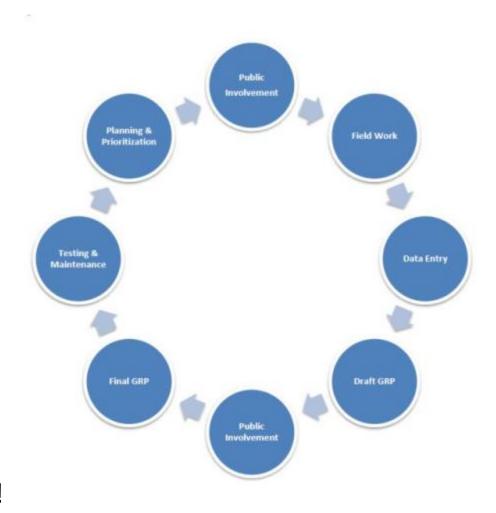
Spokane River

Geographic Response Plan - Update

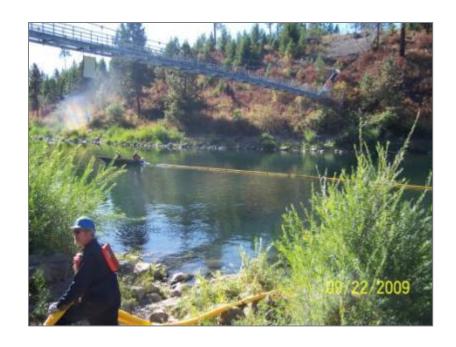
Geographic Response Plans

- More than just Oil Spill Response Strategies
- Designed for the initial/emergency phase of a response but contain information that can be used throughout a response
- 27 such plans in the Northwest, including 19 in Washington State
- Number of plans will grow!



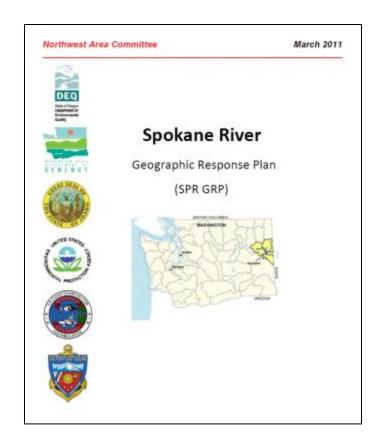
Spokane River GRP - Update

- Joint Effort between EPA, Washington, & Idaho
- First Update to plan, published in Feb 2006
- Workshop & Public
 Meeting in Spokane in
 June 2009
- Field Work: Summer 2009 to Spring 2010



Draft Updated Spokane River GRP

- Made available for Public Comment on May 15th
- Comments will be compiled at the end of this month
- Final Plan will hopefully be released by mid-July along with a responsiveness summary for comments submitted but not incorporated into the final version of the plan



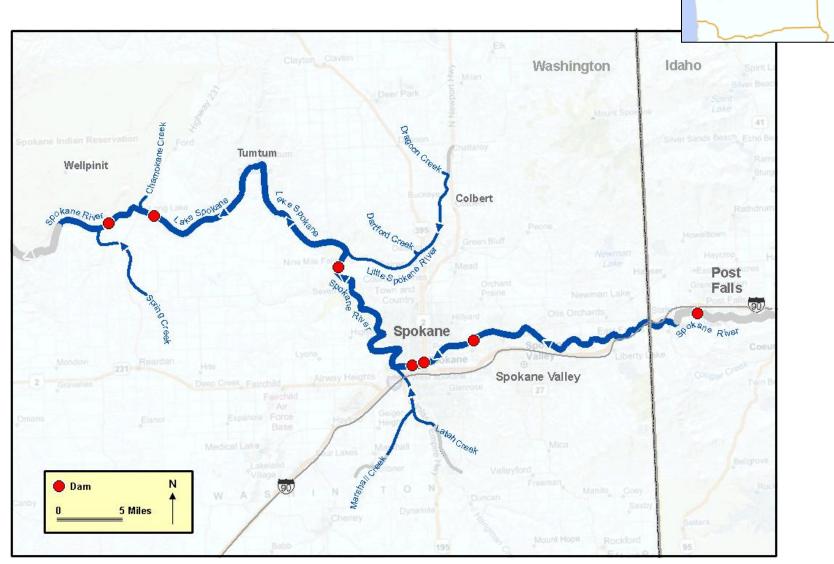
 On Ecology's Web Site at: http://www.ecy.wa.gov/programs/spills/preparedness/GRP/Spokane.html

Spokane River GRP

Provides coverage of the greater Spokane River subbasin, downstream of the Post Falls Dam in Idaho, through and beyond the city of Spokane, to the Spokane arm of Lake Roosevelt

- 76 miles of the Spokane River
- Over 7 miles of Spring Creek
- 1/2 mile of Chamokane Creek (aka Tshimikain Creek)
- 21 miles of the Little Spokane River
- 1/4 mile of Dartford Creek,
- 1/4 mile of Dragoon Creek
- 5 miles of Marshall Creek
- Over 7 miles of Latah Creek (aka Hangman Creek)

جراف Spokane River GRP



Spokane River GRP - Update

<u>Currently Published Version</u>: February 2006, 175 Pages

Existing Plan Chapters & Appendices:

- Chapter 1 Introduction
- Chapter 2 Site Description
- Chapter 3 Reference Maps
- Chapter 4 General Protection/Collection Strategies
- Chapter 5 Shoreline Countermeasures
- Chapter 6 Sensitive Resource/Wildlife Flight Restriction Information
- Chapter 7 Logistical Information
- Appendix A Protection Techniques
- Appendix B Geographic Response Plan Contributors
- Appendix C Geographic Response Plan Comments/Corrections/Suggestions

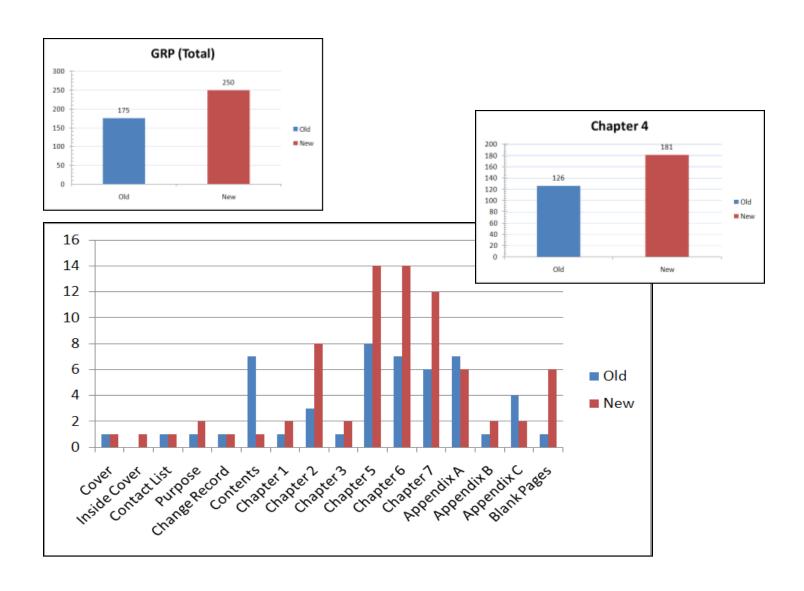
Spokane River GRP - Update

Draft Updated Version: May 2011, 250 Pages

<u>Updated Plan Chapters & Appendices</u>:

- Chapter 1 Introduction
- Chapter 2 Site Description
- Chapter 3 Reserved
- Chapter 4 Response Strategies & Priorities (& Appendices 4A, 4B, & 4C)
- Chapter 5 Shoreline Information
- Chapter 6 Resources at Risk (& Appendix 6A)
- Chapter 7 Logistical Information
- Appendix A Protection Techniques
- Appendix B GRP Contributors
- Appendix C GRP Comments, Corrections, Suggestions

Page Count Comparison – Existing vs. Updated



Chapter 1 - Introduction Yews

Simple Rewrite

Movement away from "protection" type language that sets up unrealistic expectations of what the GRP and GRP strategies can & cannot do. Spokane River - Geographic Response Plan-

Version 3.11

Spokane River Geographic Response Plan

Chapter 1 - Introduction

Geographic Response Plans (GRPs) are intended to help the response community avoid the initial confusion that isometimes accompanies the onest of an oil spill incident. This document serves as the federal and state on-scene-continators orders during the initial phase of a spill response for the Spokane River and its major tributaries. This plan has been approved by the Environmental Protection Agency Region 10 and the Weshington State Department of Ecology Spills Program. Changes to this document are expected as more testing to conducted through drills, site visits, and actual use in spill situations. We value your input and hope that you'll submit comments on how the plan might be improved. Please submit comments using the information provided in Appendix "C" or online at https://www.nrtllDinase.com/Comment.

GRPs have been developed for the marine and mland waters of Washington, Oregon, and lidaho. They are prepared through the efforts and cooperation of the Washington Department of Eaclogy, Washington Department of Fish and Wildlife, Oregon Department of Environmental Quality, 16tho State Emergency Response Commission, U.S. Coast Guard, Environmental Protection Agency, other state and federal agencies, tribal and local governments, response organizations, and emergency responders. GRPs are developed through workshops and meetings with federal, state, and local oil spill emergency response experts, response contractors, third representatives, industry, local governments, environmental organizations, ports, and pilots. Participants identify resources that may be at risk of injury from spills, develop oil spill response strategies to minimize injury to those resources, and provide information meeded to support logistics during a spill response.

After compiling information on sensitive resources in the area, site visits are conducted to gather data and determine if spill response strategies near those resources should be added, modified, or deleted. In this, the anticipated effectiveness of soliting strategies is reviewed, modifications made as determine necessary, potentially unsafe or ineffective strategies nemoved, and new strategies added to the plan. Unfortunately, the dynamics of manne and inland water environments and the limitations of current response technology make the development of strategies for all resource locations impracticable. An updated (straft) plan is produced after site visits are completed, Comments on the draft plan are provided by trustee agencies, stakeholders, and the public. A final version of the GRP is produced. A responsiveness summary is generated for all public comments received but not incorporated into the final version of the updated GRP.

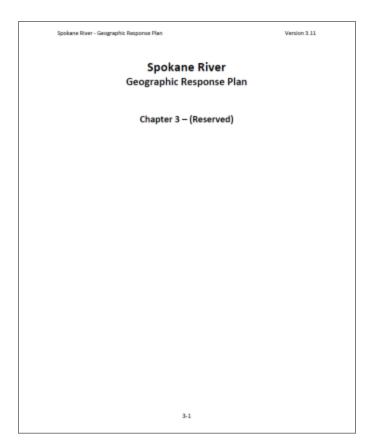
Chapter 2 – Site Description Lews

Rewritten, Content Updated

- Site Description, Physical Features, Hydrology, Climate, Risk Assessment, and References updated, expanded, and rewritten.
- Hydrology of the area described by Water Resource Inventory Area rather than Rivers & Creeks alone
- Risk Assessment greatly expanded, and used to identify potential oil spill source points (Spill Origin Points)

Chapter 3 (Reserved) News

- Chapter re-titled "Reserve"
- Reference Map in Chapter 3 relocated to Area Maps in Chapter 4
- Outdated Reference Maps in Chapter 3 of many of the GRPs conflict with information in Chapter 4
- Better to have all area & sector maps in one Chapter



Chapter 4 – Response Strategies & Priorities

- <u>Existing Plan</u> 52 Response Strategies
 26,750ft of boom
- <u>Updated Plan</u> 58 Response Strategies
 26,550ft of boom
- 16 Response Strategies Added (including six dam notification strategies)
- 10 strategies were removed,
- 29 strategies changed in some way
- 13 strategies unchanged.

Wichington State Department of Ecology, Version 3.11

NORTHWEST AREA COMMITTEE

SPOKANE RIVER
GEOGRAPHIC RESPONSE PLAN
(SPR GRP)
CHAPTER 4

Response Strategies & Priorities
March 2011

Chapter 4 – Response Strategies & Priorities

Rewritten & Reformatted

- Chapter Overview rewritten in a style similar to that found in the Outer Coast GRP.
- Area reference map in (old) Chapter 3 moved into section for Area Maps in (new) Chapter 4.
- Added area maps showing Dam, Response Strategy, Staging Area, Boat Launch, & Spill Origin Point Locations
- General response priorities added along with information on historical river velocity ranges
- Priority tables updated to reflect response priorities from locations at or near potential spill origin points, rather than priorities based on sector.

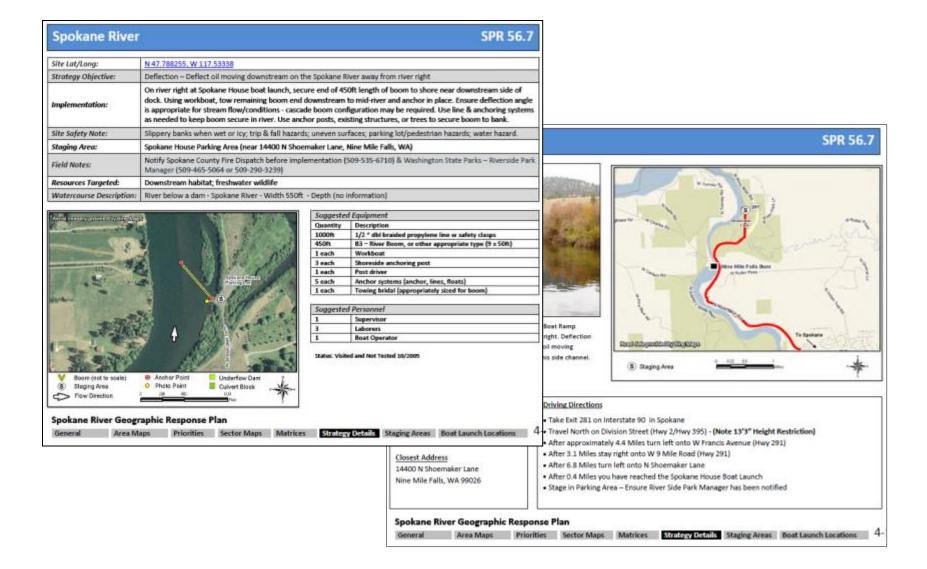
Chapter 4 – Response Strategies & Priorities



- Spill Origin Points derived from the risk assessment in Chapter 2
- Sector Maps are contained in a separate section rather than being intermingled with response strategy information
- Response matrices have their own section now; strategies listed in alpha- numeric order
- The "resources protected" heading in the matrices of the existing version has been changed to "resources at risk."
- Detailed 2-Page strategy information provided in Appendix 4A
- Detailed 2-Page Staging Area information provided in Appendix 4B
- Detailed 2-Page Boat Launch information provided in Appendix 4C

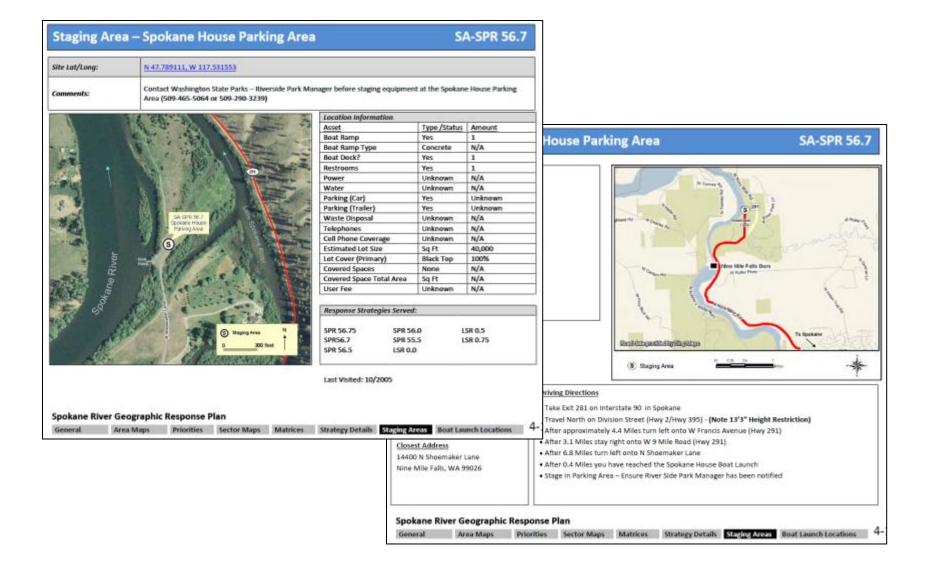
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Appendix 4A – Response Strategies



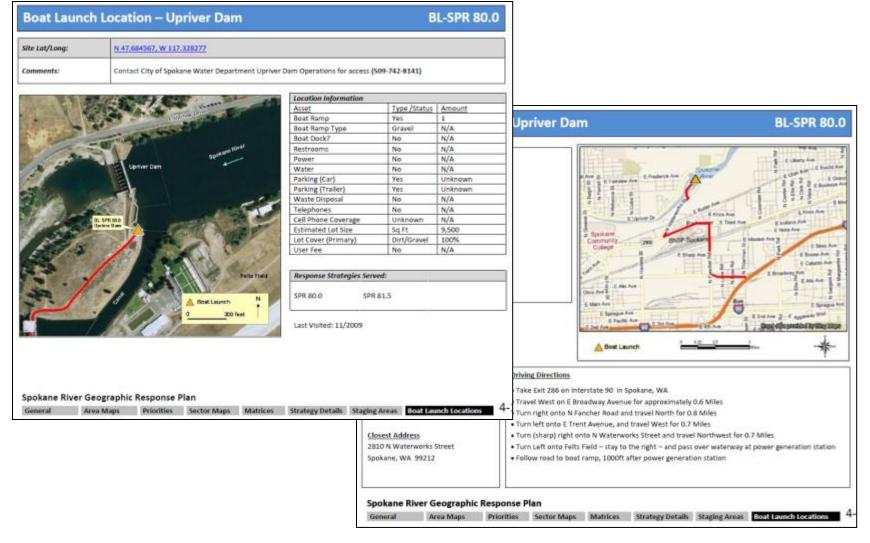
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Appendix 4B – Staging Areas



Appendix 4C – <u>Boat Launch Locations</u>

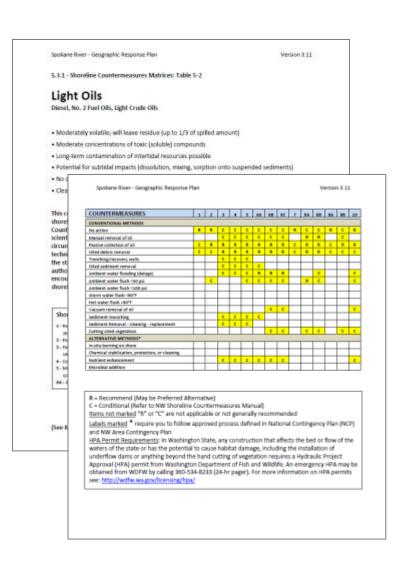




Chapter 5 – Shoreline Countermeasures

Simple Changes

Countermeasures Matrices for oils provided in 2-page format so it is easier to select the matrix for a particular oil type and easier to read.



Chapter 6 – Resources at Risk



Rewritten & Reformatted

- Chapter includes summary information on Natural, Cultural, and Economic Resources at Risk (Sensitive Resources)
- Content of Chapter made more general in nature, consistent with purpose of GRPs, but detailed enough to support initial EU functions after UC established
- Appendix 6A provides listing of Economic Resources at Risk

Spokane River - Geographic Response Plan

Version 8.11

Spokane River Geographic Response Plan

Chapter 6 - Resources at Risk

6.0 - Purpose of Chapter

The information presented in this chapter provides a summary of natural, cultural, and economic resources at risk, and gives general information on other related topics of importance for the Spokane River Geographic Response Plan (GRP) area. The information is not comprehensive, but meant to give response managers and first responders enough detail to cover the initial phase of an oil spill; discovery to the establishment of an Environmental Unit (EU) in the Planning Section of a Unitled Command. During an incident, detailed information regarding natural, cultural, and economic resources at risk will be provided by the EU. Specific resource concerns related to areas that already have designated protection strategies may be found in the "Resources Protected" column of the matrix describing the individual strategies. Sec GRP Chapter 4.

The information provided in this chapter is intended for use in:

- Providing resource-at-risk "context" to responders and clean-up personnel in the initial stages of a response.
- Briefing ICS personnel that may be unfamiliar with the general natural resource concerns related to the GRP area.
- Providing background information for personnel involved in media presentations and public outreach associated with a spill incident.

6.1 - Natural Resources at Risk - Summary

The Spokane River subbasin affords a wide variety of aquatic, ripartan, and upland habitats: These varied habitats support a complex diversity of wildfife species, including longe and small mammals, pescenter birds, raptors, upland birds, and waterfowl, repities; and amphiblans. Some species are resident throughout the year, others are migratory either within the subbasis or, in many cases, seasonally migrate outside the subbasis. Populations of certain species are tenuous and their future presence in the subbasis will require improved information and decisive management actions. Many wildfife species found in the subbasis are classified as

54

Appendix 6A – Economic Resources at Risk

Appendix - 6A List of Economic Resources at Risk March 2011 (Version 3.11)

Spokane River Geographic Response Plan Socio-Economic Resources at Risk

A. Critical Infrastructure

A1 - Drinking Water Intakes				
Name	Location/Address	Lat/Long	Contact	Phone

A2 - Energy/Power Generation Water Intakes (Lock & Dams Included)				
Name	Location/Address	Lat/Long	Contact	Phone
Post Falls Dam	Spokane River (RM100.8), Post Falls, ID	47.709047, -116.961082	Avista Utilities	(509) 495-4624
Upriver Dam	Spokane River (RM80.2), Spokane, WA	47.685701, -117.328609	City of Spokane	(509) 625-7800
Upper Falls Dam	Spokane River (RM76), Spokane, WA	47.662829, -117.415041	Avista Utilities	(509) 495-4624
Monroe Street Dam	Spokane River (RM74), Spokane, WA	47.661605, -117.425088	Avista Utilities	(509) 495-4624
Nine Mile Falls Dam	Spokane River, (RM58), Deer Park, WA	47.774868, -117.543776	Avista Utilities	(509) 495-4624
Long Lake Dam	Spokane River (RM34), Tumtum, WA	47.837185, -117.839162	Avista Utilities	(509) 495-4624
Little Falls Dam	Spokane River (RM29), Spokane Reservation, WA	47.829766, -117.918481	Avista Utilities	(509) 495-4624

A3 - Federal or State Water Projects or Irrigation Channels for Agriculture				
Name	Location/Address	Lat/Long	Contact	Phone

Chapter 7 – Logistical Information

Rewritten & Reformatted

- Logistical Resource Categories Expanded
- Contact information in existing plan relocated, as appropriate, into Spill Response Contact Sheet near beginning of plan
- Additional information on logistical resources can be added to categories as it is discovered
- Update format and categories should make maintenance of chapter more manageable

Spokane River - Geographic Response Plan

Version 3.11

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Spokane River Geographic Response Plan

Chapter 7 - Logistics

7.1 Chapter Introduction:

The logistical information contained in this chapter is meant to aid the response community during the initial phase of an oil spill. It may be particularly useful as the initial response transitions into a unified command. The information provided is not and should not be considered the "universe" of everything available to support a response. Additional and more current information may be found in area tolephone discoticis, online resources, reexpaper advertisements, and other media sources. The lack of information under certain categories in the chapter does not mean no logistical resources exist; only that information regarding those resources was not found or verified before conting this chapter. Chapter 5000 of the Northwest Area Contingency Plan (PWACP) also contains valuable logistical information. The NWACP is available online at http://www.rutfloreusc.com.

Information on Staging Areas and Boart Launch Locations can be found in Chapter 4 of this plan (see attachments 48 & 4C). Contact information for federal, state, tribal, and local agencies can be found on the "Spill Response Contact Sheet" located near the beginning of this plan. Detailed response resource information can be found on the Western Region Resource List (WSRIL). The WRIRE, is available online at http://www.wert.us.

We value your comments. To report outdated information, or recommend additional logistical resources, please submit comments using the information provided in Appendix °C° of this plan or online at hits///www.rt/10mws.com/Comment.

7.2 List of Logistical Resources:

This chapter contains information on the following logistical resources:

- Aircraft Support Helicopters & Fixed Wing
- Airports & Air Fields
- Ambulance Services (Air & Ground)
- Boat Cleaning Facilities
- Command Posts (Fixed & Mobile)

7-1

Chapter 7 - Logistical Categories

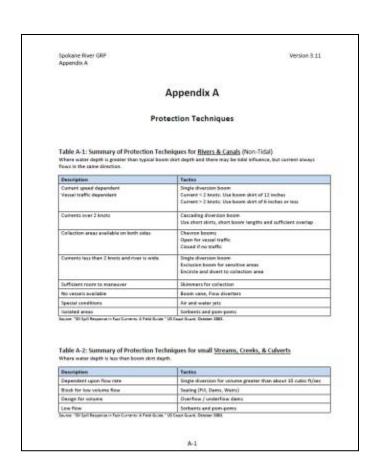
- Aircraft Support Helicopters& Fixed Wing
- Airports & Air Fields
- Ambulance Services (Air & Ground)
- Boat Cleaning Facilities
- Command Posts (Fixed & Mobile)
- Communications
- Cultural Resource Support
- Environmental & Conservation Organizations
- Fire Departments
- Food Services/Catering
- Hospitals & Medical Centers
- Hotels/Motels, Berthing Accommodations

- Marinas, Ports, Docks
- Military Bases/Installations
- Office Equipment Supply & Rental
- Oil Spill Response Contractors
- Outdoor Recreation Groups, Companies, & Organizations
- Park Facilities
- Rental Equipment Industrial/Commercial
- Response Equipment Cache Locations
- River Guides
- Security Services
- Support Personnel Local/Emergency
- Tribal Resources
- Transportation
- Wildlife Rehab Facilities & Cleaning

Appendix A – Protection Techniques

No Significant Changes

 Re-typed & touched up, but no substantial changes were made to text or format



Appendix B – Original Contributors

No Significant Changes

 Re-typed but no substantial changes were made to text or format Spokane River GRP Version 3.11 Appendix 5

Appendix B

Spokane River Geographic Response Plan - Original Contributors

ocal Representatives:	Federal Representatives:

Spokane County U. S. Environmental Protection Agency
Mr. Bill Hansen Mr. Calvin Terada
Mr. Rob Lindsay
Ms. Beat Lackoff
Ms. Beat Lackoff

State Representatives:
Lincoln County
Mr. Jeson Guthrie
Ms. Rebecca Post
Ms. Rebecca Post

Stevens County Mr. Kaith Holliday Mr. Bruce Garcia Mr. Mark Stephens

City of Spokane Washington State Department of Fish and Mr. Soott Mullernix Wildlife Mr. I Soot Mullernix Mr. Livyd Brewer Mr. Andy Carlson

Spokane County Conservation District Mr. Daniel Ross

Mr. John Bottelli

Mr. Daniel Ross
Industry and Response Contractors:

Spokane Aquifer Joint Board
Ms. Julia McHugh
Ecology & Environmental Consultants, Inc.
Ecology & Environment, Inc.
Yellowstone Pipeline Company

NRC Environmental Services

Tribal Representatives: Marine Spill Response Corporation
Chewon Corporation
Spokane Tribe of Indians Northwest Archaeological Associates, Inc.

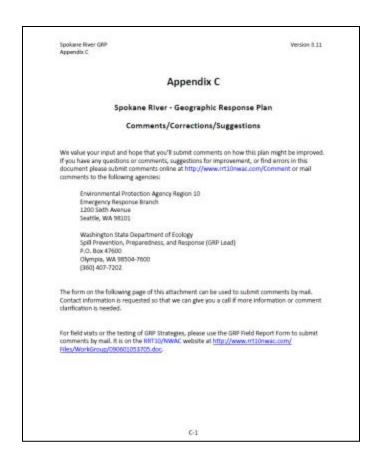
Mr. Lam Chan Clean Sound Cooperative Mr. Bill Matt

8-1

Appendix C – Comments/Corrections/Suggestions

No Significant Changes

- Re-typed and Comment Form re-crafted, but no substantial changes were made to text or format
- Use of RRT/NWAC comment page promoted



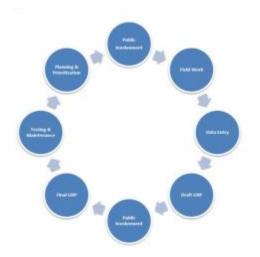
Draft Updated Spokane River GRP

- Comments will be compiled at the end of this month
- Final Plan will hopefully be released by mid-July
- Responsiveness Summary will be provided for comments submitted but not incorporated into the final version of the plan
- The draft plan is posted on Ecology's Web Site at: http://www.ecy.wa.gov/programs/spills/preparedness/GRP/Spokane.html

GRP Work Continues...

Active Ecology GRP Projects and Priorities

- Lower Columbia River GRP Update
- Grays Harbor GRP Update
- Skykomish portion of WRIA 7
- Ecology's GRP Database Upgrade by ESRI



Upcoming Ecology GRP Projects

- Middle Columbia River GRP Update
- Snohomish portion of WRIA 7
- Update of all GRP Chapters not recently updated
- Creation of Addendum to Chapter 4

Ecology GRP Contacts...

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Kelli Gustaf 425/649-7194 hchi461@ecy.wa.gov

Sonja Larson 360/407-6682 slar461@ecy.wa.gov Linda Pilkey-Jarvis 360/407-7447 jpil461@ecy.wa.gov

