Section 1

Introduction

As Small Municipal Separate Storm Sewer Systems (MS4s), Placer County (County) and the Town of Truckee (Town) must comply with the State's general National Pollutant Discharge Elimination System (NPDES) permit for stormwater discharges. In accordance with this permit, the County and Town have each developed Storm Water Management Programs (SWMPs) (Placer County, 2007 and Town of Truckee, 2007) which were required by the Lahontan Regional Water Quality Control Board (Lahontan) to include the development of a comprehensive water quality monitoring plan for the Middle Truckee River Watershed. Additionally, Clean Water Act 303(d) Total Maximum Daily Load (TMDL) programs are being implemented in both Squaw Creek and the Middle Truckee River. In response to these regulations, the Truckee River Water Quality Monitoring Plan (TRWQMP) (2NDNATURE, LLC, 2008) was developed collaboratively by the County and Town to cost-effectively assess the effectiveness of their ongoing SWMPs with respect to protecting downstream water resources.

The TRWQMP is a fifteen year comprehensive water quality monitoring plan that is intended to be implemented in three phases. The County and Town began implementation of Phase 1during the 2010 water year (WY 2010) (October 1, 2009 through September 30, 2010). Phase 2 implementation is planned for Years 4 and 5 (2013-2014), and Phase 3 is planned for Years 6 through 15 (2015-2024). The level of implementation will depend on a number of factors including cooperation by other independent entities conducting water quality monitoring in the watershed and the availability of funding.

This Joint Annual Monitoring Report describes the monitoring activities performed by Placer County and the Town of Truckee during WY 2012 and presents their results. Data collection activities during this third year of the TRWQMP's Phase 1 implementation included:

- Targeted rapid assessment methodology (RAM) surveys to assess fine sediment distributions in stream channels,
- Bioassessments to gauge stream health based on its benthic macroinvertebrate community,
- Community level discrete water quality sampling within the Truckee Town Corridor and the Martis Creek sub-watersheds,
- Tributary level discrete water quality sampling within the Martis Creek watershed, and
- Continuous discharge monitoring on Martis Creek.



Figure 1-1 Martis Creek Main Stem September 2012

Smith

Several documents have been previously produced in the course of planning and implementing the initial Phase 1 monitoring program including:

- Evaluation of Existing Monitoring for Integration with the Truckee River Water Quality
 Monitoring Plan (CDM Smith, 2010a) to review the existing monitoring programs that were
 identified for potential integration in the TRWQMP and then develop recommendations to begin
 their incorporation.
- Truckee River Water Quality Monitoring Plan, Phase 1 Permitting and Approvals Requirements
 (CDM Smith, 2010b) to identify and track the permitting and approvals required for each type
 of assessment, their proposed location, property ownership, contact information, approvals
 schedule, required fees and required submittal information.
- Truckee River Water Quality Monitoring Plan Monitoring Site Selection Report (CDM Smith, 2010c) to present evaluations and recommendations for monitoring site locations to be used for the Phase 1 implementation.
- Sampling and Analysis Plan, Water Year 2011 (CDM Smith, 2011a) and (CDM Smith, 2011b) to
 describe the initial management strategy and the specific monitoring activities to be
 implemented under Phase 1. These documents are updated as appropriate to document
 revisions to monitoring activities.
- Equipment Installation Report (CDM Smith, 2011c) to document the installation of the stream gauge and the tributary and community level water quality monitoring stations in the Martis Creek watershed.
- Truckee River Water Quality Monitoring Plan Field Equipment Operations and Maintenance Manual (CDM Smith, 2011d) to provide an inventory of equipment as well as protocols for operating and maintaining the equipment.

The results of WY 2010 monitoring activities were presented in two reports that were produced separately by the County and Town. To better document the program as a whole, the results of WY 2011 monitoring activities were presented in a single document produced jointly by the County and Town. The names of these reports are as follows:

- Placer County: Annual Report for Implementation of the Truckee River Water Quality Monitoring Plan, Water Year 2010 (CDM Smith, 2010d);
- Town of Truckee: Annual Report for Implementation of the Truckee River Water Quality Monitoring Plan, Water Year 2010 (CDM Smith, 2010e); and
- Town of Truckee/County of Placer: Joint Annual Monitoring Report for Implementation of the Truckee River Water Quality Monitoring Plan, Water Year 2011 (CDM Smith, 2011e).

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