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SUBMITTAL TO THE FLOOD CONTROL AND WATER CONSERVATION DISTRICT BOARD OF SUPERVISORS COUNTY OF RIVERSIDE, STATE OF CALIFORNIA

FROM: General Manager-Chief Engineer

SUBMITTAL DATE:
October 6, 2015

SUBJECT: Public Hearing and Adopt Resolution No. F2015-06 for the San Jacinto Valley Master Drainage Plan, Project No. 4-0-00865, CEQA Responsible Agency Findings, District 3 [\$0]

RECOMMENDED MOTION: That the Board of Supervisors:

1. Find that pursuant to CEQA, the City of San Jacinto (City) is Lead Agency for the Project, and the District is a Responsible Agency;
2. Find that pursuant to CEQA, the City adequately addresses the impacts of the Project in their San Jacinto Valley Master Drainage Plan Final Programmatic Environmental Impact Report (EIR) (SCH #2009041007);

BACKGROUND:

Summary

See Page 2.

JMV:mcv
P8\166919

for 
 WARREN D. WILLIAMS
 General Manager-Chief Engineer


FINANCIAL DATA	Current Fiscal Year:	Next Fiscal Year:	Total Cost:	Ongoing Cost:	POLICY/CONSENT (per Exec. Office)
COST	\$ N/A	\$ N/A	\$ N/A	\$ N/A	Consent <input type="checkbox"/> Policy <input type="checkbox"/>
NET DISTRICT COST	\$ N/A	\$ N/A	\$ N/A	\$ N/A	
SOURCE OF FUNDS: N/A				Budget Adjustment: N/A	
				For Fiscal Year: N/A	

C.E.O. RECOMMENDATION:

APPROVE
 BY: 
 Steven C. Horn

County Executive Office Signature

MINUTES OF THE BOARD OF SUPERVISORS

FORM APPROVED COUNTY COUNSEL
BY:  JAMES E. BROWN
DATE

Departmental Concurrence

- A-30
- Positions Added
- 4/5 Vote
- Change Order

**SUBMITTAL TO THE FLOOD CONTROL AND WATER CONSERVATION DISTRICT
BOARD OF SUPERVISORS, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA**

FORM 11: Public Hearing and Adopt Resolution No. F2015-06 for the San Jacinto Valley Master Drainage Plan, Project No. 4-0-00865, CEQA Responsible Agency Findings, District 3 [\$0]

DATE: October 6, 2015

PAGE: Page 2 of 2

RECOMMENDED MOTION: (continued)

3. Adopt Resolution No. F2015-06, which considers the EIR certified by the City, makes Responsible Agency Findings, adopts the City's Mitigation Monitoring and Reporting Program, and prepares a Statement of Overriding Considerations pursuant to CEQA. The Resolution also rescinds the San Jacinto Area Master Drainage Plan and the Northwest Hemet Master Drainage Plan; approves the San Jacinto Valley Master Drainage Plan; and complies with Section 18 of the Riverside County Flood Control District Act;
4. Approve and authorize the District to proceed with the Project; and
5. Direct the Clerk of the Board to file the Notice of Determination with the County Clerk and also with the Governor's Office of Planning and Research within five days of project approval.

BACKGROUND:

Summary (continued)

The San Jacinto Valley Master Drainage Plan (Plan) encompasses portions of unincorporated Riverside County and portions of the Cities of San Jacinto and Hemet. The Plan is roughly bounded by the San Jacinto River to the north, Florida Avenue to the south, Meridian Street to the east, and Warren Road to the west. The Plan area includes the existing San Jacinto Master Drainage Plan (MDP) area, which was originally adopted in January 1982 and revised July 1990. The Plan also includes the Northwest Hemet MDP area, which was adopted in January 1985. Additionally, the Plan includes drainage facilities for areas located to the north and west of the San Jacinto and Northwest Hemet MDPs. If approved, the Plan will supersede the previously adopted San Jacinto MDP and Northwest Hemet MDP. A map of the project area is attached.

The City of San Jacinto, acting as Lead Agency pursuant to the California Environmental Quality Act (CEQA), approved the San Jacinto Valley Master Drainage Plan and certified a Final Programmatic Environmental Impact Report (EIR) dated October 2012, and determined that the Plan will have a significant effect on the environment. The District, acting as a Responsible Agency pursuant to CEQA, will consider and adopt the EIR, Findings and Mitigation Monitoring and Reporting Program prepared by the City of San Jacinto. The District prepared a Statement of Overriding Considerations for the potentially significant and unavoidable impacts.

Impact on Residents and Businesses

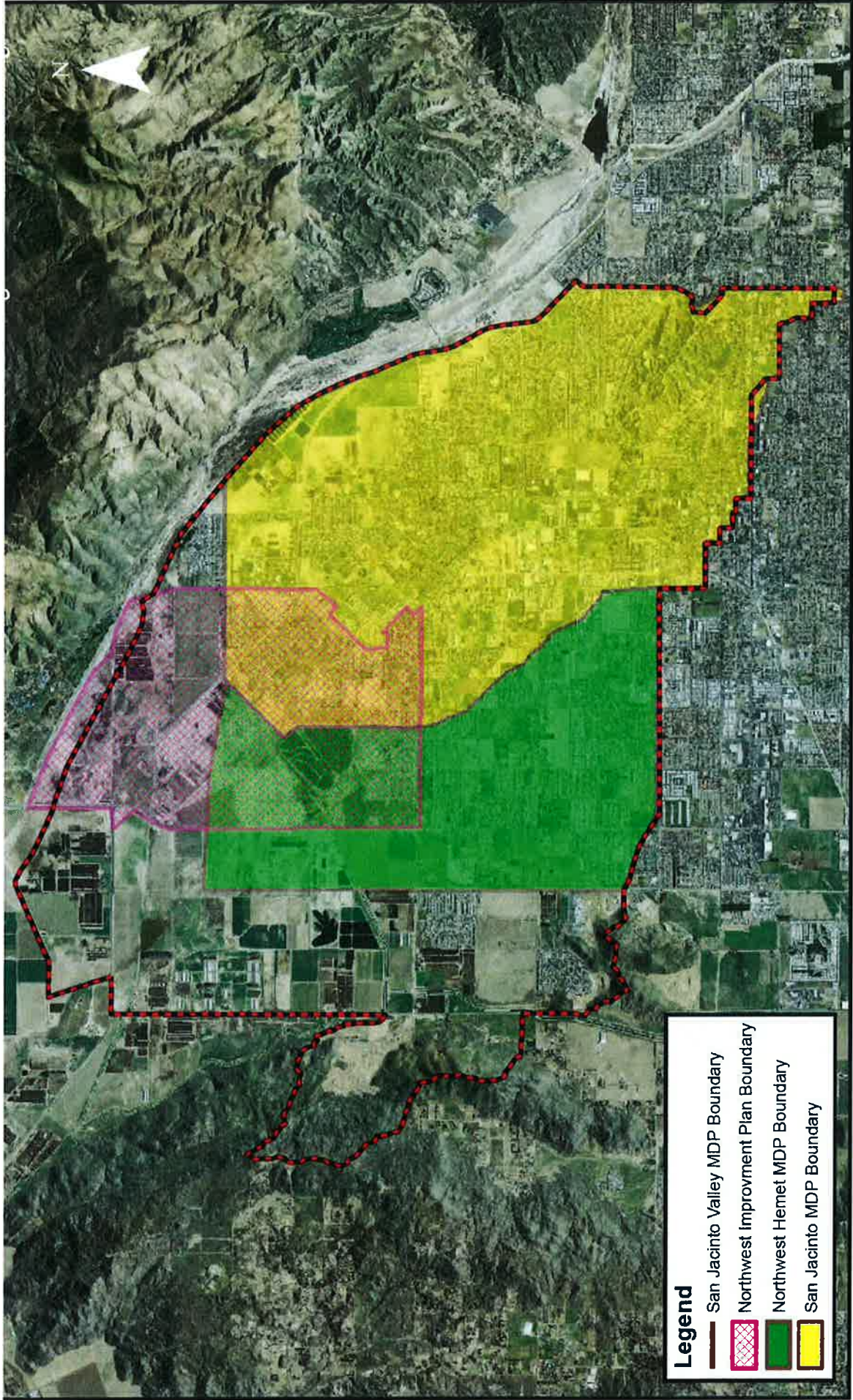
This project is funded by ad valorem property tax revenue and entails no new fees, taxes or bonded indebtedness.

ATTACHMENTS:

1. Resolution No. F2015-06
2. Map of the Project area
3. San Jacinto Valley MDP Report and Maps dated November 2012 (on CD) [Attachment "A"]
4. Final Programmatic EIR and related technical appendices for the SJV-MDP (on CD) [Attachment "C"]
5. City of San Jacinto Resolution No. 3454 (Certifying the EIR/Adopting Findings) (on CD) [Attachment "B"]
6. Mitigation Monitoring and Reporting Program (MMRP) (on CD) [Attachment "D"]
7. Notice of Determination
8. Authorization to Bill for Notice of Determination CDFW Filing Fees

RESOLUTION F2015-06

SAN JACINTO VALLEY MASTER DRAINAGE PLAN BOUNDARIES



BOARD OF SUPERVISORS

RIVERSIDE COUNTY FLOOD CONTROL
AND WATER CONSERVATION DISTRICT

RESOLUTION NO. F2015-06

CONSIDERING PRIOR FINAL ENVIRONMENTAL IMPACT REPORT, MAKING RESPONSIBLE AGENCY FINDINGS, ADOPTING A MITIGATION MONITORING PROGRAM, AND STATEMENT OF OVERRIDING CONSIDERATIONS PURSUANT TO THE CALIFORNIA ENVIRONMENTAL QUALITY ACT; RESCINDING THE SAN JACINTO AREA AND NORTHWEST HEMET MASTER DRAINAGE PLANS; APPROVING THE SAN JACINTO VALLEY MASTER DRAINAGE PLAN; AND COMPLYING WITH SECTION 18 OF THE RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT ACT

WHEREAS, on September 1, 2015 the Board of Supervisors of the Riverside County Flood Control and Water Conservation District (hereinafter referred to as the "Board") adopted Resolution No. F2015-05, giving notice of its intent to approve the San Jacinto Valley Master Drainage Plan (hereinafter referred to as the "Project" or the "SJV-MDP") located within the Riverside County Flood Control and Water Conservation District's (hereinafter referred to as the "District") Zone 4 and encompassing portions of the cities of San Jacinto and Hemet and unincorporated Riverside County, and giving further notice that the Project would be considered at a public hearing on October 6, 2015; and

WHEREAS, the Project proposes a drainage system of open channels, underground storm drains, and detention basins, as well as incorporation of some existing facilities; and

WHEREAS, the Project is bounded generally by the San Jacinto River to the north, Florida Avenue to the south, Meridian Street to the east, and Warren Road to the west; and

WHEREAS, the Project supersedes the previously adopted San Jacinto Area Master Drainage Plan (1982) and the previously adopted Northwest Hemet Master Drainage Plan (1985) (hereinafter referred to as the "Existing Plans"); and

WHEREAS, the Project would rescind and replace the Existing Plans with the San Jacinto Valley Master Drainage Plan; and

FORM APPROVED COUNTY COUNSEL
BY: ACG 8-5-15 DATE
AARON C. GETTIS

1 WHEREAS, the Project incorporates additional areas located to the north and west of the
2 Existing Plans; and

3 WHEREAS, the SJV-MDP Report and maps are attached herein as "Attachment A"; and

4 WHEREAS, the Project is located within the Plan Area of the Western Riverside
5 Multiple Species Habitat Conservation Plan ("WRMSHCP") and is subject to the requirements
6 of the WRMSHCP; and
7

8 WHEREAS, at the time of construction, all facilities within the SJV-MDP are subject to
9 the Implementing Agreement for the Western Riverside County Multiple Species Habitat
10 Conservation Plan/Natural Community Conservation Plan, in accordance with Riverside County
11 Ordinance No. 810.2, or the City of San Jacinto Ordinance No. 05-18, or the City of Hemet
12 Ordinance No. 1712, as applicable based on the facility location; and
13

14 WHEREAS, pursuant to the California Environmental Quality Act ("CEQA"), the City of
15 San Jacinto ("City") has assumed the role of Lead Agency and, with input from the District, has
16 certified a Final Programmatic Environmental Impact Report ("EIR") for the Project (State
17 Clearinghouse Number 2009041077), which is attached herein as Attachment "B"; and
18

19 WHEREAS, the City as Lead Agency determined that the Project would have potentially
20 significant and unavoidable impacts to agriculture, air quality, and population and housing, and
21 potentially significant and unavoidable cumulative impacts to agriculture and population and
22 housing; and

23 WHEREAS, on January 14, 2013, the City adopted Resolution No. 3454, which is
24 attached hereto as Attachment "C", certifying the EIR, and adopting findings, mitigation
25 measures and a statement of overriding considerations; and
26

27 WHEREAS, the City filed a Notice of Determination for the Project on January 18, 2013;
28 and

1 WHEREAS, the District has limited approval and implementing authority over the
2 Project and, therefore, pursuant to Section 15096 of the State CEQA Guidelines serves only as a
3 Responsible Agency for the Project; and

4 WHEREAS, pursuant to Section 15096 of the State CEQA Guidelines, the District,
5 acting as a Responsible Agency, considered the environmental effects of the Project as evaluated
6 in the prior EIR and determined the EIR to be adequate as certified by the City; and

7 WHEREAS, pursuant to Act 6642 of the State Legislature, Section 18 of the Riverside
8 County Flood Control and Water Conservation District Act (hereinafter referred to as the
9 "District Act"), requires that the District give public notice and conduct a public hearing prior to
10 undertaking construction of District facilities; and

11 WHEREAS, notice of the public hearing was properly made by publication and posting
12 as required by Section 18 of the District Act, and all persons desiring to be heard on the matter
13 are given the opportunity to appear and present testimony, both oral and written; and

14 WHEREAS, all other legal prerequisites to the adoption of this Resolution have occurred.

15 NOW, THEREFORE, BE IT RESOLVED, DETERMINED, AND ORDERED by the
16 Board of Supervisors of the Riverside County Flood Control and Water Conservation District
17 assembled in regular session on, October 6, 2015, in the meeting room of the Board of
18 Supervisors located on the 1st floor of the County Administrative Center, 4080 Lemon Street,
19 Riverside, California, based upon the evidence and testimony presented on the matter, both
20 written and oral, including the EIR as it relates to the Project, that:

21 **SECTION 1. CEQA Actions.**

- 22 (a) Consideration of the Prior EIR and Adoption of Findings Regarding CEQA
23 Compliance.

24 As the decision-making body for the District, and in the District's limited role as a
25
26
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1 Responsible Agency under CEQA, the Board has received, reviewed, and
2 considered the information contained in the EIR for the Project, any comment
3 letters, and other related documents. The Project is within the scope of the EIR
4 and the environmental effects of the Project have been adequately addressed in
5 the EIR. Based on this review, the Board finds that, as to those potential
6 environmental impacts within the District powers and authorities as Responsible
7 Agency, that the EIR for the Project contains a complete, objective, and accurate
8 reporting of those potential impacts as they relate to the Project under the
9 authority of the District as the Responsible Agency. This determination reflects
10 the independent judgment and analysis of the District and Board.
11

12 (b) Significant and Unavoidable Impacts.
13

14 The Board finds that the following potential environmental impacts associated
15 with the Project may not be fully mitigated despite the inclusion of all available
16 mitigation measures:

17 1. Agricultural Impacts:

18 a. Potential Impact: Conversion of Prime, Unique Farmland. The Project would
19 impact Prime Farmland, Unique Farmland, or Farmland of Statewide
20 Importance (collectively referred to as Important Farmland in the EIR).
21 Construction and operation of the required infrastructure would result in
22 permanent changes and direct and indirect losses of Important Farmland to
23 non-agricultural use, resulting in a potential significant and unavoidable
24 impact.
25

26 i. Mitigation: There are no feasible mitigation measures or alternatives to
27 reduce or eliminate the conversion of Important Farmland. This impact
28

1 will remain potentially significant and unavoidable.

2 b. Potential Impact: Conflict with Zoning for Agricultural Use/Williamson Act
3 Contract. The Project would conflict with existing zoning for agricultural use,
4 or a Williamson Act contract. While the amount of direct impacts to land
5 currently under existing Williamson Act contracts is limited, additional
6 indirect impacts could occur, resulting in a potential significant and
7 unavoidable impact.

8
9 i. Mitigation: There are no feasible mitigation measures or alternatives to
10 reduce or eliminate the conflict with a Williamson Act contract. This
11 impact will remain potentially significant and unavoidable.

12
13 c. Potential Impact: Conversion of Farmland to Non-Agricultural Use: The
14 Project would involve other changes in the existing environment, which, due
15 to their location or nature, could result in conversion of Farmland to non-
16 agricultural use. The Project would result in direct conversion of farmland to
17 non-agricultural uses. Further, the Project may contribute to future
18 development of the area, also contributing to indirect future agricultural
19 impacts. Therefore, a significant and unavoidable impact would potentially
20 occur.

21
22 i. Mitigation: There are no feasible mitigation measures or alternatives to
23 reduce or eliminate the conversion of farmland to non-agricultural use.
24 This impact will remain potentially significant and unavoidable.

25 2. Air Quality

26 a. Potential Impact: Violation of Air Quality Standard – Short-Term Impacts.
27 The Project's short-term impacts would violate an air quality standard or
28

1 contribute substantially to an existing or projected air quality violation. The
2 Project's short-term construction emissions will exceed the South Coast Air
3 Quality Management District ("SCAQMD") regional significance thresholds
4 for NOx, PM-10, and PM-2.5. Short-term construction will also exceed
5 applicable localized significance thresholds ("LST") for PM-10 and PM-2.5.
6 Even with mitigation, this impact will remain potentially significant and
7 unavoidable.
8

9 i. Mitigation: Implementation of the following mitigation measures
10 would reduce air quality impacts as they relate to a violation of air
11 quality standards. However, even with the incorporation of the
12 following mitigation, this impact will remain significant and
13 unavoidable. There are no additional feasible mitigation measures or
14 alternatives available to further reduce this potential impact.
15

16 (1) MM Air 1: During construction, ozone precursor emissions
17 from all vehicles and construction equipment shall be
18 controlled by maintaining equipment engines in good
19 condition and in proper tune per manufacturers'
20 specifications to the satisfaction of the jurisdiction in which
21 the construction is taking place, i.e., San Jacinto Public
22 Works Department, Hemet Public Works Department,
23 Riverside County Department of Building and Safety, or
24 RCFCWCD. Equipment maintenance records and
25 equipment design specification data sheets shall be kept on
26 site during construction. Compliance with this measure
27
28

1 shall be subject to periodic verification by the San Jacinto
2 Public Works Department, Hemet Public Works
3 Department, Riverside County Building and Safety
4 Department, or RCFCWCD.

5
6 (2) MM Air 2: Signs shall be posted stating that all vehicles are
7 prohibited from idling in excess of five minutes, both on
8 and off site.

9 (3) MM Air 3: Electricity from power poles shall be used
10 instead of temporary diesel- or gasoline-powered
11 generators to reduce the associated emissions.

12 (4) MM Air 4: To reduce construction vehicle (truck) and
13 equipment idling while waiting to enter/exit the site, the
14 contractor shall submit a traffic control plan that will
15 describe in detail safe detours to prevent traffic congestion
16 to the best of the Project's ability, and provide temporary
17 traffic control measures. To reduce traffic congestion, and
18 therefore NOx, the plan shall include, as necessary,
19 appropriate, and practicable the following: dedicated turn
20 lanes for movement of construction trucks and equipment
21 on and off site, scheduling of construction activities that
22 affect traffic flow on the arterial system to off-peak hour,
23 rerouting of construction trucks away from congested
24 streets or sensitive receptors, and/or signal synchronization
25 to improve traffic flow.
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1 b. Potential Impact: Sensitive Receptors – Short-Term Impacts. The Project's
2 short-term impacts would expose sensitive receptors to substantial pollutant
3 concentrations. The Project's short-term construction emissions will exceed
4 the SCAQMD regional significance thresholds for NOx, PM-10, and PM-2.5.
5 Short-term construction will also exceed applicable localized significance
6 thresholds (LST) for PM-10 and PM-2.5. Even with the incorporation of the
7 following mitigation, this impact will potentially remain significant and
8 unavoidable.
9

10 i. Mitigation: Implementation of mitigation measures would reduce air
11 quality impacts as they relate to sensitive receptors. However, even
12 with mitigation, this impact will remain significant and unavoidable.
13 There are no additional feasible mitigation measures or alternatives
14 available to further reduce this potential impact.
15

16 (1) MM Air 1 through MM Air 4.

17 3. Population and Housing

18 a. Potential Impact: Induce Substantial Population Growth. The Project will not
19 directly induce substantial population growth in the Project area because it
20 does not include the construction of new homes or businesses. However, the
21 Project may indirectly induce substantial population growth in the SJV-MDP
22 boundaries by providing flood control infrastructure, sized to protect the
23 Project area at full build out per the San Jacinto, Hemet, and Riverside County
24 General Plans. Therefore, a significant and unavoidable impact would
25 potentially occur.
26

27 i. Mitigation: There are no feasible mitigation measures or alternative for
28

1 the potential impact to population and housing. This impact will
2 remain potentially significant and unavoidable.

3 4. Potential Cumulative Impacts

4 a. Potential Cumulative Impact: Indirect Loss of Agricultural Land. The Project
5 will indirectly facilitate population growth and development which will
6 ultimately replace existing agricultural land with other land uses. Therefore,
7 the Project will indirectly contribute to a cumulative loss of agricultural land,
8 resulting in a potential significant and unavoidable cumulative impact.

9 i. Mitigation: There are no feasible mitigation measures or alternatives to
10 reduce or eliminate population growth nor reduce or eliminate the
11 conversion of farmland to non-agricultural use. This impact will
12 remain potentially cumulatively significant and unavoidable.

13 b. Potential Cumulative Impact: Induce Substantial Population Growth. The
14 Project may indirectly induce substantial population growth in the SJV-MDP
15 boundaries by providing flood control infrastructure, sized to protect the
16 Project area at full build out per the San Jacinto, Hemet, and Riverside County
17 General Plans. The impact is considered potentially cumulatively significant
18 and unavoidable.

19 i. Mitigation: There are no feasible mitigation measures or alternatives
20 for the potential impacts to population and housing. This impact will
21 remain potentially cumulatively significant and unavoidable.

22 (c) Adoption of Mitigation Monitoring and Reporting Program.

23 The Board hereby approves and adopts the Mitigation Monitoring and Reporting
24 Program as it relates to the Project which was prepared for the Project and
25
26
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1 approved by the Lead Agency, which is as Attachment "D" and incorporated
2 herein.

3 (d) CEQA Findings on Environmental Impacts.

4 In its limited role as a Responsible Agency under CEQA, the Board finds that
5 there are no feasible alternatives to the Project which would avoid or substantially
6 lessen this Project's potentially significant environmental impacts but still achieve
7 most of the Project's objectives. The Board further finds that the mitigation
8 measures imposed by the Lead Agency are sufficient to reduce all potentially
9 significant impacts to a level of less than significant, except as described in the
10 EIR and included in the Responsible Agency findings herein. As such, the Board
11 concurs with the environmental findings adopted by the Lead Agency, which are
12 attached hereto as Attachment "C," and, therefore, the Board adopts those
13 findings as its own and incorporates them herein.
14
15

16 **SECTION 2. Statement of Overriding Considerations**

17 BE IT FURTHER RESOLVED by the Board that it has balanced the benefits of the
18 Project against the potentially unavoidable adverse environmental effects thereof. The Board
19 finds that the benefits of the Project outweigh the potential unavoidable effects described herein,
20 and is supported by the environmental findings attached hereto as Attachment "C" and
21 incorporated herein. Therefore, the Board finds the adverse environmental effects of the Project
22 are "acceptable" in light of the following benefits:
23

24 1. Facts Supporting Finding:

- 25 a. The Project will simplify and improve master drainage planning in the area by
26 combining and connecting several smaller master drainage plans into one
27 comprehensive master drainage plan.
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- b. The Project area has experienced significant flooding in the past. As the area continues to urbanize, flood damages are expected to increase. A comprehensive master planned drainage system is needed to safely convey stormwater runoff throughout the area with the least interruption to public services. In conjunction with ultimate street improvements, the Project will provide 100-year flood protection to existing and planned development, including infrastructure and public roads, thereby providing numerous benefits to public health and safety.
- c. The Project will protect both existing and future development by guiding the appropriate size and approximate location of new drainage facilities.
- d. Public costs associated with recurring flood damages will be substantially reduced by the construction of drainage facilities included in the SJV-MDP.
- e. The Project will provide some groundwater recharge within the basins.
- f. The Project will minimize the amount of agricultural waste that could enter the San Jacinto River.
- g. The Project is the most feasible and least costly of the alternatives studied.
- h. The Project lends itself to staged construction as funds become available.

SECTION 3. Approval of the Project

NOW, THEREFORE, BE IT RESOLVED, DETERMINED AND ORDERED the Board hereby rescinds the San Jacinto Area Master Drainage Plan and the Northwest Hemet Master Drainage Plan; and in its limited role as a Responsible Agency, approves the San Jacinto Valley Master Drainage Plan Project as required under Section 15096 of the State CEQA Guidelines, and proceeds with the Project in accordance with Section 18 of the District Act.

1 **SECTION 4. Notice of Determination**

2 BE IT FURTHER RESOLVED, DETERMINED AND ORDERED that the Board hereby
3 directs staff to file a Notice of Determination with the Riverside County Clerk and also with the
4 Governor's Office of Planning and Research within five (5) working days of the approval of the
5 Project.
6

7 **SECTION 5. Custodian of Records**

8 BE IT FURTHER RESOLVED, DETERMINED AND ORDERED that the documents
9 and materials that constitute the record of proceedings on which these findings are based are
10 located at the offices of the Clerk of the Board of Supervisors for the District at 4080 Lemon St.,
11 1st Floor, Riverside, CA 92501 and the District Office, 1995 Market Street, Riverside, CA 92501.
12

13 **SECTION 6. Execution of Resolution**

14 BE IT FURTHER RESOLVED, DETERMINED AND ORDERED that the Clerk of the
15 Board shall sign this Resolution to attest and certify to the passage and adoption thereof.
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Notice of Determination

To: Office of Planning and Research

For U.S. Mail:

P.O. Box 3044

Sacramento, CA 95812-3044

Street Address:

1400 Tenth Street

Sacramento, CA 95814

From: Riverside County Flood Control

1995 Market Street

Riverside, CA 92501

Contact: Kris Flanigan

Phone: 951.955.8581

To: County Clerk

County of Riverside

2724 Gateway Drive

Riverside, CA 92507

Lead Agency: City of San Jacinto

595 S. San Jacinto Avenue

San Jacinto, CA 92583

Contact: Habib Motlagh

Phone: 951-943-6504

SUBJECT: Filing of Notice of Determination in compliance with Section 21152 of the Public Resources Code

State Clearinghouse Number: 2009041077

Project Title: San Jacinto Valley Master Drainage Plan (SJV-MDP)

Project Location: The Project is located in Riverside County and encompasses portions of unincorporated Riverside County and portions of the cities of San Jacinto and Hemet. The Plan is roughly bounded by the San Jacinto River to the north, Florida Avenue to the south, Meridian Street to the east, and Warren Road to the west. The Project can be found at latitude/longitude 33° 46' 44"/116° 59' 24" or within Township 5 South, Range 1 West San Bernardino Base and Meridian.

Project Description: The Project requires rescinding the 1982 San Jacinto Area Master Drainage Plan and the 1985 Northwest Hemet Master Drainage Plan. The Project would supersede these two previously adopted existing plans; and would incorporate additional areas located to the north and west of the existing plans. The Project consists of a conceptual drainage plan used to guide future construction drainage facilities comprised of open channels, underground storm drains and detention basins.

Determination: This is to advise that the **Riverside County Flood Control and Water Conservation District**, as **Responsible Agency**, approved the SJV-MDP on **October 6, 2015** and made the following determinations regarding the Project:

1. The City of San Jacinto (City) is Lead Agency on the Project.
2. An Environmental Impact Report was prepared for this project pursuant to the provisions of CEQA.
3. The District considered the City's EIR, pursuant to the provisions of CEQA.
4. The Project will have a significant effects on the environment.
5. Mitigation measures were made a condition of the approval of the project.
6. A mitigation reporting or monitoring plan was adopted for this project.
7. A statement of Overriding Considerations was adopted for this project.
8. Findings were made pursuant to the provisions of CEQA.

This is to certify that the final EIR with comments and responses and record of project approval is available to the General Public at: *The Office of the Clerk to the Board, County Administrative Center, 4080 Lemon Street, Riverside, CA 92501.*

Signature (Public Agency)

Title

Date

Date received for filing at OPR

Notice of Determination

To: Office of Planning and Research

For U.S. Mail:

P.O. Box 3044

Sacramento, CA 95812-3044

Street Address:

1400 Tenth Street

Sacramento, CA 95814

From: Riverside County Flood Control

1995 Market Street

Riverside, CA 92501

Contact: Kris Flanigan

Phone: 951.955.8581

To: County Clerk

County of Riverside

2724 Gateway Drive

Riverside, CA 92507

Lead Agency: City of San Jacinto

595 S. San Jacinto Avenue

San Jacinto, CA 92583

Contact: Habib Motlagh

Phone: 951-943-6504

SUBJECT: Filing of Notice of Determination in compliance with Section 21152 of the Public Resources Code

State Clearinghouse Number: 2009041077

Project Title: San Jacinto Valley Master Drainage Plan (SJV-MDP)

Project Location: The Project is located in Riverside County and encompasses portions of unincorporated Riverside County and portions of the cities of San Jacinto and Hemet. The Plan is roughly bounded by the San Jacinto River to the north, Florida Avenue to the south, Meridian Street to the east, and Warren Road to the west. The Project can be found at latitude/longitude 33° 46' 44"/116° 59' 24" or within Township 5 South, Range 1 West San Bernardino Base and Meridian.

Project Description: The Project requires rescinding the 1982 San Jacinto Area Master Drainage Plan and the 1985 Northwest Hemet Master Drainage Plan. The Project would supersede these two previously adopted existing plans; and would incorporate additional areas located to the north and west of the existing plans. The Project consists of a conceptual drainage plan used to guide future construction drainage facilities comprised of open channels, underground storm drains and detention basins.

Determination: This is to advise that the **Riverside County Flood Control and Water Conservation District**, as **Responsible Agency**, approved the SJV-MDP on **October 6, 2015** and made the following determinations regarding the Project:

1. The City of San Jacinto (City) is Lead Agency on the Project.
2. An Environmental Impact Report was prepared for this project pursuant to the provisions of CEQA.
3. The District considered the City's EIR, pursuant to the provisions of CEQA.
4. The Project will have a significant effects on the environment.
5. Mitigation measures were made a condition of the approval of the project.
6. A mitigation reporting or monitoring plan was adopted for this project.
7. A statement of Overriding Considerations was adopted for this project.
8. Findings were made pursuant to the provisions of CEQA.

This is to certify that the final EIR with comments and responses and record of project approval is available to the General Public at: *The Office of the Clerk to the Board, County Administrative Center, 4080 Lemon Street, Riverside, CA 92501.*

Signature (Public Agency)

Title

Date

Date received for filing at OPR

RIVERSIDE COUNTY FLOOD CONTROL
AND WATER CONSERVATION DISTRICT
RIVERSIDE, CALIFORNIA

MASTER DRAINAGE PLAN
FOR THE
SAN JACINTO VALLEY
ZONE 4

NOVEMBER 2012

WARREN D. WILLIAMS
GENERAL MANAGER-CHIEF ENGINEER

**MASTER DRAINAGE PLAN
FOR THE
SAN JACINTO VALLEY**

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EXHIBITS

Exhibit 1-1 – San Jacinto Valley MDP Boundary

Exhibit 1-2 – San Jacinto Valley MDP Subareas

Exhibit 1-3 – San Jacinto Valley MDP Existing FEMA Floodplain

Exhibit 4-1 – San Jacinto Valley Rainfall

APPENDIX A

Eastern Municipal Water District Resolution No. 5073

MAP

Master Drainage Plan Maps Inside Back Cover

SECTION I – EXECUTIVE SUMMARY

OVERVIEW

The San Jacinto Valley Master Drainage Plan (Plan) encompasses portions of unincorporated Riverside County and portions of the Cities of San Jacinto and Hemet. The Plan is roughly bounded by the San Jacinto River to the north, Florida Avenue to the south, Meridian Street to the east, and Warren Road to the west.

The Plan area includes all of the existing San Jacinto Master Drainage Plan (MDP) area, which was originally adopted in January 1982 and revised July 1990. The Plan also includes the Northwest Hemet MDP area, which was adopted in January 1985. Additionally, the Plan encompasses the vast majority of San Jacinto's Northwest Improvement Plan which was adopted in May 1991. Finally, the Plan includes drainage facilities for areas located to the north and west of the San Jacinto and Northwest Hemet MDPs. Exhibit 1-1 shows the boundaries for the Plan, the Northwest Hemet MDP, the San Jacinto MDP, and the Northwest Improvement Plan.

The Plan was studied in three subareas, the "North Area", the "West Area" and the "City Area". The "North Area" includes the area north of Ramona Expressway and west of State Street. The "West Area" includes the area south of Ramona Expressway and west of Sanderson Avenue. The remainder is the "City Area". Exhibit 1-2 shows the boundaries for the subareas within the Plan's drainage boundary.

Generally speaking, the North and West Areas cover areas that were not previously included in either the San Jacinto Area MDP or the Northwest Hemet MDP. These areas had previously been considered as agricultural lands but, due to changes in local land-use policies, are now considered as single-family residential and commercial land use areas. A drainage plan needed to be developed for the North and West Areas. At the same time, revisions and updates were necessary for the existing Northwest Hemet and San Jacinto MDPs. Rather than creating a new MDP and separately updating the San Jacinto and Northwest Hemet MDPs, it was decided to combine all three areas into one comprehensive MDP. Therefore, upon adoption, the Plan will supersede the Northwest Hemet and San Jacinto MDPs. The Plan will also supersede the Master Drainage Plan element of the Northwest Improvement Plan.

The San Jacinto River travels along the northerly part of the valley and conveys substantial stormwater runoff from regional precipitation events. Historically, the San Jacinto Valley has experienced substantial flooding from the San Jacinto River. To alleviate the flood risk, the United States Army Corps of Engineers constructed a levee along the southerly edge of the San Jacinto River from the Bautista Creek Channel downstream to approximately the intersection of Alessandro Avenue and the Ramona Expressway (near the westerly side of the Eastern Municipal Water District (EMWD) Recharge Ponds). The San Jacinto River Levee protects much of the developed area of San Jacinto from regional San Jacinto River flooding. Downstream of the levee, an earthen berm exists along the southerly "bank" of the San Jacinto River. While this berm contains runoff from minor storm events, it has neither the capacity nor the structural integrity to contain moderate to major flood flows. Accordingly, much of the northerly area within the City of San Jacinto is designated as a Special Flood Hazard Area (SFHA) on the currently effective Flood Insurance (FIRM) panel (see Figure 1-3).

To reduce the risk of regional San Jacinto River flooding downstream (northerly) of the existing San Jacinto River Levee, the City of San Jacinto and the District are jointly planning the "San Jacinto River Stage IV Levee" project. This new levee segment begins at the northerly termination of the

existing San Jacinto levee and runs in a northerly direction past Sanderson Avenue as depicted in Figure 1-3. Once constructed, the Stage IV Levee project will reduce the threat of regional flooding downstream of the existing San Jacinto River Levee; however, portions of the "North Area" and "West Area" would still be subject to local flooding. The proposed construction of MDP facilities in the "North Area" and "West Area" will address the local flooding and drainage in these areas.

PURPOSE

The purpose of this report is to identify an integrated network of drainage facilities that will alleviate both known and anticipated drainage problems within the San Jacinto Valley area. The Plan presented herein provides an effective and economical approach to providing flood protection and drainage to the area and may be used to guide construction scheduling of the principal drainage facilities. The Plan will also serve as a guide for locating and sizing local critical drainage facilities necessary to support orderly development within the area.

Readers of this report should bear in mind that the drainage network described herein is conceptual in nature. Simply stated, the Plan provides a conceptual solution that addresses drainage problems within the San Jacinto Valley area based on various engineering, environmental, and economic considerations. By no means does the Plan represent the only feasible solution.

The alignment and location of the facilities proposed in this Master Drainage Plan are general. Precise facility locations will be dictated by conditions and other factors existing at the time of design. Similarly, the facility sizing information shown on the enclosed map is preliminary. More detailed analysis performed at the design stage will determine final facility sizing.

FACILITY SIZING

The storm drain facilities included in the Plan are sized for either the 10-year or 100-year (recurrence interval) storm event. Nearly all facilities in the North and West Areas are 100-year facilities. The MDP map exhibit indicates whether a particular facility is sized for the 10-year or 100-year storm event.

SCOPE

The area covered by this Plan consists of approximately 27.4 square miles, ranging from flat valley terrain to foothills with steep slopes. Tasks involved in the development of the Plan include:

1. Determination of the points of concentration and quantity of storm runoff at various locations.
2. Determination of the location and size of proposed drainage facilities.
3. Investigation of alternative routes and conveyance methods as a basis for selecting the most economical, environmental, and soundly engineered plan.
4. Preparation of a drainage facility map.
5. Preparation of preliminary facility plan and profile sheets.
6. Preparation of facility cost estimates.

ALTERNATIVES/REFINEMENTS

Because the North and West Areas had not been previously included in an MDP, the development of this Plan involved an extensive analysis of alternative drainage networks for these two areas. Various facility types and alignments were analyzed. The engineering feasibility, economic cost, and environmental impact of the facilities were all considered when analyzing each alternative. A more detailed discussion of the alternatives for the North and West Areas can be found in Section V of this report.

The San Jacinto and Northwest Hemet MDPs had previously established proposed drainage facilities for the City Area. Therefore, extensive alternatives analysis was not necessary within the City Area. Nevertheless, some modifications and refinements to the San Jacinto and Northwest Hemet MDPs were made to accommodate existing development and address existing drainage concerns.

NAMING CONVENTION

Due to the consolidation of the San Jacinto and Northwest Hemet MDPs, there were instances where certain facility names would be duplicated under the new MDP. To resolve this issue, all San Jacinto MDP facility names will remain the same, with the exception that the facility name will be preceded by San Jacinto Valley MDP instead of San Jacinto MDP. All Northwest Hemet MDP facilities will also be preceded by San Jacinto Valley MDP, but in addition will be preceded by an "N" for Northwest Hemet. For example, Northwest Hemet MDP Line D is now named San Jacinto Valley MDP N Line D, while San Jacinto MDP Line D is now to be called San Jacinto Valley MDP Line D.

COSTS

Cost estimates for the San Jacinto Valley MDP facilities were prepared using Riverside County Flood Control and Water Conservation District's 2011 Planning Cost Worksheets. The estimated cost for the construction of the MDP facilities presented in this report is shown in Table 8.1.

RECOMMENDATIONS

It is recommended that:

1. The Riverside County Flood Control and Water Conservation District's Board of Supervisors, the City of Hemet and the City of San Jacinto each adopt the San Jacinto Valley Master Drainage Plan, as set forth herein.
2. The San Jacinto Valley Master Drainage Plan, as set forth herein, be used as a guide for all future developments within the study area and that such developments be required to conform to the Plan insofar as possible.
3. The rights-of-way necessary for construction of the San Jacinto Valley Master Drainage Plan facilities be protected from encroachment.

SECTION II – DATA COLLECTION EFFORTS

Several sources of data were used to prepare the San Jacinto Valley Master Drainage Plan. A description of the data collection efforts is listed below:

Topography – Topography and planimetric data was obtained from the Riverside County Flood Control and Water Conservation District. The four foot contour interval topography is from the District's Orthophoto Topography maps. The coordinate system for the topography is the North American Datum 1983 State Plane California VI horizontal projection. The topography elevation is based on the North American Vertical Datum of 1929.

San Jacinto MDP - Backup information consisting of hydrology work maps, hydrology and hydraulic calculations, cost estimates, MDP Plan and Profile Drawings, and the MDP report were obtained from the District for the San Jacinto MDP. The San Jacinto MDP was originally adopted in January 1982 and was revised July 1990.

Northwest Hemet MDP - Backup information consisting of hydrology work maps, hydrology and hydraulic calculations, cost estimates, MDP Plan and Profile Drawings, and the MDP report were obtained from the District. The Northwest Hemet MDP was originally adopted in January 1985.

Northwest Improvement Plan – A copy of the City of San Jacinto Northwest Improvement Plan prepared by NBS Lowry was provided by the City of San Jacinto. This 1991 report included circulation elements and storm drain alignments previously contemplated in the undeveloped northwest portion of the City.

Rainfall Data – There are three sets of Rainfall Data utilized in this study. Two versions of NOAA 2 are used for analyzing areas tributary to existing facilities proposed in the San Jacinto and Northwest Hemet MDPs. NOAA-14 rainfall values were used for analyzing areas tributary to new facilities. See Section IV for additional information.

Soils Data – Two sources of Soils Data were used in preparation of the Plan. The SCS Hydrologic Soils Group Maps in the Districts' Hydrology Manual were used for hydrology calculations for all facilities upstream of MDP facilities that have been constructed. NRCS Soil Survey Geographic (SSURGO) soil information was used to size all new or revised facilities in the Plan.

Land Use - Certain facilities within the current Plan are carryovers from the District's San Jacinto and Northwest Hemet MDPs. Specifically, the facilities include San Jacinto MDP Lines A, A-1, A-2, A-3, B, B-1, C, C-4, C-5, D, D-3, D-4, E-1, E-2, E-2A, E-3, H, H-1, J, J-1 and J-2, and within the Northwest Hemet MDP, Lines B, B-2, B-2, B-3, B-4 and B-5. The hydrology calculations for the San Jacinto MDP were based on "The Hemet-San Jacinto Area General Plan" and the calculations for the Northwest Hemet MDP are based on the Riverside County "Comprehensive General Plan (1984)". The calculations for all other facilities within the Plan are based on the General Plans for the City of San Jacinto (2006), the City of Hemet (2006), and the County of Riverside (2003). Ultimate land at build out use was assumed for all hydrology calculations.

Circulation Elements – The City of San Jacinto provided copies of proposed circulation elements for the City. Additionally, the City provided the "preferred alignments" of Highway 79 and the Mid County Parkway.

Existing Drainage Facilities - Copies of all available construction drawings for existing MDP and other drainage facilities were obtained from the City of San Jacinto and the District. Existing MDP facilities are discussed in more detail in Section III of this report.

MWD Utilities – The Metropolitan Water District of Southern California (MWD) has several large facilities that traverse the San Jacinto Valley. MWD provided copies of the "As-Built" improvement plans for the facilities in the Valley. Additionally, RBF Consulting provided pothole data of MWD's Colorado River Aqueduct at the Line Z crossing location.

Site Specific Hydrology Reports - The following site specific hydrology reports were obtained as backup to the San Jacinto Valley MDP:

- **The Cove @ San Jacinto (Tracts 30033, 30034, 30035, 30036 & 30084) Detention Basin Design Report Synthetic Unit Hydrograph – Prepared by SB&O, Inc. – March 7, 2004 – Stage/Storage – Outlet/Rating curves for the "Cove" detention basins were obtained from this report.**
- **Hydraulic Analysis of Existing Flood Control Systems in Rancho San Jacinto – Prepared by Engineering Resources of Southern California, Inc. – August 20, 2002**
- **Hydrology Report for Tract 29917 – Prepared by Engineering Resources of Southern California, Inc. – November 2003**
- **Preliminary Hydrology Analysis for Tentative Tract 30598 – Prepared by Hunsaker & Associates – December 8, 2003**
- **Drainage Study for Lyon Avenue Detention Basin – Prepared by Albert A. Webb Associates – May 2006**
- **Offsite Hydrology and Hydraulic Calculations for Tracts 31037, -1, -2 & -3 - Prepared by CSL Engineering, Inc. - March 2004**
- **Hydrology Analysis for Western Village Master Drainage Plan – Line J – Prepared by Stantec Consulting, Inc. – October 2008**

Planning and CEQA Document - The following site specific planning reports and CEQA Documents were obtained as backup to the San Jacinto Valley MDP:

- **Draft Environmental Impact Report – Villages of San Jacinto - Prepared by Dudek – April 2006**
- **Esplanade Draft Specific Plan Report - Prepared by AEI CASC Engineering – September 2005**
- **Preliminary Draft No. 3 – Proposed Mitigated Negative Declaration For Line E Amendment to the Northwest Hemet Master Drainage Plan and the Northwest Improvement Plan - Prepared by PZL, Inc.– August 2007**

SECTION III – EXISTING CONDITIONS

CURRENT DRAINAGE PATTERNS

The City of San Jacinto is impacted by both regional and local flooding. The San Jacinto River travels along the northerly part of the valley and conveys substantial stormwater runoff from regional precipitation events. Historically, the San Jacinto Valley has experienced substantial flooding from the San Jacinto River. To alleviate the flood risk, the United States Army Corps of Engineers constructed a levee along the southerly edge of the San Jacinto River from the Bautista Creek Channel downstream to approximately the intersection of Alessandro Avenue and the Ramona Expressway (near the westerly side of the EMWD Recharge Ponds). The San Jacinto River Levee protects much of the developed area of San Jacinto from regional San Jacinto River flooding. Downstream of the levee, an earthen berm exists along the southerly "bank" of the San Jacinto River. While this berm contains runoff from minor storm events, it has neither the capacity nor the structural integrity to contain moderate to major flood flows. Accordingly, much of the northerly area within the City of San Jacinto is designated as a Special Flood Hazard Area (SFHA) on the currently effective Flood Insurance (FIRM) panel (see Figure 1-3).

To reduce the risk of regional San Jacinto River flooding downstream (northerly) of the existing San Jacinto River Levee, the City of San Jacinto and the District are jointly planning the "San Jacinto River Stage IV Levee" project. This new levee segment begins at the northerly termination of the existing San Jacinto Levee and runs in a northerly direction past Sanderson Avenue. Once constructed, the Stage IV Levee project will reduce the threat of regional flooding downstream of the existing San Jacinto River Levee; however, portions of the "North Area" and "West Area" would still be subject to local flooding. The proposed construction of MDP facilities in the "North Area" and "West Area" will address the local flooding and drainage in these areas.

Local runoff travels from the southeasterly side of the valley to the northwesterly side of the valley. In general, flows begin in the northerly portion of the City of Hemet and flow in a northwesterly direction through the City of San Jacinto toward the San Jacinto River. Much of the drainage in the southeasterly portion of San Jacinto is conveyed by existing MDP facilities. San Jacinto MDP Lines C and D convey runoff to the Buena Vista Detention Basin. Outflows from the Buena Vista Detention Basin are conveyed by San Jacinto MDP Line E to the San Jacinto Reservoir which is owned and operated by Eastern Municipal Water District¹. Outflows from the San Jacinto Reservoir travel in a northwesterly direction toward the San Jacinto River. Exhibit 1-3 shows the existing FEMA Special Flood Hazard Area that impacts much of the North area and portions of the West areas.

¹ EMWD Resolution R-5073 5-23-2012

EXISTING DRAINAGE FACILITIES

The following existing drainage facilities are located within the Plan and are shown as existing facilities on the MDP exhibits:

Facility Name	Drawing No.	Maintenance
• San Jacinto Reservoir	--	EMWD
• Buena Vista Retention Basin	4-436	District
• Parkhill Retention Basin	4-265, 4-270	District
• Tahquitz High School Basins	--	Non-District
• San Jacinto MDP Line E	4-708	District
• San Jacinto MDP Line D	4-535, 4-551	District

CONSTRAINTS

The following constraints were considered in the development of the San Jacinto Valley Master Drainage Plan:

- **MWD's Colorado River Aqueduct** - The Colorado River Aqueduct is a major MWD facility that traverses the San Jacinto Valley in an east/west direction. The Colorado River Aqueduct is relatively large in diameter and has relatively shallow cover. The large diameter of the Colorado River Aqueduct makes vertical adjustment (i.e., relocation) of the aqueduct economically unfeasible.
- **MWD's San Jacinto Pipeline and Casa Loma Siphon** – The San Jacinto Pipeline and the Casa Loma Siphon are also major MWD facilities. They traverse the San Jacinto Valley in a north/south direction. As with the Colorado River Aqueduct, the San Jacinto Pipeline and the Casa Loma Siphon both are relatively large pipes with relatively shallow cover.
- **Eastern Municipal Water District's Hemet/San Jacinto Regional Water Reclamation Facility** – The alignment of the proposed Northwest Hemet MDP Line D would bisect EMWD's existing water reclamation facility. This master plan realigns Northwest Hemet MDP Line D, (now named "San Jacinto Valley MDP N Line D"), around the EMWD Plant.
- **Interim Development without San Jacinto River Stage IV Levee** – Several MDP lines will not fully function prior to the construction of the proposed San Jacinto River Stage IV Levee. Line E (downstream of Sanderson Avenue), Line V, Line H, Line 1 Line 2, Line 3, Line 4, Line 5, Line 6 and Lateral 4-A are all dependent upon the Levee. Should these facilities be constructed prior to the construction of the Stage IV Levee, an analysis to determine the facilities' level of functionality will need to be undertaken.
- **San Jacinto Reservoir** – As part of this study, the capacity, flow attenuation, and spillway location of EMWD's San Jacinto Reservoir were determined. The reservoir impacts the location and size of Line E downstream of the reservoir as well as Line Z.
- **San Jacinto River – Hydraulic Impact** - Several MDP facilities outlet into the San Jacinto River through the proposed San Jacinto River Stage IV Levee. The backwater effects caused by the connection to the river impact the upstream design of the proposed drainage facilities. These impacts have been accounted for in the MDP design.

- **Approved Tentative Tract Maps** – MDP facility alignment considered Tentative Maps previously approved by the City. MDP facilities avoided dividing parcels located within the proposed subdivisions.
- **Future Alignments: Highway 79 and Mid-County Parkway** – The proposed alignments for Highway 79 and Mid-County Parkway were taken into account. MDP facilities were designed such that they did not significantly conflict with or preclude the City adopted alignments for Highway 79 and the Mid-County Parkway.

SECTION IV – HYDROLOGY

METHODOLOGY

The hydrology for the Plan was developed using two different methods: the Modified Rational Method and the Synthetic Unit Hydrograph Method. The Modified Rational Method was used to determine the peak discharges generated from smaller watersheds (generally less than 300 to 500 acres in size). The Synthetic Unit Hydrograph Method was used for larger watershed areas to generate the peak discharge rates for sizing major drainage facilities and to perform routing calculations for the proposed detention basins. Methodology and supportive data for the rational and synthetic hydrology may be found in the "Riverside County Flood Control and Water Conservation District Hydrology Manual" (April 1978).

RAINFALL DATA / FACILITY SIZING

Rainfall data, and the impacts to existing and future facilities, were considered as part of the MDP update. The rainfall data contained in the District's Hydrology Manual is based on NOAA Atlas II rainfall. The hydrology calculations for the San Jacinto and the Northwest Hemet MDPs utilize the NOAA Atlas II data, with adjustments to match local precipitation gauge data available at the time the studies were performed. All facilities constructed prior to 2006 were sized based on NOAA Atlas II data.

In 2006, the Hydrology Standards for the Plan were established. Rainfall data was based on NOAA Atlas 14 Volume 1 Version 4.0, the most current data available at the time. Within the Plan Area, NOAA Atlas 14 rainfall values are higher than the earlier NOAA Atlas II rainfall values. Consequently, the existing facilities do not have capacity to convey the "additional flow" generated by using the NOAA Atlas 14 rainfall values. Accordingly, if new facilities located upstream of existing facilities were sized using NOAA Atlas 14 rainfall values, the downstream facilities would either need to be modified to increase their conveyance capacity or detention basins would be required upstream of each existing facility to reduce peak flows to match the conveyance capacity of the existing downstream facilities. The cost of retrofitting existing facilities, compared to the additional flood protection they would provide, was deemed to be excessive. The construction of detention basins upstream of existing drainage facilities also proved to be problematic since much of the area is already developed and there is very limited space available in which to construct new basins. Therefore, it was determined that NOAA Atlas II rainfall data would be used to size those facilities located upstream of an existing MDP facility and NOAA Atlas 14 rainfall data would be used to size all new MDP facilities and downstream extensions of any existing MDP facilities.

Table 4-1 lists the modified point rainfall values used in the development of the San Jacinto and Northwest Hemet MDPs. In the updated Plan where proposed facilities are i) located upstream of existing facilities (i.e. NOAA Atlas II Rainfall) and ii) maintain the same alignment as the original San Jacinto or Northwest Hemet MDPs, the modified NOAA Atlas II rainfall data is used.

Table 4-2 contains the unmodified NOAA Atlas II rainfall data. In the updated Plan where proposed facilities are both upstream of existing facilities (i.e., NOAA Atlas II Rainfall) and new alignments are proposed, the unmodified NOAA Atlas II rainfall data is used. Table 4-3 contains the NOAA Atlas 14 Rainfall Values. These values are used downstream of existing facilities. Exhibit 4-1 shows where the various rainfall data is used within the Plan.

Table 4-1 – Modified NOAA Atlas II Rainfall Depths
from the Original San Jacinto MDP and Northwest Hemet MDP Point Rainfall Values

Event	10-year	100-year
1-Hour	0.68"	1.06"
3-Hour	1.16"	1.82"
6-Hour	1.71"	2.68"
24-Hour	3.03"	4.75"

Slope of Intensity curve = 0.5

Table 4-2 – NOAA Atlas II Standard Intensities for Updated MDP Facilities

Event	10-year	100-year
1-Hour	0.81"	1.2"

Slope of Intensity curve = 0.5

Table 4-3 – NOAA Atlas 14 Point Rainfall Values

Event	NOAA 14
100-Year 1-Hour	1.65"
100-Year 3-Hour	2.35"
100-Year 6-Hour	3.30"
100-Year 24-Hour	5.66"

Slope of Intensity Curve = 0.6

SOIL TYPE DATA

Two sources of soil type data were used for hydrology calculations. For those areas that utilized NOAA 2 rainfall data, NRCS soil type data published in the Hydrology Manual was used. For those areas that utilized NOAA 14 rainfall data, updated NRCS SSURGO GIS soil type data was used. Soil type exhibits are contained in the San Jacinto Valley MDP Hydrology Reports.

LAND USE / PERCENT IMPERVIOUS

Certain facilities within the current Plan are carryovers from the District's San Jacinto and Northwest Hemet MDPs. Specifically, the facilities include San Jacinto MDP Lines A, A-1, A-2, A-3, B, B-1, C, C-4, C-5, D, D-3, D-4, E-1, E-2, E-2A, E-3, H, H-1, J, J-1 and J-2 and within the Northwest Hemet MDP Lines B, B-2, B-2, B-3, B-4 and B-5. The hydrology calculations for the San Jacinto MDP were based on "The Hemet-San Jacinto Area General Plan" and the calculations for the Northwest Hemet MDP are based on the Riverside County "Comprehensive General Plan (1984)". The calculations for all other facilities within the Plan are based on the General Plans for the City of San Jacinto (2006), the City of Hemet (2006), and the County of Riverside (2003). Ultimate land at build out use was assumed for all hydrology calculations.

Land use designations for the San Jacinto Valley MDP were translated to impervious percentage as shown below. In general, land designated as High Density Residential or Very High Density Residential was classified as Apartments. Land use designated as Community Commercial, Downtown Commercial, or Light Industrial was classified as Commercial/Industrial in the Plan. Land use designated as Medium Density Residential, Low Density Residential, Parks, and various

other land use designations was classified as ¼ Acre Residential in the Plan. Land use designated as Very Low Density Residential was defined as ½ Acre Residential in the Plan. Table 4.4 provides a summary of the various zoning land use designations and the resulting hydrological land use designations.

Table 4-4 – San Jacinto Valley MDP - Land Use Chart

San Jacinto Valley MDP - Land Use Chart			
Land Use Description	Abbreviation	Classified as	Impervious %
Business Park	BP	commercial	90%
Community Commercial	CC	commercial	90%
Downtown Commercial	DC	commercial	90%
Industrial	I	commercial	90%
Light Industrial	LI	commercial	90%
High Density Residential	HDR	apartments	80%
Very High Density	VHDR	apartments	80%
Low Density Residential	LDR	1/4-acre SFR	50%
Low Density Transitional	LDT	1/4-acre SFR	50%
Medium Density	MDR	1/4-acre SFR	50%
Parks	PR	1/4-acre SFR	50%
Public Institution	P	1/4-acre SFR	50%
Very Low Density	VLDR	1/2-acre SFR	40%
Eastern Municipal Water	EMWD	Undeveloped	0%
Hillside	Hill	Undeveloped	0%
Open Space	OS	Undeveloped	0%
Rural Residential	RR	Undeveloped	0%

SUMMARY OF HYDROLOGY ANALYSIS

The backup hydrology and hydraulic reports prepared for the Plan are organized into three sub-areas, the North Area, the West Area and the City Area. Each of the four reports listed below contains detailed hydrologic and hydraulic information used in the development of the Plan. A summary of each report follows:

- **San Jacinto Valley Master Drainage Plan Update for the North Area (July 2007, Revised August 2008).** Contains unit hydrograph analysis, routing studies, rational hydrology studies, hydraulic analysis, facility plan and profile sheets, and costs estimates for the North Area.
- **Design Hydrology Review for the San Jacinto Valley Master Drainage Plan Update for the West Area (March 2007, Revised July 2008).** Contains unit hydrograph analysis for the West Area.
- **San Jacinto Valley Master Drainage Plan Update for the West Area (May 2007, Revised October 2008).** Contains routing studies, rational hydrology studies, hydraulic analysis, facility plan and profile sheets, and costs estimates for the West Area.

- **San Jacinto Valley Master Drainage Plan Update for the City of San Jacinto Area (September 2008, Revised April 2009, Revised July 2010).** Contains rational hydrology studies, hydraulic analysis, facility plan and profile sheets, and cost estimates for the City Area.

Copies of these reports are on file at the District.

SECTION V – ALTERNATIVES/REFINEMENTS

OVERVIEW

As stated in the Executive Summary, both the West and the North Areas are primarily undeveloped and without a master drainage plan. Therefore, the development of this Plan entailed an extensive analysis of alternative drainage networks for these two areas.

Several conceptual alternatives were initially developed for the North and the West Areas, respectively. The conceptual alternatives considered various facility types and alignments. Flows were determined using area weighted approximations from preliminary unit hydrograph flows. Facility sizes were estimated using normal depth calculations.

WEST AREA

Based upon the conceptual level analysis, "Alternative 4" was selected by both the City and the District because "Alternative 4" was the only alternative that adequately addressed Line D flows southerly of the EMWD Water Reclamation Facility. Nine variations of "Alternative 4" were then developed in order to optimize basin sizes and locations, and facility types. Facility sizes, costs and right-of-way requirements were developed for each of the nine variations. Based upon the analysis, the City and the District selected "Alternative 4.2" as the preferred alternative for the West Area.

NORTH AREA

Based upon the conceptual level analysis, six variations of the conceptual alternatives were developed in order to optimize basin sizes and locations and facility types. Facility sizes, costs and right-of-way requirements were developed for each of the six variations. Based upon the analysis, the City and the District selected "Alternative 1A" as the preferred alternative for the North Area.

CITY AREA

The San Jacinto and Northwest Hemet MDPs had previously established a drainage plan and some of the proposed drainage facilities within the two MDPs have been constructed. Additionally, as previously mentioned, existing land-use patterns limited opportunities for new detention basin facilities. Therefore, it was not necessary to perform an extensive alternatives analysis within the City Area. Nevertheless, modifications and refinements to the San Jacinto and Northwest Hemet MDPs were made to accommodate existing development and alleviate existing drainage concerns. A list of the modified facilities within the City Area is shown below. A detailed description of the facilities is contained in the Design Hydrology Review Report for the City Area, which is available from the District.

- Line D-2 Extension (Hewitt Street Storm Drain)
- Line G
- Line G-1
- Line G-3
- Line E-4
- Line E-5
- Line E-6
- Line H-2
- N Line E-2
- N Line E-2A
- Lyon Avenue Basin

SECTION VI – RECOMMENDED IMPROVEMENTS

RECOMMENDED IMPROVEMENTS

The improvements proposed in this Plan are shown on the enclosed map found at the back of this report. Supporting data for all proposed facilities are on file at the District.

Design engineers should be aware that a detailed utility search was not completed during preparation of preliminary plan and profile drawings. This means that, while most of the major known utilities were addressed, a more thorough search may reveal utilities that will necessitate minor changes in facility alignment and/or size, or utility relocations.

OPEN CHANNELS

The open channels proposed in this Plan consist of two types, lined and unlined.

Lined channels² are usually trapezoidal shaped with concrete paving on the sides and bottom. Side slopes are 1.5 foot horizontal run for every 1-foot of vertical rise, although some lined facilities in this Plan have vertical side slopes. The lined channels in this Plan range in bottom width from 2 feet to 15 feet and in depth from 4 feet to 7 feet.

Unlined facilities³ are usually trapezoidal shaped and have no protection for the bottom or side slopes, although some unlined channels in this Plan will require rock slope protection. Side slopes are 4 foot horizontal run for every 1-foot of vertical rise, or milder, and are restricted to instances where flow velocities are found to be non-erosive.

The channel right-of-way required for both lined and unlined facilities must accommodate the channel as well as maintenance access. Channels with top widths of less than 20 feet require one maintenance access road; top widths of 20 feet or greater require two maintenance access roads.

UNDERGROUND STORM DRAINS

The proposed underground storm drains generally consist of reinforced concrete pipe ranging in size from 30 inches to 96 inches in diameter. Reinforced concrete boxes are usually placed under dedicated road crossings or where the flow rates exceed the capacity of standard pipe sizes. The underground storm drains proposed in the Plan consist of pre-cast reinforced concrete pipe or reinforced concrete box.

DETENTION BASINS

The purpose of the detention basins proposed in this Plan is to substantially reduce peak flow rates in the downstream system through the use of temporary detention storage. This peak flow reduction allows the use of smaller, less costly downstream facilities. It should be pointed out that the detention basins proposed in this plan are sized for the one-percent annual chance (100-year) storm event assuming ultimate development (i.e., full build-out). Flows exceeding the design capacity of the basin would pass over the emergency spillway in flow patterns approximating present conditions.

² Ref. RCFC&WCD Standard Drawing Nos. CH 326, CH 327

³ Ref. RCFC&WCD Standard Drawing Nos. CH324, CH 325

SECTION VII – REGIONAL WATER QUALITY FEATURES

BACKGROUND

Urban stormwater quality management has become an increasingly important aspect of drainage planning and design. The Federal Water Pollution Control Act established the National Pollutant Discharge Elimination System (NPDES) permitting program which, among other things, regulates the discharges from municipal separate storm sewer systems (MS4s). The NPDES program is administered in California by the State Water Resources Control Board. MS4 Permits are issued by Regional Water Quality Control Boards. The Plan area is located within the Santa Ana Region and is currently governed by an existing MS4 Permit of which the District and Cities of San Jacinto and Hemet are co-permittees. The current MS4 Permit requires new developments and redevelopments that exceed a certain criteria to prepare site specific Water Quality Management Plans (WQMPs). Site specific WQMPs identify site design, source control, and treatment control Best Management Practices (BMPs) that a new development project must implement on-site to minimize impacts to downstream receiving waters.

REGIONAL OPPORTUNITIES

Regional water quality opportunities were explored as part of the preparation of the San Jacinto Valley MDP. Discussions were held with the Santa Ana Regional Water Quality Control Board regarding the incorporation of regional water quality control features into the San Jacinto Valley MDP. The Regional Board was supportive of utilizing regional water quality features in conjunction with site specific features to form water quality treatment trains. The implementation of such features does not remove the requirement, stipulated by the MS4 Permit, to prepare and implement site specific WQMPs. Rather the basins will serve as additional measures to protect the beneficial uses of downstream water resources.

MDP WATER QUALITY FEATURES

The San Jacinto Valley MDP includes several elements that will help promote regional water quality. Where possible, the plan will utilize earthen channels rather than concrete lined channels. This site design BMP will promote infiltration of urban runoff. Regional detention basins will promote ground water recharge and remove trash and debris from runoff. The MDP drainage facilities, coupled with site specific BMPs, will effectively treat pollutants of concern tributary to downstream receiving water bodies.

SECTION VIII– COSTS

ESTIMATED COST

A cost summary for the MDP facilities is shown in **TABLE 8-1 "Cost Summary"**. Costs were based on the 2011 Planning Unit Cost sheets and include construction, right-of-way and 40% for engineering, environmental mitigation, administration and contingencies.

Table 8-1 Cost Summary

Table 8-1				
San Jacinto Valley Master Drainage Plan Cost Summary				
Area	Facilities	Construction*	Right of Way	2011 Cost (\$)
North Area	Line 1	\$ 1,654,000	\$ 858,000	\$ 2,512,000
	Line 2	\$ 2,512,000	\$ 2,247,000	\$ 4,759,000
	Line 3	\$ 450,000	\$ 252,000	\$ 702,000
	Line 4	\$ 7,874,000	\$ 624,000	\$ 8,498,000
	Line 5	\$ 2,136,000	\$ -	\$ 2,136,000
	Line 6	\$ 1,626,000	\$ 206,000	\$ 1,832,000
	Lateral 4A	\$ 1,840,000	\$ -	\$ 1,840,000
	North Basin	\$ 1,722,000	\$ 1,020,000	\$ 2,742,000
West Area	N Line A-1	\$ 11,323,000	\$ -	\$ 11,323,000
	N Line A-2	\$ 1,523,000	\$ -	\$ 1,523,000
	N Line A-3	\$ 747,000	\$ -	\$ 747,000
	N Line A-4	\$ 687,000	\$ 10,000	\$ 697,000
	N Line A-5	\$ 1,173,000	\$ -	\$ 1,173,000
	N Line D	\$ 10,433,000	\$ 10,000	\$ 10,443,000
	N Lateral D-1	\$ 1,665,000	\$ -	\$ 1,665,000
	Line W	\$ 684,000	\$ 402,000	\$ 1,086,000
	Line X	\$ 7,659,000	\$ 1,244,000	\$ 8,903,000
	Lateral X-1	\$ 2,707,000	\$ -	\$ 2,707,000
	Line Y	\$ 29,788,000	\$ 316,000	\$ 30,104,000
	Line Y-1	\$ 4,074,000	\$ 15,000	\$ 4,089,000
	Lateral Y-1	\$ 608,000	\$ 10,000	\$ 618,000
	Lateral Y-2	\$ 252,000	\$ 5,000	\$ 257,000
	Lateral Y-3	\$ 270,000	\$ 5,000	\$ 275,000
	Lateral Y-4	\$ 276,000	\$ 5,000	\$ 281,000
	Lateral Y-5	\$ 171,000	\$ 5,000	\$ 176,000
	Lateral Y-6	\$ 232,000	\$ 10,000	\$ 242,000
	Lateral Y-7	\$ 446,000	\$ 5,000	\$ 451,000
	Lateral Y-8	\$ 281,000	\$ 5,000	\$ 286,000
	Lateral Y-9	\$ 1,130,000	\$ 10,000	\$ 1,140,000
	Lateral Y-10	\$ 283,000	\$ 5,000	\$ 288,000
	Lateral Y-11	\$ 1,081,000	\$ 10,000	\$ 1,091,000
	Lateral Y-12	\$ 306,000	\$ 5,000	\$ 311,000
	Lateral Y-13	\$ 338,000	\$ 5,000	\$ 343,000
	Line Z	\$ 9,323,000	\$ 1,573,000	\$ 10,896,000
	Casa Loma Basin	\$ 7,421,000	\$ 2,294,000	\$ 9,715,000
Line D Basin	\$ 1,854,000	\$ 910,000	\$ 2,764,000	
Line EYZ Basin	\$ 708,000	\$ 388,000	\$ 1,096,000	
City Area	A. Proposed MDP Facilities, Engineering By Webb Associates			
	Line D-2 Extension	\$ 973,000	\$ -	\$ 973,000
	Line E-4	\$ 914,000	\$ -	\$ 914,000
	Line E-5	\$ 842,000	\$ -	\$ 842,000
	Line E-6	\$ 3,098,000	\$ -	\$ 3,098,000
	Line G Downstream	\$ 2,661,000	\$ -	\$ 2,661,000
	Line G on De Anza	\$ 12,202,000	\$ -	\$ 12,202,000
	Line G-1	\$ 3,863,000	\$ 39,000	\$ 3,902,000

**Table 8-1
San Jacinto Valley Master Drainage Plan Cost Summary**

Area	Facilities	Construction*	Right of Way	Total Cost	
City Area	Line G-2	\$ 461,000	\$ -	\$ 461,000	
	Line G-3	\$ 7,896,000	\$ 312,000	\$ 8,208,000	
	Line H-2	\$ 995,000	\$ -	\$ 995,000	
	Line J-3	\$ 6,156,000	\$ -	\$ 6,156,000	
	Line K	\$ 1,179,000	\$ -	\$ 1,179,000	
	Line V	\$ 2,040,000	\$ 1,014,000	\$ 3,054,000	
	N Line E	\$ 13,114,000	\$ 4,140,000	\$ 17,254,000	
	N Line E-2	\$ 6,906,000	\$ 318,000	\$ 7,224,000	
	N Line E-2A	\$ 534,000	\$ -	\$ 534,000	
	Lyon Avenue Basin	\$ 614,000	\$ -	\$ 614,000	
	B. Proposed MDP Facilities, Engineering By RCFC&WCD 1982				
	Line A	\$ 5,192,000	\$ 108,000	\$ 5,300,000	
	Line A-1	\$ 520,000	\$ -	\$ 520,000	
	Line A-2	\$ 644,000	\$ -	\$ 644,000	
	Line A-3	\$ 405,000	\$ -	\$ 405,000	
	Line B	\$ 2,572,000	\$ 48,000	\$ 2,620,000	
	Line B-1	\$ 927,000	\$ -	\$ 927,000	
	Line C	\$ 3,401,000	\$ 378,000	\$ 3,779,000	
	Line C-4	\$ 2,631,000	\$ -	\$ 2,631,000	
	Line C-5	\$ 238,000	\$ -	\$ 238,000	
	Line D	\$ 1,194,000	\$ -	\$ 1,194,000	
	Line D-1	\$ 781,000	\$ -	\$ 781,000	
	Line D-3	\$ 423,000	\$ -	\$ 423,000	
	Line D-4	\$ 438,000	\$ -	\$ 438,000	
	Line E-1	\$ 403,000	\$ 54,000	\$ 457,000	
	Line E-2	\$ 4,340,000	\$ -	\$ 4,340,000	
	Line E-2a	\$ 253,000	\$ -	\$ 253,000	
	Line E-3	\$ 957,000	\$ 102,000	\$ 1,059,000	
	Line H	\$ 3,978,000	\$ 480,000	\$ 4,458,000	
	Line H-1	\$ 680,000	\$ -	\$ 680,000	
	Line J south of Ramona	\$ 2,667,000	\$ 156,000	\$ 2,823,000	
	Line J-1	\$ 834,000	\$ -	\$ 834,000	
	Line J-2	\$ 1,048,000	\$ -	\$ 1,048,000	
N Line B	\$ 1,033,000	\$ 78,000	\$ 1,111,000		
N Line B-1	\$ 3,826,000	\$ -	\$ 3,826,000		
N Line B-2	\$ 1,379,000	\$ -	\$ 1,379,000		
N Line B-3	\$ 1,297,000	\$ -	\$ 1,297,000		
N Line B-4	\$ 656,000	\$ -	\$ 656,000		
N Line B-5	\$ 583,000	\$ -	\$ 583,000		
C. Proposed MDP Facilities, Engineering By Various Engineers					
Line J north of Ramona	\$ 2,145,000	\$ 492,000	\$ 2,637,000		
Total	\$ 227,150,000	\$ 20,173,000	\$ 247,323,000		

* Includes 40% for Engineering, Administration, Contingencies & Mitigation
Values rounded to nearest thousand

SECTION IX – CONCLUSION AND RECOMMENDATIONS

Based on the studies and investigations made for this report, the District's General Manager-Chief Engineer has determined that:

1. The San Jacinto Valley has experienced serious flooding problems in the past. As this area continues to urbanize, the risk of flood damage is expected to increase unless the flood protection and drainage facilities identified in the Plan are constructed in an orderly manner.
2. A drainage system is required to safely convey stormwater runoff through the area with the least interruption to public services. The Plan presented in this report is such a system and is deemed the most feasible of the alternatives studied.
3. The proposed Plan lends itself to staged construction as funds become available.
4. The total cost of the recommended improvements, including construction, rights-of-way, engineering, administration and contingencies, is estimated to be \$247,323,000.

Therefore, it is recommended that:

1. The Master Drainage Plan, as set forth herein, be adopted by the Riverside County Flood Control and Water Conservation District's Board of Supervisors and by the Cities of Hemet and San Jacinto.
2. The Master Drainage Plan, as set forth herein, be used as a guide for all future developments in the study area and that such developments be required to conform to the Plan insofar as possible.
3. The rights-of-way necessary for construction the Plan's facilities be protected from encroachment.

Exhibit 1-1 - San Jacinto Valley MDP Boundary



Legend

-  San Jacinto Valley MDP Boundary
-  Northwest Improvement Plan Boundary
-  Northwest Hemet MDP Boundary
-  San Jacinto MDP Boundary

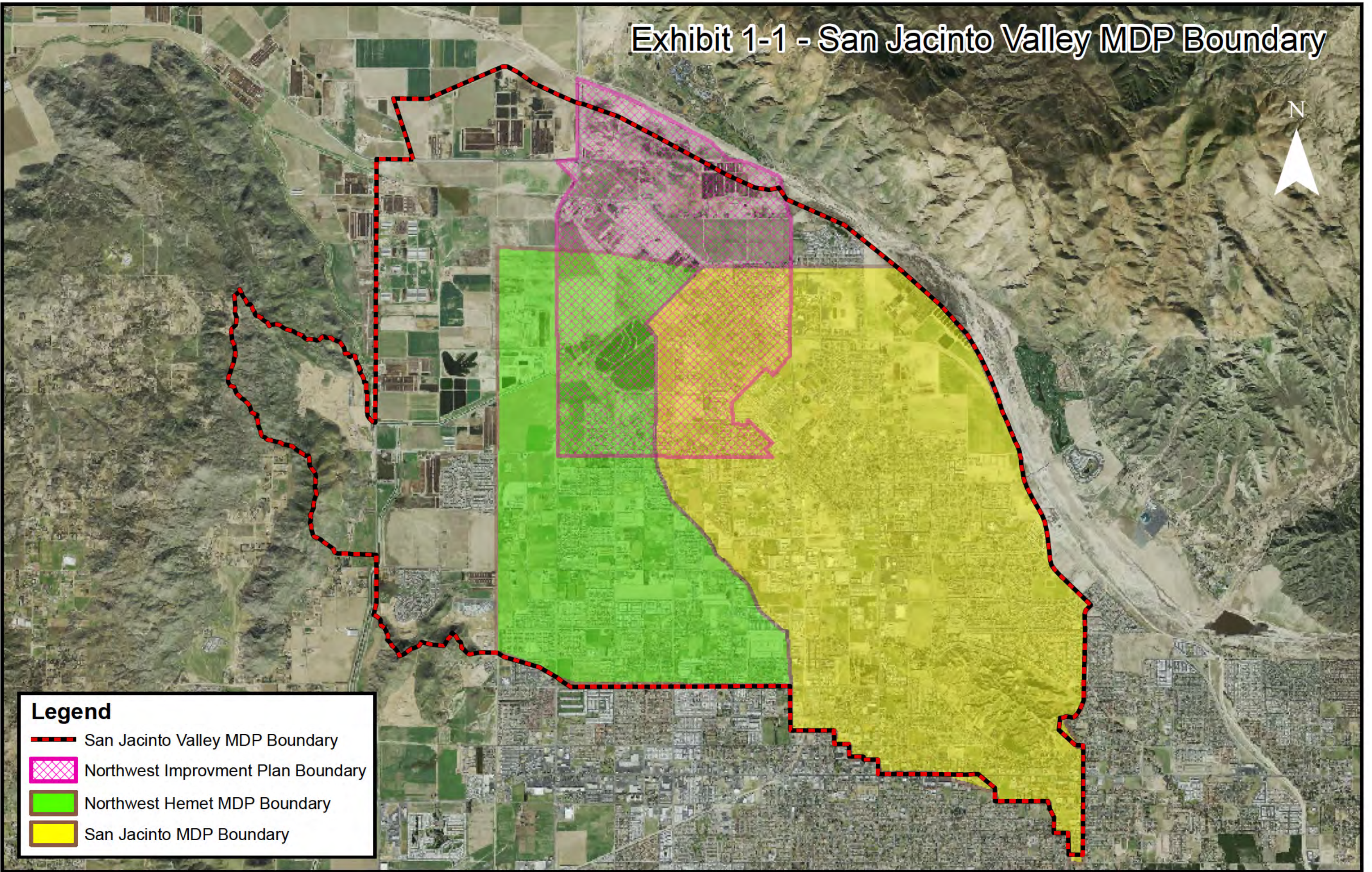



Exhibit 1-2 - San Jacinto Valley MDP Subareas

N




Legend

 San Jacinto Valley MDP Boundary

MDP

Subarea

 City Area

 North Area

 West Area

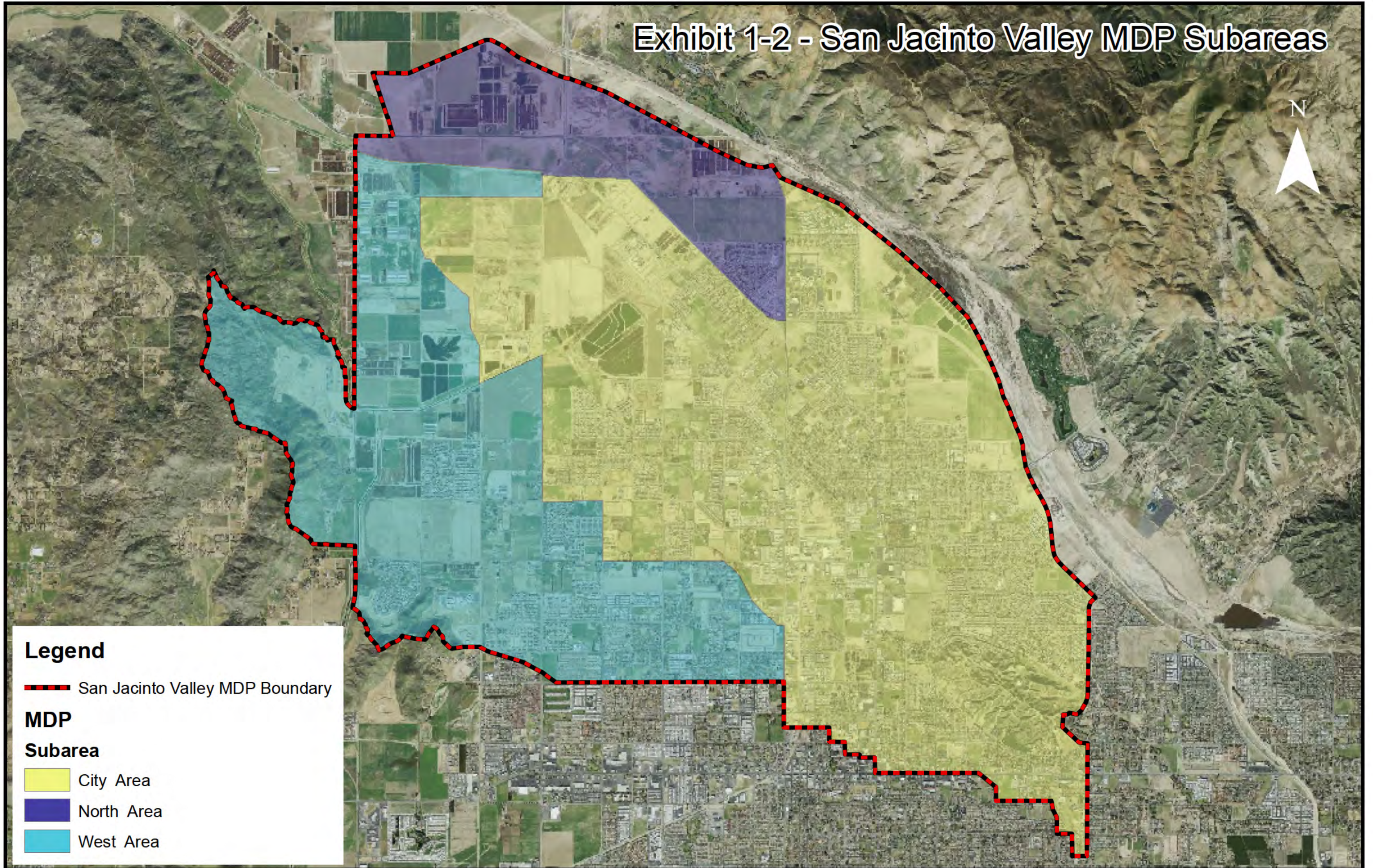


Exhibit 1-3 - Existing Floodplain Exhibit




Stage IV
Levee (Future)


Army Corps
Levee (Existing)

Legend

 San Jacinto Valley MDP Boundary

Flood Hazard Areas

 100-Year Floodplain

 500-Year Floodplain

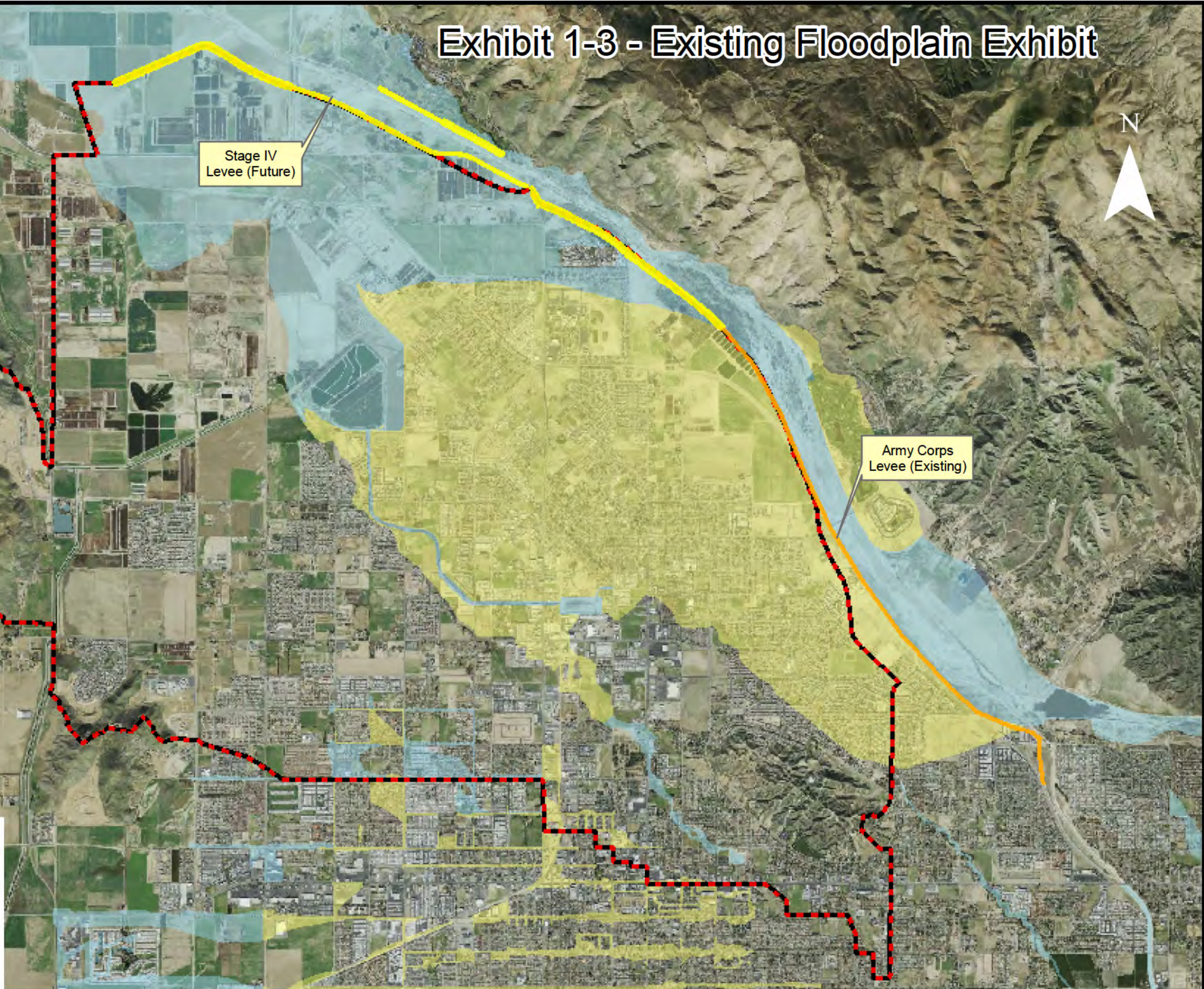


Exhibit 4-1 - Rainfall Exhibit

N



Legend

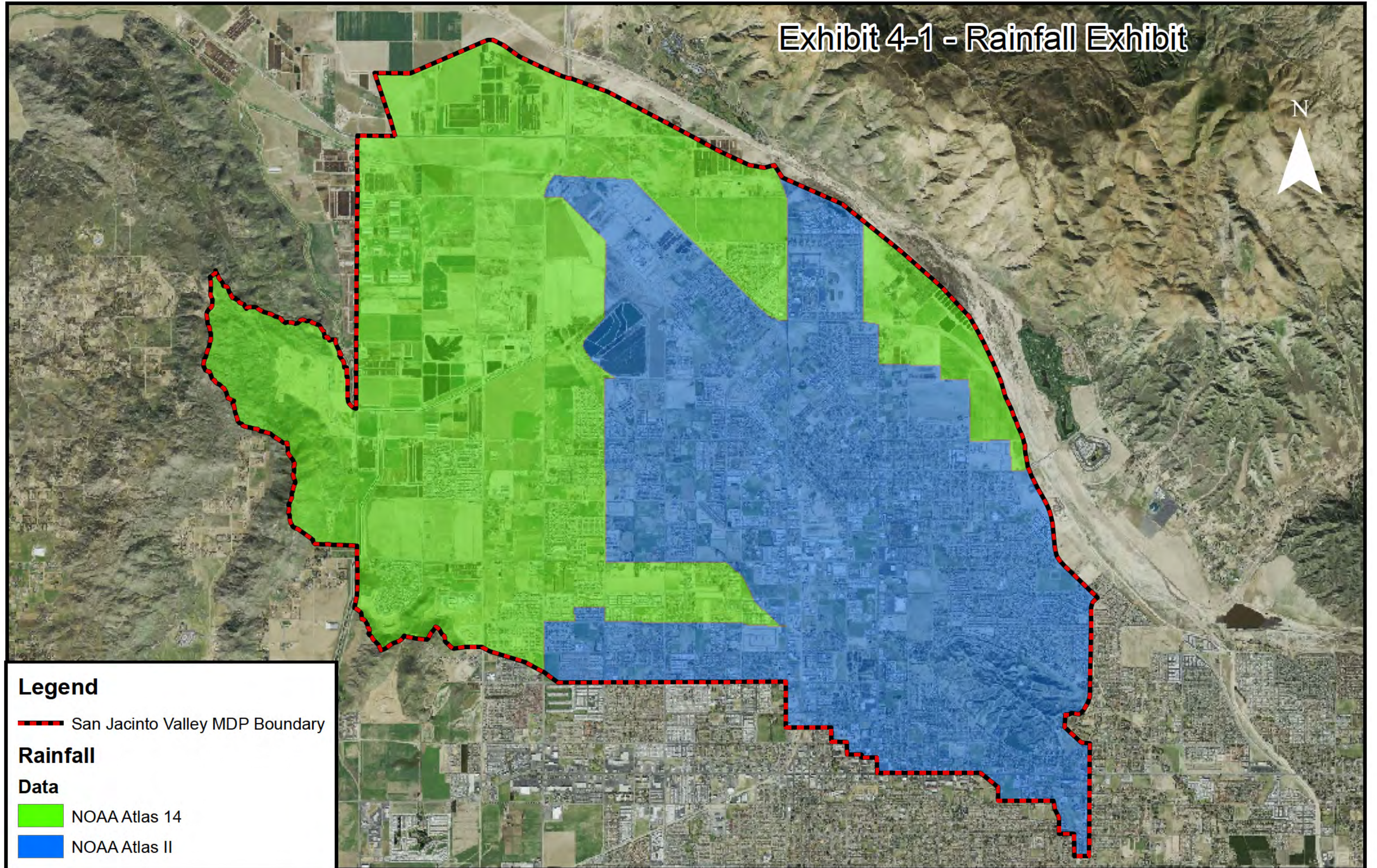
 San Jacinto Valley MDP Boundary

Rainfall

Data

 NOAA Atlas 14

 NOAA Atlas II



APPENDIX A

Eastern Municipal Water District
Resolution No. 5073



VII.K.
R-5073

Board of Directors

**President and
Treasurer**

Joseph J. Kuebler, CPA

Vice President

Philip E. Paule

Ronald W. Sullivan

Randy A. Record

David J. Slawson

General Manager

Paul D. Jones II, P.E.

**Director of The
Metropolitan Water
District of So. Calif.**
Randy A. Record

**Board Secretary and
Assistant to the
General Manager**
Rosemarie V. Howard

Legal Counsel
Redwine and Sherrill

May 23, 2012

TO: Board of Directors

FROM: General Manager

SUBJECT: Adopt Proposed Resolution No. 5073, Acknowledging the District's San Jacinto Reservoir as an Integral Component of the San Jacinto Valley Master Drainage Plan

RECOMMENDATION

This proposed resolution was presented to the Board Operations and Engineering Committee on May 14, 2012, and received its full concurrence. It is recommended that the Board adopt proposed Resolution No. 5073, Acknowledging the District's San Jacinto Reservoir as an Integral Component of the San Jacinto Valley Master Drainage Plan.

Concur:

Paul D. Jones II, P.E.
General Manager

Submitted by:

Charles J. Bachmann
Assistant General Manager
Engineering and Construction

Directors: All

Divisions: All

BACKGROUND

In 2002, Eastern Municipal Water District (EMWD) and Riverside County Flood Control and Water Conservation District (RCFC&WCD) worked cooperatively to obtain a Proposition 13 grant to develop a joint project at EMWD's San Jacinto Reservoir. The project routes local storm runoff into the southern portion of the reservoir, which acts as a stormwater retention basin. The water retained within the reservoir percolates into the underlying groundwater basin, providing a water harvesting feature for EMWD.

The project was complete and has been operating successfully since its completion. RCFC&WCD is currently completing a Master Drainage Plan for the San Jacinto Valley. The stormwater retention feature of the San Jacinto Reservoir is a key component of that plan and allows RCFC&WCD to reduce the size of downstream stormwater conveyance facilities. To ensure that the San Jacinto Reservoir will continue to provide peak storm flow attenuation, RCFC&WCD is requesting that EMWD adopt the proposed resolution acknowledging the role that the reservoir plays and agreeing to not make changes to the reservoir without coordinating with them.

This project supports the Organizational Efficiency Strategic Plan Objective VI (Planning) by "Utilizing sound planning principles, develop water and wastewater related capital facilities in an efficient, timely, and cost-effective manner."

CJB:cdd

Attachment: Resolution No. 5073

Finance 

Purchasing/Contracts 

Author: Charlie Bachmann

R-5073 SJ Reservoir Ltr.052312

RESOLUTION NO. 5073

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE EASTERN MUNICIPAL WATER DISTRICT ACKNOWLEDGING THE DISTRICT'S SAN JACINTO RESERVOIR AS AN INTEGRAL COMPONENT OF THE SAN JACINTO VALLEY MASTER DRAINAGE PLAN

WHEREAS, the City of San Jacinto in conjunction with the Riverside County Flood Control and Water Conservation District (RCFC&WCD) are developing the San Jacinto Valley Master Drainage Plan (Master Drainage Plan) within the Cities of San Jacinto, Hemet and unincorporated portions of Riverside County; and

WHEREAS, the Master Drainage Plan proposes a master-planned network of storm drains, basins and open channels to collect and convey stormwater flows within the San Jacinto Valley area to provide critically important flood protection and drainage to the area; and

WHEREAS, the Master Drainage Plan utilizes the storage volume of Eastern Municipal Water District's (EMWD) San Jacinto Reservoir (Basin) for the attenuation of peak stormwater flows from the "Line E" and "Line G-3" drainage areas, making the Basin's storage volume an integral component of the overall Master Drainage Plan; and

WHEREAS, EMWD finds that it is in the best interest of its customers and the public at large to utilize the Basin to facilitate stormwater harvesting and groundwater recharge; and

WHEREAS, RCFC&WCD and EMWD entered into an Agreement on December 10, 2002, which facilitated the design and construction of certain improvements to the Basin, which are now complete; and

WHEREAS, such improvements enable stormwater flows from the "Line E" drainage system to be directed into the Basin for purposes of water harvesting and groundwater recharge; and

WHEREAS, the Agreement further recognized that stormwater flows from the "Line G-3" drainage system would outlet into the Basin, with the terms and conditions for its construction to be addressed in a separate agreement; and

WHEREAS, a reduction in the Basin's storage volume could have an adverse impact on downstream property owners.

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors of the Eastern Municipal Water District, in Adjourned Regular Session assembled this 23rd day of May, 2012, **DOES HEREBY RESOLVE, ORDER AND DETERMINE AS FOLLOWS:**

SECTION 1. Each of the above recitals is true and correct.

SECTION 2. Acknowledges that the existing storage volume provided by the Basin is an integral component of the Master Drainage Plan.

SECTION 3. Prior to effecting any Basin modifications that could potentially diminish Basin's storage volume, EMWD shall consult and coordinate with RCFC&WCD and the City of San Jacinto.

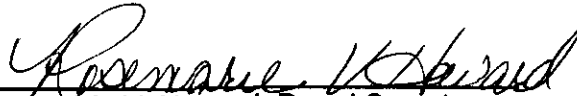
Resolution No. 5073

BE IT FINALLY RESOLVED, that the effective date of this Resolution shall be May 23, 2012.



Joseph J. Kuebler, President

ATTEST:



Rosemarie V. Howard, Board Secretary

(SEAL)