

Lead Biologist (Scientist) for ROCON Barb
Staffing Chart for BA Technical Support and BiOp Development

BA Support

BA Outline Proposal
Recent Science Recommendations
Modeling recommendations
BA Workshop
Sufficiency Review

Lead Staff

Howard
Barb
Evan
BiOp Team
BiOp Team

Section 7 and EFH Consultation

Cover Letter
Introduction
Consultation History
Proposed Action
Action Area
Analytical Approach
Status of the Species and Critical Habitat
Environmental Baseline
Effects Analysis - Deconstructed Action
Effects Analysis by Division

Garwin
Garwin
Garwin
Evan
Evan
Cathy
Brittany
Brian

Trinity River Division
Shasta Division
American River Division
Delta Division
East Side Division
Fish Passage Program
Future Conditions/Climate Analysis
Effects by Species

Brian, Sarah
Brian
Jeff, Kristin
Barb, Kristin
Jon
Brian (WR),

Cummulative Effects

Integration and Synthesis

Barb

Incidental Take Statement (Need Google Sheet)

MSA/EFH

ESA Policy Support
Section 7 Coordinator

Recovery Analysis
Effects by Species

Barb
Brian (WR, SR) Joe (Sthd, Green sturgeon)
Division Leads with Howard

Rosalie
Naseem

Backup or Support Staff Killer Whale

Barb
Barb
Naseem
Naseem
Evan
Naseem

Cathy and Science Center (Eric)

Brian and Joe backup

on)

Back up for spring-run (Eri

Garwin to cross walk with 2009 for consistency

See Cathys report

Interview Erin about templates for effects and other lessons learned

Modeling

WR Life Cycle Model

Shasta Temps

Science/Tech Memos

Other

Real Time Operations

OPS Group	Current Lead	Interim Lead
SOG	Barb	Monica?
DOSS	Jeff, Kristin	Kristin
ARG	Gary, Garwin	
SRTTG	Sarah, Garwin	
Clear Creek	Sarah	
WOMT	Garwin, Jeff	
B2IT	Barb	
CALFED OPS	Barb, Jeff	
DAT	Jeff, Barb	
DCT	Jeff, Barb	
WIIN Storm Flex	Barb	

Major Gaps

Lead Staff

Backup

BA Receipt:

1/31/2019

Interim Milestone

Milestones for BiOp Section 1 Introduction

- 1 *Background*
- 2 *Coordination Operations Agreement*
- 3 *Consultation History*

Milestones for BiOp Sections 2.1 Proposed Acti

- 1 *Project Description*
- 2 *Interrelated and Interdependant Actior*
- 3 *Action Area*

Milestones for Section 2.2 Analytical Approach

- 1 *Introduction*
- 2 *Legal and Policy Framework*
- 3 *General Overview of the Approach and*
- 4 *Evidence Available for the Analysis*
- 5 *Integrating the Effects*
- 6 *Presentation of the Analysis in This Opi*

Milestones for Section 2.3 Range-wide Status o

- 1 *Species and Critical Habitat Not Likely t*
- 2 *Life Histories, Population Trends, Criticc*

Milestones for 2.4 Environmental Baseline

Species and Critical Habitat Not Likely t
Life Histories, Population Trends, Criticc

Milestones for BiOp Section 2.5 Effects of the A

- 1 *Planning and Analysis of Effects Analysis*
Completion of Effects Analysis.
Analyses Concluded for Bridg
- 2 *Complete Identification of Key Points a*
- 3 *Review of Key Points and Outline of Dis*
- 4 *Core Team Completes Initial Draft of Ef*
Date to Coordinator(s) for Re
- 5 *Complete Final Draft of Effects Analysis*
Initial Draft to Regional Coord
Revisions to Initial Draft Base
Initial Draft to ARA (In rolling
Revisions to Initial Draft Base
Completion of Final Draft Sec

Milestones for BiOp Section 2.6 Cummulative E

Milestones for BiOp Section 2.7 Integration and

- 1 *Complete Identification of Key Points a*
- 2 *Review of Key Points and Outline of Int*

- 3 Core Team Completes Initial Draft of In
Date to Coordinator for Review
- 4 Complete Final Draft of Integration and
Initial Draft to Reviewer(s) and
Initial Draft to ARA
Revisions to Initial Draft Base
Completion of Final Draft

Milestones for BiOp Section 2.9 Incidental Take

- 1 Complete Analyses Required for Take C
- 2 Complete Identification of Key Points and
- 3 Review of Key Points and Outline of Take
- 4 Complete Initial Draft of Take Determination
Date to Coordinator
- 5 Complete Final Draft of Take Determination
Initial Draft to Reviewer(s) and
Revisions to Initial Draft Base
Completion of Final Draft

	Date Start	Date End
	02/07/19	02/07/19
	02/07/19	02/14/19
	02/15/19	
on		
is	02/07/19	02/14/19
	02/15/19	
	02/07/19	02/14/19
<i>the Models Used</i>		
<i>nion</i>		
of the Species and Critical Habitat	02/07/19	02/14/19
<i>to be Adversely Affected by the Proposed Action</i>	02/07/19	02/07/19
<i>al Habitat, and Factors Affecting the Status of the Species</i>	02/07/19	02/07/19
	02/07/19	02/07/19
	02/07/19	02/07/19
	02/07/19	02/07/19
	02/07/19	02/07/19
	02/07/19	02/07/19
<i>to be Adversely Affected by the Proposed Action</i>	02/07/19	02/07/19
<i>al Habitat, and Factors Affecting the Status of the Species</i>	02/07/19	02/07/19
	02/07/19	02/07/19
	02/07/19	02/07/19
	02/07/19	02/07/19
	02/07/19	02/07/19
	02/07/19	02/07/19
Action On Species and Section 2.5 Effects of the Action on Critical Habitat	02/07/19	02/07/19
is	02/07/19	02/07/19
<i>s Structure</i>	02/07/19	02/07/19
<i>e Table and Effects Analysis Outline Completion</i>	02/07/19	02/07/19
<i>nd Develop Outline of Discussion of Effect and Logic</i>	02/07/19	02/07/19
<i>ssion of Effect by Management (via Meeting Presentations)</i>	02/07/19	02/07/19
<i>ffects Discussion and Logic (No Tech Editing)</i>	02/07/19	02/07/19
<i>view</i>	02/07/19	02/07/19
<i>;</i>	02/07/19	02/07/19
<i>inator and GC reviewers (in rolling fashion)</i>	02/07/19	02/07/19
<i>d on Review (In rolling fashion)</i>	02/07/19	02/07/19
<i>fashion) (12/9, 12/13, 12/15, 12/16 blocked as review days)</i>	02/07/19	02/07/19
<i>d on Review (Includes Reviewer Sign-Off on Revisions)</i>	02/07/19	02/07/19
<i>tions for Peer review)</i>	02/07/19	02/07/19
ffects	02/07/19	02/07/19
d Synthesis	02/07/19	02/07/19
<i>nd Develop Outline of Integration and Synthesis</i>	02/07/19	02/07/19
<i>egration and Synthesis by Management (via Meeting Presentations)</i>	02/07/19	02/07/19

tegration and Synthesis (No Tech Editing)	02/07/19	02/07/19
'w	02/07/19	02/07/19
l Synthesis	02/07/19	02/07/19
d GC (Division Coordinator, Regional Coordinator, Tech Editor)	02/07/19	02/07/19
	02/07/19	02/07/19
d on Review (Includes Reviewer Sign-Off on Revisions)	02/07/19	02/07/19
	02/07/19	02/07/19
Statement	02/07/19	02/07/19
Determination and RPMs	02/07/19	02/07/19
nd Develop Outline of Take Determination and RPMs	02/07/19	02/07/19
ke Determination and RPMs by Management (via Meeting Presentations)	02/07/19	02/07/19
ation and RPMs	02/07/19	02/07/19
	02/07/19	02/07/19
ation and RPMs	02/07/19	02/07/19
d GC (Division Coordinator, Regional Coordinator, ARA, Tech Editor)	02/07/19	02/07/19
d on Review (Includes Reviewer Sign-Off on Revisions)	02/07/19	02/07/19
	02/07/19	02/07/19

We can start some of this before initiation

Lead Staff
Initial Dra
Revisions t

We can start this before initiation

We can start this before initiation

We can start this before initiation



Drafting

raft to Section 7 Coordinator and NOAA GC

o Initial Draft based on review

Schedule

Section 1 Introduction

- 1.1. *Background*
- 1.2. *Coordinated Operations Agreement*
- 1.3. *Consultation History*

Section 2.0 Endangered Species Act

- 2.1 *Proposed Action*
 - 2.1.1. *Project Description*
 - 2.1.2. *Interrelated and Interdepend*
 - 2.1.3. *Action Area*

Section 2.2 Analytical Approach

- 2.2 *Analytical Approach*
 - 2.2.1. *Introduction*
 - 2.2.2. *Legal and Policy Framework*
 - 2.2.3. *General Overview of the App*
 - 2.2.4 *Evidence Available for the A*
 - 2.2.4. *Integrating the Effects*
 - 2.2.5. *Presentation of the Analysis*

Section 2.3 Range-wide Status of the Species and Critical Habitat

- 2.3 *Status of the Species*
 - 2.3.1. *Species and Critical Habitat*
 - 2.3.1.1. *CCC Steelhec*
 - 2.3.1.2. *CCC Stelheac*
 - 2.3.2. *Life Histories, Population Tr*
 - 2.3.2.1. *Chinook Salr*
 - 4.2.2.1.1.
 - 4.2.2.1.2.
 - 2.3.2.2. *Steelhead*
 - 2.3.2.3. *Green Struge*
 - 2.3.2.4. *Southern Re:*

Section 2.4 Environmental Baseline

- 2.4 *Environmental Baseline*
 - 2.4.1. *Species and Critical Habitat*
 - 2.4.1.1. *CCC Steelhec*
 - 2.4.1.2. *CCC Stelheac*
 - 2.4.2. *Life Histories, Population Tr*
 - 2.4.2.1. *Chinook Salr*
 - 5.2.2.1.1.
 - 5.2.2.1.2.
 - 2.4.2.2. *Steelhead*
 - 2.4.2.3. *Green Struge*
 - 2.4.2.4. *Southern Re:*

Section 2.5 Effects Analysis

- 2.5. *Effects Analysis*
 - 2.5.1. *Deconstructed Action*
 - 2.5.2. *Trinity River Division*
 - 2.5.3. *Shasta Division*
 - 2.5.4. *American River Division*
 - 2.5.6. *Delta Division*
 - 2.5.7. *East Side Division*

2.5.8. *Fish Passage Program*

Section 2.6 Cumulative Effects

2.6. *Cumulative Effects*

Section 2.7 Integration and Synthesis

2.7. *Integration and Synthesis*

Section 2.8 Conclusion

2.8. *Conclusion*

Section 2.9 Incidental Take Statement

2.9. *Incidental Take Statement*

2.9.1. *Amount or Extent of Anticip*

2.9.2. *Effect of the Take*

2.9.3. *Reasonable and Prudent Me*

2.9.3.1 *Reasonable (*

2.9.3.2 *Terms and C*

Section 3 MAGNUSON-STEVENS FISHERY CONSERVATION AND MA

3.1. *Essential Fish Habitat Affected by the Project*

3.2. *Adverse Effects on Essential Fish Habitat*

3.3. *Essential Fish Habitat Conservation Recommen*

3.4. *Statutory Response Requirement*

3.5. *Supplemental Consultation*

Section 4 Fish and Wildlife Coordination Act

Section 5 DATA QUALITY ACT DOCUMENTATION AND PRE-DISSEMI

Section 6 References

Section 6 Appendices

	Date Start	Date End	Week Number Start
	02/01/19	02/14/19	0
	09/01/16	09/21/16	
	02/01/19	02/14/19	0

dant Actions

	02/01/19	02/14/19	0
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*broach and the Models Used
nalysis*

in This Opinion

	02/01/19	02/14/19	0
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Not Likely to be Adversely Affected by the Proposed Action

ad

l Critical Habitat

ends, Critical Habitat, and Factors Affecting the Status of the Species

non

Winter-Run Chinook Salmon

Spring-Run Chinook Salmon

eon

sident Killer Whales

	02/01/19	02/14/19	0
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Not Likely to be Adversely Affected by the Proposed Action

ad

l Critical Habitat

ends, Critical Habitat, and Factors Affecting the Status of the Species

non

Winter-Run Chinook Salmon

Spring-Run Chinook Salmon

eon

sident Killer Whales

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ated Take

*asures and Terms and Conditions
and Prudent Measures
onditions*

MANAGEMENT ACT ESSENTIAL FISH HABITAT CONSULTATION	
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INATION REVIEW	
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Week Number End

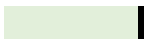
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BA Receipt: 1/31/2019

Section and Title	Lead Writer/Coordinator	Assistant Writer	Specialty Staff	Reviewer (Note: Naseem will review all sections for Division clearance; Who from NOAA GC will review all sections for GC clearance; names below are additional review)	Date to	Date to	Date to GC	Date End
					Date Start	Coordinator		
	Is primary person responsible for production (or coordination, where indicated) of assigned sections; will manage assisting staff who provide specialty expertise and support; will check-in with Cathy on status, issues, updates, etc.	Expected to work closely with lead writer to produce notable quantity of text and assist in compiling contributions from specialty staff.	Will provide expertise and assistance on specific components in very targeted matter; may be required to draft text regarding their component but is not responsible for overall section text production.	Will review section in draft form to ensure solid foundation and identify issues/concerns. Is expected to be consulted during draft development to provide early guidance on document objective and structure.				
1 INTRODUCTION	Garwin				02/01/19	02/15/19	02/15/19	02/15/19
1.1. Background	Garwin							
1.2. Consultation History and Considerations	Garwin							
1.2.1. Consultation History	Garwin							
1.2.2. Key Consultation Considerations	Garwin							
1.3. Proposed Action/Project Description	Garwin							
1.4. Interrelated and Interdependent Actions	Garwin							
1.5. Action Area	Garwin							
2 ENDANGERED SPECIES ACT: BIOLOGICAL OPINION AND INCIDENTAL TA	Garwin				02/07/19			07/24/19
2.1. Analytical Approach	Garwin	RBI			02/07/19	09/02/16	10/07/16	10/15/16
2.1.1. Introduction	Garwin	RBI						
2.1.2. Legal and Policy Framework	Garwin	Melanie R						
2.1.3. General Overview of the Approach and the Models Used	Garwin							
2.1.4. Evidence Available for the Analysis	Garwin							
2.1.4. Integrating the Effects	Garwin	RBI						
2.1.5. Presentation of the Analysis in This Opinion	Garwin	RBI						
2.2. Rangewide Status of the Species and Critical Habitat	Brian				02/07/19	08/30/16	08/30/16	10/01/16
2.2.1. Species and Critical Habitat Not Likely to be Adversely Affected	Brian							
2.2.2. Life Histories, Population Trends, Critical Habitat, and Factors	Brian							
2.2.2.1. Chinook Salmon	Brian							
2.2.2.1.1. Winter-Run Chinook Salmon	Brian			Yvette				
2.2.2.1.2. Spring-Run Chinook Salmon	Brian			Naseem				
2.2.2.2. Steelhead	Brian			Jeff S, Amanda				
2.2.2.3. Green Sturgeon	Brian			Doug, Joe, Yvette				
2.2.2.4. Southern Resident Killer Whales	?							
2.3. Environmental Baseline	Brian				02/07/19	10/15/16	10/22/16	10/29/16
2.3.1. Status of the Species and Critical Habitat	Brian							
2.3.1.1. Winter-Run Chinook Salmon	Brian			Yvette				
2.3.1.1.1. Winter-Run Chinook Salmon Critical	Brian							
2.3.1.2. Spring-Run Chinook Salmon	Brian			Naseem				
2.3.1.2.1. Spring-Run Chinook Salmon Critical	Brian							
2.3.1.3. Steelhead	Brian			Jeff S, Amanda				
2.3.1.3.1. Steelhead Critical Habitat	Brian							
2.3.1.4. Green Sturgeon	Brian			Doug, Joe, Yvette				
2.3.1.4.1. Green Sturgeon Critical Habitat	Brian							
2.3.2. Southern Resident Killer Whales	?							
2.4. Effects of the Action On (NMF5) Species	Garwin				02/07/19	05/11/19	05/18/19	05/18/19
2.4.1. Conveyance Facility Construction	Doug (activity coordinator)							
2.4.1.1. Winter-Run Chinook Salmon	Yvette							
2.4.1.1.1. Deconstruct the Action	Yvette							
2.4.1.1.2. Assess Species Exposure	Yvette							
2.4.1.1.3. Assess the Species Response	Yvette							
2.4.1.1.4. Assess the Risk to Individuals	Yvette							
2.4.1.2. Spring-Run Chinook Salmon	Naseem							
2.4.1.3. Steelhead	Jeff S.							
2.4.1.4. Green Sturgeon	Doug							
2.4.1.5. Southern Resident Killer Whales	Dan Lawson							
2.4.1.5.1. Fall-Run and Late-Fall Run Chinook	Brian							
2.4.2. Operations of New and Existing Facilities	Cathy, Yvette (activity coordinator)							
2.4.2.1. Winter-Run Chinook Salmon	Yvette							
2.4.2.2. Spring-Run Chinook Salmon	Naseem							
2.4.2.3. Steelhead	Jeff S.							
2.4.2.4. Green Sturgeon	Doug							
2.4.2.5. Southern Resident Killer Whales	Dan Lawson							
2.4.2.5.1. Fall-Run and Late-Fall Run Chinook	Brian							
2.4.3. Maintenance of Facilities (New and Existing?)	Doug (activity coordinator)							
2.4.3.1. Winter-Run Chinook Salmon	Yvette							
2.4.3.2. Spring-Run Chinook Salmon	Naseem							
2.4.3.3. Steelhead	Jeff S.							
2.4.3.4. Green Sturgeon	Doug							
2.4.3.5. Southern Resident Killer Whales	Dan Lawson							
2.4.3.5.1. Fall-Run and Late-Fall Run Chinook	Brian							
2.4.4. Conservation Measures	Doug (activity coordinator)	Sean						

Section and Title	Lead Writer/Coordinator	Assistant Writer	Specialty Staff	Reviewer (Note: Naseem will review all sections for Division clearance; Who from NOAA GC will review all sections for GC clearance; names below are additional review)				Date Start	Date to Coordinator	Date to Reviewer(s)	Date to GC	Date End
2.4.4.1. Winter-Run Chinook Salmon	Yvette	-										
2.4.4.2. Spring-Run Chinook Salmon	Naseem	-										
2.4.4.3. Steelhead	Jeff S.	-										
2.4.4.4. Green Sturgeon	Doug	-										
2.4.4.5. Southern Resident Killer Whales	Dan Lawson	-										
2.4.4.5.1. Fall-Run and Late-Fall Run Chinook	Brian	-										
2.5. Effects of the Action On (NMFS) Critical Habitat	Erin	-					02/07/19	05/11/19	05/18/19	05/18/19	05/25/19	
2.5.1. Conveyance Facility Construction	Sean	-										
2.5.2. Operations of New and Existing Facilities	Sean	-										
2.5.3. Maintenance of Facilities (New and Existing?)	Sean	-										
2.5.4. Conservation Measures	Sean	-										
2.6. Cumulative Effects	Cathy	-	Erin				08/09/16	11/10/16	11/17/16	11/17/16	11/24/16	
2.7. Integration and Synthesis	Cathy, Doug (coordinators)	-					05/25/19	12/21/16	06/22/19	06/22/19	06/29/19	
2.7.1. Winter-Run Chinook Salmon	Cathy, Yvette	-	Bruce (upstream temps and CCF)									
2.7.1.1. Status	Cathy, Yvette	-	Brycen (upstream temps and ops)									
2.7.1.2. Summary of Proposed Action Effects	Cathy, Yvette	-	Evan (monitoring and ad mgmt)									
2.7.1.3. Assess Risk to the Population	Cathy, Yvette	-	Lee (upstream temps)									
2.7.1.4. Assess Risk to the ESU/DPS	Cathy, Yvette	-	Erin (general)									
2.7.2. Winter-Run Chinook Salmon Critical Habitat	Sean	Cathy, Yvette	Monica (south Delta, construction)									
2.7.3. Spring-Run Chinook Salmon	Naseem	-	Joe (green sturgeon)									
2.7.4. Spring-Run Chinook Salmon Critical Habitat	Jeff S.	Naseem	Melanie O (water quality)									
2.7.5. Steelhead	Sean	Jeff S.	ESB (construction, design, engineering)									
2.7.6. Steelhead Critical Habitat	Sean	Jeff S.	Jonathan (critical habitat)									
2.7.7. Green Sturgeon	Doug	-	Amanda (steelhead)									
2.7.8. Green Sturgeon Critical Habitat	Sean	Doug	Melanie R (general)									
2.7.9. Southern Resident Killer Whales	Dan Lawson	-	John W (hydro and bench analyses, analytical)									
2.7.9.1. Pacific Coast Salmon	Brian	-										
2.8. Conclusions	Cathy	Doug					06/10/19				06/29/19	
2.9. Incidental Take Statement	Cathy (Coordinator)	-					04/16/19	12/30/16	01/02/16	01/02/16	07/24/19	
2.9.1. Amount or Extent of Anticipated Take	Lee	-										
2.9.1.1. Conveyance Facility Construction	Lee	Yvette, Naseem, Jeff S, Doug										
2.9.1.2. Operations of New and Existing Facilities	Lee	Yvette, Naseem, Jeff S, Doug										
2.9.1.3. Maintenance of Facilities (New and Existing?)	Lee	Yvette, Naseem, Jeff S, Doug										
2.9.1.4. Conservation Measures	Lee	Yvette, Naseem, Jeff S, Doug										
2.9.2. Effect of the Take	Cathy, Lee	-	Lee, Doug									
2.9.3. Reasonable and Prudent Measures and Terms and Conditions	Ryan	Cathy										
2.9.3.1. Reasonable and Prudent Measures	Ryan	-	All									
2.9.3.2. Terms and Conditions	Ryan	-	All									
2.10. Conservation Recommendations	Ryan	-	All				03/17/19				06/24/19	
2.11. Reinitiation of Consultation	Ryan, Melanie R	Cathy					03/17/19				07/24/19	
2.12. "Not Likely to Adversely Affect" Determinations	Cathy	-	Doug, Erin				05/25/19				06/24/19	
MAGNUSON-STEVENS FISHERY CONSERVATION AND MANAGEMENT ACT ESSENTIAL FISH HABITAT CONSULTATION												
3.1. Essential Fish Habitat Affected by the Project	Jonathan	-					08/09/16	11/17/16	11/24/16	11/24/16	12/15/16	
3.2. Adverse Effects on Essential Fish Habitat	Jonathan	-										
3.3. Essential Fish Habitat Conservation Recommendations	Jonathan	-										
3.4. Statutory Response Requirement	Jonathan	-										
3.5. Supplemental Consultation	Jonathan	-										
FISH AND WILDLIFE COORDINATION ACT												
4. DATA QUALITY ACT DOCUMENTATION AND PRE-DISSEMINATION REVIEW	Erin, Cathy	-					03/21/19				11/15/16	
5. DATA QUALITY ACT DOCUMENTATION AND PRE-DISSEMINATION REVIEW	Erin, Cathy	-					03/21/19				11/15/16	
6. REFERENCES	Norma, Dave	-					02/07/19				07/24/19	
7. APPENDICES	Priscilla	-					02/07/19				07/24/19	

BA Receipt:

8/2/2016

Interim Milestone	Date Start	Date End	Week Number Start	Week Number End
Milestones for BiOp Section 1 Introduction and Consultation History				
1 Introduction	08/09/16	#REF!	1	#REF!
<i>Background</i>	09/01/16	09/21/16		
<i>Coordinated Operations Agreement</i>				
<i>Consultation History</i>				
2 Proposed Action	10/02/16	10/16/16	9	11
Proposed Action				
Interrelated and Interdependant Actions				
Action Area				
3 Analytical Approach	10/16/16	10/23/16	11	12
4 Status of the Species and Critical Habitat	10/23/16	11/10/16	12	14
<i>Date to Coordinator(s) for Review</i>	11/10/16	11/17/16		
5 Complete Final Draft of Effects Discussion and Logic	11/17/16	11/24/16	15	16
<i>Initial Draft to Reviewer(s) and GC (Division Coordinator, Regional Coordinator, ARA, Tech Editor)</i>	11/17/16	11/20/16		
<i>Revisions to Initial Draft Based on Review (Includes Reviewer Sign-Off on Revisions)</i>	11/20/16	11/24/16		
<i>Completion of Final Draft</i>	11/24/16			
Interim Milestones for BiOp Section 2.7 Integration and Synthesis				
1 Complete Identification of Key Points and Develop Outline of Integration and Synthesis	11/24/16	12/08/16	16	18
2 Review of Key Points and Outline of Integration and Synthesis by Management (via Meeting Presentations)	12/08/16	12/15/16	18	19
3 Core Team Completes Initial Draft of Integration and Synthesis (No Tech Editing)	12/15/16	12/21/16	19	20
<i>Date to Coordinator for Review</i>	12/21/16	12/22/16		
4 Complete Final Draft of Integration and Synthesis	12/22/16	12/29/16	20	21
<i>Initial Draft to Reviewer(s) and GC (Division Coordinator, Regional Coordinator, ARA, Tech Editor)</i>	12/22/16	12/26/16		
<i>Revisions to Initial Draft Based on Review (Includes Reviewer Sign-Off on Revisions)</i>	12/26/16	12/29/16		
<i>Completion of Final Draft</i>	12/29/16			
Interim Milestones for BiOp Section 2.9 Incidental Take Statement				
1 Complete Analyses Required for Take Determination and RPMs	09/20/16	11/27/16	7	17
2 Complete Identification of Key Points and Develop Outline of Take Determination and RPMs	11/27/16	12/11/16	17	19
3 Review of Key Points and Outline of Take Determination and RPMs by Management (via Meeting Presentations)	12/11/16	12/18/16	19	20

Interim Milestone	Date Start	Date End	Week Number Start	Week Number End
4 Complete Initial Draft of Take Determination and RPMs <i>Date to Coordinator</i>	12/18/16 12/30/16	12/30/16 01/02/17	20	21 22
5 Complete Final Draft of Take Determination and RPMs <i>Initial Draft to Reviewer(s) and GC (Division Coordinator, Regional Coordinator, ARA, Tech Editor)</i> <i>Revisions to Initial Draft Based on Review (Includes Reviewer Sign-Off on Revisions)</i> <i>Completion of Final Draft</i>	01/02/17 01/02/17 01/11/17 01/23/17	01/23/17 01/23/17 01/11/17 01/23/17	22	25

DRAFT: 9/13/2016

BA Receipt:

8/2/2016

Interim Milestone	Date Start	Date End
Interim Milestones for BiOp Sections 1 (introduction), 2.2 (Status of species), and 2.4 (Environmental baseline)		
<i>Initial Draft to ARA (12/6 blocked as review day)</i>	12/6/2016	12/08/16
Interim Milestones for BiOp Section 2.4 Effects of the Action On Species and Sectoin 2.5 Effects of the Action on Critical Habitat		
1 Planning and Analysis of Effects Analysis	08/09/16	10/02/16
<i>Completion of Effects Analysis Structure</i>	09/01/16	09/21/16
<i>Analyses Concluded for Bridge Table and Effects Analysis Outline Completion</i>	09/12/16	10/02/16
2 Complete Identification of Key Points and Develop Outline of Discussion of Effect and Logic	10/02/16	10/24/16
3 Review of Key Points and Outline of Discussion of Effect by Management (via Meeting Presentations)	10/24/16	10/28/16
4 Core Team Completes Initial Draft of Effects Discussion and Logic (No Tech Editing)	10/28/16	11/10/16
<i>Date to Coordinator(s) for Review</i>	11/10/16	11/17/16
5 Complete Final Draft of Effects Analysis	11/18/16	12/09/16
<i>Initial Draft to Regional Coordinator and GC reviewers (in rolling fashion)</i>	11/28/16	12/08/16
<i>Revisions to Initial Draft Based on Review (In rolling fashion)</i>	12/05/16	12/12/16
<i>Initial Draft to ARA (In rolling fashion) (12/9, 12/13, 12/15, 12/16 blocked as review days)</i>	12/09/16	12/16/16
<i>Revisions to Initial Draft Based on Review (Includes Reviewer Sign-Off on Revisions)</i>	12/16/16	12/23/16
<i>Completion of Final Draft Sections for Peer review</i>	12/23/16	
Interim Milestones for BiOp Section 2.7 Integration and Synthesis		
1 Complete Identification of Key Points and Develop Outline of Integration and Synthesis	11/24/16	12/15/16
2 Review of Key Points and Outline of Integration and Synthesis by Management (via Meeting Presentations)	12/15/16	12/15/16
3 Core Team Completes Initial Draft of Integration and Synthesis (No Tech Editing)	12/15/16	12/27/16
<i>Date to Coordinator for Review</i>	12/27/16	12/30/16
4 Complete Final Draft of Integration and Synthesis	12/30/16	01/19/16
<i>Initial Draft to Reviewer(s) and GC (Division Coordinator, Regional Coordinator, Tech Editor)</i>	12/30/16	01/13/16
<i>Initial Draft to ARA</i>	12/30/16	01/13/16
<i>Revisions to Initial Draft Based on Review (Includes Reviewer Sign-Off on Revisions)</i>	01/13/16	01/19/16
<i>Completion of Final Draft</i>	01/19/16	
Interim Milestones for BiOp Section 2.9 Incidental Take Statement		
1 Complete Analyses Required for Take Determination and RPMs	09/20/16	11/28/16
2 Complete Identification of Key Points and Develop Outline of Take Determination and RPMs	11/28/16	12/02/16
3 Review of Key Points and Outline of Take Determination and RPMs by Management (via Meeting Presentations)	12/02/16	12/16/16
4 Complete Initial Draft of Take Determination and RPMs	12/16/16	12/23/16
<i>Date to Coordinator</i>	12/23/16	12/30/16
5 Complete Final Draft of Take Determination and RPMs	12/30/16	01/19/16
<i>Initial Draft to Reviewer(s) and GC (Division Coordinator, Regional Coordinator, ARA, Tech Editor)</i>	12/30/16	01/13/16
<i>Revisions to Initial Draft Based on Review (Includes Reviewer Sign-Off on Revisions)</i>	01/13/16	01/19/16

Interim Milestone	Date Start	Date End
<i>Completion of Final Draft</i>	01/19/16	

DRAFT:111/28/2016