

FINAL

Upper San Joaquin River Regional Flood Management Plan

Work Plan

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Prepared by:

San Joaquin River Flood Control Project Agency

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Table of Contents

Acronyms and Abbreviations.....	V
1.0 Introduction	1-1
2.0 Work Plan	2-1
2.1 Task 1: Project Administration and Work Plan	2-1
2.2 Task 2: Coordination and Collaboration	2-1
2.2.1 Task 2.1: Identify a Plan to Engage All Interested Parties	2-1
2.2.2 Task 2.2: RFMP Planning Meetings	2-2
2.2.3 Task 2.3: RFMP workshops.....	2-2
2.2.4 Task 2.4: Participate in RFMP briefings.....	2-2
2.3 Task 3: Update the Regional Atlas.....	2-3
2.4 Task 4: Develop Regional Flood Management Plan	2-3
2.4.1 Task 4.1: Regional Settings.....	2-3
2.4.2 Task 4.2: Assessments of Flood Hazards in the Region	2-3
2.4.3 Task 4.3: Emergency Response Planning	2-4
2.4.4 Task 4.4: Enhanced Operations and Maintenance	2-4
2.4.5 Task 4.5: Land Use and Environmental Enhancements.....	2-4
2.4.6 Task 4.6: Proposed Regional Improvements.....	2-4
2.4.7 Task 4.7: Regional Priorities.....	2-5
2.4.8 Task 4.8: Regional Financial Plan.....	2-5
2.4.9 Task 4.9: Executive Summary and Plan Completion	2-5

Appendix

Appendix A: Upper San Joaquin River Regional Flood Management Plan Schedule

TABLE OF CONTENTS

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Acronyms and Abbreviations

b/c	benefit-to-cost
C&C	Coordination and Collaboration
CVFPP	Central Valley Flood Protection Plan
DWR	California Department of Water Resources
GIS	Geographic Information System
NULE	Non-Urban Levee Evaluation
O&M	operations and maintenance
RFMP	Regional Flood Management Plan
ULE	Urban Levee Evaluation

ACRONYMS AND ABBREVIATIONS

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1.0 Introduction

The purpose of this Work Plan is to provide a brief description of the work activities and implementation schedule for the Upper San Joaquin River Regional Flood Management Plan (RFMP). The Upper San Joaquin River Region encompasses the areas that are protected by the State Plan of Flood Control Facilities along the San Joaquin River from Gravelly Ford to the confluence of the Merced River. The RFMP identifies high-priority solutions for regional flood risk reduction that are both economically viable and implementable. In addition, the RFMP identifies and articulates flood management challenges and deficiencies at the regional level, as well as the potential actions and projects identified by local agencies and interest groups for the region. Project prioritization will illustrate the benefits of the projects. Project costs will be estimated and financial strategies identified for potential funding sources.

This Work Plan is Deliverable 1 of Task 1. It is intended to provide a basis for assessing and reporting progress, as well as associated quality control and status of the work. The timelines and milestones are presented in detail on the schedule in Appendix A. This Work Plan explains the various elements of the subtasks, including associated objectives and interrelationships.

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2.0 Work Plan

San Joaquin River Flood Control Project Agency and its consultant, CH2M HILL, will perform the tasks described in this Work Plan as an integrated team. This integrated team, known as the Regional Flood Management Plan (RFMP) team, will conduct technical team meetings to coordinate subtask work efforts, review work progress, assess technical issues, and monitor quality control review.

The following sections describe the tasks and deliverables.

2.1 Task 1: Project Administration and Work Plan

Prepare a Project Work Plan and Schedule within 30 days from the date of the Authorization to Proceed. The Project Work Plan includes milestones with dates that will allow the successful completion of the plan. Following review of the Project Work Plan by the San Joaquin River Flood Control Project Agency and incorporation of any comments, the Work Plan will be distributed to the stakeholders. The RFMP team will periodically update the Project Work Plan, as necessary, to address changes in cost, scope, schedule, and resources.

Task 1 Deliverables:

1. Project Work Plan and monthly updates on work activities
2. Baseline Schedule and Monthly Updates
3. Monthly report on expenditures
4. Final written Completion Report

2.2 Task 2: Coordination and Collaboration

Coordination and collaboration with local stakeholders are essential for accomplishing the planning effort. The RFMP team will coordinate with the regional flood management agencies to prepare the RFMP. This will include representatives of local implementing/operating, and local maintaining agencies; local land use agencies (cities and counties); flood emergency responders; permitting agencies; and agricultural, tribal, and environmental entities that are knowledgeable about the flood risks and potential solutions within the flood region. The RFMP team will set up a Web site to promote coordination with the stakeholders and facilitate document distribution.

2.2.1 Task 2.1: Identify a Plan to Engage All Interested Parties

It is important that the RFMP reflect the shared understanding and recommendations of the stakeholders. Regional flood management implementing/operating and maintaining agencies; cities and counties within the region; emergency responders; and agricultural, tribal, and environmental interests should participate in developing the RFMP. The RFMP team will develop a plan for coordination within the region and will be responsible for implementation of the coordination and collaboration process.

The RFMP team will develop the Draft Coordination and Collaboration (C&C) Plan and will submit it for review at the first meeting. The C&C Plan will include a list of organizations that should participate in development of the RFMP and will include proposed dates for the required meetings, along with a list of the primary agencies that need to attend those meetings. The C&C Plan will address the plan messaging

WORK PLAN

to establish how the process will be advertised and how the region will be notified. The regional C&C Plan will maximize collaborative work, identify areas of overlapping subject matter, and support the plan development. The RFMP team will finalize the C&C Plan after receipt of comments from the stakeholders.

2.2.2 Task 2.2: RFMP Planning Meetings

The RFMP team will coordinate and conduct initial regional planning meetings to organize the stakeholders and the regional planning effort. Coordination will include advertising and inviting all agencies and entities that need to participate in development of the RFMP, as defined in the C&C Plan. Also to be coordinated are agendas and meeting materials, securing the meeting facilities, and providing the computers, projectors and screens, as needed. It is anticipated that up to three meetings will be conducted. The meetings will be at the office of the Lower San Joaquin Levee District, 11704 W. Henry Miller Avenue, Dos Palos, California. The RFMP team will facilitate the meetings and prepare meeting minutes that include future action items and “parking lot” issues.

2.2.3 Task 2.3: RFMP workshops

The RFMP team will coordinate and conduct up to 10 workshops to discuss and develop the RFMP sections. Each meeting will introduce the section topic and discuss it; the next meeting will finalize that section for the plan. In this fashion, each workshop will discuss at least two sections of the RFMP, starting one and concluding another. The workshops will be spaced approximately 1 month apart, or as approved by the San Joaquin River Flood Control Project Agency. All the workshops will be set up ahead of time with the coordination plan. There will be a due date/deadline established between the workshop and submittal of information from the stakeholders. This task will include collection, organization, and understanding of the existing detailed regional flood management information (regional content) from the stakeholders working group. The workshops will be at the office of the Lower San Joaquin Levee District.

2.2.4 Task 2.4: Participate in RFMP briefings

The RFMP team will participate in various briefings of the regional planning effort and the RFMP. The briefings anticipated in this planning effort include local governing boards and councils, Central Valley Flood Protection Board, the California Department of Water Resources (DWR) Planning Steering Committee, and other entities interested in the regional planning effort. The level of participation in the briefings will vary and may include making presentations, providing technical support, providing materials and presentation equipment, and taking notes. The RFMP team will prepare documentation of the meetings and provide them to the stakeholders. It is anticipated that up to 20 briefings may be conducted.

Task 2 Deliverables:

1. Draft Communications and Coordination Plan
2. Final Communications and Coordination Plan
3. List of organizations that participated in development of the RFMP
4. Planning meetings
5. Workshops
6. Briefings

2.3 Task 3: Update the Regional Atlas

DWR has provided the Draft Regional Atlas, which documents the current state of the regional flood risks. The Regional Atlases (representing existing and “current state”) are primarily graphic depictions of the region, its assets and resources, flood management agencies, the flood risk characteristics of each region, and Central Valley Flood Protection Plan (CVFPP) information as related to the region. The Regional Atlas will present factual and existing information. The RFMP team will coordinate updating and finalizing the Regional Atlas with the stakeholders, using any additional local information that results from the planning effort. The RFMP team will coordinate the review of the draft Atlas, update the Atlas as recommended by the stakeholders, append the final Regional Atlas to the RFMP, and provide DWR with all the Geographic Information System (GIS) layers and electronic files used in the update. Up to 20 copies of the updated final Regional Atlas will be printed for distribution with the final report.

Task 3 Deliverables:

1. Coordinate update of Regional Atlas
2. Perform updates of Regional Atlas
3. Incorporate the Atlas into the Regional Plan
4. Provide GIS and other electronic files to DWR

2.4 Task 4: Develop Regional Flood Management Plan

The RFMP team will prepare the nine sections of the RFMP. Each topic section will then be collected and collated into the final RFMP. The nine sections have different due dates, as shown in the project schedule. The RFMP team will perform research, collect information during the regional workshops, and solicit information from DWR and the stakeholders during preparation of each section. Most information included in the RFMP is anticipated to be existing, with little new information to be generated. The Agency will approve all work to develop new technical information.

2.4.1 Task 4.1: Regional Settings

One section will provide the region’s flood history, natural resources and assets, demographics, land use, economy, and other region-specific information. The regional setting will be used to characterize flood system deficiencies and risks within the region. The regional setting also identifies the stakeholders and their respective jurisdictions, roles, and responsibilities with respect to reducing both the risks and consequences of flood within the region. Specific information to be included in this section includes population density by area, zoned land uses, industry and economic elements, streams and rivers, historical flood events, local flood management agencies and their respective jurisdictions, and miscellaneous other information.

2.4.2 Task 4.2: Assessments of Flood Hazards in the Region

Another section will describe regional flood hazards and system deficiencies, as well as the levees, channels, structures and other existing assets for managing or mitigating flood risks. It also will identify the locations of urban and rural communities relative to these hazards and deficiencies for assessing the region’s flood risks. The section will include information to help define flood system deficiencies in the region, identify flood assets in the region, identify urban versus rural versus open space areas, and identify

locations and populations of small communities relative to flood deficiencies. Information collected from DWR's Urban Levee Evaluation (ULE) and Non-Urban Levee Evaluation (NULE) programs will be incorporated into this section, as available.

2.4.3 Task 4.3: Emergency Response Planning

One of the most important strategies for addressing residual risk is Emergency Response. The RFMP will identify the roles and responsibilities of the region's emergency responders, along with the level and quality of their readiness (indicated by such issued as adopted Emergency Plans, frequency of training and retraining of responders, stockpiling of equipment and materials needed for flood fights). In addition, The RFMP team will solicit information from the stakeholders to identify potential enhancements to regional emergency response systems, and resources and assets and to identify potential sources of financial and technical assistance for Emergency Response Planning. This section also will include the State of Emergency Response readiness within the region, including lists of Emergency Response Plans in place, the entities responsible for responding to emergencies within each region, and the extent to which residual risk is capable of being addressed within the region.

2.4.4 Task 4.4: Enhanced Operations and Maintenance

The RFMP team will work with the stakeholders to identify strategies for reducing flood risks through enhanced operations and maintenance (O&M). The RFMP team will solicit information from the stakeholders on the level of funding, training, and other resources that may be needed to implement these recommended strategies. This section will include strategies for improving O&M in the region and for providing sustainable funding for O&M. In addition, the plan will examine the opportunities for regional O&M consolidation.

2.4.5 Task 4.5: Land Use and Environmental Enhancements

Land use (zoning) is an essential tool for managing flood risks. In particular, State law requires that local jurisdictions do not increase State risks by allowing development within floodplains. Through the regional planning process, The RFMP team will solicit information from the stakeholders to develop measures to ensure appropriate local planning to reduce flood risks in the floodplains. Cities and counties that are required to update their general plans to incorporate data and analyses from the CVFPP will be discussed in this section. DWR will provide status reports of the work from other DWR programs. The section will consider environmental interests because land use decisions will have an impact on opportunities for environmental restoration. The RFMP team will develop strategies for resolving land use issues in providing for environmental restoration in the region.

2.4.6 Task 4.6: Proposed Regional Improvements

Once the current state of the flood protection systems in the region has been established, The RFMP team will solicit information from the stakeholders to identify management actions to reduce flood risks, including both structural and nonstructural solutions. The ultimate objective of this section of the regional planning process is to identify specific solutions (i.e., projects) that could cost-effectively reduce flood risks. The proposed solutions should be technically, politically, and economically feasible, and should be effective in achieving the targeted reduction in flood risks while improving environmental quality and other complementary values. Proposed regional improvements should be described in the context of the

San Joaquin River system, including interactions with upstream and downstream regional projects. Specific information to be included in this section are a list and description of proposed improvements (including structural and nonstructural solutions), ecosystem projects in the region, estimated costs and benefits for the proposed improvements, and an estimate of the flood risk reduction value of the proposed improvements. DWR will provide any hydraulic models and perform minor modeling needed to understand flood elevations and channel capacities. The RFMP team will use existing information to develop costs and benefits for all proposed improvements and will work closely with the Agency on the need to develop new cost estimates and benefits.

2.4.7 Task 4.7: Regional Priorities

The RFMP will prioritize projects to represent the main concerns of the region. With input from the stakeholders, identifying criteria will be developed to rank the respective improvements in the region and to develop plan recommendations. The ranking criteria will include risk reduction, multipurpose objectives, benefit-to-cost (b/c) ratios, and other identifying rationale to rank the respective improvements. The ranking criteria will be consistent with the priorities identified in the CVFPP.

2.4.8 Task 4.8: Regional Financial Plan

Financing is a unifying factor for all elements of the RFMP. It is not sufficient that identified solutions be technically feasible and relevant to flood risk reduction – they must also comply with a variety of criteria to qualify for different types of Federal and State funding sources. This section will list the potential sources of financing for the proposed solutions/projects (regional funding capacity) and a Regional Financial Plan for the region. The Regional Financial Plan will address long-term capital improvement investments, along with funding for flood emergency response operations and O&M of the region's flood management facilities. The RFMP team will coordinate the cost estimates with DWR to ensure that the financial plan is consistent with the plans being developed by other regions to allow statewide comparisons.

2.4.9 Task 4.9: Executive Summary and Plan Completion

The Executive Summary will succinctly summarize the goals and objectives of the regional planning effort, the regional planning process, and the region-specific flood system characteristics and challenges that drove identification of priority solutions. The Executive Summary will also present the outcome of the planning process, including recommended management actions/projects, financing, and other strategies for reducing regional flood risks. The future roles of the Stakeholders Working Group and the need for a group to reexamine the RFMP prior to the next update of the CVFPP will be acknowledged. This summary section will generally describe the flood risk characteristics of the region—its current versus planned future state (25-year planning window), flood hazards, proposed improvements, key partners, total plan cost, and significant strategies (e.g., for financing the proposed projects). The final RFMP will be delivered in both electronic and hard copy to the Agency, the stakeholders, and DWR.

Task 4 Deliverables:

1. Nine individual sections of the RFMP (electronically)
2. The Draft RFMP, complete with all sections (electronically)
3. The final RFMP with the updated Regional Atlas on DVD (electronically and up to 20 hard copies)

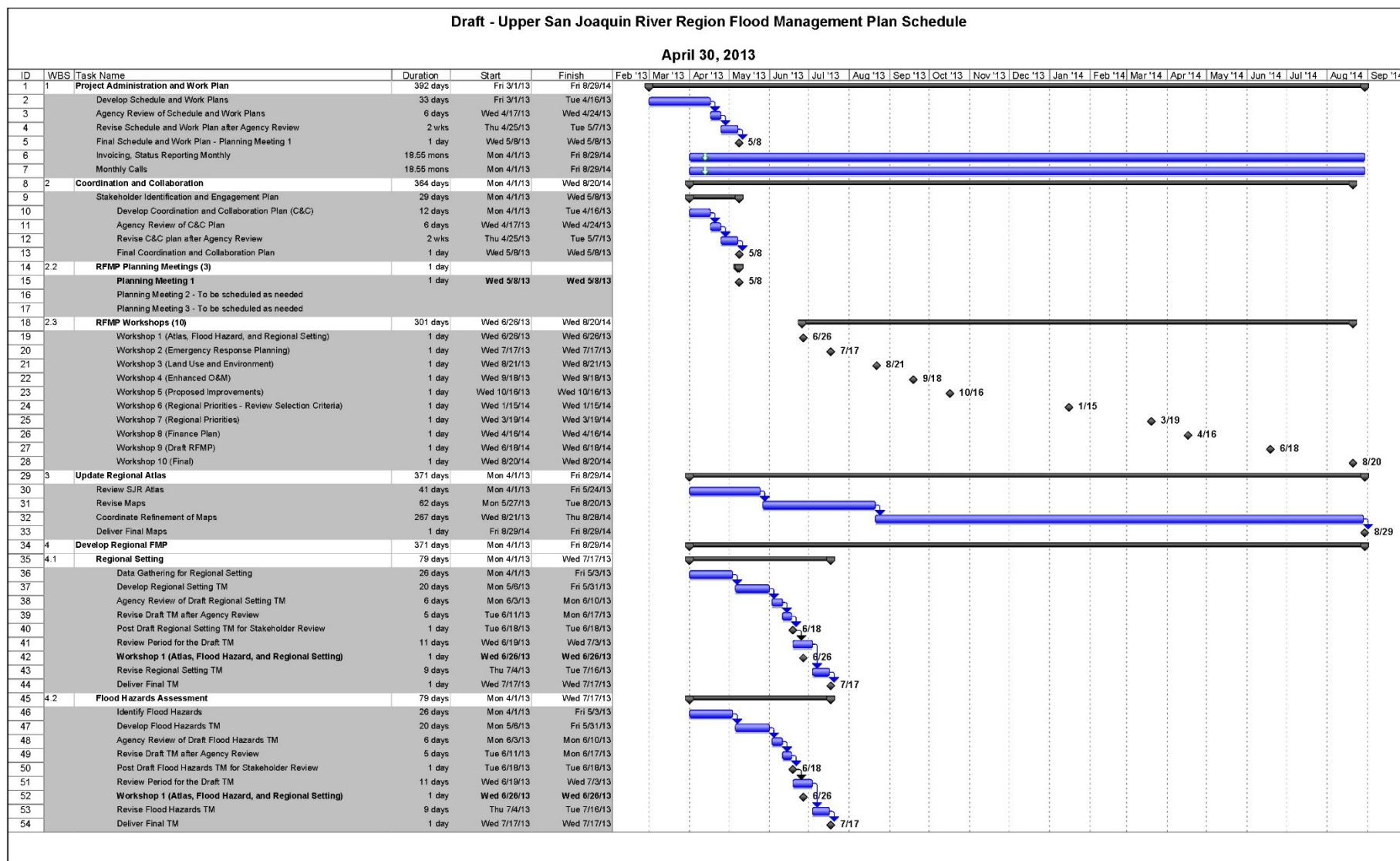
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Appendix A: Upper San Joaquin River Regional Flood Management Plan Schedule

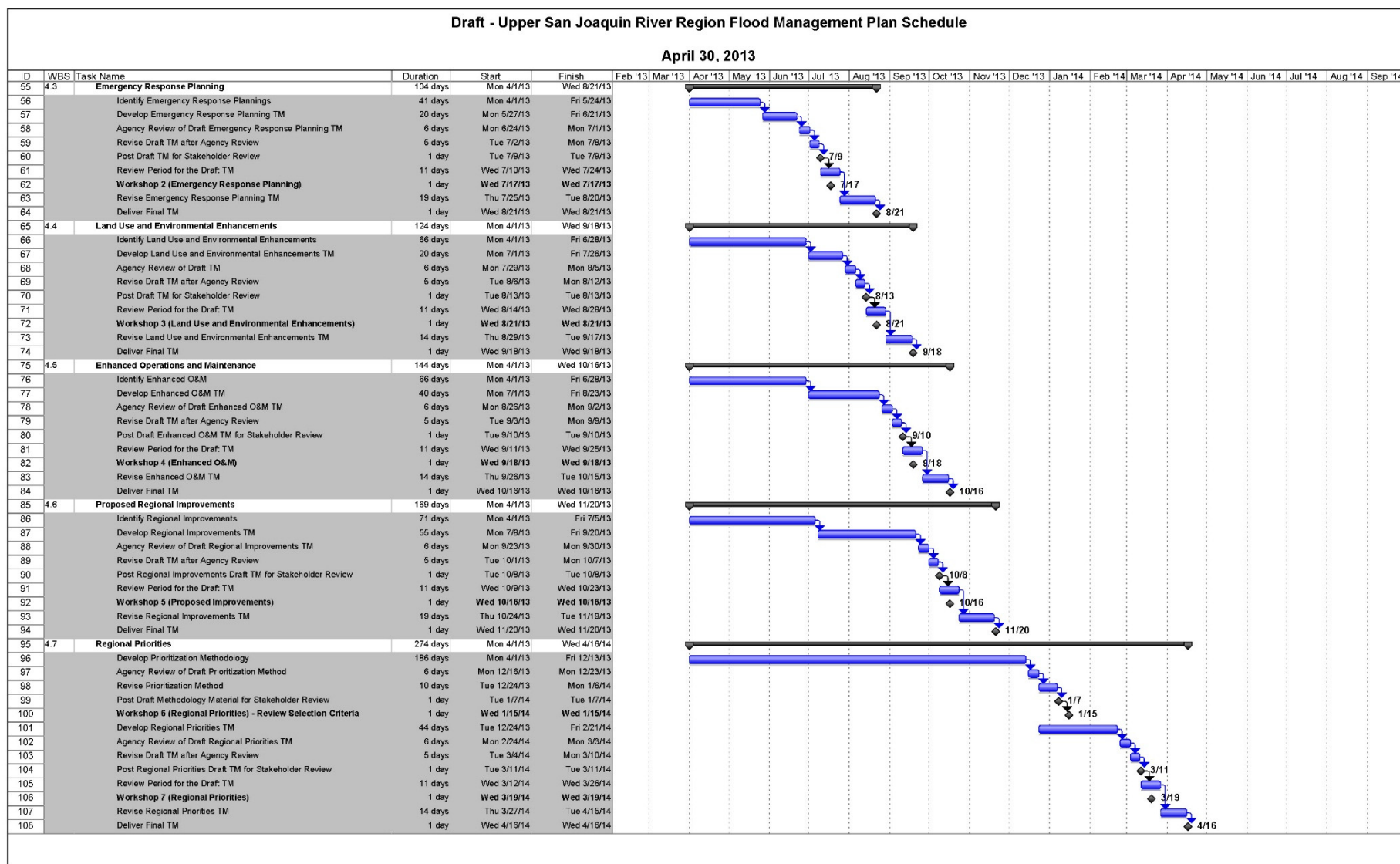
APPENDIX A: UPPER SAN JOAQUIN RIVER REGIONAL FLOOD MANAGEMENT PLAN SCHEDULE

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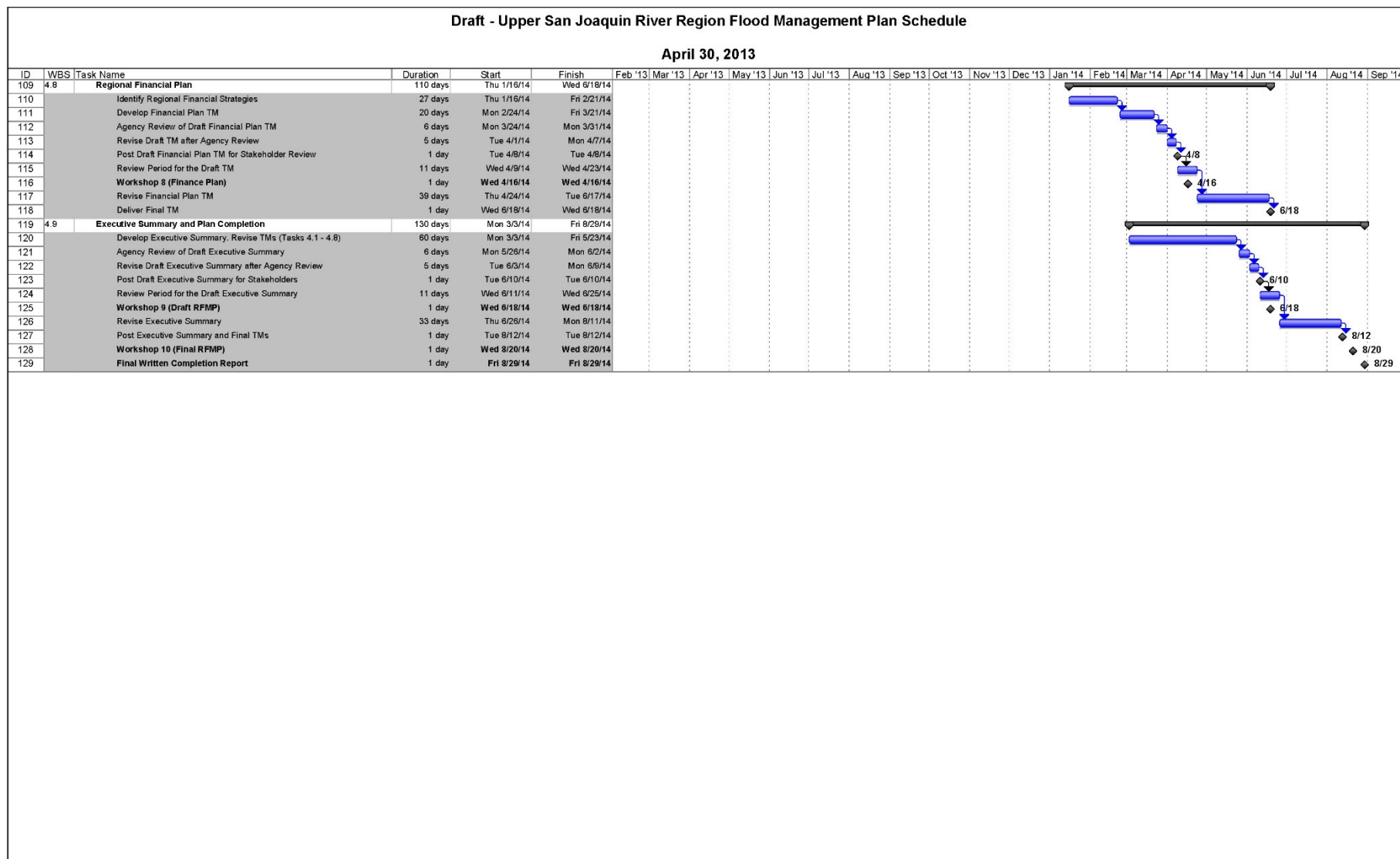
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