LEVEL 'A' PLANNED COMMUNITY TECHNICAL REPORT

FOR

SANTOLINA LEVEL 'A' MASTER PLAN

WASTEWATER (SANITARY SEWER) MASTER PLAN

NOVEMBER 4, 2014 (REVISED WITH ADDENDUM)
AUGUST 26, 2013 (ORIGINAL SUBMITTAL)

Prepared For:

Western Albuquerque Land Holdings, LLC
P.O. Box 56790
Albuquerque, NM 87187

Prepared By:

Bohannan Huston
Engineering
Spatial Data
Advanced Technologies

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WESTERN ALBUQUERQUE LAND HOLDINGS, LLC (WALH)

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ALBUQUERQUE, NM 87187

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James R. Topmiller, P.E. Date

JAMES R. TOPMILLER NEW MEXICO 9364 REGISTERED PROFESSIONAL ENGINEER

Bohannan Huston

I. INTRODUCTION

The Santolina Level A Wastewater (Sanitary Sewer) Master Plan report was submitted to the County and the ABCWUA (Water Authority) in August 2013 under Planned Communities Criterial guidelines.

During the County Planning Commission (CPC) process, which included significant public agency and staff review efforts and public hearings, revisions to the master plan land uses and roadway network were suggested and accepted. Additionally, the Water Authority provided documentation during the CPC process regarding water and sewer serviceability to Santolina, as well as comments regarding the conceptual design and layout of the sanitary sewer system.

Such revisions occurring during the public process is anticipated due to the number and volume of commenting agencies and public input to the master plan. The Santolina applicant concurred with many of the suggested revisions and has committed to appropriate future actions to address concerns and/or revisions.

In keeping with the strategy of revisions to the Santolina technical appendices, this Addendum addresses comments made during the hearing process by supplying new or revised text, adjusted calculations or graphics, without fully revising the original submitted report.

This Addendum for the Santolina Wastewater (Sanitary Sewer) Master Plan updates and addresses the impact of the above revisions to wastewater master planning in Santolina, and supplies an approach for moving forward beyond the Level A process.

II. PLANNED COMMUNITIES CRITERIA

The Bernalillo County Planned Community Criteria (PCC) defines the level of regulatory detail required for Master Plan submittals. The Level A submittal is the initial submittal and establishes the overall goals of the Master Plan, which will be developed further in Level B and Level C submittals.

The Santolina Level A Wastewater (Sanitary Sewer) Master Plan analysis is required by the PCC to provide a “conceptual strategy for providing utilities’.

Future Level B submittals, in accordance with the PCC, are required to provide a “facilities plan” for water and sewer systems.

III. CPC PROCESS: LEVEL A WASTEWATER (SANITARY SEWER) MASTER PLAN REVISIONS

A. LAND USE PLAN REVISIONS.

As part of the CPC process, County staff and public agencies requested several significant revisions to the transportation network and/or land use planning, including the following which affects the analysis and graphics:

- The 'gridding' of several major arterial roadways, most significantly Paseo del Volcan, Dennis Chaves and Atrisco Vista.
- Relocation of (and enlargement of) the Urban Center to fully reside in the northwest quadrant of Atrisco Vista and Dennis Chaves, extending to Paseo del Volcan.
- Additional defined connectivity to adjacent lands, including Gun Club extension, Gibson extension, Dennis Chaves and more.
- Creation of a new parallel roadway south of the I40 Frontage Road, within the Santolina Master Plan area.

As the above suggests, these revisions to the roadway network and land uses will only mildly affect the conceptual Level A wastewater system layout (primarily utility alignments and corridors) and report information of the August 26, 2013 Level A Wastewater (Sanitary Sewer) Master Plan.

B. COMMENTS AND CONDITIONS FROM THE WATER AUTHORITY

The Water Authority provided comments and conditions during the CPC process. These were largely supplied in a July 29, 2014 letter to the CPC Chair, please refer to attached letter. The key aspects of that letter is summarized and provided in the section immediately below, also substantially being the Wastewater section text from the Santolina Master Plan document.

IV. CURRENT STATUS AND COMMITMENTS OF THE SANTOLINA WASTEWATER (SANITARY SEWER) MASTER PLAN

The ABCWUA has provided a letter dated July 29, 2014, indicating they have the capability and capacity to serve the Santolina Master Plan as it develops over its 40-50 year build out, please refer to this (attached) for applicable comments to the Wastewater Master Plan. Accordingly, Santolina anticipates receiving service from ABCWUA for sanitary sewer collection and treatment. Santolina has prepared a conceptual-level Wastewater (Sanitary Sewer) Master Plan (Wastewater Master Plan) for providing wastewater service to

Santolina. This conceptual plan does not represent the final, optimized ABCWUA wastewater system for the Santolina Plan Area.

The Master Plan Area is currently undeveloped. Therefore, no operational sewer systems or utility districts are in place. However, there are several existing wastewater systems in close proximity to the Master Plan Area.

- The Tierra West residential community, located at Atrisco Vista and Central Avenue is served by a 15 inch ABCWUA wastewater line. The line extends across I-40 serving Cordero Mesa Business Park and surrounding lands.
- A 10-15 inch wastewater line is located along Dennis Chavez Boulevard to Atrisco Vista. This line provides service to the recently completed Atrisco Heritage High School.

The Wastewater Master Plan has been prepared with service options that potentially serve Santolina from three primary existing wastewater outfalls:

- The majority of the Master Plan Area drains south and east towards the Dennis Chavez Boulevard/Atrisco Vista intersection. At this location, flows can be directed to an existing interceptor in Dennis Chavez Boulevard on a temporary basis, as approved by the ABCWUA, or to a potential future satellite reclamation plant in the southern portion of the master plan.
- A small area of Santolina within the northeast drains south and east into the existing ABCWUA wastewater system.
- A small area of Santolina within the southeast can be served by future extensions of the ABCWUA system in the Gun Club/Coors area to the east.

Details of the benefits and challenges at each outfall are described further in the original August 2013 Wastewater Master Plan.

As with other major infrastructure systems that are necessary to service Santolina, the Wastewater Master Plan has been prepared with the 2035 Projected Development Plan concept in mind, followed by the Full Buildout scenario.

The Santolina Wastewater (Sanitary Sewer) Master Plan Technical Report has been developed to support the Level A Master Plan and is available separately from the Master Plan submittal. This technical report outlines data that has been studied and details how to serve the Master Plan Area wastewater flow and treatment requirements.

A serviceability letter, dated July 29, 2014, identifying wastewater availability to Santolina has been provided by the ABCWUA. The final wastewater master plan,

identifying design parameters, phasing and construction details, is subject to future ABCWUA service requirements and development agreements.

V. CONCLUSION

The Santolina Level A Wastewater (Sanitary Sewer) Master Plan report satisfied the PCC requirements for provision of a 'conceptual strategy for (wastewater) utilities' to the planned Level A community. As noted by the Water Authority, additional comments, conditions and requirements for the system are forthcoming in the future.

The body of the Master Plan will remain as originally submitted in August 2013, except for the supplemental addition of this explanatory Addendum. This approach is justified because the Water Authority has not yet developed final wastewater system plans for the Santolina area, and therefore there is no definitive guidance for master plan revisions at this time. Further, the Master Plan continues to supply a general guideline for wastewater system approaches, especially conceptual-level onsite system layouts. General system usage and demand data is also available in the Plan as written.

However, where conflicts exist between this Addendum and the original Master Plan report, this Addendum shall govern.

The following plans and information are provided with and made a part of this Addendum:

- Revised Land Use Master Plan.
- Revised Conceptual Wastewater (Sanitary Sewer) Master Plan- Full Build
- Revised Conceptual Wastewater (Sanitary Sewer) Master Plan- 2035 Projected Development.
- Water Authority letter, dated July 29, 2014.

This Addendum has provided an update to the Wastewater Master Plan and addressed the conditions and requirements for Santolina development planning to continue in the future.

Exhibit 7: Land Use Plan

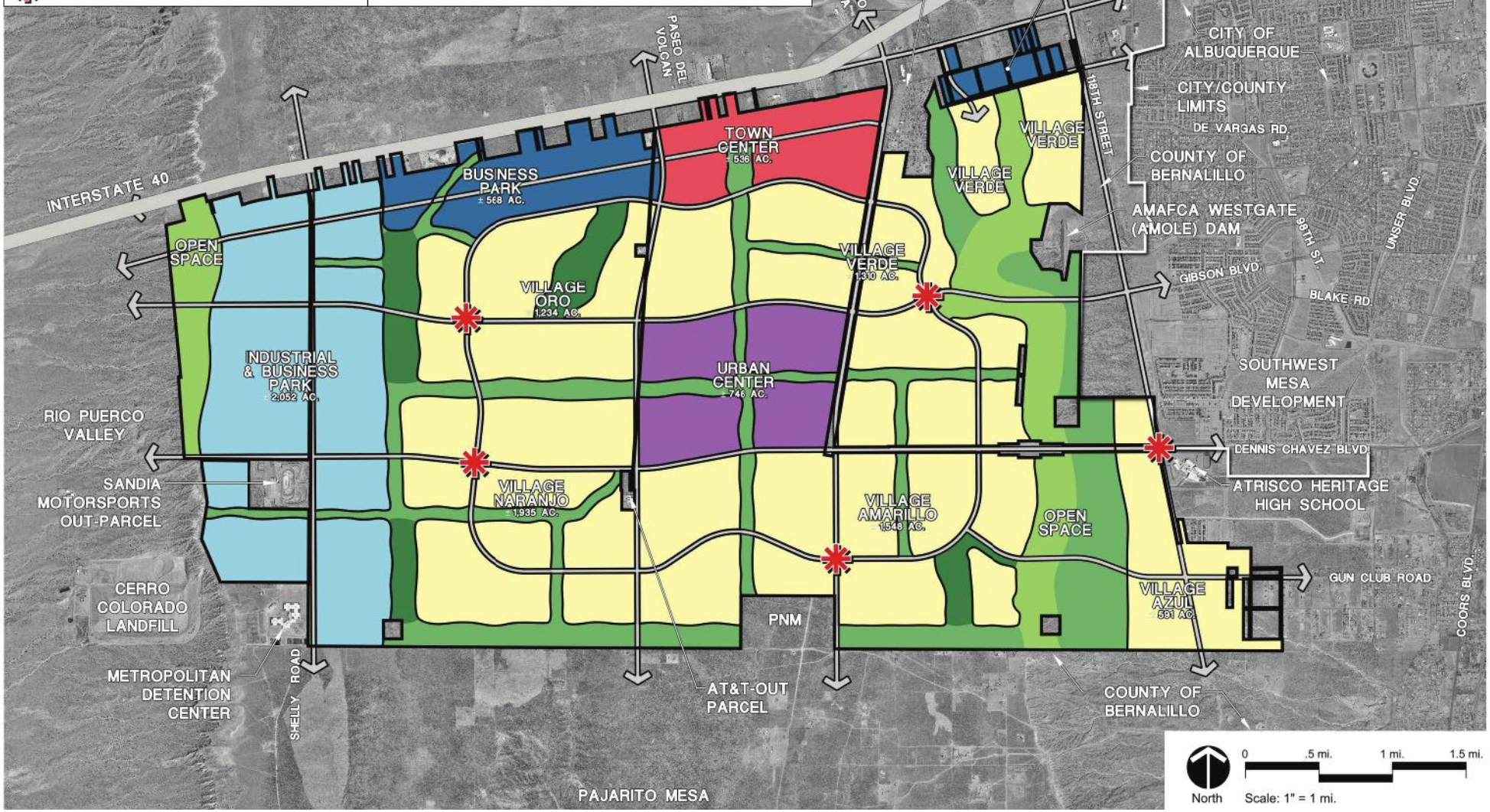
LEGEND

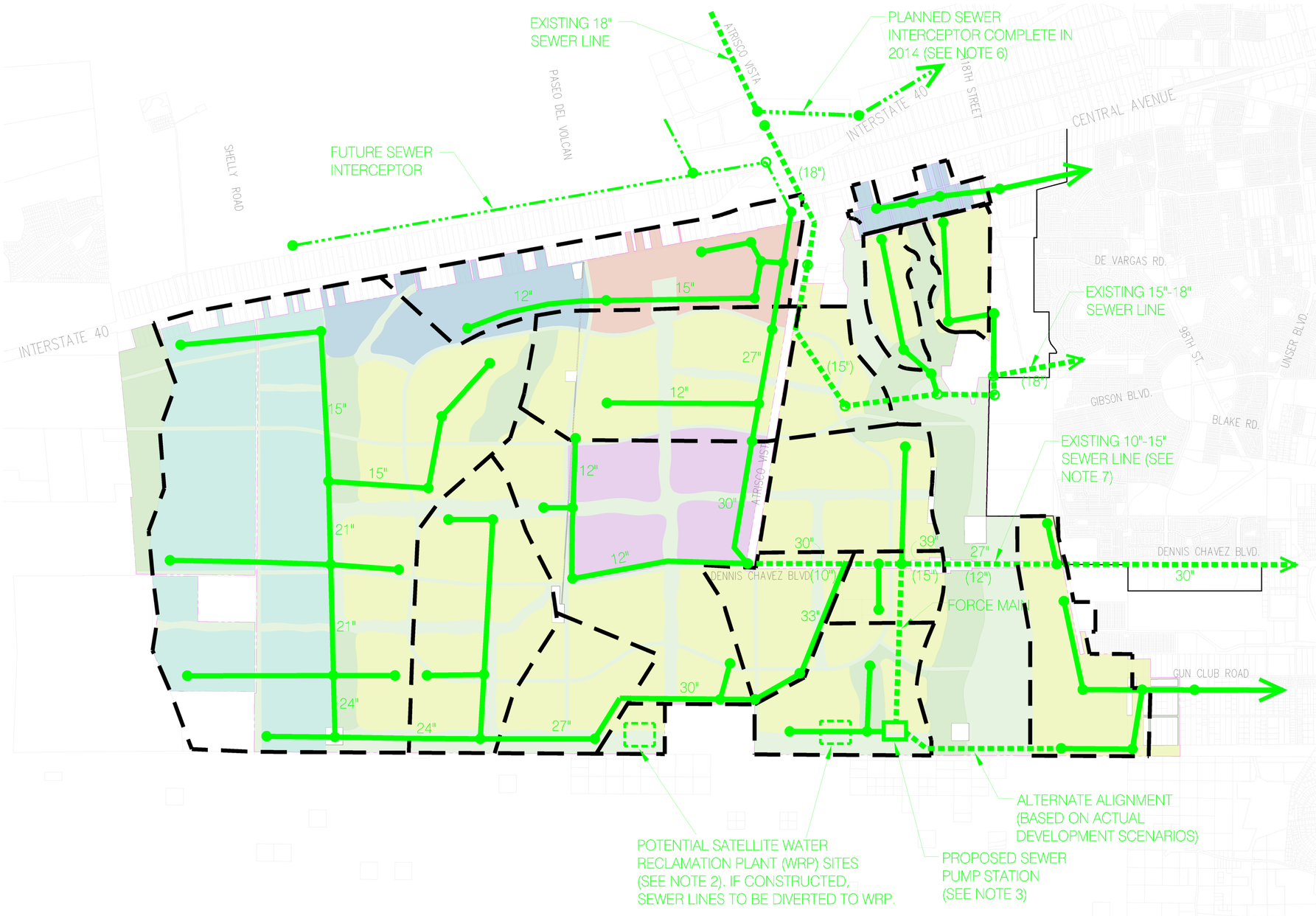
Land Use	Acreage	% Of Site
Village	6,618 acres	48%
Industrial & Business Park	2,052 acres	15%
Major Public Open Space	940 acres	7%
Regional Parks	466 acres	3%
Open Space	1,797 acres	13%
Urban Center	746 acres	5%
Business Park	697 acres	5%
Town Center	536 acres	4%
Total:	13,851 acres	

Village Center (Proposed location)

NOTES

1. Acreage numbers include right-of-way and Village Centers.
2. Roads are preliminary. Interstate 40 interchanges at 118th Street, Atrisco Vista, Paseo Del Volcan, Shell Road and frontage roads shall be by others.
3. Boundaries between uses are approximate. Final parcel boundaries and acreage amounts will be determined by plat and Level B and C plans.
4. Village, land use and open space boundaries are approximate and will be adjusted at Level B and C plans to reflect actual locations of roadways, utilities, easements, drainage and other infrastructure.





NOTES:

1. ALL SEWER LINE ALIGNMENTS AND SIZES ARE APPROXIMATE AND ILLUSTRATIVE, SUBJECT TO CHANGE.
2. FUTURE ABCWUA POLICIES MAY SEEK CONSTRUCTION OF SATELLITE WRP'S ON THE "FAR WEST MESA". ONLY ONE WRP IS ANTICIPATED FOR SANTOLINA IF FUTURE WUA POLICIES PROCEED IN THIS DIRECTION.
3. SEWER PUMP STATION MAY BE REMOVED IF / WHEN WRP IS CONSTRUCTED IN THE FUTURE.
4. THE PAJARITO MESA AREA, SOUTH OF SANTOLINA, IS PROJECTED TO BE SERVED BY ONSITE TREATMENT SYSTEMS PRIMARILY.
5. FINAL SEWER SYSTEM CONFIGURATION SHALL BE DETERMINED BY APPROPRIATE LEVEL B MASTER PLANS, APPROVED BY THE WATER AUTHORITY.
6. PLANNED INTERCEPTOR WILL EXTEND SOUTH ON EITHER 118TH STREET OR 98TH STREET CORRIDORS.
7. THE EXISTING DENNIS CHAVEZ BLVD. SEWERLINE WILL REQUIRE UPSIZING (OR PARALLEL LINES).

LEGEND

- PROPOSED SEWER LINE
- EXISTING SEWER LINE & SIZE ( )
- FUTURE SEWER LINE
- SEWER BASIN LINES

NORTH 1000 0 2000 4000

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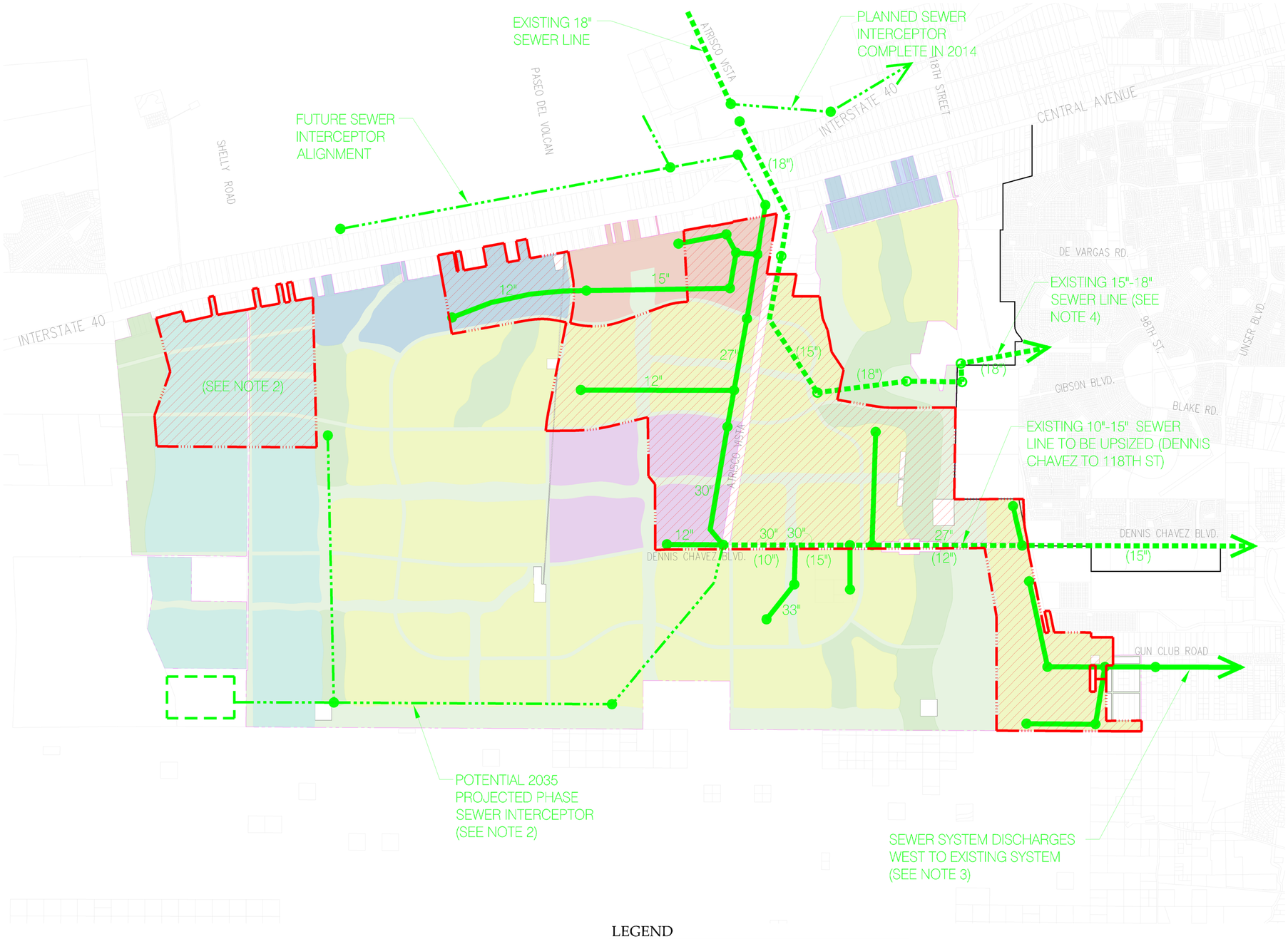

NOTES:

1. ALL SEWER LINE ALIGNMENTS AND SIZES ARE APPROXIMATE AND ILLUSTRATIVE, SUBJECT TO CHANGE.

2. 2035 PROJECTED DEVELOPMENT PHASE 1 OF THE INDUSTRIAL & ENERGY PARK SHALL BE SERVED BASED ON PERTINENT CIRCUMSTANCES AT THE TIME OF ACTUAL DEVELOPMENT. SERVICE OPTIONS INCLUDE:
   (A) CONSTRUCTION OF POTENTIAL 2035 PROJECTED DEVELOPMENT PHASE SEWER INTERCEPTOR
   (B) TEMPORARY PUMPING TO EXISTING SYSTEMS TO THE EAST (IN BUSINESS PARK)
   (C) ONSITE TREATMENT & DISPOSAL SYSTEMS.
   SEE ALSO NOTE 3.

3. FINAL SEWER SYSTEM CONFIGURATION SHALL BE DETERMINED BY APPROPRIATE LEVEL B MASTER PLANS, APPROVED BY THE WATER AUTHORITY.

4. THIS EXISTING 15"-18" SEWER MAY BE TEMPORARILY AVAILABLE FOR INITIAL 'SPOT' DEVELOPMENT IN THE TOWN CENTER, BUSINESS PARK AND/ OR RESIDENTIAL LANDS.

LEGEND

- PROPOSED SEWER LINE
- EXISTING SEWER LINE & SIZE ( )
- FUTURE SEWER LINE
- 2035 PROJECTED DEVELOPMENT BOUNDARY
- 2035 PROJECTED DEVELOPMENT

NORTH 1000 0 2000 4000

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Albuquerque Bernalillo County
Water Utility Authority

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July 29, 2014

Joe Chavez, Chair
Bernalillo County Planning Commission
111 Union Square St. SE Suite 100
Albuquerque, NM 87102

RE: Santolina Master Plan

Dear Mr. Chavez:

Regarding the Planned Communities Level A Master Plan called the Santolina Master Plan, the Albuquerque Bernalillo County Water Utility Authority (Water Authority) has been asked whether it can serve this area as it develops over time. The Water Authority is capable of serving the master planned community. However, that service will be contingent upon the Santolina developer's ability to comply with the Water Authority's current guidelines, policies and ordinances, as amended from time to time.

If the CPC decides to recommend approval of the master plan, the Water Authority recommends that the CPC provide conditional approval which requires that the developer successfully execute a development agreement with the Water Authority for the Santolina Master Plan. Water Authority ordinances require that a land use master plan be approved prior to the Water Authority providing service to a master planned community outside its service area. The development agreement will specify the requirements and conditions of service. It is through this agreement that the planned community criteria will be addressed.

In order for Santolina to be served by the Water Authority, the developer will need to provide significant infrastructure improvements, and the expansion will need to occur at no net expense to the existing rate payers. Therefore, Santolina will need to be a sustainable, self-sufficient development in terms of water and wastewater treatment resources including the utilization of direct or indirect potable reuse and each new connection will be subject to a water supply charge. Moreover, to better manage and protect the Water Authority's water sources, the developer will also need to submit a Phasing Plan which is consistent with Water Authority policy that service expansion must be phased in an orderly manner through adjacent pressure zones. Finally, the developer will be required to incorporate into the Santolina planning documents water conservation guidelines designed so that each user can

achieve water usage of 180 gallons per household for an average day, which is equivalent to 75 gallons per capita per day. Design documents will need to be stamped by a Registered New Mexico Professional Engineer confirming that the proposed methodology will indeed meet the 180 gallons per household per day water usage.

If the Santolina Level A Master Plan is approved by the Bernalillo County Commission, only then will Water Authority staff proceed in negotiating a draft development agreement with the developer. Of course, final approval of any development agreement requires formal action by the Water Authority governing board.

Sincerely,

Mark S. Sanchez
Executive Director

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Prepared by: _____

Christian J. Sholtis, P.E. Date

Reviewed by: _____ 8.21.13

James R. Topmiller, P.E. Date

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EXHIBITS

Santolina Level 'A' Master Plan (as submitted to County)
Land Use Map (Ultimate Buildout)
Ultimate Buildout Sewer Basin Map
2035 Projected Development Plan Sewer Basin Map
Ultimate Buildout Sanitary Sewer System
2035 Projected Development Plan Sanitary Sewer System

APPENDICES

Appendix A – Demand Forecaster Output
Appendix B – PCSWMM Output
Appendix C – PCSWMM Daily Pattern Input File Data by Basin(.dat)
Appendix D – Previous Report Excerpt (Land Use Map)

I. INTRODUCTION

The Santolina Level 'A' Master Plan Community ("Santolina") currently lies within the operational area of the Albuquerque Bernalillo County Water Utility Authority (WUA), within Bernalillo County but outside of the adopted water and sanitary sewer service area. Accordingly, as with water service, Santolina will petition to be served by the WUA for sanitary sewer collection and treatment service. As development within Santolina occurs, formal requests to the WUA Board will be required to expand the sanitary sewer service area to match the proposed development pace and activities.

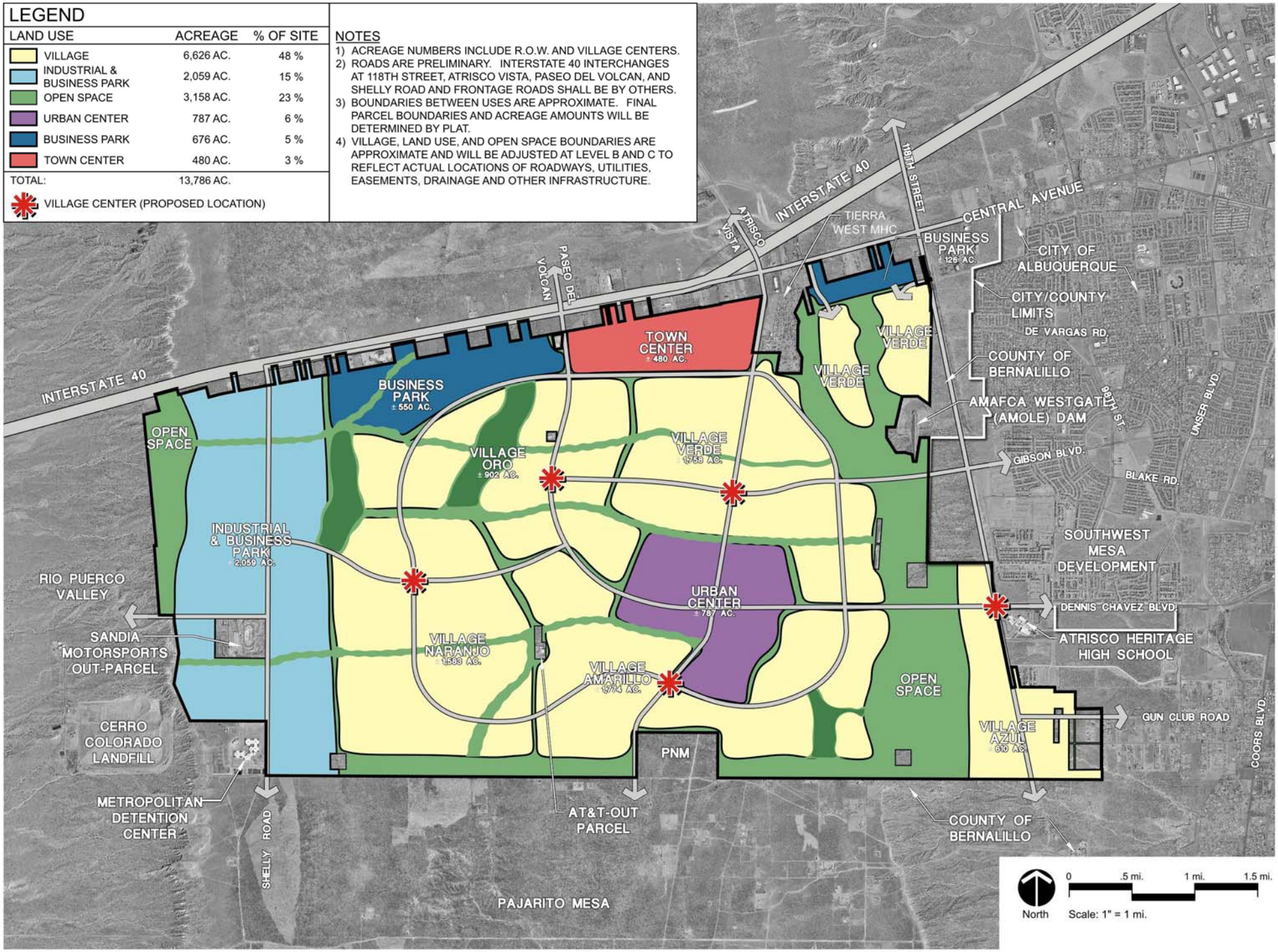
The Santolina Planned Community Level 'A' Master Plan (the "Santolina Master Plan") covers approximately 13,700 acres of land owned by Western Albuquerque Land Holdings ("WALH"). Santolina is located on the Southwest Mesa and is generally bounded by I-40 to the north, the Atrisco Terrace open space and the area around 188th Street on the east, the grand boundary separating this property from Pajarito Mesa on the south, and the Ceja Escarpment area separating this property from the Rio Puerco Valley on the west.

The Santolina plan area has been the subject of planning efforts, but this property has never been covered by an approved master plan. All of the lands in the Santolina Master Plan are located outside the municipal boundaries of the City of Albuquerque within the Southwest Planning Area of Bernalillo County. The existing zoning of the property is primarily County A-1, with some parcels near I-40 and Central Avenue having C-1 and M-1 zoning.

This Level 'A' Master Plan follows the Planned Community Criteria as adopted and amended by the Board of County Commission in 2012. The Level 'A' Master Plan is accompanied by a simultaneous request for Planned Community Zoning that is defined within this Master Plan.

"The Santolina Community is envisioned to have 37,930 residential units at full build-out; a potential population of 95,000, approximately 77,000 jobs, 2.0 jobs per household, and over 3,100 acres of parks and open space."

The <u>conceptual sanitary sewer system</u> proposed herein is consistent with the Albuquerque Bernalillo County Water Utility Authority's criteria and operational methodology for the general wastewater system. Research and planning for Santolina's sanitary sewer master plan included meeting with WUA staff to generally discuss and review service concepts.



Santolina Level 'A' Master Plan (as submitted to County)

This report addresses sanitary sewer service and infrastructure for the Santolina Level 'A' Master Planning area of WALH lands, as needed to provide sanitary sewer service to the master plan area (see exhibits entitled "Land Use Map" and "Santolina Master Plan"). Future Level 'B' and 'C' Master plans will provide additional and sufficient detail to the sewer system information. At that time, the conceptual system presented herein may be revised as needed.

II. PURPOSE

The purpose of this study and report is to guide the design and construction of both imminent and long term sanitary sewer infrastructure within the master planning area. This report is submitted in support of Master Plan approval.

As with prior related reports, the capacity of the sewer system beyond the extents of this study is not addressed.

III. RELATED STUDIES

The previously approved studies relating to this study area, and updated herein, include the following:

"Western Albuquerque Land Holdings, Wastewater Master Plan 2012 Update," a design analysis report (DAR) prepared by Bohannan Huston, Inc. and dated December 2012. This update included the Santolina Master Plan Area utilizing preliminary land uses at that time. This study and DAR identified the major sewer outfalls for the master plan area as the Dennis Chavez sewer interceptor and the Westgate Dam interceptor, and identified required upsizing of these systems as needed to serve the master planning area as well as the surrounding area including WALH lands located north of I-40. This DAR was approved in April 2013, identifying the 118th Street alignment as the approved sewer interceptor corridor.

Additionally, the ABCWUA's "*Integrated Infrastructure Planning*" (IIP) study (CDM Smith/Bohannan Huston) is currently ongoing and just beginning to focus on the Southwest Mesa. This study has worked with ABCWUA and CDM Smith/BH project managers to ensure current coordination and future compatibility between the study efforts.

IV. ANALYSIS METHODOLOGIES & KEY CRITERIA

As mentioned previously, this study updates previously prepared studies by incorporating the most recent accepted advances and data in the following categories:

A. SANITARY SEWER FLOW GENERATION (DEMAND)

Consistent with efforts of the ABCWUA Integrated Infrastructure Plan (IIP) project, a new water and sewer flow model to calculate flows was developed and named 'Demand Forecaster' and was utilized to determine sanitary sewer flows generated by the planning area. The Demand Forecaster (DF) is a tool to project water, sewer and reclaimed water demands by area within the service limits of the Albuquerque Bernalillo County Water Utility Authority (ABCWUA). For the purposes of this study, only the sanitary sewer flow output was used.

CDM Smith/BHI developed the DF tool as part of the ABCWUA IIP. The IIP evaluates water, sewer, and reuse systems together to most effectively preserve scarce water resources. The DF, developed on a GIS platform, ties parcel and land use information to water billing records to summarize by geographic area the existing and future projected water demands and wastewater flows. Using the tool, the user can easily summarize, by area, the percentage of land use by category, the corresponding water and wastewater use. Parcels in the planning area are assigned to water/sewer use categories. The tool creates composite patterns of use for both water and sewer based on curves developed from actual meter data.

The DF was designed with a number of objectives, or uses, in mind. The first is an ability to determine water use by land use category for any defined area, to review indoor versus outdoor use, to evaluate impacts of conservation and/or water use regulation, and determine water budgets and service boundaries. A second use is to evaluate opportunities within the current or ultimate potable water system to transfer demand from the potable system to a reuse system. A third use is to provide a mechanism to translate accurate system demands and patterns to the water, sewer, and reuse hydraulic models.

The DF has been delivered to the ABCWUA for their use in forecasting, planning and modeling. The projections from the DF will form the basis for recommended improvements to the water, wastewater and reuse systems within the ABCWUA's service area, and including the WALH area under this study.

The DF calculates demand differently for existing and future use. For existing water and sanitary sewer use, billing records are used. These records are linked to a shape file of

the physical meters. Therefore, any parcel which matches an existing meter calculates the billed data to determine the water use for the area. When a parcel does not match an existing meter the DF assumes it is a parcel for future development. Water use is then calculated using a gallon per acre per day (GPAD) assignment based on the water/sewer use category of the parcel with the sewer flows utilizing the winter average water demand. The default GPAD quantities per water/sewer use category were previously determined as part of the ABCWUA's IIP effort and are based upon existing developed areas which are representative of future developed areas with similar land uses. The future sanitary sewer GPAD values are shown below.

Future Land Use Sanitary Sewer Flow Values (Winter Water Demand)		
Water/Sewer Use Category	**Description**	**Avg. SAS Flow (GPAD)**
0	Open Space/No Use	0
1.1	Light Res	1500
2	Medium Res	1875
3	Heavy Res	3750
4	Light Com	1562.5
5	Heavy Com	3125
6	Light Ind	3125
8	Heavy Ind	6250
9	Light Inst	625
10	Heavy Inst	2500
11	Other Irrigated Landscape	0
12	Park	0
13	Golf Course	0

The DF output shows the existing and future water uses for the area separately and then sums the calculations together to show totals.

In addition to calculating the system demand, the DF also uses unit curves by water/sewer use category, developed under the IIP project from a metering study, to create composite patterns of use for the selected area. The basis of the unit curves is described in the "*Demand Forecaster Validation Report*." It is important to note that the volume of Winter Water use (reflected by January meter data) is used to represent Sewer Use for both Winter and Summer DF calculations. However, separate unit curves, developed by CDM Smith, from metered data are used by the DF to reflect the daily pattern of sewer flows.

A. PROPOSED LAND USES

The proposed land uses within the master plan area consist of residential, commercial, industrial and institutional (see exhibit entitled "Land Use Map"). The percentages which were used for the sanitary sewer flow generation, along with the associated sewer use category assignments which conform to the land uses listed in the master plan are shown below.

Water/Sewer Use Category	Description	% of Overall Area	Total Area (Ac)
0	Open Space/Arterial Right-of-Way	25.9%	3,730
1.1	Light Res	43.7%	6,310
4	Light Com	12.9%	1,860
5	Heavy Com	2.5%	370
6	Light Ind	13.7%	1,980
12	Park	1.3%	180
	Total	**100%**	**14,430**

Sanitary sewer flow generation for the proposed uses within the master plan area was analyzed using the future GPAD values described above in Section A.

B. SEWER ROUTING

Also in accordance with the IIP methodology, this study uses an EPA SWMM computer software flow routing model known as PCSWMM 2012, which when utilizing dynamic wave methodology provides the more accurate output, allowing for optimization of future sewer pipe sizes. The model was run using direct input of the sanitary sewer flow curves generated by the DF for each basin at appropriate nodes into the SWMM model. The dynamic wave methodology allows for analysis of the pipe network in real-time, and the model was run for a three day period (72 hr) to ensure that a repeatable daily pattern was demonstrated. As shown by the model output, most pipe reaches achieved a peak flow-rate in the first 24 hours, with the remaining reaches achieving a peak flow-rate within 48 hours, indicating a repeating pipe network flow pattern within the model.

V. EXISTING OR PLANNED SANITARY SEWER INTERCEPTOR LINES

Santolina is currently undeveloped land and accordingly, no operational sewer systems or utility districts are in place at this time serving the master plan lands of Santolina. However, there are several existing sewer systems in near proximity.

The Tierra West residential community, at Atrisco Vista and Central, is currently being served by a WUA sewer line, 15" in diameter. This sewer line also extends north beyond Tierra West to cross I-40, serving Cordero Mesa Business Park and additional properties north of I-40. This line is also referred to herein as the "Westgate Dam Sanitary Sewer Interceptor."

Dennis Chavez Blvd also holds a 10"-15" sewer line extended from Coors Blvd to the Atrisco Vista intersection. This line provides service to the recently constructed Atrisco Heritage High School.

Planned for 2014 construction, a large diameter sanitary sewer interceptor line is to be placed within the 118th Street corridor (the primary and longest reach), from I-40 almost to Gibson Blvd. It further extends to Atrisco Vista, just north of I-40. This interceptor is designed to provide a major sewer collector for the western Westland Master Plan area, the far west lands north of I-40 and the northeast portions of Santolina. The WUA has approved the 118th Street alignment and is beginning to review construction plans.

The existing Metropolitan Detention Center (MDC), the Cerro Colorado landfill and the Speedway sites are served by onsite collection, treatment and disposal systems. It is likely that the Santolina development, WUA and/or the County will eventually seek to extend sewer lines out to serve one or more of these properties, permitting the closure of the onsite systems.

The Southside Water Reclamation Plant (SWRP) is the WUA's only wastewater reclamation plant. It lies on valley land just east of the Rio Grande, south of Rio Bravo. The plant collects and treats approximately 70 million gallons of wastewater per day, with almost 80% of that treated flow being residential in source. Treated water is either discharged to the Rio Grande, or treated further to become part of the reclaimed (reuse) water program. The SWRP reclaims about 200 million gallons of water each year, which is used for cleaning and irrigation.

VI. SEWER DRAINAGE BASINS AND OUTFALLS

The exhibit entitled "Sewer Basin Map" portrays the sanitary sewer drainage basins within the master planning area. The major basins and sub-basins are identified and labeled for use in the computer analysis models.

VII. SANITARY SEWER INTERCEPTOR SYSTEM ALTERNATIVES

A. GENERAL

This report analyzes and models the two development scenarios as listed below: Ultimate Buildout Condition. This condition represents the planning area in its fully developed condition (see the "Ultimate Buildout Sanitary Sewer System" exhibit). This represents a 40 year to 50 year planning horizon. 2035 Projected Development Plan Buildout Condition. This condition represents the first phase of development as outlined in the master plan (see the "2035 Projected Development Plan Sanitary Sewer System" exhibit). It is estimated that the 2035 Projected Development Plan would be completed about 2035.

B. ULTIMATE INTERCEPTOR SYSTEM

Santolina proposes to provide public sanitary sewer system infrastructure to its residents and businesses, as shown on the Sanitary Sewer Master Plan figure. The system will be constructed in accordance with WUA design guidelines and dedicated to the WUA upon completion. Under ultimate build out (fully developed) conditions, Santolina's sanitary sewer system is to be served from three primary existing sewer outfalls:

1. The **majority of Santolina lands** will generally drain south and east toward the vicinity of Dennis Chavez/Atrisco Vista intersection. At this point, the sewer master plan allows for two options to manage sewer flows:
    a) Sewer flows are directed to an existing interceptor line in Dennis Chavez Blvd. This line discharges easterly, eventually crossing the River and being treated at the SWRP. The existing line sizes in this sewer interceptor are insufficient for the increased flows of the fully developed Santolina and will need to be increased by future sewer expansion projects. The additional capacity may also be attained through the installation of parallel sewer

lines, thereby utilizing the full capacity of the existing lines, or by a sewer line replacement project. Further, by virtue of the existing lines, this sewer option already holds the necessary corridors and right-of-ways for future sewer line capacity expansions.

b) Alternatively, WUA strategic planning efforts in the near future may consider a satellite water reclamation plant for the mesa top lands north and south of I40. A suitable site for a satellite plant is located at the south boundary of Santolina, near the PNM site (also the extension of Atrisco Vista southward). This location provides opportunity to provide gravity sanitary sewer collection and treatment not only Santolina, but also for thousands of acres of mesa top lands north of I-40. This large sewer service area was explored and validated in a recent study submitted to the WUA. Advancing wastewater treatment technologies and the varied land uses of Santolina (i.e., open space lands, business and manufacturing) offer multiple opportunities for innovative use of reclaimed wastewater.

These plants generally treat wastewater to reuse/reclaimed quality for application to large local irrigation needs. After initial treatment, the remaining thickened liquid waste side stream would be sent on to the Southwest WRP for final treatment and solids handling.

The utilization of a satellite WRP also presents an opportunity for aquifer reinjection of treated effluent through specially designed injection wells. This is a process known as Aquifer Storage and Recovery (ASR). Due to the known issues of groundwater quality in this area, however, this approach must be studied carefully under the auspices of the WUA before considering further and implementation. If reinjection were to occur, injection wells would be located to the far eastern portions of Santolina.

The large sanitary line proposed in Atrisco Vista south of I-40, under either of the options above, is a major sewer interceptor collecting sewer flows from Santolina and lands north of I-40.

The far southeast corner of the mesa top lands within Amarillo Village (west of the escarpment) lies topographically below the sewer system described below. A sanitary sewer pump station may be required to serve this area. Alternatively, depending on actual development planning for the lowermost area, there may be opportunities to drain sewer flows easterly

down the escarpment to the sewer system of the 118th Street and Gun Club area.

2. **The small residential (within Verde Village) and business park development areas within the northeast escarpment area of Santolina,** lying just north of the Westgate Dam and south of Central Avenue, will drain south and east into the existing WUA sewer system, due to topographical constraints. A new major interceptor in 118th Street will be available for this area, and the existing "Westgate Dam sanitary sewer interceptor" also has capacity to accommodate the flows from these areas (Sewer Basins C.3 and C.7).
3. The **small development area of Santolina (Azul Village)**, lying south of Dennis Chavez and adjacent to 118th Street, adjacent to the southeast escarpment, can be served by future extensions of WUA systems in the Gun Club/Coors area to the east. The system in this area will need future careful study and planning under WUA auspices in the future, prior to development.

The above sanitary sewer system concepts provide gravity service to the Santolina master plan area by carefully designing the system layout to conform to the existing topographical constraints of Santolina. Preliminary sewer line sizes are shown on the Sanitary Sewer Master Plan figure for scale purposes and may change over time. The level 'A' service concepts presented herein are conceptual in nature and are subject to revision, as approved by the Water Authority, through future submittals of more detailed Level 'B' and Level 'C' master plans.

C. 2035 PROJECTED DEVELOPMENT PLAN INTERCEPTOR SYSTEM

Santolina proposes a 2035 Projected Development Plan, which is estimated to be fully developed in 2035. The ultimate sanitary sewer master plan infrastructure is then phased and reduced accordingly to meet only the development needs of the 2035 Projected Development Plan, and is shown on the Sanitary Sewer Master Plan, 2035 Projected Development Plan figure.

The primary sewer outfalls for the 2035 Projected Development Plan are the existing sewer interceptor in Dennis Chavez, the anticipated 118th Street/Gun Club system, as previously described in the Ultimate System section, and the existing sewer line running easterly from Atrisco Vista toward Westgate Dam (currently serving the Tierra West community). It is not anticipated, however, that the satellite WRP will be planned or

necessary for the 2035 Projected Development Plan development, but this is a decision of the WUA at the appropriate time.

Some reaches of the existing sewer line in Dennis Chavez are shown to have insufficient capacity for the anticipated flows of the 2035 Projected Development Plan. Line system capacity will need to be increased, as needed, through line replacement projects and/or parallel line installations.

The 2035 Projected Development Plan area identified in the Industrial & Energy Park, near Shelly Road, is situated far from existing or near term planned sewer facilities. Accordingly, several options are considered acceptable alternatives for service to any development proposed in this area, including (a) construction of a 2035 Projected Development Plan sewer interceptor to existing WUA sewer lines (a long and costly extension), (b) temporary pumping of development sites to nearest existing lines, and (c) temporary onsite treatment and disposal. The option selected will depend on actual project-by-project circumstances (at the time of development) and WUA approvals.

D. ANALYSIS RESULTS

Utilizing the methodologies described in previous sections, computer modeling was performed on the proposed sewer basins and outfall lines. Refer to the tables provided on the exhibits labeled "Ultimate Buildout Condition Sewer Network" and "2035 Projected Development Plan Condition Sewer Network" for detailed tabular analysis results, including maximum basin flows, line sizes, slopes, lengths, etc. The table below presents several key pipe reach results.

SEWER LINE REACH	LENGTH*	SIZES*	SLOPES*
ULTIMATE BUILDOUT			
Atrisco Vista Reach	10,000 LF	27"-30"	0.6%
Dennis Chavez Reach	23,700 LF	27"-39"	0.5% – 6.1%
Southern MP Boundary Reach	33,400 LF	21"-33"	0.3% - 1.9%
	67,100 LF		
2035 PROJECTED DEVELOPMENT PLAN			
Atrisco Vista Reach	10,000 LF	27"-30"	0.6%
Dennis Chavez Reach	13,100 LF	27"-33"	0.5% - 6.1%
Southern Boundary Reach	33,400 LF	21"-33"	0.3% - 1.9%
	56,500 LF		
* subject to change during final design/construction			

The Atrisco Vista and Southern Boundary (from Dennis Chavez/Atrisco Vista intersection to/including Shelly Road reach) Reaches are new interceptor lines that will need to be constructed to serve development within the master plan area. The analysis shows that the existing Dennis Chavez interceptor will need upsizing in the ultimate condition, but only a few reaches of the Dennis Chavez interceptor will need upsizing to accommodate the entire 2035 Projected Development Plan portion of development when it occurs.

The computer analysis outputs supporting each alignment are provided in the appendices.

Since the start of the demand analysis on the Santolina water system, the development characteristics and land uses have changed very slightly between the development projections of this analysis/report and the final master plan. However, they have changed in a downward direction (i.e. less development). For instance, single family dwelling unit projections have decreased approximately 3%. However, the analysis retains the original (higher values). Given the volatility of unit projections over a possibly 50 year timeframe, and the fact that Santolina may see other changes form the County WUA review process itself, this approach seems appropriate and reasonable at this time. Accordingly, the results of this demand analysis can be considered slightly conservative.

VIII. RECOMMENDATIONS

The following are recommended:

1. Accept the Ultimate Buildout and 2035 Projected Development Plan conceptual sanitary sewer system scenarios.
2. The WUA, under its IIP project, consider the system-wide downstream impact of the Santolina flows at the appropriate time. System-wide facilities to be considered might include existing downstream interceptor lines farther to the east of this analysis, the river crossing, the Southwest Water Reclamation Plant capacity, and any other facilities accepting flow from the Santolina planning area.
3. Implement over time the "*Western Albuquerque Land Holdings, Wastewater Master Plan 2012 Update*," such that sewer flows adjacent to Santolina and the surrounding master planning area are directed in the manner outlined in that report.
4. Require future development requests within Santolina to comply with this report, or amend this report as necessary in conjunction with WUA approval.

IX. CONCLUSION

This study and report provides analysis and results of the required sanitary sewer interceptor systems serving the Santolina Master Plan area for both the Ultimate Buildout and the 2035 Projected Development Plan development scenarios.

This study encompassed a large planning area and represents a 40-50 year Santolina buildout. As a result, as portions of the planning area develop over time, there may be logical deviations from this study consisting of basin boundary modifications or sanitary sewer outfall location changes representing temporary interim conditions and/or phasing which should be explored. Therefore, future supplements or revisions to this study may be needed to support such development as it occurs, and should be evaluated on a case by case basis as necessary.

Similarly, while this study provides sanitary sewer pipe sizing based upon the calculated flows and estimated future pipe slopes, pipe sizes shown in this report are preliminary in nature. Final pipe sizes and slopes should be determined at the time of design and should be adjusted as necessary based upon actual field and development conditions in order to accommodate the sewer flows.

EXHIBITS

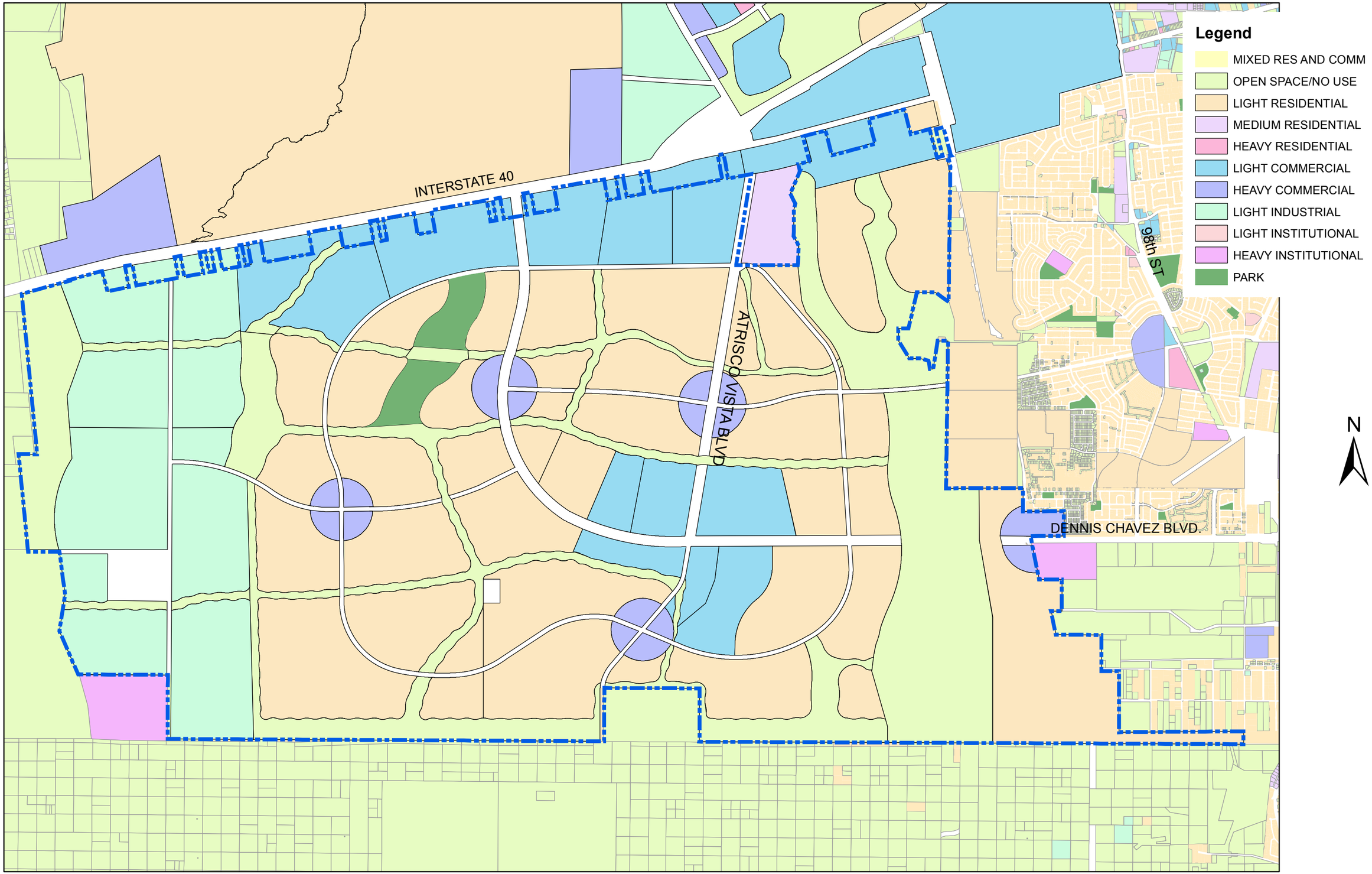
LAND USE MAP (ULTIMATE BUILDOUT)

ULTIMATE BUILDOUT SEWER BASIN MAP

2035 PROJECTED DEVELOPMENT PLAN SEWER BASIN MAP

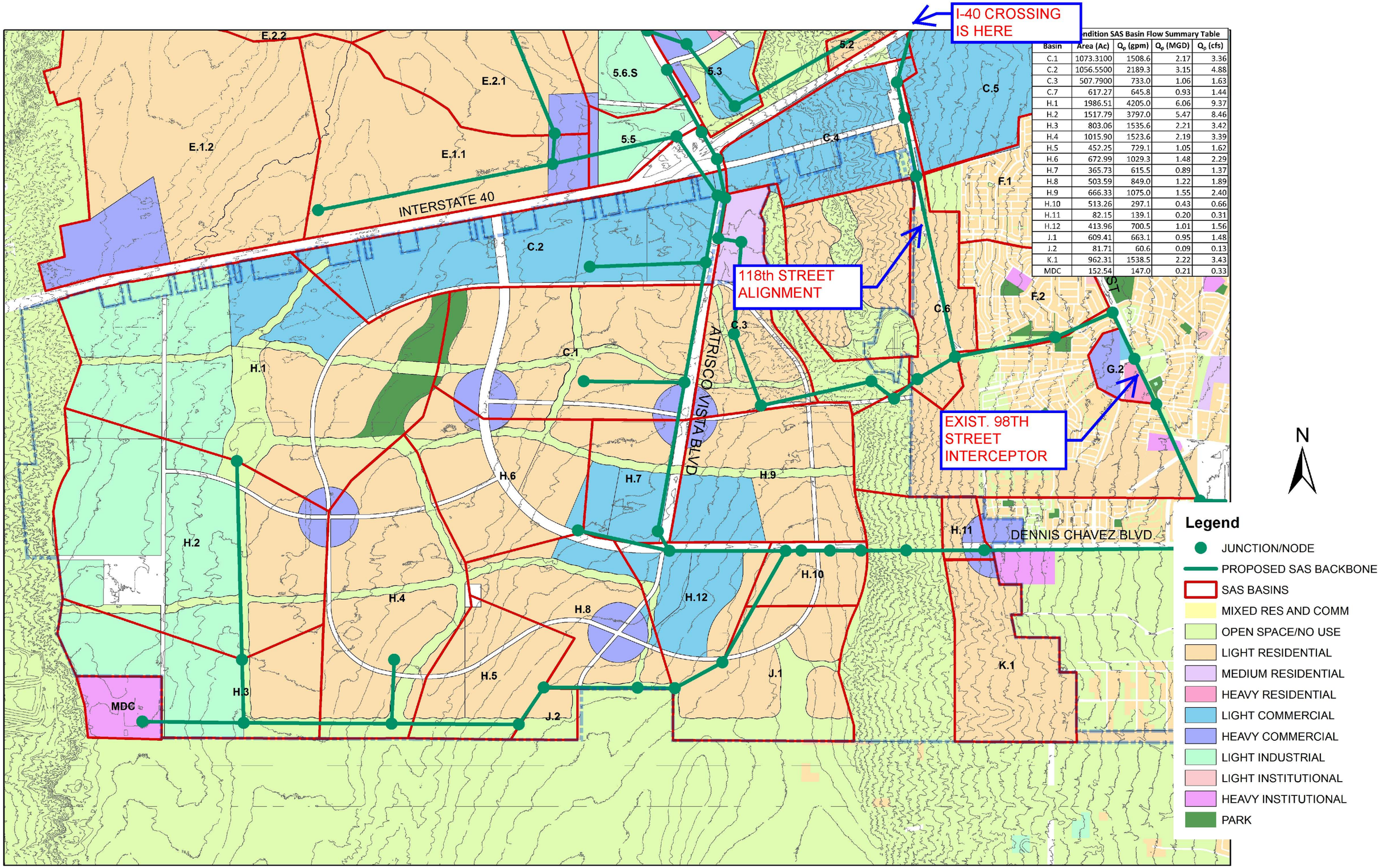
ULTIMATE BUILDOUT SANITARY SEWER SYSTEM

2035 PROJECTED DEVELOPMENT PLAN/ SANITARY SEWER SYSTEM



LAND USE MAP

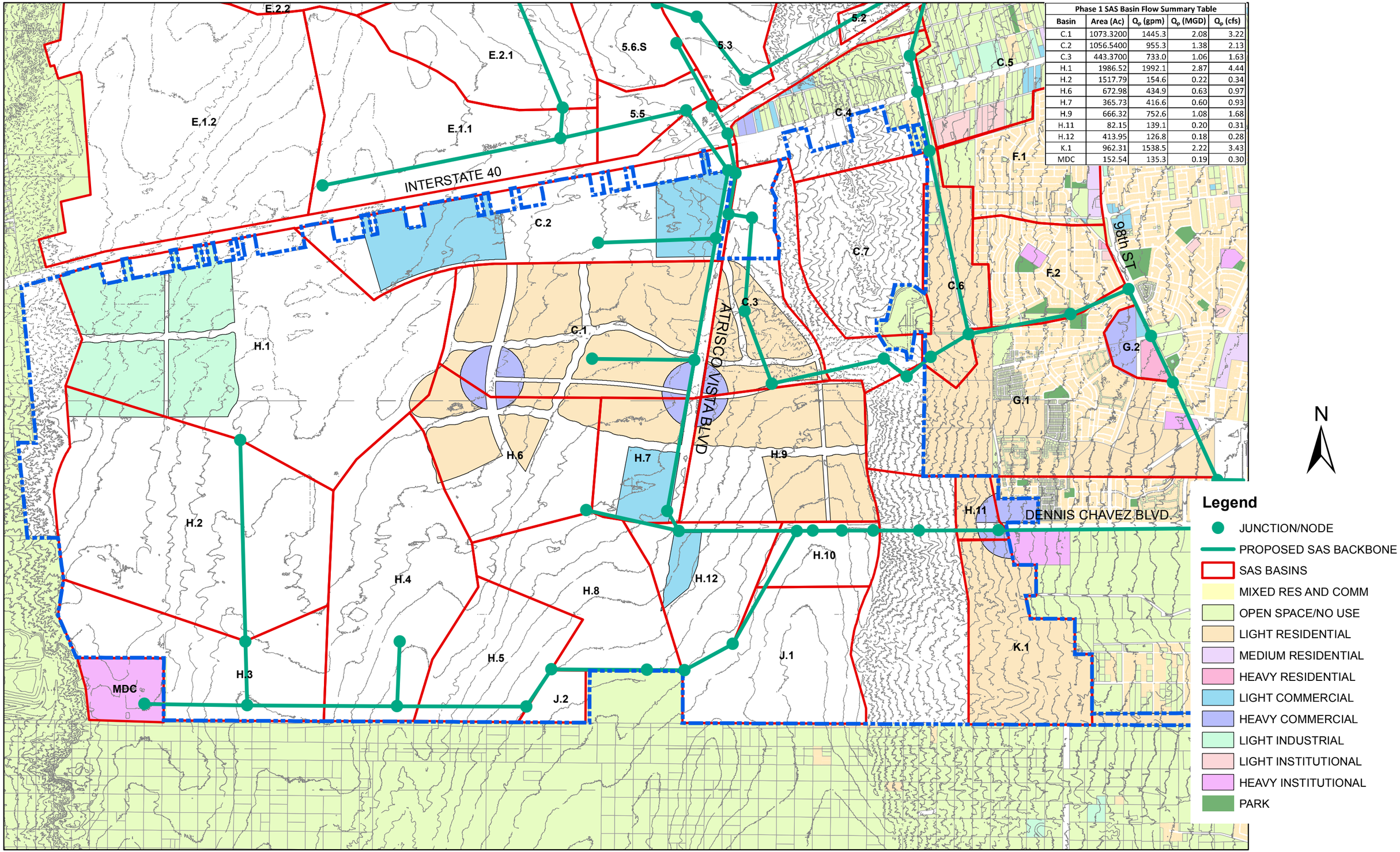
AUGUST 26, 2013



ndition SAS Basin Flow Summary Table

Basin	Area (Ac)	Q_p (gpm)	Q_p (MGD)	Q_p (cfs)
C.1	1073.3100	1508.6	2.17	3.36
C.2	1056.5500	2189.3	3.15	4.88
C.3	507.7900	733.0	1.06	1.63
C.7	617.27	645.8	0.93	1.44
H.1	1986.51	4205.0	6.06	9.37
H.2	1517.79	3797.0	5.47	8.46
H.3	803.06	1535.6	2.21	3.42
H.4	1015.90	1523.6	2.19	3.39
H.5	452.25	729.1	1.05	1.62
H.6	672.99	1029.3	1.48	2.29
H.7	365.73	615.5	0.89	1.37
H.8	503.59	849.0	1.22	1.89
H.9	666.33	1075.0	1.55	2.40
H.10	513.26	297.1	0.43	0.66
H.11	82.15	139.1	0.20	0.31
H.12	413.96	700.5	1.01	1.56
J.1	609.41	663.1	0.95	1.48
J.2	81.71	60.6	0.09	0.13
K.1	962.31	1538.5	2.22	3.43
MDC	152.54	147.0	0.21	0.33

ULTIMATE BUILDOUT SEWER BASIN MAP



Phase 1 SAS Basin Flow Summary Table

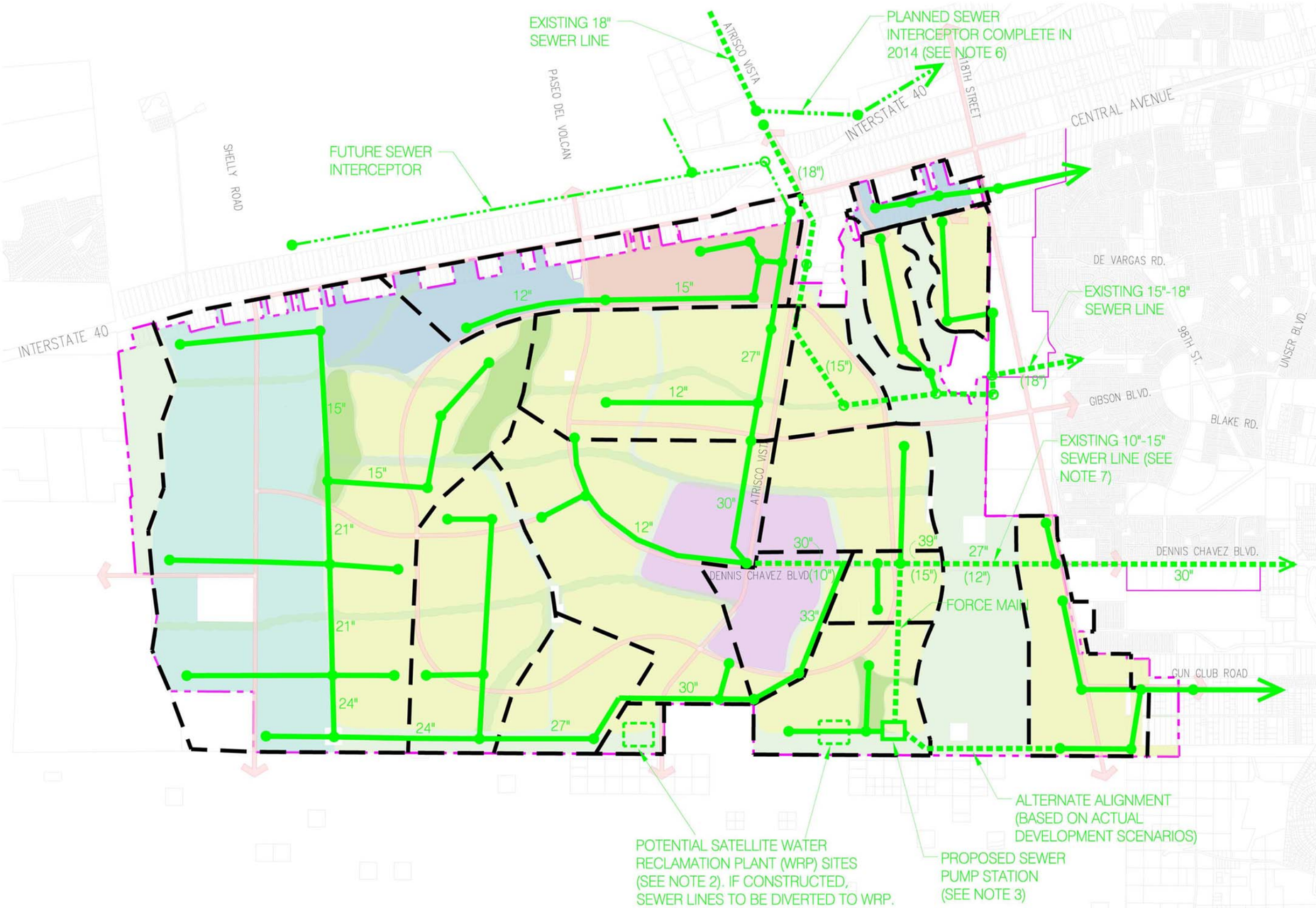
Basin	Area (Ac)	Q_p (gpm)	Q_p (MGD)	Q_p (cfs)
C.1	1073.3200	1445.3	2.08	3.22
C.2	1056.5400	955.3	1.38	2.13
C.3	443.3700	733.0	1.06	1.63
H.1	1986.52	1992.1	2.87	4.44
H.2	1517.79	154.6	0.22	0.34
H.6	672.98	434.9	0.63	0.97
H.7	365.73	416.6	0.60	0.93
H.9	666.32	752.6	1.08	1.68
H.11	82.15	139.1	0.20	0.31
H.12	413.95	126.8	0.18	0.28
K.1	962.31	1538.5	2.22	3.43
MDC	152.54	135.3	0.19	0.30

0 3,375 6,750 13,500 Feet

CONTOUR INTERVAL = 20 FT

2035 PROJECTED DEVELOPMENT PLAN/SEWER BASIN MAP

AUGUST 26, 2013



NOTES:

1. ALL SEWER LINE ALIGNMENTS AND SIZES ARE APPROXIMATE AND ILLUSTRATIVE, SUBJECT TO CHANGE.
2. FUTURE ABCWUA POLICIES MAY SEEK CONSTRUCTION OF SATELLITE WRP'S ON THE "FAR WEST MESA". ONLY ONE WRP IS ANTICIPATED FOR SANTOLINA IF FUTURE WUA POLICIES PROCEED IN THIS DIRECTION.
3. SEWER PUMP STATION MAY BE REMOVED IF / WHEN WRP IS CONSTRUCTED IN THE FUTURE.
4. THE PAJARITO MESA AREA, SOUTH OF SANTOLINA, IS PROJECTED TO BE SERVED BY ONSITE TREATMENT SYSTEMS PRIMARILY.
5. FINAL SEWER SYSTEM CONFIGURATION SHALL BE DETERMINED BY APPROPRIATE LEVEL B MASTER PLANS, APPROVED BY THE WATER AUTHORITY.
6. PLANNED INTERCEPTOR WILL EXTEND SOUTH ON EITHER 118TH STREET OR 98TH STREET CORRIDORS.
7. THE EXISTING DENNIS CHAVEZ BLVD. SEWERLINE WILL REQUIRE UPSIZING (OR PARALLEL LINES).

LEGEND

- PROPOSED SEWER LINE
- EXISTING SEWER LINE & SIZE ( )
- FUTURE SEWER LINE
- SEWER BASIN LINES

NORTH 1000 0 2000 4000

Mon, 19-Aug-2013 - 4:39:pm, Plotted by: DHUERTA
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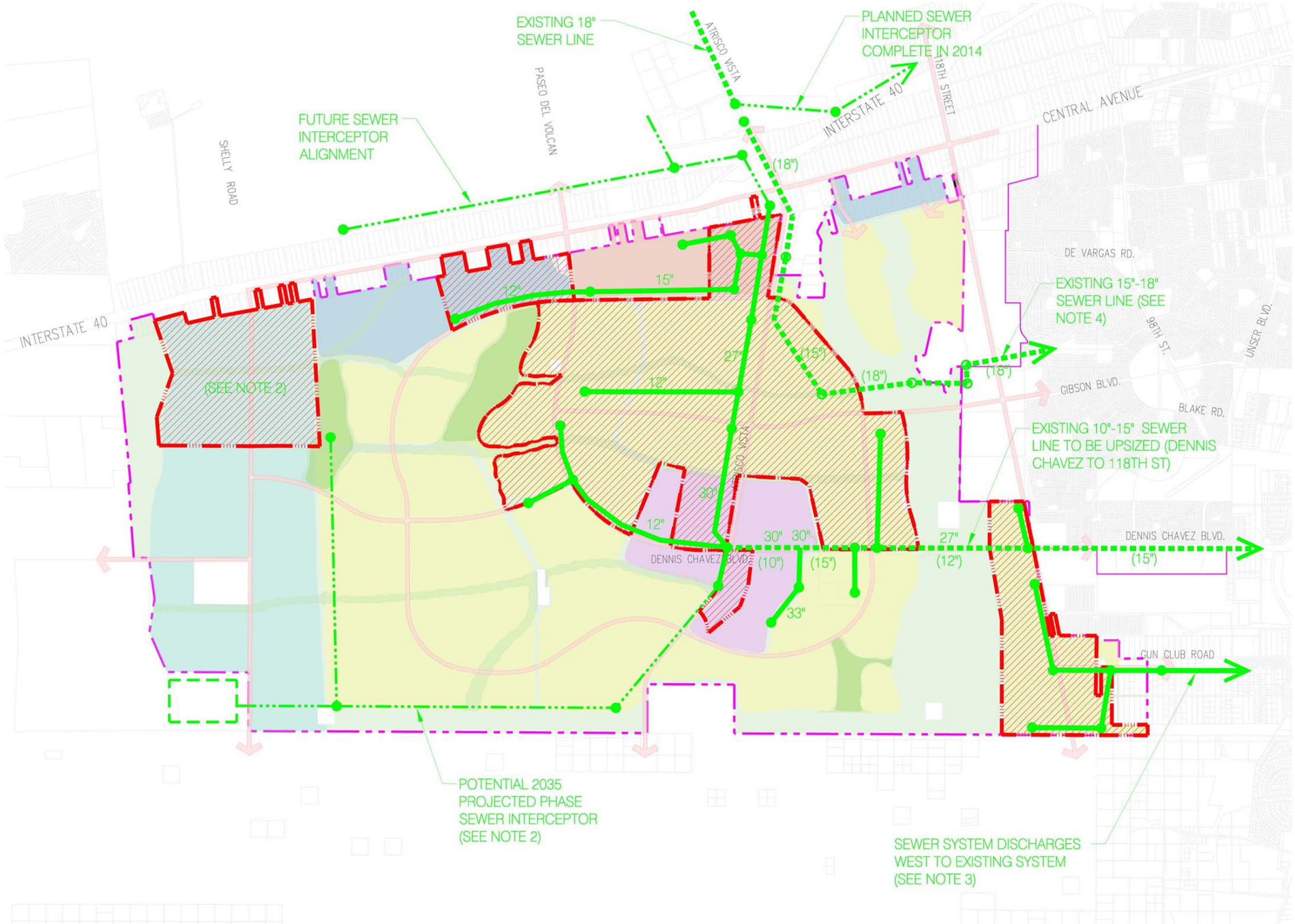
Exhibit
Ultimate Buildout
Sanitary Sewer System



NOTES:

1. ALL SEWER LINE ALIGNMENTS AND SIZES ARE APPROXIMATE AND ILLUSTRATIVE, SUBJECT TO CHANGE

2. 2035 PROJECTED DEVELOPMENT PHASE 1 OF THE INDUSTRIAL & ENERGY PARK SHALL BE SERVED BASED ON PERTINENT CIRCUMSTANCES AT THE TIME OF ACTUAL DEVELOPMENT. SERVICE OPTIONS INCLUDE:
   (A) CONSTRUCTION OF POTENTIAL 2035 PROJECTED DEVELOPMENT PHASE SEWER INTERCEPTOR
   (B) TEMPORARY PUMPING TO EXISTING SYSTEMS TO THE EAST (IN BUSINESS PARK)
   (C) ONSITE TREATMENT & DISPOSAL SYSTEMS.

   SEE ALSO NOTE 3.

3. FINAL SEWER SYSTEM CONFIGURATION SHALL BE DETERMINED BY APPROPRIATE LEVEL B MASTER PLANS, APPROVED BY THE WATER AUTHORITY.

4. THIS EXISTING 15"-18" SEWER MAY BE TEMPORARILY AVAILABLE FOR INITIAL 'SPOT' DEVELOPMENT IN THE TOWN CENTER, BUSINESS PARK AND/ OR RESIDENTIAL LANDS.

LEGEND

- PROPOSED SEWER LINE
- EXISTING SEWER LINE & SIZE ( )
- FUTURE SEWER LINE
- 2035 PROJECTED DEVELOPMENT BOUNDARY
- 2035 PROJECTED DEVELOPMENT

NORTH 1000 0 2000 4000

Exhibit
2035 Projected Development Plan Sanitary Sewer System

Tue, 23-Jul-2013 - 8:20:am, Plotted by: DHUERTA
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APPENDICES

APPENDIX A – DEMAND FORECASTER OUTPUT

APPENDIX B – PCSWMM OUTPUT

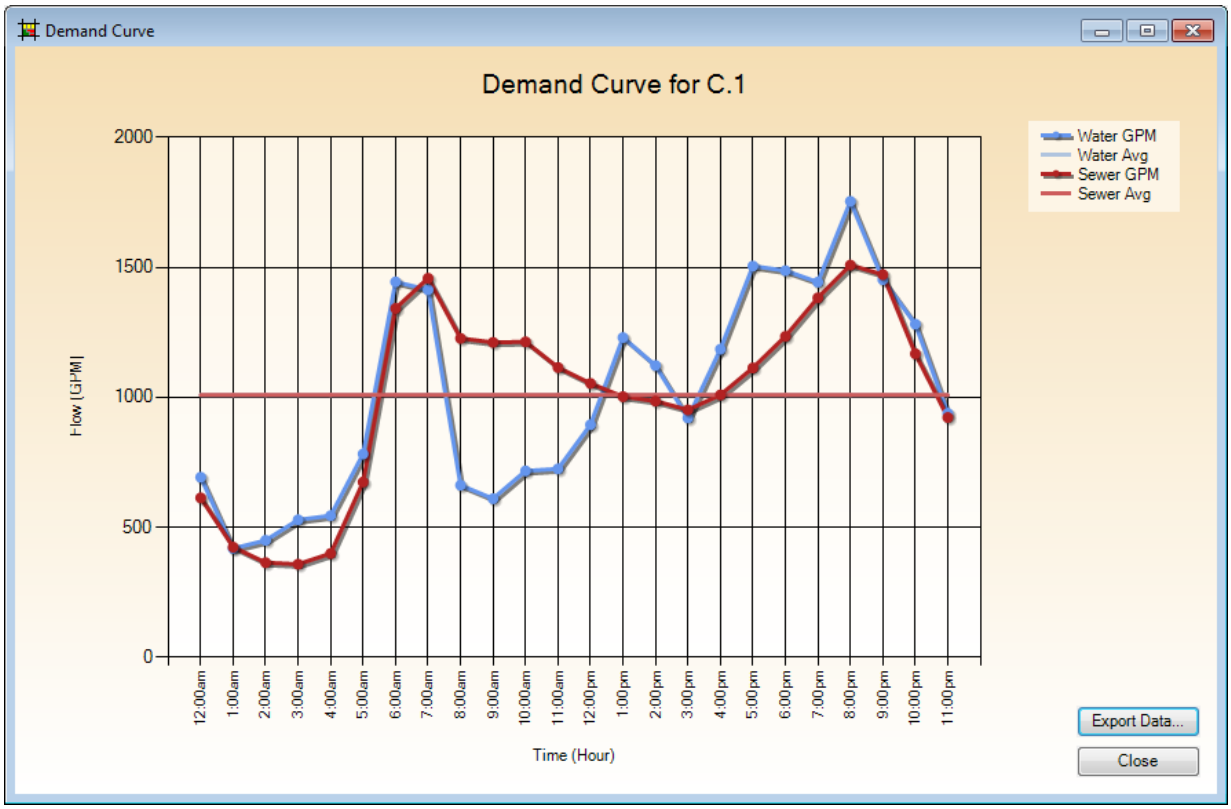
APPENDIX C – PCSWMM DAILY PATTERN INPUT FILE DATA BY BASIN (.DAT)

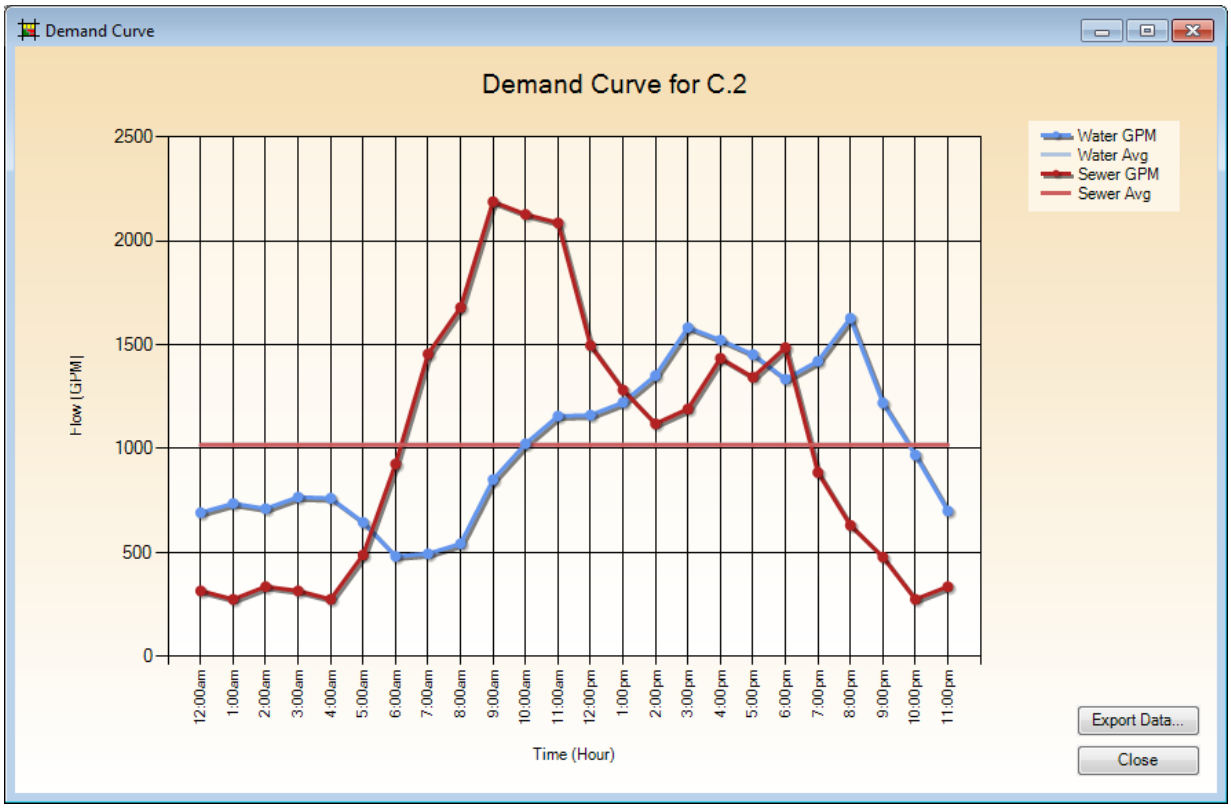
APPENDIX D – PREVIOUS REPORT EXCERPT (LAND USE MAP)

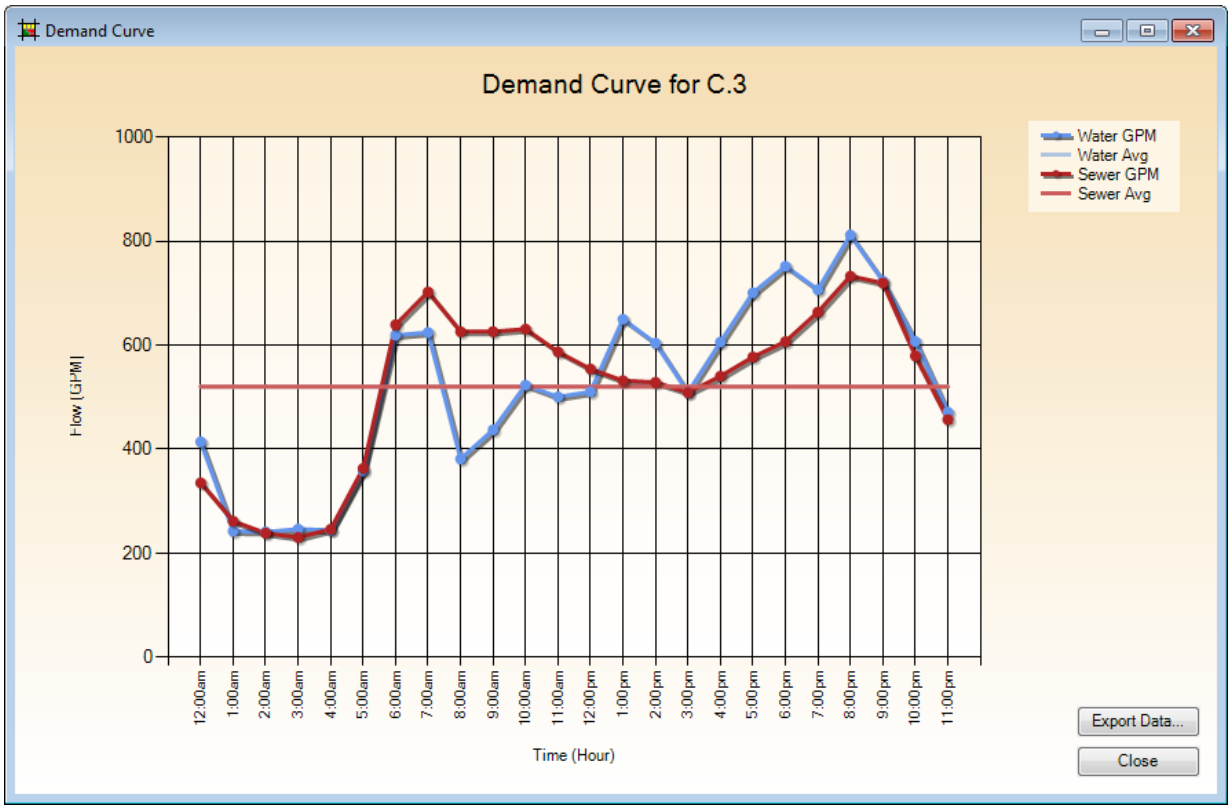
APPENDIX A

DEMAND FORECASTER OUTPUT

Ultimate Buildout Pattern Flow Curves by Basin



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Demand Curve for C.3
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Water Avg
Sewer GPM
Sewer Avg
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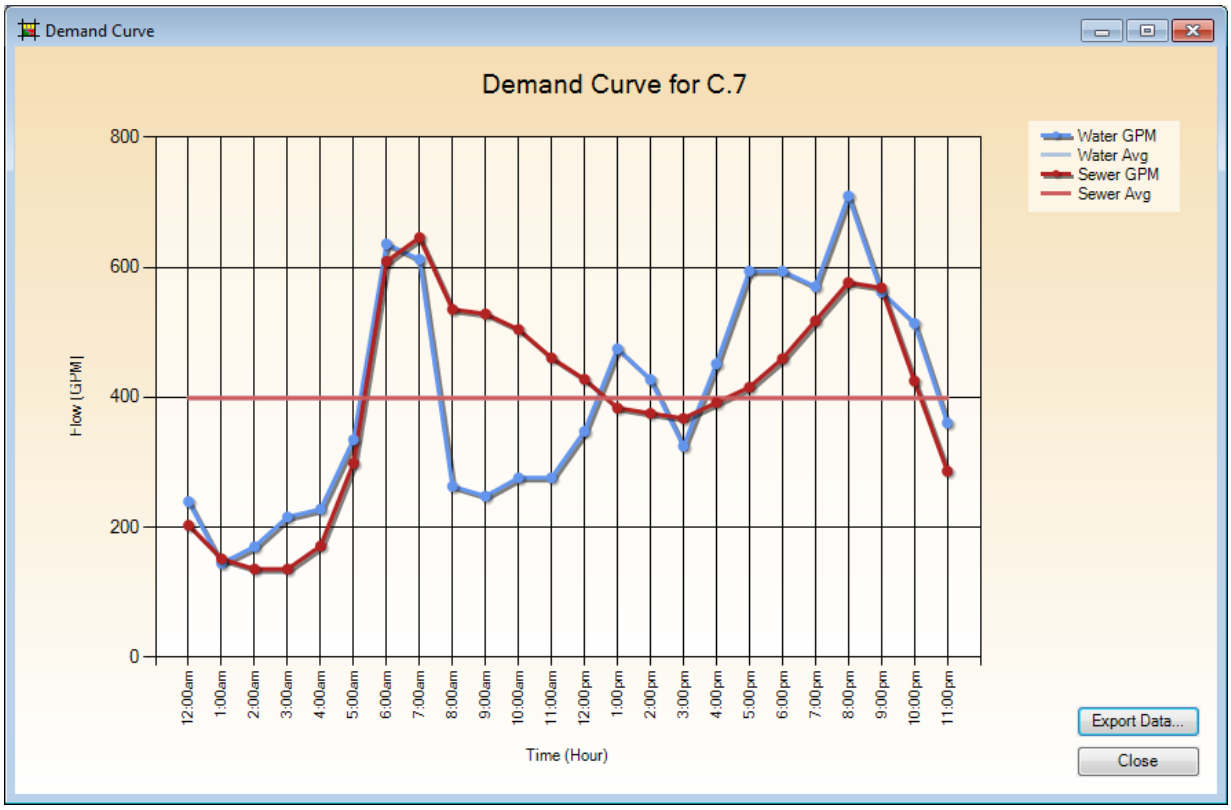
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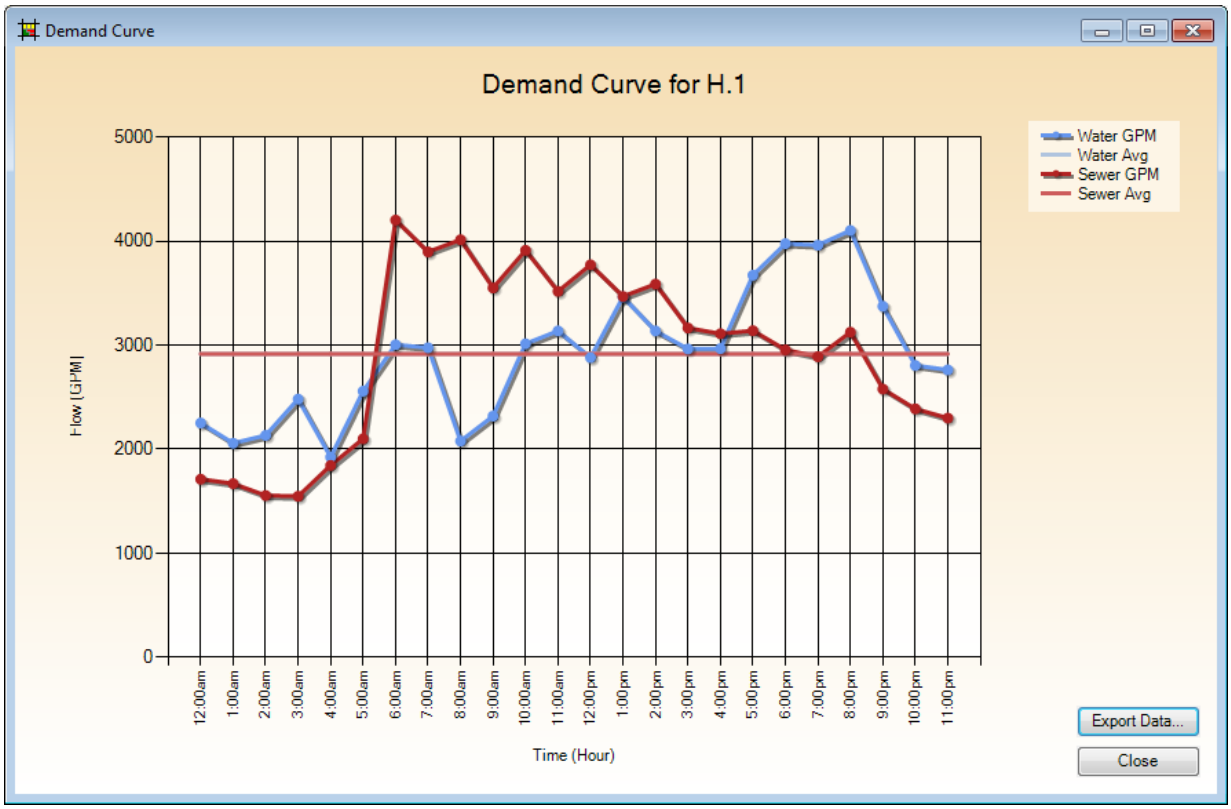
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Demand Curve for H.1
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Sewer GPM
Sewer Avg
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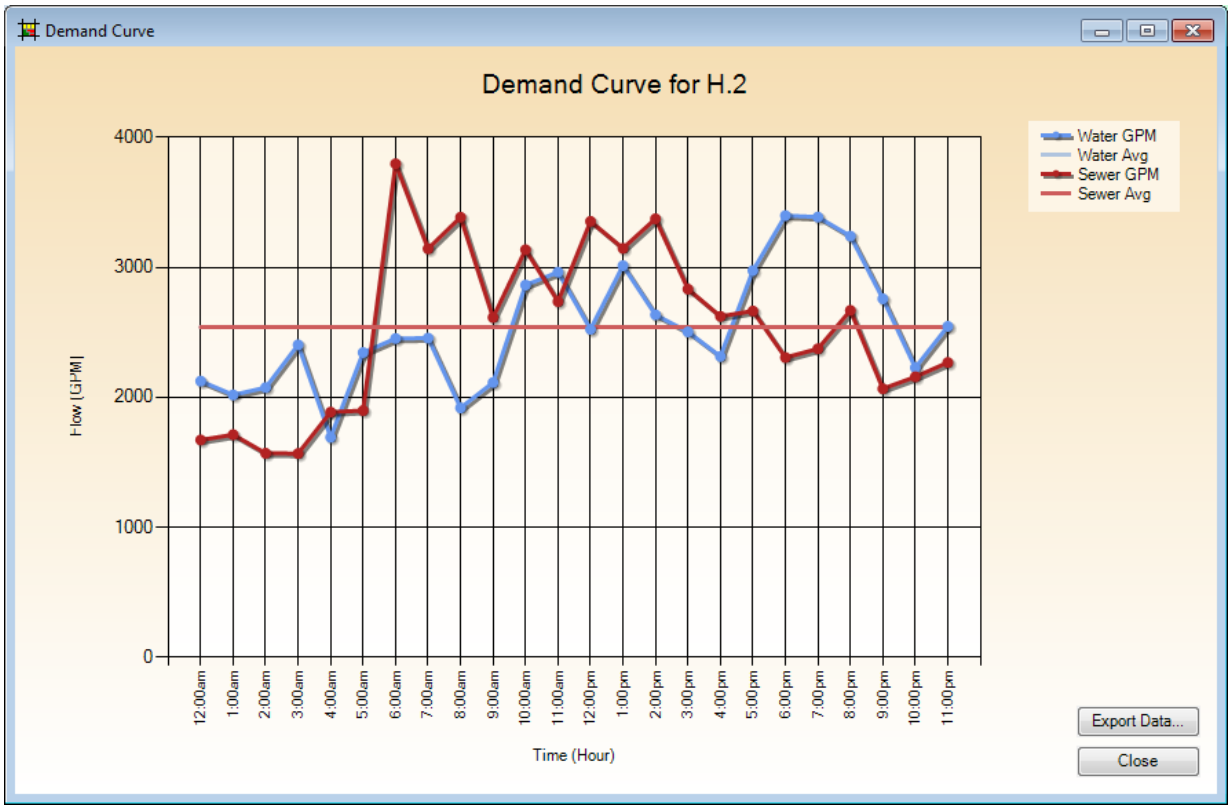
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Demand Curve for H.2
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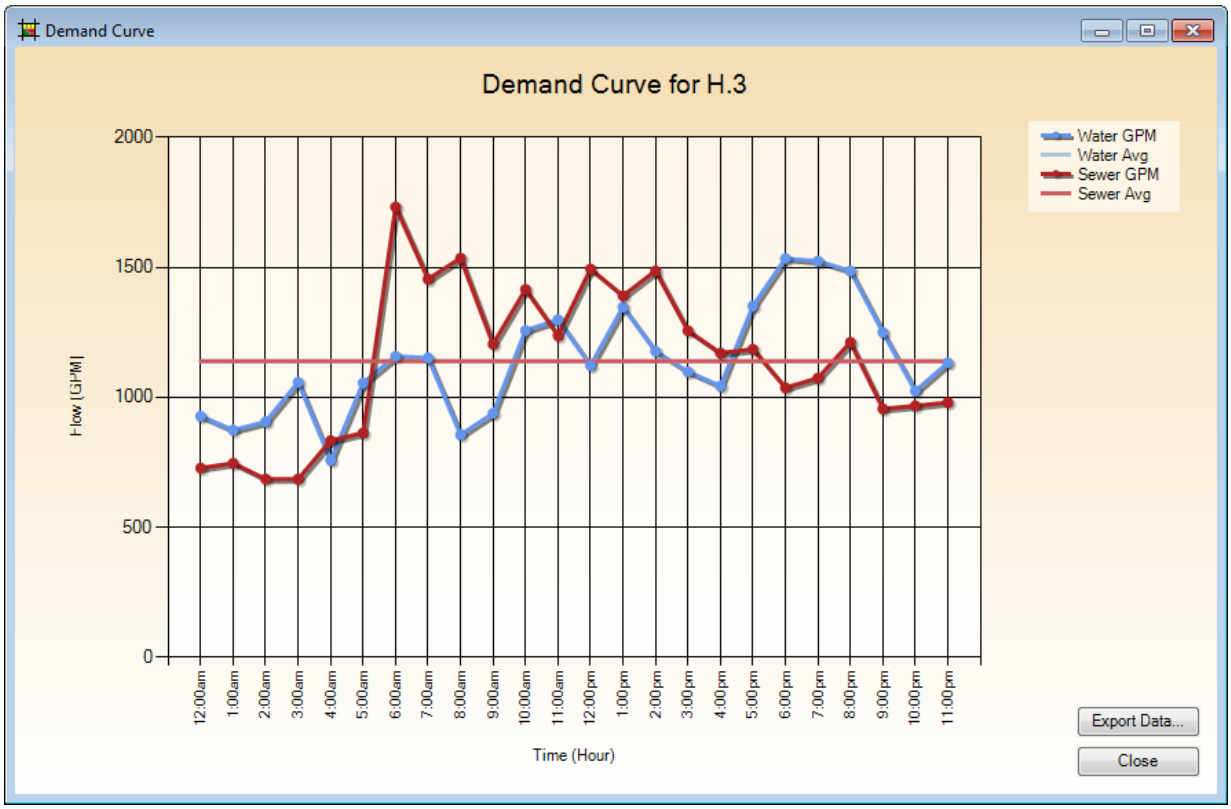
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Demand Curve for H.3
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Sewer GPM
Sewer Avg
Flow [GPM]
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2:00am
3:00am
4:00am
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6:00am
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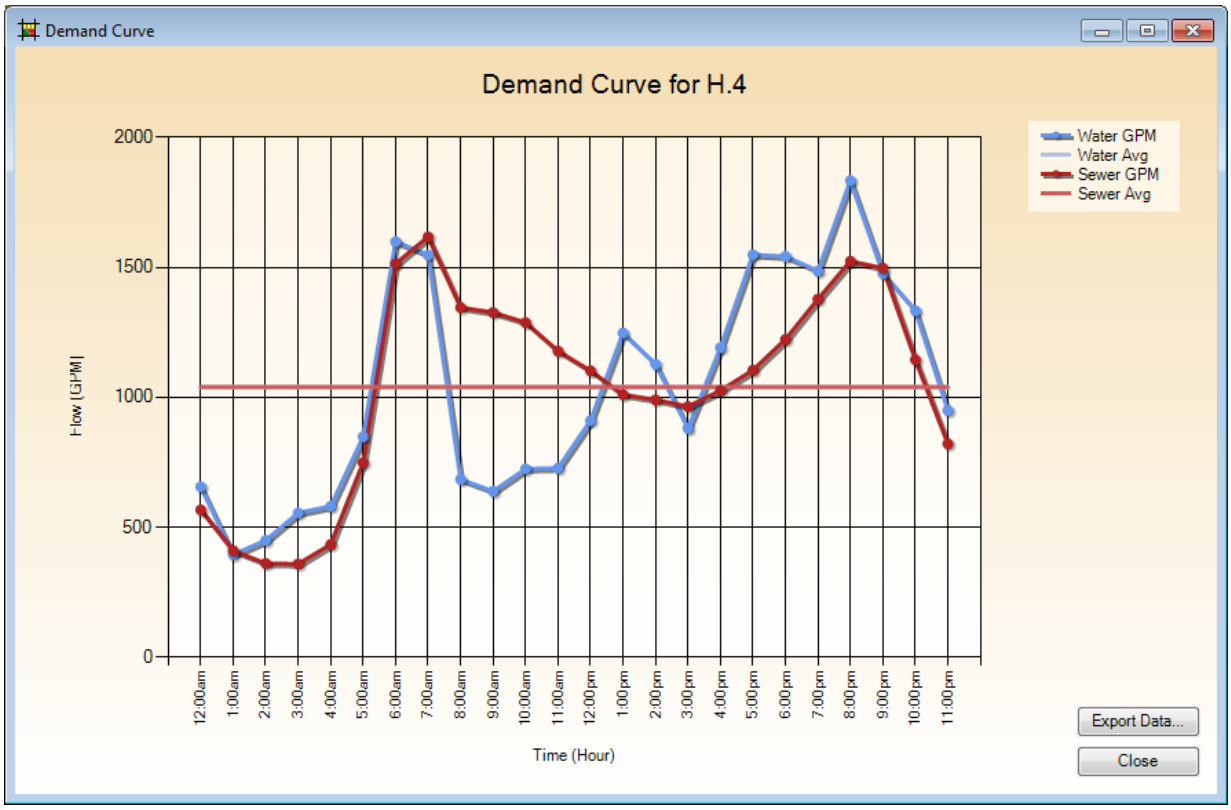
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Demand Curve for H.4
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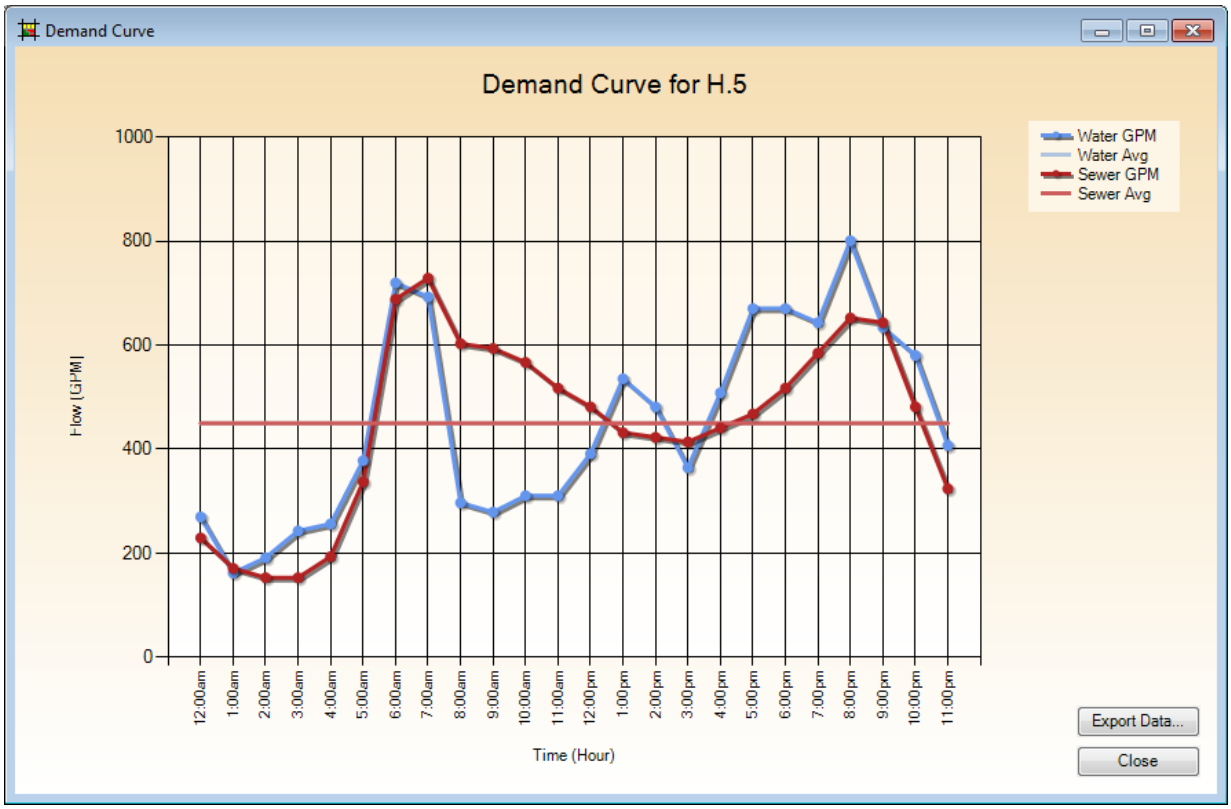
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Sewer GPM
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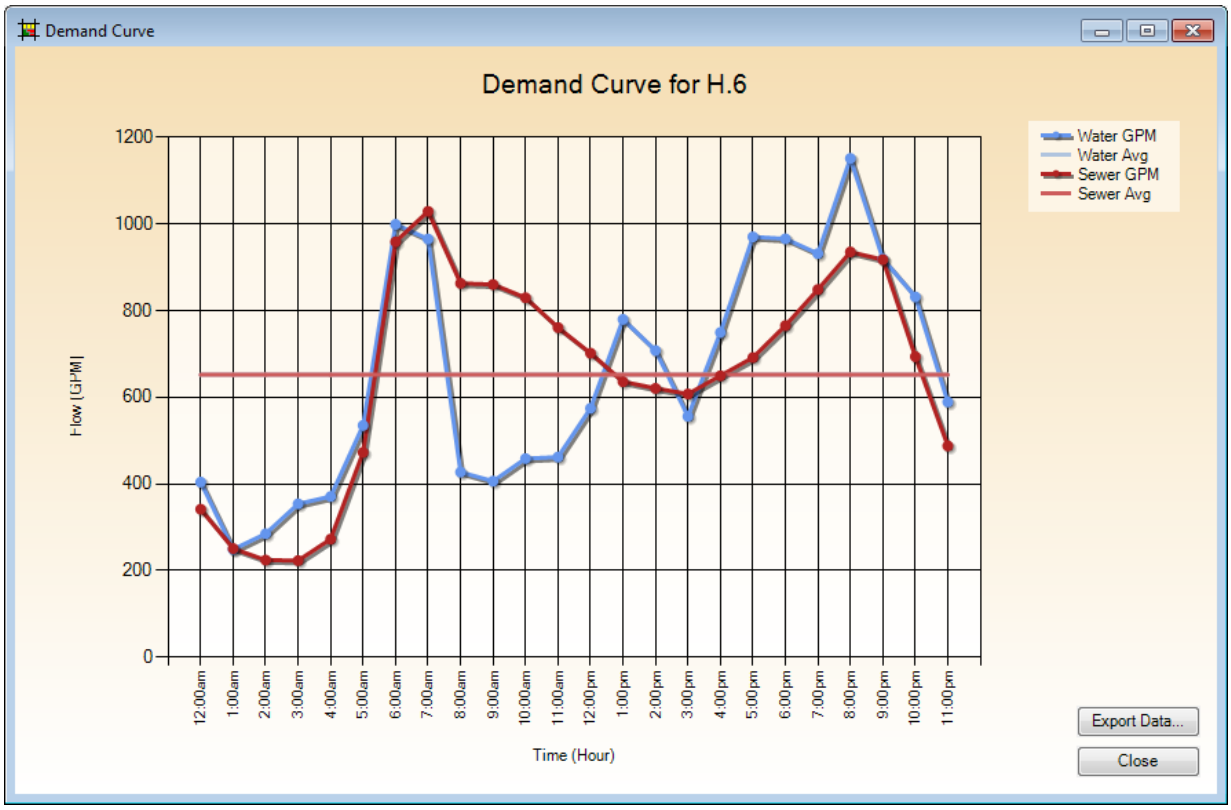
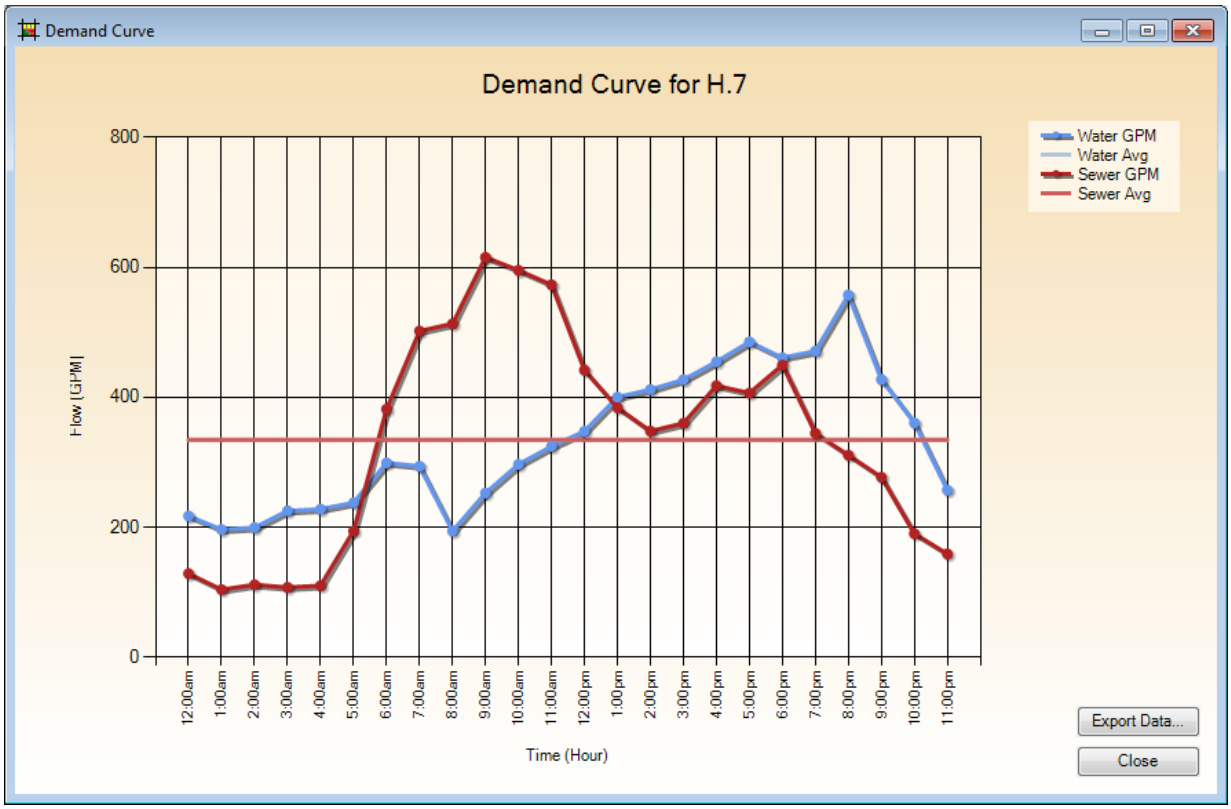
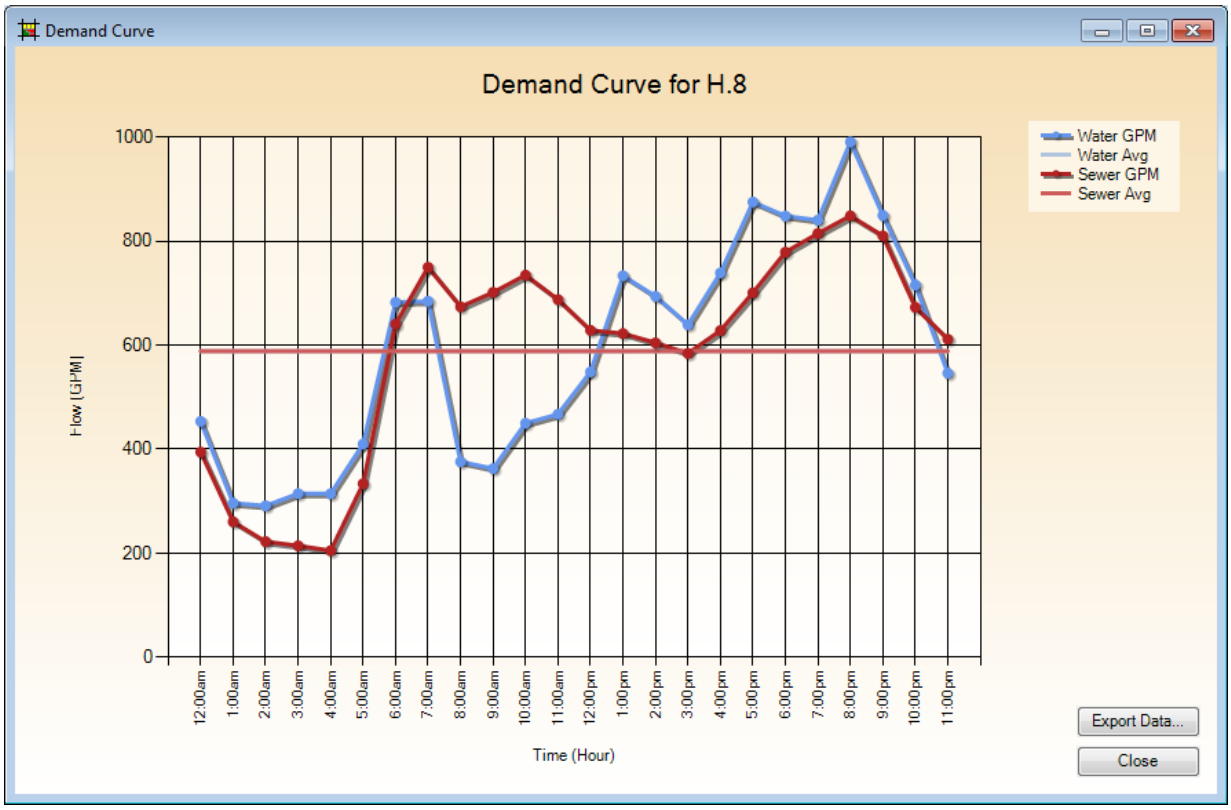
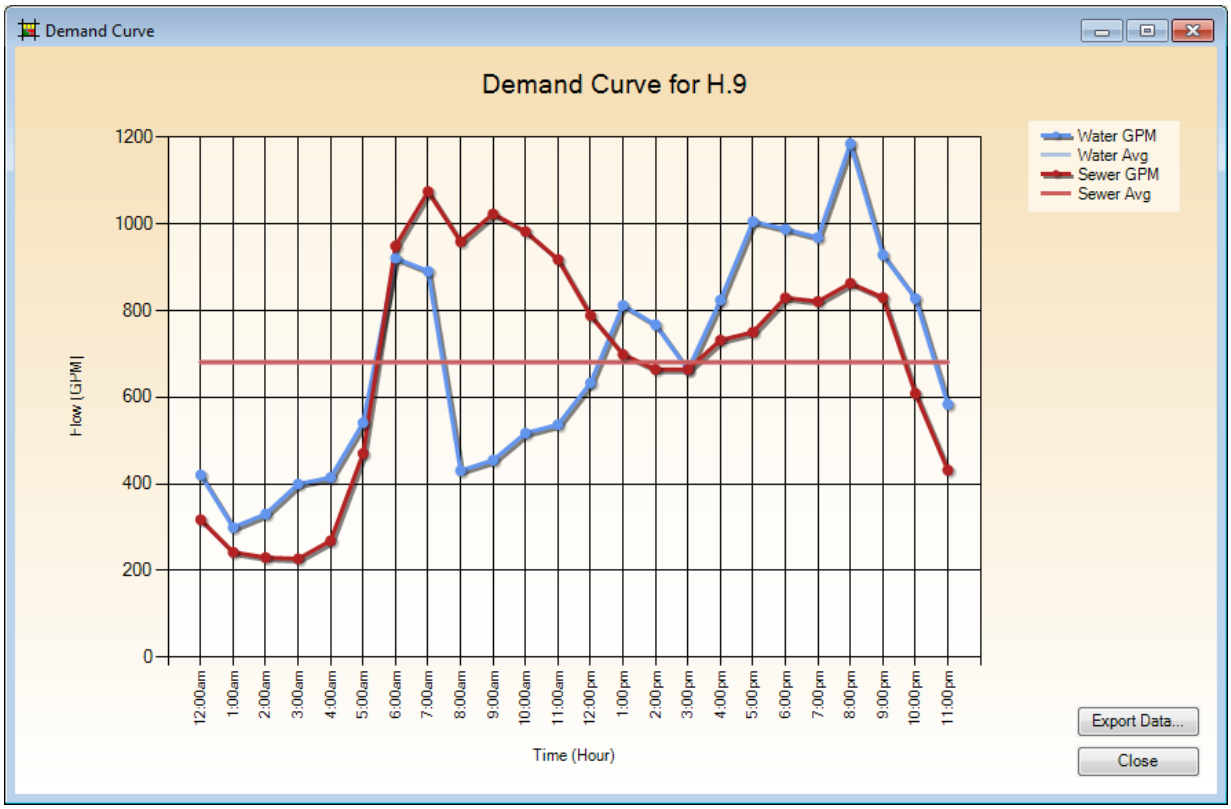
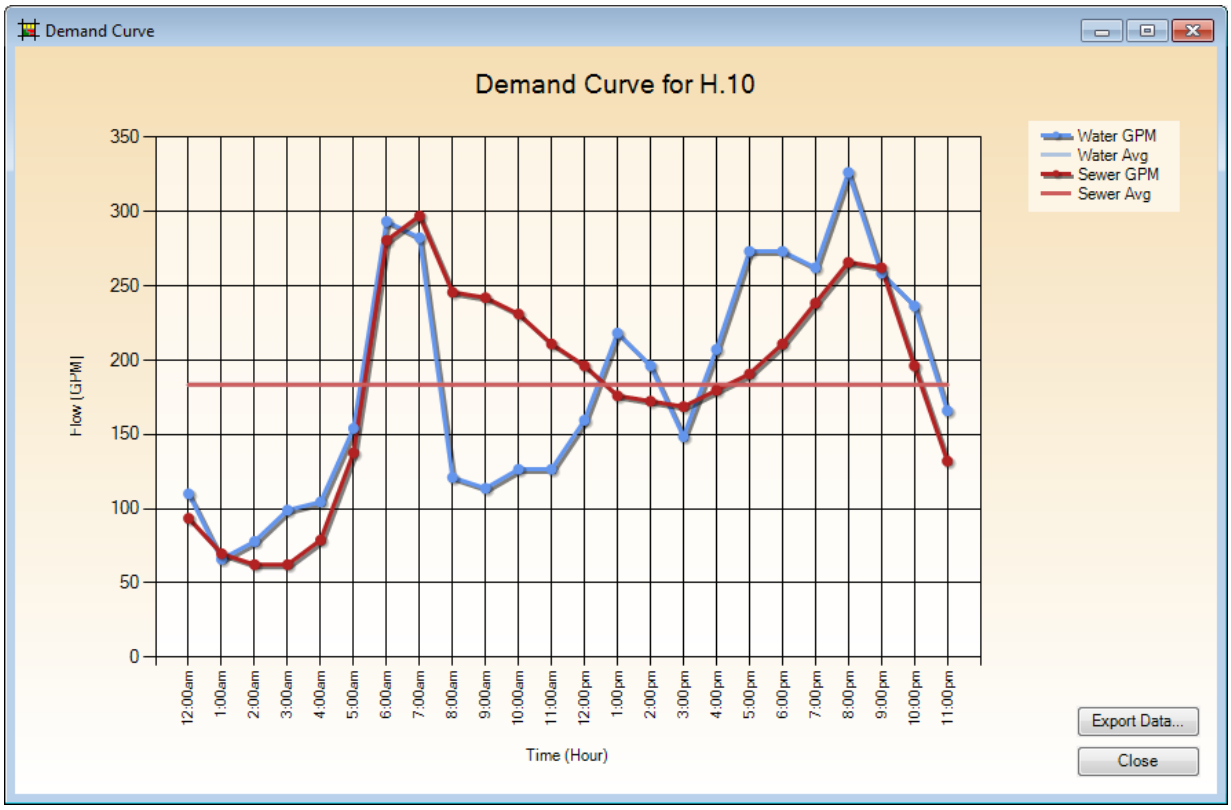
8:00am
9:00am
10:00am
11:00am
12:00pm
1:00pm
2:00pm
3:00pm
4:00pm
5:00pm
6:00pm
7:00pm
8:00pm
9:00pm
10:00pm
11:00pm
Time (Hour)
Export Data...
Close

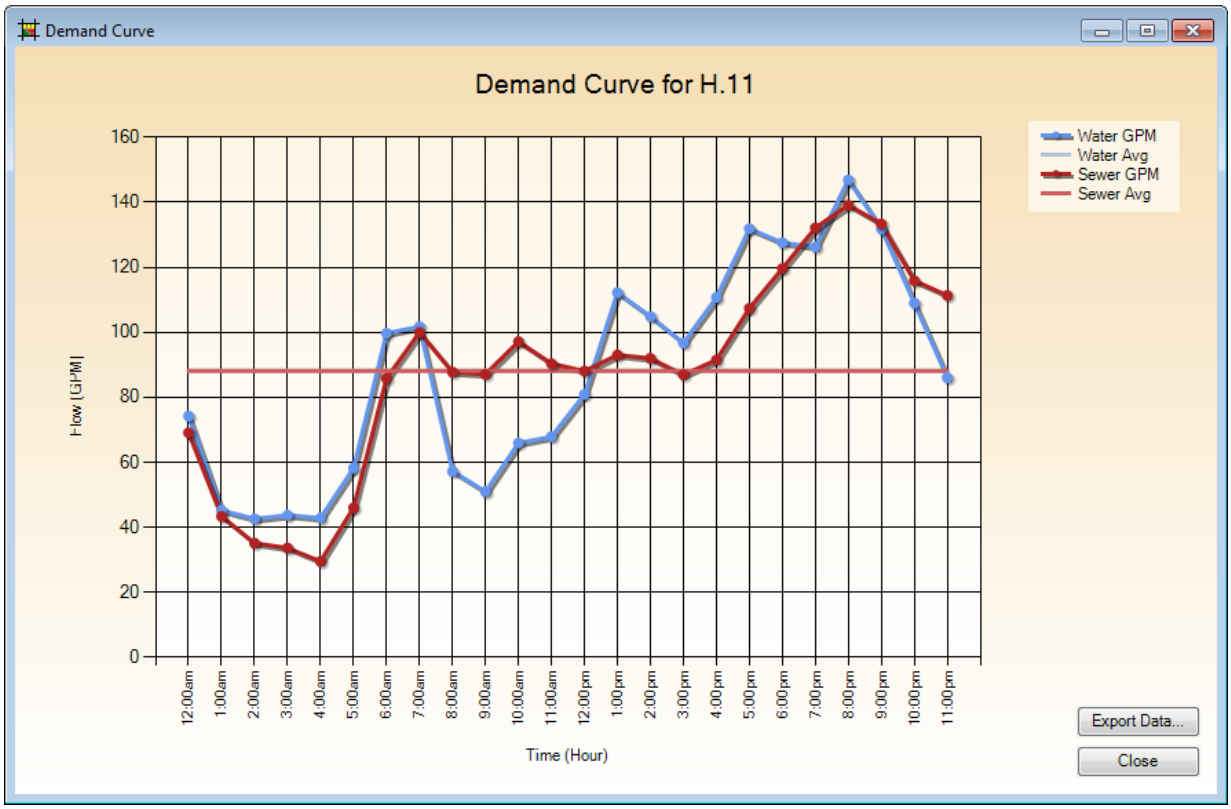

Demand Curve
Demand Curve for H.6
Water GPM
Water Avg
Sewer GPM
Sewer Avg
Flow [GPM]
0
200
400
600
800
1000
1200
12:00am
1:00am
2:00am
3:00am
4:00am
5:00am
6:00am
7:00am
8:00am
9:00am
10:00am
11:00am
12:00pm
1:00pm
2:00pm
3:00pm
4:00pm
5:00pm
6:00pm
7:00pm
8:00pm
9:00pm
10:00pm
11:00pm
Time (Hour)
Export Data...
Close

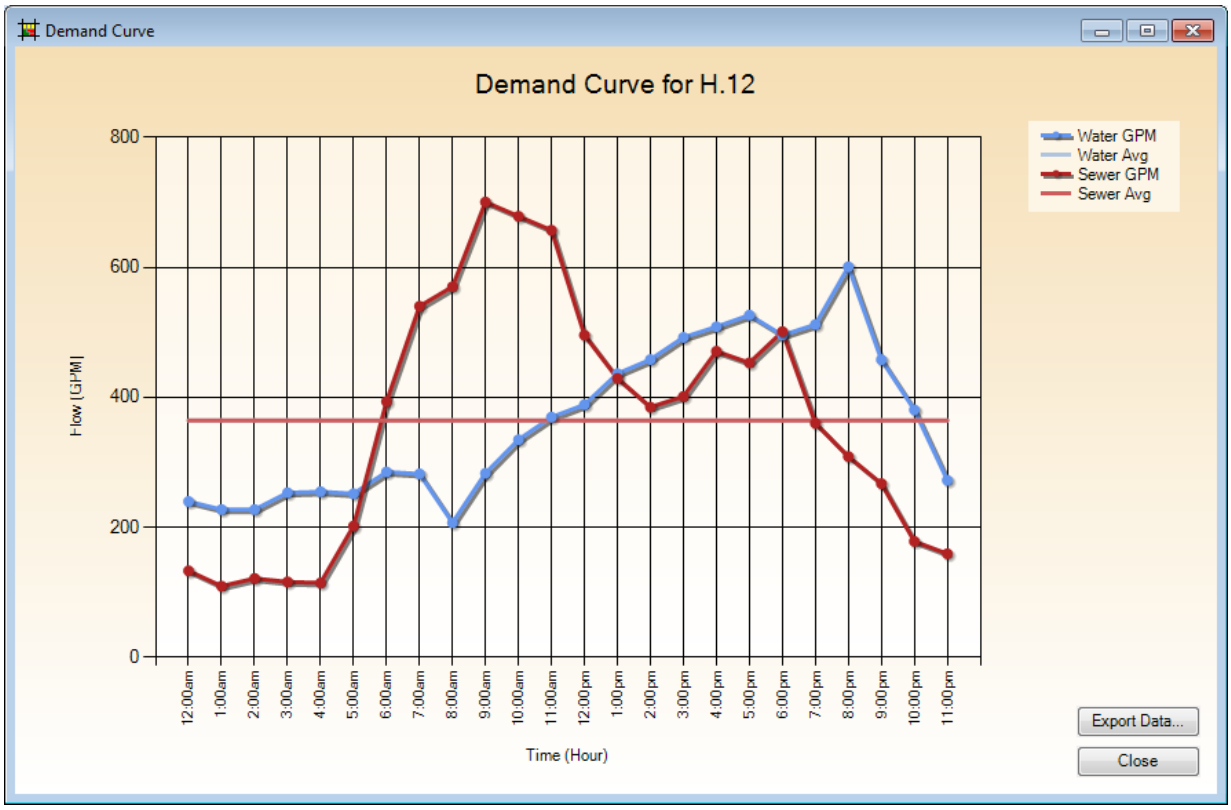

Demand Curve
Demand Curve for H.7
Water GPM
Water Avg
Sewer GPM
Sewer Avg
Flow [GPM]
800
600
400
200
0
12:00am
1:00am
2:00am
3:00am
4:00am
5:00am
6:00am
7:00am
8:00am
9:00am
10:00am
11:00am
12:00pm
1:00pm
2:00pm
3:00pm
4:00pm
5:00pm
6:00pm
7:00pm
8:00pm
9:00pm
10:00pm
11:00pm
Time (Hour)
Export Data...
Close

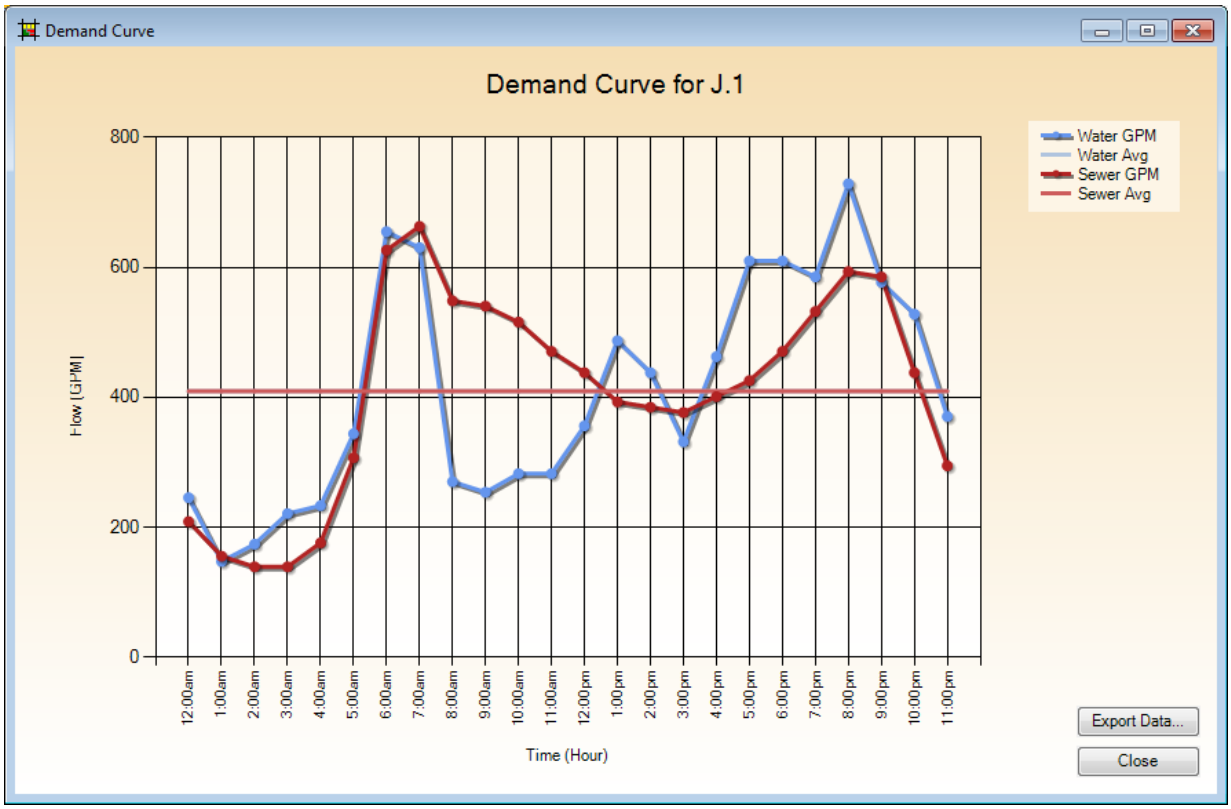

Demand Curve
Demand Curve for H.8
Water GPM
Water Avg
Sewer GPM
Sewer Avg
Flow [GPM]
1000
800
600
400
200
0
12:00am
1:00am
2:00am
3:00am
4:00am
5:00am
6:00am
7:00am
8:00am
9:00am
10:00am
11:00am
12:00pm
1:00pm
2:00pm
3:00pm
4:00pm
5:00pm
6:00pm
7:00pm
8:00pm
9:00pm
10:00pm
11:00pm
Time (Hour)
Export Data...
Close

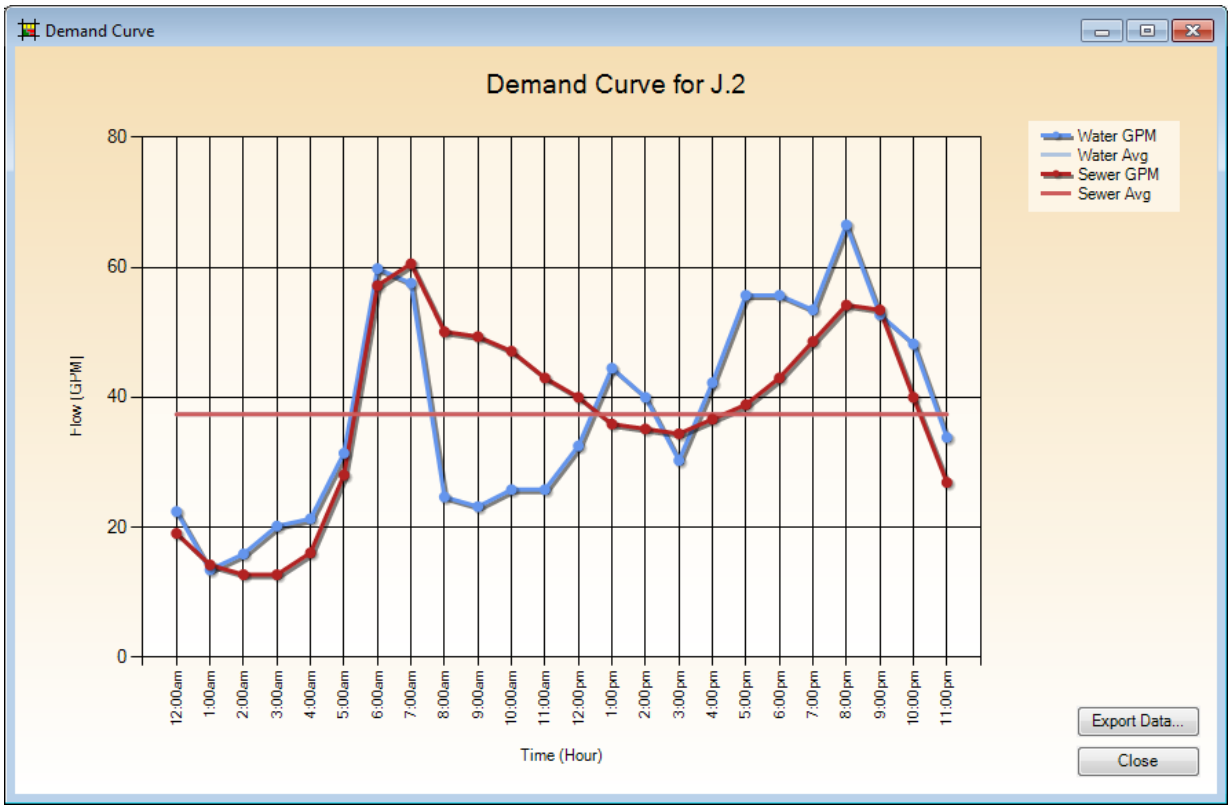

Demand Curve
Demand Curve for H.9
Water GPM
Water Avg
Sewer GPM
Sewer Avg
Flow [GPM]
0
200
400
600
800
1000
1200
12:00am
1:00am
2:00am
3:00am
4:00am
5:00am
6:00am
7:00am
8:00am
9:00am
10:00am
11:00am
12:00pm
1:00pm
2:00pm
3:00pm
4:00pm
5:00pm
6:00pm
7:00pm
8:00pm
9:00pm
10:00pm
11:00pm
Time (Hour)
Export Data...
Close

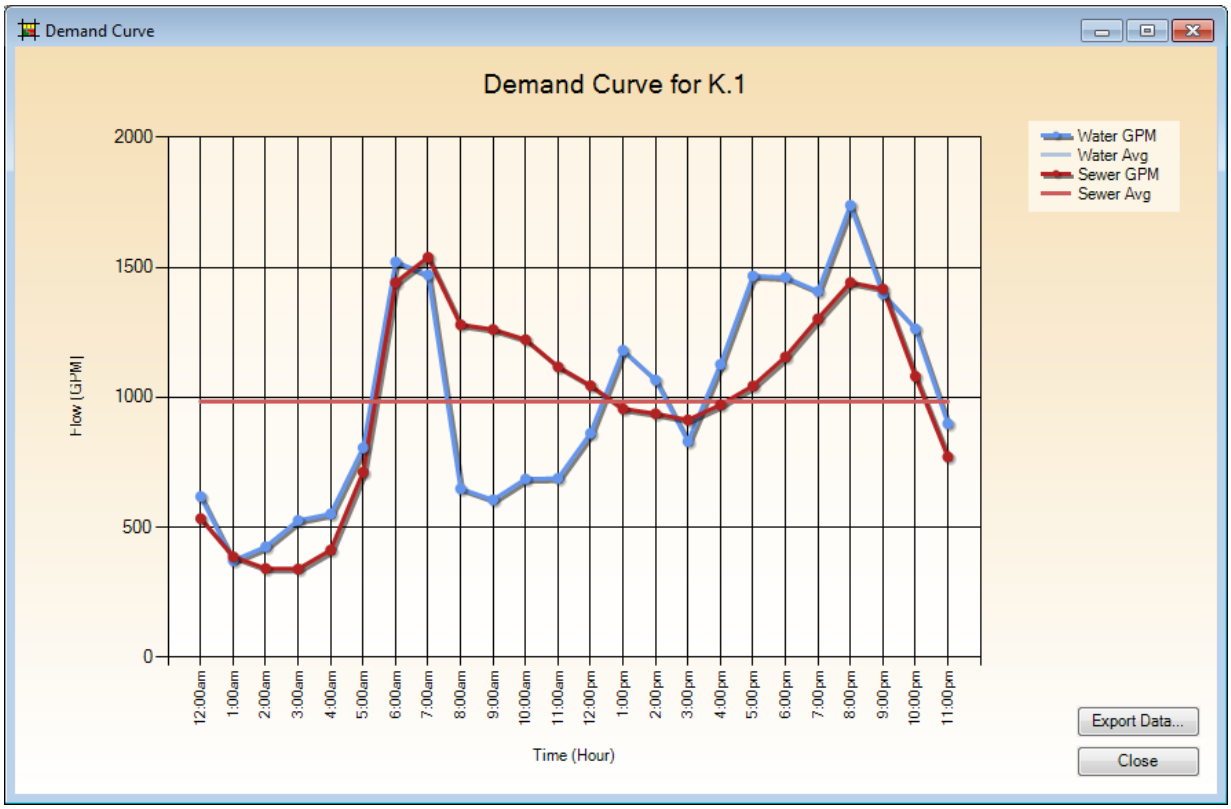

Demand Curve
Demand Curve for H.10
Water GPM
Water Avg
Sewer GPM
Sewer Avg
Flow [GPM]
0
50
100
150
200
250
300
350
12:00am
1:00am
2:00am
3:00am
4:00am
5:00am
6:00am
7:00am
8:00am
9:00am
10:00am
11:00am
12:00pm
1:00pm
2:00pm
3:00pm
4:00pm
5:00pm
6:00pm
7:00pm
8:00pm
9:00pm
10:00pm
11:00pm
Time (Hour)
Export Data...
Close

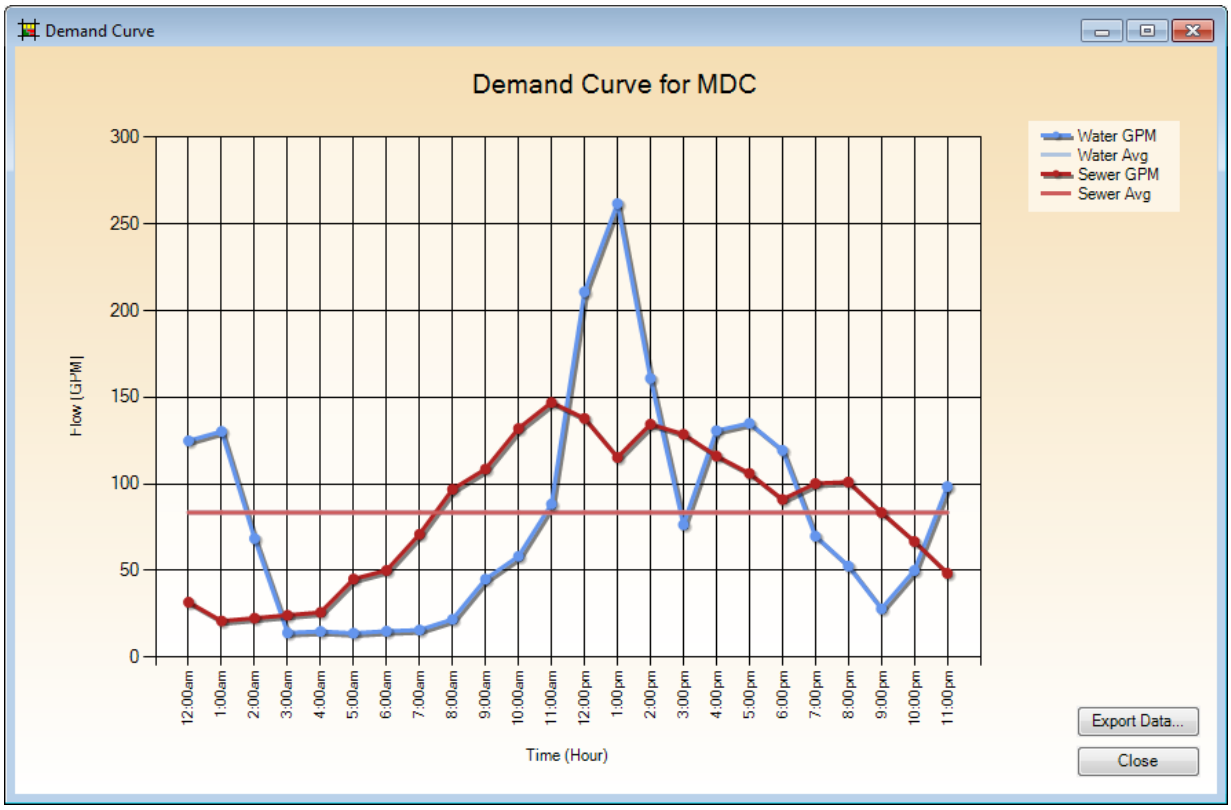

Demand Curve
Demand Curve for H.11
Water GPM
Water Avg
Sewer GPM
Sewer Avg
Flow [GPM]
0
20
40
60
80
100
120
140
160
12:00am
1:00am
2:00am
3:00am
4:00am
5:00am
6:00am
7:00am
8:00am
9:00am
10:00am
11:00am
12:00pm
1:00pm
2:00pm
3:00pm
4:00pm
5:00pm
6:00pm
7:00pm
8:00pm
9:00pm
10:00pm
11:00pm
Time (Hour)
Export Data...
Close


Demand Curve
Demand Curve for H.12
Water GPM
Water Avg
Sewer GPM
Sewer Avg
Flow [GPM]
0
200
400
600
800
12:00am
1:00am
2:00am
3:00am
4:00am
5:00am
6:00am
7:00am
8:00am
9:00am
10:00am
11:00am
12:00pm
1:00pm
2:00pm
3:00pm
4:00pm
5:00pm
6:00pm
7:00pm
8:00pm
9:00pm
10:00pm
11:00pm
Time (Hour)
Export Data...
Close

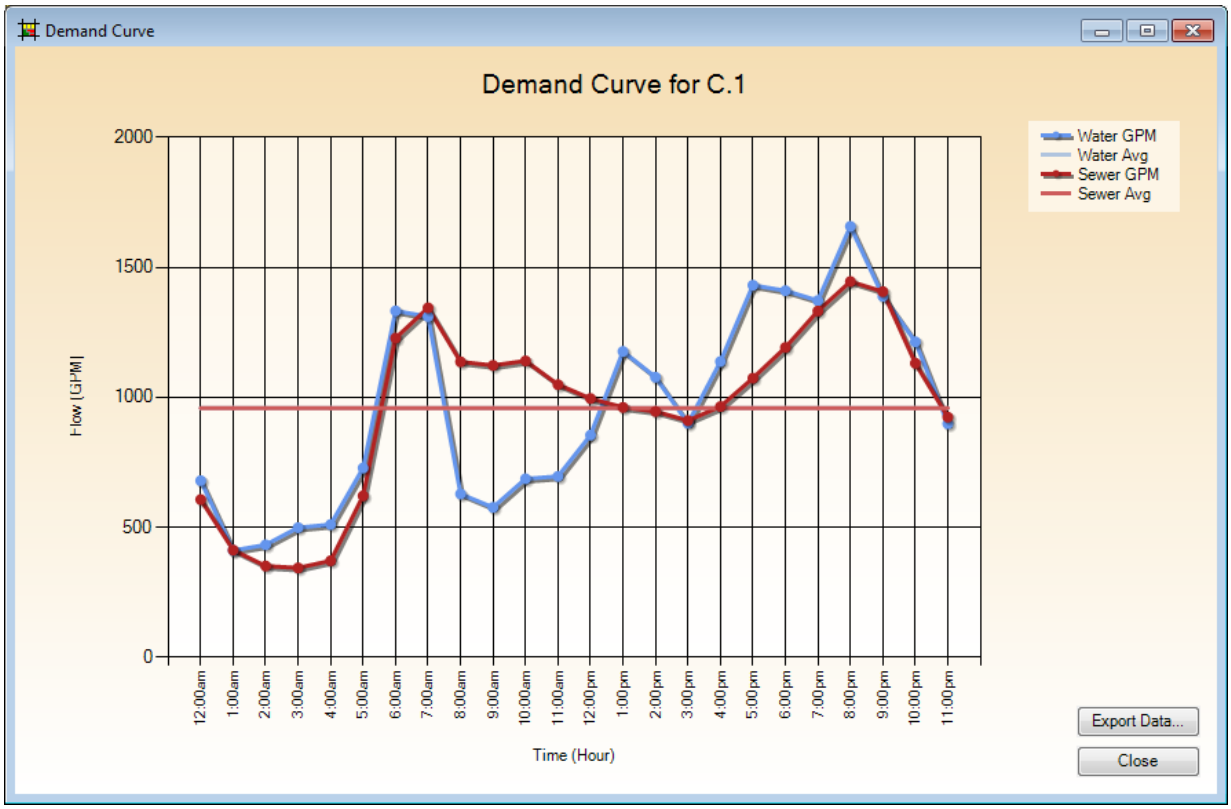

Demand Curve
Demand Curve for J.1
Water GPM
Water Avg
Sewer GPM
Sewer Avg
Flow [GPM]
800
600
400
200
0
12:00am
1:00am
2:00am
3:00am
4:00am
5:00am
6:00am
7:00am
8:00am
9:00am
10:00am
11:00am
12:00pm
1:00pm
2:00pm
3:00pm
4:00pm
5:00pm
6:00pm
7:00pm
8:00pm
9:00pm
10:00pm
11:00pm
Time (Hour)
Export Data...
Close

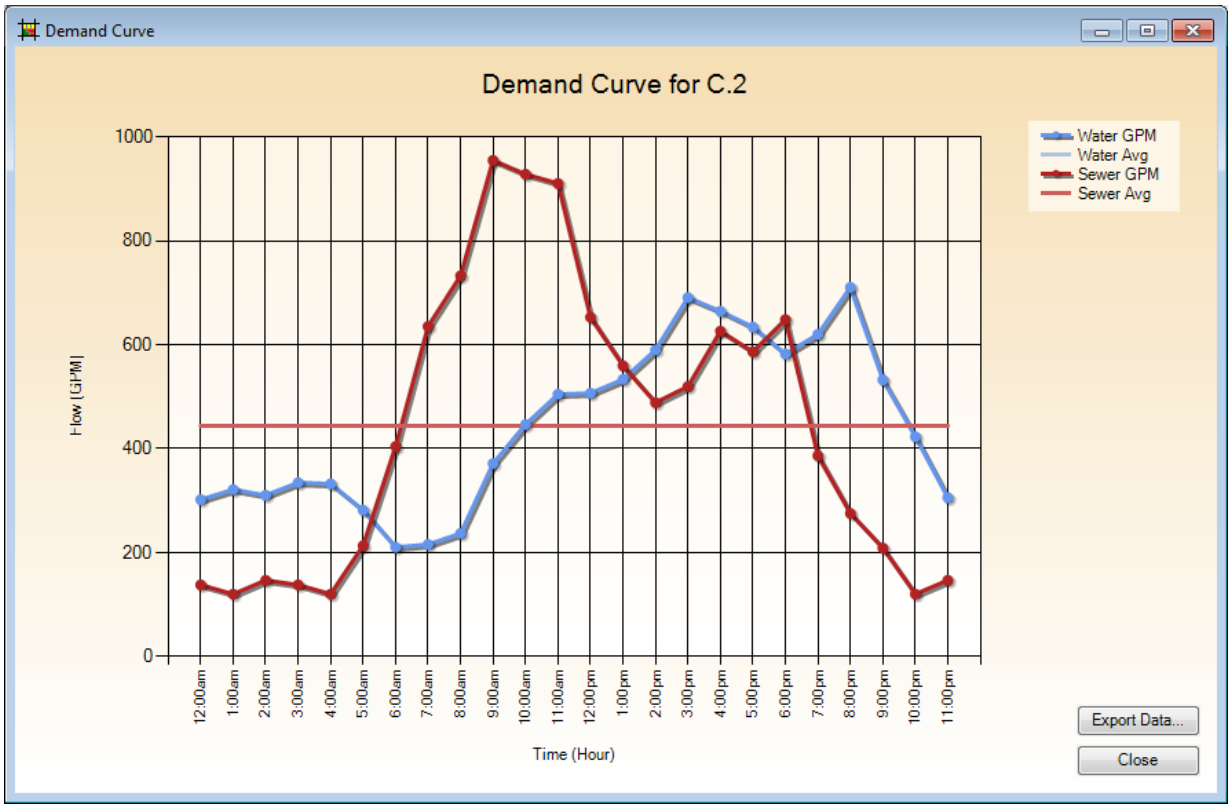

Demand Curve
Demand Curve for J.2
Water GPM
Water Avg
Sewer GPM
Sewer Avg
Flow [GPM]
80
60
40
20
0
12:00am
1:00am
2:00am
3:00am
4:00am
5:00am
6:00am
7:00am
8:00am
9:00am
10:00am
11:00am
12:00pm
1:00pm
2:00pm
3:00pm
4:00pm
5:00pm
6:00pm
7:00pm
8:00pm
9:00pm
10:00pm
11:00pm
Time (Hour)
Export Data...
Close

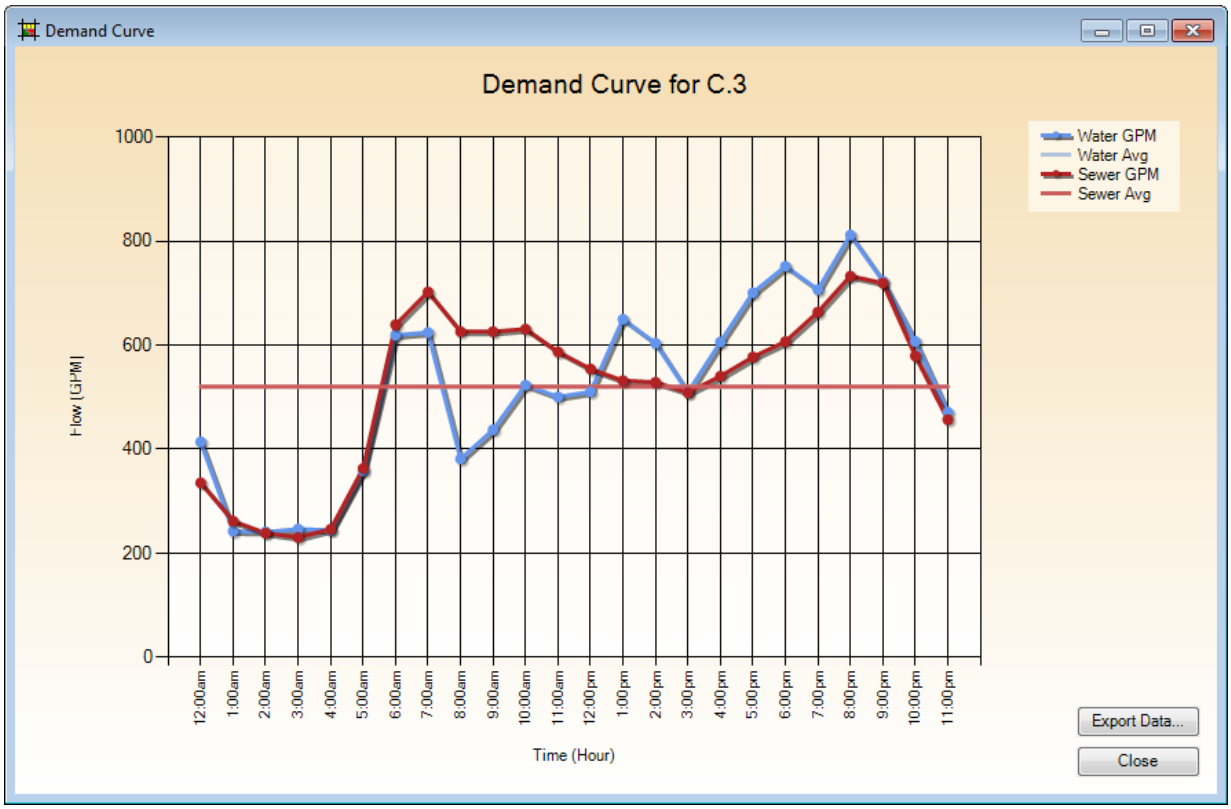

Demand Curve
Demand Curve for K.1
Water GPM
Water Avg
Sewer GPM
Sewer Avg
Flow [GPM]
2000
1500
1000
500
0
12:00am
1:00am
2:00am
3:00am
4:00am
5:00am
6:00am
7:00am
8:00am
9:00am
10:00am
11:00am
12:00pm
1:00pm
2:00pm
3:00pm
4:00pm
5:00pm
6:00pm
7:00pm
8:00pm
9:00pm
10:00pm
11:00pm
Time (Hour)
Export Data...
Close

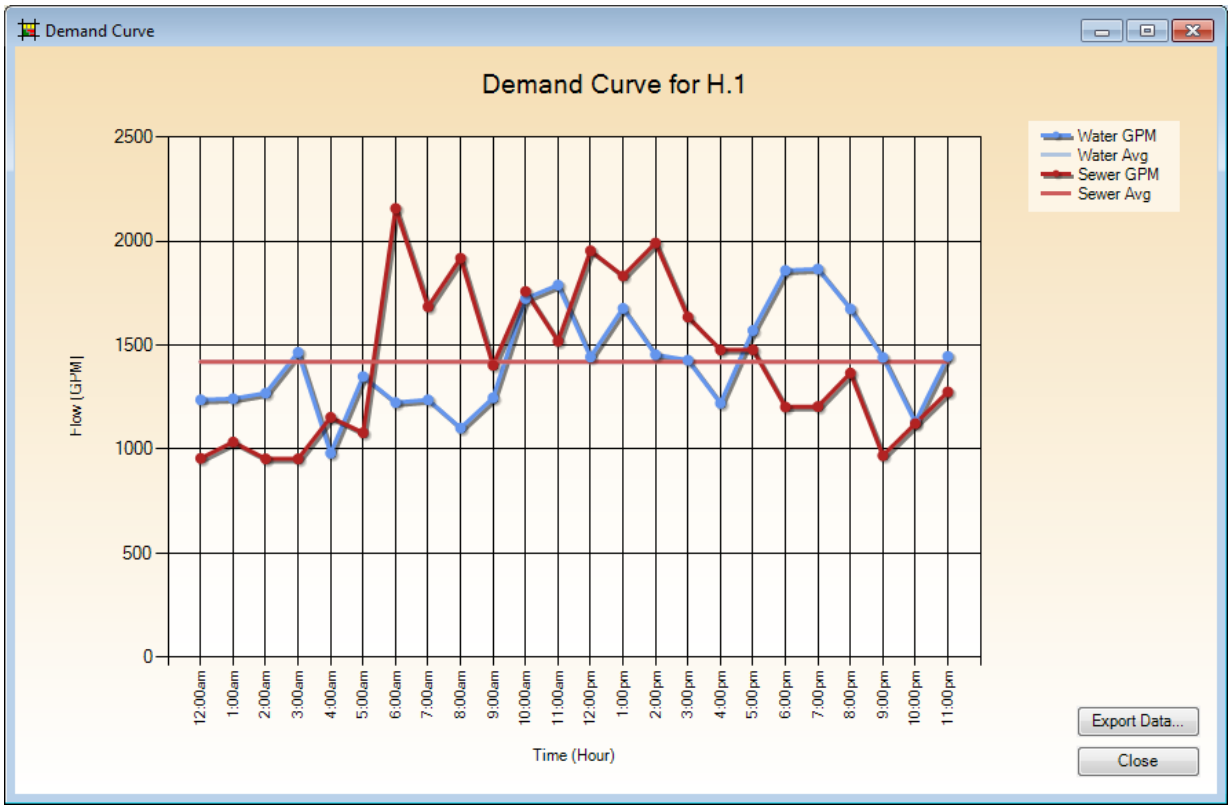

Demand Curve
Demand Curve for MDC
Water GPM
Water Avg
Sewer GPM
Sewer Avg
Flow [GPM]
300
250
200
150
100
50
0
12:00am
1:00am
2:00am
3:00am
4:00am
5:00am
6:00am
7:00am
8:00am
9:00am
10:00am
11:00am
12:00pm
1:00pm
2:00pm
3:00pm
4:00pm
5:00pm
6:00pm
7:00pm
8:00pm
9:00pm
10:00pm
11:00pm
Time (Hour)
Export Data...
Close

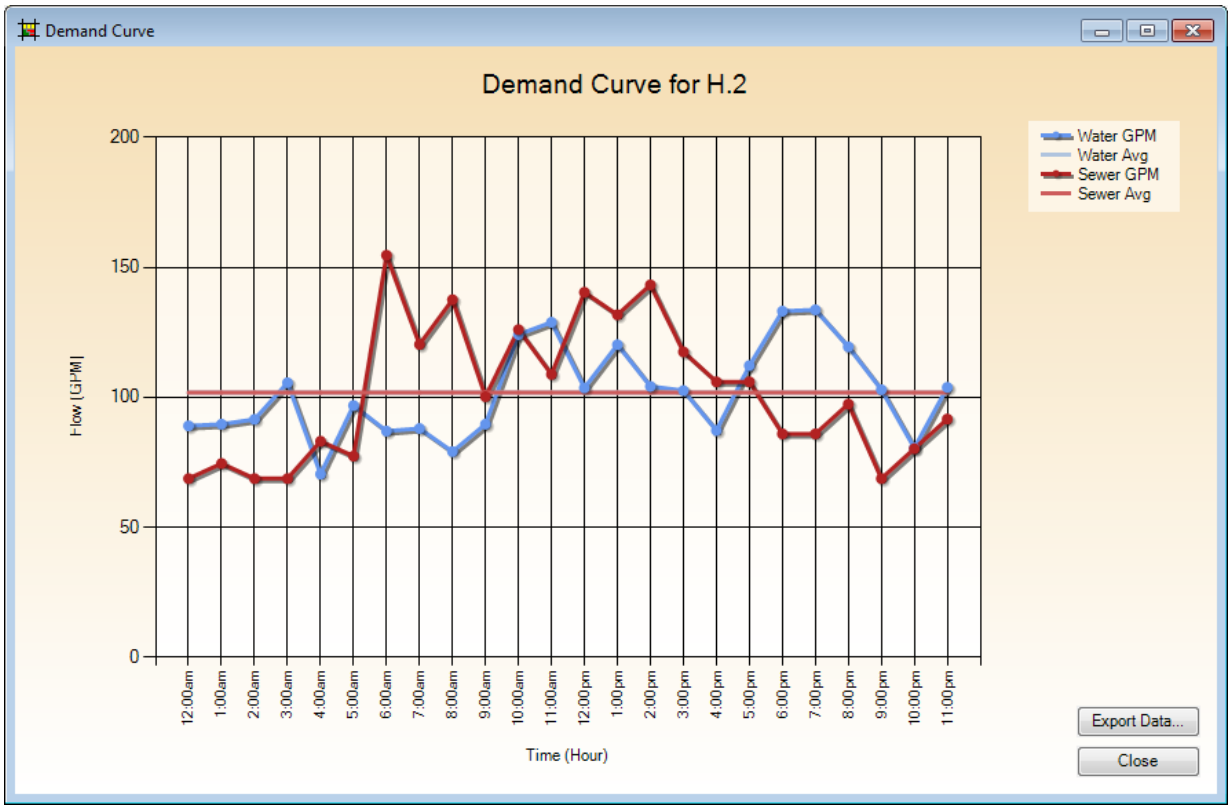
Phase 1 Condition Pattern Flow Curves by Basin

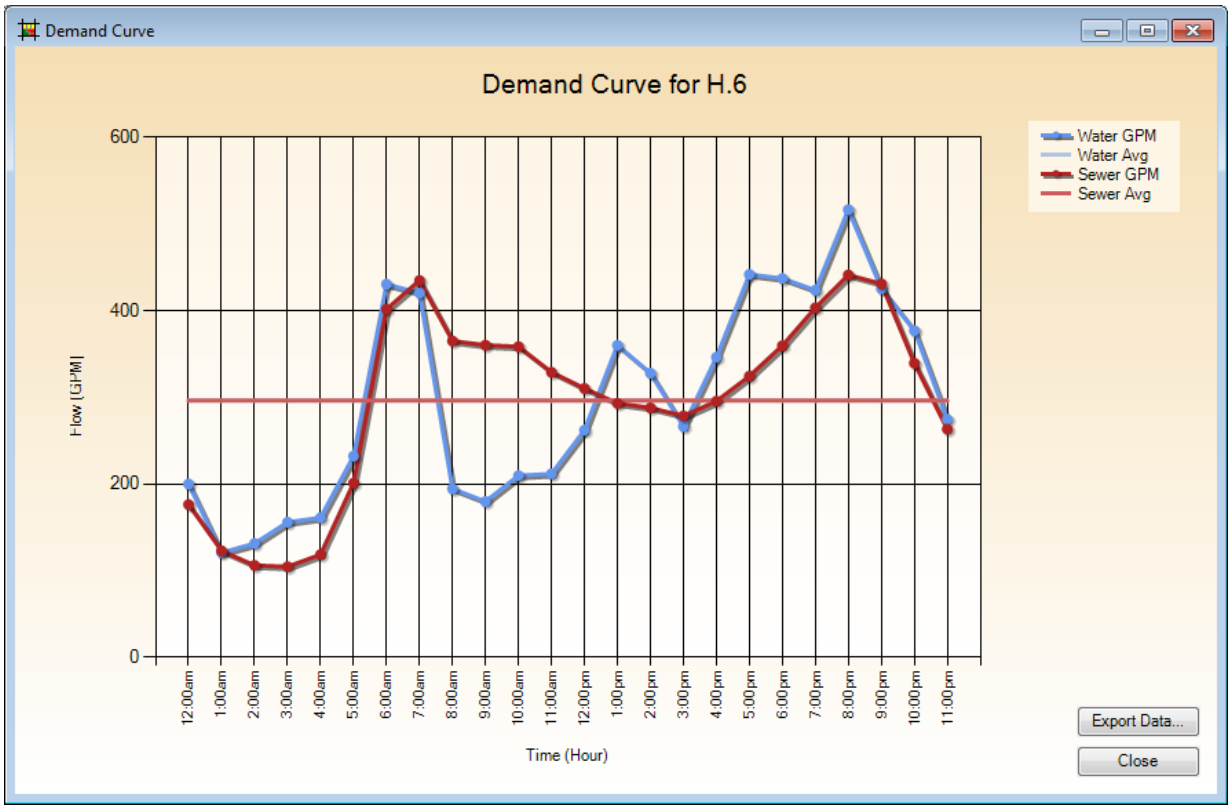


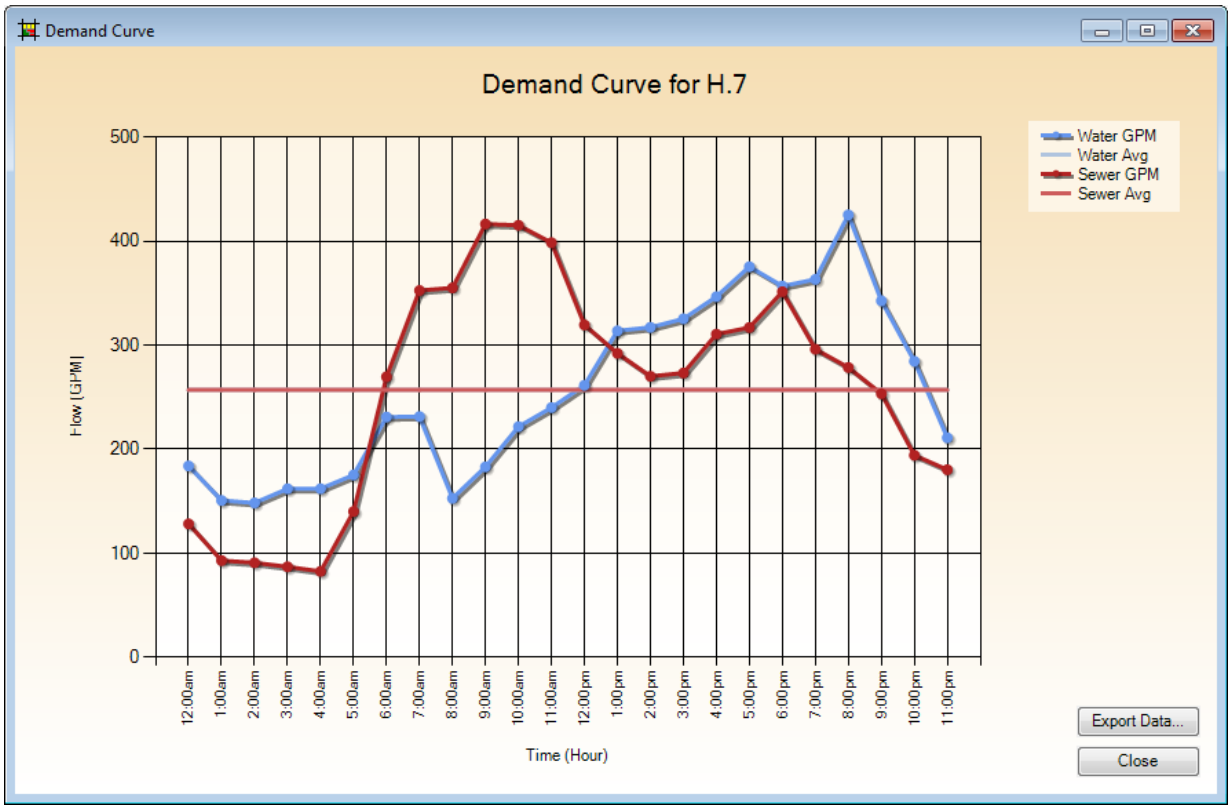


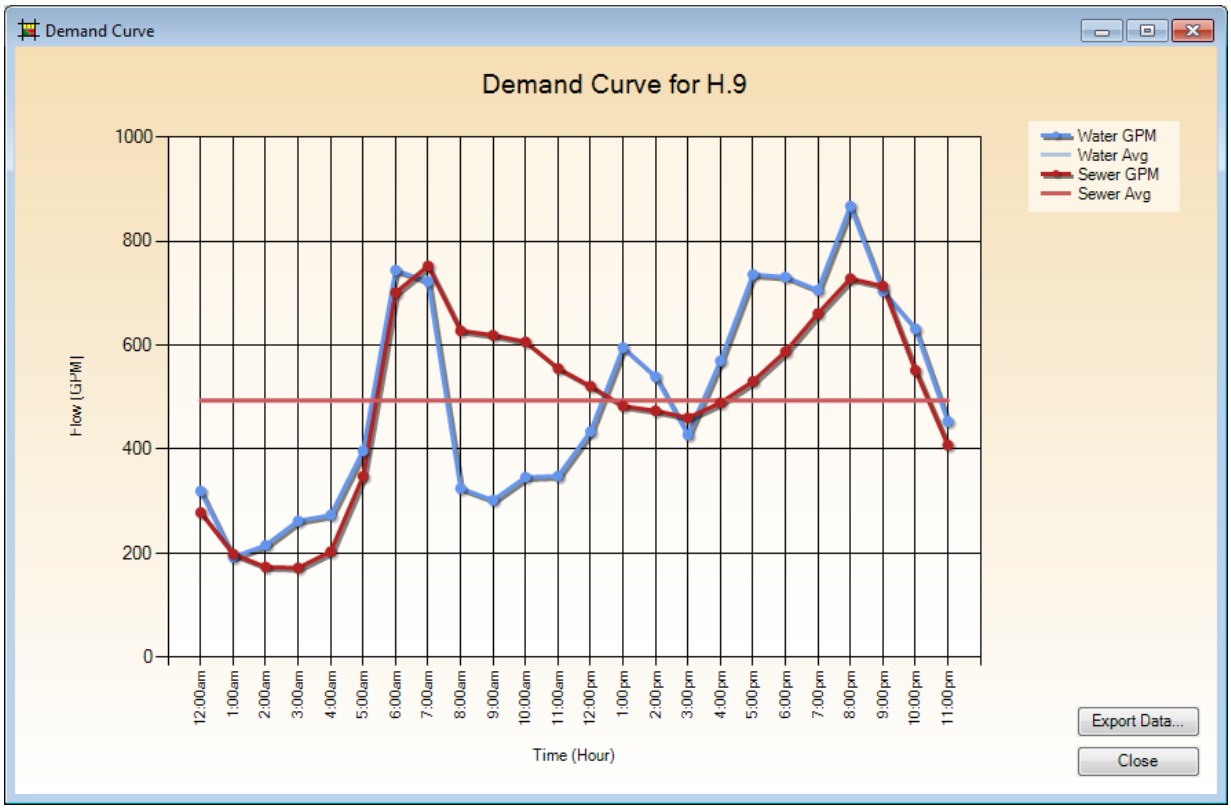

Demand Curve
Demand Curve for C.3
Water GPM
Water Avg
Sewer GPM
Sewer Avg
Flow [GPM]
1000
800
600
400
200
0
12:00am
1:00am
2:00am
3:00am
4:00am
5:00am
6:00am
7:00am
8:00am
9:00am
10:00am
11:00am
12:00pm
1:00pm
2:00pm
3:00pm
4:00pm
5:00pm
6:00pm
7:00pm
8:00pm
9:00pm
10:00pm
11:00pm
Time (Hour)
Export Data...
Close

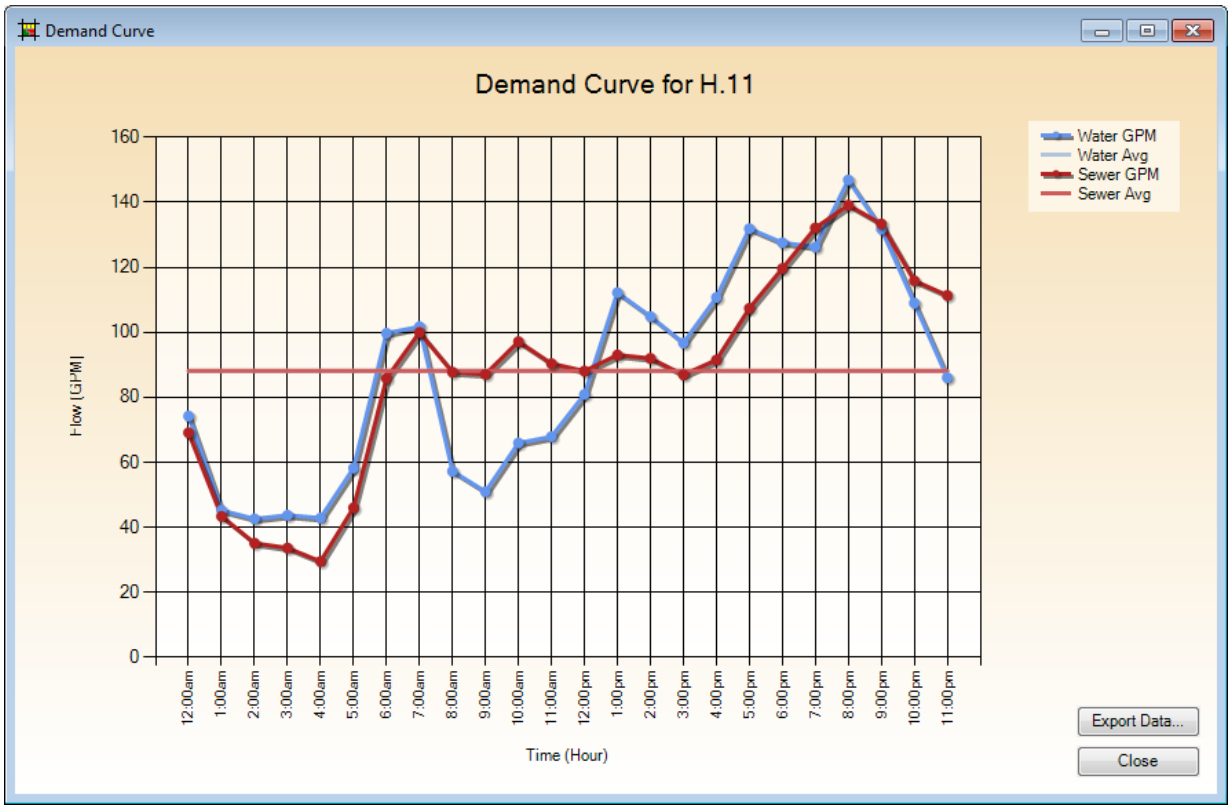

Demand Curve
Demand Curve for H.1
Water GPM
Water Avg
Sewer GPM
Sewer Avg
Flow [GPM]
2500
2000
1500
1000
500
0
12:00am
1:00am
2:00am
3:00am
4:00am
5:00am
6:00am
7:00am
8:00am
9:00am
10:00am
11:00am
12:00pm
1:00pm
2:00pm
3:00pm
4:00pm
5:00pm
6:00pm
7:00pm
8:00pm
9:00pm
10:00pm
11:00pm
Time (Hour)
Export Data...
Close

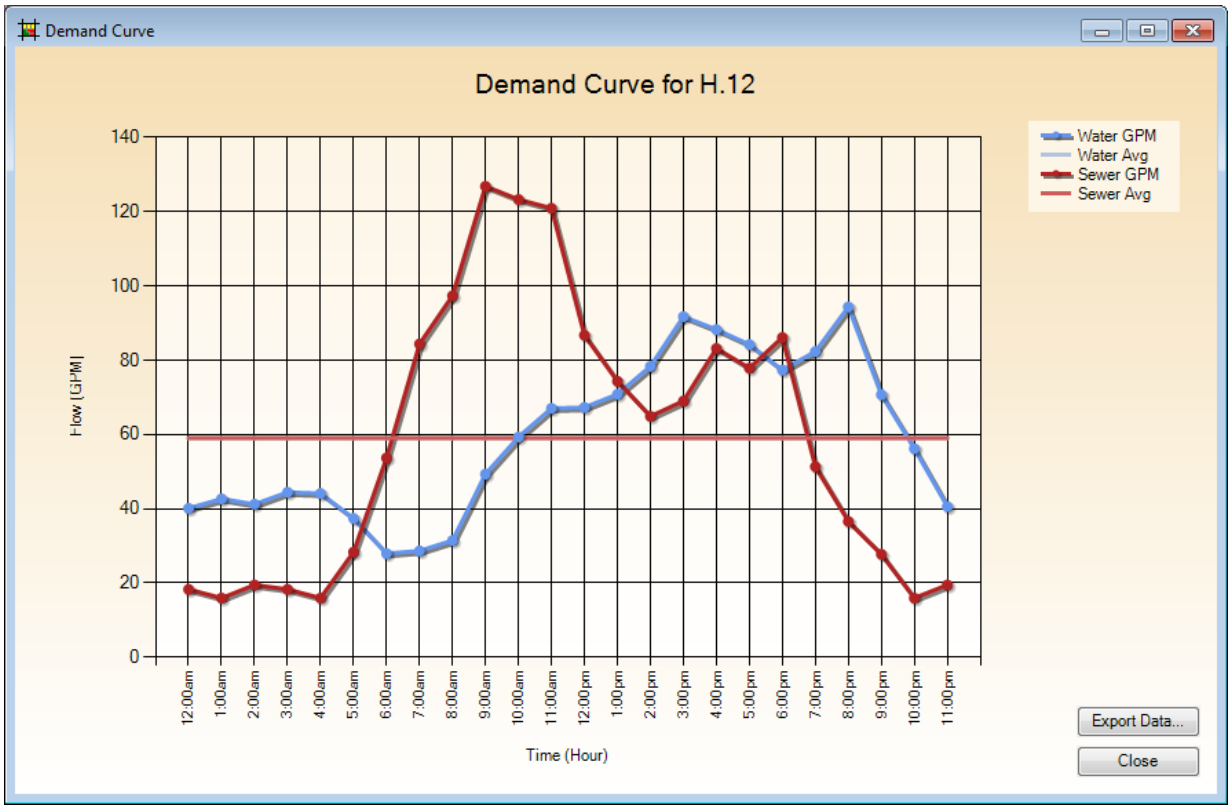

Demand Curve
Demand Curve for H.2
Water GPM
Water Avg
Sewer GPM
Sewer Avg
Flow [GPM]
200
150
100
50
0
12:00am
1:00am
2:00am
3:00am
4:00am
5:00am
6:00am
7:00am
8:00am
9:00am
10:00am
11:00am
12:00pm
1:00pm
2:00pm
3:00pm
4:00pm
5:00pm
6:00pm
7:00pm
8:00pm
9:00pm
10:00pm
11:00pm
Time (Hour)
Export Data...
Close

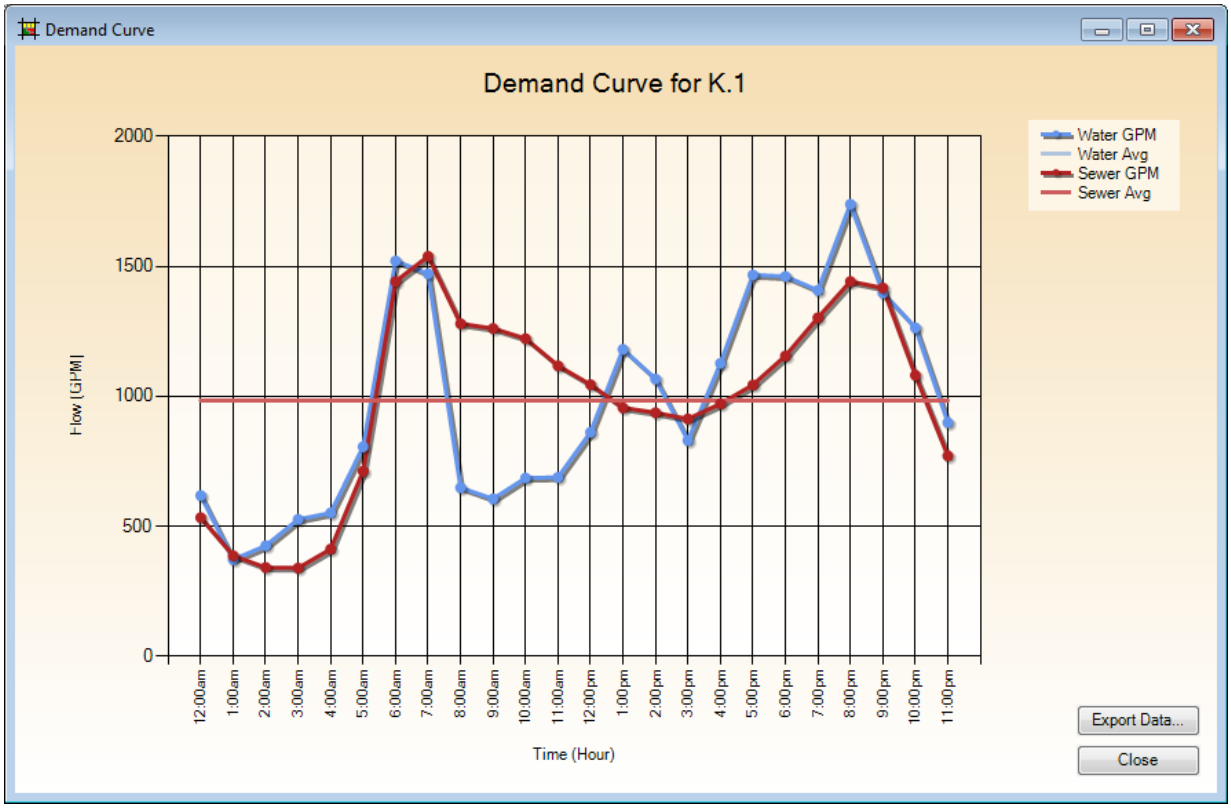

Demand Curve
Demand Curve for H.6
Water GPM
Water Avg
Sewer GPM
Sewer Avg
Flow [GPM]
600
400
200
0
12:00am
1:00am
2:00am
3:00am
4:00am
5:00am
6:00am
7:00am
8:00am
9:00am
10:00am
11:00am
12:00pm
1:00pm
2:00pm
3:00pm
4:00pm
5:00pm
6:00pm
7:00pm
8:00pm
9:00pm
10:00pm
11:00pm
Time (Hour)
Export Data...
Close

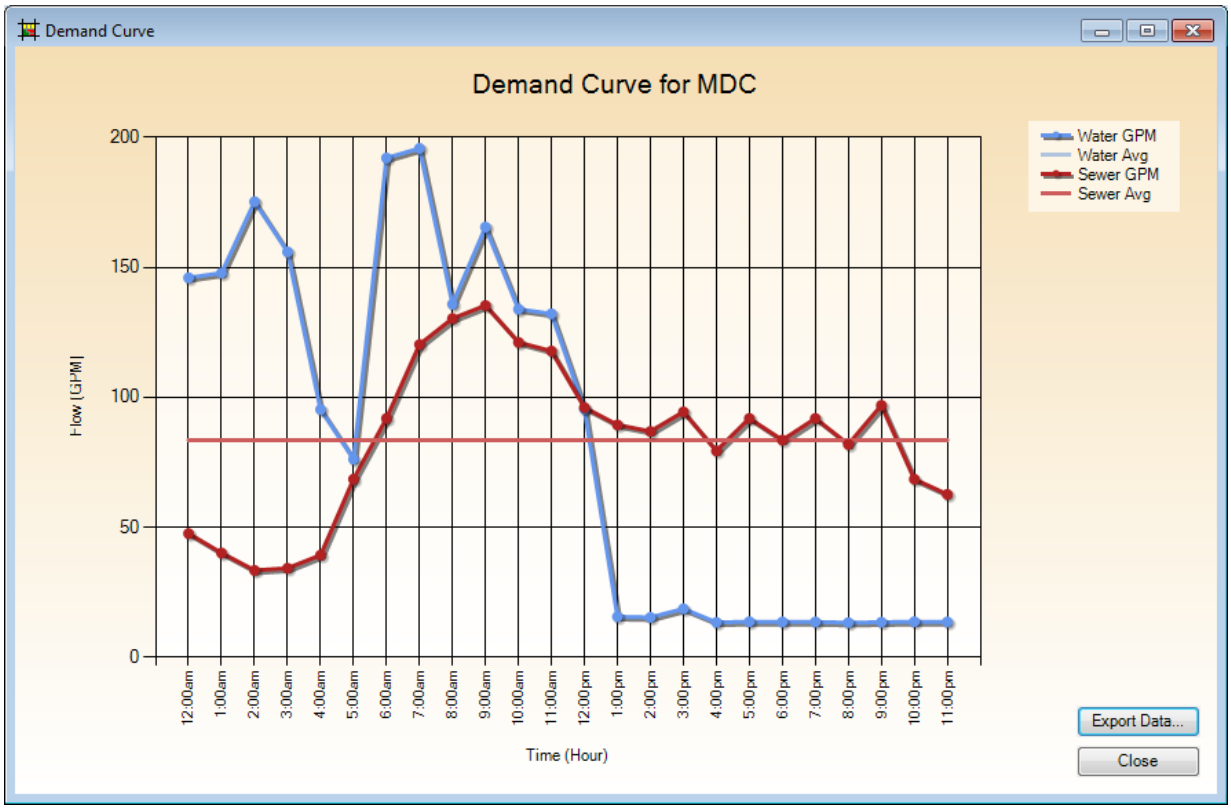

Demand Curve
Demand Curve for H.7
Water GPM
Water Avg
Sewer GPM
Sewer Avg
Flow [GPM]
0
100
200
300
400
500
12:00am
1:00am
2:00am
3:00am
4:00am
5:00am
6:00am
7:00am
8:00am
9:00am
10:00am
11:00am
12:00pm
1:00pm
2:00pm
3:00pm
4:00pm
5:00pm
6:00pm
7:00pm
8:00pm
9:00pm
10:00pm
11:00pm
Time (Hour)
Export Data...
Close


Demand Curve
Demand Curve for H.9
Water GPM
Water Avg
Sewer GPM
Sewer Avg
Flow [GPM]
0
200
400
600
800
1000
12:00am
1:00am
2:00am
3:00am
4:00am
5:00am
6:00am
7:00am
8:00am
9:00am
10:00am
11:00am
12:00pm
1:00pm
2:00pm
3:00pm
4:00pm
5:00pm
6:00pm
7:00pm
8:00pm
9:00pm
10:00pm
11:00pm
Time (Hour)
Export Data...
Close


Demand Curve
Demand Curve for H.11
Water GPM
Water Avg
Sewer GPM
Sewer Avg
Flow [GPM]
0
20
40
60
80
100
120
140
160
12:00am
1:00am
2:00am
3:00am
4:00am
5:00am
6:00am
7:00am
8:00am
9:00am
10:00am
11:00am
12:00pm
1:00pm
2:00pm
3:00pm
4:00pm
5:00pm
6:00pm
7:00pm
8:00pm
9:00pm
10:00pm
11:00pm
Time (Hour)
Export Data...
Close


Demand Curve
Demand Curve for H.12
Water GPM
Water Avg
Sewer GPM
Sewer Avg
Flow [GPM]
0
20
40
60
80
100
120
140
12:00am
1:00am
2:00am
3:00am
4:00am
5:00am
6:00am
7:00am
8:00am
9:00am
10:00am
11:00am
12:00pm
1:00pm
2:00pm
3:00pm
4:00pm
5:00pm
6:00pm
7:00pm
8:00pm
9:00pm
10:00pm
11:00pm
Time (Hour)
Export Data...
Close


Demand Curve
Demand Curve for K.1
Water GPM
Water Avg
Sewer GPM
Sewer Avg
Flow [GPM]
2000
1500
1000
500
0
12:00am
1:00am
2:00am
3:00am
4:00am
5:00am
6:00am
7:00am
8:00am
9:00am
10:00am
11:00am
12:00pm
1:00pm
2:00pm
3:00pm
4:00pm
5:00pm
6:00pm
7:00pm
8:00pm
9:00pm
10:00pm
11:00pm
Time (Hour)
Export Data...
Close


Demand Curve
Demand Curve for MDC
Water GPM
Water Avg
Sewer GPM
Sewer Avg
Flow [GPM]
200
150
100
50
0
12:00am
1:00am
2:00am
3:00am
4:00am
5:00am
6:00am
7:00am
8:00am
9:00am
10:00am
11:00am
12:00pm
1:00pm
2:00pm
3:00pm
4:00pm
5:00pm
6:00pm
7:00pm
8:00pm
9:00pm
10:00pm
11:00pm
Time (Hour)
Export Data...
Close

Ultimate Buildout Summary Output by Basin

SAS BASINS C.1 11/19/2012 4:48 PM

Category	Land Use	Count	Acres	Clipped Acres	Winter Gal/Day (Adj)	Summer Gal/Day (Adj)	% of Area	% of Wnt	% of Smr
	EXISTING:								
0	No Use	0	0	0	0	0	0.00%	-	-
1.1	LR Westside New	0	0	0	0	0	0.00%	-	-
5	Heavy Commercial	0	0	0	0	0	0.00%	-	-
	Sub-Totals	0	0	0	0	0	0.00%	NaN%	NaN%
	FUTURE:								
0	No Use	0	0	0	0	0	0.00%	-	-
1.1	LR Westside New	7	2312.13	824.09	1236140	1450404	76.80%	-	-
5	Heavy Commercial	7	101.48	69.09	215902	345443	6.40%	-	-
	Sub-Totals	14	2413.61	893.18	1452042	1795847	83.20%	100.00%	100.00%
	TOTAL:								
0	No Use	1	0	0	0	0	0.00%	-	-
1.1	LR Westside New	7	2312.13	824.09	1236140	1450404	76.80%	-	-
5	Heavy Commercial	7	101.48	69.09	215902	345443	6.40%	-	-
	Computed ROW			180.13			16.80%		
TOTALS		15	2413.61	1073.31	1452042	1795847	100.00%	100.00%	100.00%

SAS BASINS C.2 11/20/2012 10:18 AM

Category	Land Use	Count	Acres	Clipped Acres	Winter Gal/Day (Adj)	Summer Gal/Day (Adj)	% of Area	% of Wnt	% of Smr
	EXISTING:								
1.1	LR Westside New	0	0	0	0	0	0.00%	-	-
4	Light Commercial	0	0	0	0	0	0.00%	-	-
6	Light Industrial	0	0	0	0	0	0.00%	-	-
	Sub-Totals	0	0	0	0	0	0.00%	NaN%	NaN%
	FUTURE:								
1.1	LR Westside New	1	710.94	0	2	2	0.00%	-	-
4	Light Commercial	2	1259.37	938.42	1466275	2346039	88.80%	-	-
6	Light Industrial	1	42.9	0.01	38	61	0.00%	-	-
	Sub-Totals	4	2013.21	938.43	1466315	2346102	88.80%	100.00%	100.00%
	TOTAL:								
1.1	LR Westside New	1	710.94	0	2	2	0.00%	-	-
4	Light Commercial	2	1259.37	938.42	1466275	2346039	88.80%	-	-

6	Light Industrial	1	42.9	0.01	38	61	0.00%	-	-
	Computed ROW			118.12			11.20%		
TOTALS		4	2013.21	1056.55	1466315	2346102	100.00%	100.00%	100.00%

SAS BASINS C.3 11/20/2012 10:19 AM

Category	Land Use	Count	Acres	Clipped Acres	Winter Gal/Day (Adj)	Summer Gal/Day (Adj)	% of Area	% of Wnt	% of Smr
	EXISTING:								
0	No Use	0	0	0	0	0	0.00%	-	-
1.1	LR Westside New	0	0	0	0	0	0.00%	-	-
2	Medium Residential	0	0	0	0	0	0.00%	-	-
4	Light Commercial	0	0	0	0	0	0.00%	-	-
5	Heavy Commercial	0	0	0	0	0	0.00%	-	-
6	Light Industrial	0	0	0	0	0	0.00%	-	-
	Sub-Totals	0	0	0	0	0	0.00%	NaN%	NaN%
	FUTURE:								
0	No Use	0	0	0	0	0	0.00%	-	-
1.1	LR Westside New	3	670.3	299.96	449941	527931	59.10%	-	-
2	Medium Residential	1	119.64	119.02	223155	357047	23.40%	-	-
4	Light Commercial	1	8.1	0.02	35	57	0.00%	-	-
5	Heavy Commercial	2	25.6	24	75008	120013	4.70%	-	-
6	Light Industrial	1	42.9	0.37	1172	1875	0.10%	-	-
	Sub-Totals	8	866.54	443.37	749311	1006923	87.30%	100.00%	100.00%
	TOTAL:								
0	No Use	1	0	0	0	0	0.00%	-	-
1.1	LR Westside New	3	670.3	299.96	449941	527931	59.10%	-	-
2	Medium Residential	1	119.64	119.02	223155	357047	23.40%	-	-
4	Light Commercial	1	8.1	0.02	35	57	0.00%	-	-
5	Heavy Commercial	2	25.6	24	75008	120013	4.70%	-	-
6	Light Industrial	1	42.9	0.37	1172	1875	0.10%	-	-
	Computed ROW			64.42			12.70%		
TOTALS		9	866.54	507.79	749311	1006923	100.00%	100.00%	100.00%

SAS BASINS C.7 11/19/2012 4:51 PM

Category	Land Use	Count	Acres	Clipped Acres	Winter Gal/Day (Adj)	Summer Gal/Day (Adj)	% of Area	% of Wnt	% of Smr
	EXISTING:								
0	No Use	0	0	0	0	0	0.00%	-	-
1.1	LR Westside New	0	0	0	0	0	0.00%	-	-
4	Light Commercial	0	0	0	0	0	0.00%	-	-
	Sub-Totals	0	0	0	0	0	0.00%	NaN%	NaN%

	FUTURE:								
0	No Use	0	0	0	0	0	0.00%	-	-
1.1	LR Westside New	4	393.83	380.95	571421	670468	61.70%	-	-
4	Light Commercial	2	177.59	1.93	3015	4825	0.30%	-	-
	Sub-Totals	6	571.42	382.88	574436	675293	62.00%	100.00%	100.00%
	TOTAL:								
0	No Use	4	0	0	0	0	0.00%	-	-
1.1	LR Westside New	4	393.83	380.95	571421	670468	61.70%	-	-
4	Light Commercial	2	177.59	1.93	3015	4825	0.30%	-	-
	Computed ROW			234.39			38.00%		
TOTALS		10	571.42	617.27	574436	675293	100.00%	100.00%	100.00%

SAS BASINS H.1 11/19/2012 5:16 PM

Category	Land Use	Count	Acres	Clipped Acres	Winter Gal/Day (Adj)	Summer Gal/Day (Adj)	% of Area	% of Wnt	% of Smr
	EXISTING:								
0	No Use	0	0	0	0	0	0.00%	-	-
1.1	LR Westside New	0	0	0	0	0	0.00%	-	-
4	Light Commercial	0	0	0	0	0	0.00%	-	-
5	Heavy Commercial	0	0	0	0	0	0.00%	-	-
6	Light Industrial	0	0	0	0	0	0.00%	-	-
	Sub-Totals	0	0	0	0	0	0.00%	NaN%	NaN%
	FUTURE:								
0	No Use	0	0	0	0	0	0.00%	-	-
1.1	LR Westside New	4	1287.83	837.36	1256039	1473753	42.20%	-	-
4	Light Commercial	1	689.49	313.44	489747	783596	15.80%	-	-
5	Heavy Commercial	2	29.06	10.28	32133	51412	0.50%	-	-
6	Light Industrial	2	1252.27	775.59	2423721	3877953	39.00%	-	-
	Sub-Totals	9	3258.65	1936.67	4201640	6186714	97.50%	100.00%	100.00%
	TOTAL:								
0	No Use	1	0	0	0	0	0.00%	-	-
1.1	LR Westside New	4	1287.83	837.36	1256039	1473753	42.20%	-	-
4	Light Commercial	1	689.49	313.44	489747	783596	15.80%	-	-
5	Heavy Commercial	2	29.06	10.28	32133	51412	0.50%	-	-
6	Light Industrial	2	1252.27	775.59	2423721	3877953	39.00%	-	-
	Computed ROW			49.84			2.50%		
TOTALS		10	3258.65	1986.51	4201640	6186714	100.00%	100.00%	100.00%

SAS BASINS H.2 11/20/2012 9:38 AM

Category	Land Use	Count	Acres	Clipped Acres	Winter Gal/Day (Adj)	Summer Gal/Day (Adj)	% of Area	% of Wnt	% of Smr

	EXISTING:								
1.1	LR Westside New	0	0	0	0	0	0.00%	-	-
5	Heavy Commercial	0	0	0	0	0	0.00%	-	-
6	Light Industrial	0	0	0	0	0	0.00%	-	-
	Sub-Totals	0	0	0	0	0	0.00%	NaN%	NaN%
	FUTURE:								
1.1	LR Westside New	2	1059.79	387.88	581813	682661	25.60%	-	-
5	Heavy Commercial	2	29.02	22.46	70190	112303	1.50%	-	-
6	Light Industrial	4	2150.27	961.51	3004728	4807566	63.30%	-	-
	Sub-Totals	8	3239.08	1371.85	3656731	5602530	90.40%	100.00%	100.00%
	TOTAL:								
1.1	LR Westside New	2	1059.79	387.88	581813	682661	25.60%	-	-
5	Heavy Commercial	2	29.02	22.46	70190	112303	1.50%	-	-
6	Light Industrial	4	2150.27	961.51	3004728	4807566	63.30%	-	-
	Computed ROW			145.94			9.60%		
TOTALS		8	3239.08	1517.79	3656731	5602530	100.00%	100.00%	100.00%

SAS BASINS H.3 11/20/2012 9:39 AM

Category	Land Use	Count	Acres	Clipped Acres	Winter Gal/Day (Adj)	Summer Gal/Day (Adj)	% of Area	% of Wnt	% of Smr
	EXISTING:								
1.1	LR Westside New	0	0	0	0	0	0.00%	-	-
6	Light Industrial	0	0	0	0	0	0.00%	-	-
	Sub-Totals	0	0	0	0	0	0.00%	NaN%	NaN%
	FUTURE:								
1.1	LR Westside New	1	906.66	237.95	356932	418800	29.60%	-	-
6	Light Industrial	2	898	410.46	1282690	2052304	51.10%	-	-
	Sub-Totals	3	1804.66	648.41	1639622	2471104	80.70%	100.00%	100.00%
	TOTAL:								
1.1	LR Westside New	1	906.66	237.95	356932	418800	29.60%	-	-
6	Light Industrial	2	898	410.46	1282690	2052304	51.10%	-	-
	Computed ROW			154.65			19.30%		
TOTALS		3	1804.66	803.06	1639622	2471104	100.00%	100.00%	100.00%

SAS BASINS H.4 11/20/2012 9:39 AM

Category	Land Use	Count	Acres	Clipped Acres	Winter Gal/Day (Adj)	Summer Gal/Day (Adj)	% of Area	% of Wnt	% of Smr
	EXISTING:								
1.1	LR Westside New	0	0	0	0	0	0.00%	-	-
5	Heavy Commercial	0	0	0	0	0	0.00%	-	-

	Sub-Totals	0	0	0	0	0	0.00%	NaN%	NaN%
	FUTURE:								
1.1	LR Westside New	5	2932.14	943.41	1415121	1660409	92.90%	-	-
5	Heavy Commercial	2	29.56	25.83	80733	129173	2.50%	-	-
	Sub-Totals	7	2961.7	969.24	1495854	1789582	95.40%	100.00%	100.00%
	TOTAL:								
1.1	LR Westside New	5	2932.14	943.41	1415121	1660409	92.90%	-	-
5	Heavy Commercial	2	29.56	25.83	80733	129173	2.50%	-	-
	Computed ROW			46.66			4.60%		
TOTALS		7	2961.7	1015.9	1495854	1789582	100.00%	100.00%	100.00%

SAS BASINS H.5 11/20/2012 9:40 AM

Category	Land Use	Count	Acres	Clipped Acres	Winter Gal/Day (Adj)	Summer Gal/Day (Adj)	% of Area	% of Wnt	% of Smr
	EXISTING:								
1.1	LR Westside New	0	0	0	0	0	0.00%	-	-
	Sub-Totals	0	0	0	0	0	0.00%	NaN%	NaN%
	FUTURE:								
1.1	LR Westside New	4	2400.66	432.06	648084	760418	95.50%	-	-
	Sub-Totals	4	2400.66	432.06	648084	760418	95.50%	100.00%	100.00%
	TOTAL:								
1.1	LR Westside New	4	2400.66	432.06	648084	760418	95.50%	-	-
	Computed ROW			20.19			4.50%		
TOTALS		4	2400.66	452.25	648084	760418	100.00%	100.00%	100.00%

SAS BASINS H.6 11/20/2012 9:40 AM

Category	Land Use	Count	Acres	Clipped Acres	Winter Gal/Day (Adj)	Summer Gal/Day (Adj)	% of Area	% of Wnt	% of Smr
	EXISTING:								
1.1	LR Westside New	0	0	0	0	0	0.00%	-	-
4	Light Commercial	0	0	0	0	0	0.00%	-	-
5	Heavy Commercial	0	0	0	0	0	0.00%	-	-
	Sub-Totals	0	0	0	0	0	0.00%	NaN%	NaN%
	FUTURE:								
1.1	LR Westside New	5	1704.13	588.43	882651	1035644	87.40%	-	-
4	Light Commercial	2	298.55	17.66	27589	44143	2.60%	-	-
5	Heavy Commercial	2	38.88	9.1	28436	45497	1.40%	-	-
	Sub-Totals	9	2041.56	615.19	938676	1125284	91.40%	100.00%	100.00%

	TOTAL:								
1.1	LR Westside New	5	1704.13	588.43	882651	1035644	87.40%	-	-
4	Light Commercial	2	298.55	17.66	27589	44143	2.60%	-	-
5	Heavy Commercial	2	38.88	9.1	28436	45497	1.40%	-	-
	Computed ROW			57.8			8.60%		
TOTALS		9	2041.56	672.99	938676	1125284	100.00%	100.00%	100.00%

SAS BASINS H.7 11/20/2012 9:57 AM

Category	Land Use	Count	Acres	Clipped Acres	Winter Gal/Day (Adj)	Summer Gal/Day (Adj)	% of Area	% of Wnt	% of Smr
	EXISTING:								
1.1	LR Westside New	0	0	0	0	0	0.00%	-	-
4	Light Commercial	0	0	0	0	0	0.00%	-	-
	Sub-Totals	0	0	0	0	0	0.00%	NaN%	NaN%
	FUTURE:								
1.1	LR Westside New	3	756.28	119.88	179816	210984	32.80%	-	-
4	Light Commercial	2	379.4	193.16	301818	482909	52.80%	-	-
	Sub-Totals	5	1135.68	313.04	481634	693893	85.60%	100.00%	100.00%
	TOTAL:								
1.1	LR Westside New	3	756.28	119.88	179816	210984	32.80%	-	-
4	Light Commercial	2	379.4	193.16	301818	482909	52.80%	-	-
	Computed ROW			52.69			14.40%		
TOTALS		5	1135.68	365.73	481634	693893	100.00%	100.00%	100.00%

SAS BASINS H.8 12/5/2012 4:45 PM

Category	Land Use	Count	Acres	Clipped Acres	Winter Gal/Day (Adj)	Summer Gal/Day (Adj)	% of Area	% of Wnt	% of Smr
	EXISTING:								
0	No Use	0	0	0	0	0	0.00%	-	-
1.1	LR Westside New	0	0	0	0	0	0.00%	-	-
4	Light Commercial	0	0	0	0	0	0.00%	-	-
5	Heavy Commercial	0	0	0	0	0	0.00%	-	-
	Sub-Totals	0	0	0	0	0	0.00%	NaN%	NaN%
	FUTURE:								
0	No Use	0	0	0	0	0	0.00%	-	-
1.1	LR Westside New	5	1032.99	344.57	516859	606448	68.40%	-	-
4	Light Commercial	6	504.04	61.36	95870	153392	12.20%	-	-
5	Heavy Commercial	1	75.22	75.22	235050	376080	14.90%	-	-
	Sub-Totals	12	1612.25	481.15	847779	1135920	95.50%	100.00%	100.00%
	TOTAL:								

0	No Use	4	0	0	0	0	0.00%	-	-
1.1	LR Westside New	5	1032.99	344.57	516859	606448	68.40%	-	-
4	Light Commercial	6	504.04	61.36	95870	153392	12.20%	-	-
5	Heavy Commercial	1	75.22	75.22	235050	376080	14.90%	-	-
	Computed ROW			22.44			4.50%		
TOTALS		16	1612.25	503.59	847779	1135920	100.00%	100.00%	100.00%

SAS BASINS H.9 11/20/2012 9:58 AM

Category	Land Use	Count	Acres	Clipped Acres	Winter Gal/Day (Adj)	Summer Gal/Day (Adj)	% of Area	% of Wnt	% of Smr
	EXISTING:								
0	No Use	0	0	0	0	0	0.00%	-	-
1.1	LR Westside New	0	0	0	0	0	0.00%	-	-
4	Light Commercial	0	0	0	0	0	0.00%	-	-
	Sub-Totals	0	0	0	0	0	0.00%	NaN%	NaN%
	FUTURE:								
0	No Use	0	0	0	0	0	0.00%	-	-
1.1	LR Westside New	2	585.2	510.1	765145	897771	76.60%	-	-
4	Light Commercial	1	168.34	138.05	215699	345118	20.70%	-	-
	Sub-Totals	3	753.54	648.15	980844	1242889	97.30%	100.00%	100.00%
	TOTAL:								
0	No Use	1	0	0	0	0	0.00%	-	-
1.1	LR Westside New	2	585.2	510.1	765145	897771	76.60%	-	-
4	Light Commercial	1	168.34	138.05	215699	345118	20.70%	-	-
	Computed ROW			18.18			2.70%		
TOTALS		4	753.54	666.33	980844	1242889	100.00%	100.00%	100.00%

SAS BASINS H.10 12/5/2012 5:13 PM

Category	Land Use	Count	Acres	Clipped Acres	Winter Gal/Day (Adj)	Summer Gal/Day (Adj)	% of Area	% of Wnt	% of Smr
	EXISTING:								
1.1	LR Westside New	0	0	0	0	0	0.00%	-	-
	Sub-Totals	0	0	0	0	0	0.00%	NaN%	NaN%
	FUTURE:								
1.1	LR Westside New	4	600.05	176.05	264078	309851	34.30%	-	-
	Sub-Totals	4	600.05	176.05	264078	309851	34.30%	100.00%	100.00%
	TOTAL:								
1.1	LR Westside New	4	600.05	176.05	264078	309851	34.30%	-	-
	Computed ROW			337.21			65.70%		
TOTALS		4	600.05	513.26	264078	309851	100.00%	100.00%	100.00%

SAS BASINS H.11 11/20/2012 9:44 AM

Category	Land Use	Count	Acres	Clipped Acres	Winter Gal/Day (Adj)	Summer Gal/Day (Adj)	% of Area	% of Wnt	% of Smr
	EXISTING:								
1.1	LR Westside New	0	0	0	0	0	0.00%	-	-
5	Heavy Commercial	0	0	0	0	0	0.00%	-	-
	Sub-Totals	0	0	0	0	0	0.00%	NaN%	NaN%
	FUTURE:								
1.1	LR Westside New	3	590.26	49.49	74239	87108	60.20%	-	-
5	Heavy Commercial	2	24.68	16.85	52670	84272	20.50%	-	-
	Sub-Totals	5	614.94	66.34	126909	171380	80.80%	100.00%	100.00%
	TOTAL:								
1.1	LR Westside New	3	590.26	49.49	74239	87108	60.20%	-	-
5	Heavy Commercial	2	24.68	16.85	52670	84272	20.50%	-	-
	Computed ROW			15.81			19.20%		
TOTALS		5	614.94	82.15	126909	171380	100.00%	100.00%	100.00%

SAS BASINS H.12 12/5/2012 5:14 PM

Category	Land Use	Count	Acres	Clipped Acres	Winter Gal/Day (Adj)	Summer Gal/Day (Adj)	% of Area	% of Wnt	% of Smr
	EXISTING:								
0	No Use	0	0	0	0	0	0.00%	-	-
1.1	LR Westside New	0	0	0	0	0	0.00%	-	-
4	Light Commercial	0	0	0	0	0	0.00%	-	-
	Sub-Totals	0	0	0	0	0	0.00%	NaN%	NaN%
	FUTURE:								
0	No Use	0	0	0	0	0	0.00%	-	-
1.1	LR Westside New	3	750.21	95.91	143864	168801	23.20%	-	-
4	Light Commercial	5	421.9	243.74	380837	609339	58.90%	-	-
	Sub-Totals	8	1172.11	339.65	524701	778140	82.00%	100.00%	100.00%
	TOTAL:								
0	No Use	3	0	0	0	0	0.00%	-	-
1.1	LR Westside New	3	750.21	95.91	143864	168801	23.20%	-	-
4	Light Commercial	5	421.9	243.74	380837	609339	58.90%	-	-
	Computed ROW			74.31			18.00%		
TOTALS		11	1172.11	413.96	524701	778140	100.00%	100.00%	100.00%

SAS BASINS J.1 12/5/2012 5:15 PM

Category	Land Use	Count	Acres	Clipped Acres	Winter Gal/Day (Adj)	Summer Gal/Day (Adj)	% of Area	% of Wnt	% of Smr
	EXISTING:								
0	No Use	0	0	0	0	0	0.00%	-	-
1.1	LR Westside New	0	0	0	0	0	0.00%	-	-
	Sub-Totals	0	0	0	0	0	0.00%	NaN%	NaN%
	FUTURE:								
0	No Use	0	0	0	0	0	0.00%	-	-
1.1	LR Westside New	4	687.92	392.96	589435	691603	64.50%	-	-
	Sub-Totals	4	687.92	392.96	589435	691603	64.50%	100.00%	100.00%
	TOTAL:								
0	No Use	2	0	0	0	0	0.00%	-	-
1.1	LR Westside New	4	687.92	392.96	589435	691603	64.50%	-	-
	Computed ROW			216.45			35.50%		
TOTALS		6	687.92	609.41	589435	691603	100.00%	100.00%	100.00%

SAS BASINS J.2 12/5/2012 5:15 PM

Category	Land Use	Count	Acres	Clipped Acres	Winter Gal/Day (Adj)	Summer Gal/Day (Adj)	% of Area	% of Wnt	% of Smr
	EXISTING:								
0	No Use	0	0	0	0	0	0.00%	-	-
1.1	LR Westside New	0	0	0	0	0	0.00%	-	-
	Sub-Totals	0	0	0	0	0	0.00%	NaN%	NaN%
	FUTURE:								
0	No Use	0	0	0	0	0	0.00%	-	-
1.1	LR Westside New	1	285.13	35.88	53824	63154	43.90%	-	-
	Sub-Totals	1	285.13	35.88	53824	63154	43.90%	100.00%	100.00%
	TOTAL:								
0	No Use	1	0	0	0	0	0.00%	-	-
1.1	LR Westside New	1	285.13	35.88	53824	63154	43.90%	-	-
	Computed ROW			45.83			56.10%		
TOTALS		2	285.13	81.71	53824	63154	100.00%	100.00%	100.00%

SAS BASINS K.1 11/20/2012 9:45 AM

Category	Land Use	Count	Acres	Clipped Acres	Winter Gal/Day (Adj)	Summer Gal/Day (Adj)	% of Area	% of Wnt	% of Smr
	EXISTING:								
0	No Use	0	0	0	0	0	0.00%	-	-
1.1	LR Westside New	0	0	0	0	0	0.00%	-	-
5	Heavy Commercial	0	0	0	0	0	0.00%	-	-

	Sub-Totals	0	0	0	0	0	0.00%	NaN%	NaN%
	FUTURE:								
0	No Use	0	0	0	0	0	0.00%	-	-
1.1	LR Westside New	3	1484.73	899	1348507	1582248	93.40%	-	-
5	Heavy Commercial	3	39.8	21.94	68564	109703	2.30%	-	-
	Sub-Totals	6	1524.53	920.94	1417071	1691951	95.70%	100.00%	100.00%
	TOTAL:								
0	No Use	1	0	0	0	0	0.00%	-	-
1.1	LR Westside New	3	1484.73	899	1348507	1582248	93.40%	-	-
5	Heavy Commercial	3	39.8	21.94	68564	109703	2.30%	-	-
	Computed ROW			41.37			4.30%		
TOTALS		7	1524.53	962.31	1417071	1691951	100.00%	100.00%	100.00%

SAS BASINS	MDC	1/8/2013	10:51 AM						
Category	Land Use	Count	Acres	Clipped Acres	Winter Gal/Day (Adj)	Summer Gal/Day (Adj)	% of Area	% of Wnt	% of Smr
	EXISTING:								
0	No Use	0	0	0	0	0	0.00%	0.00%	0.00%
10	Heavy Institutional	1	153.01	152.17	120287	196640	99.80%	100.00%	100.00%
	Sub-Totals	1	153.01	152.17	120287	196640	99.80%	100.00%	100.00%
	FUTURE:								
0	No Use	0	0	0	0	0	0.00%	NaN%	NaN%
10	Heavy Institutional	0	0	0	0	0	0.00%	NaN%	NaN%
	Sub-Totals	0	0	0	0	0	0.00%	NaN%	NaN%
	TOTAL:								
0	No Use	2	0	0	0	0	0.00%	0.00%	0.00%
10	Heavy Institutional	1	153.01	152.17	120287	196640	99.80%	100.00%	100.00%
	Computed ROW			0.37			0.20%		
TOTALS		3	153.01	152.54	120287	196640	100.00%	100.00%	100.00%

Ultimate Buildout Summary Output by Basin

SAS BASINS	C.1	11/20/2012	10:29 AM						
Category	Land Use	Count	Acres	Clipped Acres	Winter Gal/Day (Adj)	Summer Gal/Day (Adj)	% of Area	% of Wnt	% of Smr

	EXISTING:								
1.1	LR Westside New	0	0	0	0	0	0.00%	-	-
5	Heavy Commercial	0	0	0	0	0	0.00%	-	-
	Sub-Totals	0	0	0	0	0	0.00%	NaN%	NaN%
	FUTURE:								
1.1	LR Westside New	10	1070.79	749.04	1123554	1318304	69.80%	-	-
5	Heavy Commercial	7	150.7	82.19	256844	410951	7.70%	-	-
	Sub-Totals	17	1221.49	831.23	1380398	1729255	77.40%	100.00%	100.00%
	TOTAL:								
1.1	LR Westside New	10	1070.79	749.04	1123554	1318304	69.80%	-	-
5	Heavy Commercial	7	150.7	82.19	256844	410951	7.70%	-	-
	Computed ROW			242.09			22.60%		
TOTALS		17	1221.49	1073.32	1380398	1729255	100.00%	100.00%	100.00%

SAS BASINS C.2 11/20/2012 10:26 AM

Category	Land Use	Count	Acres	Clipped Acres	Winter Gal/Day (Adj)	Summer Gal/Day (Adj)	% of Area	% of Wnt	% of Smr
	EXISTING:								
1.1	LR Westside New	0	0	0	0	0	0.00%	-	-
4	Light Commercial	0	0	0	0	0	0.00%	-	-
	Sub-Totals	0	0	0	0	0	0.00%	NaN%	NaN%
	FUTURE:								
1.1	LR Westside New	2	348.83	0	6	7	0.00%	-	-
4	Light Commercial	2	409.71	409.5	639851	1023762	38.80%	-	-
	Sub-Totals	4	758.54	409.5	639857	1023769	38.80%	100.00%	100.00%
	TOTAL:								
1.1	LR Westside New	2	348.83	0	6	7	0.00%	-	-
4	Light Commercial	2	409.71	409.5	639851	1023762	38.80%	-	-
	Computed ROW			647.04			61.20%		

TOTALS		4	758.54	1056.54	639857	1023769	100.00%	100.00%	100.00%

SAS BASINS	C.3	11/20/2012	10:19 AM

Category	Land Use	Count	Acres	Clipped Acres	Winter Gal/Day (Adj)	Summer Gal/Day (Adj)	% of Area	% of Wnt	% of Smr
	EXISTING:								
0	No Use	0	0	0	0	0	0.00%	-	-
1.1	LR Westside New	0	0	0	0	0	0.00%	-	-
2	Medium Residential	0	0	0	0	0	0.00%	-	-
4	Light Commercial	0	0	0	0	0	0.00%	-	-
5	Heavy Commercial	0	0	0	0	0	0.00%	-	-
6	Light Industrial	0	0	0	0	0	0.00%	-	-
	Sub-Totals	0	0	0	0	0	0.00%	NaN%	NaN%
	FUTURE:								
0	No Use	0	0	0	0	0	0.00%	-	-
1.1	LR Westside New	3	670.3	299.96	449941	527931	59.10%	-	-
2	Medium Residential	1	119.64	119.02	223155	357047	23.40%	-	-
4	Light Commercial	1	8.1	0.02	35	57	0.00%	-	-
5	Heavy Commercial	2	25.6	24	75008	120013	4.70%	-	-
6	Light Industrial	1	42.9	0.37	1172	1875	0.10%	-	-
	Sub-Totals	8	866.54	443.37	749311	1006923	87.30%	100.00%	100.00%
	TOTAL:								
0	No Use	1	0	0	0	0	0.00%	-	-
1.1	LR Westside New	3	670.3	299.96	449941	527931	59.10%	-	-
2	Medium Residential	1	119.64	119.02	223155	357047	23.40%	-	-
4	Light Commercial	1	8.1	0.02	35	57	0.00%	-	-
5	Heavy Commercial	2	25.6	24	75008	120013	4.70%	-	-
6	Light Industrial	1	42.9	0.37	1172	1875	0.10%	-	-
	Computed ROW			64.42			12.70%		
TOTALS		9	866.54	507.79	749311	1006923	100.00%	100.00%	100.00%

SAS BASINS H.1 11/20/2012 10:27 AM

Category	Land Use	Count	Acres	Clipped Acres	Winter Gal/Day (Adj)	Summer Gal/Day (Adj)	% of Area	% of Wnt	% of Smr
	EXISTING:								
1.1	LR Westside New	0	0	0	0	0	0.00%	-	-
6	Light Industrial	0	0	0	0	0	0.00%	-	-
	Sub-Totals	0	0	0	0	0	0.00%	NaN%	NaN%
	FUTURE:								
1.1	LR Westside New	1	83.64	13.9	20846	24460	0.70%	-	-
6	Light Industrial	4	694.87	647.96	2024875	3239800	32.60%	-	-
	Sub-Totals	5	778.51	661.86	2045721	3264260	33.30%	100.00%	100.00%
	TOTAL:								
1.1	LR Westside New	1	83.64	13.9	20846	24460	0.70%	-	-
6	Light Industrial	4	694.87	647.96	2024875	3239800	32.60%	-	-
	Computed ROW			1324.66			66.70%		
TOTALS		5	778.51	1986.52	2045721	3264260	100.00%	100.00%	100.00%

SAS BASINS H.2 11/20/2012 10:28 AM

Category	Land Use	Count	Acres	Clipped Acres	Winter Gal/Day (Adj)	Summer Gal/Day (Adj)	% of Area	% of Wnt	% of Smr
	EXISTING:								
6	Light Industrial	0	0	0	0	0	0.00%	-	-
	Sub-Totals	0	0	0	0	0	0.00%	NaN%	NaN%
	FUTURE:								
6	Light Industrial	1	216.61	46.91	146598	234557	3.10%	-	-
	Sub-Totals	1	216.61	46.91	146598	234557	3.10%	100.00%	100.00%

	TOTAL:								
6	Light Industrial	1	216.61	46.91	146598	234557	3.10%	-	-
	Computed ROW			1470.88			96.90%		
TOTALS		1	216.61	1517.79	146598	234557	100.00%	100.00%	100.00%

SAS BASINS H.6 11/20/2012 10:30 AM

Category	Land Use	Count	Acres	Clipped Acres	Winter Gal/Day (Adj)	Summer Gal/Day (Adj)	% of Area	% of Wnt	% of Smr
	EXISTING:								
1.1	LR Westside New	0	0	0	0	0	0.00%	-	-
5	Heavy Commercial	0	0	0	0	0	0.00%	-	-
	Sub-Totals	0	0	0	0	0	0.00%	NaN%	NaN%
	FUTURE:								
1.1	LR Westside New	5	420.7	247.48	371227	435573	36.80%	-	-
5	Heavy Commercial	2	56.4	17.63	55109	88175	2.60%	-	-
	Sub-Totals	7	477.1	265.11	426336	523748	39.40%	100.00%	100.00%
	TOTAL:								
1.1	LR Westside New	5	420.7	247.48	371227	435573	36.80%	-	-
5	Heavy Commercial	2	56.4	17.63	55109	88175	2.60%	-	-
	Computed ROW			407.87			60.60%		
TOTALS		7	477.1	672.98	426336	523748	100.00%	100.00%	100.00%

SAS BASINS H.7 11/20/2012 10:30 AM

Category	Land Use	Count	Acres	Clipped Acres	Winter Gal/Day (Adj)	Summer Gal/Day (Adj)	% of Area	% of Wnt	% of Smr
	EXISTING:								
1.1	LR Westside New	0	0	0	0	0	0.00%	-	-
4	Light Commercial	0	0	0	0	0	0.00%	-	-
5	Heavy Commercial	0	0	0	0	0	0.00%	-	-

	Sub-Totals	0	0	0	0	0	0.00%	NaN%	NaN%
	FUTURE:								
1.1	LR Westside New	2	348.18	93.28	139914	164166	25.50%	-	-
4	Light Commercial	1	117.26	116.05	181334	290134	31.70%	-	-
5	Heavy Commercial	2	38.21	15.63	48844	78150	4.30%	-	-
	Sub-Totals	5	503.65	224.96	370092	532450	61.50%	100.00%	100.00%
	TOTAL:								
1.1	LR Westside New	2	348.18	93.28	139914	164166	25.50%	-	-
4	Light Commercial	1	117.26	116.05	181334	290134	31.70%	-	-
5	Heavy Commercial	2	38.21	15.63	48844	78150	4.30%	-	-
	Computed ROW			140.77			38.50%		
TOTALS		5	503.65	365.73	370092	532450	100.00%	100.00%	100.00%

SAS BASINS	H.9	11/20/2012	10:31 AM

Category	Land Use	Count	Acres	Clipped Acres	Winter Gal/Day (Adj)	Summer Gal/Day (Adj)	% of Area	% of Wnt	% of Smr
	EXISTING:								
1.1	LR Westside New	0	0	0	0	0	0.00%	-	-
5	Heavy Commercial	0	0	0	0	0	0.00%	-	-
	Sub-Totals	0	0	0	0	0	0.00%	NaN%	NaN%
	FUTURE:								
1.1	LR Westside New	5	530.21	435.26	652892	766060	65.30%	-	-
5	Heavy Commercial	2	37.77	18.53	57916	92666	2.80%	-	-
	Sub-Totals	7	567.98	453.79	710808	858726	68.10%	100.00%	100.00%
	TOTAL:								
1.1	LR Westside New	5	530.21	435.26	652892	766060	65.30%	-	-
5	Heavy Commercial	2	37.77	18.53	57916	92666	2.80%	-	-
	Computed ROW			212.53			31.90%		
TOTALS		7	567.98	666.32	710808	858726	100.00%	100.00%	100.00%

SAS BASINS H.11 11/20/2012 9:44 AM

Category	Land Use	Count	Acres	Clipped Acres	Winter Gal/Day (Adj)	Summer Gal/Day (Adj)	% of Area	% of Wnt	% of Smr
	EXISTING:								
1.1	LR Westside New	0	0	0	0	0	0.00%	-	-
5	Heavy Commercial	0	0	0	0	0	0.00%	-	-
	Sub-Totals	0	0	0	0	0	0.00%	NaN%	NaN%
	FUTURE:								
1.1	LR Westside New	3	590.26	49.49	74239	87108	60.20%	-	-
5	Heavy Commercial	2	24.68	16.85	52670	84272	20.50%	-	-
	Sub-Totals	5	614.94	66.34	126909	171380	80.80%	100.00%	100.00%
	TOTAL:								
1.1	LR Westside New	3	590.26	49.49	74239	87108	60.20%	-	-
5	Heavy Commercial	2	24.68	16.85	52670	84272	20.50%	-	-
	Computed ROW			15.81			19.20%		
TOTALS		5	614.94	82.15	126909	171380	100.00%	100.00%	100.00%

SAS BASINS H.12 12/5/2012 5:18 PM

Category	Land Use	Count	Acres	Clipped Acres	Winter Gal/Day (Adj)	Summer Gal/Day (Adj)	% of Area	% of Wnt	% of Smr
	EXISTING:								
4	Light Commercial	0	0	0	0	0	0.00%	-	-
	Sub-Totals	0	0	0	0	0	0.00%	NaN%	NaN%
	FUTURE:								
4	Light Commercial	2	171.64	54.36	84935	135896	13.10%	-	-
	Sub-Totals	2	171.64	54.36	84935	135896	13.10%	100.00%	100.00%

	TOTAL:								
4	Light Commercial	2	171.64	54.36	84935	135896	13.10%	-	-
	Computed ROW			359.59			86.90%		
TOTALS		2	171.64	413.95	84935	135896	100.00%	100.00%	100.00%

SAS BASINS K.1 11/20/2012 9:45 AM

Category	Land Use	Count	Acres	Clipped Acres	Winter Gal/Day (Adj)	Summer Gal/Day (Adj)	% of Area	% of Wnt	% of Smr
	EXISTING:								
0	No Use	0	0	0	0	0	0.00%	-	-
1.1	LR Westside New	0	0	0	0	0	0.00%	-	-
5	Heavy Commercial	0	0	0	0	0	0.00%	-	-
	Sub-Totals	0	0	0	0	0	0.00%	NaN%	NaN%
	FUTURE:								
0	No Use	0	0	0	0	0	0.00%	-	-
1.1	LR Westside New	3	1484.73	899	1348507	1582248	93.40%	-	-
5	Heavy Commercial	3	39.8	21.94	68564	109703	2.30%	-	-
	Sub-Totals	6	1524.53	920.94	1417071	1691951	95.70%	100.00%	100.00%
	TOTAL:								
0	No Use	1	0	0	0	0	0.00%	-	-
1.1	LR Westside New	3	1484.73	899	1348507	1582248	93.40%	-	-
5	Heavy Commercial	3	39.8	21.94	68564	109703	2.30%	-	-
	Computed ROW			41.37			4.30%		
TOTALS		7	1524.53	962.31	1417071	1691951	100.00%	100.00%	100.00%

SAS BASINS MDC 11/21/2012 1:23 PM

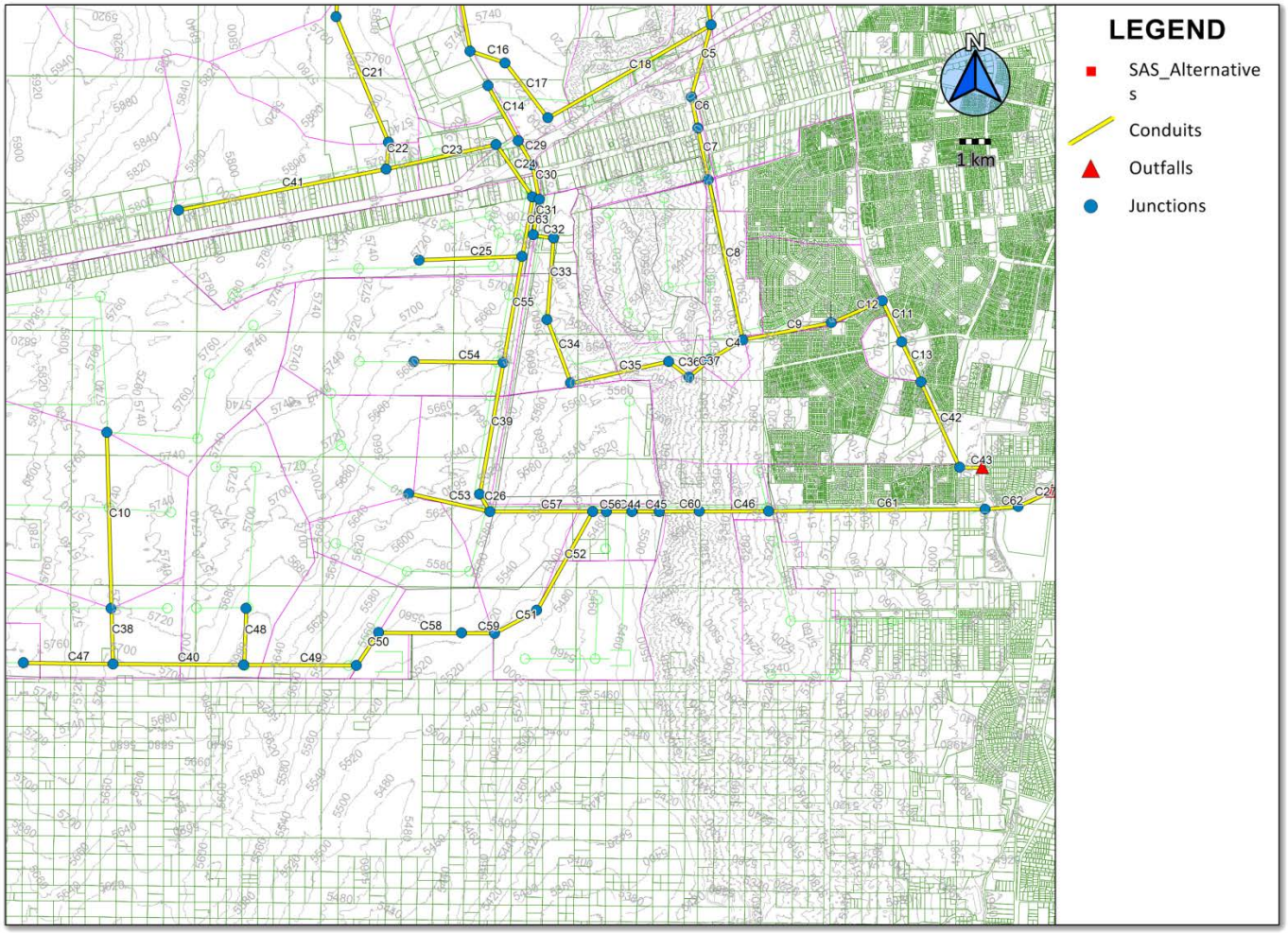
Category	Land Use	Count	Acres	Clipped Acres	Winter Gal/Day (Adj)	Summer Gal/Day (Adj)	% of Area	% of Wnt	% of Smr
	EXISTING:								

0	No Use	0	0	0	0	0	0.00%	0.00%	0.00%
9	Light Institutional	1	153.01	152.17	120287	196640	99.80%	100.00%	100.00%
	Sub-Totals	1	153.01	152.17	120287	196640	99.80%	100.00%	100.00%
	FUTURE:								
0	No Use	0	0	0	0	0	0.00%	NaN%	NaN%
9	Light Institutional	0	0	0	0	0	0.00%	NaN%	NaN%
	Sub-Totals	0	0	0	0	0	0.00%	NaN%	NaN%
	TOTAL:								
0	No Use	2	0	0	0	0	0.00%	0.00%	0.00%
9	Light Institutional	1	153.01	152.17	120287	196640	99.80%	100.00%	100.00%
	Computed ROW			0.37			0.20%		
TOTALS		3	153.01	152.54	120287	196640	100.00%	100.00%	100.00%

APPENDIX B

PCSWMM OUTPUT

PCSWMM OUTPUT - Ultimate Buildout



[ULTIMATE BUILDOUT]

[OPTIONS]
FLOW_UNITS CFS
INFILTRATION HORTON
FLOW_ROUTING DYNWAVE
START_DATE 08/01/2012
START_TIME 00:00:00
REPORT_START_DATE 08/01/2012
REPORT_START_TIME 00:00:00
END_DATE 08/04/2012
END_TIME 00:00:00
SWEEP_START 07/31
SWEEP_END 09/01
DRY_DAYS 0
REPORT_STEP 0:01:00
WET_STEP 0:05:00
DRY_STEP 0:05:00
ROUTING_STEP 5
ALLOW_PONDING NO
INERTIAL_DAMPING PARTIAL
VARIABLE_STEP 0.75
LENGTHENING_STEP 0
MIN_SURFAREA 0
NORMAL_FLOW_LIMITED BOTH
SKIP_STEADY_STATE NO
FORCE_MAIN_EQUATION H-W
LINK_OFFSETS DEPTH
MIN_SLOPE 0

[EVAPORATION]
;;Type Parameters
;;---------- ----------
CONSTANT 0.0
DRY_ONLY NO

[JUNCTIONS]
;; Invert Max. Init. Surcharge Ponded
;;Name Elev. Depth Depth Depth Area
;;---------- ---------- ---------- ---------- ---------- ----------
J1 5159.7 10.3 0 0 0
J2 5217.7 10.3 0 0 0
J3 5231.7 10.3 0 0 0
J4 5238.8 10.2 0 0 0
J5 5244.9 10.1 0 0 0
J6 5259 10 0 0 0
J7 5697 10 0 0 0
J8 5762 20 0 0 0
J9 5830 10 0 0 0
J10 5362.8 10.2 0 0 0
J11 5406.5 10.5 0 0 0
J12 5443 10 0 0 0
J14 5890 10 0 0 0
J15 5820 10 0 0 0
J16 5780 10 0 0 0
J13 5760 10 0 0 0
J18 5750 10 0 0 0
J19 5720 10 0 0 0
J20 5800 10 0 0 0
J21 5690 10 0 0 0
J22 5613 10 0 0 0
J23 5271 10 0 0 0
J24 5304 10 0 0 0
J25 5335 10 0 0 0
J26 5457 10 0 0 0
J27 5647 17.7 0 0 0
J29 5530 10 0 0 0
J30 5618 10 0 0 0
J31 5619.3 10.7 0 0 0

J32	5685	10	0	0	0
J33	5692	10	0	0	0
J34	5710	10	0	0	0
J17	5719.4	0	0	0	0
J36	5236	10	0	0	0
J39	5586	10	0	0	0
J48	5123.8	10.2	0	0	0
J35	5495	10	0	0	0
J37	5030	10	0	0	0
J38	5104.68	17.65	0	0	0
J40	5086	10	0	0	0
J28	5730	10	0	0	0
J41	5706	10	0	0	0
J42	5686	10	0	0	0
J43	5642	8	0	0	0
J44	5660	10	0	0	0
J45	5550	10	0	0	0
J46	5545	15	0	0	0
J47	5500	10	0	0	0
J49	5630	10	0	0	0
J50	5686	9	0	0	0
J51	5481.5	8.5	0	0	0
J52	5475	20	0	0	0
J53	5468	22	0	0	0
J54	5215	15	0	0	0
J55	5710	10	0	0	0
J56	5674.65	10	0	0	0
J57	5485	10	0	0	0
J58	5750	10	0	0	0
J59	5525	15	0	0	0
J60	5510	10	0	0	0
J61	5365	45	0	0	0
J62	4942.7	37.3	0	0	0
J63	4932.5	10	0	0	0

[OUTFALLS]

;;Name	Invert Elev.	Outfall Type	Stage/Table Time Series	Tide Gate
OF1	4920	FREE		NO
OF3	5010	FREE		NO

[CONDUITS]

;;Name	Inlet Node	Outlet Node	Manning Length	N	Inlet Offset	Outlet Offset	Init. Flow	Max. Flow
C1	J9	J8	7802.19	0.013	0	0	0	0
C2	J8	J7	7724.97	0.013	0	0	0	0
C3	J7	J6	6762.16	0.013	0	0	0	0
C5	J5	J4	3118.78	0.013	0	0	0	0
C6	J4	J36	1347.34	0.013	0	0	0	0
C7	J36	J3	2202.18	0.013	0	0	0	0
C8	J3	J2	6849.78	0.013	0	0	0	0
C9	J2	J1	3781.6	0.013	0	0	0	0
C12	J1	J48	2317.24	0.013	0	0	0	0
C11	J48	J38	1903.23	0.013	0	0	0	0
C16	J12	J11	1538.4	0.013	0	0	0	0
C17	J11	J10	2909.15	0.013	0	0	0	0
C18	J10	J5	7861.71	0.013	0	0	0	0
C19	J14	J15	6892.5	0.013	0	0	0	0
C20	J15	J16	8223.67	0.013	0	0	0	0
C22	J13	J18	1128.61	0.013	0	0	0	0
C21	J16	J13	5670.22	0.013	0	0	0	0
C23	J18	J19	4710	0.013	0	0	0	0
C24	J19	J21	2672.97	0.013	0	0	0	0
C26	J22	J39	841.74	0.013	0	0	0	0
C44	J51	J52	1062.14	0.013	0	0	0	0
C14	J17	J34	2637.63	0.013	0	0	0	0
C29	J34	J33	1148.74	0.013	0	0	0	0
C30	J33	J32	1475.83	0.013	0	0	0	0

C31	J32	J31	1512.88	0.013	0	0	0	0
C32	J31	J30	861.76	0.013	0	0	0	0
C33	J30	J29	3411.91	0.013	0	0	0	0
C34	J29	J26	2839.11	0.013	0	0	0	0
C35	J26	J25	4192.55	0.013	0	0	0	0
C36	J25	J24	1061.9	0.013	0	0	0	0
C37	J24	J23	1126.28	0.013	0	0	0	0
C39	J27	J22	5600.31	0.013	0	0	0	0
C25	J55	J56	4303.65	0.013	0	1.25	0	0
C41	J20	J18	8853.19	0.013	0	0	0	0
C4	J23	J2	1619.82	0.013	0	0	0	0
C15	J6	J5	6578.59	0.013	0	0	0	0
C28	J35	J12	4708.89	0.013	0	0	0	0
C13	J38	J40	1863.34	0.013	0	0	0	0
C43	J37	OF3	948.84	0.013	0	0	0	0
C42	J40	J37	3922.08	0.013	0	0	0	0
C45	J52	J53	1143.18	0.013	0	0	0	0
C61	J54	J62	9073.37	0.013	0	0.5	0	0
C62	J62	J63	1370.83	0.013	0	0	0	0
C10	J28	J41	7362.39	0.013	0	0	0	0
C38	J41	J42	2337.77	0.013	0	0	0	0
C40	J42	J43	5474.93	0.013	0	0	0	0
C48	J44	J43	2372.31	0.013	0	1	0	0
C49	J43	J45	4719.53	0.013	0	0.25	0	0
C50	J45	J46	1646.05	0.013	0	0	0	0
C59	J59	J60	1376.32	0.013	0	0	0	0
C52	J47	J57	4752.5	0.013	0	0	0	0
C53	J49	J39	3465.64	0.013	0	0	0	0
C54	J50	J27	3732.18	0.013	0	1.5	0	0
C63	J21	J56	2520.77	0.013	0	0	0	0
C55	J56	J27	4513.74	0.013	0	0	0	0
C57	J39	J57	4310.11	0.013	0	0	0	0
C56	J57	J51	582.07	0.013	0	0	0	0
C47	J58	J42	3755.34	0.013	0	1.33	0	0
C58	J46	J59	3479.46	0.013	0	0	0	0
C60	J53	J61	1676.44	0.013	0	0	0	0
C51	J60	J47	2011.02	0.013	0	0	0	0
C46	J61	J54	2894.26	0.013	0	0	0	0
C27	J63	OF1	1567.44	0.013	0	0	0	0

[XSECTIONS]

;;Link	Shape	Geom1	Geom2	Geom3	Geom4	Barrels
;;----------	----------	----------	----------	----------	----------	----------
C1	CIRCULAR	1	0	0	0	1
C2	CIRCULAR	1	0	0	0	1
C3	CIRCULAR	1.25	0	0	0	1
C5	CIRCULAR	2.5	0	0	0	1
C6	CIRCULAR	2.5	0	0	0	1
C7	CIRCULAR	2.5	0	0	0	1
C8	CIRCULAR	2.5	0	0	0	1
C9	CIRCULAR	2	0	0	0	1
C12	CIRCULAR	2	0	0	0	1
C11	CIRCULAR	2.25	0	0	0	1
C16	CIRCULAR	1	0	0	0	1
C17	CIRCULAR	1.25	0	0	0	1
C18	CIRCULAR	1.5	0	0	0	1
C19	CIRCULAR	1.25	0	0	0	1
C20	CIRCULAR	1.25	0	0	0	1
C22	CIRCULAR	2	0	0	0	1
C21	CIRCULAR	2	0	0	0	1
C23	CIRCULAR	2.25	0	0	0	1
C24	CIRCULAR	2.25	0	0	0	1
C26	CIRCULAR	2.25	0	0	0	1
C44	CIRCULAR	3.25	0	0	0	1
C14	CIRCULAR	1.5	0	0	0	1
C29	CIRCULAR	2	0	0	0	1
C30	CIRCULAR	2	0	0	0	1
C31	CIRCULAR	2	0	0	0	1
C32	CIRCULAR	2	0	0	0	1
C33	CIRCULAR	1.25	0	0	0	1

C34	CIRCULAR	1.25	0	0	0	1
C35	CIRCULAR	1.5	0	0	0	1
C36	CIRCULAR	1.5	0	0	0	1
C37	CIRCULAR	1.5	0	0	0	1
C39	CIRCULAR	2.5	0	0	0	1
C25	CIRCULAR	1.25	0	0	0	1
C41	CIRCULAR	1.5	0	0	0	1
C4	CIRCULAR	1.5	0	0	0	1
C15	CIRCULAR	1.75	0	0	0	1
C28	CIRCULAR	1	0	0	0	1
C13	CIRCULAR	2.25	0	0	0	1
C43	CIRCULAR	3	0	0	0	1
C42	CIRCULAR	2.25	0	0	0	1
C45	CIRCULAR	3.25	0	0	0	1
C61	CIRCULAR	2.5	0	0	0	1
C62	CIRCULAR	3	0	0	0	1
C10	CIRCULAR	1.75	0	0	0	1
C38	CIRCULAR	2	0	0	0	1
C40	CIRCULAR	2	0	0	0	1
C48	CIRCULAR	1.25	0	0	0	1
C49	CIRCULAR	2.25	0	0	0	1
C50	CIRCULAR	2.5	0	0	0	1
C59	CIRCULAR	2.5	0	0	0	1
C52	CIRCULAR	2.75	0	0	0	1
C53	CIRCULAR	1	0	0	0	1
C54	CIRCULAR	1	0	0	0	1
C63	CIRCULAR	2.25	0	0	0	1
C55	CIRCULAR	2.25	0	0	0	1
C57	CIRCULAR	2.5	0	0	0	1
C56	CIRCULAR	3.25	0	0	0	1
C47	CIRCULAR	0.67	0	0	0	1
C58	CIRCULAR	2.5	0	0	0	1
C60	CIRCULAR	2.25	0	0	0	1
C51	CIRCULAR	2.5	0	0	0	1
C46	CIRCULAR	2.25	0	0	0	1
C27	CIRCULAR	3	0	0	0	1

[LOSSES]

;;Link	Inlet	Outlet	Average	Flap Gate
;;----------	----------	----------	----------	----------

[INFLOWS]

;;Node	Parameter	Time Series	Param Type	Units	Scale Factor	Baseline Factor	Baseline Value	Pattern
;;----------	----------	----------	---------	---------	---------	---------	---------	
J2	Flow	BasinC.6	FLOW		1.0	1	0	
J3	Flow	BasinC.4	FLOW		1.0	1	0	
J5	Flow	Basin5.2	FLOW		1.0	1	0	
J7	Flow	Basin5.4	FLOW		1.0	1	0	
J9	Flow	BasinE.3	FLOW		1.0	1	0	
J10	Flow	Basin5.3	FLOW		1.0	1	0	
J12	Flow	Basin5.6.S	FLOW		1.0	1	0	
J14	Flow	BasinE.2.3	FLOW		1.0	1	0	
J16	Flow	BasinE.2.2	FLOW		1.0	1	0	
J13	Flow	BasinE.2.1	FLOW		1.0	1	0	
J18	Flow	BasinE.1.1	FLOW		1.0	1	0	
J20	Flow	BasinE.1.2	FLOW		1.0	1	0	
J22	Flow	BasinH.7	FLOW		1.0	1	0	
J23	Flow	BasinC.7	FLOW		1.0	1	0	
J29	Flow	BasinC.3	FLOW		1.0	1	0	
J34	Flow	Basin5.5	FLOW		1.0	1	0	
J17	Flow	Basin5.6.S	FLOW		1.0	1	0	
J48	Flow	BasinF.2	FLOW		1.0	1	0	
J35	Flow	Basin5.6.N	FLOW		1.0	1	0	
J38	Flow	BasinG.2	FLOW		1.0	1	0	
J40	Flow	BasinG.1	FLOW		1.0	1	0	
J28	Flow	BasinH.1	FLOW		1.0	1	0	
J41	Flow	BasinH.2	FLOW		1.0	1	0	
J42	Flow	BasinH.3	FLOW		1.0	1	0	
J44	Flow	BasinH.4	FLOW		1.0	1	0	

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J45          Flow          BasinH.5       FLOW    1.0     1       0
J47          Flow          BasinH.12      FLOW    1.0     1       0
J49          Flow          BasinH.6       FLOW    1.0     1       0
J50          Flow          BasinC.1       FLOW    1.0     1       0
J51          Flow          BasinH.10      FLOW    1.0     1       0
J52          Flow          BasinJ.1       FLOW    1.0     1       0
J53          Flow          BasinH.9       FLOW    1.0     1       0
J54          Flow          BasinH.11      FLOW    1.0     1       0
J55          Flow          BasinC.2       FLOW    1.0     1       0
J58          Flow          Basin.MDC      FLOW    1.0     1       0
J59          Flow          BasinH.8       FLOW    1.0     1       0

[TIMESERIES]
;;Name          Date       Time       Value
;;-------------- ---------- ---------- ----------
Basin4.A        FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin 4.A.dat"

Basin2.A        FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin 2A.dat"

Basin2.B        FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin 2B.dat"

Basin1          FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin 1.dat"

Basin3          FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin 3.dat"

Basin4.B        FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin 4.B.dat"

Basin5.1        FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin 5.1.dat"

Basin5.2        FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin5.2.dat"

Basin5.3        FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin5.3.dat"

Basin5.4        FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin 5.4.dat"

Basin5.5        FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin 5.5.dat"

Basin5.6.N      FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin 5.6.N.dat"

Basin5.6.S      FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin 5.6.S.dat"

BasinC.4        FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin C.4.dat"

BasinC.5        FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin C.5.dat"

BasinC.6        FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin C.6.dat"

BasinE.1.1      FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin E.1.1.dat"

BasinE.1.2      FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin E.1.2.dat"

BasinE.2.1      FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin E.2.1.dat"

BasinE.2.2      FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin E.2.2.dat"

BasinE.2.3      FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin E.2.3.dat"

BasinE.3        FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin E.3.dat"

BasinF.1        FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin F.1.dat"

BasinF.2        FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin F.2.dat"

BasinG.1        FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin G.1.dat"

BasinG.2        FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin G.2.dat"

BasinC.1        FILE "P:\20120256\CDP\Reports\SAS Analysis\PCSWMM Model\Daily Flow Curve dat Files\Ultimate Buildout\Basin C.1.dat"

BasinC.2        FILE "P:\20120256\CDP\Reports\SAS Analysis\PCSWMM Model\Daily Flow Curve dat Files\Ultimate Buildout\Basin C.2.dat"
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BasinC.3        FILE "P:\20120256\CDP\Reports\SAS Analysis\PCSWMM Model\Daily Flow Curve dat Files\Ultimate Buildout\Basin C.3.dat"

BasinC.7        FILE "P:\20120256\CDP\Reports\SAS Analysis\PCSWMM Model\Daily Flow Curve dat Files\Ultimate Buildout\Basin C.7.dat"

BasinH.1        FILE "P:\20120256\CDP\Reports\SAS Analysis\PCSWMM Model\Daily Flow Curve dat Files\Ultimate Buildout\Basin H.1.dat"

BasinH.2        FILE "P:\20120256\CDP\Reports\SAS Analysis\PCSWMM Model\Daily Flow Curve dat Files\Ultimate Buildout\Basin H.2.dat"

BasinH.3        FILE "P:\20120256\CDP\Reports\SAS Analysis\PCSWMM Model\Daily Flow Curve dat Files\Ultimate Buildout\Basin H.3.dat"

BasinH.4        FILE "P:\20120256\CDP\Reports\SAS Analysis\PCSWMM Model\Daily Flow Curve dat Files\Ultimate Buildout\Basin H.4.dat"

BasinH.5        FILE "P:\20120256\CDP\Reports\SAS Analysis\PCSWMM Model\Daily Flow Curve dat Files\Ultimate Buildout\Basin H.5.dat"

BasinH.6        FILE "P:\20120256\CDP\Reports\SAS Analysis\PCSWMM Model\Daily Flow Curve dat Files\Ultimate Buildout\Basin H.6.dat"

BasinH.7        FILE "P:\20120256\CDP\Reports\SAS Analysis\PCSWMM Model\Daily Flow Curve dat Files\Ultimate Buildout\Basin H.7.dat"

BasinH.8        FILE "P:\20120256\CDP\Reports\SAS Analysis\PCSWMM Model\Daily Flow Curve dat Files\Ultimate Buildout\Basin H.8.dat"

BasinH.9        FILE "P:\20120256\CDP\Reports\SAS Analysis\PCSWMM Model\Daily Flow Curve dat Files\Ultimate Buildout\Basin H.9.dat"

BasinH.10       FILE "P:\20120256\CDP\Reports\SAS Analysis\PCSWMM Model\Daily Flow Curve dat Files\Ultimate Buildout\Basin
H.10.dat"

BasinH.11       FILE "P:\20120256\CDP\Reports\SAS Analysis\PCSWMM Model\Daily Flow Curve dat Files\Ultimate Buildout\Basin H.11.dat"

BasinK.1        FILE "P:\20120256\CDP\Reports\SAS Analysis\PCSWMM Model\Daily Flow Curve dat Files\Ultimate Buildout\Basin K.1.dat"

Basin.MDC       FILE "P:\20120256\CDP\Reports\SAS Analysis\PCSWMM Model\Daily Flow Curve dat Files\Ultimate Buildout\Basin MDC.dat"

BasinH.12       FILE "P:\20120256\CDP\Reports\SAS Analysis\PCSWMM Model\Daily Flow Curve dat Files\Ultimate Buildout\Basin H.12.dat"

BasinJ.1        FILE "P:\20120256\CDP\Reports\SAS Analysis\PCSWMM Model\Daily Flow Curve dat Files\Ultimate Buildout\Basin J.1.dat"

BasinJ.2        FILE "P:\20120256\CDP\Reports\SAS Analysis\PCSWMM Model\Daily Flow Curve dat Files\Ultimate Buildout\Basin J.2.dat"


[REPORT]
INPUT     YES
CONTROLS   NO
SUBCATCHMENTS ALL
NODES ALL
LINKS ALL

[TAGS]

[MAP]
DIMENSIONS      1456220.70864303 1455857.39441784 1503590.18092442 1502465.20189638
UNITS           Feet

[COORDINATES]
;;Node          X-Coord         Y-Coord
;;-------------- ---------------- ----------------
J1              1492194.842     1472310.146
J2              1488482.412     1471590.193
J3              1487053.246     1478289.22
J4              1486329.253     1481764.1
J5              1487156.132     1484771.265
J6              1486234.944     1491285.039
J7              1479592.964     1492554.258
J8              1479451.073     1500277.926
J9              1471649.188     1500346.665
J10             1480324.86      1480880.216
J11             1478541.639     1483178.749
J12             1477085.404     1483674.793
J14             1464836.906     1493835.74
J15             1471710.452     1493324.869
J16             1471478.237     1485104.48
```

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J13          1473651.63      1479867.33
J18          1473568.167      1478741.806
J19          1478166.011      1479763.549
J20          1464883.349      1477023.42
J21          1479691.655      1477568.739
J22          1477473.078      1465130.229
J23          1487089.885      1470762.732
J24          1486227.876      1470037.861
J25          1485385.457      1470684.368
J26          1481290.913      1469783.176
J27          1478459.351      1470643.011
J29          1480297.401      1472442.777
J30          1480565.317      1475844.152
J31          1479714.974      1475983.934
J32          1479971.242      1477474.948
J33          1479668.379      1478919.367
J34          1479098.333      1479916.69
J17          1477818.019      1482222.741
J36          1486609.645      1480446.258
J39          1477899.219      1464404.329
J48          1494321.738      1473229.89
J35          1476228.269      1488305.013
J37          1497564.222      1466258.721
J38          1495139.57      1471511.335
J40          1495940.261      1469828.801
J28          1461872.883      1467724.581
J41          1462062.082      1460364.619
J42          1462128.848      1458027.803
J43          1467603.674      1457994.42
J44          1467703.823      1460364.619
J45          1472323.163      1457975.931
J46          1473243.866      1459340.4
J47          1479868.051      1460268.729
J49          1474516.206      1465156.59
J50          1474727.392      1470683.589
J51          1482791.389      1464407.419
J52          1483853.526      1464409.918
J53          1484996.705      1464412.606
J54          1489567.396      1464423.358
J55          1474948.35      1474927.31
J56          1479249.027      1475087.137
J57          1482209.326      1464404.506
J58          1458373.866      1458079.669
J59          1476723.286      1459324.656
J60          1478099.538      1459311.365
J61          1486673.14      1464416.55
J62          1498640.397      1464505.692
J63          1500006.207      1464622.844
OF1           1501437.023      1465262.862
OF3           1498513.043      1466253.511

[VERTICES]
;;Link          X-Coord          Y-Coord
;;-------------- ---------------- ----------------


EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.022)
  --------------------------------------------------------------


  ***********************************************************
  NOTE: The summary statistics displayed in this report are
  based on results found at every computational time step,
  not just on results from each reporting time step.
  ***********************************************************

  ****************
  Analysis Options
  ****************
```

Flow Units ..... CFS
Process Models:
  Rainfall/Runoff ..... NO
  Snowmelt ..... NO
  Groundwater ..... NO
  Flow Routing ..... YES
  Ponding Allowed ..... NO
  Water Quality ..... NO
Flow Routing Method ..... DYNWAVE
Starting Date AUG-01-2012 00:00:00
Ending Date AUG-04-2012 00:00:00
Antecedent Dry Days 0.0
Report Time Step 00:01:00
Routing Time Step ..... 5.00 sec

****
Element Count
****
Number of rain gages 0
Number of subcatchments ... 0
Number of nodes 65
Number of links 63
Number of pollutants 0
Number of land uses 0

****
Node Summary
****

Name	Type	Invert Elev.	Max. Depth	Ponded Area	External Inflow
J1	JUNCTION	5159.70	10.30	0.0	
J2	JUNCTION	5217.70	10.30	0.0	Yes
J3	JUNCTION	5231.70	10.30	0.0	Yes
J4	JUNCTION	5238.80	10.20	0.0	
J5	JUNCTION	5244.90	10.10	0.0	Yes
J6	JUNCTION	5259.00	10.00	0.0	
J7	JUNCTION	5697.00	10.00	0.0	Yes
J8	JUNCTION	5762.00	20.00	0.0	
J9	JUNCTION	5830.00	10.00	0.0	Yes
J10	JUNCTION	5362.80	10.20	0.0	Yes
J11	JUNCTION	5406.50	10.50	0.0	
J12	JUNCTION	5443.00	10.00	0.0	Yes
J14	JUNCTION	5890.00	10.00	0.0	Yes
J15	JUNCTION	5820.00	10.00	0.0	
J16	JUNCTION	5780.00	10.00	0.0	Yes
J13	JUNCTION	5760.00	10.00	0.0	Yes
J18	JUNCTION	5750.00	10.00	0.0	Yes
J19	JUNCTION	5720.00	10.00	0.0	
J20	JUNCTION	5800.00	10.00	0.0	Yes
J21	JUNCTION	5690.00	10.00	0.0	
J22	JUNCTION	5613.00	10.00	0.0	Yes
J23	JUNCTION	5271.00	10.00	0.0	Yes
J24	JUNCTION	5304.00	10.00	0.0	
J25	JUNCTION	5335.00	10.00	0.0	
J26	JUNCTION	5457.00	10.00	0.0	
J27	JUNCTION	5647.00	17.70	0.0	
J29	JUNCTION	5530.00	10.00	0.0	Yes
J30	JUNCTION	5618.00	10.00	0.0	
J31	JUNCTION	5619.30	10.70	0.0	
J32	JUNCTION	5685.00	10.00	0.0	
J33	JUNCTION	5692.00	10.00	0.0	
J34	JUNCTION	5710.00	10.00	0.0	Yes
J17	JUNCTION	5719.40	1.50	0.0	Yes
J36	JUNCTION	5236.00	10.00	0.0	
J39	JUNCTION	5586.00	10.00	0.0	
J48	JUNCTION	5123.80	10.20	0.0	Yes
J35	JUNCTION	5495.00	10.00	0.0	Yes

J37	JUNCTION	5030.00	10.00	0.0	
J38	JUNCTION	5104.68	17.65	0.0	Yes
J40	JUNCTION	5086.00	10.00	0.0	Yes
J28	JUNCTION	5730.00	10.00	0.0	Yes
J41	JUNCTION	5706.00	10.00	0.0	Yes
J42	JUNCTION	5686.00	10.00	0.0	Yes
J43	JUNCTION	5642.00	8.00	0.0	
J44	JUNCTION	5660.00	10.00	0.0	Yes
J45	JUNCTION	5550.00	10.00	0.0	Yes
J46	JUNCTION	5545.00	15.00	0.0	
J47	JUNCTION	5500.00	10.00	0.0	Yes
J49	JUNCTION	5630.00	10.00	0.0	Yes
J50	JUNCTION	5686.00	9.00	0.0	Yes
J51	JUNCTION	5481.50	8.50	0.0	Yes
J52	JUNCTION	5475.00	20.00	0.0	Yes
J53	JUNCTION	5468.00	22.00	0.0	Yes
J54	JUNCTION	5215.00	15.00	0.0	Yes
J55	JUNCTION	5710.00	10.00	0.0	Yes
J56	JUNCTION	5674.65	10.00	0.0	
J57	JUNCTION	5485.00	10.00	0.0	
J58	JUNCTION	5750.00	10.00	0.0	Yes
J59	JUNCTION	5525.00	15.00	0.0	Yes
J60	JUNCTION	5510.00	10.00	0.0	
J61	JUNCTION	5365.00	45.00	0.0	
J62	JUNCTION	4942.70	37.30	0.0	
J63	JUNCTION	4932.50	10.00	0.0	
OF1	OUTFALL	4920.00	3.00	0.0	
OF3	OUTFALL	5010.00	3.00	0.0	

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Link Summary
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Name	From Node	To Node	Type	Length	%Slope	Roughness
C1	J9	J8	CONDUIT	7802.2	0.8716	0.0130
C2	J8	J7	CONDUIT	7725.0	0.8415	0.0130
C3	J7	J6	CONDUIT	6762.2	6.4909	0.0130
C5	J5	J4	CONDUIT	3118.8	0.1956	0.0130
C6	J4	J36	CONDUIT	1347.3	0.2078	0.0130
C7	J36	J3	CONDUIT	2202.2	0.1953	0.0130
C8	J3	J2	CONDUIT	6849.8	0.2044	0.0130
C9	J2	J1	CONDUIT	3781.6	1.5339	0.0130
C12	J1	J48	CONDUIT	2317.2	1.5494	0.0130
C11	J48	J38	CONDUIT	1903.2	1.0047	0.0130
C16	J12	J11	CONDUIT	1538.4	2.3733	0.0130
C17	J11	J10	CONDUIT	2909.2	1.5023	0.0130
C18	J10	J5	CONDUIT	7861.7	1.4998	0.0130
C19	J14	J15	CONDUIT	6892.5	1.0156	0.0130
C20	J15	J16	CONDUIT	8223.7	0.4864	0.0130
C22	J13	J18	CONDUIT	1128.6	0.8861	0.0130
C21	J16	J13	CONDUIT	5670.2	0.3527	0.0130
C23	J18	J19	CONDUIT	4710.0	0.6370	0.0130
C24	J19	J21	CONDUIT	2673.0	1.1224	0.0130
C26	J22	J39	CONDUIT	841.7	3.2093	0.0130
C44	J51	J52	CONDUIT	1062.1	0.6120	0.0130
C14	J17	J34	CONDUIT	2637.6	0.3564	0.0130
C29	J34	J33	CONDUIT	1148.7	1.5671	0.0130
C30	J33	J32	CONDUIT	1475.8	0.4743	0.0130
C31	J32	J31	CONDUIT	1512.9	4.3468	0.0130
C32	J31	J30	CONDUIT	861.8	0.1509	0.0130
C33	J30	J29	CONDUIT	3411.9	2.5801	0.0130
C34	J29	J26	CONDUIT	2839.1	2.5721	0.0130
C35	J26	J25	CONDUIT	4192.6	2.9112	0.0130
C36	J25	J24	CONDUIT	1061.9	2.9205	0.0130
C37	J24	J23	CONDUIT	1126.3	2.9313	0.0130
C39	J27	J22	CONDUIT	5600.3	0.6071	0.0130
C25	J55	J56	CONDUIT	4303.6	0.7924	0.0130
C41	J20	J18	CONDUIT	8853.2	0.5648	0.0130
C4	J23	J2	CONDUIT	1619.8	3.2923	0.0130

C15	J6	J5	CONDUIT	6578.6	0.2143	0.0130
C28	J35	J12	CONDUIT	4708.9	1.1044	0.0130
C13	J38	J40	CONDUIT	1863.3	1.0026	0.0130
C43	J37	OF3	CONDUIT	948.8	2.1083	0.0130
C42	J40	J37	CONDUIT	3922.1	1.4280	0.0130
C45	J52	J53	CONDUIT	1143.2	0.6123	0.0130
C61	J54	J62	CONDUIT	9073.4	2.9969	0.0130
C62	J62	J63	CONDUIT	1370.8	0.7441	0.0130
C10	J28	J41	CONDUIT	7362.4	0.3260	0.0130
C38	J41	J42	CONDUIT	2337.8	0.8555	0.0130
C40	J42	J43	CONDUIT	5474.9	0.8037	0.0130
C48	J44	J43	CONDUIT	2372.3	0.7166	0.0130
C49	J43	J45	CONDUIT	4719.5	1.9444	0.0130
C50	J45	J46	CONDUIT	1646.1	0.3038	0.0130
C59	J59	J60	CONDUIT	1376.3	1.0899	0.0130
C52	J47	J57	CONDUIT	4752.5	0.3156	0.0130
C53	J49	J39	CONDUIT	3465.6	1.2697	0.0130
C54	J50	J27	CONDUIT	3732.2	1.0048	0.0130
C63	J21	J56	CONDUIT	2520.8	0.6090	0.0130
C55	J56	J27	CONDUIT	4513.7	0.6126	0.0130
C57	J39	J57	CONDUIT	4310.1	2.3440	0.0130
C56	J57	J51	CONDUIT	582.1	0.6013	0.0130
C47	J58	J42	CONDUIT	3755.3	1.6691	0.0130
C58	J46	J59	CONDUIT	3479.5	0.5748	0.0130
C60	J53	J61	CONDUIT	1676.4	6.1556	0.0130
C51	J60	J47	CONDUIT	2011.0	0.4973	0.0130
C46	J61	J54	CONDUIT	2894.3	5.1896	0.0130
C27	J63	OF1	CONDUIT	1567.4	0.7975	0.0130

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Cross Section Summary
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Conduit	Shape	Full Depth	Full Area	Hyd. Rad.	Max. Width	No. of Barrels	Full Flow
C1	CIRCULAR	1.00	0.79	0.25	1.00	1	3.33
C2	CIRCULAR	1.00	0.79	0.25	1.00	1	3.27
C3	CIRCULAR	1.25	1.23	0.31	1.25	1	16.46
C5	CIRCULAR	2.50	4.91	0.63	2.50	1	18.14
C6	CIRCULAR	2.50	4.91	0.63	2.50	1	18.70
C7	CIRCULAR	2.50	4.91	0.63	2.50	1	18.12
C8	CIRCULAR	2.50	4.91	0.63	2.50	1	18.54
C9	CIRCULAR	2.00	3.14	0.50	2.00	1	28.02
C12	CIRCULAR	2.00	3.14	0.50	2.00	1	28.16
C11	CIRCULAR	2.25	3.98	0.56	2.25	1	31.04
C16	CIRCULAR	1.00	0.79	0.25	1.00	1	5.49
C17	CIRCULAR	1.25	1.23	0.31	1.25	1	7.92
C18	CIRCULAR	1.50	1.77	0.38	1.50	1	12.86
C19	CIRCULAR	1.25	1.23	0.31	1.25	1	6.51
C20	CIRCULAR	1.25	1.23	0.31	1.25	1	4.51
C22	CIRCULAR	2.00	3.14	0.50	2.00	1	21.29
C21	CIRCULAR	2.00	3.14	0.50	2.00	1	13.44
C23	CIRCULAR	2.25	3.98	0.56	2.25	1	24.72
C24	CIRCULAR	2.25	3.98	0.56	2.25	1	32.81
C26	CIRCULAR	2.25	3.98	0.56	2.25	1	55.48
C44	CIRCULAR	3.25	8.30	0.81	3.25	1	64.59
C14	CIRCULAR	1.50	1.77	0.38	1.50	1	6.27
C29	CIRCULAR	2.00	3.14	0.50	2.00	1	28.32
C30	CIRCULAR	2.00	3.14	0.50	2.00	1	15.58
C31	CIRCULAR	2.00	3.14	0.50	2.00	1	47.17
C32	CIRCULAR	2.00	3.14	0.50	2.00	1	8.79
C33	CIRCULAR	1.25	1.23	0.31	1.25	1	10.38
C34	CIRCULAR	1.25	1.23	0.31	1.25	1	10.36
C35	CIRCULAR	1.50	1.77	0.38	1.50	1	17.92
C36	CIRCULAR	1.50	1.77	0.38	1.50	1	17.95
C37	CIRCULAR	1.50	1.77	0.38	1.50	1	17.98
C39	CIRCULAR	2.50	4.91	0.63	2.50	1	31.96
C25	CIRCULAR	1.25	1.23	0.31	1.25	1	5.75
C41	CIRCULAR	1.50	1.77	0.38	1.50	1	7.89

C4	CIRCULAR	1.50	1.77	0.38	1.50	1	19.06
C15	CIRCULAR	1.75	2.41	0.44	1.75	1	7.34
C28	CIRCULAR	1.00	0.79	0.25	1.00	1	3.74
C13	CIRCULAR	2.25	3.98	0.56	2.25	1	31.01
C43	CIRCULAR	3.00	7.07	0.75	3.00	1	96.85
C42	CIRCULAR	2.25	3.98	0.56	2.25	1	37.01
C45	CIRCULAR	3.25	8.30	0.81	3.25	1	64.61
C61	CIRCULAR	2.50	4.91	0.63	2.50	1	71.01
C62	CIRCULAR	3.00	7.07	0.75	3.00	1	57.53
C10	CIRCULAR	1.75	2.41	0.44	1.75	1	9.05
C38	CIRCULAR	2.00	3.14	0.50	2.00	1	20.92
C40	CIRCULAR	2.00	3.14	0.50	2.00	1	20.28
C48	CIRCULAR	1.25	1.23	0.31	1.25	1	5.47
C49	CIRCULAR	2.25	3.98	0.56	2.25	1	43.19
C50	CIRCULAR	2.50	4.91	0.63	2.50	1	22.61
C59	CIRCULAR	2.50	4.91	0.63	2.50	1	42.82
C52	CIRCULAR	2.75	5.94	0.69	2.75	1	29.71
C53	CIRCULAR	1.00	0.79	0.25	1.00	1	4.01
C54	CIRCULAR	1.00	0.79	0.25	1.00	1	3.57
C63	CIRCULAR	2.25	3.98	0.56	2.25	1	24.17
C55	CIRCULAR	2.25	3.98	0.56	2.25	1	24.24
C57	CIRCULAR	2.50	4.91	0.63	2.50	1	62.80
C56	CIRCULAR	3.25	8.30	0.81	3.25	1	64.03
C47	CIRCULAR	0.67	0.35	0.17	0.67	1	1.58
C58	CIRCULAR	2.50	4.91	0.63	2.50	1	31.10
C60	CIRCULAR	2.25	3.98	0.56	2.25	1	76.84
C51	CIRCULAR	2.50	4.91	0.63	2.50	1	28.92
C46	CIRCULAR	2.25	3.98	0.56	2.25	1	70.55
C27	CIRCULAR	3.00	7.07	0.75	3.00	1	59.56

********** Flow Routing Continuity **********	Volume acre-feet ---	Volume 10^6 gal ---
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	0.000	0.000
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	380.877	124.115
External Outflow	377.521	123.021
Internal Outflow	0.000	0.000
Storage Losses	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	3.434	1.119
Continuity Error (%)	-0.020	

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Time-Step Critical Elements
****
None

****
Highest Flow Instability Indexes
****
All links are stable.

****
Routing Time Step Summary
****
Minimum Time Step : 5.00 sec
Average Time Step : 5.00 sec
Maximum Time Step : 5.00 sec
Percent in Steady State : 0.00
Average Iterations per Step : 2.00

****
Node Depth Summary
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Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days	hr:min
J1	JUNCTION	1.13	1.46	5161.16	1	08:25
J2	JUNCTION	1.14	1.46	5219.16	1	08:20
J3	JUNCTION	1.67	2.33	5234.03	2	08:16
J4	JUNCTION	1.36	1.78	5240.58	1	07:33
J5	JUNCTION	1.41	1.86	5246.76	1	07:19
J6	JUNCTION	1.07	1.44	5260.44	1	07:30
J7	JUNCTION	0.47	0.59	5697.59	0	07:05
J8	JUNCTION	0.50	0.69	5762.69	0	07:22
J9	JUNCTION	0.49	0.67	5830.67	1	07:01
J10	JUNCTION	0.67	0.86	5363.66	2	07:01
J11	JUNCTION	0.55	0.71	5407.21	2	06:23
J12	JUNCTION	0.55	0.74	5443.74	0	06:16
J14	JUNCTION	0.42	0.67	5890.67	1	09:17
J15	JUNCTION	0.52	0.85	5820.85	1	10:01
J16	JUNCTION	1.10	1.55	5781.55	1	10:13
J13	JUNCTION	0.91	1.18	5761.18	1	10:12
J18	JUNCTION	1.22	1.56	5751.56	1	10:10
J19	JUNCTION	0.99	1.24	5721.24	1	10:16
J20	JUNCTION	0.50	0.67	5800.67	1	07:03
J21	JUNCTION	1.19	1.52	5691.52	1	10:21
J22	JUNCTION	0.88	1.13	5614.13	2	10:30
J23	JUNCTION	0.50	0.62	5271.62	1	06:53
J24	JUNCTION	0.46	0.56	5304.56	0	06:49
J25	JUNCTION	0.46	0.56	5335.56	0	06:47
J26	JUNCTION	0.46	0.56	5457.56	0	06:43
J27	JUNCTION	1.44	1.92	5648.92	2	10:28
J29	JUNCTION	0.53	0.66	5530.66	0	06:37
J30	JUNCTION	0.42	0.53	5618.53	1	06:30
J31	JUNCTION	0.82	1.02	5620.32	0	06:25
J32	JUNCTION	0.32	0.39	5685.39	2	06:18
J33	JUNCTION	0.60	0.74	5692.74	0	06:15
J34	JUNCTION	0.41	0.50	5710.50	1	06:10
J17	JUNCTION	0.58	0.75	5720.15	0	06:09
J36	JUNCTION	1.39	1.82	5237.82	1	07:39
J39	JUNCTION	0.95	1.21	5587.21	2	10:27
J48	JUNCTION	1.21	1.55	5125.35	1	08:28
J35	JUNCTION	0.42	0.54	5495.54	0	06:16
J37	JUNCTION	0.92	1.12	5031.12	1	08:36
J38	JUNCTION	1.23	1.56	5106.24	1	08:32
J40	JUNCTION	1.25	1.59	5087.59	1	08:33
J28	JUNCTION	1.11	1.48	5731.48	0	06:33
J41	JUNCTION	1.08	1.36	5707.36	0	06:21
J42	JUNCTION	1.36	1.89	5687.89	1	06:43
J43	JUNCTION	0.97	1.19	5643.19	2	06:59
J44	JUNCTION	0.56	0.74	5660.74	2	07:02
J45	JUNCTION	1.84	3.85	5553.85	0	06:40
J46	JUNCTION	1.40	1.78	5546.78	1	07:02
J47	JUNCTION	1.66	2.13	5502.13	2	07:20
J49	JUNCTION	0.41	0.54	5630.54	2	07:01
J50	JUNCTION	0.57	0.77	5686.77	0	20:15
J51	JUNCTION	1.86	2.33	5483.83	1	09:12
J52	JUNCTION	1.99	2.49	5477.49	1	09:13
J53	JUNCTION	1.19	1.48	5469.48	2	09:14
J54	JUNCTION	1.39	1.75	5216.75	1	09:20
J55	JUNCTION	0.53	0.88	5710.88	1	09:24
J56	JUNCTION	1.32	1.82	5676.47	2	10:25
J57	JUNCTION	1.86	2.33	5487.33	2	09:11
J58	JUNCTION	0.15	0.20	5750.20	1	09:02
J59	JUNCTION	1.17	1.44	5526.44	2	07:06
J60	JUNCTION	1.49	1.91	5511.91	1	07:10
J61	JUNCTION	1.26	1.58	5366.58	2	09:15

J62	JUNCTION	1.96	2.58	4945.28	2	09:25
J63	JUNCTION	1.90	2.45	4934.95	2	09:27
OF1	OUTFALL	1.90	2.45	4922.45	1	09:28
OF3	OUTFALL	0.92	1.12	5011.12	1	08:36

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Node Inflow Summary
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Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days	hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal
J1	JUNCTION	0.00	24.77	1	08:21	0.000	33.704
J2	JUNCTION	1.12	24.78	1	08:12	1.330	33.760
J3	JUNCTION	2.41	17.89	1	07:45	2.405	23.534
J4	JUNCTION	0.00	16.02	2	07:25	0.000	21.175
J5	JUNCTION	0.78	16.08	1	07:06	0.931	21.239
J6	JUNCTION	0.00	7.46	0	07:05	0.000	9.757
J7	JUNCTION	5.23	7.46	0	07:00	6.605	9.760
J8	JUNCTION	0.00	2.65	1	07:01	0.000	3.166
J9	JUNCTION	2.66	2.66	0	07:00	3.166	3.166
J10	JUNCTION	3.30	8.04	0	07:00	4.286	10.581
J11	JUNCTION	0.00	4.90	0	06:18	0.000	6.296
J12	JUNCTION	2.83	4.92	0	06:08	3.588	6.297
J14	JUNCTION	3.72	3.72	0	09:00	3.335	3.335
J15	JUNCTION	0.00	3.68	1	09:17	0.000	3.336
J16	JUNCTION	8.08	11.70	1	10:00	11.138	14.464
J13	JUNCTION	3.12	14.00	2	10:06	3.709	18.162
J18	JUNCTION	3.59	19.31	1	10:01	4.275	26.295
J19	JUNCTION	0.00	19.29	1	10:11	0.000	26.269
J20	JUNCTION	3.26	3.26	0	07:00	3.868	3.868
J21	JUNCTION	0.00	19.28	1	10:16	0.000	26.252
J22	JUNCTION	1.37	27.92	1	10:27	1.436	36.286
J23	JUNCTION	1.44	6.77	0	06:52	1.709	8.972
J24	JUNCTION	0.00	5.34	1	06:48	0.000	7.265
J25	JUNCTION	0.00	5.35	0	06:44	0.000	7.268
J26	JUNCTION	0.00	5.35	0	06:38	0.000	7.271
J27	JUNCTION	0.00	26.64	1	10:18	0.000	34.898
J29	JUNCTION	1.63	5.36	0	06:32	2.225	7.273
J30	JUNCTION	0.00	3.87	0	06:25	0.000	5.050
J31	JUNCTION	0.00	3.89	0	06:18	0.000	5.052
J32	JUNCTION	0.00	3.90	0	06:15	0.000	5.052
J33	JUNCTION	0.00	3.91	0	06:10	0.000	5.053
J34	JUNCTION	1.16	3.92	0	06:06	1.465	5.053
J17	JUNCTION	2.83	2.83	0	06:00	3.588	3.588
J36	JUNCTION	0.00	16.00	1	07:33	0.000	21.151
J39	JUNCTION	0.00	29.71	1	10:24	0.000	39.058
J48	JUNCTION	0.75	25.38	1	08:25	0.923	34.599
J35	JUNCTION	2.15	2.15	0	06:00	2.709	2.709
J37	JUNCTION	0.00	28.70	1	08:34	0.000	39.612
J38	JUNCTION	0.60	25.71	1	08:29	0.750	35.327
J40	JUNCTION	3.63	28.70	1	08:29	4.337	39.643
J28	JUNCTION	9.37	9.37	0	06:00	12.485	12.485
J41	JUNCTION	8.46	17.03	0	06:11	10.852	23.334
J42	JUNCTION	3.86	20.78	1	06:18	4.868	28.552
J43	JUNCTION	0.00	23.75	1	06:53	0.000	32.990
J44	JUNCTION	3.60	3.60	0	07:00	4.446	4.446
J45	JUNCTION	1.62	25.37	1	07:00	1.928	34.894
J46	JUNCTION	0.00	25.37	1	07:00	0.000	34.890
J47	JUNCTION	1.56	28.19	1	07:11	1.565	38.927
J49	JUNCTION	2.29	2.29	0	07:00	2.791	2.791
J50	JUNCTION	3.36	3.36	0	20:00	4.310	4.310
J51	JUNCTION	0.66	55.84	2	09:11	0.785	78.630
J52	JUNCTION	1.48	57.04	1	09:12	1.753	80.368
J53	JUNCTION	2.40	59.29	1	09:13	2.920	83.264
J54	JUNCTION	0.31	59.49	1	09:16	0.375	83.605

J55	JUNCTION	4.88	4.88	0	09:00	4.379	4.379
J56	JUNCTION	0.00	24.00	1	10:18	0.000	30.614
J57	JUNCTION	0.00	55.33	1	09:06	0.000	77.924
J58	JUNCTION	0.30	0.30	0	09:00	0.357	0.357
J59	JUNCTION	1.89	27.01	1	07:02	2.513	37.387
J60	JUNCTION	0.00	27.00	1	07:06	0.000	37.375
J61	JUNCTION	0.00	59.29	1	09:14	0.000	83.251
J62	JUNCTION	0.00	59.47	1	09:20	0.000	83.448
J63	JUNCTION	0.00	59.45	1	09:25	0.000	83.454
OF1	OUTFALL	0.00	59.45	1	09:28	0.000	83.421
OF3	OUTFALL	0.00	28.70	2	08:36	0.000	39.591

****
Node Surcharge Summary
****

Surcharging occurs when water rises above the top of the highest conduit.

Node	Type	Hours Surcharged	Max. Height Above Crown Feet	Min. Depth Below Rim Feet
J45	JUNCTION	6.07	1.348	6.152

****
Node Flooding Summary
****

No nodes were flooded.

****
Outfall Loading Summary
****

Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume 10^6 gal
OF1	99.79	43.12	59.45	83.421
OF3	99.96	20.43	28.70	39.591
System	99.87	63.55	87.89	123.012

****
Link Flow Summary
****

Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
C1	CONDUIT	2.65	1 07:01	4.85	0.80	0.68
C2	CONDUIT	2.56	0 07:21	4.85	0.78	0.64
C3	CONDUIT	7.46	0 07:05	10.74	0.45	0.74
C5	CONDUIT	16.02	2 07:25	4.19	0.88	0.73
C6	CONDUIT	16.00	1 07:33	4.23	0.86	0.72
C7	CONDUIT	15.98	1 07:39	3.90	0.88	0.83
C8	CONDUIT	17.72	1 08:17	4.44	0.96	0.76
C9	CONDUIT	24.77	1 08:21	10.08	0.88	0.73
C12	CONDUIT	24.77	1 08:25	9.79	0.88	0.75
C11	CONDUIT	25.38	1 08:28	8.66	0.82	0.69
C16	CONDUIT	4.90	0 06:18	8.02	0.89	0.73
C17	CONDUIT	4.90	1 06:23	6.16	0.62	0.62
C18	CONDUIT	8.02	1 07:01	6.37	0.62	0.79

C19	CONDUIT	3.68	1	09:17	4.86	0.57	0.61
C20	CONDUIT	3.62	1	10:01	3.29	0.80	0.84
C22	CONDUIT	13.99	1	10:12	6.10	0.66	0.69
C21	CONDUIT	11.61	1	10:13	5.07	0.86	0.68
C23	CONDUIT	19.29	1	10:11	7.42	0.78	0.62
C24	CONDUIT	19.28	1	10:16	7.55	0.59	0.61
C26	CONDUIT	27.92	1	10:30	13.37	0.50	0.52
C44	CONDUIT	55.84	1	09:12	8.46	0.86	0.74
C14	CONDUIT	2.80	0	06:09	4.02	0.45	0.42
C29	CONDUIT	3.91	0	06:10	4.72	0.14	0.31
C30	CONDUIT	3.90	0	06:15	5.33	0.25	0.28
C31	CONDUIT	3.89	0	06:18	5.51	0.08	0.35
C32	CONDUIT	3.87	0	06:25	3.45	0.44	0.39
C33	CONDUIT	3.86	0	06:30	6.78	0.37	0.47
C34	CONDUIT	5.35	0	06:38	9.03	0.52	0.49
C35	CONDUIT	5.35	0	06:44	8.86	0.30	0.37
C36	CONDUIT	5.34	1	06:48	8.86	0.30	0.37
C37	CONDUIT	5.34	0	06:49	8.30	0.30	0.39
C39	CONDUIT	26.62	1	10:29	8.50	0.83	0.61
C25	CONDUIT	4.82	0	09:25	5.25	0.84	0.70
C41	CONDUIT	3.23	1	07:03	2.47	0.41	0.72
C4	CONDUIT	6.77	1	06:54	6.59	0.36	0.68
C15	CONDUIT	7.38	1	07:30	3.21	1.01	0.91
C28	CONDUIT	2.13	0	06:16	4.03	0.57	0.64
C13	CONDUIT	25.71	1	08:32	8.64	0.83	0.70
C43	CONDUIT	28.70	2	08:36	11.93	0.30	0.37
C42	CONDUIT	28.70	1	08:34	11.48	0.78	0.60
C45	CONDUIT	57.03	1	09:14	10.73	0.88	0.61
C61	CONDUIT	59.47	1	09:20	15.38	0.84	0.77
C62	CONDUIT	59.45	1	09:25	9.43	1.03	0.84
C10	CONDUIT	9.00	1	06:28	4.32	0.99	0.81
C38	CONDUIT	16.91	0	06:21	6.50	0.81	0.81
C40	CONDUIT	20.21	1	06:50	8.12	1.00	0.77
C48	CONDUIT	3.58	0	07:02	4.75	0.66	0.59
C49	CONDUIT	23.74	1	06:59	7.88	0.55	0.76
C50	CONDUIT	25.37	1	07:00	5.72	1.12	0.86
C59	CONDUIT	27.00	1	07:06	7.75	0.63	0.67
C52	CONDUIT	28.07	1	07:20	5.54	0.94	0.81
C53	CONDUIT	2.29	1	07:01	5.23	0.57	0.77
C54	CONDUIT	3.34	0	20:15	5.17	0.94	0.77
C63	CONDUIT	19.27	1	10:21	6.46	0.80	0.74
C55	CONDUIT	23.99	1	10:25	6.79	0.99	0.83
C57	CONDUIT	29.71	1	10:27	8.04	0.47	0.71
C56	CONDUIT	55.31	2	09:11	8.68	0.86	0.72
C47	CONDUIT	0.30	0	09:02	3.45	0.19	0.55
C58	CONDUIT	25.35	1	07:03	7.59	0.82	0.64
C60	CONDUIT	59.29	1	09:14	20.57	0.77	0.68
C51	CONDUIT	26.97	1	07:10	6.40	0.93	0.81
C46	CONDUIT	59.29	1	09:15	18.80	0.84	0.74
C27	CONDUIT	59.45	1	09:28	9.61	1.00	0.82

****
Flow Classification Summary
****

Conduit	Adjusted /Actual Length	--- Fraction of Time in Flow Class ---- Up Dry	Down Dry	Sub Dry	Sup Crit	Up Crit	Down Crit	Avg. Froude Number	Avg. Flow Change
C1	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	1.16	0.0001
C2	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	1.18	0.0001
C3	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	1.41	0.0001
C5	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.64	0.0001
C6	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.64	0.0001
C7	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.52	0.0001
C8	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.68	0.0001
C9	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.70	0.0001
C12	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	1.57	0.0001

C11	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	1.39	0.0001
C16	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.88	0.0001
C17	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	1.35	0.0001
C18	1.00	0.00	0.00	0.00	0.98	0.02	0.00	0.00	0.79	0.0001
C19	1.00	0.00	0.00	0.00	0.04	0.96	0.00	0.00	1.13	0.0001
C20	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.39	0.0001
C22	1.00	0.00	0.00	0.00	0.45	0.55	0.00	0.00	1.01	0.0001
C21	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.89	0.0001
C23	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.28	0.0001
C24	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.31	0.0001
C26	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	2.48	0.0001
C44	1.00	0.00	0.00	0.00	0.19	0.81	0.00	0.00	1.07	0.0001
C14	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	1.04	0.0001
C29	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	1.22	0.0000
C30	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.46	0.0000
C31	1.00	0.00	0.00	0.00	0.96	0.04	0.00	0.00	0.96	0.0000
C32	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.80	0.0001
C33	1.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	1.76	0.0000
C34	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	2.36	0.0001
C35	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	2.43	0.0000
C36	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	2.43	0.0000
C37	1.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	2.24	0.0000
C39	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.44	0.0001
C25	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.18	0.0001
C41	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.39	0.0001
C4	1.00	0.00	0.00	0.00	0.66	0.34	0.00	0.00	1.03	0.0000
C15	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.44	0.0001
C28	1.00	0.00	0.00	0.00	0.13	0.87	0.00	0.00	1.03	0.0001
C13	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	1.38	0.0001
C43	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	2.31	0.0000
C42	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	2.01	0.0001
C45	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.58	0.0001
C61	1.00	0.00	0.00	0.00	0.00	0.70	0.00	0.30	2.30	0.0001
C62	1.00	0.00	0.00	0.00	0.13	0.87	0.00	0.00	1.19	0.0001
C10	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.72	0.0001
C38	1.00	0.00	0.00	0.00	0.40	0.60	0.00	0.00	1.03	0.0001
C40	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.38	0.0001
C48	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.13	0.0001
C49	1.00	0.00	0.00	0.00	0.10	0.89	0.00	0.01	1.29	0.0001
C50	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.80	0.0001
C59	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.23	0.0001
C52	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.71	0.0001
C53	1.00	0.00	0.00	0.00	0.98	0.02	0.00	0.00	0.61	0.0001
C54	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.21	0.0001
C63	1.00	0.00	0.00	0.00	0.53	0.46	0.00	0.00	1.00	0.0001
C55	1.00	0.00	0.00	0.00	0.70	0.30	0.00	0.00	0.97	0.0001
C57	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	1.12	0.0001
C56	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	1.13	0.0001
C47	1.00	0.00	0.00	0.00	0.26	0.11	0.00	0.63	1.32	0.0000
C58	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	1.21	0.0001
C60	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	3.34	0.0001
C51	1.00	0.00	0.00	0.00	0.98	0.02	0.00	0.00	0.89	0.0001
C46	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	2.89	0.0001
C27	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.23	0.0001

****

Conduit Surcharge Summary

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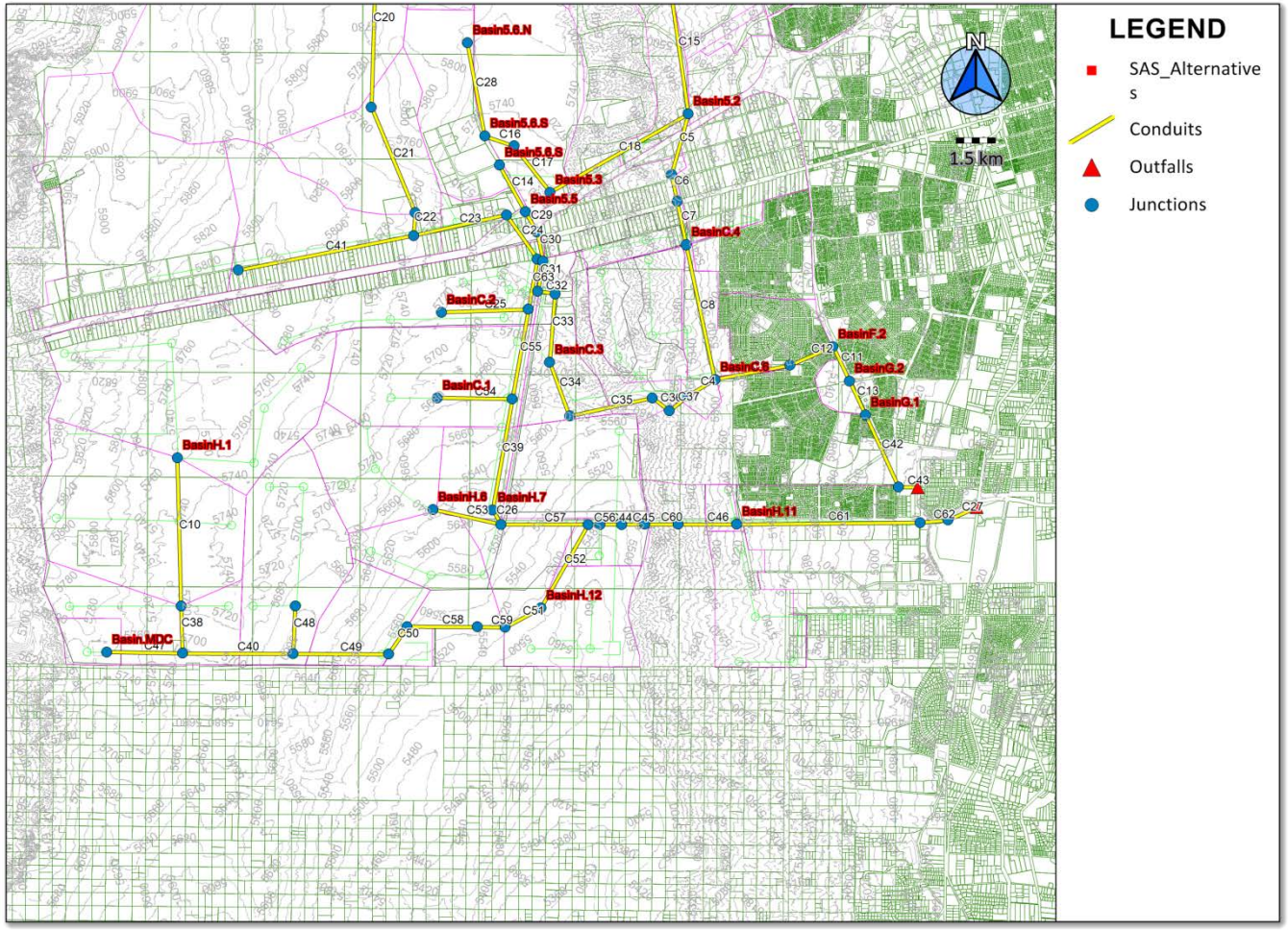
Conduit	Hours Full: Both Ends	Hours Full: Upstream	Hours Full: Dnstream	Hours Above Full Normal Flow	Capacity Limited
C15	0.01	0.01	0.01	1.93	0.01
C62	0.01	0.01	0.01	12.56	0.01
C50	0.01	0.01	0.01	8.83	0.01

Analysis begun on: Thu Dec 20 10:40:17 2012
Analysis ended on: Thu Dec 20 10:40:24 2012

PCSWMM OUTPUT – Phase 1 Condition



[PHASE 1 CONDITION]

[OPTIONS]
FLOW_UNITS CFS
INFILTRATION HORTON
FLOW_ROUTING DYNWAVE
START_DATE 08/01/2012
START_TIME 00:00:00
REPORT_START_DATE 08/01/2012
REPORT_START_TIME 00:00:00
END_DATE 08/04/2012
END_TIME 00:00:00
SWEEP_START 07/31
SWEEP_END 09/01
DRY_DAYS 0
REPORT_STEP 0:01:00
WET_STEP 0:05:00
DRY_STEP 0:05:00
ROUTING_STEP 5
ALLOW_PONDING NO
INERTIAL_DAMPING PARTIAL
VARIABLE_STEP 0.75
LENGTHENING_STEP 0
MIN_SURFAREA 0
NORMAL_FLOW_LIMITED BOTH
SKIP_STEADY_STATE NO
FORCE_MAIN_EQUATION H-W
LINK_OFFSETS DEPTH
MIN_SLOPE 0

[EVAPORATION]
;;Type Parameters
;;---------- ----------
CONSTANT 0.0
DRY_ONLY NO

[JUNCTIONS]
;; Invert Max. Init. Surcharge Ponded
;;Name Elev. Depth Depth Depth Area
;;---------- ---------- ---------- ---------- ---------- ----------
J1 5159.7 10.3 0 0 0
J2 5217.7 10.3 0 0 0
J3 5231.7 10.3 0 0 0
J4 5238.8 10.2 0 0 0
J5 5244.9 10.1 0 0 0
J6 5259 10 0 0 0
J7 5697 10 0 0 0
J8 5762 20 0 0 0
J9 5830 10 0 0 0
J10 5362.8 10.2 0 0 0
J11 5406.5 10.5 0 0 0
J12 5443 10 0 0 0
J14 5890 10 0 0 0
J15 5820 10 0 0 0
J16 5780 10 0 0 0
J13 5760 10 0 0 0
J18 5750 10 0 0 0
J19 5720 10 0 0 0
J20 5800 10 0 0 0
J21 5690 10 0 0 0
J22 5613 10 0 0 0
J23 5271 10 0 0 0
J24 5304 10 0 0 0
J25 5335 10 0 0 0
J26 5457 10 0 0 0
J27 5647 17.7 0 0 0
J29 5530 10 0 0 0
J30 5618 10 0 0 0

J31	5619.3	10.7	0	0	0
J32	5685	10	0	0	0
J33	5692	10	0	0	0
J34	5710	10	0	0	0
J17	5719.4	0	0	0	0
J36	5236	10	0	0	0
J39	5586	10	0	0	0
J48	5123.8	10.2	0	0	0
J35	5495	10	0	0	0
J37	5030	10	0	0	0
J38	5104.68	17.65	0	0	0
J40	5086	10	0	0	0
J28	5730	10	0	0	0
J41	5706	10	0	0	0
J42	5686	10	0	0	0
J43	5642	8	0	0	0
J44	5660	10	0	0	0
J45	5550	10	0	0	0
J46	5545	15	0	0	0
J47	5500	10	0	0	0
J49	5630	10	0	0	0
J50	5686	9	0	0	0
J51	5481.5	8.5	0	0	0
J52	5475	20	0	0	0
J53	5468	22	0	0	0
J54	5215	15	0	0	0
J55	5710	10	0	0	0
J56	5674.65	10	0	0	0
J57	5485	10	0	0	0
J58	5750	10	0	0	0
J59	5525	15	0	0	0
J60	5510	10	0	0	0
J61	5365	45	0	0	0
J62	4942.7	37.3	0	0	0
J63	4932.5	10	0	0	0

[OUTFALLS]

;;Name	Invert Elev.	Outfall Type	Stage/Table Time Series	Tide Gate
OF1	4920	FREE		NO
OF3	5010	FREE		NO

[CONDUITS]

;;Name	Inlet Node	Outlet Node	Manning Length	N	Inlet Offset	Outlet Offset	Init. Flow	Max. Flow
C1	J9	J8	7802.19	0.013	0	0	0	0
C2	J8	J7	7724.97	0.013	0	0	0	0
C3	J7	J6	6762.16	0.013	0	0	0	0
C5	J5	J4	3118.78	0.013	0	0	0	0
C6	J4	J36	1347.34	0.013	0	0	0	0
C7	J36	J3	2202.18	0.013	0	0	0	0
C8	J3	J2	6849.78	0.013	0	0	0	0
C9	J2	J1	3781.6	0.013	0	0	0	0
C12	J1	J48	2317.24	0.013	0	0	0	0
C11	J48	J38	1903.23	0.013	0	0	0	0
C16	J12	J11	1538.4	0.013	0	0	0	0
C17	J11	J10	2909.15	0.013	0	0	0	0
C18	J10	J5	7861.71	0.013	0	0	0	0
C19	J14	J15	6892.5	0.013	0	0	0	0
C20	J15	J16	8223.67	0.013	0	0	0	0
C22	J13	J18	1128.61	0.013	0	0	0	0
C21	J16	J13	5670.22	0.013	0	0	0	0
C23	J18	J19	4710	0.013	0	0	0	0
C24	J19	J21	2672.97	0.013	0	0	0	0
C26	J22	J39	841.74	0.013	0	0	0	0
C44	J51	J52	1062.14	0.013	0	0	0	0
C14	J17	J34	2637.63	0.013	0	0	0	0

C29	J34	J33	1148.74	0.013	0	0	0	0
C30	J33	J32	1475.83	0.013	0	0	0	0
C31	J32	J31	1512.88	0.013	0	0	0	0
C32	J31	J30	861.76	0.013	0	0	0	0
C33	J30	J29	3411.91	0.013	0	0	0	0
C34	J29	J26	2839.11	0.013	0	0	0	0
C35	J26	J25	4192.55	0.013	0	0	0	0
C36	J25	J24	1061.9	0.013	0	0	0	0
C37	J24	J23	1126.28	0.013	0	0	0	0
C39	J27	J22	5600.31	0.013	0	0	0	0
C25	J55	J56	4303.65	0.013	0	1.25	0	0
C41	J20	J18	8853.19	0.013	0	0	0	0
C4	J23	J2	1619.82	0.013	0	0	0	0
C15	J6	J5	6578.59	0.013	0	0	0	0
C28	J35	J12	4708.89	0.013	0	0	0	0
C13	J38	J40	1863.34	0.013	0	0	0	0
C43	J37	OF3	948.84	0.013	0	0	0	0
C42	J40	J37	3922.08	0.013	0	0	0	0
C45	J52	J53	1143.18	0.013	0	0	0	0
C61	J54	J62	9073.37	0.013	0	0.5	0	0
C62	J62	J63	1370.83	0.013	0	0	0	0
C10	J28	J41	7362.39	0.013	0	0	0	0
C38	J41	J42	2337.77	0.013	0	0	0	0
C40	J42	J43	5474.93	0.013	0	0	0	0
C48	J44	J43	2372.31	0.013	0	1	0	0
C49	J43	J45	4719.53	0.013	0	0.25	0	0
C50	J45	J46	1646.05	0.013	0	0	0	0
C59	J59	J60	1376.32	0.013	0	0	0	0
C52	J47	J57	4752.5	0.013	0	0	0	0
C53	J49	J39	3465.64	0.013	0	0	0	0
C54	J50	J27	3732.18	0.013	0	1.5	0	0
C63	J21	J56	2520.77	0.013	0	0	0	0
C55	J56	J27	4513.74	0.013	0	0	0	0
C57	J39	J57	4310.11	0.013	0	0	0	0
C56	J57	J51	582.07	0.013	0	0	0	0
C47	J58	J42	3755.34	0.013	0	1.33	0	0
C58	J46	J59	3479.46	0.013	0	0	0	0
C60	J53	J61	1676.44	0.013	0	0	0	0
C51	J60	J47	2011.02	0.013	0	0	0	0
C46	J61	J54	2894.26	0.013	0	0	0	0
C27	J63	OF1	1567.44	0.013	0	0	0	0

[XSECTIONS]

;;Link	Shape	Geom1	Geom2	Geom3	Geom4	Barrels
;;----------	----------	----------	----------	----------	----------	----------
C1	CIRCULAR	1	0	0	0	1
C2	CIRCULAR	1	0	0	0	1
C3	CIRCULAR	1.25	0	0	0	1
C5	CIRCULAR	2.5	0	0	0	1
C6	CIRCULAR	2.5	0	0	0	1
C7	CIRCULAR	2.5	0	0	0	1
C8	CIRCULAR	2.5	0	0	0	1
C9	CIRCULAR	2	0	0	0	1
C12	CIRCULAR	2	0	0	0	1
C11	CIRCULAR	2.25	0	0	0	1
C16	CIRCULAR	1	0	0	0	1
C17	CIRCULAR	1.25	0	0	0	1
C18	CIRCULAR	1.5	0	0	0	1
C19	CIRCULAR	1.25	0	0	0	1
C20	CIRCULAR	1.25	0	0	0	1
C22	CIRCULAR	2	0	0	0	1
C21	CIRCULAR	2	0	0	0	1
C23	CIRCULAR	2.25	0	0	0	1
C24	CIRCULAR	2.25	0	0	0	1
C26	CIRCULAR	2.25	0	0	0	1
C44	CIRCULAR	3.25	0	0	0	1
C14	CIRCULAR	1.5	0	0	0	1
C29	CIRCULAR	2	0	0	0	1
C30	CIRCULAR	2	0	0	0	1

C31	CIRCULAR	2	0	0	0	1
C32	CIRCULAR	2	0	0	0	1
C33	CIRCULAR	1.25	0	0	0	1
C34	CIRCULAR	1.25	0	0	0	1
C35	CIRCULAR	1.5	0	0	0	1
C36	CIRCULAR	1.5	0	0	0	1
C37	CIRCULAR	1.5	0	0	0	1
C39	CIRCULAR	2.5	0	0	0	1
C25	CIRCULAR	1.25	0	0	0	1
C41	CIRCULAR	1.5	0	0	0	1
C4	CIRCULAR	1.5	0	0	0	1
C15	CIRCULAR	1.75	0	0	0	1
C28	CIRCULAR	1	0	0	0	1
C13	CIRCULAR	2.25	0	0	0	1
C43	CIRCULAR	3	0	0	0	1
C42	CIRCULAR	2.25	0	0	0	1
C45	CIRCULAR	3.25	0	0	0	1
C61	CIRCULAR	1.25	0	0	0	1
C62	CIRCULAR	3	0	0	0	1
C10	CIRCULAR	1.75	0	0	0	1
C38	CIRCULAR	2	0	0	0	1
C40	CIRCULAR	2	0	0	0	1
C48	CIRCULAR	1.25	0	0	0	1
C49	CIRCULAR	2.25	0	0	0	1
C50	CIRCULAR	2.5	0	0	0	1
C59	CIRCULAR	2.5	0	0	0	1
C52	CIRCULAR	2.75	0	0	0	1
C53	CIRCULAR	1	0	0	0	1
C54	CIRCULAR	1	0	0	0	1
C63	CIRCULAR	2.25	0	0	0	1
C55	CIRCULAR	2.25	0	0	0	1
C57	CIRCULAR	2.5	0	0	0	1
C56	CIRCULAR	3.25	0	0	0	1
C47	CIRCULAR	0.67	0	0	0	1
C58	CIRCULAR	2.5	0	0	0	1
C60	CIRCULAR	2.25	0	0	0	1
C51	CIRCULAR	2.5	0	0	0	1
C46	CIRCULAR	2.25	0	0	0	1
C27	CIRCULAR	1.75	0	0	0	1

[LOSSES]

;;Link	Inlet	Outlet	Average	Flap Gate
;;----------	----------	----------	----------	----------

[INFLOWS]

;;Node	Parameter	Time Series	Param Type	Units	Scale Factor	Baseline Factor	Baseline Value	Pattern
;;----------	----------	----------	--------	--------	--------	--------	--------	
J2	Flow	BasinC.6	FLOW	1.0	1	0		
J3	Flow	BasinC.4	FLOW	1.0	1	0		
J5	Flow	Basin5.2	FLOW	1.0	1	0		
J7	Flow	Basin5.4	FLOW	1.0	1	0		
J9	Flow	BasinE.3	FLOW	1.0	1	0		
J10	Flow	Basin5.3	FLOW	1.0	1	0		
J12	Flow	Basin5.6.S	FLOW	1.0	1	0		
J22	Flow	BasinH.7	FLOW	1.0	1	0		
J29	Flow	BasinC.3	FLOW	1.0	1	0		
J34	Flow	Basin5.5	FLOW	1.0	1	0		
J17	Flow	Basin5.6.S	FLOW	1.0	1	0		
J48	Flow	BasinF.2	FLOW	1.0	1	0		
J35	Flow	Basin5.6.N	FLOW	1.0	1	0		
J38	Flow	BasinG.2	FLOW	1.0	1	0		
J40	Flow	BasinG.1	FLOW	1.0	1	0		
J28	Flow	BasinH.1	FLOW	1.0	1	0		
J47	Flow	BasinH.12	FLOW	1.0	1	0		
J49	Flow	BasinH.6	FLOW	1.0	1	0		
J50	Flow	BasinC.1	FLOW	1.0	1	0		
J54	Flow	BasinH.11	FLOW	1.0	1	0		
J55	Flow	BasinC.2	FLOW	1.0	1	0		

```
J58          Flow          Basin.MDC       FLOW     1.0      1       0

[TIMESERIES]
;;Name          Date       Time       Value
;;-------------- ---------- ---------- ----------
Basin4.A        FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin 4.A.dat"

Basin2.A        FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin 2A.dat"

Basin2.B        FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin 2B.dat"

Basin1          FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin 1.dat"

Basin3          FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin 3.dat"

Basin4.B        FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin 4.B.dat"

Basin5.1        FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin 5.1.dat"

Basin5.2        FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin5.2.dat"

Basin5.3        FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin5.3.dat"

Basin5.4        FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin 5.4.dat"

Basin5.5        FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin 5.5.dat"

Basin5.6.N      FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin 5.6.N.dat"

Basin5.6.S      FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin 5.6.S.dat"

BasinC.4        FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin C.4.dat"

BasinC.5        FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin C.5.dat"

BasinC.6        FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin C.6.dat"

BasinE.1.1      FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin E.1.1.dat"

BasinE.1.2      FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin E.1.2.dat"

BasinE.2.1      FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin E.2.1.dat"

BasinE.2.2      FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin E.2.2.dat"

BasinE.2.3      FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin E.2.3.dat"

BasinE.3        FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin E.3.dat"

BasinF.1        FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin F.1.dat"

BasinF.2        FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin F.2.dat"

BasinG.1        FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin G.1.dat"

BasinG.2        FILE "P:\20120255\CDP\Design\SAS Analysis\PCSWMM Model\Basin G.2.dat"

Basin.MDC       FILE "P:\20120256\CDP\Reports\SAS Analysis\PCSWMM Model\Daily Flow Curve dat Files\Ultimate Buildout\Basin
MDC.dat"

BasinJ.2        FILE "P:\20120256\CDP\Reports\SAS Analysis\PCSWMM Model\Daily Flow Curve dat Files\Ultimate Buildout\Basin J.2.dat"

BasinC.1        FILE "P:\20120256\CDP\Reports\SAS Analysis\PCSWMM Model\Daily Flow Curve dat Files\Phase 1\Basin C.1.dat"

BasinC.2        FILE "P:\20120256\CDP\Reports\SAS Analysis\PCSWMM Model\Daily Flow Curve dat Files\Phase 1\Basin C.2.dat"

BasinC.3        FILE "P:\20120256\CDP\Reports\SAS Analysis\PCSWMM Model\Daily Flow Curve dat Files\Phase 1\Basin C.3.dat"

BasinH.1        FILE "P:\20120256\CDP\Reports\SAS Analysis\PCSWMM Model\Daily Flow Curve dat Files\Phase 1\Basin H.1.dat"
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BasinH.2 FILE "P:\20120256\CDP\Reports\SAS Analysis\PCSWMM Model\Daily Flow Curve dat Files\Phase 1\Basin H.2.dat"

BasinH.6 FILE "P:\20120256\CDP\Reports\SAS Analysis\PCSWMM Model\Daily Flow Curve dat Files\Phase 1\Basin H.6.dat"

BasinH.7 FILE "P:\20120256\CDP\Reports\SAS Analysis\PCSWMM Model\Daily Flow Curve dat Files\Phase 1\Basin H.7.dat"

BasinH.9 FILE "P:\20120256\CDP\Reports\SAS Analysis\PCSWMM Model\Daily Flow Curve dat Files\Phase 1\Basin H.9.dat"

BasinH.11 FILE "P:\20120256\CDP\Reports\SAS Analysis\PCSWMM Model\Daily Flow Curve dat Files\Phase 1\Basin H.11.dat"

BasinH.12 FILE "P:\20120256\CDP\Reports\SAS Analysis\PCSWMM Model\Daily Flow Curve dat Files\Phase 1\Basin H.12.dat"

BasinK.1 FILE "P:\20120256\CDP\Reports\SAS Analysis\PCSWMM Model\Daily Flow Curve dat Files\Phase 1\Basin K.1.dat"

[REPORT]
INPUT YES
CONTROLS NO
SUBCATCHMENTS ALL
NODES ALL
LINKS ALL

[TAGS]

[MAP]
DIMENSIONS 1456220.70864303 1455857.39441784 1503590.18092442 1502465.20189638
UNITS Feet

[COORDINATES]
;;Node X-Coord Y-Coord
;;---------- ---------- ----------
J1 1492194.842 1472310.146
J2 1488482.412 1471590.193
J3 1487053.246 1478289.22
J4 1486329.253 1481764.1
J5 1487156.132 1484771.265
J6 1486234.944 1491285.039
J7 1479592.964 1492554.258
J8 1479451.073 1500277.926
J9 1471649.188 1500346.665
J10 1480324.86 1480880.216
J11 1478541.639 1483178.749
J12 1477085.404 1483674.793
J14 1464836.906 1493835.74
J15 1471710.452 1493324.869
J16 1471478.237 1485104.48
J13 1473651.63 1479867.33
J18 1473568.167 1478741.806
J19 1478166.011 1479763.549
J20 1464883.349 1477023.42
J21 1479691.655 1477568.739
J22 1477473.078 1465130.229
J23 1487089.885 1470762.732
J24 1486227.876 1470037.861
J25 1485385.457 1470684.368
J26 1481290.913 1469783.176
J27 1478459.351 1470643.011
J29 1480297.401 1472442.777
J30 1480565.317 1475844.152
J31 1479714.974 1475983.934
J32 1479971.242 1477474.948
J33 1479668.379 1478919.367
J34 1479098.333 1479916.69
J17 1477818.019 1482222.741
J36 1486609.645 1480446.258
J39 1477899.219 1464404.329
J48 1494321.738 1473229.89
J35 1476228.269 1488305.013

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J37          1497564.222     1466258.721
J38          1495139.57      1471511.335
J40          1495940.261     1469828.801
J28          1461872.883     1467724.581
J41          1462062.082     1460364.619
J42          1462128.848     1458027.803
J43          1467603.674     1457994.42
J44          1467703.823     1460364.619
J45          1472323.163     1457975.931
J46          1473243.866     1459340.4
J47          1479868.051     1460268.729
J49          1474516.206     1465156.59
J50          1474727.392     1470683.589
J51          1482791.389     1464407.419
J52          1483853.526     1464409.918
J53          1484996.705     1464412.606
J54          1489567.396     1464423.358
J55          1474948.35      1474927.31
J56          1479249.027     1475087.137
J57          1482209.326     1464404.506
J58          1458373.866     1458079.669
J59          1476723.286     1459324.656
J60          1478099.538     1459311.365
J61          1486673.14      1464416.55
J62          1498640.397     1464505.692
J63          1500006.207     1464622.844
OF1           1501437.023     1465262.862
OF3           1498513.043     1466253.511

[VERTICES]
;;Link          X-Coord          Y-Coord
;;-------------- ---------------- ----------------


EPA STORM WATER MANAGEMENT MODEL - VERSION 5.0 (Build 5.0.022)
  --------------------------------------------------------------


  ***********************************************************
  NOTE: The summary statistics displayed in this report are
  based on results found at every computational time step,
  not just on results from each reporting time step.
  ***********************************************************

  ****************
  Analysis Options
  ****************
  Flow Units ............... CFS
  Process Models:
    Rainfall/Runoff ........ NO
    Snowmelt ............... NO
    Groundwater ............ NO
    Flow Routing ........... YES
    Ponding Allowed ........ NO
    Water Quality .......... NO
  Flow Routing Method ...... DYNWAVE
  Starting Date ............ AUG-01-2012 00:00:00
  Ending Date .............. AUG-04-2012 00:00:00
  Antecedent Dry Days ...... 0.0
  Report Time Step ......... 00:01:00
  Routing Time Step ........ 5.00 sec


  *************
  Element Count
  *************
  Number of rain gages ...... 0
  Number of subcatchments ... 0
  Number of nodes ........... 65
```

Number of links 63
Number of pollutants 0
Number of land uses 0

****
Node Summary
****

Name	Type	Invert Elev.	Max. Depth	Ponded Area	External Inflow
J1	JUNCTION	5159.70	10.30	0.0	
J2	JUNCTION	5217.70	10.30	0.0	Yes
J3	JUNCTION	5231.70	10.30	0.0	Yes
J4	JUNCTION	5238.80	10.20	0.0	
J5	JUNCTION	5244.90	10.10	0.0	Yes
J6	JUNCTION	5259.00	10.00	0.0	
J7	JUNCTION	5697.00	10.00	0.0	Yes
J8	JUNCTION	5762.00	20.00	0.0	
J9	JUNCTION	5830.00	10.00	0.0	Yes
J10	JUNCTION	5362.80	10.20	0.0	Yes
J11	JUNCTION	5406.50	10.50	0.0	
J12	JUNCTION	5443.00	10.00	0.0	Yes
J14	JUNCTION	5890.00	10.00	0.0	
J15	JUNCTION	5820.00	10.00	0.0	
J16	JUNCTION	5780.00	10.00	0.0	
J13	JUNCTION	5760.00	10.00	0.0	
J18	JUNCTION	5750.00	10.00	0.0	
J19	JUNCTION	5720.00	10.00	0.0	
J20	JUNCTION	5800.00	10.00	0.0	
J21	JUNCTION	5690.00	10.00	0.0	
J22	JUNCTION	5613.00	10.00	0.0	Yes
J23	JUNCTION	5271.00	10.00	0.0	
J24	JUNCTION	5304.00	10.00	0.0	
J25	JUNCTION	5335.00	10.00	0.0	
J26	JUNCTION	5457.00	10.00	0.0	
J27	JUNCTION	5647.00	17.70	0.0	
J29	JUNCTION	5530.00	10.00	0.0	Yes
J30	JUNCTION	5618.00	10.00	0.0	
J31	JUNCTION	5619.30	10.70	0.0	
J32	JUNCTION	5685.00	10.00	0.0	
J33	JUNCTION	5692.00	10.00	0.0	
J34	JUNCTION	5710.00	10.00	0.0	Yes
J17	JUNCTION	5719.40	1.50	0.0	Yes
J36	JUNCTION	5236.00	10.00	0.0	
J39	JUNCTION	5586.00	10.00	0.0	
J48	JUNCTION	5123.80	10.20	0.0	Yes
J35	JUNCTION	5495.00	10.00	0.0	Yes
J37	JUNCTION	5030.00	10.00	0.0	
J38	JUNCTION	5104.68	17.65	0.0	Yes
J40	JUNCTION	5086.00	10.00	0.0	Yes
J28	JUNCTION	5730.00	10.00	0.0	Yes
J41	JUNCTION	5706.00	10.00	0.0	
J42	JUNCTION	5686.00	10.00	0.0	
J43	JUNCTION	5642.00	8.00	0.0	
J44	JUNCTION	5660.00	10.00	0.0	
J45	JUNCTION	5550.00	10.00	0.0	
J46	JUNCTION	5545.00	15.00	0.0	
J47	JUNCTION	5500.00	10.00	0.0	Yes
J49	JUNCTION	5630.00	10.00	0.0	Yes
J50	JUNCTION	5686.00	9.00	0.0	Yes
J51	JUNCTION	5481.50	8.50	0.0	
J52	JUNCTION	5475.00	20.00	0.0	
J53	JUNCTION	5468.00	22.00	0.0	
J54	JUNCTION	5215.00	15.00	0.0	Yes
J55	JUNCTION	5710.00	10.00	0.0	Yes
J56	JUNCTION	5674.65	10.00	0.0	
J57	JUNCTION	5485.00	10.00	0.0	
J58	JUNCTION	5750.00	10.00	0.0	Yes

J59	JUNCTION	5525.00	15.00	0.0
J60	JUNCTION	5510.00	10.00	0.0
J61	JUNCTION	5365.00	45.00	0.0
J62	JUNCTION	4942.70	37.30	0.0
J63	JUNCTION	4932.50	10.00	0.0
OF1	OUTFALL	4920.00	1.75	0.0
OF3	OUTFALL	5010.00	3.00	0.0

****
Link Summary
****

Name	From Node	To Node	Type	Length	%Slope	Roughness
C1	J9	J8	CONDUIT	7802.2	0.8716	0.0130
C2	J8	J7	CONDUIT	7725.0	0.8415	0.0130
C3	J7	J6	CONDUIT	6762.2	6.4909	0.0130
C5	J5	J4	CONDUIT	3118.8	0.1956	0.0130
C6	J4	J36	CONDUIT	1347.3	0.2078	0.0130
C7	J36	J3	CONDUIT	2202.2	0.1953	0.0130
C8	J3	J2	CONDUIT	6849.8	0.2044	0.0130
C9	J2	J1	CONDUIT	3781.6	1.5339	0.0130
C12	J1	J48	CONDUIT	2317.2	1.5494	0.0130
C11	J48	J38	CONDUIT	1903.2	1.0047	0.0130
C16	J12	J11	CONDUIT	1538.4	2.3733	0.0130
C17	J11	J10	CONDUIT	2909.2	1.5023	0.0130
C18	J10	J5	CONDUIT	7861.7	1.4998	0.0130
C19	J14	J15	CONDUIT	6892.5	1.0156	0.0130
C20	J15	J16	CONDUIT	8223.7	0.4864	0.0130
C22	J13	J18	CONDUIT	1128.6	0.8861	0.0130
C21	J16	J13	CONDUIT	5670.2	0.3527	0.0130
C23	J18	J19	CONDUIT	4710.0	0.6370	0.0130
C24	J19	J21	CONDUIT	2673.0	1.1224	0.0130
C26	J22	J39	CONDUIT	841.7	3.2093	0.0130
C44	J51	J52	CONDUIT	1062.1	0.6120	0.0130
C14	J17	J34	CONDUIT	2637.6	0.3564	0.0130
C29	J34	J33	CONDUIT	1148.7	1.5671	0.0130
C30	J33	J32	CONDUIT	1475.8	0.4743	0.0130
C31	J32	J31	CONDUIT	1512.9	4.3468	0.0130
C32	J31	J30	CONDUIT	861.8	0.1509	0.0130
C33	J30	J29	CONDUIT	3411.9	2.5801	0.0130
C34	J29	J26	CONDUIT	2839.1	2.5721	0.0130
C35	J26	J25	CONDUIT	4192.6	2.9112	0.0130
C36	J25	J24	CONDUIT	1061.9	2.9205	0.0130
C37	J24	J23	CONDUIT	1126.3	2.9313	0.0130
C39	J27	J22	CONDUIT	5600.3	0.6071	0.0130
C25	J55	J56	CONDUIT	4303.6	0.7924	0.0130
C41	J20	J18	CONDUIT	8853.2	0.5648	0.0130
C4	J23	J2	CONDUIT	1619.8	3.2923	0.0130
C15	J6	J5	CONDUIT	6578.6	0.2143	0.0130
C28	J35	J12	CONDUIT	4708.9	1.1044	0.0130
C13	J38	J40	CONDUIT	1863.3	1.0026	0.0130
C43	J37	OF3	CONDUIT	948.8	2.1083	0.0130
C42	J40	J37	CONDUIT	3922.1	1.4280	0.0130
C45	J52	J53	CONDUIT	1143.2	0.6123	0.0130
C61	J54	J62	CONDUIT	9073.4	2.9969	0.0130
C62	J62	J63	CONDUIT	1370.8	0.7441	0.0130
C10	J28	J41	CONDUIT	7362.4	0.3260	0.0130
C38	J41	J42	CONDUIT	2337.8	0.8555	0.0130
C40	J42	J43	CONDUIT	5474.9	0.8037	0.0130
C48	J44	J43	CONDUIT	2372.3	0.7166	0.0130
C49	J43	J45	CONDUIT	4719.5	1.9444	0.0130
C50	J45	J46	CONDUIT	1646.1	0.3038	0.0130
C59	J59	J60	CONDUIT	1376.3	1.0899	0.0130
C52	J47	J57	CONDUIT	4752.5	0.3156	0.0130
C53	J49	J39	CONDUIT	3465.6	1.2697	0.0130
C54	J50	J27	CONDUIT	3732.2	1.0048	0.0130
C63	J21	J56	CONDUIT	2520.8	0.6090	0.0130
C55	J56	J27	CONDUIT	4513.7	0.6126	0.0130

C57	J39	J57	CONDUIT	4310.1	2.3440	0.0130
C56	J57	J51	CONDUIT	582.1	0.6013	0.0130
C47	J58	J42	CONDUIT	3755.3	1.6691	0.0130
C58	J46	J59	CONDUIT	3479.5	0.5748	0.0130
C60	J53	J61	CONDUIT	1676.4	6.1556	0.0130
C51	J60	J47	CONDUIT	2011.0	0.4973	0.0130
C46	J61	J54	CONDUIT	2894.3	5.1896	0.0130
C27	J63	OF1	CONDUIT	1567.4	0.7975	0.0130

****
Cross Section Summary
****

Conduit	Shape	Full Depth	Full Area	Hyd. Rad.	Max. Width	No. of Barrels	Full Flow
C1	CIRCULAR	1.00	0.79	0.25	1.00	1	3.33
C2	CIRCULAR	1.00	0.79	0.25	1.00	1	3.27
C3	CIRCULAR	1.25	1.23	0.31	1.25	1	16.46
C5	CIRCULAR	2.50	4.91	0.63	2.50	1	18.14
C6	CIRCULAR	2.50	4.91	0.63	2.50	1	18.70
C7	CIRCULAR	2.50	4.91	0.63	2.50	1	18.12
C8	CIRCULAR	2.50	4.91	0.63	2.50	1	18.54
C9	CIRCULAR	2.00	3.14	0.50	2.00	1	28.02
C12	CIRCULAR	2.00	3.14	0.50	2.00	1	28.16
C11	CIRCULAR	2.25	3.98	0.56	2.25	1	31.04
C16	CIRCULAR	1.00	0.79	0.25	1.00	1	5.49
C17	CIRCULAR	1.25	1.23	0.31	1.25	1	7.92
C18	CIRCULAR	1.50	1.77	0.38	1.50	1	12.86
C19	CIRCULAR	1.25	1.23	0.31	1.25	1	6.51
C20	CIRCULAR	1.25	1.23	0.31	1.25	1	4.51
C22	CIRCULAR	2.00	3.14	0.50	2.00	1	21.29
C21	CIRCULAR	2.00	3.14	0.50	2.00	1	13.44
C23	CIRCULAR	2.25	3.98	0.56	2.25	1	24.72
C24	CIRCULAR	2.25	3.98	0.56	2.25	1	32.81
C26	CIRCULAR	2.25	3.98	0.56	2.25	1	55.48
C44	CIRCULAR	3.25	8.30	0.81	3.25	1	64.59
C14	CIRCULAR	1.50	1.77	0.38	1.50	1	6.27
C29	CIRCULAR	2.00	3.14	0.50	2.00	1	28.32
C30	CIRCULAR	2.00	3.14	0.50	2.00	1	15.58
C31	CIRCULAR	2.00	3.14	0.50	2.00	1	47.17
C32	CIRCULAR	2.00	3.14	0.50	2.00	1	8.79
C33	CIRCULAR	1.25	1.23	0.31	1.25	1	10.38
C34	CIRCULAR	1.25	1.23	0.31	1.25	1	10.36
C35	CIRCULAR	1.50	1.77	0.38	1.50	1	17.92
C36	CIRCULAR	1.50	1.77	0.38	1.50	1	17.95
C37	CIRCULAR	1.50	1.77	0.38	1.50	1	17.98
C39	CIRCULAR	2.50	4.91	0.63	2.50	1	31.96
C25	CIRCULAR	1.25	1.23	0.31	1.25	1	5.75
C41	CIRCULAR	1.50	1.77	0.38	1.50	1	7.89
C4	CIRCULAR	1.50	1.77	0.38	1.50	1	19.06
C15	CIRCULAR	1.75	2.41	0.44	1.75	1	7.34
C28	CIRCULAR	1.00	0.79	0.25	1.00	1	3.74
C13	CIRCULAR	2.25	3.98	0.56	2.25	1	31.01
C43	CIRCULAR	3.00	7.07	0.75	3.00	1	96.85
C42	CIRCULAR	2.25	3.98	0.56	2.25	1	37.01
C45	CIRCULAR	3.25	8.30	0.81	3.25	1	64.61
C61	CIRCULAR	1.25	1.23	0.31	1.25	1	11.18
C62	CIRCULAR	3.00	7.07	0.75	3.00	1	57.53
C10	CIRCULAR	1.75	2.41	0.44	1.75	1	9.05
C38	CIRCULAR	2.00	3.14	0.50	2.00	1	20.92
C40	CIRCULAR	2.00	3.14	0.50	2.00	1	20.28
C48	CIRCULAR	1.25	1.23	0.31	1.25	1	5.47
C49	CIRCULAR	2.25	3.98	0.56	2.25	1	43.19
C50	CIRCULAR	2.50	4.91	0.63	2.50	1	22.61
C59	CIRCULAR	2.50	4.91	0.63	2.50	1	42.82
C52	CIRCULAR	2.75	5.94	0.69	2.75	1	29.71
C53	CIRCULAR	1.00	0.79	0.25	1.00	1	4.01
C54	CIRCULAR	1.00	0.79	0.25	1.00	1	3.57

C63	CIRCULAR	2.25	3.98	0.56	2.25	1	24.17
C55	CIRCULAR	2.25	3.98	0.56	2.25	1	24.24
C57	CIRCULAR	2.50	4.91	0.63	2.50	1	62.80
C56	CIRCULAR	3.25	8.30	0.81	3.25	1	64.03
C47	CIRCULAR	0.67	0.35	0.17	0.67	1	1.58
C58	CIRCULAR	2.50	4.91	0.63	2.50	1	31.10
C60	CIRCULAR	2.25	3.98	0.56	2.25	1	76.84
C51	CIRCULAR	2.50	4.91	0.63	2.50	1	28.92
C46	CIRCULAR	2.25	3.98	0.56	2.25	1	70.55
C27	CIRCULAR	1.75	2.41	0.44	1.75	1	14.15

********** Flow Routing Continuity **********	Volume acre-feet ---------	Volume 10^6 gal ---------
Dry Weather Inflow	0.000	0.000
Wet Weather Inflow	0.000	0.000
Groundwater Inflow	0.000	0.000
RDII Inflow	0.000	0.000
External Inflow	164.916	53.740
External Outflow	162.957	53.102
Internal Outflow	0.000	0.000
Storage Losses	0.000	0.000
Initial Stored Volume	0.000	0.000
Final Stored Volume	2.008	0.654
Continuity Error (%)	-0.029	

****
Time-Step Critical Elements
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None

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Highest Flow Instability Indexes
****
All links are stable.

****
Routing Time Step Summary
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Minimum Time Step	:	5.00 sec
Average Time Step	:	5.00 sec
Maximum Time Step	:	5.00 sec
Percent in Steady State	:	0.00
Average Iterations per Step	:	2.00

****
Node Depth Summary
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Node	Type	Average Depth Feet	Maximum Depth Feet	Maximum HGL Feet	Time of Max Occurrence days	hr:min
J1	JUNCTION	1.09	1.40	5161.10	2	08:27
J2	JUNCTION	1.10	1.41	5219.11	1	08:22
J3	JUNCTION	1.69	2.38	5234.08	1	08:15
J4	JUNCTION	1.36	1.78	5240.58	2	07:33
J5	JUNCTION	1.41	1.86	5246.76	2	07:19
J6	JUNCTION	1.07	1.44	5260.44	1	07:30
J7	JUNCTION	0.47	0.59	5697.59	0	07:05
J8	JUNCTION	0.50	0.69	5762.69	0	07:22
J9	JUNCTION	0.49	0.67	5830.67	1	07:01

J10	JUNCTION	0.67	0.86	5363.66	2	07:01
J11	JUNCTION	0.55	0.71	5407.21	2	06:23
J12	JUNCTION	0.55	0.74	5443.74	0	06:16
J14	JUNCTION	0.00	0.00	5890.00	0	00:00
J15	JUNCTION	0.00	0.00	5820.00	0	00:00
J16	JUNCTION	0.00	0.00	5780.00	0	00:00
J13	JUNCTION	0.00	0.00	5760.00	0	00:00
J18	JUNCTION	0.00	0.00	5750.00	0	00:00
J19	JUNCTION	0.00	0.00	5720.00	0	00:00
J20	JUNCTION	0.00	0.00	5800.00	0	00:00
J21	JUNCTION	0.00	0.00	5690.00	0	00:00
J22	JUNCTION	0.38	0.48	5613.48	2	10:07
J23	JUNCTION	0.45	0.54	5271.54	1	06:51
J24	JUNCTION	0.46	0.56	5304.56	0	06:49
J25	JUNCTION	0.46	0.56	5335.56	0	06:48
J26	JUNCTION	0.46	0.56	5457.56	0	06:42
J27	JUNCTION	0.54	0.68	5647.68	2	10:06
J29	JUNCTION	0.53	0.66	5530.66	2	06:37
J30	JUNCTION	0.42	0.53	5618.53	0	06:30
J31	JUNCTION	0.82	1.02	5620.32	1	06:25
J32	JUNCTION	0.32	0.39	5685.39	1	06:18
J33	JUNCTION	0.60	0.74	5692.74	2	06:15
J34	JUNCTION	0.41	0.50	5710.50	1	06:10
J17	JUNCTION	0.58	0.75	5720.15	1	06:09
J36	JUNCTION	1.39	1.82	5237.82	1	07:39
J39	JUNCTION	0.43	0.54	5586.54	1	10:08
J48	JUNCTION	1.17	1.49	5125.29	2	08:30
J35	JUNCTION	0.42	0.54	5495.54	0	06:16
J37	JUNCTION	0.90	1.09	5031.09	2	08:38
J38	JUNCTION	1.19	1.51	5106.19	2	08:34
J40	JUNCTION	1.21	1.54	5087.54	2	08:36
J28	JUNCTION	0.75	0.94	5730.94	0	06:14
J41	JUNCTION	0.52	0.63	5706.63	0	06:28
J42	JUNCTION	0.57	0.69	5686.69	0	06:38
J43	JUNCTION	0.42	0.50	5642.50	0	06:51
J44	JUNCTION	0.00	0.00	5660.00	0	00:00
J45	JUNCTION	0.66	0.79	5550.79	0	06:59
J46	JUNCTION	0.56	0.67	5545.67	0	07:07
J47	JUNCTION	0.62	0.74	5500.74	1	07:33
J49	JUNCTION	0.27	0.34	5630.34	0	20:07
J50	JUNCTION	0.55	0.74	5686.74	0	20:13
J51	JUNCTION	0.74	0.89	5482.39	2	09:30
J52	JUNCTION	0.80	0.96	5475.96	1	09:32
J53	JUNCTION	0.47	0.57	5468.57	1	09:34
J54	JUNCTION	0.77	0.99	5215.99	1	09:53
J55	JUNCTION	0.33	0.52	5710.52	1	09:26
J56	JUNCTION	0.29	0.45	5675.10	0	09:44
J57	JUNCTION	0.75	0.90	5485.90	1	09:28
J58	JUNCTION	0.15	0.20	5750.20	1	09:04
J59	JUNCTION	0.46	0.55	5525.55	0	07:14
J60	JUNCTION	0.56	0.67	5510.67	0	07:19
J61	JUNCTION	0.49	0.59	5365.59	2	09:36
J62	JUNCTION	0.73	0.88	4943.58	2	09:55
J63	JUNCTION	0.92	1.15	4933.65	1	09:59
OF1	OUTFALL	0.92	1.15	4921.15	1	09:59
OF3	OUTFALL	0.90	1.09	5011.09	1	08:38

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Node Inflow Summary
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Node	Type	Maximum Lateral Inflow CFS	Maximum Total Inflow CFS	Time of Max Occurrence days hr:min	Lateral Inflow Volume 10^6 gal	Total Inflow Volume 10^6 gal
J1	JUNCTION	0.00	23.58	2 08:23	0.000	31.995

J2	JUNCTION	1.12	23.59	1	08:13	1.330	32.052
J3	JUNCTION	2.41	17.89	1	07:45	2.405	23.534
J4	JUNCTION	0.00	16.02	1	07:25	0.000	21.175
J5	JUNCTION	0.78	16.08	1	07:06	0.931	21.239
J6	JUNCTION	0.00	7.46	0	07:05	0.000	9.757
J7	JUNCTION	5.23	7.46	0	07:00	6.605	9.760
J8	JUNCTION	0.00	2.65	1	07:01	0.000	3.166
J9	JUNCTION	2.66	2.66	0	07:00	3.166	3.166
J10	JUNCTION	3.30	8.04	0	07:00	4.286	10.581
J11	JUNCTION	0.00	4.90	0	06:18	0.000	6.296
J12	JUNCTION	2.83	4.92	0	06:08	3.588	6.297
J14	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
J15	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
J16	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
J13	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
J18	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
J19	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
J20	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
J21	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
J22	JUNCTION	0.93	5.54	0	10:02	1.101	7.097
J23	JUNCTION	0.00	5.34	0	06:49	0.000	7.264
J24	JUNCTION	0.00	5.34	0	06:48	0.000	7.265
J25	JUNCTION	0.00	5.35	0	06:44	0.000	7.268
J26	JUNCTION	0.00	5.35	0	06:38	0.000	7.271
J27	JUNCTION	0.00	4.62	0	09:58	0.000	6.003
J29	JUNCTION	1.63	5.36	0	06:32	2.225	7.273
J30	JUNCTION	0.00	3.87	2	06:25	0.000	5.050
J31	JUNCTION	0.00	3.89	0	06:18	0.000	5.052
J32	JUNCTION	0.00	3.90	0	06:15	0.000	5.052
J33	JUNCTION	0.00	3.91	0	06:10	0.000	5.053
J34	JUNCTION	1.16	3.92	0	06:06	1.465	5.053
J17	JUNCTION	2.83	2.83	0	06:00	3.588	3.588
J36	JUNCTION	0.00	16.00	1	07:33	0.000	21.151
J39	JUNCTION	0.00	6.33	0	10:03	0.000	8.360
J48	JUNCTION	0.75	24.19	1	08:27	0.923	32.890
J35	JUNCTION	2.15	2.15	0	06:00	2.709	2.709
J37	JUNCTION	0.00	27.51	2	08:36	0.000	37.903
J38	JUNCTION	0.60	24.53	1	08:31	0.750	33.618
J40	JUNCTION	3.63	27.51	1	08:32	4.337	37.934
J28	JUNCTION	4.81	4.81	0	06:00	6.070	6.070
J41	JUNCTION	0.00	4.56	0	06:16	0.000	6.070
J42	JUNCTION	0.00	4.69	0	06:29	0.000	6.419
J43	JUNCTION	0.00	4.66	0	06:41	0.000	6.413
J44	JUNCTION	0.00	0.00	0	00:00	0.000	0.000
J45	JUNCTION	0.00	4.61	0	06:51	0.000	6.395
J46	JUNCTION	0.00	4.58	0	07:01	0.000	6.394
J47	JUNCTION	0.28	4.74	0	07:20	0.254	6.622
J49	JUNCTION	0.98	0.98	0	20:00	1.266	1.266
J50	JUNCTION	3.22	3.22	0	20:00	4.095	4.095
J51	JUNCTION	0.00	10.70	1	09:29	0.000	14.929
J52	JUNCTION	0.00	10.70	1	09:30	0.000	14.924
J53	JUNCTION	0.00	10.70	2	09:33	0.000	14.916
J54	JUNCTION	0.31	10.91	0	09:37	0.375	15.279
J55	JUNCTION	2.13	2.13	0	09:00	1.911	1.911
J56	JUNCTION	0.00	2.10	0	09:27	0.000	1.910
J57	JUNCTION	0.00	10.72	0	09:20	0.000	14.957
J58	JUNCTION	0.30	0.30	0	09:00	0.357	0.357
J59	JUNCTION	0.00	4.57	0	07:08	0.000	6.385
J60	JUNCTION	0.00	4.55	0	07:14	0.000	6.376
J61	JUNCTION	0.00	10.70	0	09:34	0.000	14.911
J62	JUNCTION	0.00	10.86	1	09:53	0.000	15.234
J63	JUNCTION	0.00	10.86	1	09:55	0.000	15.229
OF1	OUTFALL	0.00	10.85	1	09:59	0.000	15.216
OF3	OUTFALL	0.00	27.51	1	08:38	0.000	37.882

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Node Surcharge Summary

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No nodes were surcharged.

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Node Flooding Summary
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No nodes were flooded.

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Outfall Loading Summary
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Outfall Node	Flow Freq. Pcnt.	Avg. Flow CFS	Max. Flow CFS	Total Volume 10^6 gal
OF1	99.70	7.87	10.85	15.216
OF3	99.96	19.55	27.51	37.882
System	99.83	27.42	38.07	53.098

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Link Flow Summary
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Link	Type	Maximum |Flow| CFS	Time of Max Occurrence days hr:min	Maximum |Veloc| ft/sec	Max/ Full Flow	Max/ Full Depth
C1	CONDUIT	2.65	1 07:01	4.85	0.80	0.68
C2	CONDUIT	2.56	0 07:21	4.85	0.78	0.64
C3	CONDUIT	7.46	0 07:05	10.74	0.45	0.74
C5	CONDUIT	16.02	1 07:25	4.19	0.88	0.73
C6	CONDUIT	16.00	1 07:33	4.23	0.86	0.72
C7	CONDUIT	15.98	1 07:39	3.87	0.88	0.84
C8	CONDUIT	17.73	2 08:17	4.46	0.96	0.76
C9	CONDUIT	23.58	2 08:23	10.01	0.84	0.70
C12	CONDUIT	23.58	1 08:27	9.69	0.84	0.72
C11	CONDUIT	24.19	1 08:30	8.58	0.78	0.67
C16	CONDUIT	4.90	0 06:18	8.02	0.89	0.73
C17	CONDUIT	4.90	1 06:23	6.16	0.62	0.62
C18	CONDUIT	8.02	1 07:01	6.37	0.62	0.79
C19	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
C20	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
C22	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
C21	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
C23	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
C24	CONDUIT	0.00	0 00:00	0.00	0.00	0.00
C26	CONDUIT	5.54	0 10:07	8.22	0.10	0.23
C44	CONDUIT	10.70	1 09:30	5.49	0.17	0.28
C14	CONDUIT	2.80	1 06:09	4.02	0.45	0.42
C29	CONDUIT	3.91	0 06:10	4.72	0.14	0.31
C30	CONDUIT	3.90	0 06:15	5.33	0.25	0.28
C31	CONDUIT	3.89	0 06:18	5.51	0.08	0.35
C32	CONDUIT	3.87	2 06:25	3.45	0.44	0.39
C33	CONDUIT	3.86	0 06:30	6.78	0.37	0.47
C34	CONDUIT	5.35	0 06:38	9.03	0.52	0.49
C35	CONDUIT	5.35	0 06:44	8.86	0.30	0.37
C36	CONDUIT	5.34	0 06:48	8.82	0.30	0.38
C37	CONDUIT	5.34	0 06:49	9.02	0.30	0.37
C39	CONDUIT	4.61	2 10:06	5.36	0.14	0.23
C25	CONDUIT	2.10	0 09:27	4.32	0.37	0.42
C41	CONDUIT	0.00	0 00:00	0.00	0.00	0.00

C4	CONDUIT	5.34	1	06:51	6.33	0.28	0.64
C15	CONDUIT	7.38	1	07:30	3.21	1.01	0.91
C28	CONDUIT	2.13	0	06:16	4.03	0.57	0.64
C13	CONDUIT	24.53	1	08:34	8.56	0.79	0.68
C43	CONDUIT	27.51	1	08:38	11.80	0.28	0.36
C42	CONDUIT	27.51	2	08:36	11.39	0.74	0.58
C45	CONDUIT	10.70	2	09:33	7.22	0.17	0.23
C61	CONDUIT	10.86	1	09:53	10.38	0.97	0.79
C62	CONDUIT	10.86	1	09:55	5.15	0.19	0.34
C10	CONDUIT	4.56	0	06:16	4.41	0.50	0.45
C38	CONDUIT	4.47	0	06:28	5.02	0.21	0.33
C40	CONDUIT	4.66	0	06:41	6.02	0.23	0.30
C48	CONDUIT	0.00	0	00:00	0.00	0.00	0.00
C49	CONDUIT	4.61	0	06:51	6.89	0.11	0.23
C50	CONDUIT	4.58	0	07:01	3.87	0.20	0.29
C59	CONDUIT	4.55	0	07:14	4.92	0.11	0.24
C52	CONDUIT	4.69	1	07:33	3.34	0.16	0.30
C53	CONDUIT	0.98	0	20:07	4.18	0.24	0.42
C54	CONDUIT	3.20	0	20:14	5.14	0.90	0.74
C63	CONDUIT	0.00	0	00:00	0.00	0.00	0.10
C55	CONDUIT	2.09	0	09:44	2.70	0.09	0.25
C57	CONDUIT	6.33	0	10:08	5.50	0.10	0.29
C56	CONDUIT	10.70	1	09:29	5.74	0.17	0.28
C47	CONDUIT	0.30	0	09:04	3.45	0.19	0.29
C58	CONDUIT	4.57	0	07:08	4.94	0.15	0.24
C60	CONDUIT	10.70	0	09:34	13.19	0.14	0.26
C51	CONDUIT	4.54	0	07:19	4.05	0.16	0.28
C46	CONDUIT	10.70	0	09:36	9.01	0.15	0.35
C27	CONDUIT	10.85	1	09:59	6.48	0.77	0.66

****
Flow Classification Summary
****

Conduit	Adjusted /Actual Length	--- Fraction of Time in Flow Class ---- Up Dry	Down Dry	Sub Dry	Sup Crit	Up Crit	Down Crit	Avg. Froude Number	Avg. Flow Change
C1	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	1.16	0.0001
C2	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	1.18	0.0001
C3	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	1.41	0.0001
C5	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.64	0.0001
C6	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.64	0.0001
C7	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.52	0.0001
C8	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.69	0.0001
C9	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.72	0.0001
C12	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	1.58	0.0001
C11	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	1.40	0.0001
C16	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.88	0.0001
C17	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	1.35	0.0001
C18	1.00	0.00	0.00	0.00	0.98	0.02	0.00	0.00	0.79	0.0001
C19	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
C20	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
C22	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
C21	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
C23	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
C24	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
C26	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	2.33	0.0000
C44	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	1.17	0.0000
C14	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	1.04	0.0001
C29	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	1.22	0.0000
C30	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.46	0.0000
C31	1.00	0.00	0.00	0.00	0.96	0.04	0.00	0.00	0.96	0.0000
C32	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.80	0.0001
C33	1.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	1.76	0.0000
C34	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	2.36	0.0001
C35	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	2.43	0.0000

C36	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	2.42	0.0000
C37	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	2.49	0.0000
C39	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.45	0.0000
C25	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.21	0.0000
C41	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
C4	1.00	0.00	0.00	0.00	0.79	0.20	0.00	0.00	0.92	0.0000
C15	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.44	0.0001
C28	1.00	0.00	0.00	0.00	0.13	0.87	0.00	0.00	1.03	0.0001
C13	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	1.39	0.0001
C43	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	2.31	0.0000
C42	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	2.02	0.0001
C45	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	1.70	0.0000
C61	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	2.09	0.0001
C62	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.09	0.0000
C10	1.00	0.00	0.00	0.00	0.23	0.77	0.00	0.00	1.01	0.0001
C38	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	1.26	0.0000
C40	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.61	0.0000
C48	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
C49	1.00	0.00	0.00	0.00	0.00	0.49	0.00	0.51	2.03	0.0000
C50	1.00	0.00	0.00	0.00	0.99	0.01	0.00	0.00	0.93	0.0000
C59	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	1.30	0.0000
C52	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.72	0.0000
C53	1.00	0.00	0.00	0.00	0.89	0.11	0.00	0.00	0.89	0.0000
C54	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.23	0.0001
C63	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0000
C55	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.55	0.0000
C57	1.00	0.00	0.00	0.00	0.08	0.92	0.00	0.00	1.27	0.0000
C56	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.25	0.0000
C47	1.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.59	0.0000
C58	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	1.30	0.0000
C60	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	3.57	0.0000
C51	1.00	0.00	0.01	0.00	0.89	0.10	0.00	0.00	0.97	0.0000
C46	1.00	0.00	0.00	0.00	0.01	0.99	0.00	0.00	2.12	0.0000
C27	1.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	1.21	0.0001

****
Conduit Surcharge Summary
****

Conduit	Hours Full: Both Ends	Hours Full: Upstream	Hours Full: Dnstream	Hours Above Full Normal Flow	Capacity Limited
C15	0.01	0.01	0.01	1.93	0.01

Analysis begun on: Wed Jan 16 09:51:31 2013
Analysis ended on: Wed Jan 16 09:51:38 2013

APPENDIX C

PCSWMM DAILY PATTERN INPUT FILE DATA

BY BASIN(.DAT)

ULTIMATE BUILDOUT

C.1
;;EPASWMM Time Series Data
;;Enter name... Flow (cfs)

8/1/2012	0:00	1.366354724
8/1/2012	1:00	0.943981729
8/1/2012	2:00	0.810681818
8/1/2012	3:00	0.797317291
8/1/2012	4:00	0.889286988
8/1/2012	5:00	1.501356952
8/1/2012	6:00	2.989942068
8/1/2012	7:00	3.248946078
8/1/2012	8:00	2.733426916
8/1/2012	9:00	2.698513815
8/1/2012	10:00	2.70401738
8/1/2012	11:00	2.483594029
8/1/2012	12:00	2.347279412
8/1/2012	13:00	2.233761141
8/1/2012	14:00	2.195508021
8/1/2012	15:00	2.120505793
8/1/2012	16:00	2.248631907
8/1/2012	17:00	2.480320856
8/1/2012	18:00	2.750853387
8/1/2012	19:00	3.081192068
8/1/2012	20:00	3.36141934
8/1/2012	21:00	3.279734848
8/1/2012	22:00	2.601176471
8/1/2012	23:00	2.055329768
8/2/2012	0:00	1.366354724
8/2/2012	1:00	0.943981729
8/2/2012	2:00	0.810681818
8/2/2012	3:00	0.797317291
8/2/2012	4:00	0.889286988
8/2/2012	5:00	1.501356952
8/2/2012	6:00	2.989942068
8/2/2012	7:00	3.248946078
8/2/2012	8:00	2.733426916
8/2/2012	9:00	2.698513815
8/2/2012	10:00	2.70401738
8/2/2012	11:00	2.483594029
8/2/2012	12:00	2.347279412
8/2/2012	13:00	2.233761141
8/2/2012	14:00	2.195508021
8/2/2012	15:00	2.120505793
8/2/2012	16:00	2.248631907
8/2/2012	17:00	2.480320856
8/2/2012	18:00	2.750853387
8/2/2012	19:00	3.081192068
8/2/2012	20:00	3.36141934
8/2/2012	21:00	3.279734848
8/2/2012	22:00	2.601176471
8/2/2012	23:00	2.055329768
8/3/2012	0:00	1.366354724
8/3/2012	1:00	0.943981729
8/3/2012	2:00	0.810681818
8/3/2012	3:00	0.797317291
8/3/2012	4:00	0.889286988
8/3/2012	5:00	1.501356952
8/3/2012	6:00	2.989942068
8/3/2012	7:00	3.248946078
8/3/2012	8:00	2.733426916
8/3/2012	9:00	2.698513815
8/3/2012	10:00	2.70401738
8/3/2012	11:00	2.483594029
8/3/2012	12:00	2.347279412
8/3/2012	13:00	2.233761141
8/3/2012	14:00	2.195508021
8/3/2012	15:00	2.120505793
8/3/2012	16:00	2.248631907
8/3/2012	17:00	2.480320856
8/3/2012	18:00	2.750853387
8/3/2012	19:00	3.081192068
8/3/2012	20:00	3.36141934

8/3/2012	21:00	3.279734848
8/3/2012	22:00	2.601176471
8/3/2012	23:00	2.055329768

C.2

;;EPASWMM Time Series Data

;;Enter name... Flow (cfs)

8/1/2012	0:00	0.703375668
8/1/2012	1:00	0.612624777
8/1/2012	2:00	0.748752228
8/1/2012	3:00	0.703375668
8/1/2012	4:00	0.612631462
8/1/2012	5:00	1.089079768
8/1/2012	6:00	2.06472148
8/1/2012	7:00	3.244487522
8/1/2012	8:00	3.743636364
8/1/2012	9:00	4.878025847
8/1/2012	10:00	4.741911765
8/1/2012	11:00	4.651147504
8/1/2012	12:00	3.335249554
8/1/2012	13:00	2.858792335
8/1/2012	14:00	2.49578877
8/1/2012	15:00	2.654590018
8/1/2012	16:00	3.199099822
8/1/2012	17:00	2.994906417
8/1/2012	18:00	3.312531194
8/1/2012	19:00	1.973928253
8/1/2012	20:00	1.406729055
8/1/2012	21:00	1.066390374
8/1/2012	22:00	0.612631462
8/1/2012	23:00	0.748765597
8/2/2012	0:00	0.703375668
8/2/2012	1:00	0.612624777
8/2/2012	2:00	0.748752228
8/2/2012	3:00	0.703375668
8/2/2012	4:00	0.612631462
8/2/2012	5:00	1.089079768
8/2/2012	6:00	2.06472148
8/2/2012	7:00	3.244487522
8/2/2012	8:00	3.743636364
8/2/2012	9:00	4.878025847
8/2/2012	10:00	4.741911765
8/2/2012	11:00	4.651147504
8/2/2012	12:00	3.335249554
8/2/2012	13:00	2.858792335
8/2/2012	14:00	2.49578877
8/2/2012	15:00	2.654590018
8/2/2012	16:00	3.199099822
8/2/2012	17:00	2.994906417
8/2/2012	18:00	3.312531194
8/2/2012	19:00	1.973928253
8/2/2012	20:00	1.406729055
8/2/2012	21:00	1.066390374
8/2/2012	22:00	0.612631462
8/2/2012	23:00	0.748765597
8/3/2012	0:00	0.703375668
8/3/2012	1:00	0.612624777
8/3/2012	2:00	0.748752228
8/3/2012	3:00	0.703375668
8/3/2012	4:00	0.612631462
8/3/2012	5:00	1.089079768
8/3/2012	6:00	2.06472148
8/3/2012	7:00	3.244487522
8/3/2012	8:00	3.743636364
8/3/2012	9:00	4.878025847
8/3/2012	10:00	4.741911765
8/3/2012	11:00	4.651147504
8/3/2012	12:00	3.335249554
8/3/2012	13:00	2.858792335
8/3/2012	14:00	2.49578877
8/3/2012	15:00	2.654590018
8/3/2012	16:00	3.199099822
8/3/2012	17:00	2.994906417
8/3/2012	18:00	3.312531194
8/3/2012	19:00	1.973928253

8/3/2012	20:00	1.406729055
8/3/2012	21:00	1.066390374
8/3/2012	22:00	0.612631462
8/3/2012	23:00	0.748765597

C.3

;;EPASWMM Time Series Data

;;Enter name... Flow (cfs)

8/1/2012	0:00	0.747620321
8/1/2012	1:00	0.583050357
8/1/2012	2:00	0.531918449
8/1/2012	3:00	0.513462567
8/1/2012	4:00	0.548520499
8/1/2012	5:00	0.809200089
8/1/2012	6:00	1.424993316
8/1/2012	7:00	1.565588235
8/1/2012	8:00	1.395196078
8/1/2012	9:00	1.395608289
8/1/2012	10:00	1.406432709
8/1/2012	11:00	1.308792335
8/1/2012	12:00	1.235260695
8/1/2012	13:00	1.185262923
8/1/2012	14:00	1.178440285
8/1/2012	15:00	1.134030749
8/1/2012	16:00	1.204425134
8/1/2012	17:00	1.286813725
8/1/2012	18:00	1.352860963
8/1/2012	19:00	1.479255793
8/1/2012	20:00	1.633351159
8/1/2012	21:00	1.603819073
8/1/2012	22:00	1.291254456
8/1/2012	23:00	1.018217469
8/2/2012	0:00	0.747620321
8/2/2012	1:00	0.583050357
8/2/2012	2:00	0.531918449
8/2/2012	3:00	0.513462567
8/2/2012	4:00	0.548520499
8/2/2012	5:00	0.809200089
8/2/2012	6:00	1.424993316
8/2/2012	7:00	1.565588235
8/2/2012	8:00	1.395196078
8/2/2012	9:00	1.395608289
8/2/2012	10:00	1.406432709
8/2/2012	11:00	1.308792335
8/2/2012	12:00	1.235260695
8/2/2012	13:00	1.185262923
8/2/2012	14:00	1.178440285
8/2/2012	15:00	1.134030749
8/2/2012	16:00	1.204425134
8/2/2012	17:00	1.286813725
8/2/2012	18:00	1.352860963
8/2/2012	19:00	1.479255793
8/2/2012	20:00	1.633351159
8/2/2012	21:00	1.603819073
8/2/2012	22:00	1.291254456
8/2/2012	23:00	1.018217469
8/3/2012	0:00	0.747620321
8/3/2012	1:00	0.583050357
8/3/2012	2:00	0.531918449
8/3/2012	3:00	0.513462567
8/3/2012	4:00	0.548520499
8/3/2012	5:00	0.809200089
8/3/2012	6:00	1.424993316
8/3/2012	7:00	1.565588235
8/3/2012	8:00	1.395196078
8/3/2012	9:00	1.395608289
8/3/2012	10:00	1.406432709
8/3/2012	11:00	1.308792335
8/3/2012	12:00	1.235260695
8/3/2012	13:00	1.185262923
8/3/2012	14:00	1.178440285
8/3/2012	15:00	1.134030749
8/3/2012	16:00	1.204425134
8/3/2012	17:00	1.286813725
8/3/2012	18:00	1.352860963

8/3/2012	19:00	1.479255793
8/3/2012	20:00	1.633351159
8/3/2012	21:00	1.603819073
8/3/2012	22:00	1.291254456
8/3/2012	23:00	1.018217469

C.7

;;EPASWMM Time Series Data

;;Enter name... Flow (cfs)

8/1/2012	0:00	0.452377451
8/1/2012	1:00	0.337248217
8/1/2012	2:00	0.302161319
8/1/2012	3:00	0.302067736
8/1/2012	4:00	0.381457219
8/1/2012	5:00	0.665374332
8/1/2012	6:00	1.357040998
8/1/2012	7:00	1.439044118
8/1/2012	8:00	1.1925
8/1/2012	9:00	1.17714795
8/1/2012	10:00	1.123816845
8/1/2012	11:00	1.026370321
8/1/2012	12:00	0.952930036
8/1/2012	13:00	0.854690285
8/1/2012	14:00	0.836261141
8/1/2012	15:00	0.818903743
8/1/2012	16:00	0.873074866
8/1/2012	17:00	0.925706328
8/1/2012	18:00	1.023618538
8/1/2012	19:00	1.153493761
8/1/2012	20:00	1.284953209
8/1/2012	21:00	1.266570856
8/1/2012	22:00	0.947332888
8/1/2012	23:00	0.638148396
8/2/2012	0:00	0.452377451
8/2/2012	1:00	0.337248217
8/2/2012	2:00	0.302161319
8/2/2012	3:00	0.302067736
8/2/2012	4:00	0.381457219
8/2/2012	5:00	0.665374332
8/2/2012	6:00	1.357040998
8/2/2012	7:00	1.439044118
8/2/2012	8:00	1.1925
8/2/2012	9:00	1.17714795
8/2/2012	10:00	1.123816845
8/2/2012	11:00	1.026370321
8/2/2012	12:00	0.952930036
8/2/2012	13:00	0.854690285
8/2/2012	14:00	0.836261141
8/2/2012	15:00	0.818903743
8/2/2012	16:00	0.873074866
8/2/2012	17:00	0.925706328
8/2/2012	18:00	1.023618538
8/2/2012	19:00	1.153493761
8/2/2012	20:00	1.284953209
8/2/2012	21:00	1.266570856
8/2/2012	22:00	0.947332888
8/2/2012	23:00	0.638148396
8/3/2012	0:00	0.452377451
8/3/2012	1:00	0.337248217
8/3/2012	2:00	0.302161319
8/3/2012	3:00	0.302067736
8/3/2012	4:00	0.381457219
8/3/2012	5:00	0.665374332
8/3/2012	6:00	1.357040998
8/3/2012	7:00	1.439044118
8/3/2012	8:00	1.1925
8/3/2012	9:00	1.17714795
8/3/2012	10:00	1.123816845
8/3/2012	11:00	1.026370321
8/3/2012	12:00	0.952930036
8/3/2012	13:00	0.854690285
8/3/2012	14:00	0.836261141
8/3/2012	15:00	0.818903743
8/3/2012	16:00	0.873074866

8/3/2012	17:00	0.925706328
8/3/2012	18:00	1.023618538
8/3/2012	19:00	1.153493761
8/3/2012	20:00	1.284953209
8/3/2012	21:00	1.266570856
8/3/2012	22:00	0.947332888
8/3/2012	23:00	0.638148396

H.1

;;EPASWMM Time Series Data

;;Enter name... Flow (cfs)

8/1/2012	0:00	3.815744207
8/1/2012	1:00	3.720688503
8/1/2012	2:00	3.466196524
8/1/2012	3:00	3.449050802
8/1/2012	4:00	4.110516934
8/1/2012	5:00	4.681561943
8/1/2012	6:00	9.369347148
8/1/2012	7:00	8.687393048
8/1/2012	8:00	8.946713458
8/1/2012	9:00	7.914627897
8/1/2012	10:00	8.719275847
8/1/2012	11:00	7.839884135
8/1/2012	12:00	8.409957665
8/1/2012	13:00	7.732676025
8/1/2012	14:00	7.996341355
8/1/2012	15:00	7.056221034
8/1/2012	16:00	6.932907754
8/1/2012	17:00	6.998718806
8/1/2012	18:00	6.588736631
8/1/2012	19:00	6.43962344
8/1/2012	20:00	6.96448975
8/1/2012	21:00	5.747896613
8/1/2012	22:00	5.321949643
8/1/2012	23:00	5.125617201
8/2/2012	0:00	3.815744207
8/2/2012	1:00	3.720688503
8/2/2012	2:00	3.466196524
8/2/2012	3:00	3.449050802
8/2/2012	4:00	4.110516934
8/2/2012	5:00	4.681561943
8/2/2012	6:00	9.369347148
8/2/2012	7:00	8.687393048
8/2/2012	8:00	8.946713458
8/2/2012	9:00	7.914627897
8/2/2012	10:00	8.719275847
8/2/2012	11:00	7.839884135
8/2/2012	12:00	8.409957665
8/2/2012	13:00	7.732676025
8/2/2012	14:00	7.996341355
8/2/2012	15:00	7.056221034
8/2/2012	16:00	6.932907754
8/2/2012	17:00	6.998718806
8/2/2012	18:00	6.588736631
8/2/2012	19:00	6.43962344
8/2/2012	20:00	6.96448975
8/2/2012	21:00	5.747896613
8/2/2012	22:00	5.321949643
8/2/2012	23:00	5.125617201
8/3/2012	0:00	3.815744207
8/3/2012	1:00	3.720688503
8/3/2012	2:00	3.466196524
8/3/2012	3:00	3.449050802
8/3/2012	4:00	4.110516934
8/3/2012	5:00	4.681561943
8/3/2012	6:00	9.369347148
8/3/2012	7:00	8.687393048
8/3/2012	8:00	8.946713458
8/3/2012	9:00	7.914627897
8/3/2012	10:00	8.719275847
8/3/2012	11:00	7.839884135
8/3/2012	12:00	8.409957665
8/3/2012	13:00	7.732676025
8/3/2012	14:00	7.996341355
8/3/2012	15:00	7.056221034

8/3/2012	16:00	6.932907754
8/3/2012	17:00	6.998718806
8/3/2012	18:00	6.588736631
8/3/2012	19:00	6.43962344
8/3/2012	20:00	6.96448975
8/3/2012	21:00	5.747896613
8/3/2012	22:00	5.321949643
8/3/2012	23:00	5.125617201

H.2

;;EPASWMM Time Series Data

;;Enter name... Flow (cfs)

8/1/2012	0:00	3.724496435
8/1/2012	1:00	3.815998217
8/1/2012	2:00	3.496512923
8/1/2012	3:00	3.492170232
8/1/2012	4:00	4.202682709
8/1/2012	5:00	4.230403298
8/1/2012	6:00	8.460356506
8/1/2012	7:00	7.002796346
8/1/2012	8:00	7.542974599
8/1/2012	9:00	5.824402852
8/1/2012	10:00	6.985766488
8/1/2012	11:00	6.09774287
8/1/2012	12:00	7.472444296
8/1/2012	13:00	7.009719251
8/1/2012	14:00	7.517085561
8/1/2012	15:00	6.310855615
8/1/2012	16:00	5.843841355
8/1/2012	17:00	5.935871212
8/1/2012	18:00	5.13853164
8/1/2012	19:00	5.287689394
8/1/2012	20:00	5.945929144
8/1/2012	21:00	4.602696078
8/1/2012	22:00	4.807234848
8/1/2012	23:00	5.053052585
8/2/2012	0:00	3.724496435
8/2/2012	1:00	3.815998217
8/2/2012	2:00	3.496512923
8/2/2012	3:00	3.492170232
8/2/2012	4:00	4.202682709
8/2/2012	5:00	4.230403298
8/2/2012	6:00	8.460356506
8/2/2012	7:00	7.002796346
8/2/2012	8:00	7.542974599
8/2/2012	9:00	5.824402852
8/2/2012	10:00	6.985766488
8/2/2012	11:00	6.09774287
8/2/2012	12:00	7.472444296
8/2/2012	13:00	7.009719251
8/2/2012	14:00	7.517085561
8/2/2012	15:00	6.310855615
8/2/2012	16:00	5.843841355
8/2/2012	17:00	5.935871212
8/2/2012	18:00	5.13853164
8/2/2012	19:00	5.287689394
8/2/2012	20:00	5.945929144
8/2/2012	21:00	4.602696078
8/2/2012	22:00	4.807234848
8/2/2012	23:00	5.053052585
8/3/2012	0:00	3.724496435
8/3/2012	1:00	3.815998217
8/3/2012	2:00	3.496512923
8/3/2012	3:00	3.492170232
8/3/2012	4:00	4.202682709
8/3/2012	5:00	4.230403298
8/3/2012	6:00	8.460356506
8/3/2012	7:00	7.002796346
8/3/2012	8:00	7.542974599
8/3/2012	9:00	5.824402852
8/3/2012	10:00	6.985766488
8/3/2012	11:00	6.09774287
8/3/2012	12:00	7.472444296
8/3/2012	13:00	7.009719251
8/3/2012	14:00	7.517085561

8/3/2012	15:00	6.310855615
8/3/2012	16:00	5.843841355
8/3/2012	17:00	5.935871212
8/3/2012	18:00	5.13853164
8/3/2012	19:00	5.287689394
8/3/2012	20:00	5.945929144
8/3/2012	21:00	4.602696078
8/3/2012	22:00	4.807234848
8/3/2012	23:00	5.053052585

H.3

;;EPASWMM Time Series Data

;;Enter name... Flow (cfs)

8/1/2012	0:00	1.621377005
8/1/2012	1:00	1.662709447
8/1/2012	2:00	1.527488859
8/1/2012	3:00	1.527488859
8/1/2012	4:00	1.857045455
8/1/2012	5:00	1.922631462
8/1/2012	6:00	3.859848485
8/1/2012	7:00	3.240692959
8/1/2012	8:00	3.421475045
8/1/2012	9:00	2.684008467
8/1/2012	10:00	3.153014706
8/1/2012	11:00	2.756838235
8/1/2012	12:00	3.327927807
8/1/2012	13:00	3.09847148
8/1/2012	14:00	3.311702317
8/1/2012	15:00	2.798513815
8/1/2012	16:00	2.607375223
8/1/2012	17:00	2.640512478
8/1/2012	18:00	2.310269608
8/1/2012	19:00	2.393112745
8/1/2012	20:00	2.700233957
8/1/2012	21:00	2.129487522
8/1/2012	22:00	2.15493984
8/1/2012	23:00	2.183928253
8/2/2012	0:00	1.621377005
8/2/2012	1:00	1.662709447
8/2/2012	2:00	1.527488859
8/2/2012	3:00	1.527488859
8/2/2012	4:00	1.857045455
8/2/2012	5:00	1.922631462
8/2/2012	6:00	3.859848485
8/2/2012	7:00	3.240692959
8/2/2012	8:00	3.421475045
8/2/2012	9:00	2.684008467
8/2/2012	10:00	3.153014706
8/2/2012	11:00	2.756838235
8/2/2012	12:00	3.327927807
8/2/2012	13:00	3.09847148
8/2/2012	14:00	3.311702317
8/2/2012	15:00	2.798513815
8/2/2012	16:00	2.607375223
8/2/2012	17:00	2.640512478
8/2/2012	18:00	2.310269608
8/2/2012	19:00	2.393112745
8/2/2012	20:00	2.700233957
8/2/2012	21:00	2.129487522
8/2/2012	22:00	2.15493984
8/2/2012	23:00	2.183928253
8/3/2012	0:00	1.621377005
8/3/2012	1:00	1.662709447
8/3/2012	2:00	1.527488859
8/3/2012	3:00	1.527488859
8/3/2012	4:00	1.857045455
8/3/2012	5:00	1.922631462
8/3/2012	6:00	3.859848485
8/3/2012	7:00	3.240692959
8/3/2012	8:00	3.421475045
8/3/2012	9:00	2.684008467
8/3/2012	10:00	3.153014706
8/3/2012	11:00	2.756838235
8/3/2012	12:00	3.327927807

8/3/2012	13:00	3.09847148
8/3/2012	14:00	3.311702317
8/3/2012	15:00	2.798513815
8/3/2012	16:00	2.607375223
8/3/2012	17:00	2.640512478
8/3/2012	18:00	2.310269608
8/3/2012	19:00	2.393112745
8/3/2012	20:00	2.700233957
8/3/2012	21:00	2.129487522
8/3/2012	22:00	2.15493984
8/3/2012	23:00	2.183928253

H.4
;;EPASWMM Time Series Data
;;Enter name... Flow (cfs)

8/1/2012	0:00	1.262887701
8/1/2012	1:00	0.913273173
8/1/2012	2:00	0.804449643
8/1/2012	3:00	0.799451872
8/1/2012	4:00	0.966541889
8/1/2012	5:00	1.667234848
8/1/2012	6:00	3.373926025
8/1/2012	7:00	3.603475936
8/1/2012	8:00	2.997865419
8/1/2012	9:00	2.955320856
8/1/2012	10:00	2.868912656
8/1/2012	11:00	2.624300357
8/1/2012	12:00	2.455374332
8/1/2012	13:00	2.250737522
8/1/2012	14:00	2.206942959
8/1/2012	15:00	2.149409537
8/1/2012	16:00	2.285786542
8/1/2012	17:00	2.460889037
8/1/2012	18:00	2.724237968
8/1/2012	19:00	3.068928253
8/1/2012	20:00	3.394879679
8/1/2012	21:00	3.334846257
8/1/2012	22:00	2.550314171
8/1/2012	23:00	1.830151515
8/2/2012	0:00	1.262887701
8/2/2012	1:00	0.913273173
8/2/2012	2:00	0.804449643
8/2/2012	3:00	0.799451872
8/2/2012	4:00	0.966541889
8/2/2012	5:00	1.667234848
8/2/2012	6:00	3.373926025
8/2/2012	7:00	3.603475936
8/2/2012	8:00	2.997865419
8/2/2012	9:00	2.955320856
8/2/2012	10:00	2.868912656
8/2/2012	11:00	2.624300357
8/2/2012	12:00	2.455374332
8/2/2012	13:00	2.250737522
8/2/2012	14:00	2.206942959
8/2/2012	15:00	2.149409537
8/2/2012	16:00	2.285786542
8/2/2012	17:00	2.460889037
8/2/2012	18:00	2.724237968
8/2/2012	19:00	3.068928253
8/2/2012	20:00	3.394879679
8/2/2012	21:00	3.334846257
8/2/2012	22:00	2.550314171
8/2/2012	23:00	1.830151515
8/3/2012	0:00	1.262887701
8/3/2012	1:00	0.913273173
8/3/2012	2:00	0.804449643
8/3/2012	3:00	0.799451872
8/3/2012	4:00	0.966541889
8/3/2012	5:00	1.667234848
8/3/2012	6:00	3.373926025
8/3/2012	7:00	3.603475936
8/3/2012	8:00	2.997865419
8/3/2012	9:00	2.955320856
8/3/2012	10:00	2.868912656
8/3/2012	11:00	2.624300357

8/3/2012	12:00	2.455374332
8/3/2012	13:00	2.250737522
8/3/2012	14:00	2.206942959
8/3/2012	15:00	2.149409537
8/3/2012	16:00	2.285786542
8/3/2012	17:00	2.460889037
8/3/2012	18:00	2.724237968
8/3/2012	19:00	3.068928253
8/3/2012	20:00	3.394879679
8/3/2012	21:00	3.334846257
8/3/2012	22:00	2.550314171
8/3/2012	23:00	1.830151515

H.5

;;EPASWMM Time Series Data

;;Enter name... Flow (cfs)

8/1/2012	0:00	0.511430481
8/1/2012	1:00	0.381065062
8/1/2012	2:00	0.340953654
8/1/2012	3:00	0.340953654
8/1/2012	4:00	0.431205437
8/1/2012	5:00	0.752103387
8/1/2012	6:00	1.534289216
8/1/2012	7:00	1.624543226
8/1/2012	8:00	1.343756684
8/1/2012	9:00	1.32370098
8/1/2012	10:00	1.263533868
8/1/2012	11:00	1.153224153
8/1/2012	12:00	1.072999109
8/1/2012	13:00	0.962691622
8/1/2012	14:00	0.942635918
8/1/2012	15:00	0.922580214
8/1/2012	16:00	0.982747326
8/1/2012	17:00	1.042916667
8/1/2012	18:00	1.153224153
8/1/2012	19:00	1.303645276
8/1/2012	20:00	1.454066399
8/1/2012	21:00	1.434008467
8/1/2012	22:00	1.072999109
8/1/2012	23:00	0.722018717
8/2/2012	0:00	0.511430481
8/2/2012	1:00	0.381065062
8/2/2012	2:00	0.340953654
8/2/2012	3:00	0.340953654
8/2/2012	4:00	0.431205437
8/2/2012	5:00	0.752103387
8/2/2012	6:00	1.534289216
8/2/2012	7:00	1.624543226
8/2/2012	8:00	1.343756684
8/2/2012	9:00	1.32370098
8/2/2012	10:00	1.263533868
8/2/2012	11:00	1.153224153
8/2/2012	12:00	1.072999109
8/2/2012	13:00	0.962691622
8/2/2012	14:00	0.942635918
8/2/2012	15:00	0.922580214
8/2/2012	16:00	0.982747326
8/2/2012	17:00	1.042916667
8/2/2012	18:00	1.153224153
8/2/2012	19:00	1.303645276
8/2/2012	20:00	1.454066399
8/2/2012	21:00	1.434008467
8/2/2012	22:00	1.072999109
8/2/2012	23:00	0.722018717
8/3/2012	0:00	0.511430481
8/3/2012	1:00	0.381065062
8/3/2012	2:00	0.340953654
8/3/2012	3:00	0.340953654
8/3/2012	4:00	0.431205437
8/3/2012	5:00	0.752103387
8/3/2012	6:00	1.534289216
8/3/2012	7:00	1.624543226
8/3/2012	8:00	1.343756684
8/3/2012	9:00	1.32370098
8/3/2012	10:00	1.263533868

8/3/2012	11:00	1.153224153
8/3/2012	12:00	1.072999109
8/3/2012	13:00	0.962691622
8/3/2012	14:00	0.942635918
8/3/2012	15:00	0.922580214
8/3/2012	16:00	0.982747326
8/3/2012	17:00	1.042916667
8/3/2012	18:00	1.153224153
8/3/2012	19:00	1.303645276
8/3/2012	20:00	1.454066399
8/3/2012	21:00	1.434008467
8/3/2012	22:00	1.072999109
8/3/2012	23:00	0.722018717

H.6

;;EPASWMM Time Series Data

;;Enter name... Flow (cfs)

8/1/2012	0:00	0.76125
8/1/2012	1:00	0.559113191
8/1/2012	2:00	0.499565508
8/1/2012	3:00	0.496951872
8/1/2012	4:00	0.607602496
8/1/2012	5:00	1.053609626
8/1/2012	6:00	2.136815954
8/1/2012	7:00	2.29337344
8/1/2012	8:00	1.922992424
8/1/2012	9:00	1.917462121
8/1/2012	10:00	1.848796791
8/1/2012	11:00	1.695534759
8/1/2012	12:00	1.563714349
8/1/2012	13:00	1.417277184
8/1/2012	14:00	1.38313057
8/1/2012	15:00	1.353963904
8/1/2012	16:00	1.447914439
8/1/2012	17:00	1.54141934
8/1/2012	18:00	1.705548128
8/1/2012	19:00	1.890944742
8/1/2012	20:00	2.084255793
8/1/2012	21:00	2.044817291
8/1/2012	22:00	1.545926916
8/1/2012	23:00	1.086753565
8/2/2012	0:00	0.76125
8/2/2012	1:00	0.559113191
8/2/2012	2:00	0.499565508
8/2/2012	3:00	0.496951872
8/2/2012	4:00	0.607602496
8/2/2012	5:00	1.053609626
8/2/2012	6:00	2.136815954
8/2/2012	7:00	2.29337344
8/2/2012	8:00	1.922992424
8/2/2012	9:00	1.917462121
8/2/2012	10:00	1.848796791
8/2/2012	11:00	1.695534759
8/2/2012	12:00	1.563714349
8/2/2012	13:00	1.417277184
8/2/2012	14:00	1.38313057
8/2/2012	15:00	1.353963904
8/2/2012	16:00	1.447914439
8/2/2012	17:00	1.54141934
8/2/2012	18:00	1.705548128
8/2/2012	19:00	1.890944742
8/2/2012	20:00	2.084255793
8/2/2012	21:00	2.044817291
8/2/2012	22:00	1.545926916
8/2/2012	23:00	1.086753565
8/3/2012	0:00	0.76125
8/3/2012	1:00	0.559113191
8/3/2012	2:00	0.499565508
8/3/2012	3:00	0.496951872
8/3/2012	4:00	0.607602496
8/3/2012	5:00	1.053609626
8/3/2012	6:00	2.136815954
8/3/2012	7:00	2.29337344
8/3/2012	8:00	1.922992424
8/3/2012	9:00	1.917462121

8/3/2012	10:00	1.848796791
8/3/2012	11:00	1.695534759
8/3/2012	12:00	1.563714349
8/3/2012	13:00	1.417277184
8/3/2012	14:00	1.38313057
8/3/2012	15:00	1.353963904
8/3/2012	16:00	1.447914439
8/3/2012	17:00	1.54141934
8/3/2012	18:00	1.705548128
8/3/2012	19:00	1.890944742
8/3/2012	20:00	2.084255793
8/3/2012	21:00	2.044817291
8/3/2012	22:00	1.545926916
8/3/2012	23:00	1.086753565

H.7

;;EPASWMM Time Series Data

;;Enter name... Flow (cfs)

8/1/2012	0:00	0.286675579
8/1/2012	1:00	0.231822638
8/1/2012	2:00	0.248714349
8/1/2012	3:00	0.239373886
8/1/2012	4:00	0.245735294
8/1/2012	5:00	0.432843137
8/1/2012	6:00	0.850684046
8/1/2012	7:00	1.118571747
8/1/2012	8:00	1.143409091
8/1/2012	9:00	1.371350267
8/1/2012	10:00	1.326635472
8/1/2012	11:00	1.277350713
8/1/2012	12:00	0.984222371
8/1/2012	13:00	0.855543672
8/1/2012	14:00	0.775256239
8/1/2012	15:00	0.802384135
8/1/2012	16:00	0.931160873
8/1/2012	17:00	0.905824421
8/1/2012	18:00	1.001811497
8/1/2012	19:00	0.768008021
8/1/2012	20:00	0.692990196
8/1/2012	21:00	0.617372995
8/1/2012	22:00	0.423805704
8/1/2012	23:00	0.354445187
8/2/2012	0:00	0.286675579
8/2/2012	1:00	0.231822638
8/2/2012	2:00	0.248714349
8/2/2012	3:00	0.239373886
8/2/2012	4:00	0.245735294
8/2/2012	5:00	0.432843137
8/2/2012	6:00	0.850684046
8/2/2012	7:00	1.118571747
8/2/2012	8:00	1.143409091
8/2/2012	9:00	1.371350267
8/2/2012	10:00	1.326635472
8/2/2012	11:00	1.277350713
8/2/2012	12:00	0.984222371
8/2/2012	13:00	0.855543672
8/2/2012	14:00	0.775256239
8/2/2012	15:00	0.802384135
8/2/2012	16:00	0.931160873
8/2/2012	17:00	0.905824421
8/2/2012	18:00	1.001811497
8/2/2012	19:00	0.768008021
8/2/2012	20:00	0.692990196
8/2/2012	21:00	0.617372995
8/2/2012	22:00	0.423805704
8/2/2012	23:00	0.354445187
8/3/2012	0:00	0.286675579
8/3/2012	1:00	0.231822638
8/3/2012	2:00	0.248714349
8/3/2012	3:00	0.239373886
8/3/2012	4:00	0.245735294
8/3/2012	5:00	0.432843137
8/3/2012	6:00	0.850684046
8/3/2012	7:00	1.118571747
8/3/2012	8:00	1.143409091

8/3/2012	9:00	1.371350267
8/3/2012	10:00	1.326635472
8/3/2012	11:00	1.277350713
8/3/2012	12:00	0.984222371
8/3/2012	13:00	0.855543672
8/3/2012	14:00	0.775256239
8/3/2012	15:00	0.802384135
8/3/2012	16:00	0.931160873
8/3/2012	17:00	0.905824421
8/3/2012	18:00	1.001811497
8/3/2012	19:00	0.768008021
8/3/2012	20:00	0.692990196
8/3/2012	21:00	0.617372995
8/3/2012	22:00	0.423805704
8/3/2012	23:00	0.354445187

;;EPASWMM Time Series Data
;;Enter name... Flow (cfs)

8/1/2012	0:00	0.879391711
8/1/2012	1:00	0.580365419
8/1/2012	2:00	0.495445633
8/1/2012	3:00	0.477932264
8/1/2012	4:00	0.45668672
8/1/2012	5:00	0.743761141
8/1/2012	6:00	1.427720588
8/1/2012	7:00	1.671399287
8/1/2012	8:00	1.501925134
8/1/2012	9:00	1.563738859
8/1/2012	10:00	1.637785205
8/1/2012	11:00	1.532967914
8/1/2012	12:00	1.401131907
8/1/2012	13:00	1.387482175
8/1/2012	14:00	1.347751783
8/1/2012	15:00	1.302132353
8/1/2012	16:00	1.400269608
8/1/2012	17:00	1.562199198
8/1/2012	18:00	1.736405971
8/1/2012	19:00	1.816127451
8/1/2012	20:00	1.891731283
8/1/2012	21:00	1.806203209
8/1/2012	22:00	1.499534314
8/1/2012	23:00	1.363090463
8/2/2012	0:00	0.879391711
8/2/2012	1:00	0.580365419
8/2/2012	2:00	0.495445633
8/2/2012	3:00	0.477932264
8/2/2012	4:00	0.45668672
8/2/2012	5:00	0.743761141
8/2/2012	6:00	1.427720588
8/2/2012	7:00	1.671399287
8/2/2012	8:00	1.501925134
8/2/2012	9:00	1.563738859
8/2/2012	10:00	1.637785205
8/2/2012	11:00	1.532967914
8/2/2012	12:00	1.401131907
8/2/2012	13:00	1.387482175
8/2/2012	14:00	1.347751783
8/2/2012	15:00	1.302132353
8/2/2012	16:00	1.400269608
8/2/2012	17:00	1.562199198
8/2/2012	18:00	1.736405971
8/2/2012	19:00	1.816127451
8/2/2012	20:00	1.891731283
8/2/2012	21:00	1.806203209
8/2/2012	22:00	1.499534314
8/2/2012	23:00	1.363090463
8/3/2012	0:00	0.879391711
8/3/2012	1:00	0.580365419
8/3/2012	2:00	0.495445633
8/3/2012	3:00	0.477932264
8/3/2012	4:00	0.45668672
8/3/2012	5:00	0.743761141
8/3/2012	6:00	1.427720588
8/3/2012	7:00	1.671399287
8/3/2012	8:00	1.501925134

8/3/2012	9:00	1.563738859
8/3/2012	10:00	1.637785205
8/3/2012	11:00	1.532967914
8/3/2012	12:00	1.401131907
8/3/2012	13:00	1.387482175
8/3/2012	14:00	1.347751783
8/3/2012	15:00	1.302132353
8/3/2012	16:00	1.400269608
8/3/2012	17:00	1.562199198
8/3/2012	18:00	1.736405971
8/3/2012	19:00	1.816127451
8/3/2012	20:00	1.891731283
8/3/2012	21:00	1.806203209
8/3/2012	22:00	1.499534314
8/3/2012	23:00	1.363090463

H.9

;;EPASWMM Time Series Data

;;Enter name... Flow (cfs)

8/1/2012	0:00	0.707272727
8/1/2012	1:00	0.540011141
8/1/2012	2:00	0.512678253
8/1/2012	3:00	0.506002674
8/1/2012	4:00	0.599206774
8/1/2012	5:00	1.048157308
8/1/2012	6:00	2.115142602
8/1/2012	7:00	2.395251783
8/1/2012	8:00	2.137176916
8/1/2012	9:00	2.280378788
8/1/2012	10:00	2.189315954
8/1/2012	11:00	2.045733066
8/1/2012	12:00	1.757437611
8/1/2012	13:00	1.557114528
8/1/2012	14:00	1.480035651
8/1/2012	15:00	1.479719251
8/1/2012	16:00	1.630857843
8/1/2012	17:00	1.671856061
8/1/2012	18:00	1.848814617
8/1/2012	19:00	1.829487522
8/1/2012	20:00	1.923638592
8/1/2012	21:00	1.849895276
8/1/2012	22:00	1.356927362
8/1/2012	23:00	0.962575758
8/2/2012	0:00	0.707272727
8/2/2012	1:00	0.540011141
8/2/2012	2:00	0.512678253
8/2/2012	3:00	0.506002674
8/2/2012	4:00	0.599206774
8/2/2012	5:00	1.048157308
8/2/2012	6:00	2.115142602
8/2/2012	7:00	2.395251783
8/2/2012	8:00	2.137176916
8/2/2012	9:00	2.280378788
8/2/2012	10:00	2.189315954
8/2/2012	11:00	2.045733066
8/2/2012	12:00	1.757437611
8/2/2012	13:00	1.557114528
8/2/2012	14:00	1.480035651
8/2/2012	15:00	1.479719251
8/2/2012	16:00	1.630857843
8/2/2012	17:00	1.671856061
8/2/2012	18:00	1.848814617
8/2/2012	19:00	1.829487522
8/2/2012	20:00	1.923638592
8/2/2012	21:00	1.849895276
8/2/2012	22:00	1.356927362
8/2/2012	23:00	0.962575758
8/3/2012	0:00	0.707272727
8/3/2012	1:00	0.540011141
8/3/2012	2:00	0.512678253
8/3/2012	3:00	0.506002674
8/3/2012	4:00	0.599206774
8/3/2012	5:00	1.048157308
8/3/2012	6:00	2.115142602
8/3/2012	7:00	2.395251783

8/3/2012	8:00	2.137176916
8/3/2012	9:00	2.280378788
8/3/2012	10:00	2.189315954
8/3/2012	11:00	2.045733066
8/3/2012	12:00	1.757437611
8/3/2012	13:00	1.557114528
8/3/2012	14:00	1.480035651
8/3/2012	15:00	1.479719251
8/3/2012	16:00	1.630857843
8/3/2012	17:00	1.671856061
8/3/2012	18:00	1.848814617
8/3/2012	19:00	1.829487522
8/3/2012	20:00	1.923638592
8/3/2012	21:00	1.849895276
8/3/2012	22:00	1.356927362
8/3/2012	23:00	0.962575758

H.10

;;EPASWMM Time Series Data

;;Enter name... Flow (cfs)

8/1/2012	0:00	0.707272727
8/1/2012	1:00	0.540011141
8/1/2012	2:00	0.512678253
8/1/2012	3:00	0.506002674
8/1/2012	4:00	0.599206774
8/1/2012	5:00	1.048157308
8/1/2012	6:00	2.115142602
8/1/2012	7:00	2.395251783
8/1/2012	8:00	2.137176916
8/1/2012	9:00	2.280378788
8/1/2012	10:00	2.189315954
8/1/2012	11:00	2.045733066
8/1/2012	12:00	1.757437611
8/1/2012	13:00	1.557114528
8/1/2012	14:00	1.480035651
8/1/2012	15:00	1.479719251
8/1/2012	16:00	1.630857843
8/1/2012	17:00	1.671856061
8/1/2012	18:00	1.848814617
8/1/2012	19:00	1.829487522
8/1/2012	20:00	1.923638592
8/1/2012	21:00	1.849895276
8/1/2012	22:00	1.356927362
8/1/2012	23:00	0.962575758
8/2/2012	0:00	0.707272727
8/2/2012	1:00	0.540011141
8/2/2012	2:00	0.512678253
8/2/2012	3:00	0.506002674
8/2/2012	4:00	0.599206774
8/2/2012	5:00	1.048157308
8/2/2012	6:00	2.115142602
8/2/2012	7:00	2.395251783
8/2/2012	8:00	2.137176916
8/2/2012	9:00	2.280378788
8/2/2012	10:00	2.189315954
8/2/2012	11:00	2.045733066
8/2/2012	12:00	1.757437611
8/2/2012	13:00	1.557114528
8/2/2012	14:00	1.480035651
8/2/2012	15:00	1.479719251
8/2/2012	16:00	1.630857843
8/2/2012	17:00	1.671856061
8/2/2012	18:00	1.848814617
8/2/2012	19:00	1.829487522
8/2/2012	20:00	1.923638592
8/2/2012	21:00	1.849895276
8/2/2012	22:00	1.356927362
8/2/2012	23:00	0.962575758
8/3/2012	0:00	0.707272727
8/3/2012	1:00	0.540011141
8/3/2012	2:00	0.512678253
8/3/2012	3:00	0.506002674
8/3/2012	4:00	0.599206774
8/3/2012	5:00	1.048157308
8/3/2012	6:00	2.115142602

8/3/2012	7:00	2.395251783
8/3/2012	8:00	2.137176916
8/3/2012	9:00	2.280378788
8/3/2012	10:00	2.189315954
8/3/2012	11:00	2.045733066
8/3/2012	12:00	1.757437611
8/3/2012	13:00	1.557114528
8/3/2012	14:00	1.480035651
8/3/2012	15:00	1.479719251
8/3/2012	16:00	1.630857843
8/3/2012	17:00	1.671856061
8/3/2012	18:00	1.848814617
8/3/2012	19:00	1.829487522
8/3/2012	20:00	1.923638592
8/3/2012	21:00	1.849895276
8/3/2012	22:00	1.356927362
8/3/2012	23:00	0.962575758

H.11

;;EPASWMM Time Series Data

;;Enter name... Flow (cfs)

8/1/2012	0:00	0.153937166
8/1/2012	1:00	0.09662656
8/1/2012	2:00	0.078175134
8/1/2012	3:00	0.07491533
8/1/2012	4:00	0.065695187
8/1/2012	5:00	0.102453209
8/1/2012	6:00	0.191238859
8/1/2012	7:00	0.22276738
8/1/2012	8:00	0.195492424
8/1/2012	9:00	0.194010695
8/1/2012	10:00	0.216457219
8/1/2012	11:00	0.201377005
8/1/2012	12:00	0.196261141
8/1/2012	13:00	0.207261586
8/1/2012	14:00	0.204962121
8/1/2012	15:00	0.19370098
8/1/2012	16:00	0.203852496
8/1/2012	17:00	0.239269162
8/1/2012	18:00	0.266575312
8/1/2012	19:00	0.294400624
8/1/2012	20:00	0.310002228
8/1/2012	21:00	0.297110071
8/1/2012	22:00	0.258201872
8/1/2012	23:00	0.248150624
8/2/2012	0:00	0.153937166
8/2/2012	1:00	0.09662656
8/2/2012	2:00	0.078175134
8/2/2012	3:00	0.07491533
8/2/2012	4:00	0.065695187
8/2/2012	5:00	0.102453209
8/2/2012	6:00	0.191238859
8/2/2012	7:00	0.22276738
8/2/2012	8:00	0.195492424
8/2/2012	9:00	0.194010695
8/2/2012	10:00	0.216457219
8/2/2012	11:00	0.201377005
8/2/2012	12:00	0.196261141
8/2/2012	13:00	0.207261586
8/2/2012	14:00	0.204962121
8/2/2012	15:00	0.19370098
8/2/2012	16:00	0.203852496
8/2/2012	17:00	0.239269162
8/2/2012	18:00	0.266575312
8/2/2012	19:00	0.294400624
8/2/2012	20:00	0.310002228
8/2/2012	21:00	0.297110071
8/2/2012	22:00	0.258201872
8/2/2012	23:00	0.248150624
8/3/2012	0:00	0.153937166
8/3/2012	1:00	0.09662656
8/3/2012	2:00	0.078175134
8/3/2012	3:00	0.07491533
8/3/2012	4:00	0.065695187

8/3/2012	5:00	0.102453209
8/3/2012	6:00	0.191238859
8/3/2012	7:00	0.22276738
8/3/2012	8:00	0.195492424
8/3/2012	9:00	0.194010695
8/3/2012	10:00	0.216457219
8/3/2012	11:00	0.201377005
8/3/2012	12:00	0.196261141
8/3/2012	13:00	0.207261586
8/3/2012	14:00	0.204962121
8/3/2012	15:00	0.19370098
8/3/2012	16:00	0.203852496
8/3/2012	17:00	0.239269162
8/3/2012	18:00	0.266575312
8/3/2012	19:00	0.294400624
8/3/2012	20:00	0.310002228
8/3/2012	21:00	0.297110071
8/3/2012	22:00	0.258201872
8/3/2012	23:00	0.248150624

H.12

;;EPASWMM Time Series Data

;;Enter name... Flow (cfs)

8/1/2012	0:00	0.296207665
	1:00	0.243696524
	2:00	0.270149287
	3:00	0.258364528
	4:00	0.254826203
	5:00	0.449810606
	6:00	0.876833779
	7:00	1.203295455
	8:00	1.270608289
	9:00	1.560797683
	10:00	1.512085561
	11:00	1.464026292
	12:00	1.104434046
	13:00	0.956198752
	14:00	0.857459893
	15:00	0.894258021
	16:00	1.049041889
	17:00	1.009362745
	18:00	1.116350267
	19:00	0.80206328
	20:00	0.688135027
	21:00	0.595289661
	22:00	0.397295009
	23:00	0.354739305
8/2/2012	0:00	0.296207665
	1:00	0.243696524
	2:00	0.270149287
	3:00	0.258364528
	4:00	0.254826203
	5:00	0.449810606
	6:00	0.876833779
	7:00	1.203295455
	8:00	1.270608289
	9:00	1.560797683
	10:00	1.512085561
	11:00	1.464026292
	12:00	1.104434046
	13:00	0.956198752
	14:00	0.857459893
	15:00	0.894258021
	16:00	1.049041889
	17:00	1.009362745
	18:00	1.116350267
	19:00	0.80206328
	20:00	0.688135027
	21:00	0.595289661
	22:00	0.397295009
	23:00	0.354739305
8/3/2012	0:00	0.296207665
	1:00	0.243696524
	2:00	0.270149287
	3:00	0.258364528

	4:00	0.254826203
	5:00	0.449810606
	6:00	0.876833779
	7:00	1.203295455
	8:00	1.270608289
	9:00	1.560797683
	10:00	1.512085561
	11:00	1.464026292
	12:00	1.104434046
	13:00	0.956198752
	14:00	0.857459893
	15:00	0.894258021
	16:00	1.049041889
	17:00	1.009362745
	18:00	1.116350267
	19:00	0.80206328
	20:00	0.688135027
	21:00	0.595289661
	22:00	0.397295009
	23:00	0.354739305

J.1
;;EPASWMM Time Series Data
;;Enter name... Flow (cfs)

8/1/2012	0:00	0.465147059
	1:00	0.346579768
	2:00	0.310098039
	3:00	0.310098039
	4:00	0.392183601
	5:00	0.684039661
	6:00	1.395443405
	7:00	1.477526738
	8:00	1.222152406
	9:00	1.203910428
	10:00	1.149188948
	11:00	1.048861408
	12:00	0.97589795
	13:00	0.875572638
	14:00	0.85733066
	15:00	0.839088681
	16:00	0.893812389
	17:00	0.948536096
	18:00	1.048861408
	19:00	1.185670677
	20:00	1.322477718
	21:00	1.304237968
	22:00	0.97589795
	23:00	0.656680036
8/2/2012	0:00	0.465147059
	1:00	0.346579768
	2:00	0.310098039
	3:00	0.310098039
	4:00	0.392183601
	5:00	0.684039661
	6:00	1.395443405
	7:00	1.477526738
	8:00	1.222152406
	9:00	1.203910428
	10:00	1.149188948
	11:00	1.048861408
	12:00	0.97589795
	13:00	0.875572638
	14:00	0.85733066
	15:00	0.839088681
	16:00	0.893812389
	17:00	0.948536096
	18:00	1.048861408
	19:00	1.185670677
	20:00	1.322477718
	21:00	1.304237968
	22:00	0.97589795
	23:00	0.656680036
8/3/2012	0:00	0.465147059
	1:00	0.346579768
	2:00	0.310098039

	3:00	0.310098039
	4:00	0.392183601
	5:00	0.684039661
	6:00	1.395443405
	7:00	1.477526738
	8:00	1.222152406
	9:00	1.203910428
	10:00	1.149188948
	11:00	1.048861408
	12:00	0.97589795
	13:00	0.875572638
	14:00	0.85733066
	15:00	0.839088681
	16:00	0.893812389
	17:00	0.948536096
	18:00	1.048861408
	19:00	1.185670677
	20:00	1.322477718
	21:00	1.304237968
	22:00	0.97589795
	23:00	0.656680036

J.2

;;EPASWMM Time Series Data

;;Enter name... Flow (cfs)

8/1/2012	0:00	0.04247549
	1:00	0.031648841
	2:00	0.028315508
	3:00	0.028315508
	4:00	0.035811052
	5:00	0.062462121
	6:00	0.127424242
	7:00	0.134919786
	8:00	0.111599822
	9:00	0.109935383
	10:00	0.104937611
	11:00	0.095775401
	12:00	0.089113191
	13:00	0.079953209
	14:00	0.078286542
	15:00	0.076622103
	16:00	0.081617647
	17:00	0.086615419
	18:00	0.095775401
	19:00	0.108268717
	20:00	0.120762032
	21:00	0.119095365
	22:00	0.089113191
	23:00	0.059964349
8/2/2012	0:00	0.04247549
	1:00	0.031648841
	2:00	0.028315508
	3:00	0.028315508
	4:00	0.035811052
	5:00	0.062462121
	6:00	0.127424242
	7:00	0.134919786
	8:00	0.111599822
	9:00	0.109935383
	10:00	0.104937611
	11:00	0.095775401
	12:00	0.089113191
	13:00	0.079953209
	14:00	0.078286542
	15:00	0.076622103
	16:00	0.081617647
	17:00	0.086615419
	18:00	0.095775401
	19:00	0.108268717
	20:00	0.120762032
	21:00	0.119095365
	22:00	0.089113191
	23:00	0.059964349
8/3/2012	0:00	0.04247549
	1:00	0.031648841
	2:00	0.028315508

3:00	0.028315508
4:00	0.035811052
5:00	0.062462121
6:00	0.127424242
7:00	0.134919786
8:00	0.111599822
9:00	0.109935383
10:00	0.104937611
11:00	0.095775401
12:00	0.089113191
13:00	0.079953209
14:00	0.078286542
15:00	0.076622103
16:00	0.081617647
17:00	0.086615419
18:00	0.095775401
19:00	0.108268717
20:00	0.120762032
21:00	0.119095365
22:00	0.089113191
23:00	0.059964349

K.1

;;EPASWMM Time Series Data

;;Enter name... Flow (cfs)

8/1/2012	0:00	1.18828877
8/1/2012	1:00	0.861864973
8/1/2012	2:00	0.760365419
8/1/2012	3:00	0.756122995
8/1/2012	4:00	0.918453654
8/1/2012	5:00	1.586163102
8/1/2012	6:00	3.212644831
8/1/2012	7:00	3.428023619
8/1/2012	8:00	2.850142602
8/1/2012	9:00	2.809471925
8/1/2012	10:00	2.722468806
8/1/2012	11:00	2.489759358
8/1/2012	12:00	2.328137255
8/1/2012	13:00	2.129378342
8/1/2012	14:00	2.087647059
8/1/2012	15:00	2.034244652
8/1/2012	16:00	2.163683155
8/1/2012	17:00	2.326011586
8/1/2012	18:00	2.574634581
8/1/2012	19:00	2.901414884
8/1/2012	20:00	3.21228164
8/1/2012	21:00	3.156758021
8/1/2012	22:00	2.408767825
8/1/2012	23:00	1.717713904
8/2/2012	0:00	1.18828877
8/2/2012	1:00	0.861864973
8/2/2012	2:00	0.760365419
8/2/2012	3:00	0.756122995
8/2/2012	4:00	0.918453654
8/2/2012	5:00	1.586163102
8/2/2012	6:00	3.212644831
8/2/2012	7:00	3.428023619
8/2/2012	8:00	2.850142602
8/2/2012	9:00	2.809471925
8/2/2012	10:00	2.722468806
8/2/2012	11:00	2.489759358
8/2/2012	12:00	2.328137255
8/2/2012	13:00	2.129378342
8/2/2012	14:00	2.087647059
8/2/2012	15:00	2.034244652
8/2/2012	16:00	2.163683155
8/2/2012	17:00	2.326011586
8/2/2012	18:00	2.574634581
8/2/2012	19:00	2.901414884
8/2/2012	20:00	3.21228164
8/2/2012	21:00	3.156758021
8/2/2012	22:00	2.408767825
8/2/2012	23:00	1.717713904
8/3/2012	0:00	1.18828877
8/3/2012	1:00	0.861864973

8/3/2012	2:00	0.760365419
8/3/2012	3:00	0.756122995
8/3/2012	4:00	0.918453654
8/3/2012	5:00	1.586163102
8/3/2012	6:00	3.212644831
8/3/2012	7:00	3.428023619
8/3/2012	8:00	2.850142602
8/3/2012	9:00	2.809471925
8/3/2012	10:00	2.722468806
8/3/2012	11:00	2.489759358
8/3/2012	12:00	2.328137255
8/3/2012	13:00	2.129378342
8/3/2012	14:00	2.087647059
8/3/2012	15:00	2.034244652
8/3/2012	16:00	2.163683155
8/3/2012	17:00	2.326011586
8/3/2012	18:00	2.574634581
8/3/2012	19:00	2.901414884
8/3/2012	20:00	3.21228164
8/3/2012	21:00	3.156758021
8/3/2012	22:00	2.408767825
8/3/2012	23:00	1.717713904

MDC
;;EPASWMM Time Series Data
;;Enter name... Flow (cfs)

8/1/2012	0:00	0.1060918
8/1/2012	1:00	0.089340463
8/1/2012	2:00	0.074449643
8/1/2012	3:00	0.07631016
8/1/2012	4:00	0.087477718
8/1/2012	5:00	0.152622549
8/1/2012	6:00	0.204737077
8/1/2012	7:00	0.268019162
8/1/2012	8:00	0.290354278
8/1/2012	9:00	0.301521836
8/1/2012	10:00	0.269879679
8/1/2012	11:00	0.262435383
8/1/2012	12:00	0.214044118
8/1/2012	13:00	0.199153298
8/1/2012	14:00	0.193569519
8/1/2012	15:00	0.210320856
8/1/2012	16:00	0.176818182
8/1/2012	17:00	0.204737077
8/1/2012	18:00	0.186125223
8/1/2012	19:00	0.204737077
8/1/2012	20:00	0.182401961
8/1/2012	21:00	0.215904635
8/1/2012	22:00	0.152622549
8/1/2012	23:00	0.139592246
8/2/2012	0:00	0.1060918
8/2/2012	1:00	0.089340463
8/2/2012	2:00	0.074449643
8/2/2012	3:00	0.07631016
8/2/2012	4:00	0.087477718
8/2/2012	5:00	0.152622549
8/2/2012	6:00	0.204737077
8/2/2012	7:00	0.268019162
8/2/2012	8:00	0.290354278
8/2/2012	9:00	0.301521836
8/2/2012	10:00	0.269879679
8/2/2012	11:00	0.262435383
8/2/2012	12:00	0.214044118
8/2/2012	13:00	0.199153298
8/2/2012	14:00	0.193569519
8/2/2012	15:00	0.210320856
8/2/2012	16:00	0.176818182
8/2/2012	17:00	0.204737077
8/2/2012	18:00	0.186125223
8/2/2012	19:00	0.204737077
8/2/2012	20:00	0.182401961
8/2/2012	21:00	0.215904635
8/2/2012	22:00	0.152622549
8/2/2012	23:00	0.139592246

8/3/2012	0:00	0.1060918
8/3/2012	1:00	0.089340463
8/3/2012	2:00	0.074449643
8/3/2012	3:00	0.07631016
8/3/2012	4:00	0.087477718
8/3/2012	5:00	0.152622549
8/3/2012	6:00	0.204737077
8/3/2012	7:00	0.268019162
8/3/2012	8:00	0.290354278
8/3/2012	9:00	0.301521836
8/3/2012	10:00	0.269879679
8/3/2012	11:00	0.262435383
8/3/2012	12:00	0.214044118
8/3/2012	13:00	0.199153298
8/3/2012	14:00	0.193569519
8/3/2012	15:00	0.210320856
8/3/2012	16:00	0.176818182
8/3/2012	17:00	0.204737077
8/3/2012	18:00	0.186125223
8/3/2012	19:00	0.204737077
8/3/2012	20:00	0.182401961
8/3/2012	21:00	0.215904635
8/3/2012	22:00	0.152622549
8/3/2012	23:00	0.139592246

PHASE 1 CONDITION

C.1
;;EPASWMM Time Series Data
;;Enter name... Flow (cfs)

8/1/2012	0:00	1.351628788
8/1/2012	1:00	0.918961676
8/1/2012	2:00	0.781858289
8/1/2012	3:00	0.765962567
8/1/2012	4:00	0.827045455
8/1/2012	5:00	1.383371212
8/1/2012	6:00	2.735438948
8/1/2012	7:00	2.995236185
8/1/2012	8:00	2.532297237
8/1/2012	9:00	2.501501783
8/1/2012	10:00	2.540262923
8/1/2012	11:00	2.337103387
8/1/2012	12:00	2.217894385
8/1/2012	13:00	2.141909537
8/1/2012	14:00	2.107139037
8/1/2012	15:00	2.028651961
8/1/2012	16:00	2.14885918
8/1/2012	17:00	2.392270499
8/1/2012	18:00	2.655042335
8/1/2012	19:00	2.967484403
8/1/2012	20:00	3.220314171
8/1/2012	21:00	3.133879234
8/1/2012	22:00	2.519935383
8/1/2012	23:00	2.058502674
8/2/2012	0:00	1.351628788
8/2/2012	1:00	0.918961676
8/2/2012	2:00	0.781858289
8/2/2012	3:00	0.765962567
8/2/2012	4:00	0.827045455
8/2/2012	5:00	1.383371212
8/2/2012	6:00	2.735438948
8/2/2012	7:00	2.995236185
8/2/2012	8:00	2.532297237
8/2/2012	9:00	2.501501783
8/2/2012	10:00	2.540262923
8/2/2012	11:00	2.337103387
8/2/2012	12:00	2.217894385
8/2/2012	13:00	2.141909537
8/2/2012	14:00	2.107139037
8/2/2012	15:00	2.028651961
8/2/2012	16:00	2.14885918
8/2/2012	17:00	2.392270499

8/2/2012	18:00	2.655042335
8/2/2012	19:00	2.967484403
8/2/2012	20:00	3.220314171
8/2/2012	21:00	3.133879234
8/2/2012	22:00	2.519935383
8/2/2012	23:00	2.058502674
8/3/2012	0:00	1.351628788
8/3/2012	1:00	0.918961676
8/3/2012	2:00	0.781858289
8/3/2012	3:00	0.765962567
8/3/2012	4:00	0.827045455
8/3/2012	5:00	1.383371212
8/3/2012	6:00	2.735438948
8/3/2012	7:00	2.995236185
8/3/2012	8:00	2.532297237
8/3/2012	9:00	2.501501783
8/3/2012	10:00	2.540262923
8/3/2012	11:00	2.337103387
8/3/2012	12:00	2.217894385
8/3/2012	13:00	2.141909537
8/3/2012	14:00	2.107139037
8/3/2012	15:00	2.028651961
8/3/2012	16:00	2.14885918
8/3/2012	17:00	2.392270499
8/3/2012	18:00	2.655042335
8/3/2012	19:00	2.967484403
8/3/2012	20:00	3.220314171
8/3/2012	21:00	3.133879234
8/3/2012	22:00	2.519935383
8/3/2012	23:00	2.058502674

C.2

;;EPASWMM Time Series Data

;;Enter name... Flow (cfs)

8/1/2012	0:00	0.306925134
8/1/2012	1:00	0.267321747
8/1/2012	2:00	0.326724599
8/1/2012	3:00	0.306922906
8/1/2012	4:00	0.267321747
8/1/2012	5:00	0.475238414
8/1/2012	6:00	0.900973708
8/1/2012	7:00	1.415806595
8/1/2012	8:00	1.633618538
8/1/2012	9:00	2.128651961
8/1/2012	10:00	2.069246881
8/1/2012	11:00	2.029643494
8/1/2012	12:00	1.455405526
8/1/2012	13:00	1.247491087
8/1/2012	14:00	1.089079768
8/1/2012	15:00	1.158384581
8/1/2012	16:00	1.396000446
8/1/2012	17:00	1.306893939
8/1/2012	18:00	1.445505793
8/1/2012	19:00	0.861368093
8/1/2012	20:00	0.613852496
8/1/2012	21:00	0.465343137
8/1/2012	22:00	0.267328431
8/1/2012	23:00	0.326729055
8/2/2012	0:00	0.306925134
8/2/2012	1:00	0.267321747
8/2/2012	2:00	0.326724599
8/2/2012	3:00	0.306922906
8/2/2012	4:00	0.267321747
8/2/2012	5:00	0.475238414
8/2/2012	6:00	0.900973708
8/2/2012	7:00	1.415806595
8/2/2012	8:00	1.633618538
8/2/2012	9:00	2.128651961
8/2/2012	10:00	2.069246881
8/2/2012	11:00	2.029643494
8/2/2012	12:00	1.455405526
8/2/2012	13:00	1.247491087
8/2/2012	14:00	1.089079768
8/2/2012	15:00	1.158384581
8/2/2012	16:00	1.396000446

8/2/2012	17:00	1.306893939
8/2/2012	18:00	1.445505793
8/2/2012	19:00	0.861368093
8/2/2012	20:00	0.613852496
8/2/2012	21:00	0.465343137
8/2/2012	22:00	0.267328431
8/2/2012	23:00	0.326729055
8/3/2012	0:00	0.306925134
8/3/2012	1:00	0.267321747
8/3/2012	2:00	0.326724599
8/3/2012	3:00	0.306922906
8/3/2012	4:00	0.267321747
8/3/2012	5:00	0.475238414
8/3/2012	6:00	0.900973708
8/3/2012	7:00	1.415806595
8/3/2012	8:00	1.633618538
8/3/2012	9:00	2.128651961
8/3/2012	10:00	2.069246881
8/3/2012	11:00	2.029643494
8/3/2012	12:00	1.455405526
8/3/2012	13:00	1.247491087
8/3/2012	14:00	1.089079768
8/3/2012	15:00	1.158384581
8/3/2012	16:00	1.396000446
8/3/2012	17:00	1.306893939
8/3/2012	18:00	1.445505793
8/3/2012	19:00	0.861368093
8/3/2012	20:00	0.613852496
8/3/2012	21:00	0.465343137
8/3/2012	22:00	0.267328431
8/3/2012	23:00	0.326729055

C.3

;;EPASWMM Time Series Data

;;Enter name... Flow (cfs)

8/1/2012	0:00	0.747620321
8/1/2012	1:00	0.583050357
8/1/2012	2:00	0.531918449
8/1/2012	3:00	0.513462567
8/1/2012	4:00	0.548520499
8/1/2012	5:00	0.809200089
8/1/2012	6:00	1.424993316
8/1/2012	7:00	1.565588235
8/1/2012	8:00	1.395196078
8/1/2012	9:00	1.395608289
8/1/2012	10:00	1.406432709
8/1/2012	11:00	1.308792335
8/1/2012	12:00	1.235260695
8/1/2012	13:00	1.185262923
8/1/2012	14:00	1.178440285
8/1/2012	15:00	1.134030749
8/1/2012	16:00	1.204425134
8/1/2012	17:00	1.286813725
8/1/2012	18:00	1.352860963
8/1/2012	19:00	1.479255793
8/1/2012	20:00	1.633351159
8/1/2012	21:00	1.603819073
8/1/2012	22:00	1.291254456
8/1/2012	23:00	1.018217469
8/2/2012	0:00	0.747620321
8/2/2012	1:00	0.583050357
8/2/2012	2:00	0.531918449
8/2/2012	3:00	0.513462567
8/2/2012	4:00	0.548520499
8/2/2012	5:00	0.809200089
8/2/2012	6:00	1.424993316
8/2/2012	7:00	1.565588235
8/2/2012	8:00	1.395196078
8/2/2012	9:00	1.395608289
8/2/2012	10:00	1.406432709
8/2/2012	11:00	1.308792335
8/2/2012	12:00	1.235260695
8/2/2012	13:00	1.185262923
8/2/2012	14:00	1.178440285

8/2/2012	15:00	1.134030749
8/2/2012	16:00	1.204425134
8/2/2012	17:00	1.286813725
8/2/2012	18:00	1.352860963
8/2/2012	19:00	1.479255793
8/2/2012	20:00	1.633351159
8/2/2012	21:00	1.603819073
8/2/2012	22:00	1.291254456
8/2/2012	23:00	1.018217469
8/3/2012	0:00	0.747620321
8/3/2012	1:00	0.583050357
8/3/2012	2:00	0.531918449
8/3/2012	3:00	0.513462567
8/3/2012	4:00	0.548520499
8/3/2012	5:00	0.809200089
8/3/2012	6:00	1.424993316
8/3/2012	7:00	1.565588235
8/3/2012	8:00	1.395196078
8/3/2012	9:00	1.395608289
8/3/2012	10:00	1.406432709
8/3/2012	11:00	1.308792335
8/3/2012	12:00	1.235260695
8/3/2012	13:00	1.185262923
8/3/2012	14:00	1.178440285
8/3/2012	15:00	1.134030749
8/3/2012	16:00	1.204425134
8/3/2012	17:00	1.286813725
8/3/2012	18:00	1.352860963
8/3/2012	19:00	1.479255793
8/3/2012	20:00	1.633351159
8/3/2012	21:00	1.603819073
8/3/2012	22:00	1.291254456
8/3/2012	23:00	1.018217469

H.1
;;EPASWMM Time Series Data
;;Enter name... Flow (cfs)

8/1/2012	0:00	2.13133467
8/1/2012	1:00	2.305730838
8/1/2012	2:00	2.125851159
8/1/2012	3:00	2.125851159
8/1/2012	4:00	2.570530303
8/1/2012	5:00	2.405394385
8/1/2012	6:00	4.808625223
8/1/2012	7:00	3.755652852
8/1/2012	8:00	4.276125223
8/1/2012	9:00	3.128743316
8/1/2012	10:00	3.919496435
8/1/2012	11:00	3.38644385
8/1/2012	12:00	4.355144831
8/1/2012	13:00	4.08527852
8/1/2012	14:00	4.438678699
8/1/2012	15:00	3.645345365
8/1/2012	16:00	3.293233066
8/1/2012	17:00	3.295167112
8/1/2012	18:00	2.681483957
8/1/2012	19:00	2.686321301
8/1/2012	20:00	3.045207219
8/1/2012	21:00	2.161009358
8/1/2012	22:00	2.503444742
8/1/2012	23:00	2.84307041
8/2/2012	0:00	2.13133467
8/2/2012	1:00	2.305730838
8/2/2012	2:00	2.125851159
8/2/2012	3:00	2.125851159
8/2/2012	4:00	2.570530303
8/2/2012	5:00	2.405394385
8/2/2012	6:00	4.808625223
8/2/2012	7:00	3.755652852
8/2/2012	8:00	4.276125223
8/2/2012	9:00	3.128743316
8/2/2012	10:00	3.919496435
8/2/2012	11:00	3.38644385
8/2/2012	12:00	4.355144831
8/2/2012	13:00	4.08527852

8/2/2012	14:00	4.438678699
8/2/2012	15:00	3.645345365
8/2/2012	16:00	3.293233066
8/2/2012	17:00	3.295167112
8/2/2012	18:00	2.681483957
8/2/2012	19:00	2.686321301
8/2/2012	20:00	3.045207219
8/2/2012	21:00	2.161009358
8/2/2012	22:00	2.503444742
8/2/2012	23:00	2.84307041
8/3/2012	0:00	2.13133467
8/3/2012	1:00	2.305730838
8/3/2012	2:00	2.125851159
8/3/2012	3:00	2.125851159
8/3/2012	4:00	2.570530303
8/3/2012	5:00	2.405394385
8/3/2012	6:00	4.808625223
8/3/2012	7:00	3.755652852
8/3/2012	8:00	4.276125223
8/3/2012	9:00	3.128743316
8/3/2012	10:00	3.919496435
8/3/2012	11:00	3.38644385
8/3/2012	12:00	4.355144831
8/3/2012	13:00	4.08527852
8/3/2012	14:00	4.438678699
8/3/2012	15:00	3.645345365
8/3/2012	16:00	3.293233066
8/3/2012	17:00	3.295167112
8/3/2012	18:00	2.681483957
8/3/2012	19:00	2.686321301
8/3/2012	20:00	3.045207219
8/3/2012	21:00	2.161009358
8/3/2012	22:00	2.503444742
8/3/2012	23:00	2.84307041

H.2

;;EPASWMM Time Series Data

;;Enter name... Flow (cfs)

8/1/2012	0:00	0.153114973
8/1/2012	1:00	0.166045009
8/1/2012	2:00	0.153114973
8/1/2012	3:00	0.153114973
8/1/2012	4:00	0.185098039
8/1/2012	5:00	0.172395276
8/1/2012	6:00	0.344565508
8/1/2012	7:00	0.268121658
8/1/2012	8:00	0.306454991
8/1/2012	9:00	0.223433601
8/1/2012	10:00	0.280824421
8/1/2012	11:00	0.242488859
8/1/2012	12:00	0.312807487
8/1/2012	13:00	0.293527184
8/1/2012	14:00	0.319157754
8/1/2012	15:00	0.261769162
8/1/2012	16:00	0.236136364
8/1/2012	17:00	0.236136364
8/1/2012	18:00	0.191450535
8/1/2012	19:00	0.191450535
8/1/2012	20:00	0.217083333
8/1/2012	21:00	0.153114973
8/1/2012	22:00	0.178747772
8/1/2012	23:00	0.204153298
8/2/2012	0:00	0.153114973
8/2/2012	1:00	0.166045009
8/2/2012	2:00	0.153114973
8/2/2012	3:00	0.153114973
8/2/2012	4:00	0.185098039
8/2/2012	5:00	0.172395276
8/2/2012	6:00	0.344565508
8/2/2012	7:00	0.268121658
8/2/2012	8:00	0.306454991
8/2/2012	9:00	0.223433601
8/2/2012	10:00	0.280824421
8/2/2012	11:00	0.242488859

8/2/2012	12:00	0.312807487
8/2/2012	13:00	0.293527184
8/2/2012	14:00	0.319157754
8/2/2012	15:00	0.261769162
8/2/2012	16:00	0.236136364
8/2/2012	17:00	0.236136364
8/2/2012	18:00	0.191450535
8/2/2012	19:00	0.191450535
8/2/2012	20:00	0.217083333
8/2/2012	21:00	0.153114973
8/2/2012	22:00	0.178747772
8/2/2012	23:00	0.204153298
8/3/2012	0:00	0.153114973
8/3/2012	1:00	0.166045009
8/3/2012	2:00	0.153114973
8/3/2012	3:00	0.153114973
8/3/2012	4:00	0.185098039
8/3/2012	5:00	0.172395276
8/3/2012	6:00	0.344565508
8/3/2012	7:00	0.268121658
8/3/2012	8:00	0.306454991
8/3/2012	9:00	0.223433601
8/3/2012	10:00	0.280824421
8/3/2012	11:00	0.242488859
8/3/2012	12:00	0.312807487
8/3/2012	13:00	0.293527184
8/3/2012	14:00	0.319157754
8/3/2012	15:00	0.261769162
8/3/2012	16:00	0.236136364
8/3/2012	17:00	0.236136364
8/3/2012	18:00	0.191450535
8/3/2012	19:00	0.191450535
8/3/2012	20:00	0.217083333
8/3/2012	21:00	0.153114973
8/3/2012	22:00	0.178747772
8/3/2012	23:00	0.204153298

H.6

;;EPASWMM Time Series Data

;;Enter name... Flow (cfs)

8/1/2012	0:00	0.39271836
8/1/2012	1:00	0.273703209
8/1/2012	2:00	0.236229947
8/1/2012	3:00	0.232820856
8/1/2012	4:00	0.26405303
8/1/2012	5:00	0.447863191
8/1/2012	6:00	0.895053476
8/1/2012	7:00	0.968921569
8/1/2012	8:00	0.813201872
8/1/2012	9:00	0.802566845
8/1/2012	10:00	0.79879902
8/1/2012	11:00	0.733057041
8/1/2012	12:00	0.691365865
8/1/2012	13:00	0.652909982
8/1/2012	14:00	0.641421569
8/1/2012	15:00	0.620554813
8/1/2012	16:00	0.658429144
8/1/2012	17:00	0.722738414
8/1/2012	18:00	0.80127451
8/1/2012	19:00	0.898520499
8/1/2012	20:00	0.982976827
8/1/2012	21:00	0.960403298
8/1/2012	22:00	0.756174242
8/1/2012	23:00	0.586680036
8/2/2012	0:00	0.39271836
8/2/2012	1:00	0.273703209
8/2/2012	2:00	0.236229947
8/2/2012	3:00	0.232820856
8/2/2012	4:00	0.26405303
8/2/2012	5:00	0.447863191
8/2/2012	6:00	0.895053476
8/2/2012	7:00	0.968921569
8/2/2012	8:00	0.813201872
8/2/2012	9:00	0.802566845
8/2/2012	10:00	0.79879902

8/2/2012	11:00	0.733057041
8/2/2012	12:00	0.691365865
8/2/2012	13:00	0.652909982
8/2/2012	14:00	0.641421569
8/2/2012	15:00	0.620554813
8/2/2012	16:00	0.658429144
8/2/2012	17:00	0.722738414
8/2/2012	18:00	0.80127451
8/2/2012	19:00	0.898520499
8/2/2012	20:00	0.982976827
8/2/2012	21:00	0.960403298
8/2/2012	22:00	0.756174242
8/2/2012	23:00	0.586680036
8/3/2012	0:00	0.39271836
8/3/2012	1:00	0.273703209
8/3/2012	2:00	0.236229947
8/3/2012	3:00	0.232820856
8/3/2012	4:00	0.26405303
8/3/2012	5:00	0.447863191
8/3/2012	6:00	0.895053476
8/3/2012	7:00	0.968921569
8/3/2012	8:00	0.813201872
8/3/2012	9:00	0.802566845
8/3/2012	10:00	0.79879902
8/3/2012	11:00	0.733057041
8/3/2012	12:00	0.691365865
8/3/2012	13:00	0.652909982
8/3/2012	14:00	0.641421569
8/3/2012	15:00	0.620554813
8/3/2012	16:00	0.658429144
8/3/2012	17:00	0.722738414
8/3/2012	18:00	0.80127451
8/3/2012	19:00	0.898520499
8/3/2012	20:00	0.982976827
8/3/2012	21:00	0.960403298
8/3/2012	22:00	0.756174242
8/3/2012	23:00	0.586680036

H.7

;;EPASWMM Time Series Data

;;Enter name... Flow (cfs)

8/1/2012	0:00	0.285819964
8/1/2012	1:00	0.207152406
8/1/2012	2:00	0.202477718
8/1/2012	3:00	0.193843583
8/1/2012	4:00	0.183966132
8/1/2012	5:00	0.312165775
8/1/2012	6:00	0.600926916
8/1/2012	7:00	0.785967023
8/1/2012	8:00	0.791610963
8/1/2012	9:00	0.928328877
8/1/2012	10:00	0.925713012
8/1/2012	11:00	0.888409091
8/1/2012	12:00	0.712127897
8/1/2012	13:00	0.651307932
8/1/2012	14:00	0.602085561
8/1/2012	15:00	0.609081996
8/1/2012	16:00	0.692435383
8/1/2012	17:00	0.706624332
8/1/2012	18:00	0.783324421
8/1/2012	19:00	0.660080214
8/1/2012	20:00	0.620895722
8/1/2012	21:00	0.564652406
8/1/2012	22:00	0.432865419
8/1/2012	23:00	0.401891711
8/2/2012	0:00	0.285819964
8/2/2012	1:00	0.207152406
8/2/2012	2:00	0.202477718
8/2/2012	3:00	0.193843583
8/2/2012	4:00	0.183966132
8/2/2012	5:00	0.312165775
8/2/2012	6:00	0.600926916
8/2/2012	7:00	0.785967023
8/2/2012	8:00	0.791610963

8/2/2012	9:00	0.928328877
8/2/2012	10:00	0.925713012
8/2/2012	11:00	0.888409091
8/2/2012	12:00	0.712127897
8/2/2012	13:00	0.651307932
8/2/2012	14:00	0.602085561
8/2/2012	15:00	0.609081996
8/2/2012	16:00	0.692435383
8/2/2012	17:00	0.706624332
8/2/2012	18:00	0.783324421
8/2/2012	19:00	0.660080214
8/2/2012	20:00	0.620895722
8/2/2012	21:00	0.564652406
8/2/2012	22:00	0.432865419
8/2/2012	23:00	0.401891711
8/3/2012	0:00	0.285819964
8/3/2012	1:00	0.207152406
8/3/2012	2:00	0.202477718
8/3/2012	3:00	0.193843583
8/3/2012	4:00	0.183966132
8/3/2012	5:00	0.312165775
8/3/2012	6:00	0.600926916
8/3/2012	7:00	0.785967023
8/3/2012	8:00	0.791610963
8/3/2012	9:00	0.928328877
8/3/2012	10:00	0.925713012
8/3/2012	11:00	0.888409091
8/3/2012	12:00	0.712127897
8/3/2012	13:00	0.651307932
8/3/2012	14:00	0.602085561
8/3/2012	15:00	0.609081996
8/3/2012	16:00	0.692435383
8/3/2012	17:00	0.706624332
8/3/2012	18:00	0.783324421
8/3/2012	19:00	0.660080214
8/3/2012	20:00	0.620895722
8/3/2012	21:00	0.564652406
8/3/2012	22:00	0.432865419
8/3/2012	23:00	0.401891711

H.9

;;EPASWMM Time Series Data

;;Enter name... Flow (cfs)

8/1/2012	0:00	0.620073529
8/1/2012	1:00	0.442143494
8/1/2012	2:00	0.386497326
8/1/2012	3:00	0.382914439
8/1/2012	4:00	0.452328431
8/1/2012	5:00	0.775606061
8/1/2012	6:00	1.562698307
8/1/2012	7:00	1.676920677
8/1/2012	8:00	1.39942959
8/1/2012	9:00	1.380120321
8/1/2012	10:00	1.351769162
8/1/2012	11:00	1.237952317
8/1/2012	12:00	1.161615419
8/1/2012	13:00	1.076475045
8/1/2012	14:00	1.056272282
8/1/2012	15:00	1.026207665
8/1/2012	16:00	1.090407754
8/1/2012	17:00	1.182388592
8/1/2012	18:00	1.309645722
8/1/2012	19:00	1.472831996
8/1/2012	20:00	1.622575758
8/1/2012	21:00	1.590721925
8/1/2012	22:00	1.22972148
8/1/2012	23:00	0.909293672
8/2/2012	0:00	0.620073529
8/2/2012	1:00	0.442143494
8/2/2012	2:00	0.386497326
8/2/2012	3:00	0.382914439
8/2/2012	4:00	0.452328431
8/2/2012	5:00	0.775606061

8/2/2012	6:00	1.562698307
8/2/2012	7:00	1.676920677
8/2/2012	8:00	1.39942959
8/2/2012	9:00	1.380120321
8/2/2012	10:00	1.351769162
8/2/2012	11:00	1.237952317
8/2/2012	12:00	1.161615419
8/2/2012	13:00	1.076475045
8/2/2012	14:00	1.056272282
8/2/2012	15:00	1.026207665
8/2/2012	16:00	1.090407754
8/2/2012	17:00	1.182388592
8/2/2012	18:00	1.309645722
8/2/2012	19:00	1.472831996
8/2/2012	20:00	1.622575758
8/2/2012	21:00	1.590721925
8/2/2012	22:00	1.22972148
8/2/2012	23:00	0.909293672
8/3/2012	0:00	0.620073529
8/3/2012	1:00	0.442143494
8/3/2012	2:00	0.386497326
8/3/2012	3:00	0.382914439
8/3/2012	4:00	0.452328431
8/3/2012	5:00	0.775606061
8/3/2012	6:00	1.562698307
8/3/2012	7:00	1.676920677
8/3/2012	8:00	1.39942959
8/3/2012	9:00	1.380120321
8/3/2012	10:00	1.351769162
8/3/2012	11:00	1.237952317
8/3/2012	12:00	1.161615419
8/3/2012	13:00	1.076475045
8/3/2012	14:00	1.056272282
8/3/2012	15:00	1.026207665
8/3/2012	16:00	1.090407754
8/3/2012	17:00	1.182388592
8/3/2012	18:00	1.309645722
8/3/2012	19:00	1.472831996
8/3/2012	20:00	1.622575758
8/3/2012	21:00	1.590721925
8/3/2012	22:00	1.22972148
8/3/2012	23:00	0.909293672

H.11
;;EPASWMM Time Series Data
;;Enter name... Flow (cfs)

8/1/2012	0:00	0.153937166
8/1/2012	1:00	0.09662656
8/1/2012	2:00	0.078175134
8/1/2012	3:00	0.07491533
8/1/2012	4:00	0.065695187
8/1/2012	5:00	0.102453209
8/1/2012	6:00	0.191238859
8/1/2012	7:00	0.22276738
8/1/2012	8:00	0.195492424
8/1/2012	9:00	0.194010695
8/1/2012	10:00	0.216457219
8/1/2012	11:00	0.201377005
8/1/2012	12:00	0.196261141
8/1/2012	13:00	0.207261586
8/1/2012	14:00	0.204962121
8/1/2012	15:00	0.19370098
8/1/2012	16:00	0.203852496
8/1/2012	17:00	0.239269162
8/1/2012	18:00	0.266575312
8/1/2012	19:00	0.294400624
8/1/2012	20:00	0.310002228
8/1/2012	21:00	0.297110071
8/1/2012	22:00	0.258201872
8/1/2012	23:00	0.248150624
8/2/2012	0:00	0.153937166
8/2/2012	1:00	0.09662656
8/2/2012	2:00	0.078175134
8/2/2012	3:00	0.07491533
8/2/2012	4:00	0.065695187

8/2/2012	5:00	0.102453209
8/2/2012	6:00	0.191238859
8/2/2012	7:00	0.22276738
8/2/2012	8:00	0.195492424
8/2/2012	9:00	0.194010695
8/2/2012	10:00	0.216457219
8/2/2012	11:00	0.201377005
8/2/2012	12:00	0.196261141
8/2/2012	13:00	0.207261586
8/2/2012	14:00	0.204962121
8/2/2012	15:00	0.19370098
8/2/2012	16:00	0.203852496
8/2/2012	17:00	0.239269162
8/2/2012	18:00	0.266575312
8/2/2012	19:00	0.294400624
8/2/2012	20:00	0.310002228
8/2/2012	21:00	0.297110071
8/2/2012	22:00	0.258201872
8/2/2012	23:00	0.248150624
8/3/2012	0:00	0.153937166
8/3/2012	1:00	0.09662656
8/3/2012	2:00	0.078175134
8/3/2012	3:00	0.07491533
8/3/2012	4:00	0.065695187
8/3/2012	5:00	0.102453209
8/3/2012	6:00	0.191238859
8/3/2012	7:00	0.22276738
8/3/2012	8:00	0.195492424
8/3/2012	9:00	0.194010695
8/3/2012	10:00	0.216457219
8/3/2012	11:00	0.201377005
8/3/2012	12:00	0.196261141
8/3/2012	13:00	0.207261586
8/3/2012	14:00	0.204962121
8/3/2012	15:00	0.19370098
8/3/2012	16:00	0.203852496
8/3/2012	17:00	0.239269162
8/3/2012	18:00	0.266575312
8/3/2012	19:00	0.294400624
8/3/2012	20:00	0.310002228
8/3/2012	21:00	0.297110071
8/3/2012	22:00	0.258201872
8/3/2012	23:00	0.248150624

H.12

;;EPASWMM Time Series Data

;;Enter name... Flow (cfs)

8/1/2012	0:00	0.040741979
	1:00	0.035483512
	2:00	0.043368984
	3:00	0.040741979
	4:00	0.035483512
	5:00	0.063083779
	6:00	0.119594474
	7:00	0.187934492
	8:00	0.216847148
	9:00	0.28256016
	10:00	0.274674688
	11:00	0.269416221
	12:00	0.193190731
	13:00	0.165592692
	14:00	0.144565508
	15:00	0.153765597
	16:00	0.185307487
	17:00	0.173478164
	18:00	0.191878342
	19:00	0.114338235
	20:00	0.081481729
	21:00	0.061769162
	22:00	0.035483512
	23:00	0.043368984
8/2/2012	0:00	0.040741979
	1:00	0.035483512
	2:00	0.043368984

	3:00	0.040741979
	4:00	0.035483512
	5:00	0.063083779
	6:00	0.119594474
	7:00	0.187934492
	8:00	0.216847148
	9:00	0.28256016
	10:00	0.274674688
	11:00	0.269416221
	12:00	0.193190731
	13:00	0.165592692
	14:00	0.144565508
	15:00	0.153765597
	16:00	0.185307487
	17:00	0.173478164
	18:00	0.191878342
	19:00	0.114338235
	20:00	0.081481729
	21:00	0.061769162
	22:00	0.035483512
	23:00	0.043368984
8/3/2012	0:00	0.040741979
	1:00	0.035483512
	2:00	0.043368984
	3:00	0.040741979
	4:00	0.035483512
	5:00	0.063083779
	6:00	0.119594474
	7:00	0.187934492
	8:00	0.216847148
	9:00	0.28256016
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	11:00	0.269416221
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	13:00	0.165592692
	14:00	0.144565508
	15:00	0.153765597
	16:00	0.185307487
	17:00	0.173478164
	18:00	0.191878342
	19:00	0.114338235
	20:00	0.081481729
	21:00	0.061769162
	22:00	0.035483512
	23:00	0.043368984

K.1

;;EPASWMM Time Series Data

;;Enter name... Flow (cfs)

8/1/2012	0:00	1.18828877
8/1/2012	1:00	0.861864973
8/1/2012	2:00	0.760365419
8/1/2012	3:00	0.756122995
8/1/2012	4:00	0.918453654
8/1/2012	5:00	1.586163102
8/1/2012	6:00	3.212644831
8/1/2012	7:00	3.428023619
8/1/2012	8:00	2.850142602
8/1/2012	9:00	2.809471925
8/1/2012	10:00	2.722468806
8/1/2012	11:00	2.489759358
8/1/2012	12:00	2.328137255
8/1/2012	13:00	2.129378342
8/1/2012	14:00	2.087647059
8/1/2012	15:00	2.034244652
8/1/2012	16:00	2.163683155
8/1/2012	17:00	2.326011586
8/1/2012	18:00	2.574634581
8/1/2012	19:00	2.901414884
8/1/2012	20:00	3.21228164
8/1/2012	21:00	3.156758021
8/1/2012	22:00	2.408767825
8/1/2012	23:00	1.717713904
8/2/2012	0:00	1.18828877
8/2/2012	1:00	0.861864973

8/2/2012	2:00	0.760365419
8/2/2012	3:00	0.756122995
8/2/2012	4:00	0.918453654
8/2/2012	5:00	1.586163102
8/2/2012	6:00	3.212644831
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8/2/2012	17:00	2.326011586
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8/2/2012	21:00	3.156758021
8/2/2012	22:00	2.408767825
8/2/2012	23:00	1.717713904
8/3/2012	0:00	1.18828877
8/3/2012	1:00	0.861864973
8/3/2012	2:00	0.760365419
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8/3/2012	6:00	3.212644831
8/3/2012	7:00	3.428023619
8/3/2012	8:00	2.850142602
8/3/2012	9:00	2.809471925
8/3/2012	10:00	2.722468806
8/3/2012	11:00	2.489759358
8/3/2012	12:00	2.328137255
8/3/2012	13:00	2.129378342
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8/3/2012	16:00	2.163683155
8/3/2012	17:00	2.326011586
8/3/2012	18:00	2.574634581
8/3/2012	19:00	2.901414884
8/3/2012	20:00	3.21228164
8/3/2012	21:00	3.156758021
8/3/2012	22:00	2.408767825
8/3/2012	23:00	1.717713904

MDC
MDC
;;EPASWMM Time Series Data
;;Enter name... Flow (cfs)

8/1/2012	0:00	0.1060918
8/1/2012	1:00	0.089340463
8/1/2012	2:00	0.074449643
8/1/2012	3:00	0.07631016
8/1/2012	4:00	0.087477718
8/1/2012	5:00	0.152622549
8/1/2012	6:00	0.204737077
8/1/2012	7:00	0.268019162
8/1/2012	8:00	0.290354278
8/1/2012	9:00	0.301521836
8/1/2012	10:00	0.269879679
8/1/2012	11:00	0.262435383
8/1/2012	12:00	0.214044118
8/1/2012	13:00	0.199153298
8/1/2012	14:00	0.193569519
8/1/2012	15:00	0.210320856
8/1/2012	16:00	0.176818182
8/1/2012	17:00	0.204737077
8/1/2012	18:00	0.186125223
8/1/2012	19:00	0.204737077
8/1/2012	20:00	0.182401961
8/1/2012	21:00	0.215904635
8/1/2012	22:00	0.152622549

8/1/2012	23:00	0.139592246
8/2/2012	0:00	0.1060918
8/2/2012	1:00	0.089340463
8/2/2012	2:00	0.074449643
8/2/2012	3:00	0.07631016
8/2/2012	4:00	0.087477718
8/2/2012	5:00	0.152622549
8/2/2012	6:00	0.204737077
8/2/2012	7:00	0.268019162
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8/2/2012	14:00	0.193569519
8/2/2012	15:00	0.210320856
8/2/2012	16:00	0.176818182
8/2/2012	17:00	0.204737077
8/2/2012	18:00	0.186125223
8/2/2012	19:00	0.204737077
8/2/2012	20:00	0.182401961
8/2/2012	21:00	0.215904635
8/2/2012	22:00	0.152622549
8/2/2012	23:00	0.139592246
8/3/2012	0:00	0.1060918
8/3/2012	1:00	0.089340463
8/3/2012	2:00	0.074449643
8/3/2012	3:00	0.07631016
8/3/2012	4:00	0.087477718
8/3/2012	5:00	0.152622549
8/3/2012	6:00	0.204737077
8/3/2012	7:00	0.268019162
8/3/2012	8:00	0.290354278
8/3/2012	9:00	0.301521836
8/3/2012	10:00	0.269879679
8/3/2012	11:00	0.262435383
8/3/2012	12:00	0.214044118
8/3/2012	13:00	0.199153298
8/3/2012	14:00	0.193569519
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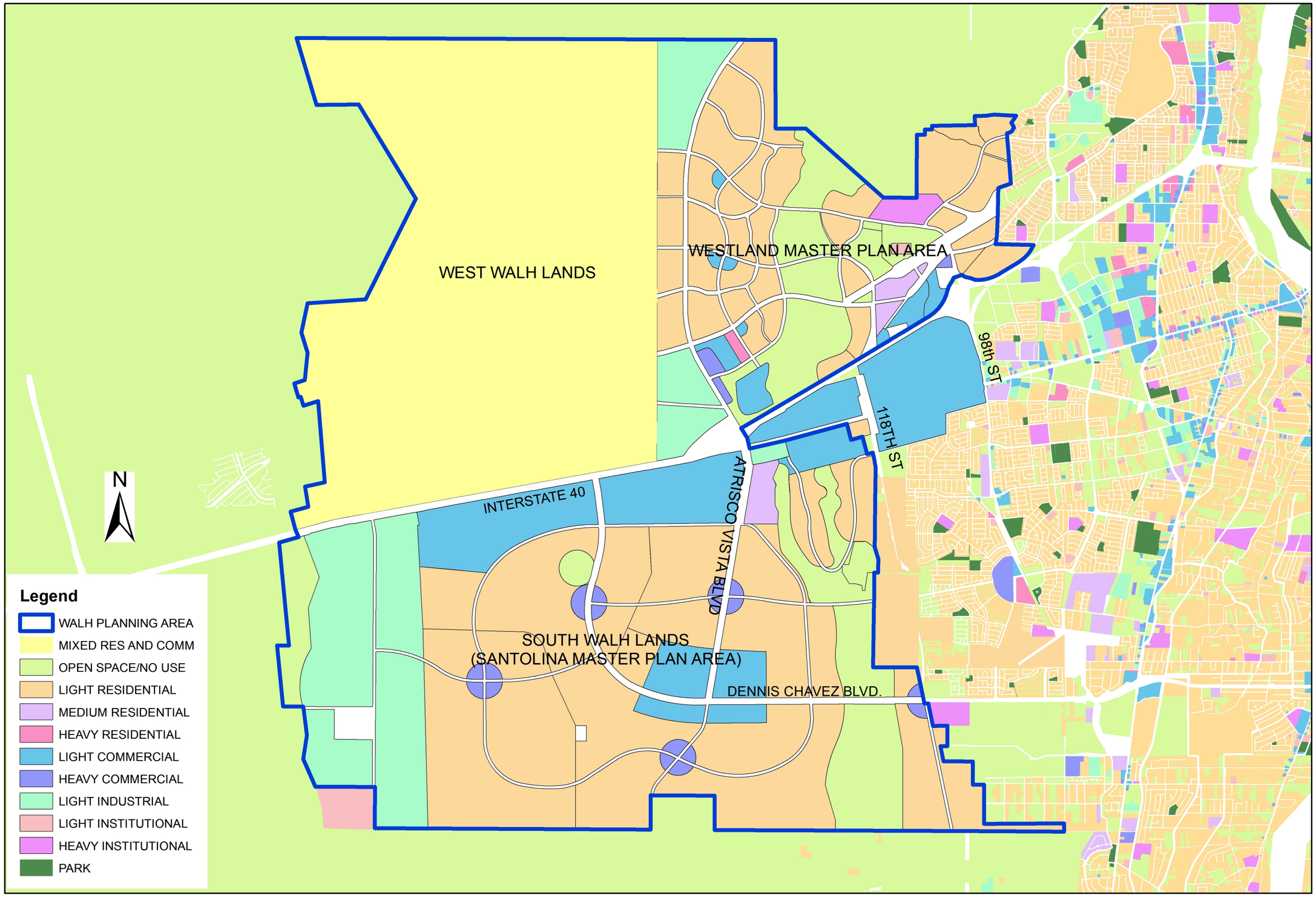
8/3/2012	18:00	0.186125223
8/3/2012	19:00	0.204737077
8/3/2012	20:00	0.182401961
8/3/2012	21:00	0.215904635
8/3/2012	22:00	0.152622549
8/3/2012	23:00	0.139592246

APPENDIX D

PREVIOUS REPORT EXCERPT (LAND USE MAP)



(Taken from Western Albuquerque Land Holdings Wastewater Master Plan 2012 Update, prepared by Bohannan Huston, Inc, dated Dec. 2012)

LAND USE MAP