



Justice Center

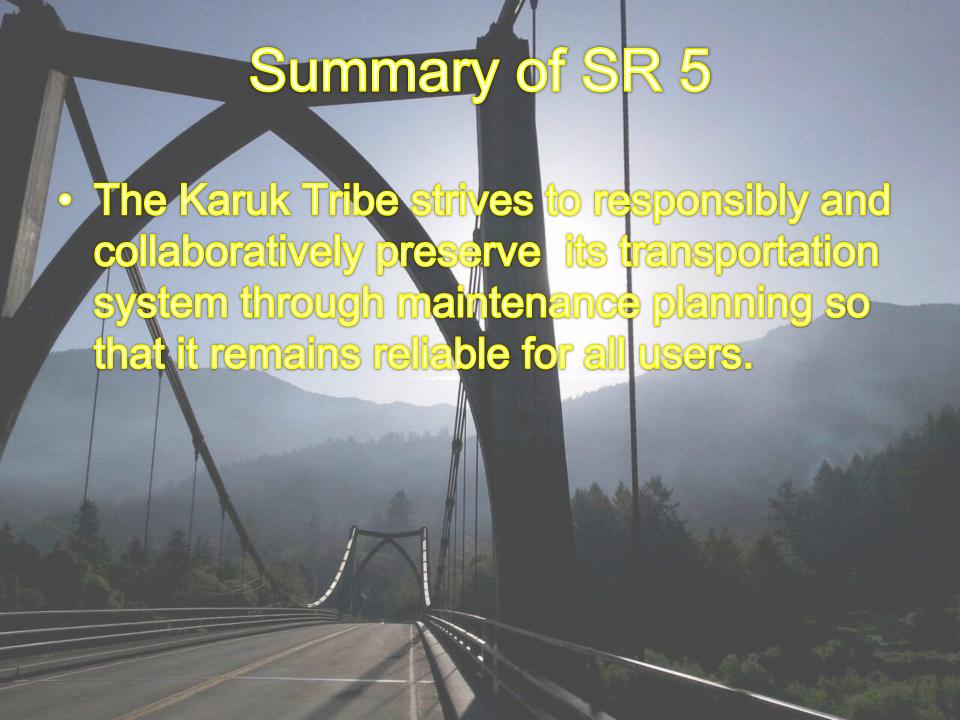
Under the Caltrans Tribal Engagement and Technical Assistance Project #74A0980.5

Agenda

- What is a Maintenance Plan?
- Summary of SR5
- About the Templates
- Maintenance Plan Template
- Equipment Maintenance Log Template
- How to use the Templates

What is a Maintenance Plan?

• A maintenance plan is a "living document" including schedules and reports which are updated periodically to reflect changes in maintenance policies, practices, equipment, and program improvements".



Summary of SR 5

The Karuk Tribe
 maintains transportation
 facilities and assets in 3
 locations spread over 115
 miles. This poses
 challenges to the Tribe
 for scheduling and
 tracking transportation
 maintenance activities.

The Tribe needs simple maintenance tracking tools and methods. Tribal maintenance personnel have varying capacities to operate computer software.

Summary of SR 5

• Objectives: Provide a maintenance plan template, web-based training session, site visit and follow-up technical assistance to increase the Tribe's capacity to develop its long-term transportation system maintenance plan.

• The Maintenance Plan and Equipment
Maintenance Log templates can be
modified and used as tracking tools by the
Karuk Tribe in coordination with its
transportation system plans and
operations. These tools may be useful for
other tribes in California.

Maintenance Plan Template

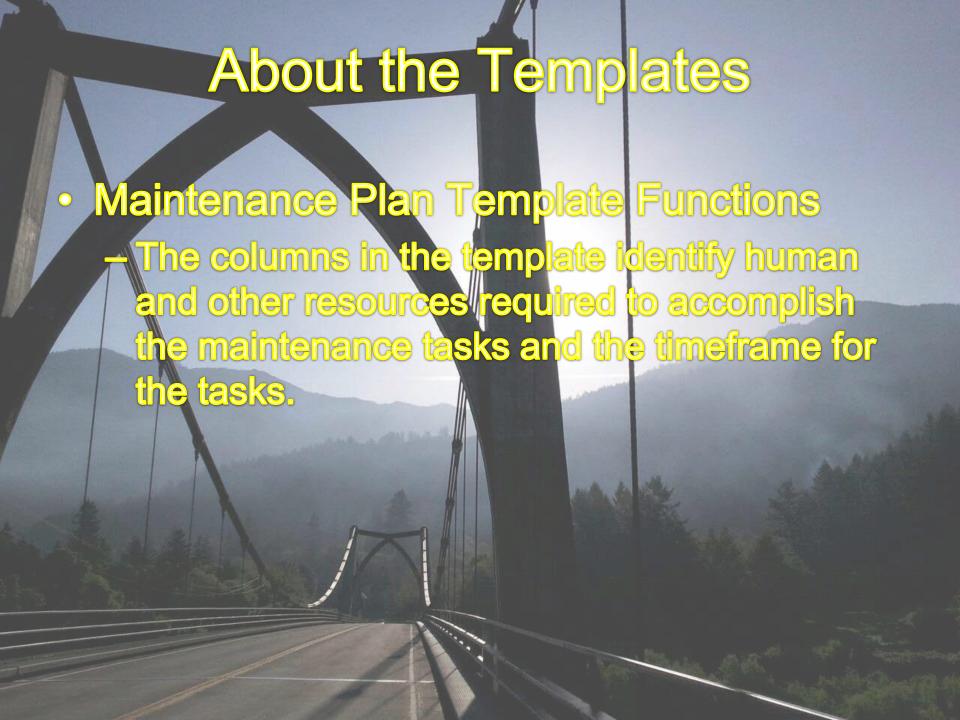
	KARUK TRIBE TRANSPORTATION SYSTEM MAINTENANCE PLAN																		
1							2020												
	Task	Activity	Tribal Personn el Assigned	Other Personne I	Tribal Equipmen t	Rental or Other Equipmen t	Material s &Suppli es	Winter		Spring		Summer		Fall					
		Routine & Preventative						De c	Ja n	Fe b	Mar	Ap r	Ma y	Jun e	Jul y	Au g	Sep t	Oc t	No v
ľ	1	Vegetation											,			Ŭ			
1	1.1	Inspect Vegetation																	
	1.2	Mowing of Vegetation																	
	1.3	Tree and Brush Trimming																	
	1.4	Maintenance of Vegetation																	
7	1.5	Removal of Vegetation														EX.	MA	PLE	
	1.5.1	BIA Route 1075 – Vegetation Clearing	John Doe	Engineer Contracto	Mechanic al weed control, deck mowers		Shovels , tree shears, grapple s, fuel	X			X			X			X		



 Maintenance Plan Template Functions

Rows

Identify and track tasks by major activities, sector, subtask, and routes and facilities, such as routine maintenance: ditches and culverts: route #: inspect culvert

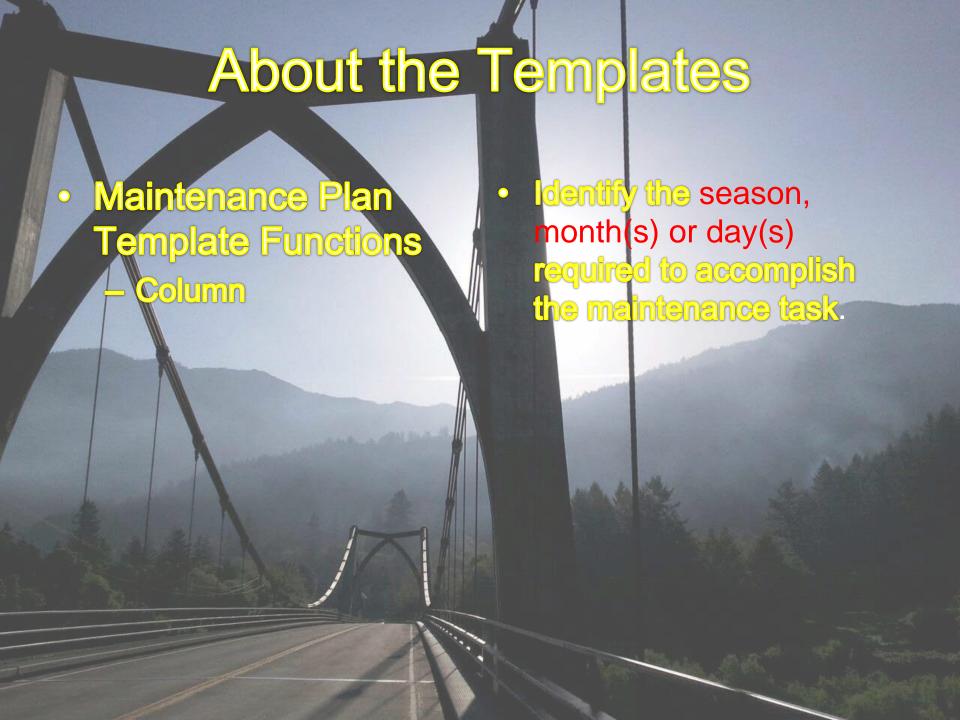


Maintenance Plan
 Template Functions
 Column

- personnel and other personnel (contractors, tribal or cooperating jurisdictions) assigned or needed to accomplish the maintenance task.
- Other agencies and independent contractors may be participating in the maintenance. Cultural monitoring may be needed.

Maintenance Plan
 Template Functions
 Column

• Identify the tribal equipment, rental/other equipment and materials and supplies needed to accomplish the maintenance task.





- There are two versions of the Microsoft Excel based Maintenance Plan template, including one with the option of drop-down lists.
 - Adding drop-down lists is easy!
 - We will demonstrate how to add drop-down lists in Excel further on in the webinar. The Template Guidance Document contains a Tips and Tools section where you can learn more.



 Manual version of the Maintenance Plan template.

- The user manually enters all data into the template.
- The template can be customized and expanded to suit the user's needs.

 Drop-down list version of the Maintenance Plan template.

- The user creates
 drop-down lists for
 each column and can
 select from the lists to
 develop the plan.
- The lists can be customized and expanded to suit the user's needs.

Drop-down list version of the Maintenance Plan template.

Quick Snapshot of a Drop-down list

Task	Activity	Tribal Personnel	Other
		Assigned	Personnel
	Routine &		
	Preventative		
1	Vegetation	U	
1.1	Inspect Vegetation		▼
1.2	Mowing of Vegetatio	Staff A Staff B L Staff C	
1.3	Tree and Brush Trimming	Staff D	-1
1.4	Maintenance of		
	Vegetation		
1.5			
	Removal of Vegetatio	n	





- To learn more about how to modify the template using drop-down lists, go to the Tips and Tools section of the guidance document.
- Drop-Down Lists may help the crew work more efficiently in worksheets/spreadsheets in Excel because it allows people to pick an item from a list.

Equipment Maintenance Log Template

Equipment Maintenance Log										
Name of	Farringsont		Manufacturer's contact							
Name of	Equipment		details:							
Label or	ID#:			Date of purchase:						
				Person resp	onsible for					
Serial nu	ımber:			equipment:						
Manufac	turer:			Date put into	service:					
Date:	Maintenance Description	Maintenance performed by:	Date of validation before put into service:	Validation performed by:	Next maintenanc e planned on (date):	Remarks:				

- An equipment maintenance log is a document that records activities that have been performed on an asset or equipment.
- The Equipment Maintenance Log template contains information about scheduled maintenance for all of the road maintenance equipment used by the Tribe.

How to Use the Maintenance Plan Template

- The basic template will need to be modified to include routes, facilities, assets, major tasks, and sub-tasks for each location.
- The Transportation Director may modified the template annually or at select intervals, or it may be accomplished by the entire maintenance team using the field experience of the team to identify tasks.

How to Use the Maintenance Plan Template

The graphic below provides an example of how the template can be filled in.

	Mair	Winter	Sprin g	Summer	Fall					
Task	Activity	Tribal Personnel	Other Personnel	Tribal Equipment	Rental or Other Equipment	Materials/ Supplies	Dec- Feb	Mar- May	Jun-Aug	Oct- Dec
Ex:	Vegetation Clearing	John Doe	Engineer Contractor	mechanical weed control, deck mowers	In-house	Shovels, tree shears, grapples, fuel	X	X	X	Х



• The modified template should be reviewed for periodic updates to account for changes in the tribal transportation system, such as condition and/or addition of routes, assets, facilities, tasks and resources.

How to Use the Maintenance Plan Template

- The template should be developed and used in coordination with the established maintenance standards, policies and procedures of the Tribe and/or other transportation facility owner.
- System conditions and levels of service and available funding must also be considered when developing the template for local use.

How to Use the Maintenance Plan Template

The template can be used to anticipate the annual maintenance needs/costs against the actual maintenance budget to determine gaps and funding shortfalls.

- Preventative and routine maintenance
- Periodic maintenance
- Emergency maintenance
- Equipment (operations and replacement)
- Maintenance staff training

- The log ensures that the Tribe's transportation maintenance team services their machinery within the specified interval to keep them operating efficiently.
- To help make sure that maintenance tasks are done diligently, records in the form of maintenance logs need to be created and updated. Being aware of the current condition of the assets is a step towards improving the overall department performance and ensuring safe working conditions.



• The following table is an example of the Equipment Maintenance Log Template. The Main headers provide information about the equipment: equipment name, serial number, location, manufacturer, manufacturer part number, manufacturer contact details, date manufactured, and date in service.

For similar types of equipment, to prevent confusion about which maintenance log refers to which piece of equipment, it is better to keep separate logs. For example, two same-sized excavators from the same manufacturer will differ in serial number and/or location.

Equipment Maintenance Log

	Manufacturer's contact
Name of Equipment	details:
Label or ID#:	Date of purchase:
	Person responsible for
Serial number:	equipment:
Manufacturer:	Date put into service:

The second part allows entries of maintenance activities.

Date:	Maintenance Description	Maintenance performed by:	Date of validation before put into service:	Validation performed by:	Next maintenance planned on (date):	Remarks:
	·	·	·			

• Details about the maintenance activity are listed: the date when it was performed; and a description of the maintenance activity; the person who performed the activity; the date; and person responsible for validating that the maintenance procedures were performed correctly.





Thank you!

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