

Sample Site
123 Main Street
South Lake Tahoe, Ca
APN 123-456-79
TRPA File BMPP2011-0001

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1. SITE DESCRIPTION

This Sample Site is a three acre commercial lot that is 90% impervious surface. There is currently a large grocery store, a mini-mart, dry-cleaner and a gas station on site. Most of the year the lot has about 20 cars in the lot at any given time, but during holiday weekends the 60 spaces on the lot will be full most of the day. The landscaping consists of vegetated islands filled with native vegetation. There is a small area of turf on the east side of the lot and the west side has Stream Environment Zone vegetation, mainly willows. The site is directly adjacent to a stream which connects to Lake Tahoe and to Main Street which drains to the city-owned Main Street basins prior to discharge to a stream. The site is relatively flat with well- drained soils on the east side and wet soils with slow infiltration rates on the west side where there is a verified Stream Environment Zone.

This report is being prepared to satisfy the following conditions of TRPA Permit #BMPP2011-0001:

- A. Due to the maintenance-intense nature of the proposed drop-inlets and pre-treatment devices, a maintenance log shall be created. This log shall include dates of visual inspections, cleanings, and hydrocarbon boom/pad replacement. This log shall be maintained for the life of the property and shall be made available for inspection by TRPA staff. If this log is not complete, TRPA will assume that maintenance has not been performed and reserves the right to revoke the BMP Certificate of Completion.
- B. All BMPs shall be maintained subject to the Monitoring Plan approved as part of this permit. This includes visually inspecting BMPs bi-annually and after major storm events.
- C. The permit holder shall provide TRPA with a monitoring plan and an annual report which monitors the effluent of the proposed cartridge filtration system and the drop inlet insert and documents the success of the proposed re-vegetation. This plan shall be submitted for TRPA approval prior to TRPA permit acknowledgement and reports shall be submitted to TRPA by January 31st for a minimum of ten years after project completion.

2. SAMPLING LOCATIONS

SAMPLE POINT A

Sample point A is at the south east corner of the property in a drop inlet that is fitted with a drop inlet pre-treatment unit designed to remove oil and grease.

SAMPLE POINT B

Sample point B is located at the outlet for the cartridge filtration system located at the south west corner of the property.

SAMPLE PONT C

Sample Site C is a photo monitoring site taken from the western-most vegetated swale facing the SEZ.

3. MONITORING

In 2011, South Lake Tahoe received an average amount of moisture, 18 inches, 15 of which fell as snow. The site received a twenty year one hour storm on July 7, 2011. The tenants on the site did not change and traffic on the lot was typical with the exception that in December the southwest corner of the lot was used for a small outdoor Christmas tree lot.

All water quality samples met TRPA standards with the exception of the sample on December 28, 2011 which was taken from location B, below the cartridge unit, which was high in nitrogen. Upon

inspection on it was determined that the cartridge was clogged. The cartridge was replaced and subsequent testing showed that discharge standards are being met.

The clogging was most likely caused by tree lot employees pushing sawdust into the system inlet. To prevent this happening in the future, John Doe, site manager provided written notice to the tenant that they were not permitted to dispose of material in the storm drain and that the tenant would be responsible for all costs including labor and cartridge replacement if it occurred again. The storm drain was also stenciled with a "no dumping, drains to lake" stencil.

Photographs taken on January 1, 2011 show snow storage in the SEZ. John Doe contacted ACME Plowing and had them remove the snow pile they had pushed into the creek and relocate it to the east side of the property. To prevent future occurrences, new "no snow storage" signs were installed on the west side of the property. The May 1, 2011 photographs show damage to vegetation in the area where the illegal snow storage occurred the previous winter. This area was mulched and seeded with the TRPA-approved SEZ/Riparian-Wet Meadow seed mix.

4. SITE INSPECTION AND MAINTENANCE

Inspections and maintenance procedures were followed as prescribed by the conditions of the permit and maintenance plan. The only recurring maintenance issue was accumulation of sediment in the western-most vegetated swale. This is most likely a result of tracking from the area of disturbed SEZ. In order to insure that BMPs remain functional on the lot, the inspection interval will increase to a minimum of four times each year. If these inspections show a continued maintenance issue, additional bollards and signage will be installed to protect the SEZ and the swale depth may be increased and/or the standpipe height increased to expand the capacity to store sediment.

ATTACHMENT A

SITE PLAN

ATTACHMENT B

WATER QUALITY DATA

ATTACHMENT C

PHOTO- MONITORING

ATTACHMENT D

INSPECTION AND MAINTENCE LOGS