Annual Road Work Plan for HCP Covered Lands

HCP §6.3.3.1.3 and §6.3.3.5.5

2015-2016 Reporting

April 5, 2016
Project Description

Title: Annual Road Work Plan 2016

Purpose: As set forth in HCP §6.3.3.1.3, HRC shall develop an annual road work plan. This plan shall include a prioritization and scheduling of stormproofing activities, a description of road work conducted in the previous year and road work anticipated to be conducted during the next 12 month period, beginning April 15. HRC is committed to meeting these standards and provides this report in compliance with HCP §6.3.3.1.3 and §6.3.3.5.5.

Date Initiated: 1999

Projected End Date: Ongoing

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Executive Summary:

Goals set for 2015 as provided in the last Annual Road Plan:
HRC planned to address the completion of ~420 sites, with an estimated sediment savings of about 30,900 cubic yards.

Goals achieved for 2015:
HRC removed 30,604 cubic yards of soil from sediment sites across the property, completed work at 494 sites, and achieved our goal of stormproofing 75 miles of road. Stormproofed miles were accomplished through road abandonment and restoration, and by upgrading segments of existing and in-use roads with culverts to accommodate 100-year flow events.

Goals set for 2016:
HRC plans to address the completion of ~410 sites, with an estimated sediment savings of about 31,900 cubic yards.

HRC will continue to explore new culvert/geo-fabric materials as well as investigate cutting-edge installation technologies and applications methods with the goal of increasing culverted crossing life spans. We continue to expand our use of locally derived Large Woody Debris (LWD) for channel armoring and bank stabilization in substitute of imported rock materials. Utilization of this material is cost effective and expedites mitigation efforts, allowing for additional sites to be treated in the same season. Performance of wood structures in recent years has also demonstrated they are highly effective in maintain bank and channel stability. These wooden features also result in a more naturally functioning streamside setting, in comparison to artificial rock structures.

We have and will continue to implement alternative mitigation prescriptions, based on site specific conditions and constraints (topography, geology, landslide hazard, etc.). Past experience has shown that in some geological and/or topographic settings alternative structures reduce risk of failure and reduce maintenance efforts. It is also our intent to continually update our site treatments methods based on knowledge gain from past installation. For example, it has been showed that a depth to width ratio greater than our standard practices is required to accommodate naturally occurring in-channel sediment transport when installing rocked dips at steep gradient (greater than 50%) class III watercourse crossing.
HRC Master Agreement for Timber Operations (MATO) Reporting

This Annual Road Plan and Report is intended to meet the obligations of HRC’s MATO for annual reporting. A supplement to this report will be provided by June 15, 2016 to describe performance of sites completed under the MATO.

Road Plan Reporting Obligations set forth in HCP §6.3.3.1.3

The components of the Annual Road Plan as required by the HCP are listed below. Most of the content of this Plan consists of lists such as road site work orders, the dates/locations of annual road inspections, and maps. The HCP subsection is provided for reference.

Note that the majority of our reporting is documented in large maps that have been saved digitally as pdf files (file name in quotation marks). These maps can be zoomed in for viewing, or printed on a plotter.

Subsection 3.1 Roads that have been closed or decommissioned.

See 4-map set (Map1-Map4) “HRC_StormProofbyYearMap”

Subsection 3.2 Locations of roads assessed and already stromproofed.

See 4-map set (Map1-Map4) “HRC_StormProofbyYearMap”

Subsection 3.3 Location, explanation, and justification of alternative measures undertaken in the previous year.

See document “HRC_2015RoadExemptions”

(Previously submitted sites are still in effect)

Subsection 3.4 Locations of roads anticipated to be stormproofed during the next 12 months.

See 4-map set (Map1-Map4) “HRC_StormProofbyYearMap”

Subsection 3.5 Sites anticipated being stormproofed and their priority ranking.

See document “HRC_2016WorkOrders”

See map “HRC_2016ProposedRoadWorkMap”

Subsection 3.6 Dates when roads were assessed according to 6.3.3.1 Item 1.

See map “HRC_RoadAssessmentAreasMap”
Subsection 3.7 Locations of anticipated road construction and reconstruction.

See map “HRC_2016ProposedRoadWorkMap”

See document “HRC_2016WorkOrders”

Subsection 3.8 Roads that are anticipated to meet the standard of a permanent road.

Roads used for winter hauling meet the permanent road standard. The locations of these roads change from year to year, but generally consist of mainline roads and short side roads.

Subsection 3.9 Other information as appropriate.

See document “HRC_2015AnnualRoadInspections” - a list of roads inspected for the Annual Road Inspection Program (ARIP) per §6.3.3.5. The majority of these were conducted in the spring of 2015 following approval by the HCP Wildlife Agencies (April 21, 2015) to begin inspections early. Subsequent to this, an HCP Minor Amendment was approved for future ARIP inspections to begin April 1st annually.

See document “HRC_2015AnnualSiteWork” - a list of work orders for all sites completed in 2014.


See document “HRC_2015NoTreatVoidSites” - a list of sites which initially were planned to be completed in 2015 but were voided from the plan; some of which were determined to be ‘No Treat’ sites.