Sewer Feasibility Report

Victorville – Dos Palmas Development

June 2022

DAVID EVANS AND ASSOCIATES INC.

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Project Description

As requested by the City of Victorville (City), David Evans and Associates (DEA) is tasked to evaluate the feasibility and potential impact of connecting the Dos Palmas Development (Plan 21-00019), APN 0396-381-01 and 3096-381-09, to the City's existing sanitary sewer collection system. **Appendix A** provides a Vicinity Map and Site Plan of the project.

The proposed project will consist of multiple developments within four lots (Lots A, B, C and D). Table 1 summarizes the proposed developments on Lots A-D.

Table 1 - Project Summary

Lot	Acreage	Building	Use(s)	Square Footage (SF) or No. of Rooms
A	3.10	Two-Single Story Structures	Retail Store 1	6,234
			Dry Cleaners	2,305
			Retail Store 2	1,820
			Self-Serve Car Wash	1,820
B	1.31	Single-Story Structure	Drive Thru Restaurant 1	3,528
C	0.96	Single-Story Structure	Drive Thru Restaurant 2	2,200
D	2.44	Hotel Building	Hotel Rooms	112
			Hotel Facilities	16,344 [1]

[1 Square footage is the building footprint. This assumes facilities are within the first floor of the building.

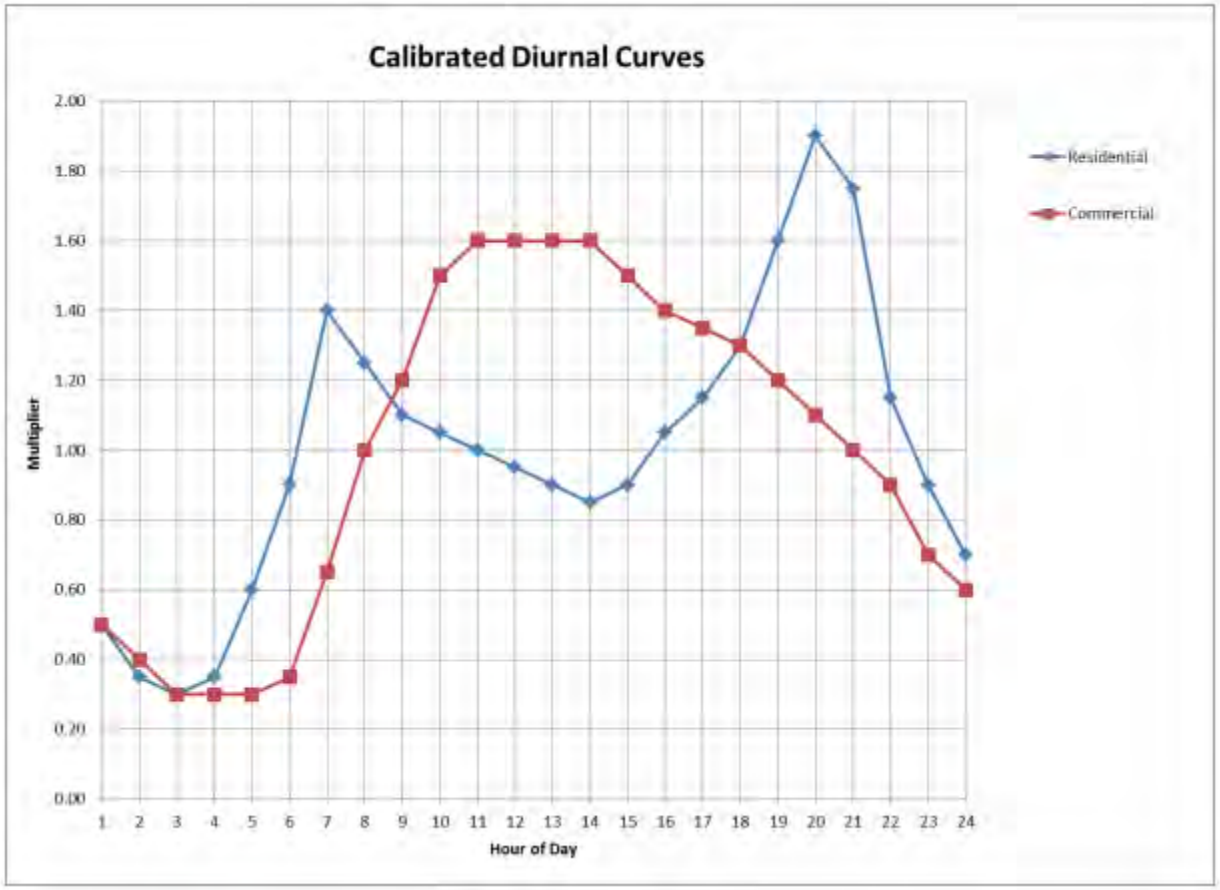
This area is currently classified as a commercial (C-1) zone. The contributing sewer flows will be analyzed based upon the Site Plan prepared by Brahmbhatt Architects. Because there is no conceptual utility plan, this study analyzes two potential discharge points based on the existing sewer system: 1.) 8-inch pipeline on Dos Palmas Road (approximately 660 feet west of the Dos Palmas Road and Mesa Linda Avenue intersection) and 2.) 8-inch pipeline on Dandelion Way. This Project will require a concept utility plan to propose a point of connection. **Appendix B** highlights the closest potential point of connections (POC) and impacted downstream City sewers.

Analysis and Methodology

InfoSewer is the modeling software used for this study. InfoSewer is an ArcGIS-integrated computer program with the capability to perform both steady state analysis, and extended period simulations. For this project, the hydraulic model from the City of Victorville 2016 Sewer Master Plan (SMP) was used to evaluate the hydraulic capacity of the downstream City sewers.

The variation of flows were captured in the hydraulic model using a diurnal curve method with a peaking factor of 1.9 for residential developments and 1.6 for commercial developments. The retail store, dry cleaners, self car wash, drive-thru restaurants, and hotel facilities are considered commercial and will utilize the 1.6 peaking factor, whereas the hotel rooms will use a peaking factor of 1.9, similar to the residential developments. See Figure (SMP Figure 3-1) from Victorville Sewer Master Plan dated December 2016 of aggregated data for typical residential flow patterns.

Figure 3-1 Calibrated Diurnal Curves



Two scenarios will be analyzed which include the proposed project plus Existing (2015) and the proposed project plus Future (2040) with septic land-use scenarios[1]. The assumptions made in the original Sewer Master Plan (SMP) Report (i.e. flow, peaking factors, flow distribution, etc.) were kept consistent for this sewer feasibility study. Only manhole "SWRMH-008931" in Dos Palmas and manhole "SWRMH-009287" in Dandelion Way were adjusted to model the increased wastewater generation from the Project. **Appendix C** includes references (capacity criteria, peaking factors, and unit flow factors) from the original SMP. Wastewater generation for the Dos Palmas Project is summarized in Table 2.

[1] Note: The SMP focused on 3 scenarios: Existing (2015), Future (2040) with Septic, and Future (2040) without Septic. These scenarios were additionally ran with proposed or recommended Capital Improvement Project (CIP). For purposes of this study two scenarios, the Existing and Future (2040) with Septic were used to model the Dos Palmas development. The new model assumes CIP Improvements are in place for the Future (2040).

Table 2 - Estimated Wastewater Generation

Lot	Usage	Land Use	Unit Factor (gpd/tsf) or (gpd/DU) [1]	DU	Square Footage (SF)	Average flow (GPD)	Peaking Factor [2]	Peak Flow (gpd)
A	Retail Store	Commercial	115	--	6,234	717	1.9	1,362
	Dry Cleaners	Commercial	115	--	2,305	265		504
	Retail Store	Commercial	115	--	1,862	214		407
	Carwash	Commercial	115	--	1,820	209		398
B	Drive-Thru Restaurant	Commercial	115	--	3,528	406		771
	Drive-Thru Restaurant	Commercial	115	--	2,200	253		481
C	Hotel Building	High Density Residential	150	112	--	16,800	1.6	26,880
	Hotel Facilities	Commercial	115	--	16,344	1,880	1.9	3,571
					Total	**20,744**	**--**	**34,373**

[1] Calibration Factors based on "City of Victorville Sewer Master Plan" Table 2-2 "Calibrated Unit Flow Factors" Dated December 2016.
[2] Peaking Factor based on "City of Victorville Sewer Master Plan" Figure 3-1 "Calibrated Diurnal Curves" Dated December 2016.

Note that this model assumes that the proposed SMP Capital Improvement Projects (CIP) have been completed under the Future (2040) scenario. Without the CIP, the Future (2040) will be deficient in various stretches of pipe even without the introduction of the Dos Palmas Project. **Appendix C** includes sections of pipe that are recommended for Capital Improvement Projects (CIP).

Capacity analysis in **Appendix D** consists of two (2) scenarios with two possible point of connections, as described under the Project Description. The two scenarios consist of analyzing the system downstream of the proposed project to the outfall. A summary of each scenario is listed below:

1. *Existing System*– Total flow from the project (20,744 gpd) analyzed to the outfall.
2. *Future (2040) System with CIP* – Total flow from the project (20,744 gpd) analyzed along the downstream system. Note the current land use is vacant but the proposed Project considers a commercial land use. An additional flow on the system was inputted to account for the future development of the commercial zone.

A d/D ratio of 0.75 was used for capacity criteria on all pipe sizes in order to be consistent with the capacity criteria for existing pipes within the SMP. A d/D provides a ratio based upon maximum depth of sewer flow to pipe diameter.

Summary of Analysis

The following summary of analysis considers both of the two potential POCs (8-inch in Dos Palmas Road and 8-inch in Dandelion Way). The summary applies to both alternatives.

1. *Existing System*

Under the existing condition, all gravity mains passed the 0.75 d/D criteria.

2. *Future (2040) System with CIP*

During the Future (2040) scenario with CIP, pipes SWRGM-008698 and SWRGM-007547 exceed the 0.75 d/D criteria. Pipe SWRGM-008698(18-inch in Mesa Linda Drive) experienced a d/D of 0.77 and pipe SWRGM-007547 (27-inch pipe north of Mojave Drive) experienced a d/D of 0.79. It should be noted that prior to adding flows from the Dos Palmas project, these pipes already exceeded the d/D criteria, therefore, the project flow did not contribute to the 0.75 d/D exceedance.

Even though there are two POCs, the proposed development shall extend the sewer along Dos Palmas Road frontage, similar to the frontage extension of water and/or other utilities; unless existing sewer system hydraulics (gravity flow) prohibit sewer main extension. In addition, for ease of future maintenance etc., City Public Works department does not prefer discharging new multi-commercial development's sewage through an adjacent existing residential sewer collection system.

Conclusions of Analysis and Recommendations

1. *Existing System*

All sewer mains have sufficient capacity to convey the additional wastewater flows from the proposed Dos Palmas Project APN 3096-381-01 & 3096-381-09. The Project flows did not contribute to a change in d/D.

2. *Future (2040) System with CIP*

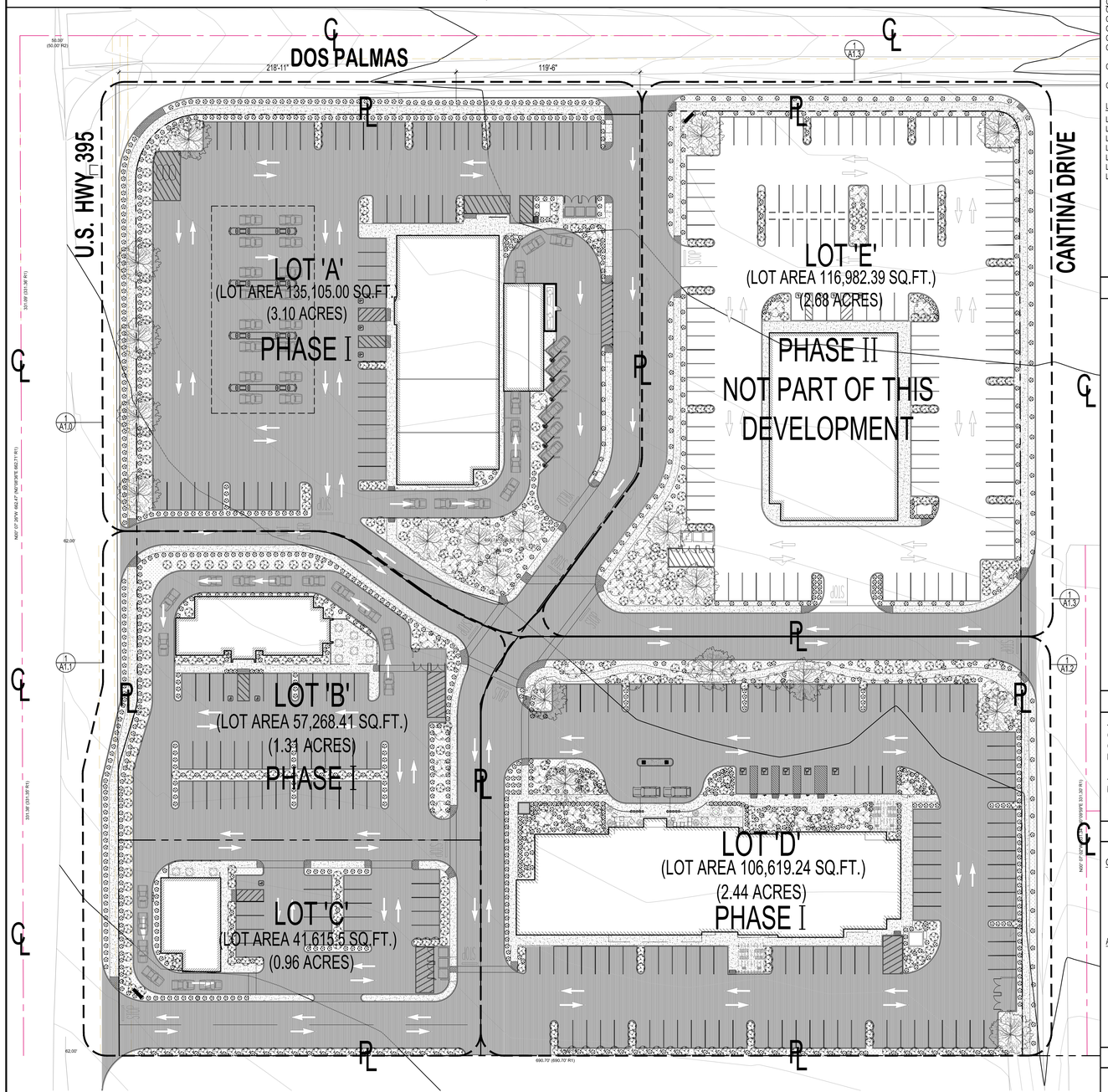
For the Future (2040) scenario, two pipe sections exceeded the 0.75 d/D criteria, however this was not triggered by the Dos Palmas Project. The additional flow was increased in the original SMP Future (2040) analysis to account for the commercial zone replacing the vacant land, but the additional flow from this project is minimal, and for this reason, it is not recommended that further investments/upgrades to the City's CIP be required at this time due to the Dos Palmas project.

Based on the scenarios summarized above, DEA recommends no additional mitigation needed at this time for either the Future (2040) or Existing scenarios. Continued monitoring of the main branch is recommended.

Appendix A
VICINITY MAP AND SITE PLAN

DOS3SRK INVESTMENT LLC - Victorville CA.

Hwy 395, Victorville, CA 92392



PROPOSED SITE PLAN

SCALE: 1" = 600'-0"

1 / A2.1

LEGEND

- PROPERTY LINE
- LANDSCAPE AREA
- HARDSCAPE
- ASPHALT

CITY OF VICTORVILLE NOTES:

1. THE WESTERN JOSHUA TREE IS NOW A PROTECTED SPECIES UNDER CESA DURING THE CANDIDACY PERIOD (AS OF SEPT.22, 2020). IT IS ILLEGAL TO HARM, REMOVE OR RELOCATE THE TREE. IF LOCATED ON THE PARCEL OR WITHIN THE SCOPE OF WORK AREA, AN INCIDENTAL TAKE PERMIT IS REQUIRED, AND AN INITIAL STUDY WITH A MITIGATED NEGATIVE DECLARATION MUST BE UNDERTAKEN FOR THE PROPOSAL.
2. AN APPROVED ON-SITE FIRE PROTECTION SYSTEM (FIRE HYDRANTS), IN ACCORDANCE WITH FIRE AND WATER DEPARTMENT STANDARDS IS REQUIRED. THE SYSTEM IS REQUIRED TO BE IN PLACE AND SERVICEABLE PRIOR TO BUILDING CONSTRUCTION.
3. AN APPROVED WATER SUPPLY SYSTEM, COMPLETE WITH STREET HYDRANTS COMPLYING WITH FIRE DEPARTMENT STANDARDS, SHALL BE IN PLACE PRIOR TO ANY COMBUSTIBLE CONSTRUCTION.
4. KNOX BOX/KEY BOX IS REQUIRED AND SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH FIRE DEPARTMENT STANDARDS.

INDEX OF DRAWINGS

GENERAL

T1.0 TITLE SHEET, SITE PLAN INDEX AND GENERAL NOTES

CIVIL

C0.0 SITE SURVEY
C0.1 SITE SURVEY
C0.3 SITE SURVEY
C1.0 DOS PALMAS GAS STATION / RETAIL PLAN TITLE SHEET
C1.1 DOS PALMAS GAS STATION / RETAIL PLAN CONCEPTUAL GRADING PLAN
C1.2 DOS PALMAS GAS STATION / RETAIL PLAN CONCEPTUAL UTILITY PLAN
C1.3 DOS PALMAS GAS STATION / RETAIL PLAN CONCEPTUAL EROSION CONTROL PLAN

LANDSCAPE PLANS

L0.00 LANDSCAPE SITE PLAN
L1.11 GAS STATION/RETAIL PLANTING AND IRRIGATION PLAN
L1.12 HOTEL PLANTING AND IRRIGATION PLAN
L1.13 HOTEL PLANTING AND IRRIGATION PLAN
L2.21 IRRIGATION DETAILS
L2.31 IRRIGATION SPECIFICATIONS
L3.20 PLANTING AND NOTES

ARCHITECTURAL

A1.0 GAS STATION / CAR WASH SITE PLAN
A1.1 DRIVE-THRU RESTAURANT SITE PLAN
A1.2 HOTEL SITE PLAN
A1.3 OFFICE BUILDING SITE PLAN (FOR REFERENCE ONLY)
A2.0 HOTEL FIRST FLOOR PLAN
A2.1 HOTEL SECOND FLOOR PLAN
A2.2 HOTEL THIRD FLOOR PLAN
A2.3 HOTEL FOURTH FLOOR
A4.0 HOTEL ROOF PLAN
A5.0 HOTEL EXTERIOR ELEVATIONS (BLDG #6)
A5.1 RETAIL STORE / DRY CLEANERS / CAR WASH EXTERIOR ELEVATION (BLDG #1 & 2)
A5.2 FUELING STATION EXTERIOR ELEVATIONS
A5.3 DRIVE-THRU EXTERIOR ELEVATIONS (BLDG #3)
A5.4 DRIVE-THRU EXTERIOR ELEVATIONS (BLDG #4)
A5.5 MATERIALS BOARD

DEFERRED SUBMITTALS

- D.A. 0001: FIRE SPRINKLER AND FIRE ALARM SYSTEM: DRAWINGS ARE TO BE SUBMITTED TO CITY. PERMIT TO BE ISSUED PRIOR TO START OF CONSTRUCTION. FIRE SPRINKLER CONTRACTOR TO COORDINATE DEFERRED SUBMITTAL DRAWINGS WITH THE PERMITTED BUILDING PLANS.FIRE SPRINKLER HEAD SHALL BE INSTALLED ABOVE THE SUSPENDED FAN COIL.

- D.A. 0002: SIGNAGE: ALL EXTERIOR SIGNAGES (POLE MOUNT, MONUMENT AND BUILDING MOUNT) LOCATIONS ARE SHOWN ON PLANS. DETAILED PLANS TO BE SUBMITTED FOR CITY REVIEW AND APPROVAL.

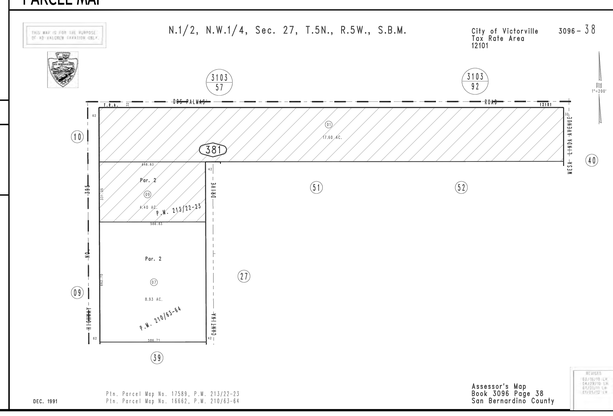
PROJECT DIRECTORY

OWNER:
DOS3SRK INVESTMENT LLC
1102 S. MAIN STREET
CORONA, CA 92882
TEL# : (951) 316-9924
EMAIL: SRK14590@GMAIL.COM
CONTACT: KAUSHIK PATEL

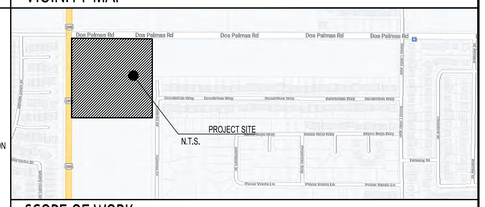
ARCHITECT:
BRAHMBHATT ARCHITECTS, INC
441 E WHITTIER BLVD, SUITE C
LA HABRA, CA 90631
TEL# : (323) 474-8344
EMAIL: SUMIT@BRAHMARCH.COM
CONTACT: SUMIT BRAHMBHATT

CIVIL:
HARIYA INC
LOMA LINDA, CA 92354
INDIO, CA 92203
TEL# : (909) 499-8270
MHARIYA@HARIYAINC.COM
CONTACT: MANOJ HARIYA

PARCEL MAP



VICINITY MAP



SCOPE OF WORK

THE FOLLOWING DESCRIPTION OF WORK IS PROVIDED IN CONJUNCTION WITH ALL OTHER PROVISIONS OF THE CONSTRUCTION AND CONTRACT DOCUMENTS. IT SHALL NOT BE CONSIDERED TO DESCRIBE ALL WORK NECESSARY AS THAT IS ONLY DEFINED BY THE ENTIRETY OF THE DOCUMENTS. THEREFORE THE BID PRESENTED HERE-IN SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING WORK:

PHASE I - LOT A (3.10 ACRES)

1. TWO NEW SINGLE STORY STRUCTURE WHICH WILL HOUSE A 6,234 SQ.FT. RETAIL STORE , A 2,305 SQ.FT. DRY CLEANERS AND A 1862 SQ.FT. RETAIL STORE IN BUILDING 1 AND A 1,820 SQ.FT. SELF SERVE CAR WASH IN BUILDING 2. PARKING PROVIDED AS NOTED ON 1/A1.0
   - A NEW 10' X 21' 3 - 6 CU.YRD TRASH ENCLOSURE .
   - SINGLE AIR AND WATER FILLING STATION
   - 8 (DUAL LOAD) VEHICLE FUEL PUMPING STATION WITH 15' TALL CANOPY.
   - POLE AND MONUMENT SIGNAGE.
   - 24 EV. STATIONS
   - 6 VEHICLE VACUUM STATION

BUILDING 1 FOOTPRINT: 10,633 SQ.FT.
BUILDING 2 FOOTPRINT: 1,820 SQ.FT .

PHASE I - LOT B (1.31 ACRES) & LOT C (.96 ACRES)

1. TWO NEW SINGLE STORY STRUCTURE WHICH WILL HOUSE A 3,528 SQ.FT. DRIVE-THRU RESTAURANT IN BUILDING 3 ON LOT B AND A 2,200 SQ.FT. DRIVE-THRU RESTAURANT IN BUILDING 2 ON LOT C. PARKING PROVIDED AS NOTED ON 1/A1.1
   - A NEW 10' X 21' 3 - 6 CU.YRD TRASH ENCLOSURE FOR EACH DRIVE-THRU RESTAURANT.

BUILDING 3 FOOTPRINT: 3,536 SQ.FT.
BUILDING 4 FOOTPRINT: 2,200 SQ.FT .

PHASE I - LOT D (ON 2.44 ACRES)

1. A NEW (112 ROOM) HOTEL BUILDING AND SITE DEVELOPMENT. HOTEL BUILDING (APPROX. 64,488 SQ.FT.) TO ACCOMMODATE INDOOR POOL, LIQUOR SALE TYPE 21 LIC., BREAKFAST, FITNESS, MEETING ROOM, FOUR STORY BUILDING. A NEW PARKING AREA PROVIDED AS NOTED ON 1/A1.2
   - A NEW 10' X 21' 3 - 6 CU.YRD TRASH ENCLOSURE FOR EACH DRIVE-THRU RESTAURANT.

HOTEL BUILDING FOOTPRINT: 16,344 SQ.FT.

PROPOSED IMPROVEMENTS INCLUDE:

1. NEW PARKING AREA AND CORRESPONDING DRIVEWAYS, LANDSCAPE AREA ETC.
2. ALL SITE WORK NECESSARY TO ACCOMMODATE ALL NEW STRUCTURE(S) PARKING AND LANDSCAPE. DEMOLITION WORK SHALL ALSO REQUIRE ANY INCIDENTAL WORK RELATED TO FINDING MAINTAINING AND OR DEMOLISHING UNDERGROUND UTILITIES OR PORTIONS THEREOF IN ORDER TO ALLOW FOR INSTALLATION OF NEW UTILITIES.
3. THE WORK SHALL INCLUDE ALL TEMPORARY MEASURES, INCLUDING SHORING AND PROTECTION OF EXISTING WORK TO REMAIN AND ACCESS NECESSARY TO INSURE PUBLIC SAFETY.
4. NEW AREAS LANDSCAPE ALL AROUND THE NEW BUILDINGS AND NEW PARKING AREA.
5. NEW IRRIGATION SYSTEM AT ALL NEW LANDSCAPED AREAS
6. OFFSITE CONSTRUCTION PER C.A.P.
7. PROVIDE MONUMENT SIGNAGE AS SHOWN ON PLAN. BUILDING SIGNAGE TO BE DETERMINED

NOTE:
ALL ADJACENT SIDEWALKS AND PARKWAYS OUTSIDE OF THE GAS STATION AND HOTEL ARE SHOWN FOR CLARITY AND ARE IN NO PART OF THIS DEVELOPMENT.

LEGAL DESCRIPTION

APN: 3096-381-01 & 3096-381-09

TRACT/LOT: 01, 09

ZONE: C-1

LOT AREA A: 2.96 ACRES (129,133 SQ.FT.)/LOT AREA B: 1.37 ACRES (61,659.66 SQ.FT.)

LOT AREA C: 1.37 ACRES (59,943 SQ.FT.)/LOT AREA D: 2 ACRES (87,239 SQ.FT.)

LOT AREA E: 2.46 ACRES (107,383 SQ.FT.)

APPLICABLE CODES

ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE CALIFORNIA CODES AND CITY OF ADELANTO MUNICIPAL CODES IN EFFECT AT THE TIME OF BUILDING PERMIT APPLICATION.

- CALIFORNIA ADMINISTRATIVE CODE 2019 EDITION
- CALIFORNIA BUILDING CODE 2019 EDITION
- CALIFORNIA ELECTRICAL CODE 2019 EDITION
- CALIFORNIA PLUMBING CODE 2019 EDITION
- CALIFORNIA MECHANICAL CODE 2019 EDITION
- CALIFORNIA GREEN BUILDING STANDARDS CODE 2019 EDITION
- CALIFORNIA FIRE CODE 2019 EDITION
- NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS (NFPA)
- CITY OF ADELANTO MUNICIPAL CODE 2016 EDITION
- CALIFORNIA HEALTH AND SAFETY CODE 2019 EDITION
- CALIFORNIA ENERGY CODE 2019 EDITION

APPROVAL STAMP:

NO.	DATE	REVISION

BRAHMBHATT ARCHITECTS

STAMP:

LICENSED ARCHITECT SUMIT BRAHMBHATT No. C-32826 exp. 2-25-23 STATE OF CALIFORNIA

CONSULTANT:

CHOICE PROJECT NUMBER :
CAJ13-CAJ14 CSMS
Victorville, CA

APN :
3096-381-01 & 3096-381-09

PROJECT:
DOS PALMAS
DOS3SRK INVESTMENT LLC - Victorville CA.

CLIENT:
DOS3SRK INVESTMENT LLC
1102 S. MAIN STREET
CORONA, CA 92882

DATE:

DRAWN:	CHECKED:
A.T. / O.G. / C.L.	S.B.
SCALE: AS NOTED	PROJECT No.: 20-31

TITLE:
GAS STATION / RETAIL & HOTEL SITE PLAN, PROJECT INFORMATION AND KEY PLAN

SHEET:
T1.0

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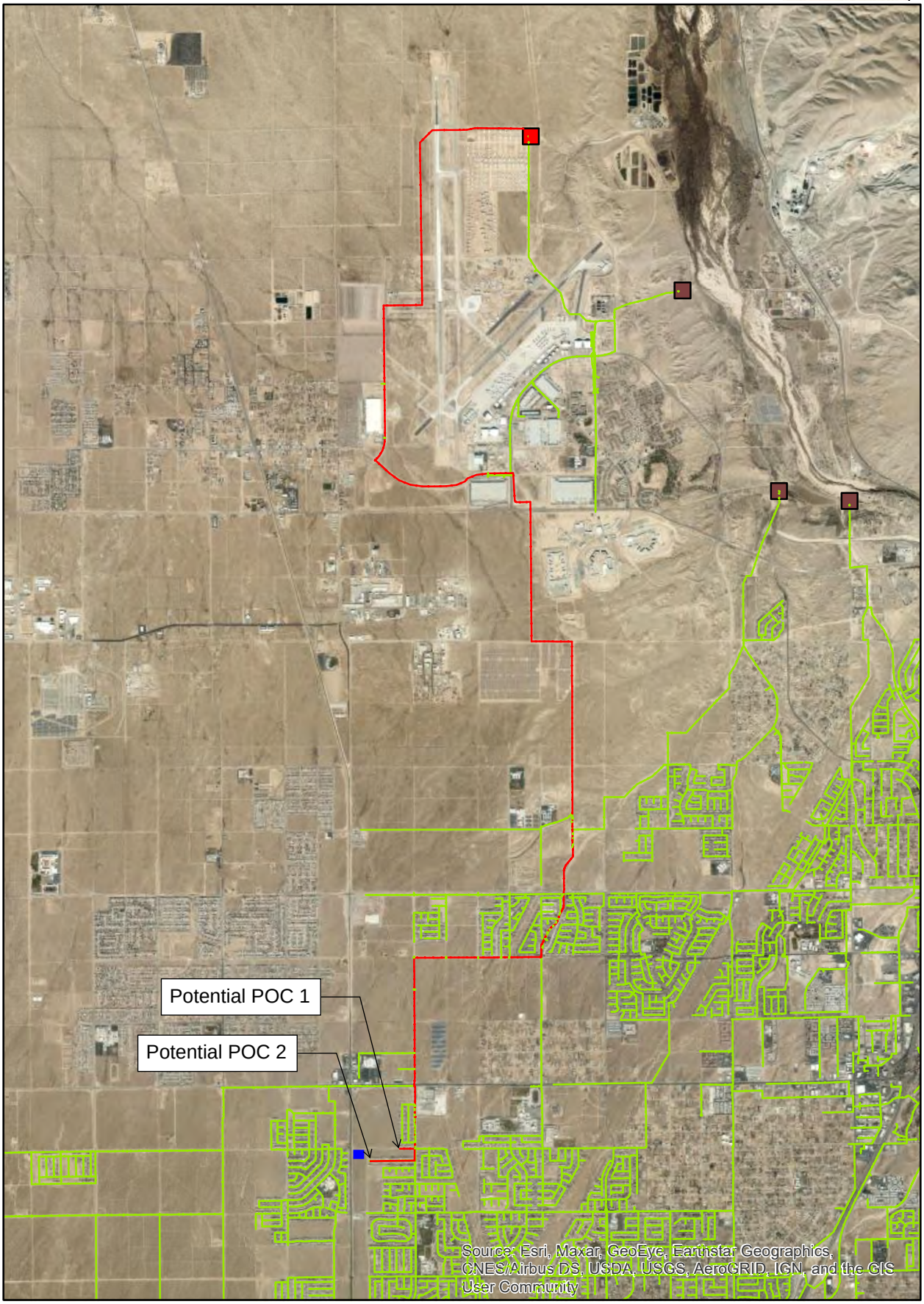
Appendix B
IMPACTED CITY SEWER LOCATIONS AND CONNECTION POINTS

City of Victorville
Dos Palmas Development
Downstream Impacts



Legend

- Outlet
- Other Sewer Mains
- Project
- Impacted Sewer Mains (Main Branch)

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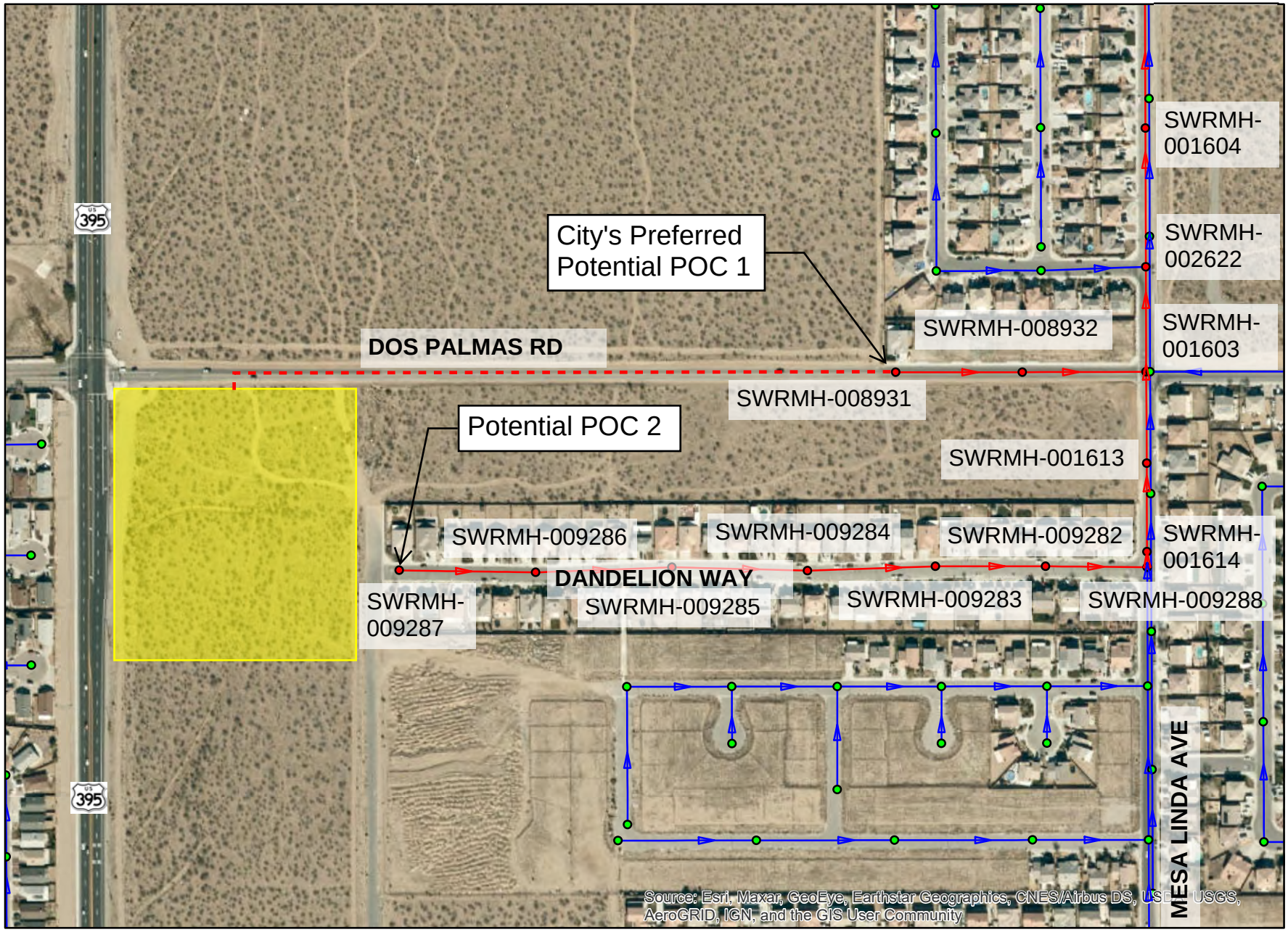
City of Victorville
Dos Palmas Development
Adjacent Sewers



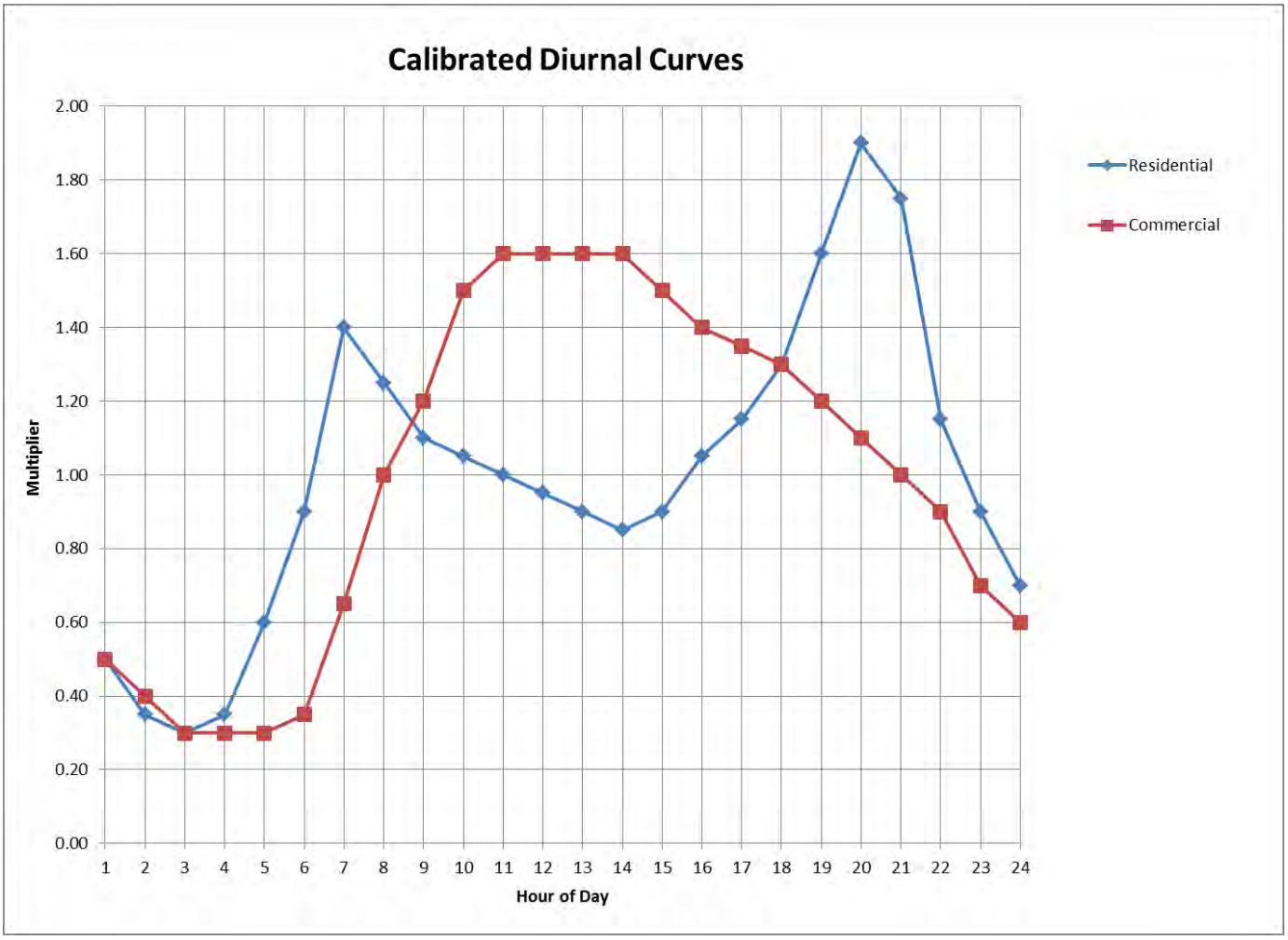
Legend

- Other Manhole
- Impacted Manhole
- Other Sewer Mains
- Impacted Sewer Mains (Main Branch)
- Project
- Preferred Sewer Main Extension

DAVID EVANS AND ASSOCIATES INC.

Appendix C
CITY OF VICTORVILLE SEWER MASTER CAPACITY CRITERIA, PEAKING FACTORS, UNIT FACTORS, AND CIP EXHIBIT

Figure 3-1 Calibrated Diurnal Curves



The residential curve is primarily extracted from the measured flow data at meter site No. 2 with an adjusted and higher peaking factor of 1.9 at about 8 pm to account for flow attenuation effect that was embedded in the measured flow data. The commercial curve was initially developed from the metering data for other projects and was adjusted during the model calibration to better match the observed flow hydrographs.

Table 3-3 summarizes the calibration results. Figures 3-2 through 3-6 show the comparison of the model results and the field measurement for each site graphically.

Overall, the calibrated model was able to predict average flow and peak flow at the five outfalls within 10% and peak d/D ratios within 0.1. The possible causes for the variances of the model results include uncertainty about invert elevations in the original GIS, instrument errors associated with the metering equipment and the underlying assumptions in the model software.

3.3 Capacity Criteria

Criteria were established to determine adequacy of existing sewers and to size new sewers in terms of their hydraulic capacity while minimizing the likelihood of a sewer overflow. The hydraulic capacity criteria were developed based on maximum depth to diameter (d/D) ratios under dry weather flow (DWF) conditions in the calibrated hydraulic model.

For identifying deficiency of existing sewers, the maximum allowable d/D ratio to convey peak dry weather flow (PDWF) was set to 0.75 for all sizes of sewers. The deficiency criteria of triggering the need for a project often differ from the criteria for sizing new sewers, which are typically more conservative.

For sizing new proposed sewers, a maximum allowable d/D ratio of 0.5 was applied to 12-inch and smaller sizes and a d/D ratio of 0.65 was used for 15-inch and larger sizes. They are consistent with the typical sewer sizing criteria published by agencies in the region. A lower d/D threshold is typically applied to smaller pipes because they are more likely to experience greater variations in PDWF and blockages due to debris, etc. The remaining capacity of the proposed sewers is reserved for potential infiltration and inflow during rain events.

Table 3-4 summarizes the criteria that were used for evaluating capacity of the sewers in this Master Plan. Although the existing sewers with a d/D ratio between 0.5 and 0.75 were not identified as deficient and recommended for upsizing, future continuing monitoring of these sewers is recommended.

Table 3-4 Sewer Capacity Criteria

Purpose	Pipe Size	Maximum Allowable d/D
Identifying Deficiency of Existing Sewer under PDWF	Any size	0.75
Sizing of Proposed Sewers under PDWF	12-inch and smaller[1]	Between 0.5 and 0.65
	15-inch and larger[2]	Between 0.65 and 0.75

Notes:

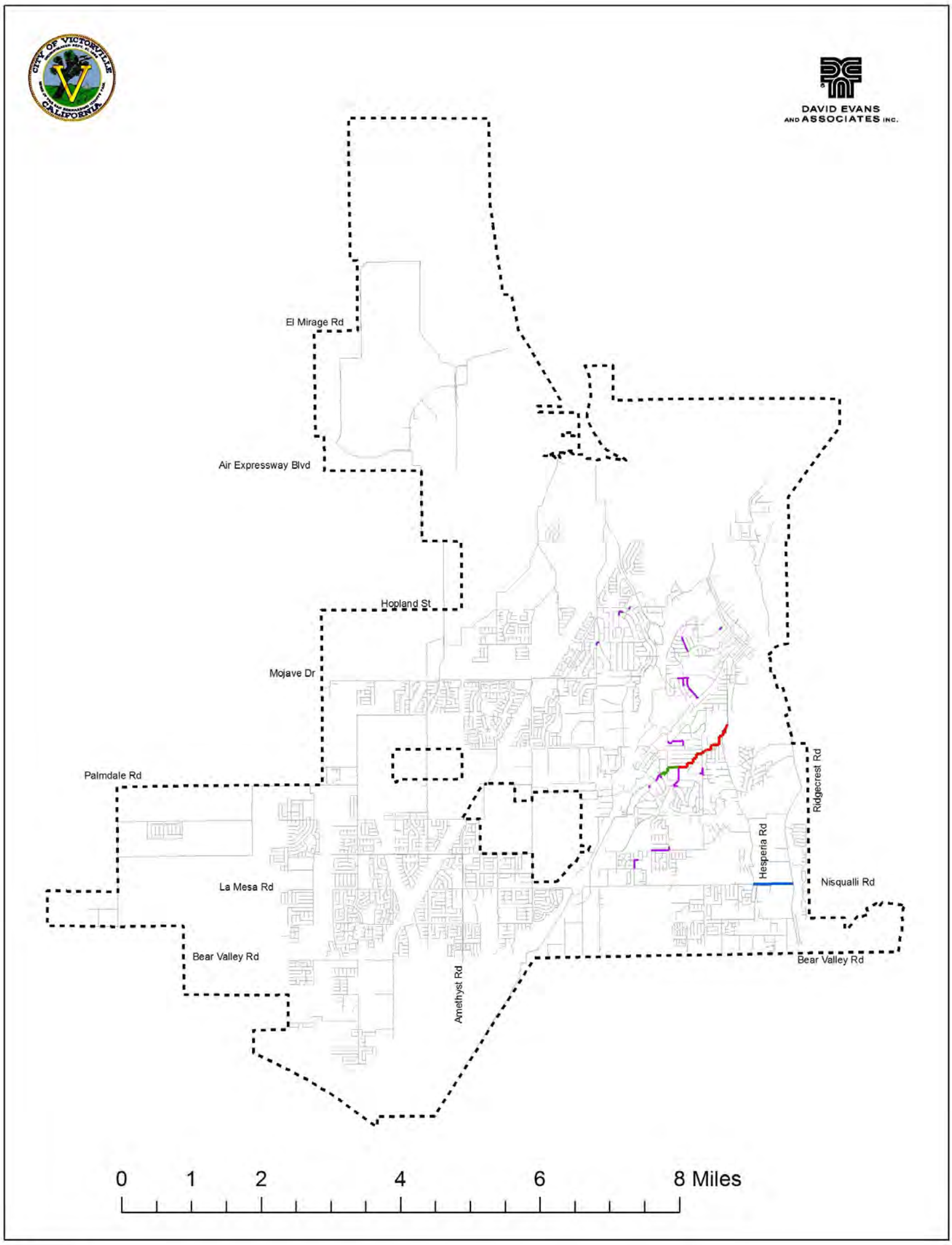
1. At a d/D of 0.5, the remaining capacity of circular pipes is 50%. In some areas where the slope of existing sewers is relatively flat, the threshold was relaxed to allow d/D up to 0.65 in lieu of recommending a larger size for the entire project.
2. At a d/D of 0.65, the remaining capacity of circular pipes is about 25%. In some areas where the slope of existing sewers is relatively flat, the threshold was relaxed to allow d/D up to 0.75 in lieu of recommending a larger size for the entire project.

Table 2-4 shows the final calibrated per-acre unit flow factors for the various land use categories and the resultant per-dwelling-unit and per-thousand-square-foot unit factors for residential and non-residential land uses respectively. According to Table 1-3 in Chapter 1, the average household size is 3.63 persons in 2015. In addition, as shown in Table 1-2, Low Density Residential accounts for over 75% of City's residential uses. Based on the calibrated unit flow factor for low density residential (260 gpd/du) and the average household size of 3.63 persons, the estimated average per capital wastewater flow is about 72 gpd/capita.

Table 2-4 Calibrated Unit Flow Factors

Land Use Category	Descriptions	gpd/ac	Average FAR per GIS	gpd/tsf	Median Housing Density per GP (DU/ac)	gpd/DU
Very Low Density Residential	single-family detached homes	600	n/a	n/a	2	300
Low Density Residential	single-family detached homes	1,300	n/a	n/a	5	260
Mix Density Residential	single family detached or multi-family attached for infill development,	1,600	n/a	n/a	8	200
Medium Density Residential	attached townhomes	1,800	n/a	n/a	10	180
High Density Residential	apartments	2,400	n/a	n/a	16	150
Mixed Use	multi-family and commercial	6,000	n/a	n/a	40	150
Commercial	retail commercial, service commercial, etc.	2,000	0.40	115	n/a	n/a
Office Professional	offices	800	0.40	46	n/a	n/a
Light Industrial	warehouses and wholesale activities	800	0.40	46	n/a	n/a
Heavy Industrial	manufacturing activities	1,600	0.40	92	n/a	n/a
Specific Plan	primarily residential development with some non-residential development	1,600	n/a	n/a	varies	n/a
Institutional	schools, city and county buildings	600	n/a	n/a	n/a	n/a
Open Space	easements, parks, golf courses, , etc.	0	n/a	n/a	n/a	n/a

Figure 6-1 Recommended Capital Improvement Project Locations (Existing Conditions)



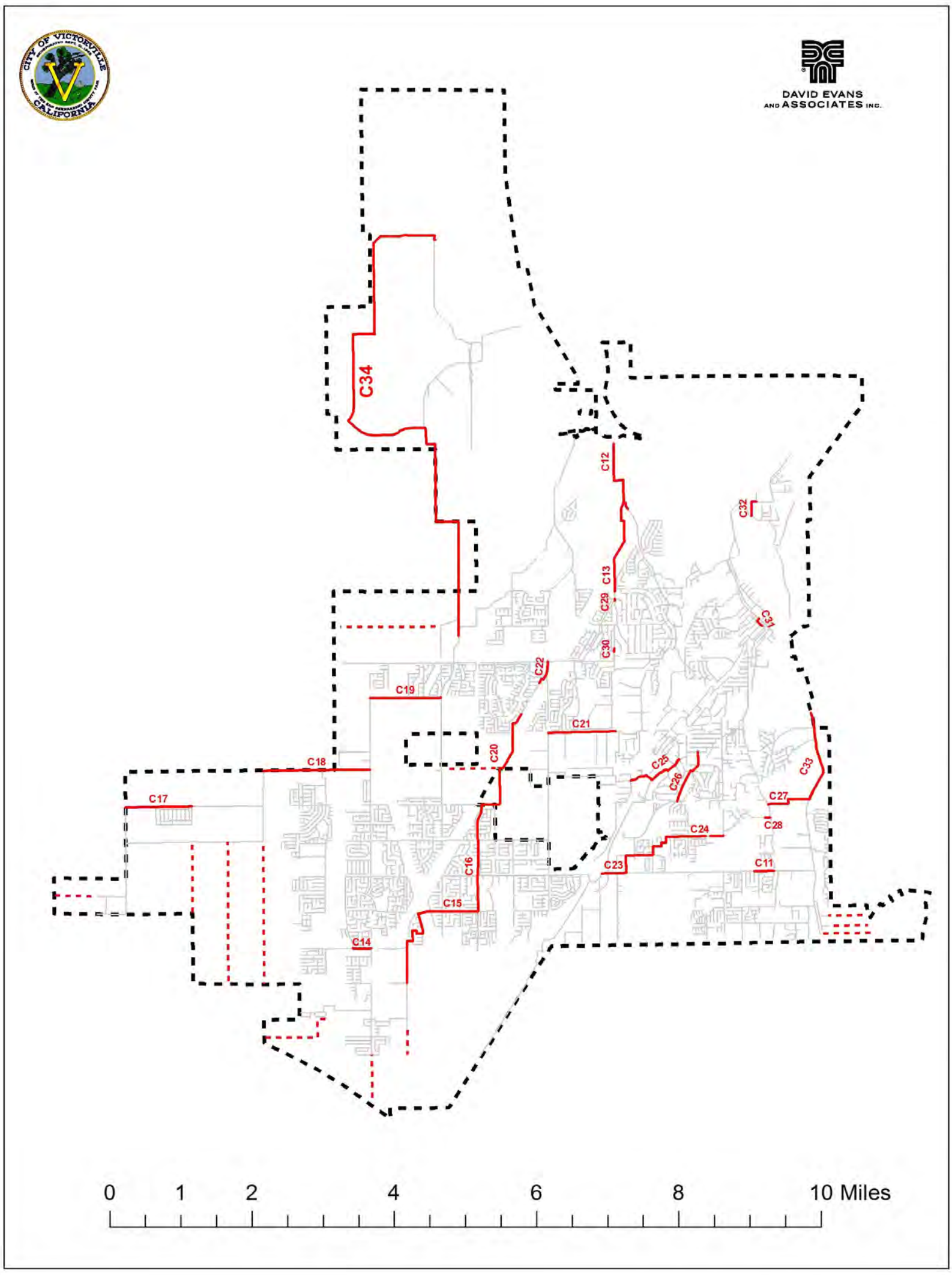
Legend

Recommended Capacity Improvement CIP (Existing Condition)

- C1
- C2
- C3
- Structural Rehabilitation CIP_Optimized
- Other City Sewer
- VICTORVILLE_CITY_BOUNDARY

N W E S

Figure 6-3 Recommended Capacity Improvement Project Locations (2040 Conditions - Scenario 1)



Legend

- Recommended Capacity Improvement CIP (2040)
- Projected Extension Sewer
- Other City Sewer
- VICTORVILLE_CITY_BOUNDARY

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Appendix D
CAPACITY ANALYSIS RESULTS

Downstream Dos Palmas Run Existing 2015 (Dos Palmas Rd)											
Pipe ID	U/S MH ID	D/S MH ID	Size (inch)	Length (ft)	Slope (ft/ft)	2016 SMP Existing 2015 Peak Flow in Model (mgd)	2016 SMP Existing 2015 Maximum d/D	With Dos Palmas Project Peak Flow (mgd)	With Dos Palmas Project Maximum d/D	d/D Criteria	Remark
SWRGM-001876	SWRMH-007112	SWRMH-007113	27	88	0.0217	1.970	0.19	1.970	0.19	0.75	PASS
SWRGM-001997	SWRMH-007246	SWRMH-007112	27	141	0.0166	1.967	0.20	1.967	0.20	0.75	PASS
SWRGM-007541	SWRMH-000876	SWRMH-000877	27	228	0.024	2.384	0.20	2.384	0.20	0.75	PASS
SWRGM-007543	SWRMH-000298	SWRMH-000297	27	12	0.0078	2.384	0.27	2.384	0.27	0.75	PASS
SWRGM-007545	SWRMH-008217	SWRMH-000298	27	49	0.0112	2.384	0.24	2.384	0.24	0.75	PASS
SWRGM-007547	SWRMH-000297	SWRMH-000296	27	33	0.0039	2.384	0.32	2.384	0.32	0.75	PASS
SWRGM-007779	SWRMH-006991	SWRMH-006990	24	306	0.0126	1.574	0.22	1.574	0.22	0.75	PASS
SWRGM-007780	SWRMH-009063	SWRMH-006991	24	350	0.0124	1.574	0.23	1.574	0.23	0.75	PASS
SWRGM-007781	SWRMH-007639	SWRMH-007638	24	225	0.012	1.632	0.23	1.632	0.23	0.75	PASS
SWRGM-007782	SWRMH-007641	SWRMH-007640	24	350	0.0123	1.632	0.23	1.632	0.23	0.75	PASS
SWRGM-007783	SWRMH-006990	SWRMH-007641	24	393	0.0123	1.632	0.23	1.632	0.23	0.75	PASS
SWRGM-007785	SWRMH-007000	SWRMH-006996	24	202	0.0124	1.632	0.23	1.632	0.23	0.75	PASS
SWRGM-007786	SWRMH-007638	SWRMH-006999	24	474	0.0127	1.632	0.23	1.632	0.23	0.75	PASS
SWRGM-007787	SWRMH-006996	SWRMH-006995	24	350	0.0126	1.632	0.23	1.632	0.23	0.75	PASS
SWRGM-007788	SWRMH-006999	SWRMH-006998	24	350	0.0123	1.632	0.23	1.632	0.23	0.75	PASS
SWRGM-007789	SWRMH-006998	SWRMH-006997	24	250	0.0122	1.632	0.23	1.632	0.23	0.75	PASS
SWRGM-007790	SWRMH-006997	SWRMH-007000	24	248	0.0119	1.632	0.23	1.632	0.23	0.75	PASS
SWRGM-007791	SWRMH-002569	SWRMH-002570	24	280	0.0068	1.632	0.27	1.632	0.27	0.75	PASS
SWRGM-007792	SWRMH-002570	SWRMH-002571	24	350	0.0069	1.632	0.27	1.632	0.27	0.75	PASS
SWRGM-007793	SWRMH-002571	SWRMH-002572	24	350	0.0069	1.632	0.27	1.632	0.27	0.75	PASS
SWRGM-007794	SWRMH-002572	SWRMH-001626	24	350	0.0068	1.632	0.27	1.632	0.27	0.75	PASS
SWRGM-007795	SWRMH-001626	SWRMH-001627	24	350	0.0034	1.632	0.32	1.632	0.32	0.75	PASS
SWRGM-007796	SWRMH-001627	SWRMH-001628	24	350	0.0034	1.632	0.32	1.632	0.32	0.75	PASS
SWRGM-007797	SWRMH-006995	SWRMH-001629	24	385	0.0114	1.632	0.23	1.632	0.23	0.75	PASS
SWRGM-007798	SWRMH-001628	SWRMH-006609	24	350	0.0034	1.632	0.32	1.632	0.32	0.75	PASS
SWRGM-007799	SWRMH-001629	SWRMH-002569	24	385	0.0114	1.632	0.23	1.632	0.23	0.75	PASS
SWRGM-007936	SWRMH-001603	SWRMH-002622	18	266	0.0145	0.780	0.22	0.780	0.22	0.75	PASS
SWRGM-007937	SWRMH-002622	SWRMH-001604	18	352	0.0137	0.785	0.23	0.785	0.23	0.75	PASS
SWRGM-008193	SWRMH-006601	SWRNJ-000204	24	364	0.0214	1.635	0.20	1.635	0.20	0.75	PASS
SWRGM-008194	SWRMH-006602	SWRMH-006601	24	400	0.0258	1.635	0.19	1.635	0.19	0.75	PASS
SWRGM-008195	SWRMH-006604	SWRMH-006603	24	186	0.0027	1.635	0.34	1.635	0.34	0.75	PASS
SWRGM-008196	SWRMH-006607	SWRMH-006606	24	246	0.0033	1.633	0.32	1.633	0.32	0.75	PASS
SWRGM-008197	SWRMH-008210	SWRMH-007919	27	264	0.0095	2.384	0.25	2.384	0.25	0.75	PASS
SWRGM-008201	SWRMH-008204	SWRMH-008208	27	470	0.0087	1.974	0.24	1.975	0.24	0.75	PASS
SWRGM-008253	SWRMH-006609	SWRMH-006608	24	281	0.0032	1.632	0.32	1.632	0.32	0.75	PASS
SWRGM-008391	SWRMH-008226	SWRMH-008225	27	120	0.0173	2.384	0.22	2.384	0.22	0.75	PASS
SWRGM-008392	SWRMH-008225	SWRMH-008224	27	122	0.0171	2.384	0.22	2.384	0.22	0.75	PASS
SWRGM-008483	SWRMH-001602	SWRMH-001625	18	364	0.0168	0.865	0.23	0.865	0.23	0.75	PASS
SWRGM-008541	SWRMH-000877	SWRMH-008216	27	71	0.0091	2.384	0.26	2.384	0.26	0.75	PASS
SWRGM-008558	SWRMH-007134	SWRMH-007245	27	134	0.0095	1.967	0.23	1.967	0.23	0.75	PASS
SWRGM-008559	SWRMH-007251	SWRMH-007250	27	224	0.005	1.972	0.27	1.972	0.27	0.75	PASS
SWRGM-008560	SWRMH-007252	SWRMH-007251	27	114	0.0242	1.972	0.18	1.972	0.18	0.75	PASS
SWRGM-008561	SWRMH-008205	SWRMH-007252	27	115	0.0167	1.972	0.20	1.972	0.20	0.75	PASS
SWRGM-008562	SWRMH-007248	SWRMH-008204	27	83	0.0048	1.973	0.27	1.973	0.30	0.75	PASS
SWRGM-008564	SWRMH-008208	SWRMH-008210	27	212	0.0094	2.384	0.25	2.384	0.25	0.75	PASS
SWRGM-008565	SWRMH-007919	SWRMH-007918	27	260	0.0098	2.384	0.25	2.384	0.25	0.75	PASS
SWRGM-008570	SWRMH-007918	SWRMH-008226	27	262	0.0166	2.384	0.22	2.384	0.22	0.75	PASS
SWRGM-008600	SWRMH-008224	SWRMH-000876	27	201	0.0282	2.384	0.19	2.384	0.19	0.75	PASS
SWRGM-008609	SWRMH-001604	SWRMH-001602	18	342	0.015	0.786	0.22	0.786	0.22	0.75	PASS
SWRGM-008621	SWRMH-007113	SWRMH-007118	27	353	0.0083	1.970	0.24	1.970	0.24	0.75	PASS
SWRGM-008622	SWRMH-007118	SWRMH-007117	27	159	0.008	1.971	0.24	1.971	0.24	0.75	PASS
SWRGM-008623	SWRMH-007117	SWRMH-007116	27	152	0.0084	1.972	0.24	1.972	0.24	0.75	PASS
SWRGM-008624	SWRMH-007116	SWRMH-008205	27	163	0.015	1.972	0.21	1.972	0.21	0.75	PASS
SWRGM-008626	SWRMH-007245	SWRMH-007246	27	350	0.0099	1.967	0.23	1.967	0.23	0.75	PASS
SWRGM-008698	SWRMH-001625	SWRMH-001624	18	382	0.0015	0.865	0.43	0.865	0.43	0.75	PASS
SWRGM-008702	SWRMH-001616	SWRMH-009063	24	350	0.0111	1.574	0.23	1.574	0.23	0.75	PASS
SWRGM-008703	SWRMH-001621	SWRMH-001618	18	44	0.0088	0.890	0.27	0.890	0.27	0.75	PASS
SWRGM-008704	SWRMH-001618	SWRMH-001617	24	94	0.0107	1.574	0.23	1.574	0.23	0.75	PASS
SWRGM-008705	SWRMH-001622	SWRMH-001621	18	400	0.0129	0.890	0.25	0.890	0.25	0.75	PASS
SWRGM-008706	SWRMH-001623	SWRMH-001622	18	388	0.0116	0.890	0.25	0.890	0.25	0.75	PASS
SWRGM-008707	SWRMH-001624	SWRMH-001623	18	74	0.0108	0.865	0.25	0.865	0.25	0.75	PASS
SWRGM-008708	SWRMH-001617	SWRMH-001616	24	253	0.0111	1.574	0.23	1.574	0.23	0.75	PASS
SWRGM-008709	SWRMH-007640	SWRMH-007639	24	350	0.0126	1.632	0.23	1.632	0.23	0.75	PASS
SWRGM-008714	SWRMH-007249	SWRMH-007248	27	81	0.0048	1.973	0.27	1.973	0.27	0.75	PASS
SWRGM-008715	SWRMH-007247	SWRMH-007249	27	117	0.0048	1.973	0.27	1.973	0.27	0.75	PASS
SWRGM-008716	SWRMH-007250	SWRMH-007247	27	144	0.0049	1.972	0.27	1.972	0.27	0.75	PASS
SWRGM-008742	SWRMH-006608	SWRMH-006607	24	449	0.0207	1.632	0.20	1.632	0.20	0.75	PASS
SWRGM-008748	SWRMH-006606	SWRMH-006605	24	265	0.0034	1.633	0.32	1.633	0.32	0.75	PASS
SWRGM-008749	SWRMH-006605	SWRMH-006604	24	336	0.0036	1.635	0.32	1.635	0.32	0.75	PASS

SWRGM-008750	SWRMH-006603	SWRMH-006602	24	350	0.0094	1.635	0.25	1.635	0.25	0.75	PASS
SWRGM-008778	SWRNJ-000111	SWRMH-001625	18	10	0.008	0.000	0.00	0.000	0.00	0.75	PASS
SWRGM-009262	SWRMH-008216	SWRMH-008217	27	295	0.0076	2.384	0.27	2.384	0.27	0.75	PASS
SWRGM-009336	SWRNJ-000204	SWRMH-007134	30	31	0.0065	1.635	0.20	1.635	0.20	0.75	PASS
SWRGM-009442	SWRFT-000032	SWRMH-008686	12	10	0	0.000	0.00	0.000	0.00	0.75	PASS
SWRGM-009448	SWRMH-008698	SWRMH-008697	27	497	0.0017	2.383	0.40	2.383	0.40	0.75	PASS
SWRGM-009450	SWRMH-008701	SWRMH-008700	27	809	0.0012	2.383	0.44	2.383	0.44	0.75	PASS
SWRGM-009453	SWRMH-008800	SWRMH-008798	27	500	0.0035	2.383	0.33	2.383	0.33	0.75	PASS
SWRGM-009454	SWRMH-008802	SWRMH-008800	27	500	0.0035	2.383	0.33	2.383	0.33	0.75	PASS
SWRGM-009469	SWRMH-008792	SWRMH-008790	27	500	0.0053	2.383	0.29	2.383	0.29	0.75	PASS
SWRGM-009473	SWRMH-008697	SWRMH-008696	27	401	0.0028	2.383	0.35	2.383	0.35	0.75	PASS
SWRGM-009481	SWRMH-008688	SWRMH-008687	27	397	0.0023	2.383	0.37	2.383	0.37	0.75	PASS
SWRGM-009493	SWRMH-008629	SWRMH-008628	27	500	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009503	SWRMH-009300	SWRMH-009299	27	405	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009510	SWRMH-009289	SWRMH-008645	27	438	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009512	SWRMH-008778	SWRMH-008776	27	500	0.002	2.383	0.38	2.383	0.38	0.75	PASS
SWRGM-009518	SWRMH-008632	SWRMH-008631	27	314	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009520	SWRMH-008788	SWRMH-008785	27	300	0.002	2.383	0.38	2.383	0.38	0.75	PASS
SWRGM-009524	SWRMH-008739	SWRMH-008737	27	250	0.0014	2.382	0.42	2.382	0.42	0.75	PASS
SWRGM-009526	SWRMH-008767	SWRMH-008765	27	500	0.0072	2.383	0.27	2.383	0.27	0.75	PASS
SWRGM-009538	SWRFT-000031	SWRMH-008686	12	10	0	0.000	0.00	0.000	0.00	0.75	PASS
SWRGM-009545	SWRMH-008931	SWRMH-008932	8	321	0.005	0.000	0.02	0.000	0.02	0.75	PASS
SWRGM-009552	SWRMH-008751	SWRMH-008749	27	358	0.0015	2.383	0.41	2.383	0.41	0.75	PASS
SWRGM-009554	SWRMH-008810	SWRMH-008808	27	512	0.0031	2.383	0.34	2.383	0.34	0.75	PASS
SWRGM-009568	SWRMH-008638	SWRMH-008639	27	351	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009571	SWRMH-008644	SWRMH-008643	27	438	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009572	SWRMH-008794	SWRMH-008792	27	500	0.0054	2.383	0.29	2.383	0.29	0.75	PASS
SWRGM-009576	SWRMH-008703	SWRMH-008702	27	82	0.0022	2.383	0.37	2.383	0.37	0.75	PASS
SWRGM-009592	SWRMH-008747	SWRMH-008745	27	600	0.0015	2.383	0.41	2.383	0.41	0.75	PASS
SWRGM-009597	SWRMH-008796	SWRMH-008794	27	500	0.0035	2.383	0.33	2.383	0.33	0.75	PASS
SWRGM-009612	SWRMH-008780	SWRMH-008778	27	381	0.002	2.383	0.38	2.383	0.38	0.75	PASS
SWRGM-009627	SWRMH-008765	SWRMH-008763	27	500	0.0072	2.383	0.27	2.383	0.27	0.75	PASS
SWRGM-009635	SWRMH-008702	SWRMH-008701	27	430	0.0023	2.383	0.37	2.383	0.37	0.75	PASS
SWRGM-009647	SWRMH-009292	SWRMH-009291	27	442	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009654	SWRMH-008755	SWRMH-008753	27	500	0.0015	2.383	0.41	2.383	0.41	0.75	PASS
SWRGM-009656	SWRMH-008700	SWRMH-008699	27	433	0.0021	2.383	0.37	2.383	0.37	0.75	PASS
SWRGM-009663	SWRMH-008776	SWRMH-008773	27	500	0.002	2.383	0.38	2.383	0.38	0.75	PASS
SWRGM-009668	SWRMH-009293	SWRMH-009292	27	320	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009680	SWRMH-009297	SWRMH-009296	27	438	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009681	SWRMH-008689	SWRMH-008688	27	500	0.0023	2.383	0.37	2.383	0.37	0.75	PASS
SWRGM-009684	SWRMH-009298	SWRMH-009297	27	438	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009688	SWRMH-008815	SWRMH-008813	27	250	0.0034	2.383	0.33	2.383	0.33	0.75	PASS
SWRGM-009689	SWRMH-008692	SWRMH-008691	27	500	0.0023	2.383	0.37	2.383	0.37	0.75	PASS
SWRGM-009702	SWRMH-008690	SWRMH-008689	27	500	0.0023	2.383	0.37	2.383	0.37	0.75	PASS
SWRGM-009707	SWRMH-008704	SWRMH-008703	27	284	0.003	2.383	0.34	2.383	0.34	0.75	PASS
SWRGM-009723	SWRMH-008757	SWRMH-008755	27	500	0.0022	2.383	0.37	2.383	0.37	0.75	PASS
SWRGM-009725	SWRMH-008642	SWRMH-008641	27	397	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009743	SWRMH-008806	SWRMH-008804	27	439	0.0035	2.383	0.33	2.383	0.33	0.75	PASS
SWRGM-009744	SWRMH-008687	SWRMH-008686	27	397	0.0031	2.383	0.34	2.383	0.34	0.75	PASS
SWRGM-009759	SWRMH-008631	SWRMH-008630	27	309	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009760	SWRMH-008808	SWRMH-008806	27	401	0.0039	2.383	0.32	2.383	0.32	0.75	PASS
SWRGM-009767	SWRMH-008639	SWRMH-008634	27	504	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009793	SWRMH-008749	SWRMH-008747	27	358	0.0015	2.383	0.41	2.383	0.41	0.75	PASS
SWRGM-009798	SWRMH-008637	SWRMH-008638	27	351	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009801	SWRMH-008686	SWRMH-008817	27	250	0.0034	2.383	0.33	2.383	0.33	0.75	PASS
SWRGM-009808	SWRMH-008633	SWRMH-008632	27	560	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009813	SWRMH-009290	SWRMH-009289	27	442	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009834	SWRMH-008693	SWRMH-008692	27	500	0.0023	2.383	0.37	2.383	0.37	0.75	PASS
SWRGM-009847	SWRMH-009299	SWRMH-009298	27	438	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009850	SWRMH-009294	SWRMH-009293	27	500	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009866	SWRMH-008769	SWRMH-008767	27	500	0.0072	2.383	0.27	2.383	0.27	0.75	PASS
SWRGM-009867	SWRMH-009296	SWRMH-009295	27	438	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009885	SWRMH-008630	SWRMH-008629	27	500	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009890	SWRMH-008781	SWRMH-008780	27	499	0.002	2.383	0.38	2.383	0.38	0.75	PASS
SWRGM-009895	SWRMH-008691	SWRMH-008690	27	500	0.0023	2.383	0.37	2.383	0.37	0.75	PASS
SWRGM-009902	SWRMH-008627	SWRMH-008626	27	500	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009914	SWRMH-008640	SWRMH-008635	27	311	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009919	SWRMH-008623	SWRMH-008704	27	306	0.0036	2.383	0.32	2.383	0.32	0.75	PASS
SWRGM-009924	SWRMH-008763	SWRMH-008761	27	500	0.0072	2.383	0.27	2.383	0.27	0.75	PASS
SWRGM-009932	SWRMH-008798	SWRMH-008796	27	476	0.0045	2.383	0.31	2.383	0.31	0.75	PASS
SWRGM-009942	SWRMH-008645	SWRMH-008644	27	438	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009946	SWRMH-008804	SWRMH-008802	27	440	0.0035	2.383	0.33	2.383	0.33	0.75	PASS
SWRGM-009952	SWRMH-008735	SWRMH-008733	27	500	0.0015	2.382	0.41	2.382	0.41	0.75	PASS
SWRGM-009961	SWRMH-008699	SWRMH-008698	27	519	0.0017	2.383	0.40	2.383	0.40	0.75	PASS
SWRGM-009971	SWRMH-008817	SWRMH-008815	27	250	0.0034	2.383	0.33	2.383	0.33	0.75	PASS
SWRGM-009982	SWRMH-009295	SWRMH-009294	27	496	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009985	SWRMH-008628	SWRMH-008627	27	500	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009998	SWRMH-008771	SWRMH-008769	27	500	0.002	2.383	0.38	2.383	0.38	0.75	PASS
SWRGM-009999	SWRMH-008753	SWRMH-008751	27	499	0.0015	2.383	0.41	2.383	0.41	0.75	PASS
SWRGM-010023	SWRMH-009303	SWRMH-009302	27	375	0.0021	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-010051	SWRMH-008643	SWRMH-008642	27	397	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-010063	SWRMH-008745	SWRMH-008743	27	580	0.0015	2.382	0.41	2.382	0.41	0.75	PASS
SWRGM-010078	SWRMH-008743	SWRMH-008741	27	261	0.0015	2.382	0.41	2.382	0.41	0.75	PASS
SWRGM-010086	SWRMH-008636	SWRMH-008637	27	351	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-010094	SWRMH-008759	SWRMH-008757	27	500	0.0071	2.383	0.27	2.383	0.27	0.75	PASS
SWRGM-010102	SWRMH-008694	SWRMH-008693	27	423	0.0027	2.383	0.35	2.383	0.35	0.75	PASS
SWRGM-010105	SWRMH-008634	SWRMH-008633	27	504	0.002	2.384	0.38	2.384	0.38	0.75	PASS

SWRGM-010113	SWRMH-008731	SWRMH-008729	27	500	0.0015	2.382	0.41	2.382	0.41	0.75	PASS
SWRGM-010122	SWRMH-008761	SWRMH-008759	27	388	0.0072	2.383	0.27	2.383	0.27	0.75	PASS
SWRGM-010125	SWRMH-009291	SWRMH-009290	27	442	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-010130	SWRMH-008626	SWRMH-008625	27	500	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-010132	SWRMH-008741	SWRMH-008739	27	350	0.0015	2.382	0.41	2.382	0.41	0.75	PASS
SWRGM-010141	SWRMH-008695	SWRMH-008694	27	381	0.003	2.383	0.34	2.383	0.34	0.75	PASS
SWRGM-010155	SWRMH-008785	SWRMH-008783	27	300	0.002	2.383	0.38	2.383	0.38	0.75	PASS
SWRGM-010159	SWRMH-008624	SWRMH-008623	27	588	0.0038	2.383	0.32	2.384	0.32	0.75	PASS
SWRGM-010163	SWRMH-008783	SWRMH-008781	27	500	0.002	2.383	0.38	2.383	0.38	0.75	PASS
SWRGM-010165	SWRMH-008729	SWRMH-008727	27	314	0.0015	2.382	0.41	2.382	0.41	0.75	PASS
SWRGM-010174	SWRMH-008773	SWRMH-008771	27	470	0.002	2.383	0.38	2.383	0.38	0.75	PASS
SWRGM-010183	SWRMH-008733	SWRMH-008731	27	500	0.0015	2.382	0.41	2.382	0.41	0.75	PASS
SWRGM-010198	SWRMH-008932	SWRMH-001603	8	314	0.0074	0.000	0.02	0.000	0.02	0.75	PASS
SWRGM-010200	SWRMH-008625	SWRMH-008624	27	500	0.0036	2.383	0.33	2.384	0.33	0.75	PASS
SWRGM-010201	SWRMH-008727	SWRNJ-000196	27	73	0.0027	2.491	0.36	2.491	0.36	0.75	PASS
SWRGM-010226	SWRMH-008813	SWRMH-008811	27	287	0.0035	2.383	0.33	2.383	0.33	0.75	PASS
SWRGM-010231	SWRMH-008696	SWRMH-008695	27	163	0.005	2.383	0.30	2.383	0.30	0.75	PASS
SWRGM-010232	SWRMH-009301	SWRMH-009300	27	236	0.0019	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-010252	SWRMH-008635	SWRMH-008636	27	311	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-010256	SWRMH-000296	SWRMH-009303	27	314	0.0032	2.384	0.33	2.384	0.33	0.75	PASS
SWRGM-010258	SWRMH-008790	SWRMH-008788	27	275	0.002	2.383	0.38	2.383	0.38	0.75	PASS
SWRGM-010263	SWRMH-008641	SWRMH-008640	27	397	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-010266	SWRMH-008737	SWRMH-008735	27	500	0.0015	2.382	0.41	2.382	0.41	0.75	PASS
SWRGM-010277	SWRMH-008811	SWRMH-008810	27	446	0.0035	2.383	0.33	2.383	0.33	0.75	PASS
SWRGM-010285	SWRMH-009302	SWRMH-009301	27	241	0.0019	2.384	0.38	2.384	0.38	0.75	PASS

Downstream Dos Palmas Run Existing 2015 (Dandelion Way)											
Pipe ID	U/S MH ID	D/S MH ID	Size (inch)	Length (ft)	Slope (ft/ft)	2016 SMP Existing 2015 Peak Flow in Model (mgd)	2016 SMP Existing 2015 Maximum d/D	With Dos Palmas Project Peak Flow (mgd)	With Dos Palmas Project Maximum d/D	d/D Criteria	Remark
SWRGM-001876	SWRMH-007112	SWRMH-007113	27	88	0.0217	1.970	0.19	1.970	0.19	0.75	PASS
SWRGM-001997	SWRMH-007246	SWRMH-007112	27	141	0.0166	1.967	0.20	1.967	0.20	0.75	PASS
SWRGM-007541	SWRMH-000876	SWRMH-000877	27	228	0.024	2.384	0.20	2.384	0.20	0.75	PASS
SWRGM-007543	SWRMH-000298	SWRMH-000297	27	12	0.0078	2.384	0.27	2.384	0.27	0.75	PASS
SWRGM-007545	SWRMH-008217	SWRMH-000298	27	49	0.0112	2.384	0.24	2.384	0.24	0.75	PASS
SWRGM-007547	SWRMH-000297	SWRMH-000296	27	33	0.0039	2.384	0.32	2.384	0.32	0.75	PASS
SWRGM-007779	SWRMH-006991	SWRMH-006990	24	306	0.0126	1.574	0.22	1.574	0.22	0.75	PASS
SWRGM-007780	SWRMH-009063	SWRMH-006991	24	350	0.0124	1.574	0.23	1.574	0.23	0.75	PASS
SWRGM-007781	SWRMH-007639	SWRMH-007638	24	225	0.012	1.632	0.23	1.632	0.23	0.75	PASS
SWRGM-007782	SWRMH-007641	SWRMH-007640	24	350	0.0123	1.632	0.23	1.632	0.23	0.75	PASS
SWRGM-007783	SWRMH-006990	SWRMH-007641	24	393	0.0123	1.632	0.23	1.632	0.23	0.75	PASS
SWRGM-007785	SWRMH-007000	SWRMH-006996	24	202	0.0124	1.632	0.23	1.632	0.23	0.75	PASS
SWRGM-007786	SWRMH-007638	SWRMH-006999	24	474	0.0127	1.632	0.23	1.632	0.23	0.75	PASS
SWRGM-007787	SWRMH-006996	SWRMH-006995	24	350	0.0126	1.632	0.23	1.632	0.23	0.75	PASS
SWRGM-007788	SWRMH-006999	SWRMH-006998	24	350	0.0123	1.632	0.23	1.632	0.23	0.75	PASS
SWRGM-007789	SWRMH-006998	SWRMH-006997	24	250	0.0122	1.632	0.23	1.632	0.23	0.75	PASS
SWRGM-007790	SWRMH-006997	SWRMH-007000	24	248	0.0119	1.632	0.23	1.632	0.23	0.75	PASS
SWRGM-007791	SWRMH-002569	SWRMH-002570	24	280	0.0068	1.632	0.27	1.632	0.27	0.75	PASS
SWRGM-007792	SWRMH-002570	SWRMH-002571	24	350	0.0069	1.632	0.27	1.632	0.27	0.75	PASS
SWRGM-007793	SWRMH-002571	SWRMH-002572	24	350	0.0069	1.632	0.27	1.632	0.27	0.75	PASS
SWRGM-007794	SWRMH-002572	SWRMH-001626	24	350	0.0068	1.632	0.27	1.632	0.27	0.75	PASS
SWRGM-007795	SWRMH-001626	SWRMH-001627	24	350	0.0034	1.632	0.32	1.632	0.32	0.75	PASS
SWRGM-007796	SWRMH-001627	SWRMH-001628	24	350	0.0034	1.632	0.32	1.632	0.32	0.75	PASS
SWRGM-007797	SWRMH-006995	SWRMH-001629	24	385	0.0114	1.632	0.23	1.632	0.23	0.75	PASS
SWRGM-007798	SWRMH-001628	SWRMH-006609	24	350	0.0034	1.632	0.32	1.632	0.32	0.75	PASS
SWRGM-007799	SWRMH-001629	SWRMH-002569	24	385	0.0114	1.632	0.23	1.632	0.23	0.75	PASS
SWRGM-007936	SWRMH-001603	SWRMH-002622	18	266	0.0145	0.780	0.22	0.780	0.22	0.75	PASS
SWRGM-007937	SWRMH-002622	SWRMH-001604	18	352	0.0137	0.785	0.23	0.785	0.23	0.75	PASS
SWRGM-007938	SWRMH-001613	SWRMH-001603	18	232	0.0154	0.779	0.22	0.779	0.22	0.75	PASS
SWRGM-007939	SWRMH-009288	SWRMH-001614	18	39	0.0023	0.779	0.36	0.779	0.36	0.75	PASS
SWRGM-008193	SWRMH-006601	SWRNJ-000204	24	364	0.0214	1.635	0.20	1.635	0.20	0.75	PASS
SWRGM-008194	SWRMH-006602	SWRMH-006601	24	400	0.0258	1.635	0.19	1.635	0.19	0.75	PASS
SWRGM-008195	SWRMH-006604	SWRMH-006603	24	186	0.0027	1.635	0.34	1.635	0.34	0.75	PASS
SWRGM-008196	SWRMH-006607	SWRMH-006606	24	246	0.0033	1.633	0.32	1.633	0.32	0.75	PASS
SWRGM-008197	SWRMH-008210	SWRMH-007919	27	264	0.0095	2.384	0.25	2.384	0.25	0.75	PASS
SWRGM-008201	SWRMH-008204	SWRMH-008208	27	470	0.0087	1.975	0.24	1.975	0.24	0.75	PASS
SWRGM-008253	SWRMH-006609	SWRMH-006608	24	281	0.0032	1.632	0.32	1.632	0.32	0.75	PASS
SWRGM-008391	SWRMH-008226	SWRMH-008225	27	120	0.0173	2.384	0.22	2.384	0.22	0.75	PASS
SWRGM-008392	SWRMH-008225	SWRMH-008224	27	122	0.0171	2.384	0.22	2.384	0.22	0.75	PASS
SWRGM-008483	SWRMH-001602	SWRMH-001625	18	364	0.0168	0.865	0.23	0.865	0.23	0.75	PASS
SWRGM-008484	SWRMH-001614	SWRMH-001613	18	225	0.0087	0.779	0.25	0.779	0.25	0.75	PASS
SWRGM-008541	SWRMH-000877	SWRMH-008216	27	71	0.0091	2.384	0.26	2.384	0.26	0.75	PASS
SWRGM-008558	SWRMH-007134	SWRMH-007245	27	134	0.0095	1.967	0.23	1.967	0.23	0.75	PASS
SWRGM-008559	SWRMH-007251	SWRMH-007250	27	224	0.005	1.972	0.27	1.972	0.27	0.75	PASS
SWRGM-008560	SWRMH-007252	SWRMH-007251	27	114	0.0242	1.972	0.18	1.972	0.18	0.75	PASS
SWRGM-008561	SWRMH-008205	SWRMH-007252	27	115	0.0167	1.972	0.20	1.972	0.20	0.75	PASS
SWRGM-008562	SWRMH-007248	SWRMH-008204	27	83	0.0048	1.973	0.27	1.973	0.27	0.75	PASS
SWRGM-008564	SWRMH-008208	SWRMH-008210	27	212	0.0094	2.384	0.25	2.384	0.25	0.75	PASS
SWRGM-008565	SWRMH-007919	SWRMH-007918	27	260	0.0098	2.384	0.25	2.384	0.25	0.75	PASS
SWRGM-008570	SWRMH-007918	SWRMH-008226	27	262	0.0166	2.384	0.22	2.384	0.22	0.75	PASS
SWRGM-008600	SWRMH-008224	SWRMH-000876	27	201	0.0282	2.384	0.19	2.384	0.19	0.75	PASS
SWRGM-008609	SWRMH-001604	SWRMH-001602	18	342	0.015	0.786	0.22	0.786	0.22	0.75	PASS
SWRGM-008621	SWRMH-007113	SWRMH-007118	27	353	0.0083	1.970	0.24	1.970	0.24	0.75	PASS
SWRGM-008622	SWRMH-007118	SWRMH-007117	27	159	0.008	1.971	0.24	1.971	0.24	0.75	PASS
SWRGM-008623	SWRMH-007117	SWRMH-007116	27	152	0.0084	1.972	0.24	1.972	0.24	0.75	PASS
SWRGM-008624	SWRMH-007116	SWRMH-008205	27	163	0.015	1.972	0.21	1.972	0.21	0.75	PASS
SWRGM-008626	SWRMH-007245	SWRMH-007246	27	350	0.0099	1.967	0.23	1.967	0.23	0.75	PASS
SWRGM-008698	SWRMH-001625	SWRMH-001624	18	382	0.0015	0.865	0.43	0.865	0.43	0.75	PASS
SWRGM-008702	SWRMH-001616	SWRMH-009063	24	350	0.0111	1.574	0.23	1.574	0.23	0.75	PASS
SWRGM-008703	SWRMH-001621	SWRMH-001618	18	44	0.0088	0.890	0.27	0.890	0.27	0.75	PASS
SWRGM-008704	SWRMH-001618	SWRMH-001617	24	94	0.0107	1.574	0.23	1.574	0.23	0.75	PASS
SWRGM-008705	SWRMH-001622	SWRMH-001621	18	400	0.0129	0.890	0.25	0.890	0.25	0.75	PASS
SWRGM-008706	SWRMH-001623	SWRMH-001622	18	388	0.0116	0.890	0.25	0.890	0.25	0.75	PASS
SWRGM-008707	SWRMH-001624	SWRMH-001623	18	74	0.0108	0.865	0.25	0.865	0.25	0.75	PASS
SWRGM-008708	SWRMH-001617	SWRMH-001616	24	253	0.0111	1.574	0.23	1.574	0.23	0.75	PASS
SWRGM-008709	SWRMH-007640	SWRMH-007639	24	350	0.0126	1.632	0.23	1.632	0.23	0.75	PASS
SWRGM-008714	SWRMH-007249	SWRMH-007248	27	81	0.0048	1.973	0.27	1.973	0.27	0.75	PASS
SWRGM-008715	SWRMH-007247	SWRMH-007249	27	117	0.0048	1.973	0.27	1.973	0.27	0.75	PASS
SWRGM-008716	SWRMH-007250	SWRMH-007247	27	144	0.0049	1.972	0.27	1.972	0.27	0.75	PASS

SWRGM-008742	SWRMH-006608	SWRMH-006607	24	449	0.0207	1.632	0.20	1.632	0.20	0.75	PASS
SWRGM-008748	SWRMH-006606	SWRMH-006605	24	265	0.0034	1.633	0.32	1.634	0.32	0.75	PASS
SWRGM-008749	SWRMH-006605	SWRMH-006604	24	336	0.0036	1.635	0.32	1.635	0.32	0.75	PASS
SWRGM-008750	SWRMH-006603	SWRMH-006602	24	350	0.0094	1.635	0.25	1.635	0.25	0.75	PASS
SWRGM-008778	SWRNJ-000111	SWRMH-001625	18	10	0.008	0.000	0.00	0.000	0.00	0.75	PASS
SWRGM-009262	SWRMH-008216	SWRMH-008217	27	295	0.0076	2.384	0.27	2.384	0.27	0.75	PASS
SWRGM-009336	SWRNJ-000204	SWRMH-007134	30	31	0.0065	1.635	0.20	1.635	0.20	0.75	PASS
SWRGM-009442	SWRFT-000032	SWRMH-008686	12	10	0	0.000	0.00	0.000	0.00	0.75	PASS
SWRGM-009448	SWRMH-008698	SWRMH-008697	27	497	0.0017	2.383	0.40	2.383	0.40	0.75	PASS
SWRGM-009450	SWRMH-008701	SWRMH-008700	27	809	0.0012	2.383	0.44	2.383	0.44	0.75	PASS
SWRGM-009453	SWRMH-008800	SWRMH-008798	27	500	0.0035	2.383	0.33	2.383	0.33	0.75	PASS
SWRGM-009454	SWRMH-008802	SWRMH-008800	27	500	0.0035	2.383	0.33	2.383	0.33	0.75	PASS
SWRGM-009469	SWRMH-008792	SWRMH-008790	27	500	0.0053	2.383	0.29	2.383	0.29	0.75	PASS
SWRGM-009473	SWRMH-008697	SWRMH-008696	27	401	0.0028	2.383	0.35	2.383	0.35	0.75	PASS
SWRGM-009481	SWRMH-008688	SWRMH-008687	27	397	0.0023	2.383	0.37	2.383	0.37	0.75	PASS
SWRGM-009493	SWRMH-008629	SWRMH-008628	27	500	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009503	SWRMH-009300	SWRMH-009299	27	405	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009510	SWRMH-009289	SWRMH-008645	27	438	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009512	SWRMH-008778	SWRMH-008776	27	500	0.002	2.383	0.38	2.383	0.38	0.75	PASS
SWRGM-009518	SWRMH-008632	SWRMH-008631	27	314	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009520	SWRMH-008788	SWRMH-008785	27	300	0.002	2.383	0.38	2.383	0.38	0.75	PASS
SWRGM-009524	SWRMH-008739	SWRMH-008737	27	250	0.0014	2.382	0.42	2.382	0.42	0.75	PASS
SWRGM-009526	SWRMH-008767	SWRMH-008765	27	500	0.0072	2.383	0.27	2.383	0.27	0.75	PASS
SWRGM-009538	SWRFT-000031	SWRMH-008686	12	10	0	0.000	0.00	0.000	0.00	0.75	PASS
SWRGM-009552	SWRMH-008751	SWRMH-008749	27	358	0.0015	2.383	0.41	2.383	0.41	0.75	PASS
SWRGM-009554	SWRMH-008810	SWRMH-008808	27	512	0.0031	2.383	0.34	2.383	0.34	0.75	PASS
SWRGM-009568	SWRMH-008638	SWRMH-008639	27	351	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009571	SWRMH-008644	SWRMH-008643	27	438	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009572	SWRMH-008794	SWRMH-008792	27	500	0.0054	2.383	0.29	2.383	0.29	0.75	PASS
SWRGM-009576	SWRMH-008703	SWRMH-008702	27	82	0.0022	2.383	0.37	2.383	0.37	0.75	PASS
SWRGM-009592	SWRMH-008747	SWRMH-008745	27	600	0.0015	2.383	0.41	2.383	0.41	0.75	PASS
SWRGM-009597	SWRMH-008796	SWRMH-008794	27	500	0.0035	2.383	0.33	2.383	0.33	0.75	PASS
SWRGM-009612	SWRMH-008780	SWRMH-008778	27	381	0.002	2.383	0.38	2.383	0.38	0.75	PASS
SWRGM-009627	SWRMH-008765	SWRMH-008763	27	500	0.0072	2.383	0.27	2.383	0.27	0.75	PASS
SWRGM-009635	SWRMH-008702	SWRMH-008701	27	430	0.0023	2.383	0.37	2.383	0.37	0.75	PASS
SWRGM-009647	SWRMH-009292	SWRMH-009291	27	442	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009654	SWRMH-008755	SWRMH-008753	27	500	0.0015	2.383	0.41	2.383	0.41	0.75	PASS
SWRGM-009656	SWRMH-008700	SWRMH-008699	27	433	0.0021	2.383	0.37	2.383	0.37	0.75	PASS
SWRGM-009657	SWRMH-009282	SWRMH-009288	8	257	0.0155	0.025	0.12	0.025	0.12	0.75	PASS
SWRGM-009663	SWRMH-008776	SWRMH-008773	27	500	0.002	2.383	0.38	2.383	0.38	0.75	PASS
SWRGM-009668	SWRMH-009293	SWRMH-009292	27	320	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009680	SWRMH-009297	SWRMH-009296	27	438	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009681	SWRMH-008689	SWRMH-008688	27	500	0.0023	2.383	0.37	2.383	0.37	0.75	PASS
SWRGM-009684	SWRMH-009298	SWRMH-009297	27	438	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009688	SWRMH-008815	SWRMH-008813	27	250	0.0034	2.383	0.33	2.383	0.33	0.75	PASS
SWRGM-009689	SWRMH-008692	SWRMH-008691	27	500	0.0023	2.383	0.37	2.383	0.37	0.75	PASS
SWRGM-009699	SWRMH-009283	SWRMH-009282	8	280	0.0045	0.023	0.15	0.023	0.15	0.75	PASS
SWRGM-009702	SWRMH-008690	SWRMH-008689	27	500	0.0023	2.383	0.37	2.383	0.37	0.75	PASS
SWRGM-009707	SWRMH-008704	SWRMH-008703	27	284	0.003	2.383	0.34	2.383	0.34	0.75	PASS
SWRGM-009723	SWRMH-008757	SWRMH-008755	27	500	0.0022	2.383	0.37	2.383	0.37	0.75	PASS
SWRGM-009725	SWRMH-008642	SWRMH-008641	27	397	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009743	SWRMH-008806	SWRMH-008804	27	439	0.0035	2.383	0.33	2.383	0.33	0.75	PASS
SWRGM-009744	SWRMH-008687	SWRMH-008686	27	397	0.0031	2.383	0.34	2.383	0.34	0.75	PASS
SWRGM-009759	SWRMH-008631	SWRMH-008630	27	309	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009760	SWRMH-008808	SWRMH-008806	27	401	0.0039	2.383	0.32	2.383	0.32	0.75	PASS
SWRGM-009767	SWRMH-008639	SWRMH-008634	27	504	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009793	SWRMH-008749	SWRMH-008747	27	358	0.0015	2.383	0.41	2.383	0.41	0.75	PASS
SWRGM-009798	SWRMH-008637	SWRMH-008638	27	351	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009801	SWRMH-008686	SWRMH-008817	27	250	0.0034	2.383	0.33	2.383	0.33	0.75	PASS
SWRGM-009808	SWRMH-008633	SWRMH-008632	27	560	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009813	SWRMH-009290	SWRMH-009289	27	442	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009834	SWRMH-008693	SWRMH-008692	27	500	0.0023	2.383	0.37	2.383	0.37	0.75	PASS
SWRGM-009847	SWRMH-009299	SWRMH-009298	27	438	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009849	SWRMH-009287	SWRMH-009286	8	346	0.0054	0.005	0.07	0.005	0.07	0.75	PASS
SWRGM-009850	SWRMH-009294	SWRMH-009293	27	500	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009866	SWRMH-008769	SWRMH-008767	27	500	0.0072	2.383	0.27	2.383	0.27	0.75	PASS
SWRGM-009867	SWRMH-009296	SWRMH-009295	27	438	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009885	SWRMH-008630	SWRMH-008629	27	500	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009890	SWRMH-008781	SWRMH-008780	27	499	0.002	2.383	0.38	2.383	0.38	0.75	PASS
SWRGM-009895	SWRMH-008691	SWRMH-008690	27	500	0.0023	2.383	0.37	2.383	0.37	0.75	PASS
SWRGM-009902	SWRMH-008627	SWRMH-008626	27	500	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009914	SWRMH-008640	SWRMH-008635	27	311	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009919	SWRMH-008623	SWRMH-008704	27	306	0.0036	2.383	0.32	2.384	0.32	0.75	PASS
SWRGM-009922	SWRMH-009285	SWRMH-009284	8	343	0.0047	0.014	0.12	0.014	0.12	0.75	PASS
SWRGM-009924	SWRMH-008763	SWRMH-008761	27	500	0.0072	2.383	0.27	2.383	0.27	0.75	PASS
SWRGM-009932	SWRMH-008798	SWRMH-008796	27	476	0.0045	2.383	0.31	2.383	0.31	0.75	PASS
SWRGM-009942	SWRMH-008645	SWRMH-008644	27	438	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009946	SWRMH-008804	SWRMH-008802	27	440	0.0035	2.383	0.33	2.383	0.33	0.75	PASS
SWRGM-009952	SWRMH-008735	SWRMH-008733	27	500	0.0015	2.382	0.41	2.382	0.41	0.75	PASS
SWRGM-009954	SWRMH-009284	SWRMH-009283	8	324	0.0048	0.019	0.14	0.019	0.14	0.75	PASS
SWRGM-009961	SWRMH-008699	SWRMH-008698	27	519	0.0017	2.383	0.40	2.383	0.40	0.75	PASS
SWRGM-009971	SWRMH-008817	SWRMH-008815	27	250	0.0034	2.383	0.33	2.383	0.33	0.75	PASS
SWRGM-009982	SWRMH-009295	SWRMH-009294	27	496	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009985	SWRMH-008628	SWRMH-008627	27	500	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-009998	SWRMH-008771	SWRMH-008769	27	500	0.002	2.383	0.38	2.383	0.38	0.75	PASS
SWRGM-009999	SWRMH-008753	SWRMH-008751	27	499	0.0015	2.383	0.41	2.383	0.41	0.75	PASS
SWRGM-010023	SWRMH-009303	SWRMH-009302	27	375	0.0021	2.384	0.38	2.384	0.38	0.75	PASS

SWRGM-010051	SWRMH-008643	SWRMH-008642	27	397	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-010063	SWRMH-008745	SWRMH-008743	27	580	0.0015	2.382	0.41	2.383	0.41	0.75	PASS
SWRGM-010078	SWRMH-008743	SWRMH-008741	27	261	0.0015	2.382	0.41	2.383	0.41	0.75	PASS
SWRGM-010086	SWRMH-008636	SWRMH-008637	27	351	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-010094	SWRMH-008759	SWRMH-008757	27	500	0.0071	2.383	0.27	2.383	0.27	0.75	PASS
SWRGM-010102	SWRMH-008694	SWRMH-008693	27	423	0.0027	2.383	0.35	2.383	0.35	0.75	PASS
SWRGM-010105	SWRMH-008634	SWRMH-008633	27	504	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-010113	SWRMH-008731	SWRMH-008729	27	500	0.0015	2.382	0.41	2.382	0.41	0.75	PASS
SWRGM-010122	SWRMH-008761	SWRMH-008759	27	388	0.0072	2.383	0.27	2.383	0.27	0.75	PASS
SWRGM-010125	SWRMH-009291	SWRMH-009290	27	442	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-010130	SWRMH-008626	SWRMH-008625	27	500	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-010132	SWRMH-008741	SWRMH-008739	27	350	0.0015	2.382	0.41	2.382	0.41	0.75	PASS
SWRGM-010141	SWRMH-008695	SWRMH-008694	27	381	0.003	2.383	0.34	2.383	0.34	0.75	PASS
SWRGM-010155	SWRMH-008785	SWRMH-008783	27	300	0.002	2.383	0.38	2.383	0.38	0.75	PASS
SWRGM-010159	SWRMH-008624	SWRMH-008623	27	588	0.0038	2.384	0.32	2.384	0.32	0.75	PASS
SWRGM-010163	SWRMH-008783	SWRMH-008781	27	500	0.002	2.383	0.38	2.383	0.38	0.75	PASS
SWRGM-010165	SWRMH-008729	SWRMH-008727	27	314	0.0015	2.382	0.41	2.382	0.41	0.75	PASS
SWRGM-010174	SWRMH-008773	SWRMH-008771	27	470	0.002	2.383	0.38	2.383	0.38	0.75	PASS
SWRGM-010183	SWRMH-008733	SWRMH-008731	27	500	0.0015	2.382	0.41	2.382	0.41	0.75	PASS
SWRGM-010200	SWRMH-008625	SWRMH-008624	27	500	0.0036	2.384	0.33	2.384	0.33	0.75	PASS
SWRGM-010201	SWRMH-008727	SWRNJ-000196	27	73	0.0027	2.491	0.36	2.491	0.36	0.75	PASS
SWRGM-010226	SWRMH-008813	SWRMH-008811	27	287	0.0035	2.383	0.33	2.383	0.33	0.75	PASS
SWRGM-010231	SWRMH-008696	SWRMH-008695	27	163	0.005	2.383	0.30	2.383	0.30	0.75	PASS
SWRGM-010232	SWRMH-009301	SWRMH-009300	27	236	0.0019	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-010252	SWRMH-008635	SWRMH-008636	27	311	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-010253	SWRMH-009286	SWRMH-009285	8	345	0.0048	0.010	0.10	0.010	0.10	0.75	PASS
SWRGM-010256	SWRMH-000296	SWRMH-009303	27	314	0.0032	2.384	0.33	2.384	0.33	0.75	PASS
SWRGM-010258	SWRMH-008790	SWRMH-008788	27	275	0.002	2.383	0.38	2.383	0.38	0.75	PASS
SWRGM-010263	SWRMH-008641	SWRMH-008640	27	397	0.002	2.384	0.38	2.384	0.38	0.75	PASS
SWRGM-010266	SWRMH-008737	SWRMH-008735	27	500	0.0015	2.382	0.41	2.382	0.41	0.75	PASS
SWRGM-010277	SWRMH-008811	SWRMH-008810	27	446	0.0035	2.383	0.33	2.383	0.33	0.75	PASS
SWRGM-010285	SWRMH-009302	SWRMH-009301	27	241	0.0019	2.384	0.38	2.384	0.38	0.75	PASS

Downstream Dos Palmas Run Future (2040) w/ Sceptic and CIP (Dos Palmas Rd)											
Pipe ID	U/S MH ID	D/S MH ID	Size (inch)	Length (ft)	Slope (ft/ft)	2016 SMP Peak Flow (mgd)	2016 SMP Maximum d/D	With Dos Palmas Project Peak Flow (mgd)	With Dos Palmas Project Maximum d/D	d/D Criteria	Remark
SWRGM-001876	SWRMH-007112	SWRMH-007113	27	88	0.0217	9.764	0.43	9.764	0.43	0.75	PASS
SWRGM-001997	SWRMH-007246	SWRMH-007112	27	141	0.0166	9.762	0.46	9.762	0.46	0.75	PASS
SWRGM-007541	SWRMH-000876	SWRMH-000877	27	228	0.024	10.584	0.44	10.584	0.44	0.75	PASS
SWRGM-007543	SWRMH-000298	SWRMH-000297	27	12	0.0078	10.584	0.61	10.584	0.61	0.75	PASS
SWRGM-007545	SWRMH-008217	SWRMH-000298	27	49	0.0112	10.584	0.54	10.584	0.54	0.75	PASS
SWRGM-007547	SWRMH-000297	SWRMH-000296	27	33	0.0039	10.584	0.79	10.584	0.79	0.75	FAIL
SWRGM-007779	SWRMH-006991	SWRMH-006990	24	306	0.0126	8.427	0.55	8.427	0.55	0.75	PASS
SWRGM-007780	SWRMH-009063	SWRMH-006991	24	350	0.0124	8.427	0.56	8.427	0.56	0.75	PASS
SWRGM-007781	SWRMH-007639	SWRMH-007638	24	225	0.012	8.613	0.57	8.613	0.57	0.75	PASS
SWRGM-007782	SWRMH-007641	SWRMH-007640	24	350	0.0123	8.613	0.57	8.613	0.57	0.75	PASS
SWRGM-007783	SWRMH-006990	SWRMH-007641	24	393	0.0123	8.613	0.56	8.613	0.56	0.75	PASS
SWRGM-007785	SWRMH-007000	SWRMH-006996	24	202	0.0124	8.737	0.57	8.737	0.57	0.75	PASS
SWRGM-007786	SWRMH-007638	SWRMH-006999	24	474	0.0127	8.737	0.56	8.737	0.56	0.75	PASS
SWRGM-007787	SWRMH-006996	SWRMH-006995	24	350	0.0126	8.737	0.57	8.737	0.57	0.75	PASS
SWRGM-007788	SWRMH-006999	SWRMH-006998	24	350	0.0123	8.737	0.57	8.737	0.57	0.75	PASS
SWRGM-007789	SWRMH-006998	SWRMH-006997	24	250	0.0122	8.737	0.57	8.737	0.57	0.75	PASS
SWRGM-007790	SWRMH-006997	SWRMH-007000	24	248	0.0119	8.737	0.58	8.737	0.58	0.75	PASS
SWRGM-007791	SWRMH-002569	SWRMH-002570	27	280	0.0068	8.737	0.56	8.737	0.56	0.75	PASS
SWRGM-007792	SWRMH-002570	SWRMH-002571	27	350	0.0069	8.737	0.56	8.737	0.56	0.75	PASS
SWRGM-007793	SWRMH-002571	SWRMH-002572	27	350	0.0069	8.853	0.57	8.853	0.57	0.75	PASS
SWRGM-007794	SWRMH-002572	SWRMH-001626	27	350	0.0068	8.853	0.57	8.853	0.57	0.75	PASS
SWRGM-007795	SWRMH-001626	SWRMH-001627	27	350	0.0034	8.853	0.72	8.853	0.72	0.75	PASS
SWRGM-007796	SWRMH-001627	SWRMH-001628	27	350	0.0034	8.968	0.73	8.968	0.73	0.75	PASS
SWRGM-007797	SWRMH-006995	SWRMH-001629	24	385	0.0114	8.737	0.58	8.737	0.58	0.75	PASS
SWRGM-007798	SWRMH-001628	SWRMH-006609	27	350	0.0034	8.968	0.73	8.968	0.73	0.75	PASS
SWRGM-007799	SWRMH-001629	SWRMH-002569	24	385	0.0114	8.737	0.58	8.737	0.58	0.75	PASS
SWRGM-007936	SWRMH-001603	SWRMH-002622	18	266	0.0145	2.024	0.37	2.024	0.37	0.75	PASS
SWRGM-007937	SWRMH-002622	SWRMH-001604	18	352	0.0137	2.028	0.37	2.028	0.37	0.75	PASS
SWRGM-007938	SWRMH-001613	SWRMH-001603	18	232	0.0154	2.023	0.36	2.023	0.36	0.75	PASS
SWRGM-007939	SWRMH-009288	SWRMH-001614	18	39	0.0023	1.974	0.62	1.974	0.62	0.75	PASS
SWRGM-008193	SWRMH-006601	SWRNJ-000204	27	364	0.0214	9.193	0.42	9.193	0.42	0.75	PASS
SWRGM-008194	SWRMH-006602	SWRMH-006601	27	400	0.0258	9.193	0.40	9.193	0.40	0.75	PASS
SWRGM-008195	SWRMH-006604	SWRMH-006603	27	186	0.0038	9.083	0.71	9.083	0.71	0.75	PASS
SWRGM-008196	SWRMH-006607	SWRMH-006606	27	246	0.0033	9.082	0.75	9.082	0.75	0.75	PASS
SWRGM-008197	SWRMH-008210	SWRMH-007919	27	264	0.0095	10.584	0.57	10.584	0.57	0.75	PASS
SWRGM-008201	SWRMH-008204	SWRMH-008208	27	470	0.0087	9.768	0.56	9.768	0.56	0.75	PASS
SWRGM-008253	SWRMH-006609	SWRMH-006608	27	281	0.0032	8.968	0.75	8.968	0.75	0.75	PASS
SWRGM-008391	SWRMH-008226	SWRMH-008225	27	120	0.0173	10.584	0.48	10.584	0.48	0.75	PASS
SWRGM-008392	SWRMH-008225	SWRMH-008224	27	122	0.0171	10.584	0.48	10.584	0.48	0.75	PASS
SWRGM-008483	SWRMH-001602	SWRMH-001625	18	364	0.0168	2.121	0.36	2.121	0.36	0.75	PASS
SWRGM-008484	SWRMH-001614	SWRMH-001613	18	225	0.0087	1.975	0.41	1.975	0.41	0.75	PASS
SWRGM-008541	SWRMH-000877	SWRMH-008216	27	71	0.0091	10.584	0.58	10.584	0.58	0.75	PASS
SWRGM-008558	SWRMH-007134	SWRMH-007245	27	134	0.0095	9.762	0.54	9.762	0.54	0.75	PASS
SWRGM-008559	SWRMH-007251	SWRMH-007250	27	224	0.005	9.766	0.67	9.766	0.67	0.75	PASS
SWRGM-008560	SWRMH-007252	SWRMH-007251	27	114	0.0242	9.766	0.42	9.766	0.42	0.75	PASS
SWRGM-008561	SWRMH-008205	SWRMH-007252	27	115	0.0167	9.766	0.46	9.766	0.46	0.75	PASS
SWRGM-008562	SWRMH-007248	SWRMH-008204	27	83	0.0048	9.767	0.68	9.767	0.68	0.75	PASS
SWRGM-008564	SWRMH-008208	SWRMH-008210	27	212	0.0094	10.584	0.57	10.584	0.57	0.75	PASS
SWRGM-008565	SWRMH-007919	SWRMH-007918	27	260	0.0098	10.584	0.57	10.584	0.57	0.75	PASS
SWRGM-008570	SWRMH-007918	SWRMH-008226	27	262	0.0166	10.584	0.48	10.584	0.48	0.75	PASS
SWRGM-008600	SWRMH-008224	SWRMH-000876	27	201	0.0282	10.584	0.42	10.584	0.42	0.75	PASS
SWRGM-008609	SWRMH-001604	SWRMH-001602	18	342	0.015	2.029	0.36	2.029	0.36	0.75	PASS
SWRGM-008621	SWRMH-007113	SWRMH-007118	27	353	0.0083	9.765	0.57	9.765	0.57	0.75	PASS
SWRGM-008622	SWRMH-007118	SWRMH-007117	27	159	0.008	9.766	0.57	9.766	0.57	0.75	PASS
SWRGM-008623	SWRMH-007117	SWRMH-007116	27	152	0.0084	9.766	0.56	9.766	0.56	0.75	PASS
SWRGM-008624	SWRMH-007116	SWRMH-008205	27	163	0.015	9.766	0.48	9.766	0.48	0.75	PASS
SWRGM-008626	SWRMH-007245	SWRMH-007246	27	350	0.0099	9.762	0.54	9.762	0.54	0.75	PASS
SWRGM-008698	SWRMH-001625	SWRMH-001624	18	382	0.0015	2.121	0.77	2.121	0.77	0.75	FAIL
SWRGM-008702	SWRMH-001616	SWRMH-009063	24	350	0.0111	8.427	0.58	8.427	0.58	0.75	PASS
SWRGM-008703	SWRMH-001621	SWRMH-001618	18	44	0.0088	2.143	0.43	2.143	0.43	0.75	PASS
SWRGM-008704	SWRMH-001618	SWRMH-001617	24	94	0.0107	8.381	0.58	8.382	0.58	0.75	PASS
SWRGM-008705	SWRMH-001622	SWRMH-001621	18	400	0.0129	2.143	0.39	2.143	0.39	0.75	PASS
SWRGM-008706	SWRMH-001623	SWRMH-001622	18	388	0.0116	2.143	0.40	2.143	0.40	0.75	PASS
SWRGM-008707	SWRMH-001624	SWRMH-001623	18	74	0.0108	2.121	0.41	2.121	0.41	0.75	PASS
SWRGM-008708	SWRMH-001617	SWRMH-001616	24	253	0.0111	8.381	0.57	8.381	0.57	0.75	PASS
SWRGM-008709	SWRMH-007640	SWRMH-007639	24	350	0.0126	8.613	0.56	8.613	0.56	0.75	PASS
SWRGM-008714	SWRMH-007249	SWRMH-007248	27	81	0.0048	9.767	0.68	9.767	0.68	0.75	PASS
SWRGM-008715	SWRMH-007247	SWRMH-007249	27	117	0.0048	9.767	0.68	9.767	0.68	0.75	PASS
SWRGM-008716	SWRMH-007250	SWRMH-007247	27	144	0.0049	9.766	0.68	9.766	0.68	0.75	PASS

SWRGM-008742	SWRMH-006608	SWRMH-006607	27	449	0.0207	8.968	0.41	8.968	0.41	0.75	PASS
SWRGM-008748	SWRMH-006606	SWRMH-006605	27	265	0.0034	9.082	0.74	9.082	0.74	0.75	PASS
SWRGM-008749	SWRMH-006605	SWRMH-006604	27	336	0.0036	9.083	0.72	9.083	0.72	0.75	PASS
SWRGM-008750	SWRMH-006603	SWRMH-006602	27	350	0.0094	9.083	0.52	9.083	0.52	0.75	PASS
SWRGM-008778	SWRNJ-000111	SWRMH-001625	18	10	0.008	0.000	0.00	0.000	0.00	0.75	PASS
SWRGM-009262	SWRMH-008216	SWRMH-008217	27	295	0.0076	10.584	0.62	10.584	0.62	0.75	PASS
SWRGM-009336	SWRNJ-000204	SWRMH-007134	30	31	0.0065	9.193	0.50	9.193	0.50	0.75	PASS
SWRGM-009442	SWRFT-000032	SWRMH-008686	12	10	0	0.000	0.00	0.000	0.00	0.75	PASS
SWRGM-009448	SWRMH-008698	SWRMH-008697	27	497	0.0017	10.760	0.65	10.760	0.65	0.75	PASS
SWRGM-009450	SWRMH-008701	SWRMH-008700	27	809	0.0012	10.760	0.73	10.760	0.73	0.75	PASS
SWRGM-009453	SWRMH-008800	SWRMH-008798	27	500	0.0035	10.818	0.52	10.818	0.52	0.75	PASS
SWRGM-009454	SWRMH-008802	SWRMH-008800	27	500	0.0035	10.818	0.52	10.818	0.52	0.75	PASS
SWRGM-009469	SWRMH-008792	SWRMH-008790	27	500	0.0053	10.871	0.46	10.871	0.46	0.75	PASS
SWRGM-009473	SWRMH-008697	SWRMH-008696	27	401	0.0028	10.760	0.55	10.760	0.55	0.75	PASS
SWRGM-009481	SWRMH-008688	SWRMH-008687	27	397	0.0023	10.818	0.59	10.818	0.59	0.75	PASS
SWRGM-009493	SWRMH-008629	SWRMH-008628	27	500	0.002	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009503	SWRMH-009300	SWRMH-009299	27	405	0.002	10.584	0.61	10.584	0.61	0.75	PASS
SWRGM-009510	SWRMH-009289	SWRMH-008645	27	438	0.002	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009512	SWRMH-008778	SWRMH-008776	27	500	0.002	10.871	0.62	10.871	0.62	0.75	PASS
SWRGM-009518	SWRMH-008632	SWRMH-008631	27	314	0.002	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009520	SWRMH-008788	SWRMH-008785	27	300	0.0020	10.871	0.62	10.871	0.62	0.75	PASS
SWRGM-009524	SWRMH-008739	SWRMH-008737	27	250	0.0014	10.870	0.69	10.870	0.69	0.75	PASS
SWRGM-009526	SWRMH-008767	SWRMH-008765	27	500	0.0072	10.870	0.42	10.870	0.42	0.75	PASS
SWRGM-009538	SWRFT-000031	SWRMH-008686	12	10	0	0.000	0.00	0.000	0.00	0.75	PASS
SWRGM-009552	SWRMH-008751	SWRMH-008749	27	358	0.0015	10.870	0.68	10.870	0.68	0.75	PASS
SWRGM-009554	SWRMH-008810	SWRMH-008808	27	512	0.0031	10.818	0.54	10.818	0.54	0.75	PASS
SWRGM-009568	SWRMH-008638	SWRMH-008639	27	351	0.002	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009571	SWRMH-008644	SWRMH-008643	27	438	0.002	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009572	SWRMH-008794	SWRMH-008792	27	500	0.0054	10.871	0.45	10.871	0.45	0.75	PASS
SWRGM-009576	SWRMH-008703	SWRMH-008702	27	82	0.0022	10.760	0.59	10.760	0.59	0.75	PASS
SWRGM-009592	SWRMH-008747	SWRMH-008745	27	600	0.0015	10.870	0.68	10.870	0.68	0.75	PASS
SWRGM-009597	SWRMH-008796	SWRMH-008794	27	500	0.0035	10.871	0.52	10.871	0.52	0.75	PASS
SWRGM-009612	SWRMH-008780	SWRMH-008778	27	381	0.002	10.871	0.62	10.871	0.62	0.75	PASS
SWRGM-009627	SWRMH-008765	SWRMH-008763	27	500	0.0072	10.870	0.42	10.870	0.42	0.75	PASS
SWRGM-009635	SWRMH-008702	SWRMH-008701	27	430	0.0023	10.760	0.59	10.760	0.59	0.75	PASS
SWRGM-009647	SWRMH-009292	SWRMH-009291	27	442	0.002	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009654	SWRMH-008755	SWRMH-008753	27	500	0.0015	10.870	0.68	10.870	0.68	0.75	PASS
SWRGM-009656	SWRMH-008700	SWRMH-008699	27	433	0.0021	10.760	0.60	10.760	0.60	0.75	PASS
SWRGM-009657	SWRMH-009282	SWRMH-009288	8	257	0.0155	0.025	0.12	0.025	0.12	0.75	PASS
SWRGM-009663	SWRMH-008776	SWRMH-008773	27	500	0.002	10.871	0.62	10.871	0.62	0.75	PASS
SWRGM-009668	SWRMH-009293	SWRMH-009292	27	320	0.002	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009680	SWRMH-009297	SWRMH-009296	27	438	0.002	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009681	SWRMH-008689	SWRMH-008688	27	500	0.0023	10.818	0.59	10.819	0.59	0.75	PASS
SWRGM-009684	SWRMH-009298	SWRMH-009297	27	438	0.002	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009688	SWRMH-008815	SWRMH-008813	27	250	0.0034	10.818	0.52	10.818	0.52	0.75	PASS
SWRGM-009689	SWRMH-008692	SWRMH-008691	27	500	0.0023	10.760	0.59	10.760	0.59	0.75	PASS
SWRGM-009699	SWRMH-009283	SWRMH-009282	8	280	0.0045	0.023	0.15	0.023	0.15	0.75	PASS
SWRGM-009702	SWRMH-008690	SWRMH-008689	27	500	0.0023	10.819	0.59	10.819	0.59	0.75	PASS
SWRGM-009707	SWRMH-008704	SWRMH-008703	27	284	0.003	10.760	0.54	10.760	0.54	0.75	PASS
SWRGM-009723	SWRMH-008757	SWRMH-008755	27	500	0.0022	10.870	0.60	10.870	0.60	0.75	PASS
SWRGM-009725	SWRMH-008642	SWRMH-008641	27	397	0.002	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009743	SWRMH-008806	SWRMH-008804	27	439	0.0035	10.818	0.52	10.818	0.52	0.75	PASS
SWRGM-009744	SWRMH-008687	SWRMH-008686	27	397	0.0031	10.818	0.53	10.818	0.53	0.75	PASS
SWRGM-009759	SWRMH-008631	SWRMH-008630	27	309	0.002	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009760	SWRMH-008808	SWRMH-008806	27	401	0.0039	10.818	0.50	10.818	0.50	0.75	PASS
SWRGM-009767	SWRMH-008639	SWRMH-008634	27	504	0.002	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009793	SWRMH-008749	SWRMH-008747	27	358	0.0015	10.870	0.68	10.870	0.68	0.75	PASS
SWRGM-009798	SWRMH-008637	SWRMH-008638	27	351	0.002	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009801	SWRMH-008686	SWRMH-008817	27	250	0.0034	10.818	0.52	10.818	0.52	0.75	PASS
SWRGM-009808	SWRMH-008633	SWRMH-008632	27	560	0.002	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009813	SWRMH-009290	SWRMH-009289	27	442	0.002	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009834	SWRMH-008693	SWRMH-008692	27	500	0.0023	10.760	0.59	10.760	0.59	0.75	PASS
SWRGM-009847	SWRMH-009299	SWRMH-009298	27	438	0.002	10.584	0.61	10.584	0.61	0.75	PASS
SWRGM-009849	SWRMH-009287	SWRMH-009286	8	346	0.0054	0.005	0.07	0.005	0.07	0.75	PASS
SWRGM-009850	SWRMH-009294	SWRMH-009293	27	500	0.002	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009866	SWRMH-008769	SWRMH-008767	27	500	0.0072	10.870	0.42	10.870	0.42	0.75	PASS
SWRGM-009867	SWRMH-009296	SWRMH-009295	27	438	0.002	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009885	SWRMH-008630	SWRMH-008629	27	500	0.002	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009890	SWRMH-008781	SWRMH-008780	27	499	0.002	10.871	0.62	10.871	0.62	0.75	PASS
SWRGM-009895	SWRMH-008691	SWRMH-008690	27	500	0.0023	10.819	0.59	10.819	0.59	0.75	PASS
SWRGM-009902	SWRMH-008627	SWRMH-008626	27	500	0.002	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009914	SWRMH-008640	SWRMH-008635	27	311	0.002	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009919	SWRMH-008623	SWRMH-008704	27	306	0.0036	10.760	0.51	10.760	0.51	0.75	PASS
SWRGM-009922	SWRMH-009285	SWRMH-009284	8	343	0.0047	0.014	0.12	0.014	0.12	0.75	PASS
SWRGM-009924	SWRMH-008763	SWRMH-008761	27	500	0.0072	10.870	0.42	10.870	0.42	0.75	PASS
SWRGM-009932	SWRMH-008798	SWRMH-008796	27	476	0.0045	10.871	0.48	10.871	0.48	0.75	PASS
SWRGM-009942	SWRMH-008645	SWRMH-008644	27	438	0.002	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009946	SWRMH-008804	SWRMH-008802	27	440	0.0035	10.818	0.52	10.818	0.52	0.75	PASS
SWRGM-009952	SWRMH-008735	SWRMH-008733	27	500	0.0015	10.870	0.68	10.870	0.68	0.75	PASS
SWRGM-009954	SWRMH-009284	SWRMH-009283	8	324	0.0048	0.019	0.14	0.019	0.14	0.75	PASS
SWRGM-009961	SWRMH-008699	SWRMH-008698	27	519	0.0017	10.760	0.65	10.760	0.65	0.75	PASS
SWRGM-009971	SWRMH-008817	SWRMH-008815	27	250	0.0034	10.818	0.52	10.818	0.52	0.75	PASS
SWRGM-009982	SWRMH-009295	SWRMH-009294	27	496	0.002	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009985	SWRMH-008628	SWRMH-008627	27	500	0.002	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009998	SWRMH-008771	SWRMH-008769	27	500	0.002	10.870	0.62	10.870	0.62	0.75	PASS
SWRGM-009999	SWRMH-008753	SWRMH-008751	27	499	0.0015	10.870	0.68	10.870	0.68	0.75	PASS
SWRGM-010023	SWRMH-009303	SWRMH-009302	27	375	0.0021	10.584	0.60	10.584	0.60	0.75	PASS

SWRGM-010051	SWRMH-008643	SWRMH-008642	27	397	0.002	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-010063	SWRMH-008745	SWRMH-008743	27	580	0.0015	10.870	0.68	10.870	0.68	0.75	PASS
SWRGM-010078	SWRMH-008743	SWRMH-008741	27	261	0.0015	10.870	0.69	10.870	0.69	0.75	PASS
SWRGM-010086	SWRMH-008636	SWRMH-008637	27	351	0.002	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-010094	SWRMH-008759	SWRMH-008757	27	500	0.0071	10.870	0.42	10.870	0.42	0.75	PASS
SWRGM-010102	SWRMH-008694	SWRMH-008693	27	423	0.0027	10.760	0.56	10.760	0.56	0.75	PASS
SWRGM-010105	SWRMH-008634	SWRMH-008633	27	504	0.002	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-010113	SWRMH-008731	SWRMH-008729	27	500	0.0015	10.870	0.68	10.870	0.68	0.75	PASS
SWRGM-010122	SWRMH-008761	SWRMH-008759	27	388	0.0072	10.870	0.42	10.870	0.42	0.75	PASS
SWRGM-010125	SWRMH-009291	SWRMH-009290	27	442	0.002	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-010130	SWRMH-008626	SWRMH-008625	27	500	0.002	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-010132	SWRMH-008741	SWRMH-008739	27	350	0.0015	10.870	0.68	10.870	0.68	0.75	PASS
SWRGM-010141	SWRMH-008695	SWRMH-008694	27	381	0.003	10.760	0.54	10.760	0.54	0.75	PASS
SWRGM-010155	SWRMH-008785	SWRMH-008783	27	300	0.002	10.871	0.62	10.871	0.62	0.75	PASS
SWRGM-010159	SWRMH-008624	SWRMH-008623	27	588	0.0038	10.695	0.50	10.696	0.50	0.75	PASS
SWRGM-010163	SWRMH-008783	SWRMH-008781	27	500	0.002	10.871	0.62	10.871	0.62	0.75	PASS
SWRGM-010165	SWRMH-008729	SWRMH-008727	27	314	0.0015	10.870	0.69	10.870	0.69	0.75	PASS
SWRGM-010174	SWRMH-008773	SWRMH-008771	27	470	0.002	10.870	0.62	10.871	0.62	0.75	PASS
SWRGM-010183	SWRMH-008733	SWRMH-008731	27	500	0.0015	10.870	0.68	10.870	0.68	0.75	PASS
SWRGM-010200	SWRMH-008625	SWRMH-008624	27	500	0.0036	10.695	0.51	10.696	0.51	0.75	PASS
SWRGM-010201	SWRMH-008727	SWRNJ-000196	27	73	0.0027	11.161	0.57	11.161	0.57	0.75	PASS
SWRGM-010226	SWRMH-008813	SWRMH-008811	27	287	0.0035	10.818	0.52	10.818	0.52	0.75	PASS
SWRGM-010231	SWRMH-008696	SWRMH-008695	27	163	0.005	10.760	0.46	10.760	0.46	0.75	PASS
SWRGM-010232	SWRMH-009301	SWRMH-009300	27	236	0.0019	10.584	0.61	10.584	0.61	0.75	PASS
SWRGM-010252	SWRMH-008635	SWRMH-008636	27	311	0.002	10.696	0.61	10.696	0.61	0.75	PASS

Downstream Dos Palmas Run Future (2040) w/ Sceptic and CIP (Dandelion Way)											
Pipe ID	U/S MH ID	D/S MH ID	Size (inch)	Length (ft)	Slope (ft/ft)	2016 SMP Peak Flow (mgd)	2016 SMP Maximum d/D	With Dos Palmas Project Peak Flow (mgd)	With Dos Palmas Project Maximum d/D	d/D Criteria	Remark
SWRGM-001876	SWRMH-007112	SWRMH-007113	27	88	0.0217	9.764	0.43	9.764	0.43	0.75	PASS
SWRGM-001997	SWRMH-007246	SWRMH-007112	27	141	0.0166	9.762	0.46	9.762	0.46	0.75	PASS
SWRGM-007541	SWRMH-000876	SWRMH-000877	27	228	0.0240	10.584	0.44	10.584	0.44	0.75	PASS
SWRGM-007543	SWRMH-000298	SWRMH-000297	27	12	0.0078	10.584	0.61	10.584	0.61	0.75	PASS
SWRGM-007545	SWRMH-008217	SWRMH-000298	27	49	0.0112	10.584	0.54	10.584	0.54	0.75	PASS
SWRGM-007547	SWRMH-000297	SWRMH-000296	27	33	0.0039	10.584	0.79	10.584	0.79	0.75	FAIL
SWRGM-007779	SWRMH-006991	SWRMH-006990	24	306	0.0126	8.427	0.55	8.427	0.55	0.75	PASS
SWRGM-007780	SWRMH-009063	SWRMH-006991	24	350	0.0124	8.427	0.56	8.427	0.56	0.75	PASS
SWRGM-007781	SWRMH-007639	SWRMH-007638	24	225	0.0120	8.613	0.57	8.613	0.57	0.75	PASS
SWRGM-007782	SWRMH-007641	SWRMH-007640	24	350	0.0123	8.613	0.57	8.613	0.57	0.75	PASS
SWRGM-007783	SWRMH-006990	SWRMH-007641	24	393	0.0123	8.613	0.56	8.613	0.56	0.75	PASS
SWRGM-007785	SWRMH-007000	SWRMH-006996	24	202	0.0124	8.737	0.57	8.737	0.57	0.75	PASS
SWRGM-007786	SWRMH-007638	SWRMH-006999	24	474	0.0127	8.737	0.56	8.737	0.56	0.75	PASS
SWRGM-007787	SWRMH-006996	SWRMH-006995	24	350	0.0126	8.737	0.57	8.737	0.57	0.75	PASS
SWRGM-007788	SWRMH-006999	SWRMH-006998	24	350	0.0123	8.737	0.57	8.737	0.57	0.75	PASS
SWRGM-007789	SWRMH-006998	SWRMH-006997	24	250	0.0122	8.737	0.57	8.737	0.57	0.75	PASS
SWRGM-007790	SWRMH-006997	SWRMH-007000	24	248	0.0119	8.737	0.58	8.737	0.58	0.75	PASS
SWRGM-007791	SWRMH-002569	SWRMH-002570	27	280	0.0068	8.737	0.56	8.737	0.56	0.75	PASS
SWRGM-007792	SWRMH-002570	SWRMH-002571	27	350	0.0069	8.737	0.56	8.737	0.56	0.75	PASS
SWRGM-007793	SWRMH-002571	SWRMH-002572	27	350	0.0069	8.853	0.57	8.853	0.57	0.75	PASS
SWRGM-007794	SWRMH-002572	SWRMH-001626	27	350	0.0068	8.853	0.57	8.853	0.57	0.75	PASS
SWRGM-007795	SWRMH-001626	SWRMH-001627	27	350	0.0034	8.853	0.72	8.853	0.72	0.75	PASS
SWRGM-007796	SWRMH-001627	SWRMH-001628	27	350	0.0034	8.968	0.73	8.968	0.73	0.75	PASS
SWRGM-007797	SWRMH-006995	SWRMH-001629	24	385	0.0114	8.737	0.58	8.737	0.58	0.75	PASS
SWRGM-007798	SWRMH-001628	SWRMH-006609	27	350	0.0034	8.968	0.73	8.968	0.73	0.75	PASS
SWRGM-007799	SWRMH-001629	SWRMH-002569	24	385	0.0114	8.737	0.58	8.737	0.58	0.75	PASS
SWRGM-007936	SWRMH-001603	SWRMH-002622	18	266	0.0145	2.024	0.37	2.024	0.37	0.75	PASS
SWRGM-007937	SWRMH-002622	SWRMH-001604	18	352	0.0137	2.028	0.37	2.028	0.37	0.75	PASS
SWRGM-007938	SWRMH-001613	SWRMH-001603	18	232	0.0154	2.023	0.36	2.023	0.36	0.75	PASS
SWRGM-007939	SWRMH-009288	SWRMH-001614	18	39	0.0023	1.974	0.62	1.974	0.62	0.75	PASS
SWRGM-008193	SWRMH-006601	SWRNJ-000204	27	364	0.0214	9.193	0.42	9.193	0.42	0.75	PASS
SWRGM-008194	SWRMH-006602	SWRMH-006601	27	400	0.0258	9.193	0.40	9.193	0.40	0.75	PASS
SWRGM-008195	SWRMH-006604	SWRMH-006603	27	186	0.0038	9.083	0.71	9.083	0.71	0.75	PASS
SWRGM-008196	SWRMH-006607	SWRMH-006606	27	246	0.0033	9.082	0.75	9.082	0.75	0.75	PASS
SWRGM-008197	SWRMH-008210	SWRMH-007919	27	264	0.0095	10.584	0.57	10.584	0.57	0.75	PASS
SWRGM-008201	SWRMH-008204	SWRMH-008208	27	470	0.0087	9.768	0.56	9.768	0.56	0.75	PASS
SWRGM-008253	SWRMH-006609	SWRMH-006608	27	281	0.0032	8.968	0.75	8.968	0.75	0.75	PASS
SWRGM-008391	SWRMH-008226	SWRMH-008225	27	120	0.0173	10.584	0.48	10.584	0.48	0.75	PASS
SWRGM-008392	SWRMH-008225	SWRMH-008224	27	122	0.0171	10.584	0.48	10.584	0.48	0.75	PASS
SWRGM-008483	SWRMH-001602	SWRMH-001625	18	364	0.0168	2.121	0.36	2.121	0.36	0.75	PASS
SWRGM-008484	SWRMH-001614	SWRMH-001613	18	225	0.0087	1.975	0.41	1.975	0.41	0.75	PASS
SWRGM-008541	SWRMH-000877	SWRMH-008216	27	71	0.0091	10.584	0.58	10.584	0.58	0.75	PASS
SWRGM-008558	SWRMH-007134	SWRMH-007245	27	134	0.0095	9.762	0.54	9.762	0.54	0.75	PASS
SWRGM-008559	SWRMH-007251	SWRMH-007250	27	224	0.0050	9.766	0.67	9.766	0.67	0.75	PASS
SWRGM-008560	SWRMH-007252	SWRMH-007251	27	114	0.0242	9.766	0.42	9.766	0.42	0.75	PASS
SWRGM-008561	SWRMH-008205	SWRMH-007252	27	115	0.0167	9.766	0.46	9.766	0.46	0.75	PASS
SWRGM-008562	SWRMH-007248	SWRMH-008204	27	83	0.0048	9.767	0.68	9.767	0.68	0.75	PASS
SWRGM-008564	SWRMH-008208	SWRMH-008210	27	212	0.0094	10.584	0.57	10.584	0.57	0.75	PASS
SWRGM-008565	SWRMH-007919	SWRMH-007918	27	260	0.0098	10.584	0.57	10.584	0.57	0.75	PASS
SWRGM-008570	SWRMH-007918	SWRMH-008226	27	262	0.0166	10.584	0.48	10.584	0.48	0.75	PASS
SWRGM-008600	SWRMH-008224	SWRMH-000876	27	201	0.0282	10.584	0.42	10.584	0.42	0.75	PASS
SWRGM-008609	SWRMH-001604	SWRMH-001602	18	342	0.0150	2.029	0.36	2.029	0.36	0.75	PASS
SWRGM-008621	SWRMH-007113	SWRMH-007118	27	353	0.0083	9.765	0.57	9.765	0.57	0.75	PASS
SWRGM-008622	SWRMH-007118	SWRMH-007117	27	159	0.0080	9.766	0.57	9.766	0.57	0.75	PASS
SWRGM-008623	SWRMH-007117	SWRMH-007116	27	152	0.0084	9.766	0.56	9.766	0.56	0.75	PASS
SWRGM-008624	SWRMH-007116	SWRMH-008205	27	163	0.0150	9.766	0.48	9.766	0.48	0.75	PASS
SWRGM-008626	SWRMH-007245	SWRMH-007246	27	350	0.0099	9.762	0.54	9.762	0.54	0.75	PASS
SWRGM-008698	SWRMH-001625	SWRMH-001624	18	382	0.0015	2.121	0.77	2.121	0.77	0.75	FAIL
SWRGM-008702	SWRMH-001616	SWRMH-009063	24	350	0.0111	8.427	0.58	8.427	0.58	0.75	PASS
SWRGM-008703	SWRMH-001621	SWRMH-001618	18	44	0.0088	2.143	0.43	2.143	0.43	0.75	PASS
SWRGM-008704	SWRMH-001618	SWRMH-001617	24	94	0.0107	8.381	0.58	8.382	0.58	0.75	PASS
SWRGM-008705	SWRMH-001622	SWRMH-001621	18	400	0.0129	2.143	0.39	2.143	0.39	0.75	PASS
SWRGM-008706	SWRMH-001623	SWRMH-001622	18	388	0.0116	2.143	0.40	2.143	0.40	0.75	PASS
SWRGM-008707	SWRMH-001624	SWRMH-001623	18	74	0.0108	2.121	0.41	2.121	0.41	0.75	PASS
SWRGM-008708	SWRMH-001617	SWRMH-001616	24	253	0.0111	8.381	0.57	8.381	0.57	0.75	PASS
SWRGM-008709	SWRMH-007640	SWRMH-007639	24	350	0.0126	8.613	0.56	8.613	0.56	0.75	PASS
SWRGM-008714	SWRMH-007249	SWRMH-007248	27	81	0.0048	9.767	0.68	9.767	0.68	0.75	PASS
SWRGM-008715	SWRMH-007247	SWRMH-007249	27	117	0.0048	9.767	0.68	9.767	0.68	0.75	PASS
SWRGM-008716	SWRMH-007250	SWRMH-007247	27	144	0.0049	9.766	0.68	9.766	0.68	0.75	PASS

SWRGM-008742	SWRMH-006608	SWRMH-006607	27	449	0.0207	8.968	0.41	8.968	0.41	0.75	PASS
SWRGM-008748	SWRMH-006606	SWRMH-006605	27	265	0.0034	9.082	0.74	9.082	0.74	0.75	PASS
SWRGM-008749	SWRMH-006605	SWRMH-006604	27	336	0.0036	9.083	0.72	9.083	0.72	0.75	PASS
SWRGM-008750	SWRMH-006603	SWRMH-006602	27	350	0.0094	9.083	0.52	9.083	0.52	0.75	PASS
SWRGM-008778	SWRNJ-000111	SWRMH-001625	18	10	0.0080	0.000	0.00	0.000	0.00	0.75	PASS
SWRGM-009262	SWRMH-008216	SWRMH-008217	27	295	0.0076	10.584	0.62	10.584	0.62	0.75	PASS
SWRGM-009336	SWRNJ-000204	SWRMH-007134	30	31	0.0065	9.193	0.50	9.193	0.50	0.75	PASS
SWRGM-009442	SWRFT-000032	SWRMH-008686	12	10	0.0000	0.000	0.00	0.000	0.00	0.75	PASS
SWRGM-009448	SWRMH-008698	SWRMH-008697	27	497	0.0017	10.760	0.65	10.760	0.65	0.75	PASS
SWRGM-009450	SWRMH-008701	SWRMH-008700	27	809	0.0012	10.760	0.73	10.760	0.73	0.75	PASS
SWRGM-009453	SWRMH-008800	SWRMH-008798	27	500	0.0035	10.818	0.52	10.818	0.52	0.75	PASS
SWRGM-009454	SWRMH-008802	SWRMH-008800	27	500	0.0035	10.818	0.52	10.818	0.52	0.75	PASS
SWRGM-009469	SWRMH-008792	SWRMH-008790	27	500	0.0053	10.871	0.46	10.871	0.46	0.75	PASS
SWRGM-009473	SWRMH-008697	SWRMH-008696	27	401	0.0028	10.760	0.55	10.760	0.55	0.75	PASS
SWRGM-009481	SWRMH-008688	SWRMH-008687	27	397	0.0023	10.818	0.59	10.818	0.59	0.75	PASS
SWRGM-009493	SWRMH-008629	SWRMH-008628	27	500	0.0020	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009503	SWRMH-009300	SWRMH-009299	27	405	0.0020	10.584	0.61	10.584	0.61	0.75	PASS
SWRGM-009510	SWRMH-009289	SWRMH-008645	27	438	0.0020	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009512	SWRMH-008778	SWRMH-008776	27	500	0.0020	10.871	0.62	10.871	0.62	0.75	PASS
SWRGM-009518	SWRMH-008632	SWRMH-008631	27	314	0.0020	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009520	SWRMH-008788	SWRMH-008785	27	300	0.0020	10.871	0.62	10.871	0.62	0.75	PASS
SWRGM-009524	SWRMH-008739	SWRMH-008737	27	250	0.0014	10.870	0.69	10.870	0.69	0.75	PASS
SWRGM-009526	SWRMH-008767	SWRMH-008765	27	500	0.0072	10.870	0.42	10.870	0.42	0.75	PASS
SWRGM-009538	SWRFT-000031	SWRMH-008686	12	10	0.0000	0.000	0.00	0.000	0.00	0.75	PASS
SWRGM-009552	SWRMH-008751	SWRMH-008749	27	358	0.0015	10.870	0.68	10.870	0.68	0.75	PASS
SWRGM-009554	SWRMH-008810	SWRMH-008808	27	512	0.0031	10.818	0.54	10.818	0.54	0.75	PASS
SWRGM-009568	SWRMH-008638	SWRMH-008639	27	351	0.0020	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009571	SWRMH-008644	SWRMH-008643	27	438	0.0020	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009572	SWRMH-008794	SWRMH-008792	27	500	0.0054	10.871	0.45	10.871	0.45	0.75	PASS
SWRGM-009576	SWRMH-008703	SWRMH-008702	27	82	0.0022	10.760	0.59	10.760	0.59	0.75	PASS
SWRGM-009592	SWRMH-008747	SWRMH-008745	27	600	0.0015	10.870	0.68	10.870	0.68	0.75	PASS
SWRGM-009597	SWRMH-008796	SWRMH-008794	27	500	0.0035	10.871	0.52	10.871	0.52	0.75	PASS
SWRGM-009612	SWRMH-008780	SWRMH-008778	27	381	0.0020	10.871	0.62	10.871	0.62	0.75	PASS
SWRGM-009627	SWRMH-008765	SWRMH-008763	27	500	0.0072	10.870	0.42	10.870	0.42	0.75	PASS
SWRGM-009635	SWRMH-008702	SWRMH-008701	27	430	0.0023	10.760	0.59	10.760	0.59	0.75	PASS
SWRGM-009647	SWRMH-009292	SWRMH-009291	27	442	0.0020	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009654	SWRMH-008755	SWRMH-008753	27	500	0.0015	10.870	0.68	10.870	0.68	0.75	PASS
SWRGM-009656	SWRMH-008700	SWRMH-008699	27	433	0.0021	10.760	0.60	10.760	0.60	0.75	PASS
SWRGM-009657	SWRMH-009282	SWRMH-009288	8	257	0.0155	0.025	0.12	0.025	0.12	0.75	PASS
SWRGM-009663	SWRMH-008776	SWRMH-008773	27	500	0.0020	10.871	0.62	10.871	0.62	0.75	PASS
SWRGM-009668	SWRMH-009293	SWRMH-009292	27	320	0.0020	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009680	SWRMH-009297	SWRMH-009296	27	438	0.0020	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009681	SWRMH-008689	SWRMH-008688	27	500	0.0023	10.818	0.59	10.819	0.59	0.75	PASS
SWRGM-009684	SWRMH-009298	SWRMH-009297	27	438	0.0020	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009688	SWRMH-008815	SWRMH-008813	27	250	0.0034	10.818	0.52	10.818	0.52	0.75	PASS
SWRGM-009689	SWRMH-008692	SWRMH-008691	27	500	0.0023	10.760	0.59	10.760	0.59	0.75	PASS
SWRGM-009699	SWRMH-009283	SWRMH-009282	8	280	0.0045	0.023	0.15	0.023	0.15	0.75	PASS
SWRGM-009702	SWRMH-008690	SWRMH-008689	27	500	0.0023	10.819	0.59	10.819	0.59	0.75	PASS
SWRGM-009707	SWRMH-008704	SWRMH-008703	27	284	0.0030	10.760	0.54	10.760	0.54	0.75	PASS
SWRGM-009723	SWRMH-008757	SWRMH-008755	27	500	0.0022	10.870	0.60	10.870	0.60	0.75	PASS
SWRGM-009725	SWRMH-008642	SWRMH-008641	27	397	0.0020	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009743	SWRMH-008806	SWRMH-008804	27	439	0.0035	10.818	0.52	10.818	0.52	0.75	PASS
SWRGM-009744	SWRMH-008687	SWRMH-008686	27	397	0.0031	10.818	0.53	10.818	0.53	0.75	PASS
SWRGM-009759	SWRMH-008631	SWRMH-008630	27	309	0.0020	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009760	SWRMH-008808	SWRMH-008806	27	401	0.0039	10.818	0.50	10.818	0.50	0.75	PASS
SWRGM-009767	SWRMH-008639	SWRMH-008634	27	504	0.0020	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009793	SWRMH-008749	SWRMH-008747	27	358	0.0015	10.870	0.68	10.870	0.68	0.75	PASS
SWRGM-009798	SWRMH-008637	SWRMH-008638	27	351	0.0020	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009801	SWRMH-008686	SWRMH-008817	27	250	0.0034	10.818	0.52	10.818	0.52	0.75	PASS
SWRGM-009808	SWRMH-008633	SWRMH-008632	27	560	0.0020	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009813	SWRMH-009290	SWRMH-009289	27	442	0.0020	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009834	SWRMH-008693	SWRMH-008692	27	500	0.0023	10.760	0.59	10.760	0.59	0.75	PASS
SWRGM-009847	SWRMH-009299	SWRMH-009298	27	438	0.0020	10.584	0.61	10.584	0.61	0.75	PASS
SWRGM-009849	SWRMH-009287	SWRMH-009286	8	346	0.0054	0.005	0.07	0.005	0.07	0.75	PASS
SWRGM-009850	SWRMH-009294	SWRMH-009293	27	500	0.0020	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009866	SWRMH-008769	SWRMH-008767	27	500	0.0072	10.870	0.42	10.870	0.42	0.75	PASS
SWRGM-009867	SWRMH-009296	SWRMH-009295	27	438	0.0020	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009885	SWRMH-008630	SWRMH-008629	27	500	0.0020	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009890	SWRMH-008781	SWRMH-008780	27	499	0.0020	10.871	0.62	10.871	0.62	0.75	PASS
SWRGM-009895	SWRMH-008691	SWRMH-008690	27	500	0.0023	10.819	0.59	10.819	0.59	0.75	PASS
SWRGM-009902	SWRMH-008627	SWRMH-008626	27	500	0.0020	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009914	SWRMH-008640	SWRMH-008635	27	311	0.0020	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009919	SWRMH-008623	SWRMH-008704	27	306	0.0036	10.760	0.51	10.760	0.51	0.75	PASS
SWRGM-009922	SWRMH-009285	SWRMH-009284	8	343	0.0047	0.014	0.12	0.014	0.12	0.75	PASS
SWRGM-009924	SWRMH-008763	SWRMH-008761	27	500	0.0072	10.870	0.42	10.870	0.42	0.75	PASS
SWRGM-009932	SWRMH-008798	SWRMH-008796	27	476	0.0045	10.871	0.48	10.871	0.48	0.75	PASS
SWRGM-009942	SWRMH-008645	SWRMH-008644	27	438	0.0020	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009946	SWRMH-008804	SWRMH-008802	27	440	0.0035	10.818	0.52	10.818	0.52	0.75	PASS
SWRGM-009952	SWRMH-008735	SWRMH-008733	27	500	0.0015	10.870	0.68	10.870	0.68	0.75	PASS
SWRGM-009954	SWRMH-009284	SWRMH-009283	8	324	0.0048	0.019	0.14	0.019	0.14	0.75	PASS
SWRGM-009961	SWRMH-008699	SWRMH-008698	27	519	0.0017	10.760	0.65	10.760	0.65	0.75	PASS
SWRGM-009971	SWRMH-008817	SWRMH-008815	27	250	0.0034	10.818	0.52	10.818	0.52	0.75	PASS
SWRGM-009982	SWRMH-009295	SWRMH-009294	27	496	0.0020	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009985	SWRMH-008628	SWRMH-008627	27	500	0.0020	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-009998	SWRMH-008771	SWRMH-008769	27	500	0.0020	10.870	0.62	10.870	0.62	0.75	PASS
SWRGM-009999	SWRMH-008753	SWRMH-008751	27	499	0.0015	10.870	0.68	10.870	0.68	0.75	PASS
SWRGM-010023	SWRMH-009303	SWRMH-009302	27	375	0.0021	10.584	0.60	10.584	0.60	0.75	PASS

SWRGM-010051	SWRMH-008643	SWRMH-008642	27	397	0.0020	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-010063	SWRMH-008745	SWRMH-008743	27	580	0.0015	10.870	0.68	10.870	0.68	0.75	PASS
SWRGM-010078	SWRMH-008743	SWRMH-008741	27	261	0.0015	10.870	0.69	10.870	0.69	0.75	PASS
SWRGM-010086	SWRMH-008636	SWRMH-008637	27	351	0.0020	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-010094	SWRMH-008759	SWRMH-008757	27	500	0.0071	10.870	0.42	10.870	0.42	0.75	PASS
SWRGM-010102	SWRMH-008694	SWRMH-008693	27	423	0.0027	10.760	0.56	10.760	0.56	0.75	PASS
SWRGM-010105	SWRMH-008634	SWRMH-008633	27	504	0.0020	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-010113	SWRMH-008731	SWRMH-008729	27	500	0.0015	10.870	0.68	10.870	0.68	0.75	PASS
SWRGM-010122	SWRMH-008761	SWRMH-008759	27	388	0.0072	10.870	0.42	10.870	0.42	0.75	PASS
SWRGM-010125	SWRMH-009291	SWRMH-009290	27	442	0.0020	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-010130	SWRMH-008626	SWRMH-008625	27	500	0.0020	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-010132	SWRMH-008741	SWRMH-008739	27	350	0.0015	10.870	0.68	10.870	0.68	0.75	PASS
SWRGM-010141	SWRMH-008695	SWRMH-008694	27	381	0.0030	10.760	0.54	10.760	0.54	0.75	PASS
SWRGM-010155	SWRMH-008785	SWRMH-008783	27	300	0.0020	10.871	0.62	10.871	0.62	0.75	PASS
SWRGM-010159	SWRMH-008624	SWRMH-008623	27	588	0.0038	10.695	0.50	10.696	0.50	0.75	PASS
SWRGM-010163	SWRMH-008783	SWRMH-008781	27	500	0.0020	10.871	0.62	10.871	0.62	0.75	PASS
SWRGM-010165	SWRMH-008729	SWRMH-008727	27	314	0.0015	10.870	0.69	10.870	0.69	0.75	PASS
SWRGM-010174	SWRMH-008773	SWRMH-008771	27	470	0.0020	10.870	0.62	10.871	0.62	0.75	PASS
SWRGM-010183	SWRMH-008733	SWRMH-008731	27	500	0.0015	10.870	0.68	10.870	0.68	0.75	PASS
SWRGM-010200	SWRMH-008625	SWRMH-008624	27	500	0.0036	10.695	0.51	10.696	0.51	0.75	PASS
SWRGM-010201	SWRMH-008727	SWRNJ-000196	27	73	0.0027	11.161	0.57	11.161	0.57	0.75	PASS
SWRGM-010226	SWRMH-008813	SWRMH-008811	27	287	0.0035	10.818	0.52	10.818	0.52	0.75	PASS
SWRGM-010231	SWRMH-008696	SWRMH-008695	27	163	0.0050	10.760	0.46	10.760	0.46	0.75	PASS
SWRGM-010232	SWRMH-009301	SWRMH-009300	27	236	0.0019	10.584	0.61	10.584	0.61	0.75	PASS
SWRGM-010252	SWRMH-008635	SWRMH-008636	27	311	0.0020	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-010253	SWRMH-009286	SWRMH-009285	8	345	0.0048	0.010	0.10	0.010	0.10	0.75	PASS
SWRGM-010256	SWRMH-000296	SWRMH-009303	27	314	0.0032	10.584	0.52	10.584	0.52	0.75	PASS
SWRGM-010258	SWRMH-008790	SWRMH-008788	27	275	0.0020	10.871	0.62	10.871	0.62	0.75	PASS
SWRGM-010263	SWRMH-008641	SWRMH-008640	27	397	0.0020	10.696	0.61	10.696	0.61	0.75	PASS
SWRGM-010266	SWRMH-008737	SWRMH-008735	27	500	0.0015	10.870	0.68	10.870	0.68	0.75	PASS
SWRGM-010277	SWRMH-008811	SWRMH-008810	27	446	0.0035	10.818	0.52	10.818	0.52	0.75	PASS
SWRGM-010285	SWRMH-009302	SWRMH-009301	27	241	0.0019	10.584	0.61	10.584	0.61	0.75	PASS