

## Attachment 3 – Work Plan

The restoration approach for lower Trout Creek was developed to achieve the following primary goals and objectives:

- Develop a restoration design that will restore natural geomorphic function to lower Trout Creek, improve bed mobility, and reduce fine sediment loads into the channel.
- Improve ecological value through creation of a functioning riparian corridor and enhancement of aquatic habitat.
- Improve water quality by managing local runoff from existing and proposed urban developments and, where feasible, treating urban runoff before it enters Trout Creek.
- Provide 100-year flood protection through the project reach and reduce peak runoff, where feasible, from adjacent new developments through a stormwater management program.
- Improve the recreational and aesthetic value of lower Trout Creek by integrating the stream and riparian restoration project with the recreational opportunities provided as part of the Railyard Master Plan.

### Purpose and Need

Over the past 150 years, the lower portion of Trout Creek, a tributary to the Truckee River, has been impacted by development of the downtown, the rail yard, and various other land uses. These impacts have resulted from channelization and realignment of Trout Creek and have upset natural channel processes such as bed load movement, habitat creation, hydrology, and riparian connectivity. Despite past efforts to manage Trout Creek, flooding impacts associated with the 1997 and 2006 rain-on-snow events occurred. Efforts to manage high flows and address impacts associated with flooding of lower Trout Creek has also resulted in severe impacts to the biological and aesthetic integrity of the stream and riparian system.

Project List: Trout Creek Restoration (Reaches 4 & 5).

Integrated Elements of Projects: Not Applicable

Regional Map: See “Watershed Figures from WQMP.PDF”

### Completed Work:

1. Town staff prepared an administrative draft Mitigated Negative Declaration for the project in 2008. The document was never completed but it was distributed to several local agencies and Stakeholders (Army Corps, Lahontan Regional Water Quality Control Board, Department of Fish and Game, US Fish and Wildlife, etc) for review and comment.

2. Necessary permits have been discussed with both the Army Corp and Lahontan Regional Water Quality Control Board.

Existing Data and Studies:

1. A wetland delineation for the project area was completed in 2007 by North Fork and Associates.
2. A Biological Resource Assessment was prepared by North Fork Associates in 2007.
3. A Preliminary Design Report and 30% Design Plans have been completed for the project (Swanson Hydrology & Geomorphology, 2008). This report is over 200 pages with appendices and identifies the history of the creek, existing conditions, opportunities and constraints, desired outcomes, and details on the proposed design.
4. A hydraulic analysis for the project, including a HEC-RAS model, has been completed for the project area.

Project Map: See "Project Map.pdf"

Project Specifics:

Project	Trout Creek Restoration - Reaches 4 & 5
Geographic Location	Trout Creek Watershed, Truckee, CA
Project Purpose	Provide 100-year flood protection in Reach 4 and 5 of Trout Creek, restore natural creek geomorphic function, create riparian corridor and aquatic habitat, improve water quality, and improve creek's recreational and aesthetic value.
O&M Liability	Because the project will restore natural creek function, maintenance and operation costs are very limited.
Impact to Sacramento and San Joaquin River Flood Control System	None.

Project Timing and Phasing: Work on upstream reaches has already begun. Town plans to restore Reach 3 this summer and Reach 1 in 2012 or 2013. Project design has addressed potential phasing to ensure adequate flow capacity under various build out scenarios.

Town of Truckee  
Trout Creek Restoration (Reaches 4 & 5)

Work Plan

<b>Budget Category</b>	<b>Task Items</b>	<b>Description</b>	<b>Deliverables</b>
a) Direct Project Administration	1. Project Administration	Project Administration, including grant administration and review and management of design and environmental documentation and contracts.	Preparation of invoices and other deliverables as required.
	2. Labor Compliance	Administer Labor Compliance Program. Ensure compliance with wage rates.	Labor Compliance reports and documentation as required.
	3. Reporting	Grant Reporting	Submission of quarterly, annual and final reports as specified in the Grant Agreement.
b) Land Purchase/Easement		N/A	
c) Planning/Design/Engineering/Environmental Documentation	4. Design Phase		
	4.1. 50% Design and Permit Applications	Preparation of 50% Design and Permit. Prepared by project consultant and reviewed by Town staff.	50% Design and issued permits.
	4.2. 90% Design	90% (Pre-Final) Design. Prepared by project consultant and reviewed by Town staff.	90% Design.
	4.3. 100% Design	100% (Final) Design and Bid Assistance. Includes preparation of construction documents and bid documents. Prepared by project consultant and reviewed by Town staff.	100% Design.
	5. Environmental Review	Prepare environmental review and CEQA document (expected to be a Mitigated Negative Declaration). Includes document preparation, public noticing, public meetings, and required filing fees.	Adopted CEQA and additional documentation as specified in Grant Agreement.
d) Construction/Implementation	6. Construction		
	6.1. Construction Contracting	Advertise bid, pre-bid meeting, award construction contract	Bid advertisement, bid opening, pre-bid meeting minutes, construction contract.
	6.2. Reach 4	Construction of Reach 4. Includes construction contract costs.	Construction complete.
	6.3. Reach 5	Construction of Reach 5. Includes construction contract costs.	Construction complete.
	6.4. Railroad Crossing Structures	Railroad Crossing Structures. Includes construction contract costs.	Construction complete.
	6.5. Balloon Track and Glenshire Drive Relocation	Balloon Track and Glenshire Drive Relocation. Includes construction contract costs.	Construction complete.
e) Environmental Compliance/Mitigation/Enhancement	7. Mitigation Monitoring	Mitigation Monitoring. Includes monitoring of CEQA mitigation measures identified in environmental document as well as monitoring of project after completion to evaluate success.	Documentation of environmental mitigation monitoring complete.
f) Construction Administration	8. Construction Administration	Administer and monitor construction for compliance with design plans, document compliance. Includes inspection, monitoring of construction contract, and records management.	Filed Notice of Completion.