 inches total rain"), or a volume calculated from a statistical storm frequency return interval using historic rainfall data.

The EPA has evaluated the potential extreme storm event return interval for 24-hour storm events in each of the MS4 Permit Areas in Idaho.<sup>45</sup> The evaluation reflects estimated changes

<sup>45</sup> EPA Region 10's analysis of the extreme storm event return interval for the Idaho MS4 Permit Areas is available as part of the Administrative Record. EPA used a risk assessment application designed to help water utilities in adapting to extreme weather events through a better understanding of current and long-term weather conditions; it is available online at <https://www.epa.gov/crwu/build-resilience-your-utility>.

in rainfall patterns over 30-year averages, centered around the years 2035 and 2060, as compared to historical or present-day conditions. Under all evaluated scenarios, the predicted trends in Idaho MS4 Permit Areas show a general increase in ambient temperatures throughout the calendar year, and increased storm magnitude for all return frequencies (i.e., the 5 year, 10 year, ..., and 100 year events). The evaluation also suggests significantly decreased summer precipitation statewide, balanced by increased precipitation during other seasons. Expressing the stormwater design standard for onsite storm water retention in Permit Part 3.4 as a calculated runoff volume therefore defines a practicable and feasible performance standard for permanent stormwater control at new development and redevelopment that will protect Idaho water quality over the long term.

## APPENDIX 6 – RATIONALE SUPPORTING REQUIREMENTS IN PERMIT PART 4 FOR MS4 DISCHARGES TO IMPAIRED WATERS

### Appendix 6.1 Clearwater River Arm of the Lower Granite Dam Pool

**Summary:** No additional requirements are included in the Permit. The EPA determines that the Permittee’s implementation of SWMP control measures required by Permit Part 3 will reduce the discharge of pollutants to the maximum extent practicable, protect water quality, and satisfy appropriate requirements of the Clean Water Act. The EPA recognizes that additional monitoring/assessment, or other actions, may be necessary based on the result of the EPA’s consultation with NOAA-Fisheries and USFWS. In the event additional actions are required, the EPA will follow the permit modification requirements of 40 CFR § 122.62.

Receiving Water	Waterbody Assessment Unit	Impairment Pollutants	TMDL Status
Lower Granite Dam Pool	ID17060306CL001_07 <i>Lower Granite Dam Pool</i>	None- Fully Supporting beneficial uses.	Not applicable.

**Discussion and Conclusion:** MS4 discharges from ITD2 enter the LGDP at two outfall locations as described in Section 1.3 of this Fact Sheet.

The Clearwater River Arm of the LGDP is not considered to be water quality impaired by IDEQ. Based on this status, the EPA has not included additional SWMP control requirements or other monitoring/assessment actions in the Permit, beyond the SWMP control measures required by Permit Part 3.

However, as discussed in Section 3.3 of this Fact Sheet, the LGDP is considered to be in the designated critical habitat area for threatened and endangered species, specifically bull trout, Chinook and sockeye salmon, and steelhead trout. The LGDP is also considered essential fish habitat for Chinook and coho salmon.

The EPA is completing a biological evaluation of potential effects on these ESA listed species resulting from its issuance of the Permit. The EPA will consult with NOAA-Fisheries and USFWS as required by the ESA. Additional requirements, in the form of monitoring and/or other SWMP actions, may be added to the Permit based on the results of the EPA’s consultation. In the event additional actions are required, the EPA will follow the permit modification requirements of 40 CFR § 122.62.

**Appendix 6.2 Lower Granite Lake (Snake River) downstream of ID/WA Border**

**Summary:** No additional requirements are included in the Permit. The EPA determines that the Permittee’s implementation of SWMP control measures required by Permit Part 3 will reduce the discharge of pollutants to the maximum extent practicable, protect water quality, and satisfy appropriate requirements of the Clean Water Act.

Receiving Water	Waterbody Assessment Unit	Impairment Pollutants	TMDL Status
Snake River (Washington Portion)	170601070201_01_01 Snake River (Lower Granite Lake)	Total Dissolved Gas	<i>TMDL for Lower Snake River Total Dissolved Gas, August 2003.</i>  WDOE Publication No. 03-03-020; EPA Approved, {date unknown}.
		2,3,7,8 Tetrachlorodibenzo-p-dioxin (TCDD, or Dioxin)	<i>TMDL to Limit Discharges of 2,3,7,8-TCDD (Dioxin) to the Columbia River Basin,</i>  February 1991. WDOE Publication No. 09-10-058. Approved (date unknown).
		pH Temperature Dissolved Oxygen Polychlorinated biphenyls (PCBs); 4,4' dichlorodiphenyldichloroethylene (DDE)	No TMDL(s) completed.

**Discussion and Conclusion:**

MS4 discharges from ITD2 enter the Idaho portion of LGDP at two outfall locations as described in Section 1.3 of this Fact Sheet.

Downstream of the Lewiston UA, WDOE considers the portion of the Snake River known as Lower Granite Lake to be impaired for total dissolved gas; dioxin; pH; temperature; dissolved oxygen; PCBs; and DDE.

TMDLs have been completed for total dissolved gas and dioxin; neither TMDL contains WLAs for municipal stormwater discharges. Specifically, WDOE’s 2003 *TMDL for Lower Snake River Total Dissolved Gas*<sup>46</sup> identifies water spilling over dams on the Snake River as the cause of total dissolved gas levels above the WA water quality criteria, and establishes associated load allocations only for those Snake River dams. With regard to dioxin, the EPA issued the multi-state *TMDL to Limit Discharges of 2,3,7,8-TCDD (Dioxin) to the Columbia River Basin* in 1991. This TMDL for dioxin establishes WLAs only for chlorine bleaching pulp mills, and does not establish WLAs or LAs for other point or non-point sources, nor does it identify specific actions

<sup>46</sup> WDOE 2003.

or expectations for potential sources of dioxin.<sup>47</sup>

No TMDLs have yet been established for pH, temperature, dissolved oxygen, PCBs, or DDE. WDOE's impairment listings for pH, temperature, and dissolved oxygen are based on water quality monitoring, while listings for PCBs and DDE are based on fish tissue sampling.

PCBs do not readily dissolve in water but tend to bind to particles; particle-bound PCBs can be transported through stormwater and end up in sediment. WDOE and the Washington Department of Health identify stormwater as the largest delivery pathway to surface waters for PCBs statewide, and states that the long-term goal is to prevent PCBs from entering stormwater by continuing to work on stormwater management.<sup>48</sup>

WDOE requires the regulated MS4s discharging to Snake River (Cities of Asotin and Clarkston, and Asotin County, WA) to implement a comprehensive SWMP through its *Eastern Washington Phase II Municipal Stormwater General Permit*. The EPA has outlined SWMP control measures in the Permit for ITD2 that are comparable to the *Eastern Washington Phase II Municipal Stormwater General Permit*, and therefore has not included any additional SWMP control requirements or other actions at this time.

As discussed in Sections 3.2 and 3.3 of this Fact Sheet, the portion of the LGDP in Idaho is considered to be in the designated critical habitat area for threatened and endangered species, specifically bull trout, Chinook and sockeye salmon, and steelhead trout. The LGDP is also considered essential fish habitat for Chinook and coho salmon.

The EPA is completing a biological evaluation of potential effects on these ESA listed species resulting from its issuance of the Permit. The EPA will consult with NOAA-Fisheries and USFWS as required by the ESA. Additional requirements, in the form of monitoring and/or other SWMP actions, may be added to the Permit based on the results of the EPA's consultation. In the event additional actions are required, the EPA will follow the permit modification requirements of 40 CFR § 122.62.

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<sup>47</sup> EPA 1991

<sup>48</sup> WDOE and WDOH 2015.

