

KINGDOM OF SAUDIA ARABIA



Project Name Water Quality Improvement Project - North Distribution Network & Reservoirs - Dammam Project 5



Main Contractor Alkhorayef Water & Power Technologies

### DOCUMENT TITLE: DETAILED HYDRAULIC DESIGN FOR DAMMAM WATER SYSTEM – DAMMAM 5

1	04.01.2023	First Submission	MAS	MSN	MSN	AEN
0	29.10.2022	First Submission	MAS	MSN	MSN	AEN
Rev.	Date	Submission	Prepared	Reviewed	QA/QC	Approved
			Ву	Ву		Ву
CONTRACTOR CONSULTANT:		Project No.	: 701220077			
		ARTELIA	RPT-MEC-D	0M5-200-RE\	/-00	Rev. 0





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## 1 GENERAL

### 1.1 Introduction

The Kingdom of Saudi Arabia has been increasing its investment in clean energy, power and water.

In this context, many water quality improvement projects are being proposed in multiple cities in the Eastern region of Kingdom of Saudi Arabia in order to strategically improve the potable water quality, supply and storage by replacing poor quality high saline ground water with Saline Water Conversion Corporation (SWCC) water, in order to improve the network resilience and water delivery for the proposed growth area.

### 1.2 Purpose of this documents

The objective of this report is to present the detailed hydraulic design for Dammam water elements under the scope of Dammam 5 project. The detailed design will be based on analysing the system steady state hydraulic performance and during the different operating scenarios for the design target year 2050. In addition, transient hydraulic analysis will be performed and submitted in separate document in order to investigate the impact of water hammer on the proposed items and size the proper protection devices to mitigate the surge effect, if needed.

The detailed Hydraulic design of the overall system will be carried out to verify head losses, Pump station capacities, resulting flow rates and water velocities in the piping systems related to Dammam 5 scope. Boundary conditions at the connection points will be used from the received hydraulic model to allow appropriate operation of the system and will be clearly stated within the report.

### 1.3 References and Standards

The detailed hydraulic design criteria, system design and analysis are based on using the following references and standards:

- Hydraulic design basis for Dammam water system (WQIP-Q0-ILF-T-0012).
- Preliminary Hydraulic design for Dammam 5 water system (WQIP-D5-ILF-T-0043).
- O0\_TES\_SD\_001-The Specification, Bills of Quantities and Typical Details for Water and Wastewater Networks Specifications – Water and Sewer Networks.
- Employers Requirements, RFP.
- RFP Drawings, D900208-DAM5-DG-EN-XXXX-01.





- Pipeline design basis and thickness calculation report for Dammam 5 (WQIP-D5-ILF-T-0024).
- Final masterplan report: SA025WTD-P1-S9-MP-REP-0001\_01\_Volume 1.

### 1.4 Abbreviations

NWC	:	National Water Company	
ISO	:	International Organization for Standardization	
DI	:	Ductile Iron	
EPS	:	Extended Period Simulation	
FCV	:	Flow Control Valve	
VFD	:	Variable Frequency Drive	
SOW	:	SCOPE OF WORK	
RFP	:	REQUEST FOR PROPOSAL	

## 1.5 System of Units

The International Unit System (SI) shall be used in accordance with the latest Standard of the ISO 80000 standard (drawings, calculations, etc.).

Item	Unit
Length	Meter (m) or millimeter (mm)
Diameter	Meter (m) or millimeter (mm)
Pressure	Bars
Force	Kilo Newton (kN)
Velocity	Meter per second (m/s)
Flow	Meter cube per second (m³/s), Litre per second (l/s)





## 2 DAMMAM WATER SYSTEM

## 1.1 System Description

Generally, Saline Water Conversion Corporation (SWCC) provides water for most parts of the Dammam water system. The existing system is divided into two by Jubail Highway. The east part of the network is supplied by gravity through Tank 55, which gravitates to the local network in the southeast, and north along the two large main to the Central Pump Station that delivers pumped water to the lower-laying northeast. Pumps from Tank 71 supply the network on the west side of the Jubail highway through two mains. Moreover, several isolated networks also exist that are only supplied by groundwater (Figure 1).

Please note that Figure 1 is taken from the Request for Proposal (RFP) and presented without modifications with Reference. However, the terms reservoir and tanks are used interchangeably, and the red arrow in figure one should have been blue.



Figure 1: Current Dammam Water Network Operation (sources: NWC - Project requirements – Dammam project 2 – Rev Feb 2021)

According to the latest master plan, the Dammam city water distribution network is supplied continuously (24x7) from three reservoirs/pumping station sites, in addition to the wells located within the city:

- Tanks 71 complex (including a pumping station)
- Tanks 55 reservoirs (including a pumping station to Dhahran area)
- Central Tanks site (including a pumping station)
- 53 wells (distributed within the network)





Figure 2 shows Dammam Existing Water Supply Network Schematic.

The current local/operational reservoirs storages capacities and pumping stations are presented in the table 1.

Table 1: Dammam Current Operational Storage and Pumping Capacities (Source: Master Plan)

Reservoir/Pumping Station Name         Current reservoir storage capacity (m <sup>3</sup> )		Current pumping station capacity	No of duty/St-by Pumps
Tanks 71	4x12,000	1 x (Q = 500 l/s & H = 42 m) (Group 1) 1 x (Q = 500 l/s & H = 42 m) (Group 2)	1 duty + 1 St-by (Group 1) 1 duty + 3 St-by (Group 2)
Tanks 55	25,000	1 x (Q = 250 l/s & H = 65 m)	1 duty + 2 St-by
Central Tanks	2,340 + 2x10,000	1 x (Q = 388 l/s & H = 45 m)	1 duty + 4 St-by
Total	95,340		

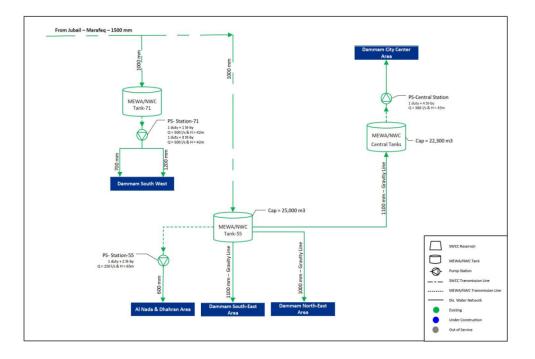


Figure 2: Dammam Existing Water Supply Network Schematic (Source: Master Plan)

However, according to the Dammam Water Improvement – Project 2 report (Project requirements – Dammam project 2 – Rev 2021) conducted by National Water Company NWC, the current system is faced with salinity problems, not functioning at its optimal condition and not supplying enough pressured water to some parts of the city due to many reasons including a limited supply of water by the SWCC, poor network connectivity, limited storage capacity and pumping stations, poor Operation and Maintenance (O&M), and limited electricity supply.





Jacobs has modeled the current network to improve the system performance, and its performance has been studied. The model showed that some areas connected with the SWCC could not receive water at an adequate pressure. As a result, groundwater is used in these areas to supplement the SWCC supply, but still, sufficient pressure is not maintained as pressure across the network generally is too low. Thus, a number of possible water improvement measures have been proposed by NWC in the same reports mentioned above that could improve the system's efficiency, Figure 3.

In summary, the water improvement measures have been divided into the following five projects:

- Project 1 (quick win) includes the strategic loop network between Dhahyia and Central tanks.
- Project 2 includes reticulation spines to address salinity in the north of Dammam, and storage and pump station upgrades at Dhahyia and Tank 71.
- Project 3 this includes the strategic loop and distribution network between Jamiah and Dhahyia tanks, along with the construction of storage and a pump station at Ash Shulah.
- Project 4 includes the Jamiah tank and the SWCC supply main supplying Jamiah from the desalinated water supply.
- Project 5 includes the strategic loop and distribution network between Jamiah and Central tanks, along with the construction and upgrades of storage and pump stations at Central Tank, Tank 55, and Jamiah.





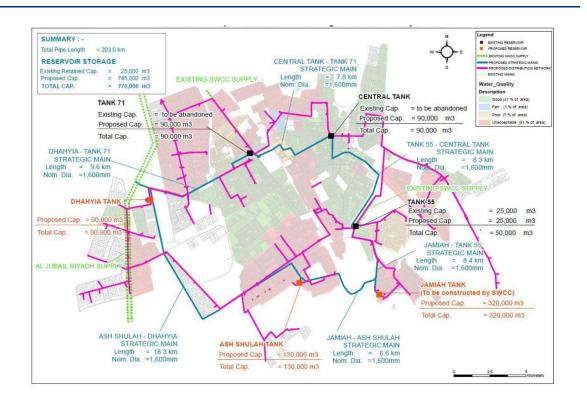


Figure 3: Layout of the proposed measure (sources: NWC - Project requirements – Dammam project 2 – Rev Feb 2021)

## 1.2 Focus of the study

As mentioned above, Dammam water Improvement program is divided into five projects. This document is only focused Dammam 5.

### 1.2.1 Project Number 5 (Dammam 5)

This project includes both the strategic loop and the distribution network between Jamiah and Central tanks, along with storage and pump station upgrades at Central Tank, Tank 55 and Jameah, Figure 4.





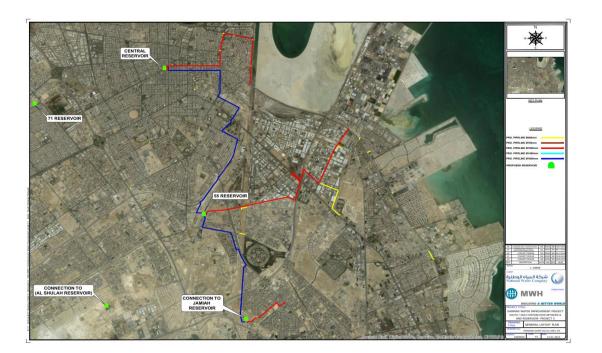


Figure 4: Dammam 5 proposed water network (sources: NWC - Project requirements – Dammam project 2 – Rev Feb 2021)

The length of the proposed is about 17 km of 1400 mm and 1600 mm diameters, from Jamia reservoir to Tanks 55 and central tanks. Also, it includes about 23 km of 400mm and 1,000 mm diameters of distribution lines.

#### **Reservoirs:**

A) Central Reservoir

2 service reservoirs, Storage Capacity for each: 45,000 m<sup>3</sup>) Total Capacity = total 90,000 m<sup>3</sup>.

B) Tank 55

1 service reservoir, Storage Capacity: 25,000 m3).

C) Construction of a new reservoir in Jameah with the capacity of the 100,000  $$\rm m^3$$ 

#### **Pump Stations:**

Following in the Table 2 are the specifications of the Pump stations for upgrading/construction in the Dammam 5:





Table 2- Pumps specifications in Dammam 5 (Source: RFP and Master Plan)

Pump	Normal Ope	erating Point	Pump	Nb of pumps	
Stations Site	Flow (I/s) Head lift (m)		type		
Central Tank PS	4,500	50	VFD*	3 duty + 1 standby	
Tank 55 PS	2400	40	VFD	2 duty + 1 standby	
Jameah PS	250	35	VFD	1 duty + 1 standby	
Aramco Emergency Booster	350	60	VFD	1 duty + 1 standby	

\* Variable Frequency Drive (VFD)





### 3 HYDRAULIC SIMULATION

## 3.1 Model Modification and Adjustments

Per the submitted technical memo and Request for Information (RFI), the received model did not match exactly the RFP, especially concerning storages, pumps, and Pressure Reducing Valves (PRV) in the water system under the scope of Dammam 2 and Dammam 5 Projects. Therefore, a few major modifications (explained below) are made to the model to match the RFP. Then both the original received model (without changes) and the modified model (with the changes) are simulated. The results are presented below for comparisons and decisions making.

The following three significant modifications are made in the original received model to match the RFP:

### 1.2.2 Storages

In the original model, Tank 71, Tank Central, and Tank 55 were modelled as the reservoir with constant head. In the RFP, these are tanks, and to match the RFP, these reservoirs have been changed to tanks with their updated dimension supplied by the client. The details are provided in the following Table 3. Please note that the Diameters in Table 3 are equivalent diameters for a set of tanks except Jamiah Tank.

Site	Number of tanks	Networking capacity of each tank (m <sup>3</sup> )	Diameter (m)	Tank Height (m)	Water Height (m)	Ground elevation (m)
DHAHYIA_TANK	2	45,000	48.0	25.8	25.4	4.5
JAMIAH_TANK	1	100,000	81.0	20.4	20.0	90.7
TANK 55	1	25,000	40.0	20.9	20.5	35.0
TANK 71	2	45,000	58.6	17.6	17.2	8.0
TANK_CENTRAL	2	45,000	50.0	23.9	23.5	3.9

Table 3 - Tanks Details in Dammam 2 and 5

### 1.2.3 Pumps

The pump stations in the scope of Dammam 2 and Dammam 5 have been updated according to RFP. The pump curves have been added, and the pumps' Variable Speed Drive (VSD) properties are defined for the operation pumps. It is assumed that the pump can be operated within the range of 60% to 120 % of its rotation speed except for Dhahyia (which is between 40% - 100% of its rotation speed as it is a pump with an enormous capacity). The VSD is controlled by the pressure of a remote junction point in the system ranging between 3.5 to 4 bar. Table 4 and Table 5 provide the details of the pumps.





Pump Stations	Type of input	Design Head (m)	Design Flow (lps)	Curve ID
Central	Multiple Point Curve	50	4,500.00	CENTRAL_TANK_PS_NRY
Dhahiya Strategic	Multiple Point Curve	150	5,250.00	DHAHIYASTRATEGICOPTION2PS1_NRY
Dhahiya Network	Multiple Point Curve	50	2,350.00	DAHIAY_PUMP_NRY
Jamiah	Multiple Point Curve	35	250	JAMIAH_PS_NRY
Tank 55	Multiple Point Curve	30	2,400.00	MEW_TANK_55_PS_NRY
Tank 71	Multiple Point Curve	40	2,400.00	TANK_71_PS_NRY

#### Table 4 - Pump Details in the model within the Scope of Dammam 2 and 5

#### Table 5- Details of the VSD properties of the Pumps

Pumps ID	Control Type	Control Setting (bar)	Control Element Node	Maximum Speed	Minimum Speed
CENTRAL_TANK_PS	Junction Pressure	4	DMM_18604	1.2	0.6
DHAHYIA_PUMP	Junction Pressure	4	DMM_JUN_3038	1	0.4
JAMIAH_PS	Junction Pressure	4	DMM_14483	1.2	0.6
MEW_TANK_55_PS	Junction Pressure	4	DMM_JUN_2794	1.2	0.6
TANK_71_PS	Junction Pressure	3.5	DMM_JUN_1966	1.2	0.6

### 1.2.4 Valves

In the original model, around 68 different Valves were introduced in the scope of Dammam 2 and Dammam 5. However, these valves were not according to the RFP. After modification of the model to match the RFP and the requirements of the Design Bases, only the following Valves are kept active in the model, presented in Table 6. The settings of the valves are kept as the original model, and it is not changed during the modelling phase. Only the PRV (DMAV317) is a newly introduced PRV instead of (PRV-32) in its upstream (coordinates x=414664.17, y=2914254.70). This newly introduced PRV will reduce the pressure in the South part of Jamiah network (towards AL Khobar). The rest of the valves were assumed to be inactive and not considered in the hydraulic modelling.





Table 6- Active valves information in the controlling flow to Dammam 2 and 5 scope

ID	Туре	Settings
FCV-3	Flow Control Valve	6,400.00 (l/s)
FCV-2	Flow Control Valve (out of SOW)	5,200.00 (l/s)
FCV_TANK55	Flow Control Valve	2,200.00 (l/s)
FCV_CENTRAL_TANK	Flow Control Valve (out of SOW)	2,000.00 (l/s)
FCV_TANK71	Flow Control Valve (out of SOW)	1,140.00 (l/s)
PRV-7	Pressure Reducing Valve	3.5 (bar)
PRV-5	Pressure Reducing Valve	3.1 (bar)
PRV-20	Pressure Reducing Valve	2.47 (bar)
DMAV317	Pressure Reducing Valve (New valve)	3 (bar)

## 1.3 Proposed Water Supply System (Option)

As per the multi-criteria evaluation conducted in the master plan of Dammam, Parent Scenario "Option 2 in the model" is the most optimal Option recommended as a future water supply strategy target year 2050 for Dammam City.

The proposed Option 2, with supply from Dhahiya, Jamiah and KFMC strategic reservoirs is the preferred option Figure 5.

Dhahiya strategic reservoir is supplying Dhahiya, Tank 71 and Shulah are operational tanks under normal operating scenario and may supply Central Tanks as well under an emergency scenario. Dhahiya operational tank is supplied directly from the nearby strategic tank and the remaining operational tanks are supplied by pumping.

On the other hand, Jamiah strategic reservoir supplies the nearby operational reservoir and Tank 55 and Central Tanks by gravity under the normal operating scenario. Under an emergency scenario, Jamiah strategic reservoir can supply the seven operational reservoirs by gravity.

KFMC strategic reservoir is only supplying the nearby operational reservoir.

Dhahiya reservoir supplies the transmission loop by pumping, and Jamiah strategic reservoir supplies the loop by gravity. In case of failure of Dhahiya strategic reservoir PS, the transmission loop may be supplied directly from the connection to Jubail Riyadh bulk water transmission line and Jamiah strategic reservoir. Should a major break occur on any section of the transmission loop, water can be delivered from both strategic reservoirs via the other route/sections of the loop.

The primary distribution network from the six main operational tanks (Dhahiya, Tank 71, Central Tank, Tank 55, KFMC and Shulah) consists of a 1000 mm looping





lines; thus the continuity of supply can be ensured should a distribution PS fails or a major break occur on any section Figure 6.

Also, the area supplied by pumping from Jamiah operational tank can alternatively be supplied from operational Tank 55 PS. Similarly, the area supplied from KFMC operational tank can be supplied from either Dhahiya or Shulah operational tanks.

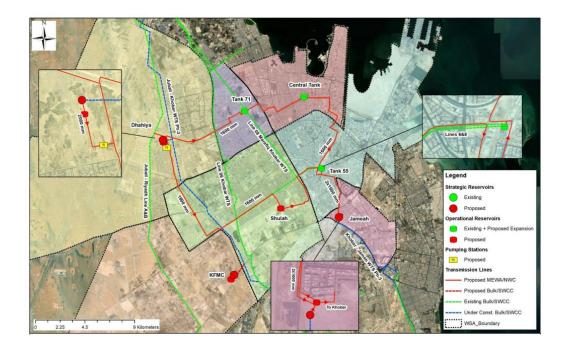


Figure 5- Dammam Proposed Water System Strategy (source: Master Plan)

According to the master plan, in the model within the Option 2 context, the peak daily demand is set to 722073 m<sup>3</sup>/day, while for the (2050 ADD + Fire), it was found to be 660492 m<sup>3</sup>/day. The demand allocation is not changed during the simulation and is kept as the received model (as stated in the master plan table 5).

Moreover, according to the master plan for the year 2050, the target capacity of the network should be such that the transmission mains should be able to cater to the Peak Daily Demand (PDD) while the distribution system should be able to supply the Peak Hourly Demand for the same year (table 6).





Table 7: 2020 - 2050 Peak Daily Demands PDD (source: Dammam Master Plan)

	Operational	Operational	Tank Capacity i	n 2050 (m³)	PDD Demand (m <sup>s</sup> /day)						
City Tank / Water Distribution Complex (WDC)	Existing	Proposed	Total	2020	2025	2030	2035	2040	2045	2050	
	Dhahiya		90,000 (1)	90,000	67,780	70,423	68,521	70,793	74,651	78,755	83,030
	Tank 71	48,000	90,000 (1)	138,000	80,778	82,844	78,742	81,827	87,062	92,632	98,433
	Central Tanks	22,340	90,000 (1)	112,340	148,802	152,607	145,052	150,734	160,378	170,639	181,325
	Tank 55	25,000	25,000 (1)	50,000	93,126	111,283	123,598	134,492	149,012	165,756	185,002
Dammam	Ash Shulah		135,000 (1)	135,000	29,049	30,181	29,366	30,340	31,993	33,752	35,584
	KFMC		100,000	100,000	62,212	63,082	61,355	62,653	64,858	67,203	69,646
	Jameah		100,000 (1)	100,000	56,833	58,286	55,401	57,571	61,254	65,174	69,255
	Total (m3/day)	95,340	630,000	725,340	538,580	568,706	562,035	588,411	629,207	673,912	722,274

(1) Proposed part of the Water Quality Improvement Projects

Table 8: Target Capacity of Water Supply System in Dammam (Source: Dammam Master Plan)

Veer	Maximum Capacity	Target Capacity of Future Wa	ater Supply System (m³/day)
Year	of Existing System (m³/day)	Transmission System	Distribution System
Existing (2020)	538,580	-	-
2025	-	568,706	1,182,909
2030	-	562,035	1,169,032
2035	-	588,411	1,223,895
2040	-	629,207	1,308,750
2045	-	673,912	1,401,737
2050	-	722,274	1,502,331

### 1.4 Scenario One – 2050 Peak Daily Demand (PDD)

For the target year 2050, the proposed Option 2 is simulated with Peak Daily Demand and hourly variable demand pattern. The objective was to evaluate the system's performance against different flow rates during the day, focusing on the peak hourly demand, which will result in minimum pressure and high velocities, and the minimum hourly demand during the day, which will result in maximum pressure in the system and low velocities.

Figure 7 shows the hourly demand pattern with the peak multiplier of 2.08 to simulate the peak hourly demand during the day, and the minimum multiplier of 0.52 to simulate the minimum hourly demand during the day.





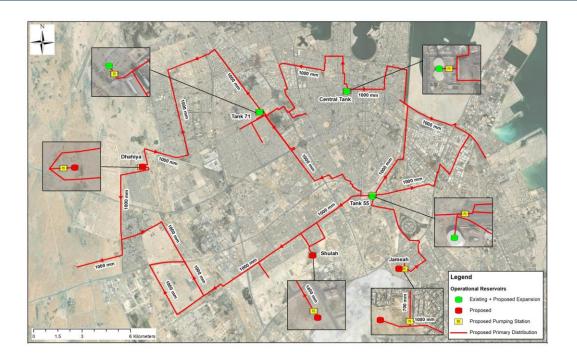


Figure 6: Dammam City Planned/Future Water Distribution Network Main Structure as per Water Quality Improvement Projects (Source: Master Plan)

The values of peak multiplier are based on using peak day factor of 1.2 and the peak hour factor is 2.5, since the base demand in the model is settled to:

Peak Daily Demand – PDD	Peak Hourly Demand -PHD
PDD = 1.20 x ADD	PHD = 2.50 x ADD
PHD = 2.50 x PDD / 1.20	PHD = 2.08 x PDD

Accordingly, the hourly demand pattern should have a maximum peak multiplier of 2.08 and a minimum of 0.52.

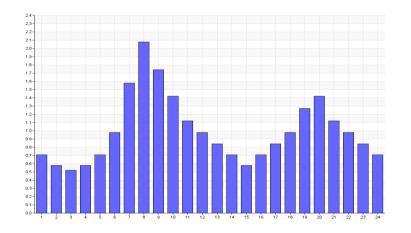


Figure 7: Dammam hourly demand pattern





### 1.4.1 Minimum Residual Pressure, Maximum Velocity -Peak Hourly Demand

Within Scenario One, the network's minimum residual pressure and maximum velocity were investigated during the Peak hour in the two models.

Figure 8 shows the minimum residual pressure in the original received model (without changing the defined pumps operating points and PRVs), at each node. The minimum achieved residual pressure during peak hourly demand within the scope of the Dammam 2 and 5 projects is around 1.45 bar.

After the mentioned-above modifications, the model has been simulated to evaluate the minimum residual pressure in the system.

Figure 9 shows the minimum residual pressure in the modified model at each node during the peak hourly demand, where the minimum pressure is 1.72 bar for junctions supplied within the scope of work of Dammam 2 and Dammam 5 modified system, excluding a couple of nodes on the suction side of the pump stations. In all Dammam water system, few points with black or blue colors are either closed or at proximity of the pumps. The orange points are slightly above 4 bar pressure which is still acceptable.

A comparison of the two models shows that by removing several PRVs and adding the VSD properties of the pumps with the mentioned above settings, the water system will perform better during the peak hours with overall energy efficiency.

Figure 10 shows the maximum velocities during the peak hour of the original receive model for Dammam water system. The maximum observed velocity within the scope of Dammam project is around 1.92 m/s.

Similarly, Figure 11 presents the maximum velocity during peak hours in the modified model within Dammam 2 and Dammam 5 scopes, which is 1.95 m/s. However, the strategic gravity main 1600mm diameter (purple colored) from Jamiah to Tank 55 has a slightly more constant velocity at around 2.17 m/s.

The velocity comparison of the two models shows that the modifications also slightly increase velocities within the range of design bases. However, some of the pipes in the Dammam 2 and Dammam 5 scopes and most of the pipes in all Dammam system has velocities lower than 0.3 m/s (which is the minimum limit in the design bases).

Tables 8 and 9 show the junction and pipes properties respectively during this scenario.





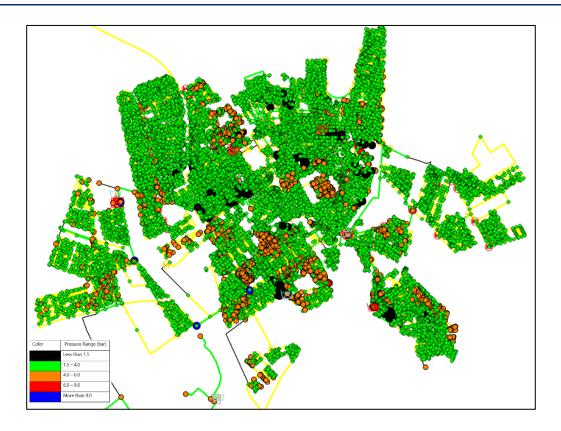


Figure 8- - Original Model-Minimum residual pressure at nodes during the peak hour (Scenario 1)

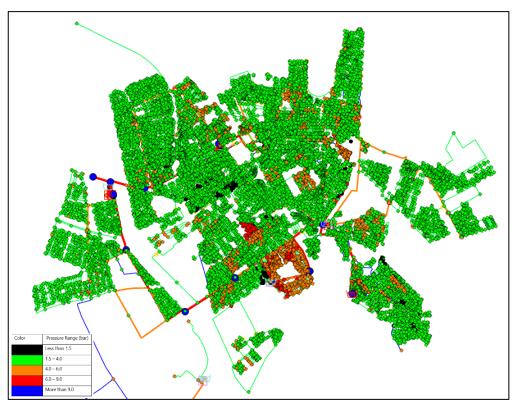


Figure 9- Modified Model-Minimum residual pressure at nodes during the peak hour (Scenario 1)





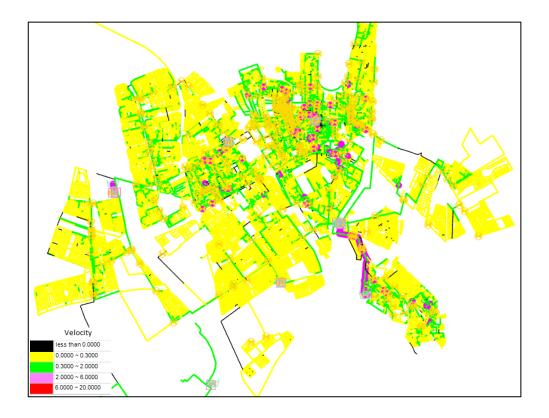


Figure 10- Original Model- Maximum water velocities during the peak hour (Scenario 1)





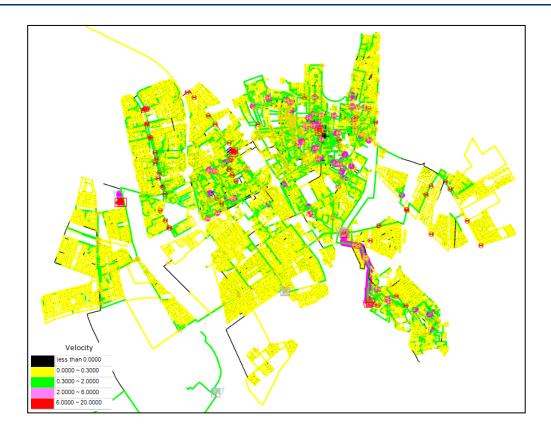


Figure 11- Modified Model- Maximum water velocities during the peak hour (Scenario 1)





Table 9: Table for junctions within Dammam 2 and 5 at the peak demand hour within scenario 1

ID	Demand	Elevation	Head	Pressure
10	(L/s)	(m)	(m)	(bar)
DMM_JUN_2974	0.0000	5.0000	43.9558	3.8174
DMM_JUN_2970	0.0000	5.0000	43.8466	3.8067
DMM_JUN_2972	0.0000	5.0000	43.8822	3.8102
DMM_JUN_3006	0.0299	5.0000	41.9805	3.6238
DMM_JUN_3004	0.1246	4.0000	41.9719	3.7209
DMM_JUN_3002	0.6118	4.0000	41.9746	3.7212
DMM_JUN_2856	0.2326	5.0000	41.9906	3.6248
DMM_JUN_2858	0.8586	2.0000	42.0632	3.9259
DMM_JUN_3000	1.2652	6.0000	42.1387	3.5413
DMM_3879	0.0050	6.0000	42.1384	3.5413
DMM_JUN_2860	1.5997	3.0000	42.3088	3.8520
DMM_JUN_2854	0.5085	6.0000	42.4783	3.5746
DMM_JUN_2996	0.0389	6.0000	42.4988	3.5766
DMM_JUN_2994	0.0200	6.0000	42.4989	3.5766
DMM_JUN_2852	0.1722	4.0000	42.8267	3.8047
DMM_JUN_3374	0.1795	3.0000	42.9980	3.9195
DMM_JUN_3372	0.6022	3.0000	43.0450	3.9241
DMM_JUN_2626	0.4247	3.0000	43.0872	3.9282
DMM_JUN_2638	0.3717	6.0000	43.0431	3.6299
DMM_JUN_3008	0.0414	5.0000	43.0373	3.7274
DMM_JUN_2690	0.5215	7.0000	42.9901	3.5267
DMM_JUN_3010	0.0660	2.0000	42.9893	4.0166
DMM_JUN_3012	0.3108	6.0000	42.9616	3.6219
DMM_JUN_2636	0.3336	4.0000	42.9041	3.8123
DMM_JUN_3014	0.0480	7.0000	41.6544	3.3959
DMM_JUN_3016	0.1966	5.0000	42.8923	3.7132
DMM_JUN_3024	0.3534	7.0000	42.8855	3.5165
DMM_JUN_3026	0.1339	6.0000	42.8645	3.6124
DMM_JUN_2692	0.7153	6.0000	42.8629	3.6123
DMM_JUN_3020	0.2896	6.0000	42.7859	3.6047
DMM_JUN_2740	0.1398	11.0000	42.6245	3.0990
DMM_JUN_3018	0.0174	4.0000	41.0878	3.6343
DMM_7590	0.0702	10.0000	42.6169	3.1962
DMM_JUN_3022	0.1367	4.0000	42.7800	3.8001
DMM_JUN_3028	0.2469	4.0000	42.8306	3.8051





ID	Demand	Elevation	Head	Pressure
	(L/s)	(m)	(m)	(bar)
DMM_JUN_2634	0.2259	4.0000	42.8288	3.8049
DMM_JUN_3032	0.0162	4.0000	42.8130	3.8034
DMM_JUN_3030	0.0532	6.0000	42.3716	3.5641
DMM_JUN_3038	0.1950	2.0000	42.8086	3.9989
DMM_JUN_2632	0.2114	2.0000	42.8074	3.9988
DMM_JUN_3040	0.0136	2.0000	42.7892	3.9970
DMM_JUN_3034	0.0949	2.0000	42.7992	3.9980
DMM_JUN_2640	0.4888	2.0000	42.8034	3.9984
DMM_JUN_2654	0.3515	3.0000	42.8016	3.9002
DMM_JUN_2630	0.1887	3.0000	42.7697	3.8971
DMM_JUN_3042	0.2766	2.0000	42.7663	3.9948
DMM_JUN_276	0.1220	5.0000	42.6996	3.6943
DMM_JUN_3044	0.1868	4.0000	42.7608	3.7982
DMM_JUN_3046	0.0524	4.0000	42.8012	3.8022
DMM_JUN_3048	0.0740	4.0000	42.5519	3.7778
DMM_JUN_2730	0.1943	4.0000	42.7979	3.8019
J-14	0.4910	4.3951	42.7979	3.7632
DMM_JUN_2656	0.0000	11.0000	44.8555	3.3176
DMM_JUN_2732	0.0744	5.0000	44.8555	3.9055
DMM_JUN_3052	0.0213	4.0000	44.8555	4.0035
DMM_JUN_3054	0.0400	4.0000	44.6193	3.9804
DMM_JUN_2734	0.0872	3.0000	44.8555	4.1015
DMM_JUN_3058	0.0128	2.0000	44.8555	4.1995
DMM_JUN_3378	0.0278	7.0000	44.8555	3.7095
DMM_JUN_3376	0.0130	7.0000	44.7586	3.7000
DMM_JUN_3062	0.0060	3.0000	44.8555	4.1015
DMM_JUN_2736	1.5041	1.0000	44.8557	4.2975
DMM_JUN_3064	0.0935	7.0000	44.8563	3.7096
DMM_JUN_3066	0.0037	7.0000	44.8498	3.7090
DMM_JUN_3070	0.0140	7.0000	44.8493	3.7089
DMM_JUN_3068	0.0162	7.0000	44.8486	3.7089
DMM_JUN_2738	0.3488	18.0000	44.8597	2.6320
DMM_2915	0.0037	12.0000	44.8572	3.2198
DMM_JUN_2976	0.4470	6.0000	44.8648	3.8084
DMM_JUN_2980	0.5388	6.0000	44.8664	3.8086





ID	Demand	Elevation	Head	Pressure
	(L/s)	(m)	(m)	(bar)
DMM_JUN_2962	0.0000	6.0000	184.6639	17.5077
DMM_JUN_2978	2.2105	6.0000	44.8533	3.8073
J52	0.0000	0.0000	17.0006	1.6659
J54	0.0000	0.0000	16.9992	1.6658
DMM_JUN_2960	0.0000	3.0000	184.6786	17.8031
DMM_JUN_3284	1.0369	10.0000	44.7227	3.4026
DMM_JUN_3282	0.2014	10.0000	44.7249	3.4028
DMM_JUN_2390	0.0229	10.0000	44.7243	3.4027
DMM_JUN_2392	0.0206	15.0000	44.7237	2.9127
DMM_3406	0.0037	15.0000	44.7236	2.9127
DMM_JUN_3348	0.0509	15.0000	44.7236	2.9127
DMM_JUN_3350	0.3793	15.0000	44.7174	2.9121
DMM_JUN_2394	0.0612	15.0000	44.7067	2.9110
DMM_JUN_2814	0.1445	11.0000	44.7210	3.3044
DMM_JUN_3288	0.3113	12.0000	44.7134	3.2057
DMM_JUN_3286	0.2024	12.0000	44.7088	3.2052
DMM_JUN_2816	0.2833	12.0000	44.7118	3.2055
DMM_JUN_3290	0.2874	13.0000	44.7076	3.1071
DMM_JUN_3292	0.2440	13.0000	44.7084	3.1072
J30	0.0000	13.0000	44.2449	3.0618
DMM_JUN_3300	0.1760	10.0000	44.7059	3.4009
DMM_JUN_3298	0.1353	10.0000	44.7049	3.4008
J28	0.0000	10.0000	44.0682	3.3384
DMM_JUN_2818	0.5248	14.0000	44.7057	3.0089
DMM_JUN_2812	0.2905	14.0000	44.7052	3.0089
DMM_JUN_3296	1.4929	14.0000	44.7046	3.0088
DMM_JUN_3294	0.6635	14.0000	44.7024	3.0086
DMM_JUN_3354	0.2385	12.0000	43.3056	3.0677
DMM_JUN_3360	0.0026	11.0000	43.3507	3.1701
DMM_JUN_3358	0.1331	11.0000	43.3503	3.1701
DMM_JUN_3356	0.1284	11.0000	43.3520	3.1702
DMM_JUN_2806	0.8949	9.0000	43.3745	3.3684
DMM_2856	0.3510	12.0000	43.2439	3.0617
DMM_JUN_3380	0.1990	9.0000	43.3955	3.3705
DMM_JUN_3382	0.2858	9.0000	43.3909	3.3700





ID	Demand	Elevation	Head	Pressure
10	(L/s)	(m)	(m)	(bar)
DMM_JUN_3302	0.2857	3.0000	44.1676	4.0341
DMM_JUN_2294	0.0198	3.0000	44.1685	4.0342
DMM_JUN_2810	0.3059	12.0000	43.6918	3.1055
DMM_JUN_3352	0.1100	12.0000	43.6851	3.1049
DMM_846	0.2012	17.0000	45.8962	2.8316
DMM_JUN_3138	0.0445	11.0000	45.9350	3.4234
DMM_JUN_3384	0.0549	4.0000	45.9289	4.1087
DMM_JUN_3142	0.1694	6.0000	45.9668	3.9164
DMM_JUN_2744	0.1843	6.0000	45.9664	3.9164
DMM_JUN_3386	0.1866	6.0000	45.9220	3.9120
DMM_JUN_2746	0.2536	2.0000	46.0212	4.3137
DMM_JUN_3148	0.7557	8.0000	46.1596	3.7393
DMM_JUN_3146	0.0644	8.0000	46.1050	3.7340
DMM_JUN_2762	0.1188	5.0000	46.3562	4.0526
DMM_JUN_3388	0.0917	7.0000	46.3342	3.8544
DMM_2002	0.0481	3.0000	46.2277	4.2360
DMM_JUN_2764	0.0290	6.0000	46.4645	3.9652
DMM_JUN_3150	0.0233	2.0000	46.4303	4.3538
DMM_JUN_2766	0.4083	4.0000	46.5006	4.1647
DMM_JUN_2768	0.0434	5.0000	46.7374	4.0899
DMM_JUN_3152	0.0475	5.0000	46.7212	4.0884
DMM_JUN_2982	0.0455	5.0000	47.2366	4.1389
J58	0.0000	0.0000	15.8992	1.5580
DMM_JUN_2986	0.0436	5.0000	47.2449	4.1397
J56	0.0000	0.0000	15.9014	1.5582
DMM_JUN_2944	0.0000	7.0000	84.3525	7.5799
DMM_JUN_2942	0.0000	10.0000	85.3274	7.3815
DMM_JUN_2940	0.0000	12.0000	85.7706	7.2289
DMM_JUN_2938	0.0000	9.0000	85.9595	7.5414
DMM_JUN_2936	0.0000	16.0000	86.3023	6.8891
DMM_JUN_2934	0.0000	12.0000	86.7360	7.3235
DMM_JUN_2932	0.0000	21.0000	87.5142	6.5179
DMM_JUN_2930	0.0000	29.0000	88.9023	5.8700
DMM_JUN_3280	0.0000	33.0000	89.0504	5.4925
DMM_JUN_2428	0.0000	32.0000	89.0128	5.5868





ID	Demand	Elevation	Head	Pressure
10	(L/s)	(m)	(m)	(bar)
DMM_19836	0.0000	38.0000	88.9837	4.9960
J60	0.0000	37.0000	44.9972	0.7837
J62	0.0000	0.0000	45.0021	4.4098
DMM_JUN_3276	0.0000	37.0000	44.9836	0.7823
DMM_JUN_3278	0.0320	38.0000	67.9501	2.9349
DMM_JUN_3174	0.0173	30.0000	44.9186	1.4619
DMM_1160	0.0118	31.0000	67.9397	3.6198
21665-B	0.0000	27.0000	67.9392	4.0117
DMM_JUN_2794	4.7748	27.0000	67.8086	3.9989
DMM_JUN_2796	0.0197	33.0000	67.8074	3.4109
DMM_JUN_3176	0.0043	31.0000	67.8070	3.6068
DMM_JUN_2678	0.0080	16.0000	67.7553	5.0716
DMM_JUN_3418	0.0034	15.0000	50.9568	3.5235
DMM_JUN_2680	0.0213	14.0000	67.6681	5.2591
DMM_6709	0.5005	19.0000	50.8292	3.1190
DMM_JUN_2790	0.5765	21.0000	67.6495	4.5713
DMM_JUN_3182	0.0309	21.0000	50.9213	2.9321
DMM_JUN_2788	0.1239	10.0000	41.6259	3.0991
J-23	0.0000	10.2337	67.5728	5.6188
DMM_6915	0.0131	15.0000	41.6179	2.6083
DMM_JUN_3186	0.0853	16.0000	41.5349	2.5022
DMM_JUN_2684	0.0480	10.0000	41.4628	3.0831
DMM_JUN_3188	0.0103	5.0000	41.4603	3.5728
DMM_JUN_2682	0.0819	5.0000	41.4304	3.5699
DMM_5853	0.1199	5.0000	41.4281	3.5697
DMM_JUN_3190	0.0636	7.0000	41.3854	3.3695
DMM_JUN_3192	0.0628	2.3782	41.3517	3.8191
DMM_JUN_3194	0.0145	5.5318	41.3469	3.5096
DMM_5301	0.0917	4.0000	41.3274	3.6578
DMM_JUN_2802	0.1319	3.0000	41.3292	3.7560
197	0.0078	5.3500	41.3061	3.5234
10789	0.0377	5.1300	41.3058	3.5449
5447	0.0063	2.0000	41.3002	3.8511
10800	0.0037	2.0000	41.3002	3.8511
10795	0.0000	1.7300	41.3060	3.8781





	Domond	Elevation	Head	Dracourc
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (bar)
196	0.0000	1.7000	41.3060	3.8811
DMM_JUN_3184	0.0745	9.0000	41.5067	3.1854
DMM_3337	0.0802	7.0000	46.6548	3.8859
DMM JUN 3320	0.0541	7.0000	46.6481	3.8852
DMM_JUN_2984	0.1553	5.0000	47.2413	4.1393
DMM_JUN_2776	0.8395	11.0000	47.1016	3.5377
DMM_JUN_2778	0.3757	17.0000	47.0202	2.9417
DMM_JUN_3158	0.2683	17.0000	47.0048	2.9402
DMM JUN 2884	1.1289	17.0000	47.0156	2.9413
DMM_JUN_2780	0.0173	8.0000	46.8596	3.8079
DMM_JUN_3160	0.1470	8.0000	46.8526	3.8072
DMM 1813	0.1888	5.0000	46.8388	4.0999
DMM_17921	0.0707	9.0000	42.3181	3.2649
DMM_17321	0.1062	5.0000	46.8057	4.0966
DMM_JUN_3162	0.0023	2.0000	46.7811	4.3882
DMM_JUN_3416	0.0640	7.0000	46.7920	3.8993
DMM_JUN_3414	0.0731	7.0000	46.7253	3.8928
DMM_JUN_3164	0.0294	7.0000	46.7900	3.8991
DMM_12447	0.1067	8.0000	37.3333	2.8744
DMM_JUN_3312	0.1956	4.0000	46.7867	4.1928
DMM_JUN_2600	0.0000	4.0000	46.7864	4.1927
DMM_3191	0.2761	7.0000	46.5203	3.8727
DMM_1781	0.4861	8.0000	46.4379	3.7666
DMM_JUN_3316	0.0070	5.0000	46.7817	4.0943
DMM_JUN_3318	0.0470	5.0000	46.7810	4.0942
DMM_JUN_3314	0.0573	4.0000	46.7811	4.1922
DMM_JUN_3156	0.3148	17.0000	46.7492	2.9152
DMM_JUN_3154	0.2548	17.0000	46.6225	2.9028
DMM_JUN_3178	0.0176	37.0000	67.8021	3.0184
DMM_6695	0.0153	38.0000	67.8021	2.9204
DMM_JUN_2926	0.0000	38.0000	89.2352	5.0207
DMM_JUN_2928	0.0000	35.0000	89.4170	5.3324
DMM_JUN_2924	0.0000	35.0000	89.5797	5.3484
DMM_JUN_2922	0.0000	42.0000	90.7364	4.7758
DMM_JUN_2918	0.0000	40.0000	96.1545	5.5027
2011_2011_2010				
15	Demand	Elevation	Head	Pressure
ID	(L/s)	(m)	(m)	(bar)
DMM_JUN_2920	0.0000	80.0000	100.6761	2.0261
DMM_14474	0.0176	89.0000	115.2824	2.5755
DMM_JUN_2846	1.0038	89.0000	115.2824	2.5755
DMM_6953	0.0327	42.0000	67.9449	2.5424
DMM_JUN_3260	230.1531	80.0000	100.6494	2.0235
DMM_JUN_2844	0.0170	89.0000	115.3187	2.5790
DMM_5840	0.0000	89.0000	115.3187	2.5790
DMM_5339	0.1200	91.0000	115.2961	2.3808
DMM_JUN_2840	0.3604	95.0000	115.2963	1.9889
DMM_5340	0.1147	74.0000	115.1601	4.0334
DMM .ILIN 2838	0.6111	71,0000	115 1601	4 3273

ID	Demand	Elevation	Head	Pressure
ID.	(L/s)	(m)	(m)	(bar)
DMM_JUN_2920	0.0000	80.0000	100.6761	2.0261
DMM_14474	0.0176	89.0000	115.2824	2.5755
DMM_JUN_2846	1.0038	89.0000	115.2824	2.5755
DMM_6953	0.0327	42.0000	67.9449	2.5424
DMM_JUN_3260	230.1531	80.0000	100.6494	2.0235
DMM_JUN_2844	0.0170	89.0000	115.3187	2.5790
DMM_5840	0.0000	89.0000	115.3187	2.5790
DMM_5339	0.1200	91.0000	115.2961	2.3808
DMM_JUN_2840	0.3604	95.0000	115.2963	1.9889
DMM_5340	0.1147	74.0000	115.1601	4.0334
DMM_JUN_2838	0.6111	71.0000	115.1601	4.3273
DMM_JUN_2842	0.0460	53.0000	83.3984	2.9788
DMM_5812	0.0198	51.0000	76.8195	2.5301
J-49	0.1208	53.0000	83.6053	2.9991





Table 10: Table for pipes within Dammam 2 and 5 at the peak demand hour within scenario 1

ID	From Node	To Node	Length	Diameter			Velocity	Headloss	HL/1000	Status
			(m)	(mm)	(mm)	(L/s)	(m/s)	(m)	(m/k-m)	
P-30	FCV-3	DHAHYIA_TANK		2,000.0000	0.3000	14,016.7762	4.4617	0.9092	5.7483	Open
P-29	HIYASTRATEGICT			2,000.0000	0.3000	14,016.7762	4.4617	2.4149	5.7483	Open
DHAHIYA_OUTLET	DHAHYIA_TANK	DHAHYIA_PUMP	90.4825	1,400.0000	0.3000	1,801.9848	1.1706	0.0659	0.7282	Open
P11	DHAHYIA_TANK	ASTRATEGICOPTIC		1,600.0000	0.3000	3,700.0655	1.8403	0.1585	1.5098	Open
P15	DHAHYIA_TANK	ASTRATEGICOPTIC		1,600.0000	0.3000	0.0000	0.0000	0.0000	0.0000	Closed
P17	ASTRATEGICOPTI	J-68	109.0136	1,600.0000	0.3000	0.0000	0.0000	0.0000	0.0000	Closed
P13	ASTRATEGICOPTI		108.7711	1,600.0000	0.3000	3,700.0655	1.8403	0.1642	1.5097	Open
DMM_PIP_3041	DMM_VAL_8180	DMM_JUN_2974	88.9742	1,400.0000	0.3000	1,801.9848	1.1706	0.0648	0.7282	Open
DMM_PIP_3039	DHAHYIA_PUMP	DMM_VAL_8180	86.3150	1,400.0000	0.3000	1,801.9848	1.1706	0.0629	0.7282	Open
DMM_PIP_2095	DMM_JUN_2974	DMM_VAL_8188	328.9556	1,000.0000	0.3000	1,183.7512	1.5072	0.5912	1.7971	Open
DMM_PIP_2143	DMM_JUN_2974	DMM_VAL_8190	312.4777	1,000.0000	0.3000	618.2335	0.7872	0.1574	0.5036	Open
DMM_PIP_3059	DMM_VAL_8190	DMM_JUN_2972	193.3053	1,000.0000	0.3000	618.2335	0.7872	0.0973	0.5036	Open
DMM_PIP_3057	DMM_VAL_8188	DMM_JUN_2970	165.8876	1,000.0000	0.3000	1,183.7512	1.5072	0.2981	1.7971	Open
P19	J-68	DMM_JUN_2900	11.0483	1,600.0000	0.3000	-1,139.9998	0.5670	0.0017	0.1515	Open
DMM_PIP_3109A	DMAV34	DMM_JUN_3002	151.4414	400.0000	0.3000	38.4727	0.3062	0.0380	0.2511	Open
DMM_PIP_3109	DMM_JUN_3006	DMAV34	23.4707	400.0000	0.3000	38.4727	0.3062	0.0059	0.2512	Open
DMM_PIP_3107	DMM_JUN_3006	DMAV35	17.5910	400.0000	0.3000	80.7682	0.6427	0.0184	1.0438	Open
DMM_PIP_2761	DMM_JUN_2856	DMM_JUN_3006	35.6976	400.0000	0.3000	119.3284	0.9496	0.0796	2.2305	Open
DMM_PIP_3107A	DMAV35	DMM JUN 3004	46.7041	400.0000	0.3000	80.7682	0.6427	0.0487	1.0437	Open
DMM_PIP_2747	DMM_JUN_2858	DMM JUN 2856	255.6478	400.0000	0.3000	120.0098	0.9550	0.5766	2.2555	Open
DMM_PIP_3099	DMM JUN 3000	DMM JUN 2858	255.0532	400.0000	0.3000	122.5252	0.9750	0.5991	2.3488	Open
DMM_PIP_3101	DMM_JUN_3000	DMAV33	2.5392	400.0000	0.3000	34.6718	0.2759	0.0005	0.2061	Open
DMM_PIP_2749	DMM_JUN_2860	DMM JUN 3000	342.7624	400.0000	0.3000	160.9035	1.2804	1.3727	4.0048	Open
DMM_PIP_2749 DMM_PIP_3101A	DMAV33	DMM_3014_3000	5.0712	400.0000	0.3000	34.6718	0.2759	0.0010	0.2059	Open
		DMM_3879	0.6716	197.3000	0.3000	-34.6570	1.1336	0.0010	7.6143	Open
DMM_8544	DMM_3563									
DMM_PIP_2745	DMM_JUN_2854	DMM_JUN_2860	323.1590	400.0000	0.3000	165.5900	1.3177	1.3692	4.2370	Open
DMM_PIP_3093	DMM_JUN_2996	DMM_JUN_2854	38.4895	400.0000	0.3000	167.0796	1.3296	0.1660	4.3122	Open
DMM_PIP_3095	DMM_JUN_2996	DMAV32	5.2456	400.0000	0.3000	-11.8430	0.0942	0.0001	0.0275	Open
DMM_PIP_2743	DMM_JUN_2852	DMM_JUN_2996	698.8017	400.0000	0.3000	155.3505	1.2362	2.6122	3.7382	Open
DMM_PIP_3095A	DMAV32	DMM_JUN_2994	18.5296	400.0000	0.3000	-11.8430	0.0942	0.0005	0.0279	Open
DMM_PIP_3675	DMM_JUN_3372	DMM_JUN_2852	462.3809	400.0000	0.3000	155.8550	1.2403	1.7395	3.7620	Open
DMM_PIP_3089	DMM_JUN_3372	DMAV30	55.0482	400.0000	0.3000	88.4548	0.7039	0.0685	1.2450	Open
	DMAV30	DMM JUN 3374	241.1596	400.0000	0.3000	88.4548	0.7039	0.3003	1.2450	Open
DMM_PIP_3089A	Dividev 30									
	DMM_JUN_2626	DMM_JUN_3372	37.2392	400.0000	0.3000	246.0741	1.9582	0.3441	9.2401	Open
DMM_PIP_3089A DMM_PIP_2137 DMM_PIP_3113			37.2392 22.7195	400.0000 400.0000	0.3000	246.0741 54.0336	1.9582 0.4300	0.3441 0.0109	9.2401 0.4805	
DMM_PIP_2137	DMM_JUN_2626	DMM_JUN_3372								Open Open
DMM_PIP_2137 DMM_PIP_3113	DMM_JUN_2626	DMM_JUN_3372 DMAV42	22.7195	400.0000	0.3000	54.0336	0.4300	0.0109	0.4805	
DMM_PIP_2137	DMM_JUN_2626	DMM_JUN_3372	22.7195 Length	400.0000 Diameter		54.0336 Flow	0.4300 Velocity	0.0109 Headloss	0.4805 HL/1000	
DMM_PIP_2137 DMM_PIP_3113	DMM_JUN_2626 DMM_JUN_2638 From Node	DMM_JUN_3372 DMAV42 To Node	22.7195 Length (m)	400.0000 Diameter (mm)	0.3000 Roughness (mm)	54.0336 Flow (L/s)	0.4300 Velocity (m/s)	0.0109 Headloss (m)	0.4805 HL/1000 (m/k-m)	Open Status
DMM_PIP_2137 DMM_PIP_3113 ID DMM_PIP_2109	DMM_JUN_2626 DMM_JUN_2638 From Node DMM_JUN_2638	DMM_JUN_3372 DMAV42 To Node DMM_JUN_2690	22.7195 Length (m) 593.2417	400.0000 Diameter (mm) 1,000.0000	0.3000 Roughness (mm) 0.3000	54.0336 Flow (L/s) 774.5679	0.4300 Velocity (m/s) 0.9862	0.0109 Headloss (m) 0.4639	0.4805 HL/1000 (m/k-m) 0.7819	Open Status Open
DMM_PIP_2137 DMM_PIP_3113 ID DMM_PIP_2109 DMM_PIP_2097	DMM_JUN_2626 DMM_JUN_2638 From Node DMM_JUN_2638 DMM_JUN_2626	DMM_JUN_3372 DMAV42 To Node DMM_JUN_2690 DMM_JUN_2638	22.7195 Length (m) 593.2417 429.6359	400.0000 Diameter (mm) 1,000.0000 1,000.0000	0.3000 Roughness (mm) 0.3000 0.3000	54.0336 Flow (L/s) 774.5679 829.6906	0.4300 Velocity (m/s) 0.9862 1.0564	0.0109 Headloss (m) 0.4639 0.3843	0.4805 HL/1000 (m/k-m) 0.7819 0.8945	Open Status Open Open
DMM_PIP_2137 DMM_PIP_3113 ID DMM_PIP_2109 DMM_PIP_2097 DMM_PIP_3113A	DMM_JUN_2626 DMM_JUN_2638 From Node DMM_JUN_2638 DMM_JUN_2626 DMAV42	DMM_JUN_3372 DMAV42 To Node DMM_JUN_2690 DMM_JUN_2638 DMM_JUN_3008	22.7195 Length (m) 593.2417 429.6359 70.4685	400.0000 Diameter (mm) 1,000.0000 1,000.0000 400.0000	0.3000 Roughness (mm) 0.3000 0.3000 0.3000	54.0336 Flow (L/s) 774.5679 829.6906 54.0336	0.4300 Velocity (m/s) 0.9862 1.0564 0.4300	0.0109 Headloss (m) 0.4639 0.3843 0.0339	0.4805 HL/1000 (m/k-m) 0.7819 0.8945 0.4806	Open Status Open Open Open
DMM_PIP_2137 DMM_PIP_3113 ID DMM_PIP_2109 DMM_PIP_2097 DMM_PIP_3113A DMM_PIP_3117	DMM_JUN_2626 DMM_JUN_2638 From Node DMM_JUN_2638 DMM_JUN_2626 DMAV42 DMM_JUN_2690	DMM_JUN_3372 DMAV42 To Node DMM_JUN_2690 DMM_JUN_2638 DMM_JUN_3008 DMAV37	22.7195 Length (m) 593.2417 429.6359 70.4685 125.8354	400.0000 Diameter (mm) 1,000.0000 1,000.0000 400.0000 400.0000	0.3000 Roughness (mm) 0.3000 0.3000 0.3000 0.3000	54.0336 Flow (L/s) 774.5679 829.6906 54.0336 41.7338	0.4300 Velocity (m/s) 0.9862 1.0564 0.4300 0.3321	0.0109 Headloss (m) 0.4639 0.3843 0.0339 0.0369	0.4805 HL/1000 (m/k-m) 0.7819 0.8945 0.4806 0.2932	Open Status Open Open Open Open
DMM_PIP_2137 DMM_PIP_3113 ID DMM_PIP_2109 DMM_PIP_2097 DMM_PIP_3113A DMM_PIP_3117 DMM_PIP_2277	DMM_JUN_2626 DMM_JUN_2638 From Node DMM_JUN_2638 DMM_JUN_2626 DMAV42 DMM_JUN_2690 DMM_JUN_2690	DMM_JUN_3372 DMAV42 To Node DMM_JUN_2690 DMM_JUN_2638 DMM_JUN_3008 DMAV37 DMM_JUN_3012	22.7195 Length (m) 593.2417 429.6359 70.4685 125.8354 326.2218	400.0000 Diameter (mm) 1,000.0000 1,000.0000 400.0000 1,000.0000	0.3000 Roughness (mm) 0.3000 0.3000 0.3000 0.3000 0.3000	54.0336 Flow (L/s) 774.5679 829.6906 54.0336 41.7338 731.3064	0.4300 Velocity (m/s) 0.9862 1.0564 0.4300 0.3321 0.9311	0.0109 Headloss (m) 0.4639 0.3843 0.0339 0.0369 0.2280	0.4805 HL/1000 (m/k-m) 0.7819 0.8945 0.4806 0.2932 0.6989	Open Status Open Open Open Open
DMM_PIP_2137 DMM_PIP_3113 ID DMM_PIP_2109 DMM_PIP_2097 DMM_PIP_3113A DMM_PIP_3117 DMM_PIP_2277 DMM_PIP_2117A	DMM_JUN_2626           DMM_JUN_2638           From Node           DMM_JUN_2638           DMM_JUN_26636           DMM_JUN_26600           DMAV42           DMM_JUN_26690           DMM_JUN_26690           DMAV37	DMM_JUN_3372 DMAV42 To Node DMM_JUN_2690 DMM_JUN_2638 DMM_JUN_3008 DMAV37 DMM_JUN_3012 DMM_JUN_3010	22.7195 Length (m) 593.2417 429.6359 70.4685 125.8354 326.2218 430.3304	400.0000 Diameter (mm) 1,000.0000 1,000.0000 400.0000 1,000.0000 400.0000	0.3000 Roughness (mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	54.0336 Flow (L/s) 774.5679 829.6906 54.0336 41.7338 731.3064 41.7338	0.4300 Velocity (m/s) 0.9862 1.0564 0.4300 0.3321 0.9311 0.3321	0.0109 Headloss (m) 0.4639 0.3843 0.0339 0.0369 0.2280 0.1262	0.4805 HL/1000 (m/k-m) 0.7819 0.8945 0.4806 0.2932 0.6989 0.2932	Open Status Open Open Open Open Open
DMM_PIP_2137 DMM_PIP_3113 DMM_PIP_2109 DMM_PIP_2097 DMM_PIP_2097 DMM_PIP_3113A DMM_PIP_3117 DMM_PIP_2277 DMM_PIP_3117A DMM_PIP_3123	DMM_JUN_2626           DMM_JUN_2638           From Node           DMM_JUN_2638           DMM_JUN_2626           DMAV42           DMM_JUN_2690           DMM_JUN_2690           DMAV37           DMM_JUN_3012	DMM_JUN_3372 DMAV42 To Node DMM_JUN_2690 DMM_JUN_2638 DMM_JUN_3008 DMAV37 DMM_JUN_3012 DMM_JUN_3010 DMAV43	22.7195 Length (m) 593.2417 429.6359 70.4685 125.8354 326.2218 430.3304 25.0933	400.0000 Diameter (mm) 1,000.0000 1,000.0000 400.0000 1,000.0000 400.0000 400.0000	0.3000 Roughness (mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	54.0336 Flow (L/s) 774.5679 829.6906 54.0336 41.7338 731.3064 41.7338 0.0000	0.4300 Velocity (m/s) 0.9862 1.0564 0.4300 0.3321 0.9311 0.3321 0.0000	0.0109 Headloss (m) 0.4639 0.3843 0.0339 0.0369 0.2280 0.1262 0.0000	0.4805 HL/1000 (m/k-m) 0.7819 0.8945 0.4806 0.2932 0.6989 0.2932 0.0000	Open Status Open Open Open Open Open Open
DMM_PIP_2137 DMM_PIP_3113 DMM_PIP_2109 DMM_PIP_2097 DMM_PIP_3113A DMM_PIP_3117 DMM_PIP_3117 DMM_PIP_3117A DMM_PIP_31123 DMM_PIP_3119	DMM_JUN_2626 DMM_JUN_2638 DMM_JUN_2638 DMM_JUN_2638 DMA_JUN_2626 DMAV42 DMM_JUN_2690 DMM_JUN_2690 DMAV37 DMM_JUN_3012 DMM_JUN_3012	DMM_JUN_3372           DMAV42           To Node           DMM_JUN_2690           DMM_JUN_2638           DMM_JUN_3008           DMAV37           DMM_JUN_3012           DMM_JUN_3010           DMAV43           DMM_JUN_2636	22.7195 Length (m) 593.2417 429.6359 70.4685 125.8354 326.2218 430.3304 25.0933 658.4426	400.0000 Diameter (mm) 1,000.0000 400.0000 400.0000 400.0000 400.0000 400.0000 1,000.0000	0.3000 Roughness (mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	54.0336 Flow (L/s) 774.5679 829.6906 54.0336 41.7338 731.3064 41.7338 0.0000 730.3959	0.4300 Velocity (m/s) 0.9862 1.0564 0.4300 0.3321 0.9311 0.3321 0.0000 0.9300	0.0109 Headloss (m) 0.4639 0.3843 0.0339 0.0369 0.2280 0.1262 0.0000 0.4590	0.4805 HL/1000 (m/k-m) 0.7819 0.8945 0.4806 0.2932 0.6989 0.2932 0.0000 0.6972	Open Status Open Open Open Open Open Open Open
DMM_PIP_2137 DMM_PIP_3113 ID DMM_PIP_2109 DMM_PIP_2097 DMM_PIP_3113A DMM_PIP_3117 DMM_PIP_3117 DMM_PIP_3117A DMM_PIP_31123 DMM_PIP_3119 DMM_PIP_3127	DMM_JUN_2626           DMM_JUN_2638           From Node           DMM_JUN_2638           DMM_JUN_2668           DMM_JUN_26690           DMM_JUN_2690           DMM_JUN_3012           DMM_JUN_3012           DMM_JUN_3012           DMM_JUN_2636	DMM_JUN_3372 DMAV42 To Node DMM_JUN_2690 DMM_JUN_2638 DMM_JUN_3008 DMAV37 DMM_JUN_3010 DMAV43 DMM_JUN_2636 DMAV38	22.7195 Length (m) 593.2417 429.6359 70.4685 125.8354 326.2218 430.3304 25.0933 658.4426 69.2475	400.0000 Diameter (mm) 1,000.0000 400.0000 400.0000 400.0000 400.0000 1,000.0000 400.0000	0.3000 Roughness (mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	54.0336 Flow (L/s) 774.5679 829.6906 54.0336 41.7338 731.3064 41.7338 0.0000 730.3959 56.2169	0.4300 Velocity (m/s) 0.9862 1.0564 0.4300 0.3321 0.9311 0.3321 0.0000 0.9300 0.4474	0.0109 Headloss (m) 0.4639 0.3843 0.0339 0.0369 0.2280 0.1262 0.0000 0.4590 0.0359	0.4805 HL/1000 (m/k-m) 0.7819 0.8945 0.4806 0.2932 0.6989 0.2932 0.0000 0.6972 0.5186	Open Status Open Open Open Open Open Open Open Open
DMM_PIP_2137 DMM_PIP_3113 ID DMM_PIP_2109 DMM_PIP_2097 DMM_PIP_3113A DMM_PIP_3117 DMM_PIP_3117 DMM_PIP_3117A DMM_PIP_3123 DMM_PIP_3129 DMM_PIP_3127 DMM_PIP_3127 DMM_PIP_3127	DMM_JUN_2626 DMM_JUN_2638 From Node DMM_JUN_2638 DMM_JUN_2626 DMAV42 DMM_JUN_2690 DMAV37 DMM_JUN_2690 DMAV37 DMM_JUN_3012 DMM_JUN_3012 DMM_JUN_3012	DMM_JUN_3372           DMAV42           To Node           DMM_JUN_2690           DMM_JUN_2638           DMM_JUN_3008           DMAV37           DMM_JUN_3012           DMM_JUN_3010           DMAV43           DMM_JUN_2636           DMAV38           DMM_JUN_3024	22.7195 Length (m) 593.2417 429.6359 70.4685 125.8354 326.2218 430.3304 25.0933 658.4426 69.2475 249.0059	400.0000 Diameter (mm) 1,000.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 1,000.0000	0.3000 Roughness (mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	54.0336 Flow (L/s) 774.5679 829.6906 54.0336 41.7338 731.3064 41.7338 0.0000 730.3959 56.2169 673.2016	0.4300 Velocity (m/s) 0.9862 1.0564 0.4300 0.3321 0.9311 0.3321 0.0000 0.9300 0.0000 0.9300 0.4474 0.8571	0.0109 Headloss (m) 0.4639 0.3843 0.0339 0.2280 0.1262 0.0000 0.4590 0.0359 0.1480	0.4805 HL/1000 (m/k-m) 0.7819 0.8945 0.4806 0.2932 0.6989 0.2932 0.2932 0.0000 0.6972 0.5186 0.5946	Open Status Open Open Open Open Open Open Open Open
DMM_PIP_2137 DMM_PIP_3113 ID DMM_PIP_2109 DMM_PIP_2097 DMM_PIP_3117A DMM_PIP_3117 DMM_PIP_3117A DMM_PIP_3123 DMM_PIP_3123 DMM_PIP_3127 DMM_PIP_2107 DMM_PIP_2107	DMM_JUN_2626 DMM_JUN_2638 DMM_JUN_2638 DMM_JUN_2638 DMM_JUN_2626 DMAV42 DMM_JUN_2690 DMM_JUN_2690 DMAV37 DMM_JUN_2690 DMM_JUN_2036 DMM_JUN_2636 DMM_JUN_2636 DMM_JUN_2636	DMM_JUN_3372 DMAV42 To Node DMM_JUN_2690 DMM_JUN_2638 DMM_JUN_3008 DMAV37 DMM_JUN_3012 DMM_JUN_3010 DMAV43 DMM_JUN_2636 DMAV38 DMM_JUN_3024 DMM_JUN_3016	22.7195 Length (m) 593.2417 429.6359 125.8354 326.2218 430.3304 25.0933 658.4426 69.2475 249.0059 103.8293	400.0000 Diameter (mm) 1,000.0000 400.0000 400.0000 400.0000 400.0000 400.0000 1,000.0000 1,000.0000 400.0000	0.3000 Roughness (mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	54.0336 Flow (L/s) 774.5679 829.6906 54.0336 41.7338 731.3064 41.7338 0.0000 730.3959 56.2169 673.2016 56.2169	0.4300 Velocity (m/s) 0.9862 1.0564 0.4300 0.3321 0.03321 0.03321 0.0000 0.9300 0.4474 0.8571 0.4474	0.0109 Headloss (m) 0.4639 0.3843 0.0339 0.0369 0.2280 0.1262 0.0000 0.4590 0.0359 0.1480 0.0538	0.4805 HL/1000 (m/k-m) 0.8945 0.4806 0.2932 0.6989 0.2932 0.0000 0.6972 0.5186 0.5186	Open Status Open Open Open Open Open Open Open Open
DMM_PIP_2137 DMM_PIP_3113 ID DMM_PIP_2109 DMM_PIP_2097 DMM_PIP_3117A DMM_PIP_3117 DMM_PIP_3117A DMM_PIP_3123 DMM_PIP_3123 DMM_PIP_3127 DMM_PIP_2107 DMM_PIP_2107 DMM_PIP_2107 DMM_PIP_2127A	DMM_JUN_2626 DMM_JUN_2638 DMM_JUN_2638 DMM_JUN_2638 DMM_JUN_2626 DMAV42 DMM_JUN_2690 DMAV37 DMM_JUN_2690 DMAV37 DMM_JUN_2636 DMM_JUN_2636 DMM_JUN_2636 DMM_JUN_2638 DMAV38 DMAV43	DMM_JUN_3372 DMAV42 To Node DMM_JUN_2690 DMM_JUN_2638 DMM_JUN_3008 DMAV37 DMM_JUN_3010 DMAV43 DMM_JUN_3010 DMAV43 DMM_JUN_2636 DMA_JUN_2636 DMA_JUN_3024 DMM_JUN_3014	22.7195 Length (m) 593.2417 429.6359 125.8354 326.2218 430.3304 25.0933 658.4426 69.2475 249.0059 103.8293 70.4380	400.0000 Diameter (mm) 1,000.0000 400.0000 400.0000 400.0000 400.0000 1,000.0000 1,000.0000 400.0000 400.0000 400.0000	0.3000 Roughness (mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	54.0336 Flow (L/s) 774.5679 829.6906 54.0336 41.7338 731.3064 41.7338 0.0000 730.3959 56.2169 673.2016 56.2169 0.0000	0.4300 Velocity (m/s) 0.9862 1.0564 0.4300 0.3321 0.9311 0.3321 0.0000 0.9300 0.4474 0.8571 0.4474	0.0109 Headloss (m) 0.4639 0.3843 0.0339 0.2280 0.1262 0.0000 0.4590 0.1480 0.0538 0.0000	0.4805 HL/1000 (m/k-m) 0.7819 0.8945 0.4806 0.2932 0.6989 0.2932 0.0000 0.6972 0.5186 0.5546 0.5546 0.5546	Open Status Open Open Open Open Open Open Open Open
DMM_PIP_2137 DMM_PIP_3113 DMM_PIP_2109 DMM_PIP_2097 DMM_PIP_2097 DMM_PIP_3117A DMM_PIP_3117A DMM_PIP_3117A DMM_PIP_3123 DMM_PIP_3127 DMM_PIP_3127 DMM_PIP_3127A DMM_PIP_3127A DMM_PIP_3123A DMM_PIP_3139	DMM_JUN_2626 DMM_JUN_2638 DMM_JUN_2638 DMM_JUN_2638 DMM_JUN_2626 DMAV42 DMM_JUN_2690 DMAV37 DMM_JUN_2690 DMAV37 DMM_JUN_3012 DMM_JUN_3012 DMM_JUN_2636 DMM_JUN_2636 DMM_JUN_2636 DMAV38 DMAV43 DMAV43	DMM_JUN_3372 DMAV42 To Node DMM_JUN_2690 DMM_JUN_2638 DMM_JUN_3008 DMAV37 DMM_JUN_3012 DMM_JUN_3010 DMAV43 DMM_JUN_2636 DMAV38 DMM_JUN_3024 DMM_JUN_3016	22.7195 Length (m) 593.2417 429.6359 125.8354 326.2218 430.3304 25.0933 658.4426 69.2475 249.0059 103.8293	400.0000 Diameter (mm) 1,000.0000 1,000.0000 400.0000 400.0000 400.0000 1,000.0000 400.0000 400.0000 400.0000 400.0000	0.3000 Roughness (mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	54.0336 Flow (L/s) 774.5679 829.6906 54.0336 41.7338 731.3064 41.7338 0.0000 730.3959 56.2169 673.2016 56.2169	0.4300 Velocity (m/s) 0.9862 1.0564 0.4300 0.3321 0.03321 0.03321 0.0000 0.9300 0.4474 0.8571 0.4474	0.0109 Headloss (m) 0.4639 0.3843 0.0339 0.0369 0.2280 0.1262 0.0000 0.4590 0.0359 0.1480 0.0538	0.4805 HL/1000 (m/k-m) 0.8945 0.4806 0.2932 0.6989 0.2932 0.0000 0.6972 0.5186 0.5186	Open Status Open Open Open Open Open Open Open Open
DMM_PIP_2137 DMM_PIP_3113 ID DMM_PIP_2109 DMM_PIP_2097 DMM_PIP_3117A DMM_PIP_3117 DMM_PIP_3117A DMM_PIP_3123 DMM_PIP_3123 DMM_PIP_3127 DMM_PIP_2107 DMM_PIP_2107 DMM_PIP_2107 DMM_PIP_2127A	DMM_JUN_2626 DMM_JUN_2638 DMM_JUN_2638 DMM_JUN_2638 DMM_JUN_2626 DMAV42 DMM_JUN_2690 DMAV37 DMM_JUN_2690 DMAV37 DMM_JUN_2636 DMM_JUN_2636 DMM_JUN_2636 DMM_JUN_2638 DMAV38 DMAV43	DMM_JUN_3372           DMAV42           To Node           DMM_JUN_2690           DMM_JUN_2638           DMM_JUN_3008           DMAV37           DMM_JUN_3010           DMM_JUN_3010           DMAV43           DMM_JUN_2636           DMAV38           DMM_JUN_30124           DMM_JUN_3016           DMM_JUN_3014           DMM_JUN_3014           DMAV44	22.7195 Length (m) 593.2417 429.6359 125.8354 326.2218 430.3304 25.0933 658.4426 69.2475 249.0059 103.8293 70.4380	400.0000 Diameter (mm) 1,000.0000 400.0000 400.0000 400.0000 400.0000 1,000.0000 1,000.0000 400.0000 400.0000 400.0000	0.3000 Roughness (mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	54.0336 Flow (L/s) 774.5679 829.6906 54.0336 41.7338 731.3064 41.7338 0.0000 730.3959 56.2169 673.2016 56.2169 0.0000	0.4300 Velocity (m/s) 0.9862 1.0564 0.4300 0.3321 0.9311 0.3321 0.0000 0.9300 0.4474 0.8571 0.4474	0.0109 Headloss (m) 0.4639 0.3843 0.0339 0.2280 0.1262 0.0000 0.4590 0.1480 0.0538 0.0000	0.4805 HL/1000 (m/k-m) 0.7819 0.8945 0.4806 0.2932 0.6989 0.2932 0.0000 0.6972 0.5186 0.5546 0.5546 0.5546	Open Status Open Open Open Open Open Open Open Open
DMM_PIP_2137 DMM_PIP_3113 DMM_PIP_2109 DMM_PIP_2097 DMM_PIP_2097 DMM_PIP_3117A DMM_PIP_3117A DMM_PIP_3117A DMM_PIP_3123 DMM_PIP_3127 DMM_PIP_3127 DMM_PIP_3127A DMM_PIP_3127A DMM_PIP_3123A DMM_PIP_3139	DMM_JUN_2626 DMM_JUN_2638 DMM_JUN_2638 DMM_JUN_2638 DMM_JUN_2626 DMAV42 DMM_JUN_2690 DMAV37 DMM_JUN_2690 DMAV37 DMM_JUN_3012 DMM_JUN_3012 DMM_JUN_2636 DMM_JUN_2636 DMM_JUN_2636 DMAV38 DMAV43 DMAV43	DMM_JUN_3372 DMAV42 To Node DMM_JUN_2690 DMM_JUN_2638 DMM_JUN_3008 DMAV37 DMM_JUN_3012 DMM_JUN_3010 DMAV43 DMM_JUN_2636 DMA_V38 DMM_JUN_3024 DMM_JUN_3016 DMM_JUN_3014 DMM_JUN_3014	22.7195 Length (m) 593.2417 429.6359 70.4685 125.8354 326.2218 430.3304 25.0933 658.4426 69.2475 249.0059 249.0059 103.8293 70.4380 31.2033	400.0000 Diameter (mm) 1,000.0000 1,000.0000 400.0000 400.0000 400.0000 1,000.0000 400.0000 400.0000 400.0000 400.0000	0.3000 Roughness (mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	54.0336 Flow (L/s) 774.5679 829.6906 54.0336 41.7338 731.3064 41.7338 0.0000 730.3959 56.2169 673.2016 56.2169 0.0000 101.1415	0.4300 Velocity (m/s) 0.9862 1.0564 0.4300 0.3321 0.0321 0.03321 0.0000 0.3321 0.0000 0.4474 0.4474 0.4474	0.0109 Headloss (m) 0.4639 0.3843 0.0339 0.2280 0.1262 0.0000 0.4590 0.1480 0.0359 0.1480 0.0538 0.0000 0.0504	0.4805 HL/1000 (m/k-m) 0.7819 0.8945 0.4806 0.2932 0.6989 0.2932 0.0000 0.6972 0.5186 0.5946 0.5186 0.5186 0.5186	Open Status Open Open Open Open Open Open Open Open
DMM_PIP_2137 DMM_PIP_3113 DMM_PIP_2109 DMM_PIP_2097 DMM_PIP_2097 DMM_PIP_3117A DMM_PIP_3117A DMM_PIP_3117A DMM_PIP_3123 DMM_PIP_3127 DMM_PIP_3127 DMM_PIP_3127A DMM_PIP_3127A DMM_PIP_3123A DMM_PIP_3139A	DMM_JUN_2626 DMM_JUN_2638 DMM_JUN_2638 DMM_JUN_2638 DMM_JUN_2660 DMAV42 DMM_JUN_2690 DMAV37 DMM_JUN_2690 DMAV37 DMM_JUN_2636 DMM_JUN_2636 DMM_JUN_2636 DMM_JUN_2636 DMAV38 DMAV43 DMAV44	DMM_JUN_3372           DMAV42           To Node           DMM_JUN_2690           DMM_JUN_2638           DMM_JUN_3008           DMAV37           DMM_JUN_3010           DMM_JUN_3010           DMAV43           DMM_JUN_2636           DMAV38           DMM_JUN_30124           DMM_JUN_3016           DMM_JUN_3014           DMM_JUN_3014           DMAV44	22.7195 Length (m) 593.2417 429.6359 70.4865 125.8354 326.2218 430.3304 25.0933 658.4426 69.2475 249.0059 103.8293 70.4380 31.2033 71.4614	400.0000 Diameter (mm) 1,000.0000 400.0000 400.0000 400.0000 400.0000 1,000.0000 1,000.0000 400.0000 400.0000 400.0000 400.0000	0.3000 Roughness (mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	54.0336 Flow (L/s) 774.5679 829.6906 54.0336 41.7338 731.3064 41.7338 0.0000 730.3959 56.2169 673.2016 56.2169 0.0000 101.1415 101.1415	0.4300 Velocity (m/s) 0.9862 1.0564 0.4300 0.3321 0.0321 0.0321 0.3321 0.0000 0.4374 0.8571 0.4474 0.4474 0.4474 0.449 0.8049	0.0109 Headloss (m) 0.4639 0.3843 0.0339 0.0369 0.2280 0.1262 0.0000 0.4590 0.0359 0.1480 0.0538 0.00538 0.0000 0.0504 0.1155	0.4805 HL/1000 (m/k-m) 0.7819 0.8945 0.4806 0.2932 0.6989 0.2932 0.0000 0.6972 0.5186 0.5186 0.5186 0.5186 0.5186 0.5000 1.6157 1.6157	Open Status Open Open Open Open Open Open Open Open
DMM_PIP_2137 DMM_PIP_2137 DMM_PIP_2109 DMM_PIP_2097 DMM_PIP_2097 DMM_PIP_3113A DMM_PIP_3117 DMM_PIP_3117 DMM_PIP_3127 DMM_PIP_3127 DMM_PIP_3127A DMM_PIP_3127A DMM_PIP_3123A DMM_PIP_3139A DMM_PIP_3139A DMM_PIP_3135	DMM_JUN_2626 DMM_JUN_2638 From Node DMM_JUN_2638 DMM_JUN_2666 DMAV42 DMM_JUN_2690 DMAV47 DMM_JUN_3012 DMM_JUN_3012 DMM_JUN_3012 DMM_JUN_2636 DMM_JUN_2636 DMAV38 DMAV38 DMAV43 DMM_JUN_3024	DMM_JUN_3372           DMAV42           To Node           DMM_JUN_2690           DMM_JUN_2638           DMM_JUN_3008           DMAV37           DMM_JUN_3012           DMM_JUN_3010           DMAV43           DMM_JUN_3024           DMM_JUN_3016           DMM_JUN_3016           DMM_JUN_3014           DMAV44           DMM_JUN_3026           DMM_JUN_3026           DMM_JUN_2692	22.7195 Length (m) 593.2417 429.6359 70.4685 125.8354 326.2218 430.3304 25.0933 658.4426 69.2475 249.0059 103.8293 70.4380 31.2033 71.4614 412.3026	400.0000 Diameter (mm) 1,000.0000 400.0000 400.0000 400.0000 400.0000 1,000.0000 1,000.0000 400.0000 400.0000 400.0000 400.0000 400.0000 1,000.0000 1,000.0000 1,000.0000	0.3000 Roughness (mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	54.0336 Flow (L/s) 774.5679 829.6906 54.0336 41.7338 731.3064 41.7338 0.0000 730.3959 56.2169 673.2016 56.2169 673.2016 56.2169 0.0000 101.1415 501.0248	0.4300 Velocity (m/s) 0.9862 1.0564 0.4300 0.3321 0.0321 0.0321 0.0000 0.9300 0.4474 0.8571 0.4474 0.0000 0.8049 0.8049 0.7271	0.0109 Headloss (m) 0.4639 0.3843 0.0339 0.0369 0.2280 0.1262 0.0000 0.4590 0.0359 0.1480 0.0538 0.0000 0.0504 0.1155 0.1779	0.4805 HL/1000 (m/k-m) 0.7819 0.4806 0.2932 0.6989 0.2932 0.0000 0.6972 0.5186 0.5186 0.5186 0.0000 1.6157 1.6157 0.4314	Open Open Open Open Open Open Open Open
DMM_PIP_2137 DMM_PIP_2137 DMM_PIP_2109 DMM_PIP_2097 DMM_PIP_2097 DMM_PIP_3113A DMM_PIP_3117 DMM_PIP_3117 DMM_PIP_3127 DMM_PIP_3127 DMM_PIP_3127 DMM_PIP_3127A DMM_PIP_3123A DMM_PIP_3139 DMM_PIP_3139 DMM_PIP_3135 DMM_PIP_3135 DMM_PIP_3135	DMM_JUN_2626 DMM_JUN_2638 From Node DMM_JUN_2638 DMM_JUN_2666 DMAV42 DMM_JUN_2690 DMAV37 DMM_JUN_3012 DMM_JUN_3012 DMM_JUN_3012 DMM_JUN_3012 DMM_JUN_2636 DMAV43 DMAV43 DMAV44 DMAV44 DMA_JUN_3024	DMM_JUN_3372           DMAV42           To Node           DMM_JUN_2690           DMM_JUN_2638           DMM_JUN_3008           DMAV37           DMM_JUN_3012           DMM_JUN_3010           DMAV43           DMM_JUN_2636           DMM_JUN_3010           DMAV43           DMM_JUN_3010           DMM_JUN_3010           DMM_JUN_3010           DMM_JUN_3016           DMM_JUN_3016           DMM_JUN_3014           DMAV44           DMM_JUN_2692           DMAV45	22.7195 Length (m) 593.2417 429.6359 125.8354 326.2218 430.3304 25.0933 658.4426 658.4426 658.4426 658.4426 103.8293 70.4380 31.2033 71.4614 412.3026 52.7775	400.0000 Diameter (mm) 1,000.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000	0.3000 Roughness (mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	54.0336 Flow (L/s) 774.5679 829.6906 54.0336 41.7338 731.3064 41.7338 731.3064 41.7338 0.0000 730.3959 56.2169 673.2016 56.2169 0.0000 101.1415 101.1415 571.0248 130.3314	0.4300 Velocity (m/s) 0.9862 1.0564 0.4300 0.3321 0.9311 0.3321 0.0000 0.9300 0.9300 0.9300 0.4474 0.8571 0.4474 0.8571 0.4474 0.8049 0.8049 0.8049 0.8049	0.0109 Headloss (m) 0.4639 0.3843 0.0339 0.2280 0.1262 0.0000 0.4590 0.0359 0.1480 0.0538 0.0000 0.0504 0.0504 0.1155 0.1779 0.1399	0.4805 HL/1000 (m/k-m) 0.7819 0.8945 0.4806 0.2932 0.6989 0.2932 0.0000 0.6972 0.5186 0.5186 0.5186 0.5186 0.5186 0.5186 1.6157 1.6157	Open Open Open Open Open Open Open Open
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DMM_JUN_3026           DMM_JUN_3026           DMM_JUN_2692           DMAV45           DMM_JUN_3028           DMM_JUN_3020           DMM_JUN_3022	22.7195 Length (m) 593.2417 429.6359 70.4685 125.8354 326.2218 430.3304 25.0933 658.4426 69.2475 249.0059 103.8293 70.4380 31.2033 71.4614 412.3026 52.7775 972.3816 179.8362 1,541.3807 79.8294	400.0000 Diameter (mm) 1,000.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 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DMM_JUN_3012           DMM_JUN_3012           DMM_JUN_3012           DMM_JUN_3012           DMM_JUN_3012           DMM_JUN_3012           DMM_JUN_3016           DMM_JUN_3016           DMM_JUN_3016           DMM_JUN_3016           DMM_JUN_3026           DMM_JUN_3020           DMM_JUN_3020           DMM_JUN_3020           DMM_JUN_3020           DMM_JUN_3020           DMM_JUN_3028           DMM_JUN_3020           DMM_JUN_3020           DMM_JUN_3028           DMM_JUN_3020           DMM_JUN_3020           DMM_JUN_3018           DMM_JUN_3030           DMM_V46           DMM_JUN_3030           DMAV39           DMM_JUN_3038	22.7195 Length (m) 593.2417 429.6359 70.4685 125.8354 326.2218 430.3304 25.0933 70.4306 69.2475 249.0059 103.8293 70.4614 412.3026 52.7775 972.3816 179.8362 179.8362 179.83294 109.8553 73.1603 25.3978 55.3791 81.4981 48.3822 838.2071	400.0000 Diameter (mm) 1,000.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 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130.3314           438.5979           130.3314           438.4886           0.0000           70.5848           0.0000           437.8746           0.0000           67.5614           369.6514	0.4300 Velocity (m's) 0.9862 0.4300 0.3321 0.9311 0.3321 0.0000 0.4474 0.8571 0.4474 0.8571 0.4474 0.8571 0.4474 0.8000 0.8049 0.7271 1.0371 0.5584 1.0371 0.5584 0.0000 0.5657 0.0000 0.5575 0.0000 0.5376 0.4707	0.0109 Headloss (m) 0.4639 0.3843 0.0339 0.2280 0.1262 0.0000 0.4590 0.4590 0.0359 0.1480 0.0538 0.0000 0.0504 0.1155 0.1779 0.1399 0.2514 0.4766 1.2534 0.0447 0.0000 0.0588 0.0000 0.0143 0.0000 0.0143 0.0000 0.0358 0.1558	0.4805 HL/1000 (m/k-m) 0.7819 0.8945 0.4806 0.2932 0.6989 0.2932 0.0000 0.6972 0.5186 0.0000 1.6157 1.6157 1.6157 1.6157 0.4314 2.6502 0.2586 0.0000 0.8131 0.5596 0.0000 0.8041 0.0000 0.2577 0.0000 0.2577 0.0000 0.2577 0.0000 0.2577 0.0000 0.2577 0.0000 0.2577 0.0000 0.2577 0.0000 0.2577 0.0000 0.2577 0.0000 0.2577 0.0000 0.2577 0.0000 0.2577 0.0000 0.2577 0.0000 0.2577 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  DMAV37           DMM_JUN_3012           DMM_JUN_3012           DMM_JUN_3010           DMAV33           DMM_JUN_3016           DMM_JUN_3016           DMM_JUN_3016           DMM_JUN_3016           DMM_JUN_3026           DMM_JUN_3026           DMM_JUN_3028           DMM_JUN_3028           DMM_JUN_3020           DMM_JUN_3028           DMM_JUN_3020           DMM_JUN_3028           DMM_JUN_3020           DMM_JUN_3020           DMM_JUN_3028           DMM_JUN_3028           DMM_JUN_3028           DMM_JUN_3030           DMM_JUN_3030           DMAV46           DMM_JUN_3038           DMM_JUN_3038	22.7195 Length (m) 593.2417 429.6354 326.2218 430.3304 25.0933 658.4426 69.2475 249.0059 103.8293 70.4380 31.2033 71.4614 412.3026 52.7775 972.3816 179.8294 109.8553 73.1603 25.3978 55.3791 81.4981 48.3822 838.2071 117.4084	400.0000 Diameter (mm) 1,000.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 1,000.0000 400.0000 400.0000 400.0000 400.0000 400.0000 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       0.0000           437.8746           0.0000           67.5614           369.6514           67.5614	0.4300 Velocity (m's) 0.9862 1.0564 0.4300 0.3321 0.9311 0.3321 0.0000 0.4474 0.8571 0.4474 0.8571 0.4474 0.8571 0.4474 0.8000 0.8049 0.7271 1.0371 0.5584 1.0371 0.5584 0.0000 0.5575 0.0000 0.5376 0.4707 0.5376	0.0109 Headloss (m) 0.4639 0.3843 0.0339 0.2280 0.1262 0.0000 0.4590 0.0359 0.1480 0.0538 0.00504 0.0504 0.0504 0.0504 0.1779 0.1399 0.2514 0.4766 1.2534 0.0477 0.0000 0.0588 0.0000 0.0588 0.0000 0.0143 0.0000 0.0358 0.0000	0.4805 HL/1000 (m/k-m) 0.7819 0.8945 0.4806 0.2932 0.6989 0.2932 0.0000 0.6972 0.5186 0.5186 0.5186 0.5186 0.5186 0.5186 0.5186 0.5186 0.5186 0.5186 0.5186 0.4314 2.6502 0.4314 2.6502 0.4314 0.2586 2.6502 0.8000 0.8041 0.5596 0.0000 0.8041 0.0000 0.8041 0.0000 0.2577 0.0000 0.7389 0.7389	Open Open Open Open Open Open Open Open
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   DMM_JUN_3012           DMM_JUN_3012           DMM_JUN_3016           DMM_JUN_3016           DMM_JUN_3016           DMM_JUN_3016           DMM_JUN_3016           DMM_JUN_3026           DMM_JUN_3026           DMM_JUN_3026           DMM_JUN_3026           DMM_JUN_3026           DMM_JUN_3028           DMM_JUN_3020           DMM_JUN_3020           DMM_JUN_3020           DMM_JUN_3020           DMM_JUN_3020           DMM_JUN_3020           DMM_JUN_3020           DMM_JUN_3020           DMM_JUN_3020           DMM_JUN_3030           DMM_JUN_3030           DMM_JUN_3030           DMM_JUN_2634           DMM_JUN_3038           DMM_JUN_3032           DMM_JUN_3032           DMM_JUN_3032           DMM_JUN_3032	22.7195 Length (m) 593.2417 429.6359 125.8354 326.2218 430.3304 25.0933 658.4426 69.2475 249.0059 103.8293 70.4380 31.2033 71.4614 412.3026 52.7775 972.3816 179.8362 1,541.3807 79.8294 109.8553 73.1603 25.3978 55.3791 81.4981 48.38227 838.2071 117.4084 68.6345	400.0000 Diameter (mm) 1,000.0000 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     0.0000           67.5614           369.6514           67.5614           318.1160	0.4300 Velocity (m/s) 0.9862 1.0564 0.4300 0.3321 0.9311 0.3321 0.0000 0.9300 0.4474 0.8571 0.4474 0.8571 0.4474 0.8571 0.4474 0.8000 0.8049 0.8049 0.8049 0.8049 0.8049 0.8049 0.8049 0.7271 1.0371 0.5584 1.0371 0.5584 1.0371 0.5584 1.0371 0.5575 0.0000 0.5575 0.0000 0.5376 0.4050	0.0109 Headloss (m) 0.4639 0.3843 0.0339 0.2280 0.1262 0.0000 0.4590 0.0359 0.1480 0.0538 0.0000 0.0504 0.1155 0.1779 0.1399 0.2514 0.4766 1.2534 0.0447 0.0000 0.0588 0.0000 0.0588 0.0000 0.0143 0.0000 0.0588 0.0000 0.0588 0.0000 0.0588 0.0000 0.0588 0.0000 0.0588 0.0000 0.0588 0.0000 0.0558 0.0000 0.0558 0.0006 0.0558 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0000 0.0000 0.0558 0.0000 0.0558 0.0006 0.0006 0.0006 0.0000 0.0558 0.0000 0.0000 0.0000 0.0558 0.0000 0.0558 0.0000 0.0000 0.0558 0.0000 0.0558 0.0000 0.0558 0.0000 0.0558 0.0000 0.0558 0.0000 0.0558 0.0000 0.0558 0.0000 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        DMM_JUN_3012           DMM_JUN_3012           DMM_JUN_3012           DMM_JUN_3016           DMM_JUN_3016           DMM_JUN_3016           DMM_JUN_3016           DMM_JUN_3016           DMM_JUN_3026           DMM_JUN_3026           DMM_JUN_3026           DMM_JUN_3026           DMM_JUN_3026           DMM_JUN_3028           DMM_JUN_3020           DMM_JUN_3020           DMM_JUN_3020           DMM_JUN_3020           DMM_JUN_3020           DMM_JUN_3020           DMM_JUN_3020           DMM_JUN_3020           DMM_JUN_3020           DMM_JUN_3030           DMM_JUN_3030           DMM_JUN_3030           DMM_JUN_2634           DMM_JUN_3038           DMM_JUN_3032           DMM_JUN_3032           DMM_JUN_3032           DMM_JUN_3032	22.7195 Length (m) 593.2417 429.6359 125.8354 326.2218 430.3304 25.0933 658.4426 69.2475 249.0059 103.8293 70.4380 31.2033 71.4614 412.3026 52.7775 972.3816 179.8362 1,541.3807 79.8294 109.8553 73.1603 25.3978 55.3791 81.4981 48.38227 838.2071 117.4084 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58.4886           0.0000           70.5848           0.0000           67.5614           369.6514           67.5614           318.1160	0.4300 Velocity (m/s) 0.9862 1.0564 0.4300 0.3321 0.9311 0.3321 0.0000 0.9300 0.4474 0.8571 0.4474 0.8571 0.4474 0.8571 0.4474 0.8000 0.8049 0.8049 0.8049 0.8049 0.8049 0.8049 0.8049 0.7271 1.0371 0.5584 1.0371 0.5584 1.0371 0.5584 1.0371 0.5575 0.0000 0.5575 0.0000 0.5376 0.4050	0.0109 Headloss (m) 0.4639 0.3843 0.0339 0.2280 0.1262 0.0000 0.4590 0.0359 0.1480 0.0538 0.0000 0.0504 0.1155 0.1779 0.1399 0.2514 0.4766 1.2534 0.0447 0.0000 0.0588 0.0000 0.0588 0.0000 0.0143 0.0000 0.0588 0.0000 0.0588 0.0000 0.0588 0.0000 0.0588 0.0000 0.0588 0.0000 0.0588 0.0000 0.0558 0.0000 0.0558 0.0006 0.0558 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0000 0.0000 0.0558 0.0000 0.0558 0.0006 0.0006 0.0006 0.0000 0.0558 0.0000 0.0000 0.0000 0.0558 0.0000 0.0558 0.0000 0.0000 0.0558 0.0000 0.0558 0.0000 0.0558 0.0000 0.0558 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To Node           DMM_JUN_2690           DMM_JUN_2638           DMM_JUN_3008           DMAV37           DMM_JUN_3012           DMM_JUN_3012           DMM_JUN_3012           DMM_JUN_3014           DMM_JUN_3016           DMM_JUN_3016           DMM_JUN_3016           DMM_JUN_3016           DMM_JUN_3028           DMM_JUN_3028           DMM_JUN_2632           DMM_JUN_3028           DMM_JUN_3020           DMM_JUN_3020           DMM_JUN_3020           DMM_JUN_3020           DMM_JUN_3020           DMM_JUN_3020           DMM_JUN_3020           DMM_JUN_3020           DMM_JUN_3020           DMM_JUN_3030           DMM_JUN_3030           DMM_JUN_3030           DMM_JUN_3032           DMM_JUN_3032           DMM_JUN_3032           DMM_JUN_3032           DMM_JUN_3032           DMM_JUN_3032           DMM_JUN_2632	22.7195 Length (m) 593.2417 429.6359 125.8354 326.2218 430.3304 25.0933 658.4426 69.2475 249.0059 103.8293 70.4380 31.2033 71.4614 412.3026 52.7775 972.3816 179.8362 1,541.3807 79.8294 109.8553 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571.0248           130.3314           70.9943           58.4886           0.0000           70.5848           0.0000           67.5614           318.1160           50.9642	0.4300 Velocity (m/s) 0.9862 1.0564 0.4300 0.3321 0.0321 0.0321 0.0000 0.9300 0.4474 0.8571 0.4474 0.8571 0.4474 0.0000 0.8474 0.8571 0.4474 1.0371 1.0371 1.0371 0.5584 1.0371 0.5584 1.0371 0.5550 0.4654 0.0000 0.5575 0.0000 0.5376 0.4707 0.5376 0.4050 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 0.4055 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DMM_JUN_3038	DMM_JUN_3372           DMAV42           To Node           DMM_JUN_2690           DMM_JUN_2638           DMM_JUN_3008           DMM_JUN_3012           DMM_JUN_3012           DMM_JUN_3012           DMM_JUN_3014           DMM_JUN_3016           DMM_JUN_3016           DMM_JUN_3016           DMM_JUN_3016           DMM_JUN_3024           DMM_JUN_3016           DMM_JUN_3026           DMM_JUN_3026           DMM_JUN_3020           DMM_JUN_3030           DMM_JUN_3030           DMM_JUN_3030           DMM_JUN_3032           DMM_JUN_3032           DMM_JUN_3034	22.7195 Length (m) 593.2417 429.6359 125.8354 326.2218 430.3304 25.0933 658.4426 69.2475 249.0059 103.8293 70.4380 31.2033 71.4614 412.3026 52.7775 972.3816 179.8362 1,541.3807 79.8294 109.8553 73.1603 25.3978 55.3791 81.4981 48.3822 838.2071 117.4084 68.6345 50.4294	400.0000 Diameter (mm) 1,000.0000 400.0000 400.0000 400.0000 1,000.0000 400.0000 1,000.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 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  To Node           DMM_JUN_2690           DMM_JUN_2638           DMM_JUN_3008           DMM_JUN_3012           DMM_JUN_3010           DMM_JUN_3012           DMM_JUN_3012           DMM_JUN_3012           DMM_JUN_3012           DMM_JUN_3012           DMM_JUN_3012           DMM_JUN_3012           DMM_JUN_3016           DMM_JUN_3016           DMM_JUN_3016           DMM_JUN_3016           DMM_JUN_3026           DMM_JUN_3028           DMM_JUN_3020           DMM_JUN_3020           DMM_JUN_3028           DMM_JUN_3020           DMM_JUN_3022           DMM_JUN_3028           DMM_JUN_3020           DMM_JUN_3021           DMM_JUN_3030           DMAV46           DMM_JUN_3030           DMAV39           DMM_JUN_2632           DMM_JUN_3034           DMM_JUN_3034           DMM_V40	22.7195 Length (m) 593.2417 429.6354 125.8354 326.2218 430.3304 25.0933 658.4426 69.2475 249.0059 103.8293 70.4380 31.2033 71.4614 412.3026 52.7775 972.3816 179.8362 1,541.3807 79.8294 109.8553 73.1603 25.3978 55.3791 81.4981 48.3822 838.2071 117.4084 68.6345 50.4294 115.9837 12.0192	400.0000 Diameter (mm) 1,000.0000 400.0000 400.0000 400.0000 1,000.0000 400.0000 1,000.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 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0.0086 0.0217 0.0498 0.0158	0.4805 HL/1000 (m/k-m) 0.7819 0.8945 0.4806 0.2932 0.6989 0.2932 0.0000 0.6972 0.5186 0.5186 0.5186 0.5186 0.5596 0.2586 2.6502 0.8131 0.5596 0.2586 2.6502 0.8131 0.5596 0.0000 0.8841 0.5596 0.0000 0.8841 0.5596 0.0000 0.8841 0.5596 0.0000 0.8841 0.5596 0.0000 0.8841 0.5596 0.0000 0.8777 0.0000 0.7389 0.1393 0.4296 0.4296 0.4296 0.4296 1.3110	Open Open Open Open Open Open Open Open





B         Frem Node         To Node         Frem Node         Tom	ID	From Made	To Node	Length	Diameter	Roughness	Flow	Velocity	Headloss	HL/1000	Chathan
DMM, PP, 2181         DMM, LIM, 2544         DMA/41         42.000         400.000         0.500         116.810         0.550         0.557         21.327         Open           DMM, IPP, 2101         DMM, LIM, 2500         OMM, JM, 302         61.523         40.000         0.500         6.5814         0.5914         0.591         0.531         6.517         4.5171         Open           DMM, JPP, 2516         DMM, JJM, 2500         OMM, 21A, 3244         10.4382         40.000         6.5384         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538         6.538	U	From Node	To Node	(m)	(mm)	(mm)	(L/s)	(m/s)	(m)	(m/k-m)	Status
DMM, PP, 2181.         DMM, JM, 2300         94.801         400.000         0.3000         0.5110         0.5980         2202         7.127         Open           PM151         DMM, JM, 2300	DMM_PIP_2183	DMM_JUN_2654	DMM_JUN_3046	257.0146	1,000.0000	0.3000	107.5707	0.1370	0.0046	0.0179	Open
DBMA UP, 2001         DBMA UM, 2003         DBMA UM, 2004         DBMA UM,											
prg1         DMJ_LIN_2830         DMJ_LIN_28300 <thdmj_lin_28300< th="">         DMJ_LIN_28300</thdmj_lin_28300<>											
DMA. (pi: 318)         DMA. (Jul) 304         DMA. (Jul) 302         DMA. (Jul) 304         DMA. (Jul) 302         DMA. (Jul) 3034         DMA. (Jul) 3034         DMA.											
Prigin         DMA/294         DMA/294 <thdma 294<="" th=""> <thdma 294<="" th=""> <thdm< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thdm<></thdma></thdma>											
DMA. PP: 316         DMA. J.M. 304         DMA/46         19.972         40.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000											
DAM, PP: 3161         DMM, LAN, 2360         DMM, LAN, 2720         L18.0007         D.0370         D.0778         C-Pern           DMM, PP: 3169         DMM, LAN, 2720         DMM, LAN, 2721         DMM, LAN, 2731											
DMA. IPP. 3166A.         DMA.Vég         DMA. J.N. 2502         S21954         GO.0000         D.0000         D.0000         C.0000         C.0000 <thc.0000< th="">         C.0000</thc.0000<>											
DbML PP: 2319         DbML_UNL 2730         DbML UNL 2730         DbML PP: 2440         DbML PP: 2450         DbML PP:				-	-						
DMM, Pip. 2397()         DVML         DVML <thdvml< th="">         DVML         DVML</thdvml<>											
DbML pip: 2350 DMML pip: 2375         DMML JUL 2566         T/177         1.000 000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>											
DbM, pip 2486         DMA (JN, 2686         DMA (JN, 2782         D9397         100000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000			DMM_JUN_2656	170.1767	-	0.3000	0.0000	0.0000	0.0000	0.0000	
DbM, Pip 3407         DbM, JUL 2722         DbM, JUL 3722         DbM, JUL 3722         DbM, JUL 3722         DbM, JUL 3724         DbM, JUL	DMM_PIP_2397(2)	J-14	DMM_VAL_8152	381.3947	1,000.0000	0.3000	0.0000	0.0000	0.0000	0.0000	Closed
DMM, PP, 311         DMM, JUN, 3062         DMM, JUN, 2734         600 2352         100000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000<	DMM_PIP_2185	DMM_JUN_2656	DMM_JUN_2732	209.3597	1,000.0000	0.3000	0.0000	0.0000	0.0000	0.0000	Open
DMM, Pip 2409         DMM, JUN 3052         DMM/282         15.8176         400.000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000	DMM_PIP_2407	DMM_JUN_2732	DMM_JUN_3052	288.7430	1,000.0000	0.3000	-0.2179	0.0003	0.0000	0.0000	Open
Prys7         DMAV.292         DMM_UN.3054         12.9162         400.000         0.3000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>											
DMM, PP 3411         DMM_JUN 2734         DMM_JUN 3068         355 9824         100 0000         0.3000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000 <td></td>											
DMM, PP 3177         DMM, JUN 3086         DMM, JUN 3076         483 5338         1000.000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000<											
DMM_PP_3881         DMM_UN_3787         DMM_UN_3787 <thdmm_un_3787< th=""> <thdmm_un_3787< th=""></thdmm_un_3787<></thdmm_un_3787<>											
DBM_pP_3199         DMA_LUN_3376         DEAL         DEAL <thdeal< th="">         DEAL         DEAL<td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thdeal<>											
prgg         DMM_213         DMM_21N_326         18.914         40.0000         0.3000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.				-							
DMM_PIP_3185         DIM_JUN_3062         DiM_SIP_3176         400.000         0.300         55.359         0.4403         0.0069         0.5333         Open           DMM_PIP_3183         DIM_JUN_3062         2200         400.000         0.3000         55.359         0.4403         0.011         0.0553         Open           DMM_PP_3181         DIM_JUN_3062         200.000         0.3000         45.0048         0.0716         0.0011         0.0053         Open           DMM_PP_3181         DIM_JUN_3062         DMM_JUN_3066         27.305         400.0000         0.3000         109.3662         0.8713         0.0514         1.8116         Open           DMM_PP_3181         DMM_JUN_3066         DMM_JUN_3070         11.906         400.0000         0.3000         407.020         0.2464         0.033         0.246         0.033         0.246         0.033         0.246         0.033         0.246         0.033         0.246         0.033         0.246         0.033         0.246         0.033         0.2467         0.0352         0.0472         0.0364         0.0475         0.0475         0.0475         0.0475         0.0475         0.0475         0.0475         0.0475         0.0475         0.0475         0.0414         0.0475											
DMM, PP, 3185A         DMA/V51         DMM, JUN, 2000         Z5:330         400.0000         5:339         0.4430         0.122         0.5301         Open           DMM, JPP, 2417         DMM, JUN, 2302         DMM, JUN, 2364         F75544         1000.000         0.3000         40.04148         0.7713         0.0422         0.0622         Open           DMM, JPP, 313         DMM, JUN, 3064         DMM, JUN, 2706         0.830244         F75544         1.000.0000         0.3000         40.7487         0.3244         0.0622         Open           DMM, JPP, 3197         DMM, JUN, 3066         DMM, JUN, 3066         DMM, JUN, 3066         DMM, JUN, 3066         0.3000         40.7887         0.3244         0.0033         0.2806         Open           DMM, JPP, 3195         DMM, JUN, 3066         DMM, JUN, 2785         0.503         400.0000         0.3000         47.7226         0.3724         0.0052         0.3847         Open           DMM, JUN, 2783         DMM/VS3         DMM/JUN, 2786         1.400.0000         0.3000         47.724         0.0366         0.6675         Open           DMM, JUN, 2786         DMM, JUN, 2786         TMM, JUN, 2786         1.000.0000         0.3000         2.1748         0.0336         0.6675         Open <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr<>											
DMM_piP_3183         DMM_JUN_2736         DMM_JUN_2736         DMM_JUN_3064         Processor         Processor <td></td>											
DBML piP 2417         DVM JUN 2736         DVM JUN 3064         DVM JUN 3064         DVM JUN 3065				-							
DMM_IPIP_3193         DMM_JUN_3066         DMM_JUN_2068         Z7 305         400.0000         0.3000         109.3867         0.0250         0.0422         Open           DMM_FIP_3197         DMM_JUN_3066         DMM_JUN_3067         11.809         400.0000         0.3000         40.7867         0.3246         0.00250         0.0242         Open           DMM_PIP_3197         DMM_JUN_3066         DMM_JUN_3068         11.9030         400.0000         0.3000         40.7867         0.3246         0.0021         0.0764         Open           DMM_PP3199         DMM_JUN_2738         DMMVS3         14.2968         400.0000         0.3000         46.7926         0.0721         0.0152         0.0524         Open           DMM_PP3 303         DMM_VXL_8184         DMM_Z915         37.0839         400.0000         0.3000         45.7926         0.0271         0.0386         0.0687         Open           DMM_PP3 2431         DMM_VXL_8184         DMM_VXL_8184         122.1451         1.000.0000         0.3000         2.1778         0.0366         0.0687         Open           DMM_PP3 2431         DMM_VXL_8184         123.4107         1.000.0000         0.3000         2.181.851         0.0711         1.2446         Open           DMM_PP3 2											
DMM_IPIP_3187         DMM_JUN_2738         593.0261         1000.000         3.000         170.0564         0.02165         0.0230         0.2165         0.0230         0.0230         0.0230         0.0230         0.0230         0.0230         0.0230         0.0230         0.0230         0.0230         0.0230         0.0230         0.0230         0.0330         0.0230         0.0332         0.0230         0.0332         0.0330         0.0330         0.0332         0.0330         0.0330         0.0332         0.0330         0.0332         0.0332         0.0332         0.0332         0.0332         0.0332         0.0330         0.0330         0.0332         0.0332         0.0332         0.0332         0.0332         0.0332         0.0332         0.0336         0.0336         0.0336         0.0336         0.0336         0.0336         0.0336         0.0336         0.0336         0.0336         0.0336         0.0336         0.0336         0.0336         0.0336         0.0336         0.0336         0.0336         0.0336         0.0336         0.0315         0.3484         0.0360         0.0336         0.0315         0.3484         0.0360         0.0300         2.031         1.246         0.066         0.000         0.0300         2.111780         0.2714				27.3053	400.0000	0.3000	109.3662	0.8703	0.0514	1.8816	
DMM_PIP_3195         DMM_JUN_2066         DMM_JUN_3068         119:039         400.0000         0.3000         68.5666         0.5456         0.091         0.7604         Open           DMM_JUN_2738         DMM/S3         DMM/S3         14.2983         400.0000         0.3000         46.7926         0.3724         0.0152         0.3647         Open           DMM_VAT_8184         DMM_JUN_2976         42.8756         1.000.000         0.3000         46.7926         0.3724         0.0135         0.3647         Open           DMM_PIP_3053         DMM_JUN_2276         42.8756         1.000.0000         0.3000         -2117.1864         0.2791         0.0028         0.6682         Open           DMM_PIP_3043         DMM_JUN_2380         DMM_JUN_2675         572.1145         1.000.0000         0.3000         -219.77864         0.2791         0.0036         0.6675         Open           DMM_PIP_3049         TANK_7 I_PS         DMM_VAL_8182         13.3561         120.0000         0.3000         2.369.2462         1.5391         0.0171         1.2468         Open           DMM_PIP_3045         DMM_VAL_8182         DMM_VAL_8182         13.3561         1.000.000         0.3000         2.369.2462         1.5391         0.0171         1.2468 <t< td=""><td></td><td>DMM_JUN_3064</td><td>DMM_JUN_2738</td><td>593.0266</td><td>1,000.0000</td><td>0.3000</td><td>-170.0548</td><td>0.2165</td><td>0.0250</td><td>0.0422</td><td></td></t<>		DMM_JUN_3064	DMM_JUN_2738	593.0266	1,000.0000	0.3000	-170.0548	0.2165	0.0250	0.0422	
DMM_UN_2738         DMM_V3         14 2963         400.0000         0.3000         46 7928         0.3724         0.052         0.3847         Open           DMM_UN_2738A         DMM_V3         DMM_V3         DMM_V3         DMM_V3         0.0000         0.3000         46 7928         0.3724         0.0136         0.3646         Open           DMM_UN_2738A         DMM_VAL_B184         DMM_UN_276         42.876         1.000.000         0.3000         46 7928         0.3724         0.0126         0.0682         Open           DMM_PIP_3043         DMM_UN_2738         DMM_UN_2876         572.1145         1.000.0000         0.3000         -217.8694         0.2774         0.0366         0.6683         Open           DMM_PIP_3043         DMM_UN_2860         24.8994         1.400.0000         0.3000         2.369.2962         1.5391         0.0310         1.2468         Open           DMM_PIP_3055         DMM_VAL_8186         31.3565         1.400.0000         0.3000         2.489.2981         1.6971         0.0366         0.683         Open           DMM_PIP_3055         DMM_VAL_8186         31.356         1.200.0000         0.3000         2.489.2981         1.6971         1.2468         Open         DMM_PIP         322740         Op	DMM_PIP_3197	DMM_JUN_3066	DMM_JUN_3070	11.8099	400.0000	0.3000	40.7887	0.3246	0.0033	0.2808	Open
DMM_UN_238A DMM_PIP_3053         DMA/V53         DMM_2915         37.0639         400.0000         0.3000         46.7926         0.3724         0.135         0.3648         Open           ID         From Node         To Node         Length (m)         Diameter (m)         Diameter (m)         Diameter (m)         Diameter (m)         Velocity         Headloss         HU1000         Status           DMM_PIP_343         DMM_JUN_2786         DMM_JUN_2876         572.1145         1.000.0000         0.3000         2.19.7864         0.2774         0.0386         0.6675         Open           DMM_PIP_343         DMM_JUN_2860         DMM_VL_8184         132.4107         1.000.0000         0.3000         2.19.7864         0.2774         0.0386         0.6675         Open           DMM_PIP_3049         TANK.71_PS         DMM_VL_8182         1.83756         1.400.0000         0.3000         2.369.2962         1.5391         0.0171         1.2468         Open           DMM_PIP_3055         DMM_VL_8182         DMM_VL_8182         1.83756         1.400.0000         0.3000         2.485.381         1.6997         0.0368         2.2738         Open           DMM_PIP_3537         DMM_VL_8266         DMM_JUN_2276         1.61688         1.000.000         0.3000	DMM_PIP_3195	DMM_JUN_3066	DMM_JUN_3068	11.9030	400.0000	0.3000	68.5666	0.5456	0.0091	0.7604	Open
DMM_PIP_3053         DMM_VAL_8184         DMM_JUN_2976         42.8756         1.000.0000         0.3000         219.1789         0.2791         0.0029         0.0682         Open           ID         From Node         To Node         Length (mm)         Diameter (mm)         Roughness (mm)         Flow (ms)         Velocity (ms)         Headloss (ms)         HL/1000 (ms)         Status           DMM_PIP_3043         DMM_JUN_2786         DMM_JUN_2860         DMM_VLB 184         132.4107         1.000.0000         0.3000         219.1789         0.2774         0.0386         0.0675         Open           DMM_PIP_3043         DMM_VAL_8182         DMM_VAL_8186         133.356         1.200.0000         0.3000         2.189.2982         1.5391         0.1011         1.2471         Open           DMM_PIP_3055         DMM_VAL_8186         13.3356         1.200.0000         0.3000         2.185.292         1.4922         1.3391         0.1913         1.2486         Open           DMM_PIP_3537         DMM_VAL_8186         TISTY 1         1.6686         1.000.0000         0.3000         2.148.5389         1.897         0.0378         2.2738         Open           DMM_PIP_3537         DMM_VAL_8246         DMM_UN_2344         1.15107         1.000.0000         0.3	DMM_PIP_3199	DMM_JUN_2738	DMAV53	14.2963	400.0000	0.3000	46.7926	0.3724	0.0052	0.3647	Open
ID         From Node         To Node         Length (m)         Diameter (mm)         Roughness (mm)         Flow (L/s)         Velocity (m/s)         Headloss         HL/1000 (m/s/s)         Status           DMM, PIP 2421         DMM, JUN, 2830         DMM, JUN, 2831         DMM, JUN, 2831         DMM, JUN, 2830         DMM, JUN, 2831         DMM, JUN, 2832         DMM, JUN, 2831         DMM, JUN, 2832         DMM, JUN, 2832         DMM, JUN, 2834         DMM, JUN, 2834         DMM, JUN, 2832         DMM, JUN, 2832         DMM, JUN, 2832         DMM, JUN, 2834         DMM	DMM_JUN_2738A	DMAV53	DMM_2915	37.0639	400.0000	0.3000	46.7926	0.3724	0.0135	0.3648	Open
U         Prom Noole         10 Noole         (m)         (mn)         (mn)         (m)	DMM_PIP_3053	DMM_VAL_8184	DMM_JUN_2976	42.8756	1,000.0000	0.3000	219.1789	0.2791	0.0029	0.0682	Open
U         Prom Noole         10 Noole         (m)         (mn)         (mn)         (m)											
DMM_PIP_2421         DMM_JUN_2738         DMM_JUN_2976         572.1145         1,000.000         0.3000         217.8694         0.2774         0.0386         0.0675         Open           DMM_PIP_3043         DMM_JUN_2800         DMM_VAL_8184         132.4107         1,000.0000         0.3000         2189.2962         1.5391         0.0310         1.2486         Open           DMM_PIP_3049         TANK.71_PS         DMM_VAL_8182         13.6756         1,400.0000         0.3000         2.389.2962         1.5391         0.0171         1.2471         Open           P813         JS4         TANK.71_PS         DMM_VAL_8186         31.3356         1.200.0000         0.3000         2.389.2962         1.5391         0.0171         1.2471         Open           P813         JS4         TANK.71_PS         15.5040         1.400.0000         0.3000         2.189.397         0.0388         2.2738         Open           DMM_PIP_3537         DMM_VAL_8246         10.51604         1.000.0000         0.3000         65.9427         0.8479         0.0105         0.5823         Open           DMM_PIP_3533         DMM_JUN_3282         DMM_JUN_3284         10.5100.0000         0.3000         65.9427         0.8479         0.1102         3.6084         Ope											
DMM_PIP_3043         DMM_JUN_2860         DMM_VAL_8184         132.4107         1,000.0000         0.3000         219.1789         0.2791         0.0090         0.0683         Open           DMM_VID_ET         DMM_VAL_8182         DMM_JUN_2800         24.8994         1,400.0000         0.3000         2,369.2962         1,5391         0.0110         1.2468         Open           DMM_PIP_201         DMM_VAL_8182         16.766         1,400.0000         0.3000         2,369.2962         1.5391         0.0171         1.2471         Open           P813         J54         TANK_71_PS         15.5040         1,400.0000         0.3000         2,148.5389         1.8997         0.0388         2.2738         Open           DMM_PIP_3529         DMM_JUN_2878         DMM_JUN_2824         11.5117         1,000.0000         0.3000         1,71922         1,4022         1.0399         1,7621         Open           DMM_VID_3535         DMM_JUN_3284         DMM_JUN_2824         1.5171         1,000.000         0.3000         665.9427         0.8479         0.067         0.5818         Open           DMM_PIP_3533         DMM_JUN_3284         DMM_JUN_2392         1.04246         10.0644         1,000.000         0.3000         665.9427         0.8479	ID	From Node	To Node								Status
TANK710UTLET         DMM_VAL_8182         DMM_UN_2980         24.8994         1,400.0000         0.3000         2,369.2962         1.5391         0.0310         1.2468         Open           DMM_PIP_3049         TANK_71_PS         DMM_VAL_8182         13.6756         1,400.0000         0.3000         2,369.2962         1.5391         0.0111         1.2471         Open           P813         J54         TANK_71_PS         15.5040         1,400.0000         0.3000         2,148.5389         1.8997         0.0713         2.2740         Open           DMM_PIP_3529         DMM_VAL_8186         DMM_JUN_2378         16.1688         1200.0000         0.3000         1,171.982         1.4521         Open           DMM_PIP_3537         DMM_JUN_2378         DMM_JUN_3284         11.5117         1.000.0000         0.3000         665.9427         0.8479         0.0067         0.5818         Open           DMM_PIP_3531         DMM_JUN_3284         DMM_JUN_2396         70.0000         0.3000         665.9427         0.8479         0.0105         0.5823         Open           DMM_PIP_3531         DMM_JUN_3284         DMM_JUN_2396         71.794         1200.0000         0.3000         505.3228         0.4468         0.00043         0.1348         Open     <				(m)	(mm)	(mm)	(L/s)	(m/s)	(m)	(m/k-m)	
DMM_PIP_3049         TANK_71_PS         DMM_VAL_8182         13.6756         1,400.0000         2,369.2962         1.5391         0.0171         1.2471         Open           DMM_PIP_2201         DMM_UUN_2980         DMM_VAL_8186         31.3356         1.200.0000         2,369.2962         1.5391         0.0173         2.2740         Open           DMM_PIP_3055         DMM_VAL_8186         DMM_UUN_2978         166.1688         1.200.0000         0.3000         2,148.5389         1.8997         0.0368         2.2738         Open           DMM_PIP_3535         DMM_VAL_8246         DMM_UUN_3284         115117         1.000.000         0.3000         665.9427         0.8479         0.0015         0.5818         Open           DMM_PIP_3535         DMM_UN_2282         DMM_VAL_8246         18.0664         1.000.000         0.3000         665.9427         0.8479         0.0105         0.5823         Open           DMM_PIP_3533         DMM_UN_2282         DMM_JUN_2390         13.3101         1.000.0000         0.3000         655.831         0.4468         0.0043         0.1348         Open           DMM_PIP_1137         DMM_JUN_2382         DMM_JUN_2382         1.0100.0000         0.3000         505.3831         0.4468         0.0028         1.1424	DMM_PIP_2421	DMM_JUN_2738	DMM_JUN_2976	(m) 572.1145	(mm) 1,000.0000	(mm) 0.3000	(L/s) -217.8694	(m/s) 0.2774	(m) 0.0386	(m/k-m) 0.0675	Open
DMM_PIP_2201         DMM_JUN_2890         DMM_VAL_8186         31.3356         1.200.000         0.3000         2,148.5389         1.8997         0.0713         2.2740         Open           P813         JS4         TANK_T1_PS         15.5040         1,400.0000         0.3000         2,148.5389         18.997         0.0368         2.2738         Open           DMM_PIP_3529         DMM_VAL_8166         DMM_JUN_3282         590.1604         1.000.000         0.3000         1,171.9829         1.4922         1.0399         1.7621         Open           DMM_PIP_3535         DMM_ULN_2824         DMM_JUN_3284         115.117         1.000.0000         0.3000         665.9427         0.8479         0.0165         0.5823         Open           DMM_PIP_3533         DMM_JUN_2282         DMM_JUN_2390         I.33610         1.000.0000         0.3000         665.9427         0.8479         0.0165         0.5823         Open           DMM_PIP_3533         DMM_JUN_23282         DMM_JUN_2392         I.1794         1.200.0000         0.3000         505.4500         0.6436         0.0043         0.1348         Open           DMM_PIP_1333         DMM_JUN_2392         DMM_JUN_23121         1.000.0000         0.3000         84.6198         0.6734         0.0226 <td>DMM_PIP_2421 DMM_PIP_3043</td> <td>DMM_JUN_2738 DMM_JUN_2980</td> <td>DMM_JUN_2976 DMM_VAL_8184</td> <td>(m) 572.1145 132.4107</td> <td>(mm) 1,000.0000 1,000.0000</td> <td>(mm) 0.3000 0.3000</td> <td>(L/s) -217.8694 219.1789</td> <td>(m/s) 0.2774 0.2791</td> <td>(m) 0.0386 0.0090</td> <td>(m/k-m) 0.0675 0.0683</td> <td>Open Open</td>	DMM_PIP_2421 DMM_PIP_3043	DMM_JUN_2738 DMM_JUN_2980	DMM_JUN_2976 DMM_VAL_8184	(m) 572.1145 132.4107	(mm) 1,000.0000 1,000.0000	(mm) 0.3000 0.3000	(L/s) -217.8694 219.1789	(m/s) 0.2774 0.2791	(m) 0.0386 0.0090	(m/k-m) 0.0675 0.0683	Open Open
P813         J54         TANK_T_PS         15.5040         1,400.0000         0.3000         2,369.2962         1.5391         0.0193         1.2468         Open           DMM_PIP_3655         DMM_UAL_8186         DMM_JUN_2978         I6.1688         1,200.0000         0.3000         1,148.5389         1.8997         0.0368         2.2738         Open           DMM_PIP_3535         DMM_UAL_8246         DMM_UN_3282         590.1604         1,000.0000         0.3000         1,119.829         1,4922         1.0399         1.7621         Open           DMM_PIP_3535         DMM_JUN_3282         DMM_UN_23284         11.5117         1,000.0000         0.3000         665.9427         0.8479         0.0067         0.5818         Open           DMM_PIP_3533         DMM_JUN_3282         DMM_JUN_2390         13.3610         1,000.0000         0.3000         505.4500         0.6436         0.0045         0.3404         Open           DMM_PIP_1137         DMM_JUN_2392         DMM_JUN_2392         31.7794         1,200.0000         0.3000         505.3228         0.4468         0.0002         0.3002         0.52432         0.2662         Open           DMM_PIP_3631         DMM_JUN_3348         DMM_JUN_3348         0.7164         1,000.0000         0.3000	DMM_PIP_2421 DMM_PIP_3043 TANK71OUTLET	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980	(m) 572.1145 132.4107 24.8994	(mm) 1,000.0000 1,000.0000 1,400.0000	(mm) 0.3000 0.3000 0.3000	(L/s) -217.8694 219.1789 2,369.2962	(m/s) 0.2774 0.2791 1.5391	(m) 0.0386 0.0090 0.0310	(m/k-m) 0.0675 0.0683 1.2468	Open Open Open
DMM_PIP_3055         DMM_VAL_8186         DMM_UN_2978         16.1688         1.200.0000         0.3000         2,148.5389         1.8997         0.0368         2.2738         Open           DMM_PIP_3529         DMM_VAL_8246         DMM_UN_3282         590.1604         1,000.0000         0.3000         1,719.829         1.4922         1.0399         1.7621         Open           DMM_PIP_3535         DMM_UN_2828         DMM_UN_2284         115117         1.000.0000         0.3000         665.9427         0.8479         0.0165         0.5818         Open           DMM_PIP_3533         DMM_JUN_3284         DMM_JUN_2394         36.0959         700.0000         0.3000         665.9427         0.8479         0.0105         0.5823         Open           DMM_PIP_3531         DMM_JUN_3284         DMM_JUN_2394         13.3610         1.000.0000         0.3000         505.4500         0.6436         0.0045         0.3404         Open           DMM_PIP_1317         DMM_JUN_3284         DMM_3406         6.5543         1.200.0000         0.3000         505.331         0.4468         0.0002         0.2281         1.1424         Open           DMM_PIP_3617         DMM_JUN_3348         DMM_JUN_3284         0.7184         1.000.0000         0.3000         360.24	DMM_PIP_2421 DMM_PIP_3043 TANK71OUTLET DMM_PIP_3049	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182	(m) 572.1145 132.4107 24.8994 13.6756	(mm) 1,000.0000 1,000.0000 1,400.0000 1,400.0000	(mm) 0.3000 0.3000 0.3000 0.3000	(L/s) -217.8694 219.1789 2,369.2962 2,369.2962	(m/s) 0.2774 0.2791 1.5391 1.5391	(m) 0.0386 0.0090 0.0310 0.0171	(m/k-m) 0.0675 0.0683 1.2468 1.2471	Open Open Open Open
DMM_PIP_3529         DMM_JUN_2978         DMM_JUN_3282         590.1604         1,000.0000         0.3000         1,171.9829         1.4922         1.0399         1.7621         Open           DMM_PIP_3537         DMM_JUN_3282         DMM_VAL_8244         11.5117         1,000.0000         0.3000         665.9427         0.8479         0.0067         0.5818         Open           DMM_PIP_3533         DMM_JUN_3284         DMM_VAL_8244         18.0664         1,000.0000         0.3000         665.9427         0.8479         0.0105         0.5823         Open           DMM_PIP_3531         DMM_JUN_3282         DMM_JUN_2390         13.3610         1,000.0000         0.3000         665.9427         0.8479         0.0045         0.3404         Open           DMM_PIP_3531         DMM_JUN_3282         DMM_JUN_2392         1.7794         1.200.0000         0.3000         505.4500         0.6436         0.0045         0.3404         Open           DMM_PIP_3031         DMM_JUN_33292         DMM_JUN_3348         0.7164         1.000.0000         0.3000         505.3228         0.4468         0.0022         0.2662         Open           DMM_PIP_3631         DMM_JUN_3348         DMM_JUN_3350         2.31385         400.00000         0.3000         84.6198	DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_2201	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186	(m) 572.1145 132.4107 24.8994 13.6756 31.3356	(mm) 1,000.0000 1,000.0000 1,400.0000 1,400.0000 1,200.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) -217.8694 219.1789 2,369.2962 2,369.2962 2,148.5389	(m/s) 0.2774 0.2791 1.5391 1.5391 1.8997	(m) 0.0386 0.0090 0.0310 0.0171 0.0713	(m/k-m) 0.0675 0.0683 1.2468 1.2471 2.2740	Open Open Open Open Open
DMM_PIP_3535         DMM_UUN_3282         DMM_VAL_8246         18.0664         1,000.0000         0.3000         665.9427         0.8479         0.0105         0.5823         Open           DMM_PIP_3531         DMM_UUN_3284         DMM_UUN_2394         36.0959         700.000         0.3000         665.9427         0.8479         0.0105         0.5823         Open           DMM_PIP_3531         DMM_UUN_3284         DMM_UUN_2390         13.3610         1,000.0000         0.3000         505.4500         0.6436         0.0045         0.3404         Open           DMM_PIP_1137         DMM_UUN_2392         DMM_JUN_3206         6.5543         1,200.0000         0.3000         505.3228         0.4468         0.0022         0.2662         Open           DMM_PIP_3611         DMM_UN_3408         DMM_UN_3484         0.7164         1,000.0000         0.3000         84.6198         0.6734         0.0228         1.1424         Open           DMM_PIP_3631         DMM_UN_2348         DMM_UN_2348         33.1554         1,000.0000         0.3000         84.6198         0.6734         0.0228         1.1424         Open           DMM_PIP_3631         DMM_UN_2348         DMM_UN_2348         33.1554         1,000.0000         0.3000         239.710         0.4581 </td <td>DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_2201 P813</td> <td>DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54</td> <td>DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS</td> <td>(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040</td> <td>(mm) 1,000.0000 1,000.0000 1,400.0000 1,400.0000 1,200.0000 1,400.0000</td> <td>(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000</td> <td>(L/s) -217.8694 219.1789 2,369.2962 2,369.2962 2,148.5389 2,369.2962</td> <td>(m/s) 0.2774 0.2791 1.5391 1.5391 1.8997 1.5391</td> <td>(m) 0.0386 0.0090 0.0310 0.0171 0.0713 0.0193</td> <td>(m/k-m) 0.0675 0.0683 1.2468 1.2471 2.2740 1.2468</td> <td>Open Open Open Open Open Open</td>	DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_2201 P813	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS	(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040	(mm) 1,000.0000 1,000.0000 1,400.0000 1,400.0000 1,200.0000 1,400.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) -217.8694 219.1789 2,369.2962 2,369.2962 2,148.5389 2,369.2962	(m/s) 0.2774 0.2791 1.5391 1.5391 1.8997 1.5391	(m) 0.0386 0.0090 0.0310 0.0171 0.0713 0.0193	(m/k-m) 0.0675 0.0683 1.2468 1.2471 2.2740 1.2468	Open Open Open Open Open Open
DMM_PIP_3535         DMM_UN_3282         DMM_VAL_E246         18.0664         1,000.0000         0.3000         665.9427         0.8479         0.0105         0.5823         Open           DMM_PIP_3531         DMM_UN_3284         DMM_UN_2394         36.0959         700.0000         0.3000         665.9427         0.8479         0.0105         0.5823         Open           DMM_PIP_3531         DMM_UN_3282         DMM_UN_2390         13.3610         1,000.0000         0.3000         505.4500         0.6436         0.0045         0.3404         Open           DMM_PIP_1137         DMM_UN_2390         DMM_UN_3230         31.7794         1,200.0000         0.3000         505.3228         0.4468         0.0099         0.1348         Open           DMM_PIP_3611         DMM_JUN_3348         DMM_UN_3348         0.7164         1,000.0000         0.3000         84.6198         0.6734         0.0264         1.1424         Open           DMM_PIP_3631         DMM_UN_3284         33.1554         1,000.0000         0.3000         380.2042         0.4581         0.0688         0.1764         Open           DMM_PIP_3631         DMM_UN_2816         149.5690         1,000.0000         0.3000         239.710         0.4581         0.0680         Open	DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3055	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978	(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040 16.1688	(mm) 1,000.0000 1,000.0000 1,400.0000 1,200.0000 1,400.0000 1,200.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) -217.8694 219.1789 2,369.2962 2,369.2962 2,148.5389 2,369.2962 2,148.5389	(m/s) 0.2774 0.2791 1.5391 1.5391 1.8997 1.5391 1.8997	(m) 0.0386 0.0090 0.0310 0.0171 0.0713 0.0193 0.0368	(m/k-m) 0.0675 0.0683 1.2468 1.2471 2.2740 1.2468 2.2738	Open Open Open Open Open Open Open
DMM_PIP_3531         DMM_JUN_3282         DMM_JUN_2390         13.3610         1,000.000         0.3000         505.4500         0.6436         0.0045         0.3404         Open           DMM_PIP_11137         DMM_JUN_2390         DMM_JUN_2392         31.7794         1,200.0000         505.3811         0.4468         0.0043         0.1348         Open           DMM_PIP_2117         DMM_3UN_2392         DMM_3406         6.5431         1,200.0000         0.3000         505.3228         0.4468         0.0002         0.2662         Open           DMM_PIP_3631         DMM_JUN_3348         DMM_VAL_8248         19.9899         400.0000         0.3000         84.6198         0.6734         0.0228         1.1424         Open           DMM_PIP_3627         DMM_JUN_3348         DMM_JUN_3350         23.1385         400.0000         0.3000         84.6198         0.6734         0.02264         1.1425         Open           DMM_PIP_3627         DMM_JUN_3288         DMM_JUN_2816         149.5690         1,000.000         0.3000         84.6198         0.6734         0.0226         1.764         Open           DMM_PIP_3627         DMM_JUN_3288         DMM_JUN_3282         14.00.0000         0.3000         239.4174         0.3048         0.0121         0.6803<	DMM_PIP_2421 DMM_PIP_3043 TANK71OUTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3055 DMM_PIP_3529	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_VAL_8186	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_3282	(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604	(mm) 1,000.0000 1,000.0000 1,400.0000 1,400.0000 1,200.0000 1,200.0000 1,000.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) -217.8694 219.1789 2,369.2962 2,369.2962 2,148.5389 2,369.2962 2,148.5389 1,171.9829	(m/s) 0.2774 0.2791 1.5391 1.5391 1.8997 1.5391 1.8997 1.4922	(m) 0.0386 0.0090 0.0310 0.0171 0.0713 0.0193 0.0368 1.0399	(m/k-m) 0.0675 0.0683 1.2468 1.2471 2.2740 1.2468 2.2738 1.7621	Open Open Open Open Open Open Open Open
DMM_PIP_3531         DMM_JUN_3282         DMM_JUN_2390         13.3610         1,000.000         0.3000         505.4500         0.6436         0.0045         0.3404         Open           DMM_PIP_1143         DMM_JUN_2390         DMM_JUN_2392         31.7794         1,200.0000         0.3000         505.3831         0.4468         0.0043         0.1348         Open           DMM_PIP_2617         DMM_3406         DMM_JUN_3348         0.7164         1,000.000         0.3000         84.6198         0.6734         0.0228         1.1424         Open           DMM_PIP_3627         DMM_JUN_3348         DMM_JUN_2214         113.1321         1,000.0000         0.3000         84.6198         0.6734         0.0228         1.1424         Open           DMM_PIP_3627         DMM_JUN_3348         DMM_JUN_3350         23.1385         400.0000         0.3000         84.6198         0.6734         0.0224         1.1425         Open           DMM_PIP_3627         DMM_JUN_2814         DMM_JUN_3286         1.000.000         0.3000         84.6198         0.6734         0.0264         1.1425         Open           DMM_PIP_3627         DMM_JUN_2814         DMM_JUN_2816         149.5690         1.000.000         0.3000         239.4174         0.3048         0.0121 </td <td>DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3055 DMM_PIP_3529 DMM_PIP_3537</td> <td>DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_VAL_8186 DMM_JUN_2978 DMM_VAL_8246</td> <td>DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_3282 DMM_JUN_3284</td> <td>(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117</td> <td>(mm) 1,000.0000 1,000.0000 1,400.0000 1,400.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000</td> <td>(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000</td> <td>(L/s) -217.8694 219.1789 2,369.2962 2,369.2962 2,148.5389 2,369.2962 2,148.5389 1,171.9829 665.9427</td> <td>(m/s) 0.2774 0.2791 1.5391 1.5391 1.8997 1.5391 1.8997 1.4922 0.8479</td> <td>(m) 0.0386 0.0090 0.0310 0.0171 0.0713 0.0193 0.0368 1.0399 0.0067</td> <td>(m/k-m) 0.0675 0.0683 1.2468 1.2471 2.2740 1.2468 2.2738 1.7621 0.5818</td> <td>Open Open Open Open Open Open Open Open</td>	DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3055 DMM_PIP_3529 DMM_PIP_3537	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_VAL_8186 DMM_JUN_2978 DMM_VAL_8246	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_3282 DMM_JUN_3284	(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117	(mm) 1,000.0000 1,000.0000 1,400.0000 1,400.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) -217.8694 219.1789 2,369.2962 2,369.2962 2,148.5389 2,369.2962 2,148.5389 1,171.9829 665.9427	(m/s) 0.2774 0.2791 1.5391 1.5391 1.8997 1.5391 1.8997 1.4922 0.8479	(m) 0.0386 0.0090 0.0310 0.0171 0.0713 0.0193 0.0368 1.0399 0.0067	(m/k-m) 0.0675 0.0683 1.2468 1.2471 2.2740 1.2468 2.2738 1.7621 0.5818	Open Open Open Open Open Open Open Open
DMM_PIP_1143         DMM_JUN_2392         DMM_3406         6.5543         1,200.000         0.3000         505.3228         0.4468         0.0099         0.1348         Open           DMM_PIP_2617         DMM_3406         DMM_JUN_3348         0.7164         1,000.0000         0.3000         444.9731         0.5666         0.0022         0.26622         Open           DMM_PIP_3627         DMM_JUN_3348         DMM_VL_8248         19.9899         400.0000         0.3000         84.6198         0.6734         0.0228         1.1424         Open           DMM_PIP_3633         DMM_VAL_8248         DMM_JUN_3250         23.1385         400.0000         0.3000         84.6198         0.6734         0.0264         1.1425         Open           DMM_PIP_3631         DMM_VAL_8248         DMM_JUN_3288         33.1554         1,000.0000         0.3000         239.4174         0.04581         0.0588         0.1764         Open           DMM_PIP_3627         DMM_JUN_3288         DMM_JUN_3286         16.0531         400.0000         0.3000         239.4174         0.3048         0.0121         0.0808         Open           DMM_PIP_2623         DMM_JUN_3282         321.1077         1,000.0000         0.3000         238.5874         0.3038         0.0258	DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3055 DMM_PIP_3529 DMM_PIP_3537 DMM_PIP_3535	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_JUN_2978 DMM_VAL_8246 DMM_JUN_3282	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_3284 DMM_JUN_3284 DMM_VAL_8246	(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664	(mm) 1,000.0000 1,000.0000 1,400.0000 1,400.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) -217.8694 219.1789 2,369.2962 2,369.2962 2,148.5389 2,369.2962 2,148.5389 1,171.9829 665.9427 665.9427	(m/s) 0.2774 0.2791 1.5391 1.5391 1.8997 1.5391 1.8997 1.4922 0.8479 0.8479	(m) 0.0386 0.0090 0.0310 0.0171 0.0713 0.0193 0.0368 1.0399 0.0067 0.0105	(m/k-m) 0.0675 0.0683 1.2468 1.2471 2.2740 1.2468 2.2738 1.7621 0.5818 0.5823	Open Open Open Open Open Open Open Open
DMM_PIP_2617         DMM_3406         DMM_JUN_3348         0.7164         1,000.0000         0.3000         444.9731         0.5666         0.0002         0.2662         Open           DMM_PIP_3631         DMM_JUN_3348         DMM_VAL_8248         19.9899         400.0000         0.3000         84.6198         0.6734         0.0228         1.1424         Open           DMM_PIP_3631         DMM_JUN_3348         DMM_JUN_2814         113.1321         1,000.0000         0.3000         86.0200         0.1768         Open           DMM_PIP_3633         DMM_VAL_8248         DMM_JUN_2816         149.5690         1,000.0000         0.3000         359.7810         0.4581         0.0588         0.1764         Open           DMM_PIP_3541         DMM_JUN_2816         IMM_JUN_2816         149.5690         1,000.0000         0.3000         139.4174         0.3048         0.0121         0.0808         Open           DMM_PIP_2627         DMM_JUN_3288         IMM_JUN_3292         321.1077         1,000.0000         0.3000         238.5874         0.3038         0.0258         0.0803         Open           DMM_PIP_2629         DMM_JUN_3290         10.7088         400.0000         0.3000         48.6721         0.3873         0.0017         0.3936         Open <td>DMM_PIP_2421 DMM_PIP_3043 TANK71OUTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3055 DMM_PIP_35529 DMM_PIP_3535 DMM_PIP_3533</td> <td>DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_JUN_2978 DMM_VAL_8246 DMM_JUN_3282 DMM_JUN_3284</td> <td>DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_2282 DMM_JUN_3284 DMM_VAL_8246 DMM_JUN_2394</td> <td>(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959</td> <td>(mm) 1,000.0000 1,000.0000 1,400.0000 1,400.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 700.0000</td> <td>(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000</td> <td>(L/s) -217.8694 219.1789 2,369.2962 2,369.2962 2,148.5389 1,171.9829 665.9427 665.9427 662.9049</td> <td>(m/s) 0.2774 0.2791 1.5391 1.5391 1.8997 1.5391 1.8997 1.4922 0.8479 0.8479 1.7225</td> <td>(m) 0.0386 0.0090 0.0310 0.0171 0.01713 0.0193 0.0368 1.0399 0.0067 0.0105 0.1302</td> <td>(m/k-m) 0.0675 0.0683 1.2468 1.2471 2.2740 1.2468 2.2738 1.7621 0.5818 0.5823 3.6084</td> <td>Open Open Open Open Open Open Open Open</td>	DMM_PIP_2421 DMM_PIP_3043 TANK71OUTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3055 DMM_PIP_35529 DMM_PIP_3535 DMM_PIP_3533	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_JUN_2978 DMM_VAL_8246 DMM_JUN_3282 DMM_JUN_3284	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_2282 DMM_JUN_3284 DMM_VAL_8246 DMM_JUN_2394	(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959	(mm) 1,000.0000 1,000.0000 1,400.0000 1,400.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 700.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) -217.8694 219.1789 2,369.2962 2,369.2962 2,148.5389 1,171.9829 665.9427 665.9427 662.9049	(m/s) 0.2774 0.2791 1.5391 1.5391 1.8997 1.5391 1.8997 1.4922 0.8479 0.8479 1.7225	(m) 0.0386 0.0090 0.0310 0.0171 0.01713 0.0193 0.0368 1.0399 0.0067 0.0105 0.1302	(m/k-m) 0.0675 0.0683 1.2468 1.2471 2.2740 1.2468 2.2738 1.7621 0.5818 0.5823 3.6084	Open Open Open Open Open Open Open Open
DMM_PIP_3631         DMM_JUN_3348         DMM_VAL_8248         19.9899         400.0000         0.3000         84.6198         0.6734         0.0228         1.1424         Open           DMM_PIP_3627         DMM_JUN_3348         DMM_JUN_2814         113.1321         1,000.0000         0.3000         360.2042         0.4586         0.0200         0.1768         Open           DMM_PIP_3633         DMM_VAL_8248         DMM_JUN_3350         23.1385         400.0000         0.3000         360.2042         0.4586         0.0264         1.1425         Open           DMM_PIP_3631         DMM_JUN_2814         DMM_JUN_3288         333.1554         1,000.0000         0.3000         359.7810         0.4581         0.0588         0.1764         Open           DMM_PIP_2627         DMM_JUN_3288         DMM_JUN_2816         149.5690         1,000.0000         0.3000         119.4516         0.9506         0.0359         2.2352         Open           DMM_PIP_2623         DMM_JUN_2816         DMM_JUN_3292         321.1077         1,000.0000         0.3000         148.6721         0.3873         0.0017         0.3936         Open           DMM_PIP_2629A         DMM_JUN_3292         DMAV67         DMM_JUN_3300         415.2813         1,000.0000         0.3000	DMM_PIP_2421 DMM_PIP_3043 TANK71OUTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3055 DMM_PIP_3055 DMM_PIP_3537 DMM_PIP_3533 DMM_PIP_3533	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_VAL_8186 DMM_VAL_8246 DMM_JUN_3282 DMM_JUN_3284 DMM_JUN_3282	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_3282 DMM_JUN_3284 DMM_VAL_8246 DMM_JUN_2394 DMM_JUN_2390 DMM_JUN_2392	(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959 13.3610 31.7794	(mm) 1,000.0000 1,000.0000 1,400.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) -217.8694 219.1789 2,369.2962 2,369.2962 2,148.5389 2,369.2962 2,148.5389 1,171.9829 665.9427 665.9427 662.9049 505.4500	(m/s) 0.2774 0.2791 1.5391 1.5391 1.8997 1.5391 1.8997 1.4922 0.8479 0.8479 1.7225 0.6436	(m) 0.0386 0.0090 0.0310 0.0171 0.0193 0.0368 1.0399 0.0067 0.0105 0.1302 0.0045	(m/k-m) 0.0675 0.0683 1.2468 1.2471 2.2740 1.2468 2.2738 1.7621 0.5818 0.5823 3.6084 0.3404	Open Open Open Open Open Open Open Open
DMM_PIP_3627         DMM_JUN_3348         DMM_JUN_2814         113.1321         1,000.000         0.3000         360.2042         0.4586         0.0200         0.1768         Open           DMM_PIP_3633         DMM_VAL_8248         DMM_JUN_3350         23.1385         400.0000         0.3000         84.6198         0.6734         0.0264         1.1425         Open           DMM_PIP_2621         DMM_JUN_2814         DMM_JUN_3288         333.1554         1,000.0000         0.3000         359.7810         0.4581         0.0588         0.1764         Open           DMM_PIP_2627         DMM_JUN_3288         DMM_JUN_2816         149.5690         1,000.0000         0.3000         239.4174         0.3048         0.0121         0.0808         Open           DMM_PIP_2623         DMM_JUN_3288         DMM_JUN_3292         221.1077         1,000.0000         0.3000         238.5874         0.3038         0.0258         0.0803         Open           DMM_PIP_2629         DMM_JUN_3292         DMAV67         4.3482         400.0000         0.3000         48.6721         0.3873         0.0017         0.3936         Open           DMM_PIP_2629         DMM_JUN_3292         DMAV67         JA482         400.0000         0.3000         48.6721         0.3873	DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3055 DMM_PIP_3529 DMM_PIP_3537 DMM_PIP_3533 DMM_PIP_3531 DMM_PIP_3531	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_JUN_2978 DMM_VAL_8246 DMM_JUN_3284 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_2390 DMM_JUN_2392	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_23282 DMM_JUN_3284 DMM_JUN_2394 DMM_JUN_2390 DMM_JUN_2392 DMM_JUN_2392	(m) 572.1145 132.4107 24.8994 13.6756 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959 13.3610 31.37794 6.5543	(mm) 1,000.0000 1,000.0000 1,400.0000 1,200.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,200.0000 1,200.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) -217.8694 219.1789 2,369.2962 2,148.5389 2,369.2962 2,148.5389 1,171.9829 665.9427 665.9427 665.9427 662.9049 505.4500 505.3831 505.3228	(m/s) 0.2774 0.2791 1.5391 1.5391 1.8997 1.5391 1.8997 1.4922 0.8479 0.8479 0.8479 1.7225 0.6436 0.4469	(m) 0.0386 0.0090 0.0310 0.0171 0.0193 0.0368 1.0399 0.0067 0.0105 0.1302 0.0045 0.0043	(m/k-m) 0.0675 0.0683 1.2468 1.2471 2.2740 1.2468 2.2738 1.7621 0.5818 0.5823 3.6084 0.3404 0.1348	Open Open Open Open Open Open Open Open
DMM_PIP_3633         DMM_VAL_8248         DMM_JUN_3350         23.1385         400.0000         0.3000         84.6198         0.6734         0.0264         1.1425         Open           DMM_PIP_2621         DMM_JUN_2814         DMM_JUN_3288         333.1554         1,000.0000         0.3000         359.7810         0.4581         0.0588         0.1764         Open           DMM_PIP_2621         DMM_JUN_3288         DMM_JUN_2816         149.5690         1,000.0000         0.3000         239.4174         0.3048         0.0121         0.0808         Open           DMM_PIP_2627         DMM_JUN_3288         DMM_JUN_3286         16.0531         400.0000         0.3000         238.5874         0.3038         0.0258         0.0803         Open           DMM_PIP_2629         DMM_JUN_3292         DMAV67         4.3482         400.0000         0.3000         48.6721         0.3873         0.0017         0.3930         Open           DMM_PIP_2629         DMM_JUN_3292         DMAV67         MM_JUN_3300         415.2813         1,000.0000         0.3000         48.6721         0.3873         0.0042         0.3930         Open           DMM_PIP_2639         DMM_JUN_3300         415.2813         1,000.0000         0.3000         172.8698         0.2201	DMM_PIP_2421 DMM_PIP_3043 TANK71OUTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3055 DMM_PIP_3535 DMM_PIP_3535 DMM_PIP_3531 DMM_PIP_3531 DMM_PIP_1137 DMM_PIP_1143	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_VAL_8186 DMM_VAL_8246 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_2390 DMM_JUN_2392 DMM_JUN_2392	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_3282 DMM_JUN_3284 DMM_VAL_8246 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2392 DMM_JUN_3348	(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959 13.3610 31.7794 6.5543 0.7164	(mm) 1,000.0000 1,000.0000 1,400.0000 1,400.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 1,200.0000 1,200.0000 1,200.0000 1,200.0000 1,200.0000 1,200.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) -217.8694 219.1789 2,369.2962 2,369.2962 2,148.5389 2,369.2962 2,148.5389 1,171.9829 665.9427 665.9427 665.9427 665.9427 505.4500 505.3831 505.3228 444.9731	(m/s) 0.2774 0.2791 1.5391 1.5391 1.8997 1.4922 0.8479 0.8479 0.8479 1.7225 0.6436 0.4469 0.4468 0.5666	(m) 0.0386 0.0090 0.0310 0.0171 0.0713 0.0193 0.0368 1.0399 0.0067 0.0105 0.1302 0.0045 0.0045 0.0009 0.0002	(m/k-m) 0.0675 0.0683 1.2468 1.2471 2.2740 2.2740 2.2740 1.2468 2.2738 1.7621 0.5818 0.5823 3.6084 0.3404 0.1348 0.1348 0.2662	Open Open Open Open Open Open Open Open
DMM_PIP_2621         DMM_JUN_2814         DMM_JUN_3288         333.1554         1,000.000         0.3000         359.7810         0.4581         0.0588         0.1764         Open           DMM_PIP_3541         DMM_JUN_3288         DMM_JUN_2816         149.5690         1,000.000         0.3000         239.4174         0.3048         0.0121         0.0808         Open           DMM_PIP_2627         DMM_JUN_3288         DMM_JUN_3292         321.1077         1,000.0000         0.3000         238.5874         0.3038         0.0258         0.0803         Open           DMM_PIP_2623         DMM_JUN_3292         DAV67         4.3482         400.0000         0.3000         48.6721         0.3873         0.0017         0.3936         Open           DMM_PIP_2629A         DMM_V67         DMM_JUN_3290         10.7088         400.0000         0.3000         48.6721         0.3873         0.0042         0.3930         Open           DMM_PIP_2629A         DMM_V67         DMM_JUN_3200         10.7088         400.0000         0.3000         48.6721         0.3873         0.0042         0.3930         Open           P217         DMM_JUN_3292         DMAV63         421.9033         140.3000         0.1000         16.3308         1.0563         3.0951 <td>DMM_PIP_2421 DMM_PIP_3043 TANK71OUTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3055 DMM_PIP_3535 DMM_PIP_3535 DMM_PIP_3533 DMM_PIP_3531 DMM_PIP_1143 DMM_PIP_1143 DMM_PIP_2617 DMM_PIP_3631</td> <td>DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_JUN_2978 DMM_VAL_8246 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3284 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2346 DMM_JUN_3348</td> <td>DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_3282 DMM_JUN_3284 DMM_VAL_8246 DMM_JUN_2390 DMM_JUN_2392 DMM_JUN_2392 DMM_3406 DMM_JUN_3348 DMM_VAL_8248</td> <td>(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959 13.3610 31.7794 6.5543 0.7164 19.9899</td> <td>(mm) 1,000.0000 1,000.0000 1,400.0000 1,200.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 1,200.0000 1,200.0000 1,200.0000 1,200.0000</td> <td>(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 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DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_3282 DMM_JUN_3284 DMM_VAL_8246 DMM_JUN_2390 DMM_JUN_2392 DMM_JUN_2392 DMM_3406 DMM_JUN_3348 DMM_VAL_8248	(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959 13.3610 31.7794 6.5543 0.7164 19.9899	(mm) 1,000.0000 1,000.0000 1,400.0000 1,200.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 1,200.0000 1,200.0000 1,200.0000 1,200.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 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DMM_PIP_3541         DMM_JUN_3288         DMM_JUN_2816         149.5690         1,000.0000         0.3000         239.4174         0.3048         0.0121         0.0808         Open           DMM_PIP_2627         DMM_JUN_3288         DMM_JUN_3286         16.0531         400.0000         0.3000         119.4516         0.9506         0.0359         2.2352         Open           DMM_PIP_2623         DMM_JUN_3292         321.1077         1.000.0000         0.3000         238.5874         0.3038         0.0258         0.0803         Open           DMM_PIP_2629         DMM_JUN_3292         DMAV67         4.3482         400.0000         0.3000         48.6721         0.3873         0.0017         0.3936         Open           DMM_PIP_2629A         DMM_JUN_3292         DMAV67         4.3482         400.0000         0.3000         48.6721         0.3873         0.0042         0.3930         Open           DMM_JUN_3292         DMM_JUN_3290         10.7084         400.0000         0.3000         18.3873         0.0042         0.3930         Open           P217         DMM_JUN_3292         DMM_JUN_3293         140.3000         0.1000         16.3308         1.0563         3.5059         8.3096         Open           P213         D	DMM_PIP_2421 DMM_PIP_3043 TANK71OUTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3055 DMM_PIP_3535 DMM_PIP_3535 DMM_PIP_3533 DMM_PIP_3531 DMM_PIP_1143 DMM_PIP_1143 DMM_PIP_2617 DMM_PIP_3631 DMM_PIP_3627	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_JUN_2978 DMM_VAL_8246 DMM_JUN_3282 DMM_JUN_3284 DMM_JUN_3282 DMM_JUN_2390 DMM_JUN_2392 DMM_JUN_23348 DMM_JUN_3348 DMM_JUN_3348	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_3282 DMM_JUN_3284 DMM_JUN_2394 DMM_JUN_2390 DMM_JUN_2392 DMM_JUN_2392 DMM_JUN_2348 DMM_JUN_3348 DMM_JUN_3348 DMM_VAL_8248 DMM_VAL_8248	(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959 13.3610 31.7794 6.5543 0.7164 19.9899 113.1321	(mm) 1,000.0000 1,000.0000 1,400.0000 1,400.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) -217.8694 219.1789 2,369.2962 2,369.2962 2,148.5389 2,369.2962 2,148.5389 1,171.9829 665.9427 665.9427 665.9427 662.9049 505.4500 505.3831 505.3228 444.9731 84.6198 360.2042	(m/s) 0.2774 0.2791 1.5391 1.5391 1.8997 1.4922 0.8479 0.8479 0.8479 1.7225 0.6436 0.4469 0.4468 0.5666 0.6734 0.4586	(m) 0.0386 0.0090 0.0310 0.0171 0.0713 0.0193 0.0368 1.0399 0.0067 0.0105 0.1302 0.0045 0.0043 0.0043 0.0009 0.0002 0.0228 0.0200	(m/k-m) 0.0675 0.0683 1.2468 1.2471 2.2740 1.2468 2.2738 1.7621 0.5818 0.5823 3.6084 0.3404 0.1348 0.2662 1.1424 0.1768	Open Open Open Open Open Open Open Open
DMM_PIP_2627         DMM_JUN_3288         DMM_JUN_3286         16.0531         400.000         0.3000         119.4516         0.9506         0.0359         2.2352         Open           DMM_PIP_2623         DMM_JUN_2816         DMM_JUN_3292         321.1077         1,000.000         0.3000         238.5874         0.3038         0.0258         0.0803         Open           DMM_PIP_2629         DMM_JUN_3292         DMAV67         4.3482         400.0000         0.3000         48.6721         0.3873         0.0017         0.3936         Open           DMM_PIP_2629A         DMM_JUN_3292         DMM_JUN_3290         10.7088         400.0000         0.3000         48.6721         0.3873         0.0042         0.3930         Open           DMM_PIP_2629A         DMM_JUN_3292         DMAV67         DMM_JUN_3300         415.2813         1,000.0000         0.3000         172.8698         0.2201         0.0181         0.0435         Open           P217         DMM_JUN_3292         DMAV63         421.9033         140.3000         0.1000         16.3308         1.0563         0.0951         8.3096         Open           P219         DMAV63         J30         11.4384         140.3000         0.1000         27.2433         0.8911         4	DMM_PIP_2421 DMM_PIP_3043 TANK71OUTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3055 DMM_PIP_3535 DMM_PIP_3535 DMM_PIP_3533 DMM_PIP_3531 DMM_PIP_1143 DMM_PIP_1143 DMM_PIP_2627 DMM_PIP_3633	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_VAL_8186 DMM_JUN_2978 DMM_VAL_8246 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2392 DMM_JUN_23348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3348	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2282 DMM_JUN_3284 DMM_JUN_2394 DMM_JUN_2394 DMM_JUN_2392 DMM_JUN_2392 DMM_3406 DMM_JUN_3348 DMM_VAL_8248 DMM_JUN_2814 DMM_JUN_2350	(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959 13.3610 31.7794 6.5543 0.7164 19.9899 113.1321 23.1385	(mm) 1,000.0000 1,000.0000 1,400.0000 1,400.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 1,200.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000 400.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) -217.8694 219.1789 2,369.2962 2,369.2962 2,148.5389 1,171.9829 665.9427 665.9427 665.9427 665.9427 665.943 505.3831 505.3228 444.9731 84.6198 360.2042 84.6198	(m/s) 0.2774 0.2791 1.5391 1.5391 1.8997 1.4922 0.8479 0.8479 0.8479 0.8479 0.8479 0.8469 0.4468 0.5666 0.6734 0.4586 0.6734	(m) 0.0386 0.0090 0.0310 0.0171 0.0713 0.0193 0.0368 1.0399 0.0067 0.0105 0.1302 0.0045 0.0045 0.0043 0.0009 0.0002 0.0228 0.0200 0.0264	(m/k-m) 0.0675 0.0683 1.2468 1.2471 2.2740 1.2468 2.2738 1.7621 0.5818 0.5823 3.6084 0.3404 0.1348 0.1348 0.1348 0.2662 1.1424 0.1768 1.1425	Open Open Open Open Open Open Open Open
DMM_PIP_2623         DMM_JUN_2816         DMM_JUN_3292         321.1077         1,000.000         0.3000         238.5874         0.3038         0.0258         0.0803         Open           DMM_PIP_2629         DMM_JUN_3292         DMAV67         4.3482         400.0000         0.3000         48.6721         0.3873         0.0017         0.3936         Open           DMM_PIP_2629A         DMAV67         DMM_JUN_3290         10.7088         400.0000         0.3000         48.6721         0.3873         0.0042         0.3930         Open           DMM_PIP_2629A         DMM_JUN_3292         DMM_JUN_3300         415.2813         1,000.0000         0.3000         172.8698         0.2201         0.0181         0.0435         Open           P217         DMM_JUN_3292         DMAV63         421.9033         140.3000         0.1000         16.3308         1.0563         3.5059         8.3096         Open           P219         DMAV63         J30         11.4384         140.3000         0.1000         27.2433         0.8911         4.9053         3.9442         Open           P213         DMM_JUN_3300         DMAV62         J28         14.4390         197.3000         0.1000         27.2433         0.8911         4.9050	DMM_PIP_2421 DMM_PIP_3043 TANK71OUTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3055 DMM_PIP_3535 DMM_PIP_3535 DMM_PIP_3533 DMM_PIP_3531 DMM_PIP_3531 DMM_PIP_1437 DMM_PIP_1437 DMM_PIP_2617 DMM_PIP_3633 DMM_PIP_3633 DMM_PIP_2621	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_VAL_8186 DMM_JUN_2978 DMM_VAL_8246 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2392 DMM_JUN_2348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3348 DMM_VAL_8248 DMM_JUN_2814	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_2978 DMM_JUN_2844 DMM_JUN_2394 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2392 DMM_JUN_3348 DMM_JUN_348 DMM_JUN_2814 DMM_JUN_2814 DMM_JUN_3350 DMM_JUN_3288	(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959 13.3610 31.7794 6.5543 0.7164 19.9899 113.1321 23.1385 333.1554	(mm) 1,000.0000 1,000.0000 1,400.0000 1,400.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 400.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) -217.8694 219.1789 2,369.2962 2,369.2962 2,148.5389 1,171.9829 665.9427 665.9427 665.9427 665.9431 505.4500 505.3228 444.9731 846.198 360.2042 84.6198 359.7810	(m/s) 0.2774 0.2791 1.5391 1.5391 1.8997 1.4922 0.8479 0.8479 0.8479 0.8479 0.8479 0.8479 0.8468 0.6436 0.6436 0.6666 0.6734 0.4586	(m) 0.0386 0.0090 0.0310 0.0171 0.0193 0.0368 1.0399 0.0067 0.0105 0.1302 0.0045 0.0043 0.0009 0.00028 0.0228 0.0228 0.0264 0.0588	(m/k-m) 0.0675 0.0683 1.2468 1.2471 2.2740 1.24740 1.24740 2.2738 1.7621 0.5818 0.5823 3.6084 0.3404 0.1348 0.3404 0.1348 0.2662 1.1424 0.1764	Open Open Open Open Open Open Open Open
DMM_PIP_2629         DMM_JUN_3292         DMAV67         4.3482         400.000         0.3000         48.6721         0.3873         0.0017         0.3936         Open           DMM_PIP_2629A         DMAV67         DMM_JUN_3290         10.7088         400.0000         0.3000         48.6721         0.3873         0.0017         0.3936         Open           DMM_PIP_2629A         DMM_JUN_3292         DMM_JUN_3300         415.2813         1,000.0000         0.3000         172.8698         0.2201         0.0181         0.0435         Open           P217         DMM_JUN_3292         DMAV63         421.9033         140.3000         0.1000         16.3308         1.0563         3.5059         8.3096         Open           P219         DMAV63         J30         11.4384         140.3000         0.1000         16.3308         1.0563         0.0951         8.3097         Open           P213         DMM_JUN_3300         DMAV62         1,252.6060         197.3000         0.1000         27.2433         0.8911         4.9405         3.9442         Open           DMM_PIP_3553         DMM_JUN_3300         DMM_VE2         J28         14.4390         197.3000         0.3000         87.9201         0.1119         0.0123         Open </td <td>DMM_PIP_2421 DMM_PIP_3043 TANK71OUTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3055 DMM_PIP_3529 DMM_PIP_3537 DMM_PIP_3533 DMM_PIP_3531 DMM_PIP_3531 DMM_PIP_1143 DMM_PIP_2617 DMM_PIP_3631 DMM_PIP_3633 DMM_PIP_3627 DMM_PIP_3621 DMM_PIP_3641</td> <td>DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_JUN_2978 DMM_VAL_8246 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2392 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3348 DMM_VAL_8248 DMM_JUN_2814 DMM_JUN_3288</td> <td>DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_2822 DMM_JUN_3284 DMM_JUN_2394 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2392 DMM_3406 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3350 DMM_JUN_3350 DMM_JUN_2816</td> <td>(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959 13.3610 31.7794 6.5543 0.7164 19.9899 113.1321 23.1382 333.1554</td> <td>(mm) 1,000.0000 1,000.0000 1,400.0000 1,400.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 1,200.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 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505.3228 444.9731 84.6198 360.2042 84.6198 359.7810 239.4174</td> <td>(m/s) 0.2774 0.2791 1.5391 1.5391 1.8997 1.4922 0.8479 0.8479 0.8479 0.8479 0.6436 0.6436 0.6436 0.6734 0.4586 0.6734 0.4581 0.3048</td> <td>(m) 0.0386 0.0090 0.0310 0.0171 0.0193 0.0368 1.0399 0.0067 0.0105 0.1302 0.0045 0.0045 0.0043 0.0009 0.0028 0.0228 0.0228 0.0228 0.0228 0.0228 0.0228 0.0228</td> <td>(m/k-m) 0.0675 0.0683 1.2468 1.2471 2.2740 2.2740 1.2468 2.2738 1.7621 0.5818 0.5823 3.6084 0.3404 0.3404 0.3404 0.3404 0.3404 0.3404 0.3404 0.3404 0.3405 0.1768 1.1422 0.1764 0.0808</td> <td>Open         Open         Open</td>	DMM_PIP_2421 DMM_PIP_3043 TANK71OUTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3055 DMM_PIP_3529 DMM_PIP_3537 DMM_PIP_3533 DMM_PIP_3531 DMM_PIP_3531 DMM_PIP_1143 DMM_PIP_2617 DMM_PIP_3631 DMM_PIP_3633 DMM_PIP_3627 DMM_PIP_3621 DMM_PIP_3641	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_JUN_2978 DMM_VAL_8246 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2392 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3348 DMM_VAL_8248 DMM_JUN_2814 DMM_JUN_3288	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_2822 DMM_JUN_3284 DMM_JUN_2394 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2392 DMM_3406 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3350 DMM_JUN_3350 DMM_JUN_2816	(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959 13.3610 31.7794 6.5543 0.7164 19.9899 113.1321 23.1382 333.1554	(mm) 1,000.0000 1,000.0000 1,400.0000 1,400.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 1,200.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 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DMM_PIP_2629A         DMAV67         DMM_JUN_3290         10.7088         400.0000         0.3000         48.6721         0.3873         0.0042         0.3930         Open           DMM_PIP_3545         DMM_JUN_3292         DMM_JUN_3300         415.2813         1,000.0000         0.3000         172.8698         0.2201         0.0181         0.0435         Open           P217         DMM_JUN_3292         DMAV63         421.9033         140.3000         0.1000         16.3308         1.0563         3.5059         8.3096         Open           P219         DMAV63         J30         11.4384         140.3000         0.1000         16.3308         1.0563         0.0951         8.3097         Open           P211         DMM_JUN_3300         DMAV62         1,252.6060         197.3000         0.1000         27.2433         0.8911         4.9405         3.9442         Open           P213         DMM_JUN_3300         DMM_JUN_2818         111.3169         1,000.0000         0.3000         87.9201         0.1119         0.0014         0.0123         Open           DMM_PIP_2631         DMM_JUN_3300         DMAV68         4.3771         400.0000         0.3000         57.1908         0.4551         0.0056         0.5360         Ope	DMM_PIP_2421 DMM_PIP_3043 TANK71OUTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3055 DMM_PIP_3537 DMM_PIP_3537 DMM_PIP_3533 DMM_PIP_3531 DMM_PIP_3531 DMM_PIP_1143 DMM_PIP_1443 DMM_PIP_2617 DMM_PIP_3631 DMM_PIP_3631 DMM_PIP_3631 DMM_PIP_3641 DMM_PIP_3541 DMM_PIP_3541 DMM_PIP_2627	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_VAL_8186 DMM_VAL_8246 DMM_VAL_8246 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2392 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3288 DMM_JUN_3288	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_3282 DMM_JUN_3284 DMM_VAL_8246 DMM_JUN_2394 DMM_JUN_2390 DMM_JUN_2392 DMM_JUN_2392 DMM_JUN_2348 DMM_VAL_8248 DMM_JUN_3348 DMM_JUN_32816 DMM_JUN_2816 DMM_JUN_3286	(m) 572.1145 132.4107 24.8994 13.6756 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959 13.3610 31.7794 6.5543 0.7164 19.9899 113.1321 23.1385 333.15543	(mm) 1,000.0000 1,000.0000 1,400.0000 1,400.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 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505.3228 444.9731 84.6198 360.2042 84.6198 369.294174 119.4516	(m/s) 0.2774 0.2791 1.5391 1.5391 1.8997 1.5391 1.8997 1.4922 0.8479 0.8479 0.8479 0.8479 0.6436 0.6436 0.6436 0.6734 0.4468 0.5666 0.6734 0.4581 0.4581 0.3048 0.9506	(m) 0.0386 0.0090 0.0310 0.0171 0.0713 0.0193 0.0368 1.0399 0.0067 0.0105 0.1302 0.0045 0.0045 0.0045 0.0045 0.0045 0.0009 0.0028 0.0228 0.0200 0.0228 0.0208 0.0208 0.0208 0.0208 0.0205 0.0258 0.0121 0.0359	(m/k-m) 0.0675 0.0683 1.2468 1.2471 2.2740 2.2740 1.2468 2.2738 1.7621 0.5818 0.5823 3.6084 0.3404 0.1348 0.3404 0.1348 0.2662 1.1424 0.1768 1.1425 0.1768 1.1425	Open
DMM_PIP_3545         DMM_JUN_3292         DMM_JUN_3300         415.2813         1,000.000         0.3000         172.8698         0.2201         0.0181         0.0435         Open           P217         DMM_JUN_3292         DMAV63         421.9033         140.3000         0.1000         16.3308         1.0563         3.5059         8.3096         Open           P219         DMAV63         J30         11.4384         140.3000         0.1000         16.3308         1.0563         0.0951         8.3097         Open           P211         DMM_JUN_3300         DMAV62         1,252.6060         197.3000         0.1000         27.2433         0.8911         4.9405         3.9442         Open           P213         DMA_V62         J28         14.4390         197.3000         0.1000         27.2433         0.8911         0.0123         Open           DMM_PIP_3553         DMM_JUN_3300         DMM_JUN_2818         111.3169         1,000.0000         0.3000         87.9201         0.1119         0.0014         0.0123         Open           DMM_PIP_2631A         DMM_JUN_3298         10.4896         400.0000         0.3000         57.1908         0.4551         0.0056         0.5360         Open           DMM_PIP_2625	DMM_PIP_2421 DMM_PIP_3043 TANK71OUTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_355 DMM_PIP_3529 DMM_PIP_3535 DMM_PIP_3535 DMM_PIP_3531 DMM_PIP_3531 DMM_PIP_1143 DMM_PIP_1443 DMM_PIP_3631 DMM_PIP_3631 DMM_PIP_3633 DMM_PIP_3641 DMM_PIP_3541 DMM_PIP_2627 DMM_PIP_2623	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_JUN_2978 DMM_VAL_8186 DMM_JUN_2826 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3288 DMM_JUN_3288 DMM_JUN_2816	DMM_JUN_2976 DMM_VAL_8184 DMM_VAL_8184 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_3282 DMM_JUN_3284 DMM_VAL_8246 DMM_JUN_2394 DMM_JUN_2394 DMM_JUN_2392 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_32816 DMM_JUN_32816 DMM_JUN_3282	(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959 13.3610 31.37794 6.5543 0.7164 19.9899 113.1321 23.1385 333.15543 333.15549 149.5690 16.0531 321.1077	(mm) 1,000.0000 1,000.0000 1,400.0000 1,400.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 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505.4500 505.3831 505.3228 444.9731 84.6198 360.2042 84.6198 369.2941 239.4174 119.4516 238.5874	(m/s) 0.2774 0.2791 1.5391 1.5391 1.8997 1.5391 1.8997 1.4922 0.8479 0.8479 1.7225 0.6436 0.6434 0.4469 0.4469 0.4468 0.66734 0.4586 0.6734 0.4586 0.6734 0.4586 0.6734 0.3048 0.3048	(m) 0.0386 0.0090 0.0310 0.0171 0.0713 0.0193 0.0368 1.0399 0.0067 0.1005 0.1302 0.0045 0.0045 0.0043 0.0009 0.0002 0.0228 0.0200 0.0228 0.02064 0.0121 0.0359 0.0258	(m/k-m) 0.0675 0.0683 1.2468 1.2471 2.2740 1.2468 2.2738 1.7621 0.5818 0.5823 3.6084 0.3404 0.1348 0.3404 0.1348 0.1348 0.2662 1.1424 0.1768 1.1425 0.1768 1.1425 0.1768 1.1425 0.0808	Open         Open </td
P217         DMM_JUN_3292         DMAV63         421.9033         140.3000         0.1000         16.3308         1.0563         3.5059         8.3096         Open           P219         DMAV63         J30         11.4384         140.3000         0.1000         16.3308         1.0563         3.5059         8.3096         Open           P219         DMAV63         J30         11.4384         140.3000         0.1000         16.3308         1.0563         0.0951         8.3097         Open           P211         DMM_JUN_3300         DMAV62         1,252.6060         197.3000         0.1000         27.2433         0.8911         4.9405         3.9442         Open           P213         DMAV62         J28         14.4390         197.3000         0.1000         27.2433         0.8911         0.0570         3.9445         Open           DMM_PIP_3553         DMM_JUN_3300         DMM_JUN_2818         111.3169         1,000.0000         0.3000         87.9201         0.1119         0.0014         0.0123         Open           DMM_PIP_2631A         DMM_JUN_3298         10.4896         400.0000         0.3000         57.1908         0.4551         0.0056         0.5360         Open           DMM_PIP_2625	DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_355 DMM_PIP_3529 DMM_PIP_3535 DMM_PIP_3535 DMM_PIP_3531 DMM_PIP_3531 DMM_PIP_1143 DMM_PIP_1443 DMM_PIP_3631 DMM_PIP_3631 DMM_PIP_3633 DMM_PIP_3633 DMM_PIP_3641 DMM_PIP_3541 DMM_PIP_2627 DMM_PIP_2623 DMM_PIP_2629	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_JUN_2978 DMM_VAL_8246 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_2390 DMM_JUN_2392 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3281 DMM_JUN_3288 DMM_JUN_3281 DMM_JUN_2816 DMM_JUN_3292	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_3284 DMM_JUN_3284 DMM_JUN_2394 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2392 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_348 DMM_JUN_3486 DMM_JUN_3286 DMM_JUN_3286 DMM_JUN_3292 DMM_JUN_3292 DMAV67	(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959 13.3610 31.7794 6.5543 0.7164 19.9899 113.1321 23.1385 333.1554 149.5690 16.0531 321.1077 4.3482	(mm) 1,000.0000 1,000.0000 1,400.0000 1,400.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 1,200.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 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P219         DMAV63         J30         11.4384         140.3000         0.1000         16.3308         1.0563         0.0951         8.3097         Open           P211         DMM_JUN_3300         DMAV62         1,252.6060         197.3000         0.1000         27.2433         0.8911         4.9405         3.9442         Open           P213         DMAV62         J28         14.4390         197.3000         0.1000         27.2433         0.8911         0.0570         3.9445         Open           DMM_PIP_3553         DMM_JUN_3300         DMM_JUN_2818         111.3169         1,000.0000         0.3000         87.9201         0.1119         0.0014         0.0123         Open           DMM_PIP_2631         DMM_JUN_3300         DMAV68         4.3771         400.0000         0.3000         57.1908         0.4551         0.0023         0.5355         Open           DMM_PIP_2631A         DMAV68         DMM_JUN_3298         10.4896         400.0000         0.3000         57.1908         0.4551         0.0056         0.5360         Open           DMM_PIP_2635A         DMM_JUN_2818         DMAV61         339.4440         1,000.0000         0.3000         86.3828         0.1100         0.0040         0.0119         Open	DMM_PIP_2421 DMM_PIP_3043 TANK71OUTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3055 DMM_PIP_3535 DMM_PIP_3535 DMM_PIP_3533 DMM_PIP_3531 DMM_PIP_3631 DMM_PIP_14133 DMM_PIP_1621 DMM_PIP_3633 DMM_PIP_3633 DMM_PIP_3641 DMM_PIP_3541 DMM_PIP_2627 DMM_PIP_2629 DMM_PIP_2629 DMM_PIP_2629	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_VAL_8186 DMM_JUN_2978 DMM_VAL_8246 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3284 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3281 DMM_JUN_28114 DMM_JUN_32816 DMM_JUN_3288 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3282	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_3284 DMM_JUN_3284 DMM_JUN_23292 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2348 DMM_VAL_8248 DMM_JUN_3348 DMM_VAL_8248 DMM_JUN_33406 DMM_JUN_32814 DMM_JUN_32816 DMM_JUN_3286 DMM_JUN_3280	(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959 13.3610 31.7794 (5.543 0.7164 19.9899 113.1321 23.1385 333.1554 149.5690 16.0531 321.1077 4.3482 10.7088	(mm) 1,000.0000 1,000.0000 1,400.0000 1,400.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 1,200.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 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P211         DMM_JUN_3300         DMAV62         1,252.6060         197.3000         0.1000         27.2433         0.8911         4.9405         3.9442         Open           P213         DMAV62         J28         14.4390         197.3000         0.1000         27.2433         0.8911         0.0570         3.9442         Open           DMM_PIP_3553         DMM_JUN_3300         DMM_JUN_2818         111.3169         1,000.0000         0.3000         87.9201         0.1119         0.0014         0.0123         Open           DMM_PIP_2631         DMM_JUN_3300         DMAV68         4.3771         400.0000         0.3000         57.1908         0.4551         0.0023         0.5355         Open           DMM_PIP_2631A         DMAV68         DMM_JUN_3298         10.4896         400.0000         0.3000         57.1908         0.4551         0.0056         0.5360         Open           DMM_PIP_2635         DMM_JUN_2818         DMAV61         339.4440         1,000.0000         0.3000         86.3828         0.1100         0.0040         0.0119         Open           DMM_PIP_2625A         DMAV61         DMAV61         339.4440         1,000.0000         0.3000         86.3828         0.1100         0.0022         0.0121         <	DMM_PIP_2421 DMM_PIP_3043 TANK71OUTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3055 DMM_PIP_3557 DMM_PIP_3537 DMM_PIP_3533 DMM_PIP_3531 DMM_PIP_3531 DMM_PIP_1433 DMM_PIP_2617 DMM_PIP_3627 DMM_PIP_3633 DMM_PIP_3623 DMM_PIP_3641 DMM_PIP_3641 DMM_PIP_2627 DMM_PIP_2627 DMM_PIP_2627 DMM_PIP_2623 DMM_PIP_2629 DMM_PIP_2629A DMM_PIP_3545	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_VAL_8186 DMM_JUN_2978 DMM_VAL_8246 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_2390 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3281 DMM_JUN_32816 DMM_JUN_3292 DMAV67 DMM_JUN_3292	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2287 DMM_JUN_3284 DMM_JUN_2394 DMM_JUN_2394 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2392 DMM_3406 DMM_JUN_23288 DMM_JUN_2814 DMM_JUN_2816 DMM_JUN_3286 DMM_JUN_3286 DMM_JUN_3290 DMM_JUN_3290 DMM_JUN_3300	(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604 11.517 18.0664 36.0959 13.3610 31.7794 6.5543 0.7164 19.9899 113.1321 23.1385 333.1554 149.5690 16.0531 321.1077 4.3482 10.7088 415.2813	(mm) 1,000.0000 1,000.0000 1,400.0000 1,400.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 400.0000 1,000.0000 400.0000 1,000.0000 400.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 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P213         DMAV62         J28         14.4390         197.3000         0.1000         27.2433         0.8911         0.0570         3.9445         Open           DMM_PIP_3553         DMM_JUN_3300         DMM_JUN_2818         111.3169         1,000.0000         0.3000         87.9201         0.1119         0.0014         0.0123         Open           DMM_PIP_2631         DMM_JUN_3300         DMAV68         4.3771         400.0000         0.3000         57.1908         0.4551         0.0023         0.5355         Open           DMM_PIP_2631A         DMAV68         DMM_JUN_3298         10.4896         400.0000         0.3000         57.1908         0.4551         0.0056         0.5360         Open           DMM_PIP_2635         DMM_JUN_2818         DMAV61         339.4440         1,000.0000         0.3000         86.3828         0.1100         0.0040         0.0119         Open           DMM_PIP_2625A         DMAV61         DMAU_23212         13.4230         1,000.0000         0.3000         86.3828         0.1100         0.0002         0.0121         Open	DMM_PIP_2421 DMM_PIP_3043 TANK71OUTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3055 DMM_PIP_3537 DMM_PIP_3537 DMM_PIP_3533 DMM_PIP_3533 DMM_PIP_3531 DMM_PIP_3531 DMM_PIP_1433 DMM_PIP_1433 DMM_PIP_1443 DMM_PIP_3633 DMM_PIP_3633 DMM_PIP_3633 DMM_PIP_3641 DMM_PIP_3641 DMM_PIP_3641 DMM_PIP_2627 DMM_PIP_2627 DMM_PIP_2623 DMM_PIP_2623 DMM_PIP_2629A DMM_PIP_2629A DMM_PIP_3545 P217	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_JUN_2978 DMM_VAL_8246 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3281 DMM_JUN_3281 DMM_JUN_2816 DMM_JUN_3292 DMAV67 DMM_JUN_3292	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_2382 DMM_JUN_2384 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_3348 DMM_VAL_8248 DMM_JUN_3348 DMM_JUN_3350 DMM_JUN_32816 DMM_JUN_3286 DMM_JUN_3286 DMM_JUN_3286 DMM_JUN_3290 DMM_JUN_3300 DMM_JUN_3300 DMM_JUN_3300	(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959 13.3610 31.7794 6.5543 0.7164 19.9899 113.1321 23.1385 333.1554 149.5690 16.0531 321.1077 4.3482 10.7088 415.2813 421.9033	(mm) 1,000.0000 1,000.0000 1,400.0000 1,400.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 400.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 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DMM_PIP_3553         DMM_JUN_3300         DMM_JUN_2818         111.3169         1,000.000         0.3000         87.9201         0.1119         0.0014         0.0123         Open           DMM_PIP_2631         DMM_JUN_3300         DMAV68         4.3771         400.0000         0.3000         57.1908         0.4551         0.0023         0.5355         Open           DMM_PIP_2631A         DMAV68         DMM_JUN_3298         10.4896         400.0000         0.3000         57.1908         0.4551         0.0056         0.5360         Open           DMM_PIP_2635         DMM_JUN_2818         DMAV61         339.4440         1,000.0000         0.3000         86.3828         0.1100         0.0040         0.0119         Open           DMM_PIP_2625A         DMAV61         DMM_JUN_2812         13.4230         1,000.0000         0.3000         86.3828         0.1100         0.0002         0.0121         Open	DMM_PIP_2421 DMM_PIP_3043 TANK71OUTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3055 DMM_PIP_3529 DMM_PIP_3537 DMM_PIP_3533 DMM_PIP_3531 DMM_PIP_3531 DMM_PIP_3531 DMM_PIP_3631 DMM_PIP_2617 DMM_PIP_3631 DMM_PIP_3633 DMM_PIP_3627 DMM_PIP_3627 DMM_PIP_3641 DMM_PIP_3541 DMM_PIP_2623 DMM_PIP_2623 DMM_PIP_2629 DMM_PIP_2629 DMM_PIP_2629 DMM_PIP_3645 P217 P219	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_JUN_2980 DMM_JUN_2280 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3281 DMM_JUN_32814 DMM_JUN_3288 DMM_JUN_32816 DMM_JUN_3292 DMAV67 DMM_JUN_3292 DMAV63	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_2822 DMM_JUN_3284 DMM_JUN_2394 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3350 DMM_JUN_3286 DMM_JUN_3286 DMM_JUN_3290 DMM_JUN_3290 DMM_JUN_3300 DMM_JUN_3300	(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959 13.3610 31.7794 6.5543 0.7164 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DMM_PIP_2631         DMM_JUN_3300         DMAV68         4.3771         400.000         0.3000         57.1908         0.4551         0.0023         0.5355         Open           DMM_PIP_2631A         DMAV68         DMM_JUN_3298         10.4896         400.0000         0.3000         57.1908         0.4551         0.0023         0.5355         Open           DMM_PIP_2635A         DMM_JUN_2818         DMAV61         339.4440         1,000.0000         0.3000         86.3828         0.1100         0.0040         0.0119         Open           DMM_PIP_2625A         DMAV61         DMM_JUN_2812         13.4230         1,000.0000         0.3000         86.3828         0.1100         0.0002         0.0121         Open	DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3055 DMM_PIP_3529 DMM_PIP_3537 DMM_PIP_3533 DMM_PIP_3531 DMM_PIP_3531 DMM_PIP_3531 DMM_PIP_3631 DMM_PIP_2617 DMM_PIP_3631 DMM_PIP_3633 DMM_PIP_3627 DMM_PIP_3621 DMM_PIP_3541 DMM_PIP_2622 DMM_PIP_2623 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DMM_PIP_2631A         DMAV68         DMM_JUN_3298         10.4896         400.0000         0.3000         57.1908         0.4551         0.0056         0.5360         Open           DMM_PIP_2625         DMM_JUN_2818         DMAV61         339.4440         1,000.0000         0.3000         86.3828         0.1100         0.0040         0.0119         Open           DMM_PIP_2625A         DMAV61         DMM_JUN_2812         13.4230         1,000.0000         0.3000         86.3828         0.1100         0.0002         0.0112         Open	DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3055 DMM_PIP_3537 DMM_PIP_3537 DMM_PIP_3533 DMM_PIP_3531 DMM_PIP_3531 DMM_PIP_3531 DMM_PIP_3631 DMM_PIP_2617 DMM_PIP_2627 DMM_PIP_3641 DMM_PIP_3541 DMM_PIP_2622 DMM_PIP_2623 DMM_PIP_2623 DMM_PIP_2623 DMM_PIP_2623 DMM_PIP_2623 DMM_PIP_2629A DMM_PIP_2629A DMM_PIP_2629A DMM_PIP_2629A DMM_PIP_2629A DMM_PIP_3545 P217 P219 P211 P213	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS 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DMM_PIP_2625         DMM_JUN_2818         DMAV61         339.4440         1,000.0000         0.3000         86.3828         0.1100         0.0040         0.0119         Open           DMM_PIP_2625A         DMAV61         DMM_JUN_2812         13.4230         1,000.0000         0.3000         86.3828         0.1100         0.0002         0.0121         Open	DMM_PIP_2421 DMM_PIP_3043 TANK71OUTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3055 DMM_PIP_3535 DMM_PIP_3533 DMM_PIP_3533 DMM_PIP_3531 DMM_PIP_3531 DMM_PIP_3631 DMM_PIP_3631 DMM_PIP_3633 DMM_PIP_3633 DMM_PIP_3627 DMM_PIP_3641 DMM_PIP_2621 DMM_PIP_2623 DMM_PIP_2623 DMM_PIP_2623 DMM_PIP_2629 DMM_PIP_2629 DMM_PIP_2629 DMM_PIP_2629 DMM_PIP_3545 P217 P219 P211 P213 DMM_PIP_3553	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_JUN_2980 DMM_VAL_8186 DMM_JUN_23282 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3284 DMM_JUN_3284 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3281 DMM_JUN_3281 DMM_JUN_3288 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DMM_PIP_2625A         DMAV61         DMM_JUN_2812         13.4230         1,000.0000         0.3000         86.3828         0.1100         0.0002         0.0121         Open	DMM_PIP_2421 DMM_PIP_3043 TANK71OUTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3055 DMM_PIP_3555 DMM_PIP_3537 DMM_PIP_3533 DMM_PIP_3533 DMM_PIP_3531 DMM_PIP_3531 DMM_PIP_3631 DMM_PIP_3633 DMM_PIP_3627 DMM_PIP_3633 DMM_PIP_3641 DMM_PIP_3541 DMM_PIP_2629 DMM_PIP_2629 DMM_PIP_2629 DMM_PIP_3545 P217 P219 P211 P213 DMM_PIP_3553 DMM_PIP_2631	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_VAL_8186 DMM_JUN_2978 DMM_VAL_8246 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_2390 DMM_JUN_2392 DMM_JUN_2348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3284 DMM_JUN_32816 DMM_JUN_32816 DMM_JUN_3282 DMM_JUN_3292 DMAV67 DMM_JUN_3292 DMAV63 DMM_JUN_3300 DMAV62 DMM_JUN_3300 DMM_JUN_3300	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_3284 DMM_JUN_3284 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0.0023	(m/k-m) 0.0675 0.0683 1.2468 1.2471 2.2740 1.2468 2.2738 1.7621 0.5818 0.5823 3.6084 0.3404 0.1348 0.1348 0.2662 1.1424 0.1768 1.1425 0.1764 0.2662 1.4225 0.803 0.3936 0.3930 0.4355 8.3097 3.9445 0.123 0.5355	Open           Open
	DMM_PIP_2421 DMM_PIP_3043 TANK71OUTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3055 DMM_PIP_3537 DMM_PIP_3537 DMM_PIP_3533 DMM_PIP_3531 DMM_PIP_3531 DMM_PIP_3531 DMM_PIP_3631 DMM_PIP_3627 DMM_PIP_3633 DMM_PIP_3633 DMM_PIP_3641 DMM_PIP_3641 DMM_PIP_2627 DMM_PIP_2627 DMM_PIP_2627 DMM_PIP_2629 DMM_PIP_2629 DMM_PIP_2629 DMM_PIP_3545 P217 P219 P211 P213 DMM_PIP_2631 DMM_PIP_2631 DMM_PIP_2631	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_VAL_8186 DMM_JUN_2978 DMM_VAL_8246 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3281 DMM_JUN_32816 DMM_JUN_32816 DMM_JUN_32816 DMM_JUN_3282 DMAV67 DMM_JUN_3292 DMAV67 DMM_JUN_3292 DMAV63 DMM_JUN_3300 DMAV62 DMM_JUN_3300 DMAV68	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2282 DMM_JUN_3284 DMM_JUN_3284 DMM_JUN_2394 DMM_JUN_2394 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2328 DMM_JUN_23288 DMM_JUN_2816 DMM_JUN_3286 DMM_JUN_3286 DMM_JUN_3286 DMM_JUN_3290 DMM_JUN_3290 DMM_JUN_3300 DMAV67 DMM_JUN_3300 DMAV63 J30 DMAV63 J30 DMAV68 DMM_JUN_2818 DMM_JUN_2818	(m) 572.1145 132.4107 24.8994 13.6756 31.3356 590.1604 11.5177 18.0664 36.0959 13.3610 31.7794 6.5543 0.7164 19.9899 113.1321 23.1385 333.1554 149.5690 16.0531 321.1077 4.3482 10.7088 415.2813 421.9033 11.4384 1.252.6060 14.4390 4.3771 10.4896	(mm) 1,000.0000 1,000.0000 1,400.0000 1,400.0000 1,200.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 400.0000 1,000.0000 400.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 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0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) -217.8694 219.1789 2,369.2962 2,369.2962 2,148.5389 1,171.9829 665.9427 665.9427 665.9427 665.9449 505.4500 505.3831 505.3228 444.9731 84.6198 360.2042 84.6198 359.7810 239.4174 119.4516 238.5874 48.6721 172.8698 16.3308 27.2433 27.2433 27.2433 27.2433	(m/s) 0.2774 0.2791 1.5391 1.5391 1.8997 1.4922 0.8479 0.8479 0.8479 0.8479 0.8479 0.8479 0.8479 0.8479 0.8479 0.8479 0.8479 0.8479 0.4468 0.5666 0.6734 0.4566 0.6734 0.4566 0.6734 0.4586 0.4586 0.6734 0.4586 0.3048 0.3048 0.3073 0.3873 0.3873 0.3873 0.3873 0.3873 0.3873 0.3873 0.3873 0.2201 1.0563 1.0563 0.3871 0.3911 1.0563 1.0551 0.4551	(m) 0.0386 0.0090 0.0310 0.0171 0.0193 0.0368 1.0399 0.0067 0.0105 0.1302 0.0045 0.0043 0.0045 0.0043 0.0009 0.0228 0.0200 0.0228 0.0200 0.0264 0.0588 0.0121 0.0359 0.0258 0.0017 0.0042 0.0181 3.5059 0.0951 4.9405 0.00570 0.0014 0.0023 0.0056	(m/k-m) 0.0675 0.0683 1.2468 1.2471 1.24740 1.24740 1.24740 1.24740 1.24740 1.24740 0.5818 0.5823 3.6084 0.3404 0.3404 0.3404 0.3404 0.3404 0.3404 0.3404 0.3408 1.1425 0.1764 0.0808 2.2352 0.0803 0.3930 0.0435 8.3096 8.3097 3.9442 3.9445 0.0123 0.5355 0.5360	Open           Open
	DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3055 DMM_PIP_3537 DMM_PIP_3537 DMM_PIP_3533 DMM_PIP_3533 DMM_PIP_3531 DMM_PIP_3531 DMM_PIP_3631 DMM_PIP_3633 DMM_PIP_3633 DMM_PIP_3633 DMM_PIP_3633 DMM_PIP_3641 DMM_PIP_3641 DMM_PIP_2627 DMM_PIP_2623 DMM_PIP_2629 DMM_PIP_2629 DMM_PIP_2629 DMM_PIP_3545 P217 P219 P211 P213 DMM_PIP_2631 DMM_PIP_2631 DMM_PIP_2625	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_JUN_2978 DMM_VAL_8246 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3284 DMM_JUN_3288 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3288 DMM_JUN_3288 DMM_JUN_32816 DMM_JUN_32816 DMM_JUN_3292 DMAV67 DMM_JUN_3292 DMAV63 DMM_JUN_3300 DMAV68 DMM_JUN_3300 DMAV68 DMM_JUN_32818	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_2328 DMM_JUN_2324 DMM_JUN_2394 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2328 DMM_JUN_3348 DMM_JUN_3350 DMM_JUN_3286 DMM_JUN_3286 DMM_JUN_3286 DMM_JUN_3292 DMAV67 DMM_JUN_3300 DMAV63 J30 DMAV63 J30 DMAV68 DMM_JUN_32818 DMM_JUN_3298 DMM_JUN_3298	(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959 13.3610 31.7794 6.5543 0.7164 19.9899 113.1321 23.1385 333.1554 149.5690 16.0531 321.1077 4.3482 10.7088 415.2813 421.9033 11.4384 1.252.6060 14.4390 111.3169 339.4440	(mm) 1,000.0000 1,000.0000 1,400.0000 1,400.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 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0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) -217.8694 219.1789 2,369.2962 2,148.5389 2,369.2962 2,148.5389 1,171.9829 665.9427 665.9427 665.9427 665.9427 665.9427 665.9427 665.9427 665.9427 665.9427 84.6198 360.2042 84.6198 350.7810 239.4174 119.4516 238.5874 48.6721 172.8698 16.3308 27.2433 27.2433 27.2433 27.2433 87.9201 57.1908 57.1908 86.3828	(m/s) 0.2774 0.2791 1.5391 1.5391 1.8997 1.4922 0.8479 0.8479 0.8479 0.8479 0.8479 0.8479 0.8479 0.8479 0.8479 0.8479 0.8479 0.8479 0.8479 0.4468 0.6734 0.4586 0.6734 0.4586 0.6734 0.4586 0.6734 0.4581 0.3048 0.3038 0.3873 0.3873 0.3873 0.2201 1.0563 1.0563 0.38911 0.2551 0.4551 0.4551 0.4100	(m) 0.0386 0.0090 0.0310 0.0171 0.0193 0.0368 1.0399 0.0067 0.0105 0.0105 0.0105 0.0045 0.0043 0.0045 0.0002 0.0228 0.0200 0.0264 0.0288 0.0121 0.0359 0.0258 0.0017 0.0042 0.0181 3.5059 0.0951 4.9405 0.0570 0.0014 0.0023 0.0056 0.0040	(m/k-m) 0.0675 0.0683 1.2468 1.2471 1.2468 2.2740 1.2468 2.2738 1.7621 0.5818 0.5823 3.6084 0.3404 0.1348 0.3404 0.1348 0.3404 0.1348 0.3404 0.1348 0.2662 1.1425 0.1764 0.0808 2.2352 0.0803 0.3936 0.3936 0.3936 0.3936 0.3936 0.3936 0.3936 0.3936 0.3936 0.3936 0.3936 0.3936 0.3936 0.3936 0.3936 0.3936 0.39345 0.0123 0.5355 0.5360 0.0119	Open         Open <t< td=""></t<>





ID	From Node	To Node	Length		Roughness		Velocity	Headloss	HL/1000	Status
			(m)	(mm)	(mm)	(L/s)	(m/s)	(m)	(m/k-m)	-
DMM_PIP_2635	DMM_JUN_2812	DMM_JUN_3296	13.7738	400.0000	0.3000	44.6326	0.3552	0.0046	0.3333	Open
DMM_PIP_3647	DMM_JUN_3360	DMM_JUN_3354	602.0642	400.0000	0.3000	59.0416	0.4698	0.3431	0.5699	Open
DMM_PIP_3645	DMM_JUN_3360	DMM_JUN_3358	8.7225	400.0000	0.3000	47.2574	0.3761	0.0032	0.3716	Open
DMM_PIP_3643A	DMAV86	DMM_JUN_3360	3.6893	400.0000	0.3000	106.3066	0.8460	0.0066	1.7806	Open
DMM_PIP_3643	DMM_JUN_3356	DMAV86	2.2199	400.0000	0.3000	106.3066	0.8460	0.0040	1.7798	Open
P265	DMM_JUN_2806	DMAV78	52.3986	140.3000	0.1000	17.8476	1.1545	0.5160	9.8478	Open
P267	DMAV78	DMM_2856	49.1738	140.3000	0.1000	17.8476	1.1545	0.4843	9.8478	Open
DMM_PIP_2601	DMM_JUN_3380	DMM_JUN_3382	13.9159	400.0000	0.3000	129.5921	1.0313	0.0365	2.6209	Open
DMM_PIP_2611	DMM_JUN_2294	DMM_JUN_3302	20.9171	400.0000	0.3000	43.7891	0.3485	0.0067	0.3215	Open
DMM_PIP_2609	DMM_JUN_2810	DMM_JUN_3352	10.6103	400.0000	0.3000	181.3979	1.4435	0.0538	5.0681	Open
DMM_PIP_3305	DMM_JUN_3138	DMM_846	1,898.6678	1,000.0000	0.3000	342.2753	0.4358	0.3043	0.1603	Open
DMM_PIP_2785	DMM_JUN_3138	DMAV182	51.7184	400.0000	0.3000	51.4996	0.4098	0.0227	0.4383	Open
DMM_PIP_2441	DMM_JUN_2744	DMM_JUN_3138	1,181.4428	1,000.0000	0.3000	393.9053	0.5015	0.2482	0.2101	Open
P523	DMAV182	DMM JUN 3384	55.2520	400.0000	0.3000	51.4996	0.4098	0.0242	0.4383	Open
DMM_PIP_3309	DMM_JUN_3142	DMM_JUN_2746	749.4691	1,000.0000	0.3000	-666.9663	0.8492	0.4376	0.5839	Open
DMM PIP 2443	DMM JUN 3142	DMM JUN 3386	32.7767	400.0000	0.3000	272.0247	2.1647	0.3692	11.2626	Open
DMM PIP 2437	DMM JUN 2744	DMM JUN 3142	15.1349	1,000.0000	0.3000	-394.4454	0.5022	0.0032	0.2105	Open
DMM_PIP_2439	DMM JUN 2746	DMM JUN 3148	1,902.8049	1,000.0000	0.3000	-667.7091	0.8502	1.1134	0.5851	Open
DMM PIP 3317	DMM JUN 3148	DMM JUN 3146	65.6665	400.0000	0.3000	209.5586	1.6676	0.4421	6.7323	Open
DMM PIP 3315	DMM JUN 3148	DMM JUN 2762	1,588.9784			-879.4817	1.1198	1.5933	1.0027	Open
DMM PIP 2501	DMM JUN 2762	DMM JUN 3388	122.5552	400.0000	0.3000	92.1316	0.7332	0.1651	1.3475	Open
DMM_PIP_2497	DMM JUN 2762	DMM JUN 2764		1,000.0000		1.018.2615	1.2965	0.8771	1.3366	Open
P359	DMM JUN 2762	DMAV113	22.7184	197.3000	0.1000	46.3004	1.5144	0.2476	10.8969	Open
P361	DMAV113	DMM_2002	63.9446	197.3000	0.1000	46.3004	1.5144	0.6968	10.8968	Open
DMM_PIP_2511	DMM JUN 2764	DMM JUN 3150	25.7386	400.0000	0.3000	260.8733	2.0760	0.2669	10.3691	Open
DMM_PIP_2499	DMM JUN 2764	DMM JUN 2766		1,000.0000		1,279.2200	1.6288	0.2911	2.0936	Open
DMM PIP 2505	DMM_JUN_2766	DMM_JUN_2768		1,000.0000		1.280.4163	1.6303	1.9125	2.0974	Open
DMM PIP 3323	DMM JUN 2768	DMM JUN 3152	14.3290	400.0000	0.3000	243.6438	1.9389	0.1298	9.0613	Open
DMM_PIP_2507	DMM JUN 2768	DMM JUN 2982	1,369.2132			-1,524.1870	1.9407	4.0493	2.9574	Open
DMM_PIP_2007 DMM_PIP_3071	DMM_VAL 8194	DMM JUN 2982	7.3654	1,000.0000		1,524.3204	1.9408	0.0218	2.9584	Open
DMM_PIP_3061	DMM JUN 2986	DMM VAL 8194	15.5373	1,000.0000		1,524.3204	1.9408	0.0460	2.9580	Open
CT OUTLET	DMM_VAL_8192	DMM_JUN_2986	9.2608	1,600.0000		4,365.8940	2.1714	0.0194	2.0927	Open
-	ENTRAL_TANK_P		11.2199	1,600.0000		4,365.8940	2.1714	0.0235	2.0933	Open
DMM_PIP_3067 P821	J58	CENTRAL TANK PS		1,600.0000		4,365.8940	2.1714	0.0235	2.0933	Open
		CV CENTRAL TAN		1,600.0000		1,999.9859	0.9947	0.0033	0.4506	
P-33	DIVIN_3014_2946	UV_CENTRAL_TAN	47.3153	1,000.0000	0.3000	1,999.9659	0.9947	0.0213	0.4000	Open
			Length	Diameter	Roughness	Flow	Velocity	Headloss	HL/1000	<b>a</b>
ID	From Node	To Node	(m)	(mm)	(mm)	(L/s)	(m/s)	(m)	(m/k-m)	Status
P-34	CV_CENTRAL_TAN	J56	12.3051	1,600.0000	0.3000	1,999.9859	0.9947	0.0055	0.4507	Open
DMM DID 2077			206 6040	4 000 0000	0.2000	1 000 0957	0.0047	0 1227	0.4507	0.000

DMM_PIP_2977         DMM_JUN_2944         DMM_JUN_2948         296.6949         1,600.0000         0.3000         1,999.9857         0.9947         0.1337         0.4507         O           DMM_PIP_2975         DMM_JUN_2942         DMM_JUN_2944         2,163.0970         1,600.0000         0.3000         1,999.9857         0.9947         0.1337         0.4507         O           DMM_PIP_2973         DMM_JUN_2942         DMM_JUN_2940         983.4080         1,600.0000         0.3000         1,999.9857         0.9947         0.4432         0.4507         O           DMM_PIP_2971         DMM_JUN_2938         DMM_JUN_2940         419.0785         1,600.0000         0.3000         1,999.9857         0.9947         0.4432         0.4507         O           DMM_PIP_2969         DMM_JUN_2938         DMM_JUN_2940         419.0785         1,600.0000         0.3000         1,999.9857         0.9947         0.4432         0.4507         O           DMM_PIP_2969         DMM_JUN_2936         DMM_JUN_2938         760.6230         1,600.0000         0.3000         1,999.9857         0.9947         0.3428         0.4507         O           DMM_PIP_2967         DMM_JUN_2934         DMM_SUN_2934         1,600.0000         0.3000         1,999.9857         0.9947	en en en en en en en
DMM_PIP_2975         DMM_JUN_2942         DMM_JUN_2944         2,163.0970         1,600.0000         0.3000         1,999.9857         0.9947         0.9749         0.4507         O           DMM_PIP_2973         DMM_JUN_2942         DMM_JUN_2940         983.4080         1,600.0000         0.3000         1,999.9857         0.9947         0.4432         0.4507         O           DMM_PIP_2971         DMM_JUN_2938         DMM_JUN_2940         419.0785         1,600.0000         0.3000         1,999.9857         0.9947         0.4432         0.4507         O           DMM_PIP_2969         DMM_JUN_2938         DMM_JUN_2940         419.0785         1,600.0000         0.3000         1,999.9857         0.9947         0.4432         0.4507         O           DMM_PIP_2969         DMM_JUN_2936         DMM_JUN_2938         760.6230         1,600.0000         0.3000         1,999.9857         0.9947         0.3428         0.4507         O           DMM_PIP_2967         DMM_JUN_2934         DMM_JUN_2936         962.3452         1,600.0000         0.3000         1,999.9857         0.9947         0.4337         0.4507         O           DMM_PIP_2965         DMM_JUN_2932         DMM_JUN_2934         1,726.5588         1,600.0000         0.3000         1,999.9857	en en en en en en en
DMM_PIP_2973         DMM_JUN_2942         DMM_JUN_2940         983.4080         1,600.0000         0.3000         1,999.9857         0.9947         0.4432         0.4507         O           DMM_PIP_2971         DMM_JUN_2938         DMM_JUN_2940         419.0785         1,600.0000         0.3000         1,999.9857         0.9947         0.4432         0.4507         O           DMM_PIP_2969         DMM_JUN_2938         DMM_JUN_2938         760.6230         1,600.0000         0.3000         1,999.9857         0.9947         0.3428         0.4507         O           DMM_PIP_2967         DMM_JUN_2936         DMM_JUN_2938         760.6230         1,600.0000         0.3000         1,999.9857         0.9947         0.3428         0.4507         O           DMM_PIP_2967         DMM_JUN_2934         DMM_JUN_2936         962.3452         1,600.0000         0.3000         1,999.9857         0.9947         0.3428         0.4507         O           DMM_PIP_2965         DMM_JUN_2932         DMM_JUN_2934         1,726.5588         1,600.0000         0.3000         1,999.9857         0.9947         0.7781         0.4507         O	en en en en en en
DMM_PIP_2971         DMM_JUN_2938         DMM_JUN_2940         419.0785         1,600.000         0.3000         1,999.9857         0.9947         0.1889         0.4507         O           DMM_PIP_2969         DMM_JUN_2936         DMM_JUN_2938         760.6230         1,600.0000         0.3000         1,999.9857         0.9947         0.3428         0.4507         O           DMM_PIP_2967         DMM_JUN_2934         DMM_JUN_2936         962.3452         1,600.0000         0.3000         1,999.9857         0.9947         0.3428         0.4507         O           DMM_PIP_2965         DMM_JUN_2934         DMM_2034         962.3452         1,600.0000         0.3000         1,999.9857         0.9947         0.4337         0.4507         O           DMM_PIP_2965         DMM_JUN_2932         DMM_JUN_2934         1,726.5588         1,600.0000         0.3000         1,999.9857         0.9947         0.7781         0.4507         O <td>en en en en en</td>	en en en en en
DMM_PIP_2969         DMM_JUN_2936         DMM_JUN_2938         760.6230         1,600.0000         0.3000         1,999.9857         0.9947         0.3428         0.4507         O           DMM_PIP_2967         DMM_JUN_2934         DMM_JUN_2936         962.3452         1,600.0000         0.3000         1,999.9857         0.9947         0.3428         0.4507         O           DMM_PIP_2965         DMM_JUN_2934         DMM_JUN_2936         962.3452         1,600.0000         0.3000         1,999.9857         0.9947         0.4337         0.4507         O           DMM_PIP_2965         DMM_JUN_2932         DMM_JUN_2934         1,726.5588         1,600.0000         0.3000         1,999.9857         0.9947         0.7781         0.4507         O	en en en en
DMM_PIP_2967         DMM_JUN_2934         DMM_JUN_2936         962.3452         1,600.0000         0.3000         1,999.9857         0.9947         0.4337         0.4507         O           DMM_PIP_2965         DMM_JUN_2932         DMM_JUN_2934         1,726.5588         1,600.0000         0.3000         1,999.9857         0.9947         0.7781         0.4507         O	en en en
DMM_PIP_2965         DMM_JUN_2932         DMM_JUN_2934         1,726.5588         1,600.0000         0.3000         1,999.9857         0.9947         0.7781         0.4507         O	en en
	en
DMM PIP 2963 DMM JUN 2930 DMM JUN 2932 3 079 9867 1 600 0000 0 3000 1 999 9857 0 9947 1 3881 0 4507 0	
DMM_PIP_2961 DMM_JUN_3280 DMM_JUN_2930 328.4499 1,600.0000 0.3000 1,999.9857 0.9947 0.1480 0.4507 O	en
DMM_PIP_3527 DMM_JUN_3280 DMM_JUN_2926 95.3555 1,600.0000 0.3000 4,199.9700 2.0889 0.1849 1.9390 O	en
DMM_PIP_1271 DMM_JUN_2428 DMM_JUN_3280 34.8838 1,400.0000 0.3000 2,199.9845 1.4291 0.0376 1.0775 O	en
DMM_PIP_1193 DMM_VAL_8024 DMM_JUN_2428 13.6552 1,400.0000 0.3000 -2,199.9845 1.4291 0.0147 1.0776 O	en
DMM_5089 DMM_19836 DMM_VAL_8024 13.3400 1,400.0000 0.3000 -2,199.9845 1.4291 0.0144 1.0773 O	en
P-35 DMM_19836 FCV_TANK55 6.9463 1,600.0000 0.3000 2,199.9845 1.0942 0.0038 0.5437 O	en
P-36 FCV_TANK55 J62 7.8302 1,600.0000 0.3000 2,199.9845 1.0942 0.0043 0.5435 O	en
DMM_PIP_3517 DMM_JUN_3276 MEW_TANK_55_PS 71.6074 1,400.0000 0.3000 2,342.2877 1.5216 0.0873 1.2190 O	en
DMM_PIP_2659 MEW_TANK_55_PS DMM_JUN_3278 21.5346 1,400.0000 0.3000 2,342.2877 1.5216 0.0263 1.2189 0	en
DMM_PIP_3521 DMM_JUN_3278 DMM_1160 63.0371 1,400.0000 0.3000 2,261.4840 1.4691 0.0717 1.1377 O	en
P23 DMM_JUN_3174 DMM_1160 4.4425 1,000.0000 0.3000 0.0000 0.0000 0.0000 0.0000 CM	sed
DMM_PIP_2571(2) DMM_JUN_2794 21665-B 1,558.0150 1,000.0000 0.3000 -513.7563 0.6541 0.5474 0.3513 O	en
DMM_VAL_8038_U DMM_1160 DMM_VAL_8038 3.0752 1,000.0000 0.3000 513.7563 0.6541 0.0011 0.3509 O	en
DMM_VAL_8038_D DMM_VAL_8038 21665-B 3.4913 1,000.0000 0.3000 513.7563 0.6541 0.0012 0.3517 O	en
DMM_PIP_2249 DMM_JUN_2678 DMM_JUN_2794 674.3797 1,000.0000 0.3000 -492.6349 0.6272 0.2184 0.3239 O	en
DMM_PIP_2573 DMM_JUN_2794 DMM_JUN_2796 746.3929 400.0000 0.3000 7.1331 0.0568 0.0083 0.0111 O	en
DMM_PIP_2577(1) DMM_JUN_2796 PRV-8 178.8718 400.0000 0.3000 7.0756 0.0563 0.0020 0.0109 O	en
DMM_PIP_2577(2) PRV-8 DMM_JUN_3176 40.6283 400.0000 0.3000 7.0756 0.0563 0.0004 0.0109 O	en
DMM_PIP_2255(1) DMM_JUN_2678 PRV-7 56.1034 400.0000 0.3000 32.7537 0.2606 0.0104 0.1850 O	en
DMM_PIP_2255(2) PRV-7 DMM_JUN_3418 18.6748 400.0000 0.3000 32.7537 0.2606 0.0035 0.1850 O	en
DMM_PIP_2251 DMM_JUN_2680 DMM_JUN_2678 1,207.9848 1,000.0000 0.3000 -459.8577 0.5855 0.3423 0.2834 O	en
DMM_PIP_2567 DMM_JUN_2790 DMM_JUN_2680 257.8840 1,000.0000 0.3000 -459.7952 0.5854 0.0731 0.2833 O	en
DMM_PIP_2253 DMM_JUN_2680 DMM_6709 43.9786 400.0000 0.3000 0.0000 0.0000 0.0000 CM	sed
DMM_PIP_2569 DMM_JUN_2790 DMM_JUN_3182 28.9899 400.0000 0.3000 0.0000 0.0000 0.0000 Ci	sed
DMM_PIP_3249(1) DMM_JUN_2790 J-23 1,069.3960 1,000.0000 0.3000 458.1062 0.5833 0.3008 0.2813 O	en
DMM_PIP_2597 DMM_JUN_2788 DMM_JUN_3186 1,416.0236 1,000.0000 0.3000 420.8044 0.5358 0.3380 0.2387 O	en





ID	From Node	To Node	Length	Diameter	Roughness		Velocity	Headloss	HL/1000	Status
			(m)	(mm)	(mm)	(L/s)	(m/s)	(m)	(m/k-m)	
DMM_PIP_2565	DMM_JUN_2788	DMAV111	35.9430	400.0000	0.3000	36.9388	0.2940	0.0084	0.2325	Open
P-43	J-23	PRV-5	11.6063	1,000.0000		458.1062	0.5833	0.0033	0.2813	Open
P-44	PRV-5	DMM_JUN_2788	11.6103	1,000.0000	0.3000	458.1062	0.5833	0.0033	0.2812	Open
DMM_PIP_2565A	DMAV111	DMM_6915	217.6934	400.0000	0.3000	36.9388	0.2940	0.0506	0.2324	Open
DMM_PIP_3359	DMM_JUN_3186	DMAV108	2,085.5044	400.0000	0.3000	20.2673	0.1613	0.1566	0.0751	Open
DMM_PIP_2259	DMM_JUN_2684	DMM_JUN_3186	1,204.0585	1,000.0000	0.3000	-400.2872	0.5097	0.2609	0.2167	Open
DMM_PIP_2263	DMM_JUN_2684	DMAV109	17.7265	400.0000	0.3000	37.8686	0.3014	0.0043	0.2437	Open
DMM_PIP_2257	DMM_JUN_2682	DMM_JUN_2684	619.1663	1,000.0000	0.3000	-362.2781	0.4613	0.1107	0.1788	Open
DMM_PIP_2263A	DMAV109	DMM_JUN_3188	53.9229	400.0000	0.3000	37.8686	0.3014	0.0131	0.2437	Open
DMM_PIP_2261	DMM_JUN_2682	DMAV110	13.2038	400.0000	0.3000	21.6322	0.1721	0.0011	0.0845	Open
DMM PIP 2265	DMM_JUN_2682	DMM_JUN_3190	909.0325	1,000.0000	0.3000	340.4061	0.4334	0.1441	0.1586	Open
DMM PIP 2261A	DMAV110	DMM 5853	267.3479	400.0000	0.3000	21.6322	0.1721	0.0227	0.0848	Open
DMM_12544	DMM_JUN_1186	DMM 5853	229.3976	197.3000	0.3000	-7.5493	0.2469	0.0930	0.4052	Open
DMM PIP 2267	DMM JUN 3192	DMAV107	26.6324	400.0000	0.3000	39.5202	0.3145	0.0070	0.2644	Open
DMM PIP 2267A	DMAV107	DMM JUN 3194	91.9454	400.0000	0.3000	39.5202	0.3145	0.0243	0.2643	Open
DMM PIP 2591	DMM JUN 2802	DMAV106	36.8191	400.0000	0.3000	25.2121	0.2006	0.0042	0.1131	Open
DMM PIP 2591A	DMAV106	DMM 5301	105.8917	400.0000	0.3000	25.2121	0.2006	0.0120	0.1130	Open
25452	197	DMAV102	9.1541	400.0000	0.3000	19.4561	0.1548	0.0006	0.0696	Open
25452A	DMAV102	10789	20.7717	400.0000	0.3000	19.4561	0.1548	0.0014	0.0694	Open
25458	10800	5447	7.3498	400.0000	0.3000	3.9933	0.0318	0.0000	0.0038	Open
25450	196	DMAV103	2.4820	400.0000	0.3000	7.6337	0.0607	0.0000	0.0131	Open
25450A	DMAV103	10795	5.7802	400.0000	0.3000	7.6337	0.0607	0.0001	0.0129	Open
DMM PIP 3359A	DMAV108	DMM JUN 3184	102.6905	400.0000	0.3000	20.2673	0.1613	0.0077	0.0751	Open
DMM_PIP_2821	DMM_3337	DMAV179	4.7012	400.0000	0.3000	158.5974	1.2621	0.0183	3.8929	Open
P517	DMAV179	DMM JUN 3320	9.3109	400.0000	0.3000	158.5974	1.2621	0.0362	3.8927	Open
DMM_PIP_3073	DMM_VAL_8196	DMM_JUN_2984	13.4179	1,000.0000		1,031.8949	1.3139	0.0184	1.3719	Open
DMM_PIP_2203	DMM JUN 2986	DMM VAL 8196	8.9744	1,000.0000		1.031.8949	1.3139	0.0123	1.3723	Open
DMM_PIP_3063	DMM JUN 2984	DMM JUN 2776		1,000.0000		1,031.4400	1.3133	1.1711	1.3708	Open
DMM_PIP_2535	DMM_JUN_2776	DMM JUN 2778	499.8027	1,000.0000		1,028.9808	1.3101	0.6819	1.3644	Open
DMM_PIP_2541	DMM JUN 2778	DMM JUN 3158	15.9318	400.0000	0.3000	222.3164	1.7691	0.1205	7.5638	Open
DMM_PIP_2537	DMM JUN 2778	DMM JUN 2884	46.5671	1.000.0000		805.5637	1.0257	0.0393	0.8443	Open
DMM_PIP_2337	DMM JUN 2884	DMM JUN 2780		1,000.0000		802.2566	1.0215	1.3250	0.8376	Open
	DMM JUN 2780	DMM JUN 3160	17.7056	400.0000	0.3000	150.2681	1.1958	0.0620	3.5023	Open
DMM_PIP_2545 DMM_PIP_2543	DMM_JUN_2780	DMM_JUN_2782		1,000.0000		651.9377	0.8301	0.4502	0.5585	Open
	DMAV133	DMM_3017_2782	37.9889	197.3000	0.1000	0.0000	0.0000	0.0000	0.0000	Open
P409	DIVIAV133	DIVINI_17921	37.9009	197.3000	0.1000	0.0000	0.0000	0.0000	0.0000	Open
ID	From Node	To Node	Length (m)	Diameter (mm)	Roughness (mm)	Flow (L/s)	Velocity (m/s)	Headloss (m)	HL/1000 (m/k-m)	Status
P407	DMM_1813	DMAV133	30.8326	197.3000	0.1000	0.0000	0.0000	0.0000	0.0000	Open
DMM PIP 2549	DMM JUN 2782	DMM JUN 3162	37.9330	400.0000	0.3000	205.0087	1.6314	0.2446	6.4475	Open

ID	From Node	To Node	Length (m)	Diameter (mm)	Roughness (mm)	Flow (L/s)	Velocity (m/s)	Headloss (m)	HL/1000 (m/k-m)	Status
P407	DMM_1813	DMAV133	30.8326	197.3000	0.1000	0.0000	0.0000	0.0000	0.0000	Open
DMM_PIP_2549	DMM_JUN_2782	DMM_JUN_3162	37.9330	400.0000	0.3000	205.0087	1.6314	0.2446	6.4475	Open
DMM_PIP_3717	DMM_JUN_3416	DMM_JUN_3164	313.5694	1,000.0000	0.3000	178.4659	0.2272	0.0145	0.0462	Open
DMM_PIP_3337	DMM_JUN_3416	DMM_JUN_3414	49.1183	400.0000	0.3000	267.9645	2.1324	0.5370	10.9331	Open
DMM_PIP_2547	DMM_JUN_2782	DMM_JUN_3416	396.3835	1,000.0000	0.3000	446.6180	0.5687	0.1062	0.2678	Open
P381	DMAV121	DMM_12447	17.4475	260.4000	0.1000	0.0000	0.0000	0.0000	0.0000	Open
P379	DMM_JUN_3164	DMAV121	19.2322	260.4000	0.1000	0.0000	0.0000	0.0000	0.0000	Open
DMM_PIP_3201	DMM_JUN_3164	DMM_JUN_3312	543.8372	1,000.0000	0.3000	178.3798	0.2271	0.0251	0.0462	Open
DMM_PIP_3587	DMM_JUN_3312	DMM_JUN_2600	9.3955	400.0000	0.3000	33.4058	0.2658	0.0018	0.1921	Open
DMM_PIP_3579	DMM_JUN_3312	DMM_JUN_3316	1,192.9900	1,000.0000	0.3000	144.4011	0.1839	0.0370	0.0310	Open
P415	DMM_3191	DMAV136	30.0804	276.6000	0.1000	92.1320	1.5333	0.2221	7.3819	Open
P419	DMAV136	DMM_1781	56.3494	276.6000	0.1000	92.1320	1.5333	0.4160	7.3821	Open
DMM_PIP_3343	DMM_JUN_3316	DMM_JUN_3318	3.4290	400.0000	0.3000	118.2539	0.9410	0.0075	2.1905	Open
DMM_PIP_3583	DMM_JUN_3316	DMM_JUN_3314	839.1509	1,000.0000	0.3000	26.1266	0.0333	0.0011	0.0013	Open
DMM_PIP_2819	DMM_JUN_3156	DMAV177	4.5805	400.0000	0.3000	0.0000	0.0000	0.0000	0.0000	Open
P511	DMAV177	DMM_JUN_3154	5.1596	400.0000	0.3000	0.0000	0.0000	0.0000	0.0000	Open
DMM_PIP_2579	DMM_6695	DMM_JUN_3178	241.7037	400.0000	0.3000	-0.3962	0.0032	0.0000	0.0001	Open
DMM_PIP_2959	DMM_JUN_2928	DMM_JUN_2926	93.7455	1,600.0000	0.3000	4,199.9700	2.0889	0.1818	1.9388	Open
DMM_PIP_2957	DMM_JUN_2924	DMM_JUN_2928	83.9169	1,600.0000	0.3000	4,199.9700	2.0889	0.1627	1.9389	Open
DMM_PIP_2955	DMM_JUN_2922	DMM_JUN_2924	596.5691	1,600.0000	0.3000	4,199.9700	2.0889	1.1567	1.9389	Open
DMM_PIP_2953	DMM_JUN_2918	DMM_JUN_2922	2,794.4302	1,600.0000	0.3000	4,199.9700	2.0889	5.4181	1.9389	Open
DMM_PIP_2951	DMM_JUN_2920	DMM_JUN_2918	2,332.0760	1,600.0000	0.3000	4,199.9700	2.0889	4.5216	1.9389	Open
DMM_PIP_3013	JAMIAH_TANK	DMM_JUN_2920	12.3237	1,600.0000	0.3000	4,199.9700	2.0889	0.0239	1.9390	Open
DMM_PIP_2731	DMM_JUN_2846	DMM_14474	6.1337	400.0000	0.3000	6.0994	0.0485	0.0000	0.0076	Open
DMM_PIP_1393	DMM_6953	DMM_VAL_8124	20.7269	600.0000	0.3000	0.0320	0.0001	0.0000	0.0000	Open
JAMEAH_OUTLET	JAMIAH_TANK	DMM_JUN_3260	117.8040	1,000.0000	0.3000	1,669.8550	2.1261	0.4172	3.5414	Open
DMM_PIP_3469	DMM_JUN_3260	JAMIAH_PS	85.4643	600.0000	0.3000	503.8458	1.7820	0.3981	4.6585	Open
DMM_PIP_3465	DMM_JUN_3260	DMAV317	2,356.1574	1,000.0000	0.3000	491.7580	0.6261	0.7604	0.3227	Open
DMM_PIP_3471	JAMIAH_PS	DMM_JUN_2848	56.3945	600.0000	0.3000	503.8458	1.7820	0.2627	4.6584	Open
DMM_PIP_2727	DMM_JUN_2844	DMAV16	0.5643	400.0000	0.3000	43.8281	0.3488	0.0002	0.3132	Open
DMM_PIP_2727A	DMAV16	DMM_5840	0.5850	400.0000	0.3000	43.8281	0.3488	0.0002	0.3180	Open
DMM_PIP_2693	DMM_JUN_2840	DMM_5339	5.0960	400.0000	0.3000	42.1207	0.3352	0.0015	0.2994	Open
DMM_PIP_2689	DMM_JUN_2838	DMM_5340	9.6406	400.0000	0.3000	-1.9136	0.0152	0.0000	0.0010	Open
DMM_PIP_2707(1)	DMM_JUN_2842	PRV-20	33.6368	400.0000	0.3000	29.0629	0.2313	0.0050	0.1477	Open
DMM_PIP_2707(2)	PRV-20	DMM_5812	13.5305	400.0000	0.3000	29.0629	0.2313	0.0020	0.1478	Open





### 1.4.2 Maximum Pressure, Minimum Velocity - Minimum Hourly Demand

The maximum pressure in the system has been investigated within Option 2 Scenario for both models.

Figure 12 shows the maximum pressure from the original model in the system at each node during the minimum hourly demand. Within Dammam project, the maximum achieved pressure is around 6.83 bar. A few points with black or blue colours are either closed or the proximity to the pumps.

Figure 13 shows the maximum pressure from the modified model in the system at each node during the minimum hourly demand. The overall water system pressure is less than 4 bar. Most of the system has a pressure lower than 4 bar (green color). The orange points are very close to 4 bar which is acceptable. A few points with black or blue colors are either closed or the proximity to the pumps. Within Dammam 2 and Dammam 5 scopes, the maximum achieved pressure is less than 4 bar except for the gravity main 1600 mm, which can go as high as around 7 bar.

Comparing the two models, it is obvious that by modifying the model, overall, the system pressure reduces. This behaviour of the water system is primarily due to the VSD characteristics of the pumps.

Regarding the minimum flow rate during the day, the minimum hourly demand was investigated within Option 2 scenario.

Figure 14 presents the minimum velocities during minimum hourly demand in the original model. Again, most of the pipes in the system have a low velocity of less than 0.3 m/s (except the gravity main 1600 mm Diameter from Jamiah to Tank 55, which has a higher velocity of around 2.18 m/s).

Concerning the minimum velocity during minimum hourly demand in the modified model, some of the pipes in the scopes of Dammam 2 and Dammam 5 and most of the pipes in the all the Dammam system have a low velocity of less than 0.3 m/s (except the gravity main purple coloured 1600mm diameter from Jamiah to Tank 55 which has higher velocity around 2.08 m/s). Figure 15 presents the minimum water velocities in the system during minimum demand hour.







Figure 12- Original Model - System Maximum Pressure during the minimum hourly demand (Scenario 1)

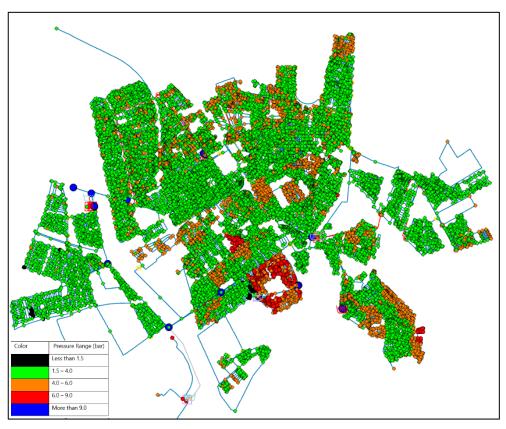


Figure 13- Modified Model - System Maximum Pressure during the minimum hourly demand (Scenario 1)





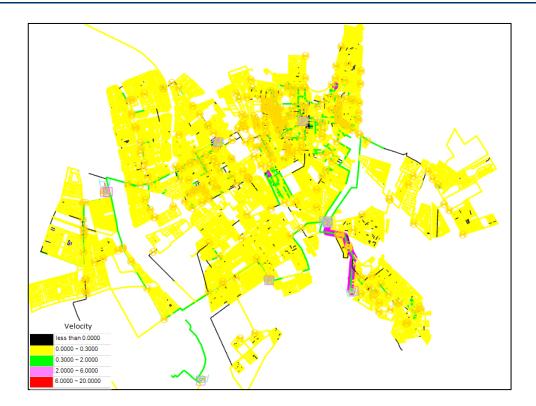


Figure 14- Original Model - Water velocities during minimum hourly demand (Scenario 1)

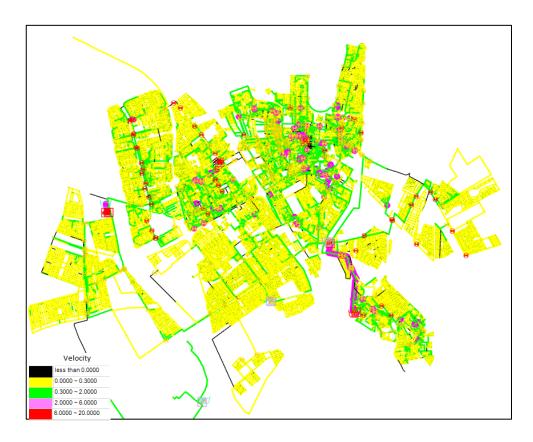


Figure 15- Modified Model - Water velocities during minimum hourly demand (Scenario 1)





Tables 11 and 12 show the junction and pipes properties respectively during the minimum demand hour for this scenario.

Table 11: Table for junctions within Dammam 2 and 5 at the minimum demand hour within scenario 1

10	Demand	Elevation	Head	Pressure
ID	(L/s)	(m)	(m)	(bar)
DMM_JUN_2974	0.0000	5.0000	43.5869	3.7812
DMM_JUN_2970	0.0000	5.0000	43.5130	3.7740
DMM_JUN_2972	0.0000	5.0000	43.5250	3.7751
DMM_JUN_3006	0.0244	5.0000	42.2458	3.6498
DMM_JUN_3004	0.1018	4.0000	42.2399	3.7472
DMM_JUN_3002	0.4998	4.0000	42.2417	3.7474
DMM_JUN_2856	0.1900	5.0000	42.2527	3.6505
DMM_JUN_2858	0.7014	2.0000	42.3022	3.9493
DMM_JUN_3000	1.0336	6.0000	42.3536	3.5624
DMM_3879	0.0041	6.0000	42.3535	3.5624
DMM_JUN_2860	1.3068	3.0000	42.4691	3.8677
DMM_JUN_2854	0.4154	6.0000	42.5842	3.5850
DMM_JUN_2996	0.0317	6.0000	42.5981	3.5863
DMM_JUN_2994	0.0164	6.0000	42.5982	3.5863
DMM_JUN_2852	0.1407	4.0000	42.8213	3.8042
DMM_JUN_3374	0.1466	3.0000	42.9378	3.9136
DMM_JUN_3372	0.4920	3.0000	42.9699	3.9167
DMM_JUN_2626	0.3470	3.0000	42.9985	3.9195
DMM_JUN_2638	0.3037	6.0000	42.9685	3.6226
DMM_JUN_3008	0.0338	5.0000	42.9644	3.7202
DMM_JUN_2690	0.4260	7.0000	42.9324	3.5211
DMM_JUN_3010	0.0539	2.0000	42.9318	4.0110
DMM_JUN_3012	0.2539	6.0000	42.9130	3.6172
DMM_JUN_2636	0.2725	4.0000	42.8738	3.8093
DMM_JUN_3014	0.0392	7.0000	42.0246	3.4321
DMM_JUN_3016	0.1606	5.0000	42.8658	3.7105
DMM_JUN_3024	0.2887	7.0000	42.8612	3.5141
DMM_JUN_3026	0.1094	6.0000	42.8469	3.6107
DMM_JUN_2692	0.5843	6.0000	42.8458	3.6106
DMM_JUN_3020	0.2366	6.0000	42.7934	3.6055
DMM_JUN_2740	0.1142	11.0000	42.6828	3.1047
DMM_JUN_3018	0.0142	4.0000	41.6362	3.6881
DMM_7590	0.0573	10.0000	42.6776	3.2021
DMM_JUN_3022	0.1116	4.0000	42.7894	3.8011
DMM_JUN_3028	0.2017	4.0000	42.8237	3.8044





ID	Demand	Elevation	Head	Pressure
10	(L/s)	(m)	(m)	(bar)
DMM_JUN_2634	0.1846	4.0000	42.8225	3.8043
DMM_JUN_3032	0.0132	4.0000	42.8116	3.8032
DMM_JUN_3030	0.0435	6.0000	42.5104	3.5777
DMM_JUN_3038	0.1593	2.0000	42.8086	3.9989
DMM_JUN_2632	0.1727	2.0000	42.8078	3.9988
DMM_JUN_3040	0.0111	2.0000	42.7954	3.9976
DMM_JUN_3034	0.0775	2.0000	42.8022	3.9983
DMM_JUN_2640	0.3993	2.0000	42.8050	3.9986
DMM_JUN_2654	0.2872	3.0000	42.8038	3.9005
DMM_JUN_2630	0.1541	3.0000	42.7820	3.8983
DMM_JUN_3042	0.2259	2.0000	42.7797	3.9961
DMM_JUN_276	0.0996	5.0000	42.7337	3.6976
DMM_JUN_3044	0.1526	4.0000	42.7759	3.7997
DMM_JUN_3046	0.0428	4.0000	42.8035	3.8024
DMM_JUN_3048	0.0605	4.0000	42.6336	3.7858
DMM_JUN_2730	0.1587	4.0000	42.8012	3.8022
J-14	0.4011	4.3951	42.8012	3.7635
DMM_JUN_2656	0.0000	11.0000	44.8078	3.3129
DMM_JUN_2732	0.0608	5.0000	44.8078	3.9008
DMM_JUN_3052	0.0174	4.0000	44.8078	3.9988
DMM_JUN_3054	0.0326	4.0000	44.6409	3.9825
DMM_JUN_2734	0.0713	3.0000	44.8078	4.0968
DMM_JUN_3058	0.0105	2.0000	44.8078	4.1948
DMM_JUN_3378	0.0227	7.0000	44.8078	3.7049
DMM_JUN_3376	0.0106	7.0000	44.7393	3.6982
DMM_JUN_3062	0.0049	3.0000	44.8078	4.0968
DMM_JUN_2736	1.2287	1.0000	44.8079	4.2928
DMM_JUN_3064	0.0764	7.0000	44.8083	3.7049
DMM_JUN_3066	0.0030	7.0000	44.8039	3.7045
DMM_JUN_3070	0.0114	7.0000	44.8036	3.7045
DMM_JUN_3068	0.0132	7.0000	44.8030	3.7044
DMM_JUN_2738	0.2850	18.0000	44.8107	2.6272
DMM_2915	0.0030	12.0000	44.8090	3.2150
DMM_JUN_2976	0.3652	6.0000	44.8142	3.8035
DMM_JUN_2980	0.4402	6.0000	44.8153	3.8036





ID	Demand	Elevation	Head	Pressure
ID ID	(L/s)	(m)	(m)	(bar)
DMM_JUN_2962	0.0000	6.0000	195.3457	18.5544
DMM_JUN_2978	1.8058	6.0000	44.8064	3.8027
J52	0.0000	0.0000	17.9087	1.7549
J54	0.0000	0.0000	17.9076	1.7548
DMM_JUN_2960	0.0000	3.0000	195.3604	18.8498
DMM_JUN_3284	0.8471	10.0000	44.7179	3.4021
DMM_JUN_3282	0.1645	10.0000	44.7194	3.4022
DMM_JUN_2390	0.0187	10.0000	44.7190	3.4022
DMM_JUN_2392	0.0168	15.0000	44.7186	2.9122
DMM_3406	0.0030	15.0000	44.7185	2.9122
DMM_JUN_3348	0.0416	15.0000	44.7185	2.9122
DMM_JUN_3350	0.3099	15.0000	44.7142	2.9118
DMM_JUN_2394	0.0500	15.0000	44.7070	2.9111
DMM_JUN_2814	0.1180	11.0000	44.7167	3.3040
DMM_JUN_3288	0.2543	12.0000	44.7115	3.2055
DMM_JUN_3286	0.1653	12.0000	44.7083	3.2052
DMM_JUN_2816	0.2314	12.0000	44.7104	3.2054
DMM_JUN_3290	0.2348	13.0000	44.7075	3.1071
DMM_JUN_3292	0.1993	13.0000	44.7080	3.1071
J30	0.0000	13.0000	44.3908	3.0761
DMM_JUN_3300	0.1438	10.0000	44.7064	3.4009
DMM_JUN_3298	0.1105	10.0000	44.7056	3.4009
J28	0.0000	10.0000	44.2706	3.3583
DMM_JUN_2818	0.4287	14.0000	44.7062	3.0090
DMM_JUN_2812	0.2373	14.0000	44.7058	3.0089
DMM_JUN_3296	1.2195	14.0000	44.7054	3.0089
DMM_JUN_3294	0.5420	14.0000	44.7039	3.0087
DMM_JUN_3354	0.1948	12.0000	43.7558	3.1118
DMM_JUN_3360	0.0021	11.0000	43.7868	3.2128
DMM_JUN_3358	0.1088	11.0000	43.7865	3.2128
DMM_JUN_3356	0.1049	11.0000	43.7877	3.2129
DMM_JUN_2806	0.7310	9.0000	43.8031	3.4104
DMM_2856	0.2867	12.0000	43.7134	3.1077
DMM_JUN_3380	0.1626	9.0000	43.8175	3.4118
DMM_JUN_3382	0.2335	9.0000	43.8144	3.4115





ID	Demand	Elevation	Head	Pressure
	(L/s)	(m)	(m)	(bar)
DMM_JUN_3302	0.2334	3.0000	44.3417	4.0512
DMM_JUN_2294	0.0162	3.0000	44.3423	4.0512
DMM_JUN_2810	0.2499	12.0000	44.0192	3.1376
DMM_JUN_3352	0.0898	12.0000	44.0147	3.1372
DMM_846	0.1644	17.0000	45.8677	2.8288
DMM_JUN_3138	0.0364	11.0000	45.8941	3.4193
DMM_JUN_3384	0.0448	4.0000	45.8900	4.1049
DMM_JUN_3142	0.1384	6.0000	45.9158	3.9114
DMM_JUN_2744	0.1506	6.0000	45.9155	3.9114
DMM_JUN_3386	0.1524	6.0000	45.8855	3.9085
DMM_JUN_2746	0.2071	2.0000	45.9526	4.3070
DMM_JUN_3148	0.6174	8.0000	46.0464	3.7282
DMM_JUN_3146	0.0526	8.0000	46.0093	3.7246
DMM_JUN_2762	0.0970	5.0000	46.1795	4.0353
DMM_JUN_3388	0.0749	7.0000	46.1642	3.8378
DMM_2002	0.0393	3.0000	46.0885	4.2223
DMM_JUN_2764	0.0237	6.0000	46.2531	3.9445
DMM_JUN_3150	0.0190	2.0000	46.2293	4.3341
DMM_JUN_2766	0.3336	4.0000	46.2776	4.1429
DMM_JUN_2768	0.0354	5.0000	46.4390	4.0607
DMM_JUN_3152	0.0388	5.0000	46.4280	4.0596
DMM_JUN_2982	0.0372	5.0000	46.7786	4.0940
J58	0.0000	0.0000	17.9176	1.7558
DMM_JUN_2986	0.0357	5.0000	46.7843	4.0945
J56	0.0000	0.0000	17.9195	1.7560
DMM_JUN_2944	0.0000	7.0000	85.1574	7.6588
DMM_JUN_2942	0.0000	10.0000	86.1323	7.4604
DMM_JUN_2940	0.0000	12.0000	86.5755	7.3078
DMM_JUN_2938	0.0000	9.0000	86.7644	7.6203
DMM_JUN_2936	0.0000	16.0000	87.1072	6.9679
DMM_JUN_2934	0.0000	12.0000	87.5410	7.4024
DMM_JUN_2932	0.0000	21.0000	88.3191	6.5967
DMM_JUN_2930	0.0000	29.0000	89.7073	5.9488
DMM_JUN_3280	0.0000	33.0000	89.8553	5.5714
DMM_JUN_2428	0.0000	32.0000	89.8177	5.6657





ID	Demand	Elevation	Head	Pressure
10	(L/s)	(m)	(m)	(bar)
DMM_19836	0.0000	38.0000	89.7886	5.0749
J60	0.0000	37.0000	47.1034	0.9901
J62	0.0000	0.0000	47.1079	4.6162
DMM_JUN_3276	0.0000	37.0000	47.0924	0.9890
DMM_JUN_3278	0.0261	38.0000	67.9222	2.9321
DMM_JUN_3174	0.0141	30.0000	47.0260	1.6684
DMM_1160	0.0096	31.0000	67.9147	3.6174
21665-B	0.0000	27.0000	67.9143	4.0093
DMM_JUN_2794	3.9006	27.0000	67.8086	3.9989
DMM_JUN_2796	0.0161	33.0000	67.8078	3.4109
DMM_JUN_3176	0.0035	31.0000	67.8075	3.6068
DMM_JUN_2678	0.0066	16.0000	67.7652	5.0726
DMM_JUN_3418	0.0028	15.0000	50.9570	3.5235
DMM_JUN_2680	0.0174	14.0000	67.6937	5.2616
DMM_6709	0.4089	19.0000	50.8689	3.1229
DMM_JUN_2790	0.4710	21.0000	67.6784	4.5741
DMM_JUN_3182	0.0253	21.0000	50.9326	2.9332
DMM_JUN_2788	0.1012	10.0000	41.6260	3.0991
J-23	0.0000	10.2337	67.6153	5.6229
DMM_6915	0.0107	15.0000	41.6205	2.6086
DMM_JUN_3186	0.0697	16.0000	41.5504	2.5037
DMM_JUN_2684	0.0392	10.0000	41.4904	3.0858
DMM_JUN_3188	0.0084	5.0000	41.4885	3.5756
DMM_JUN_2682	0.0669	5.0000	41.4629	3.5731
DMM_5853	0.0979	5.0000	41.4617	3.5730
DMM_JUN_3190	0.0520	7.0000	41.4246	3.3733
DMM_JUN_3192	0.0513	2.3782	41.3957	3.8234
DMM_JUN_3194	0.0118	5.5318	41.3923	3.5140
DMM_5301	0.0749	4.0000	41.3751	3.6625
DMM_JUN_2802	0.1077	3.0000	41.3762	3.7606
197	0.0064	5.3500	41.3563	3.5283
10789	0.0308	5.1300	41.3561	3.5499
5447	0.0052	2.0000	41.3522	3.8562
10800	0.0030	2.0000	41.3522	3.8562
10795	0.0000	1.7300	41.3563	3.8831





	Demand	Elevation	Head	Pressure
ID	(L/s)	(m)	(m)	(bar)
196	0.0000	1.7000	41.3563	3.8860
DMM_JUN_3184	0.0609	9.0000	41.5294	3,1876
DMM_3337	0.0655	7.0000	46.3854	3.8595
DMM_JUN_3320	0.0442	7.0000	46.3808	3.8590
DMM_JUN_2984	0.1269	5.0000	46.7818	4.0943
DMM_JUN_2776	0.6857	11.0000	46.6884	3.4972
DMM_JUN_2778	0.3069	17.0000	46.6339	2.9039
DMM_JUN_3158	0.2192	17.0000	46.6233	2.9028
DMM_JUN_2884	0.9222	17.0000	46.6309	2.9036
DMM_JUN_2780	0.0142	8.0000	46.5272	3.7754
DMM_JUN_3160	0.0142	8.0000	46.5226	3.7749
	0.1201	5.0000	46.5138	4.0680
DMM_1813	0.1542	9.0000	40.5130	3.2770
DMM_17921				
DMM_JUN_2782	0.0867	5.0000	46.4913	4.0658
DMM_JUN_3162	0.0019	2.0000	46.4770	4.3584
DMM_JUN_3416	0.0523	7.0000	46.4817	3.8689
DMM_JUN_3414	0.0597	7.0000	46.4343	3.8643
DMM_JUN_3164	0.0240	7.0000	46.4803	3.8688
DMM_12447	0.0871	8.0000	37.6459	2.9051
DMM_JUN_3312	0.1598	4.0000	46.4780	4.1625
DMM_JUN_2600	0.0000	4.0000	46.4778	4.1625
DMM_3191	0.2256	7.0000	46.2959	3.8507
DMM_1781	0.3971	8.0000	46.2394	3.7472
DMM_JUN_3316	0.0057	5.0000	46.4746	4.0642
DMM_JUN_3318	0.0384	5.0000	46.4742	4.0641
DMM_JUN_3314	0.0468	4.0000	46.4741	4.1621
DMM_JUN_3156	0.2571	17.0000	46.4495	2.8858
DMM_JUN_3154	0.2082	17.0000	46.3632	2.8774
DMM_JUN_3178	0.0144	37.0000	67.8041	3.0186
DMM 6695	0.0125	38.0000	67.8041	2.9206
DMM JUN 2926	0.0000	38.0000	90.0402	5.0995
DMM JUN 2928	0.0000	35.0000	90.2219	5.4113
DMM JUN 2924	0.0000	35.0000	90.3846	5.4273
DMM JUN 2922	0.0000	42.0000	91.5413	4.8547
DMM JUN 2918	0.0000	40.0000	96.9594	5.5816
ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (bar)
DMM JUN 2920	0.0000	80.0000	101.4810	2.1050
DMM 14474	0.0000	89.0000	115.1312	2.5607
DMM JUN 2846	0.8200	89.0000	115.1312	2.5607
DMM_5014_2840	0.0267	42.0000	67.9186	2.5398
DMM JUN 3260	188.0124	80.0000	101.4707	2.1040
DMM_JUN_2844	0.0139	89.0000	115.1557	2.5631
DMM_J0N_2844 DMM_5840	0.0000	89.0000	115.1557	2.5631
_	0.0000	91.0000	115.1557	2.3655
DMM_5339	0.0980		115.1401	1.9736
DMM_JUN_2840		95.0000		
DMM_5340	0.0937	74.0000	115.0475	4.0223
DMM_JUN_2838	0.4992	71.0000	115.0475	4.3163
DMM_JUN_2842	0.0376	53.0000	83.4653	2.9854
DMM 5812	0.0162	51.0000	76.8196	2.5301
DWW_0012	0.0987	53,0000	83 6057	2 0001

0.0987

J-49

53.0000

83.6057

2.9991





Table 12: Table for pipes within Dammam 2 and 5 at the minimum demand hour within scenario 1

ID	From Node	To Node	Length (m)	Diameter (mm)	Roughness (mm)	Flow (L/s)	Velocity (m/s)	Headloss (m)	HL/1000 (m/k-m)	Status
P-30	FCV-3	DHAHYIA TANK	158.1679	2,000.0000		11,989.7892	3.8165	0.7708	4.8736	Open
P-29	HIYASTRATEGICT		420.1012	2,000.0000		11,989.7892	3.8165	2.0474	4.8736	Open
DHAHIYA_OUTLET	DHAHYIA TANK	DHAHYIA PUMP	90.4825	1,400.0000	0.3000	627.6751	0.4077	0.0085	0.0938	Open
P11	DHAHYIA_TANK	ASTRATEGICOPTI	105.0086	1,600.0000	0.3000	3,699.9998	1.8402	0.1585	1.5097	Open
P15	DHAHYIA_TANK	ASTRATEGICOPTI	104.0323	1,600.0000	0.3000	0.0000	0.0000	0.0000	0.0000	Closed
P17	ASTRATEGICOPTI	J-68	109.0136	1,600.0000	0.3000	0.0000	0.0000	0.0000	0.0000	Closed
P13	ASTRATEGICOPTI	DMM_JUN_2900	108.7711	1,600.0000	0.3000	3,699.9998	1.8402	0.1642	1.5097	Open
DMM_PIP_3041	DMM_VAL_8180	DMM_JUN_2974	88.9742	1,400.0000	0.3000	627.6751	0.4077	0.0083	0.0938	Open
DMM_PIP_3039	DHAHYIA_PUMP	DMM_VAL_8180	86.3150	1,400.0000	0.3000	627.6751	0.4077	0.0081	0.0938	Open
DMM_PIP_2095	DMM_JUN_2974	DMM_VAL_8188	328.9556	1,000.0000	0.3000	330.0845	0.4203	0.0492	0.1495	Open
DMM_PIP_2143	DMM_JUN_2974	DMM_VAL_8190	312.4777	1,000.0000	0.3000	297.5906	0.3789	0.0383	0.1225	Open
DMM_PIP_3059	DMM_VAL_8190	DMM_JUN_2972	193.3053	1,000.0000	0.3000	297.5906	0.3789	0.0237	0.1225	Open
DMM_PIP_3057	DMM_VAL_8188	DMM_JUN_2970	165.8876	1,000.0000	0.3000	330.0845	0.4203	0.0248	0.1495	Open
P19	J-68	DMM_JUN_2900	11.0483	1,600.0000	0.3000	-1,139.9942	0.5670	0.0017	0.1499	Open
DMM_PIP_3109A	DMAV34	DMM_JUN_3002	151.4414	400.0000	0.3000	10.7975	0.0859	0.0036	0.0235	Open
DMM_PIP_3109	DMM_JUN_3006	DMAV34	23.4707	400.0000	0.3000	10.7975	0.0859	0.0005	0.0234	Open
DMM_PIP_3107	DMM_JUN_3006	DMAV35	17.5910 35.6976	400.0000	0.3000	22.5506 33.3725	0.1795	0.0016	0.0915	Open
DMM_PIP_2761	DMM_JUN_2856 DMAV35	DMM_JUN_3006 DMM_JUN_3004	46.7041	400.0000	0.3000	22.5506	0.2050	0.0068	0.0917	Open Open
DMM_PIP_3107A DMM_PIP_2747	DMM_JUN_2858	DMM_JUN_2856	255.6478	400.0000	0.3000	33.5625	0.2671	0.0043	0.1938	Open
DMM_PIP_3099	DMM JUN 3000	DMM_JUN_2858	255.0532	400.0000	0.3000	34.2639	0.2727	0.0514	0.2015	Open
DMM_PIP_3099	DMM_JUN_3000	DMAV33	2.5392	400.0000	0.3000	9,5986	0.0764	0.0001	0.02013	Open
DMM_PIP_2749	DMM JUN 2860	DMM_JUN_3000	342.7624	400.0000	0.3000	44.8960	0.3573	0.1155	0.3370	Open
DMM_PIP_3101A	DMAV33	DMM 3879	5.0712	400.0000	0.3000	9.5986	0.0764	0.0001	0.0183	Open
DMM 8544	DMM_3563	DMM_3879	0.6716	197.3000	0.3000	-9.5944	0.3138	0.0004	0.6371	Open
DMM_PIP_2745	DMM_JUN_2854	DMM_JUN_2860	323.1590	400.0000	0.3000	46.2028	0.3677	0.1151	0.3561	Open
DMM_PIP_3093	DMM_JUN_2996	DMM_JUN_2854	38.4895	400.0000	0.3000	46.6182	0.3710	0.0139	0.3621	Open
DMM_PIP_3095	DMM_JUN_2996	DMAV32	5.2456	400.0000	0.3000	-3.0062	0.0239	0.0000	0.0027	Open
DMM_PIP_2743	DMM_JUN_2852	DMM_JUN_2996	698.8017	400.0000	0.3000	43.6438	0.3473	0.2232	0.3193	Open
DMM_PIP_3095A	DMAV32	DMM_JUN_2994	18.5296	400.0000	0.3000	-3.0062	0.0239	0.0000	0.0025	Open
DMM_PIP_3675	DMM_JUN_3372	DMM_JUN_2852	462.3809	400.0000	0.3000	43.7845	0.3484	0.1486	0.3213	Open
DMM_PIP_3089	DMM_JUN_3372	DMAV30	55.0482	400.0000	0.3000	24.6366	0.1961	0.0060	0.1081	Open
DMM_PIP_3089A	DMAV30	DMM_JUN_3374	241.1596	400.0000	0.3000	24.6366	0.1961	0.0261	0.1082	Open
DMM_PIP_2137	DMM_JUN_2626	DMM_JUN_3372	37.2392	400.0000	0.3000	68.9130	0.5484	0.0286	0.7677	Open
DMM_PIP_3113	DMM_JUN_2638	DMAV42	22.7195	400.0000	0.3000	15.0671	0.1199	0.0010	0.0434	Open
ID	From Node	To Node	Length	Diameter	Roughness		Velocity	Headloss	HL/1000	Status
			(m)	(mm)	(mm)	(L/s)	(m/s)	(m)	(m/k-m)	
DMM_PIP_2109	DMM_JUN_2638	DMM_JUN_2690	(m) 593.2417	(mm) 1,000.0000	(mm) 0.3000	(L/s) 206.2540	(m/s) 0.2626	(m) 0.0361	(m/k-m) 0.0609	Open
DMM_PIP_2109 DMM_PIP_2097	DMM_JUN_2638 DMM_JUN_2626	DMM_JUN_2690 DMM_JUN_2638	(m) 593.2417 429.6359	(mm) 1,000.0000 1,000.0000	(mm) 0.3000 0.3000	(L/s) 206.2540 221.6247	(m/s) 0.2626 0.2822	(m) 0.0361 0.0300	(m/k-m) 0.0609 0.0697	Open Open
DMM_PIP_2109 DMM_PIP_2097 DMM_PIP_3113A	DMM_JUN_2638 DMM_JUN_2626 DMAV42	DMM_JUN_2690 DMM_JUN_2638 DMM_JUN_3008	(m) 593.2417 429.6359 70.4685	(mm) 1,000.0000 1,000.0000 400.0000	(mm) 0.3000 0.3000 0.3000	(L/s) 206.2540 221.6247 15.0671	(m/s) 0.2626 0.2822 0.1199	(m) 0.0361 0.0300 0.0031	(m/k-m) 0.0609 0.0697 0.0433	Open Open Open
DMM_PIP_2109 DMM_PIP_2097 DMM_PIP_3113A DMM_PIP_3117	DMM_JUN_2638 DMM_JUN_2626 DMAV42 DMM_JUN_2690	DMM_JUN_2690 DMM_JUN_2638 DMM_JUN_3008 DMAV37	(m) 593.2417 429.6359 70.4685 125.8354	(mm) 1,000.0000 1,000.0000 400.0000 400.0000	(mm) 0.3000 0.3000 0.3000 0.3000	(L/s) 206.2540 221.6247 15.0671 1.9060	(m/s) 0.2626 0.2822 0.1199 0.0152	(m) 0.0361 0.0300 0.0031 0.0001	(m/k-m) 0.0609 0.0697 0.0433 0.0011	Open Open Open Open
DMM_PIP_2109 DMM_PIP_2097 DMM_PIP_3113A DMM_PIP_3117 DMM_PIP_2277	DMM_JUN_2638 DMM_JUN_2626 DMAV42 DMM_JUN_2690 DMM_JUN_2690	DMM_JUN_2690 DMM_JUN_2638 DMM_JUN_3008 DMAV37 DMM_JUN_3012	(m) 593.2417 429.6359 70.4685 125.8354 326.2218	(mm) 1,000.0000 1,000.0000 400.0000 1,000.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) 206.2540 221.6247 15.0671 1.9060 203.9220	(m/s) 0.2626 0.2822 0.1199 0.0152 0.2596	(m) 0.0361 0.0300 0.0031 0.0001 0.0194	(m/k-m) 0.0609 0.0697 0.0433 0.0011 0.0595	Open Open Open Open Open
DMM_PIP_2109 DMM_PIP_2097 DMM_PIP_3113A DMM_PIP_3117 DMM_PIP_2277 DMM_PIP_23117A	DMM_JUN_2638 DMM_JUN_2626 DMAV42 DMM_JUN_2690 DMM_JUN_2690 DMAV37	DMM_JUN_2690 DMM_JUN_2638 DMM_JUN_3008 DMAV37	(m) 593.2417 429.6359 70.4685 125.8354	(mm) 1,000.0000 1,000.0000 400.0000 400.0000	(mm) 0.3000 0.3000 0.3000 0.3000	(L/s) 206.2540 221.6247 15.0671 1.9060	(m/s) 0.2626 0.2822 0.1199 0.0152	(m) 0.0361 0.0300 0.0031 0.0001	(m/k-m) 0.0609 0.0697 0.0433 0.0011	Open Open Open Open
DMM_PIP_2109 DMM_PIP_2097 DMM_PIP_3113A DMM_PIP_3117 DMM_PIP_2277 DMM_PIP_3117A DMM_PIP_3123	DMM_JUN_2638 DMM_JUN_2626 DMAV42 DMM_JUN_2690 DMM_JUN_2690	DMM_JUN_2690 DMM_JUN_2638 DMM_JUN_3008 DMAV37 DMM_JUN_3012 DMM_JUN_3010	(m) 593.2417 429.6359 70.4685 125.8354 326.2218 430.3304	(mm) 1,000.0000 400.0000 400.0000 1,000.0000 400.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) 206.2540 221.6247 15.0671 1.9060 203.9220 1.9060	(m/s) 0.2626 0.2822 0.1199 0.0152 0.2596 0.0152	(m) 0.0361 0.0300 0.0031 0.0001 0.0194 0.0005	(m/k-m) 0.0609 0.0697 0.0433 0.0011 0.0595 0.0011	Open Open Open Open Open Open
DMM_PIP_2109 DMM_PIP_2097 DMM_PIP_3113A DMM_PIP_3117 DMM_PIP_2277 DMM_PIP_3117A DMM_PIP_3123 DMM_PIP_3119	DMM_JUN_2638 DMM_JUN_2626 DMAV42 DMM_JUN_2690 DMM_JUN_2690 DMAV37 DMM_JUN_3012	DMM_JUN_2690 DMM_JUN_2638 DMM_JUN_3008 DMAV37 DMM_JUN_3012 DMM_JUN_3010 DMAV43	(m) 593.2417 429.6359 70.4685 125.8354 326.2218 430.3304 25.0933	(mm) 1,000.0000 400.0000 400.0000 1,000.0000 400.0000 400.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) 206.2540 221.6247 15.0671 1.9060 203.9220 1.9060 0.0000	(m/s) 0.2626 0.2822 0.1199 0.0152 0.2596 0.0152 0.0052	(m) 0.0361 0.0300 0.0031 0.0001 0.0194 0.0005 0.0000	(m/k-m) 0.0609 0.0697 0.0433 0.0011 0.0595 0.0011 0.0000	Open Open Open Open Open Open Open
DMM_PIP_2109 DMM_PIP_2097 DMM_PIP_3113A DMM_PIP_3117 DMM_PIP_3117 DMM_PIP_3117 DMM_PIP_3123 DMM_PIP_3119 DMM_PIP_3127	DMM_JUN_2638 DMM_JUN_2626 DMAV42 DMM_JUN_2690 DMM_JUN_2690 DMAV37 DMM_JUN_3012 DMM_JUN_3012	DMM_JUN_2690 DMM_JUN_2638 DMM_JUN_3008 DMAV37 DMM_JUN_3012 DMM_JUN_3010 DMAV43 DMM_JUN_2636	(m) 593.2417 429.6359 70.4685 125.8354 326.2218 430.3304 25.0933 658.4426	(mm) 1,000.0000 400.0000 400.0000 1,000.0000 400.0000 400.0000 1,000.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) 206.2540 221.6247 15.0671 1.9060 203.9220 1.9060 0.0000 203.6681	(m/s) 0.2626 0.2822 0.1199 0.0152 0.2596 0.0152 0.0000 0.2593	(m) 0.0361 0.0030 0.0031 0.0001 0.0194 0.0005 0.0000 0.0391	(m/k-m) 0.0609 0.0697 0.0433 0.0011 0.0595 0.0011 0.0000 0.0594	Open Open Open Open Open Open Open Open
DMM_PIP_2109 DMM_PIP_2097 DMM_PIP_3113A DMM_PIP_3117 DMM_PIP_2277 DMM_PIP_3117A DMM_PIP_3123 DMM_PIP_3119	DMM_JUN_2638 DMM_JUN_2626 DMAV42 DMM_JUN_2690 DMM_JUN_2690 DMAV37 DMM_JUN_3012 DMM_JUN_3012 DMM_JUN_2636	DMM_JUN_2690 DMM_JUN_2638 DMM_JUN_3008 DMAV37 DMM_JUN_3012 DMM_JUN_3010 DMAV43 DMM_JUN_2636 DMAV38	(m) 593.2417 429.6359 70.4685 125.8354 326.2218 430.3304 25.0933 658.4426 69.2475	(mm) 1,000.0000 400.0000 400.0000 1,000.0000 400.0000 400.0000 1,000.0000 400.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) 206.2540 221.6247 15.0671 1.9060 203.9220 1.9060 0.0000 203.6681 15.6759	(m/s) 0.2626 0.2822 0.1199 0.0152 0.2596 0.0152 0.0000 0.2593 0.1247	(m) 0.0361 0.0030 0.0031 0.0001 0.0194 0.0005 0.0000 0.0391 0.0032	(m/k-m) 0.0609 0.0697 0.0433 0.0011 0.0595 0.0011 0.0000 0.0594 0.0466	Open Open Open Open Open Open Open Open
DMM_PIP_2109 DMM_PIP_2097 DMM_PIP_3113A DMM_PIP_3117 DMM_PIP_3117 DMM_PIP_3117 DMM_PIP_3123 DMM_PIP_3119 DMM_PIP_3127 DMM_PIP_2107	DMM_JUN_2638 DMM_JUN_2626 DMAV42 DMM_JUN_2690 DMM_JUN_2690 DMAV37 DMM_JUN_3012 DMM_JUN_3012 DMM_JUN_2636 DMM_JUN_2636	DMM_JUN_2690 DMM_JUN_2638 DMAV37 DMM_JUN_3008 DMM_JUN_3010 DMAV43 DMM_JUN_2636 DMAV38 DMM_JUN_2624	(m) 593.2417 429.6359 70.4685 125.8354 326.2218 430.3304 25.0933 658.4426 69.2475 249.0059	(mm) 1,000.0000 400.0000 1,000.0000 1,000.0000 400.0000 1,000.0000 1,000.0000 1,000.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) 206.2540 221.6247 15.0671 1.9060 203.9220 1.9060 0.0000 203.6681 15.6759 187.7197	(m/s) 0.2626 0.2822 0.1199 0.0152 0.2596 0.0152 0.0000 0.2593 0.1247 0.2390	(m) 0.0361 0.0300 0.0031 0.0001 0.0194 0.0005 0.0000 0.0391 0.0032 0.0127	(m/k-m) 0.0609 0.0697 0.0433 0.0011 0.0595 0.0011 0.0000 0.0594 0.0466 0.0509	Open Open Open Open Open Open Open Open
DMM_PIP_2109 DMM_PIP_2097 DMM_PIP_3113A DMM_PIP_3117 DMM_PIP_3117 DMM_PIP_3123 DMM_PIP_3123 DMM_PIP_3127 DMM_PIP_2107 DMM_PIP_3127A DMM_PIP_3123A	DMM_JUN_2638 DMM_JUN_2626 DMAV42 DMM_JUN_2690 DMM_JUN_2690 DMAV37 DMM_JUN_3012 DMM_JUN_3012 DMM_JUN_2636 DMM_JUN_2636 DMAV38	DMM_JUN_2690 DMM_JUN_2638 DMM_JUN_3008 DMAV37 DMM_JUN_3012 DMM_JUN_3010 DMAV43 DMM_JUN_2636 DMAV38 DMM_JUN_3024 DMM_JUN_3016 DMM_JUN_3014 DMM_JUN_3014	(m) 593.2417 429.6359 70.4685 125.8354 326.2218 430.3304 25.0933 658.4426 69.2475 249.0059 103.8293	(mm) 1,000.0000 400.0000 400.0000 1,000.0000 400.0000 1,000.0000 400.0000 1,000.0000 400.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) 206.2540 221.6247 15.0671 1.9060 203.9220 1.9060 0.0000 203.6681 15.6759 187.7197 15.6759	(m/s) 0.2626 0.2822 0.1199 0.0152 0.2596 0.0152 0.0000 0.2593 0.1247 0.2390 0.1247	(m) 0.0361 0.0001 0.001 0.0194 0.0005 0.0000 0.0391 0.0032 0.0127 0.0048	(m/k-m) 0.0609 0.0697 0.0433 0.0011 0.0595 0.0011 0.0000 0.0594 0.0466 0.0509 0.0466	Open Open Open Open Open Open Open Open
DMM_PIP_2109 DMM_PIP_2097 DMM_PIP_3113A DMM_PIP_3117 DMM_PIP_3117 DMM_PIP_3123 DMM_PIP_3123 DMM_PIP_3127 DMM_PIP_2107 DMM_PIP_3127A DMM_PIP_3123A	DMM_JUN_2638 DMM_JUN_2626 DMAV42 DMM_JUN_2690 DMAV37 DMM_JUN_2690 DMAV37 DMM_JUN_3012 DMM_JUN_2036 DMM_JUN_2636 DMM_30N_2636 DMAV38 DMAV43	DMM_JUN_2690 DMM_JUN_2638 DMM_JUN_3008 DMAV37 DMM_JUN_3012 DMM_JUN_3010 DMAV43 DMM_JUN_3010 DMAV38 DMM_JUN_3024 DMM_JUN_3016 DMM_JUN_3014	(m) 593.2417 429.6359 70.4685 125.8354 326.2218 430.3304 25.0933 658.4426 69.2475 249.0059 103.8293 70.4380	(mm) 1,000.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) 206.2540 221.6247 15.0671 1.9060 203.9220 1.9060 0.0000 203.6681 15.6759 187.7197 15.6759 0.0000	(m/s) 0.2626 0.2822 0.1199 0.0152 0.2596 0.0152 0.0000 0.2593 0.1247 0.2390 0.1247 0.0000	(m) 0.0361 0.0300 0.0031 0.00194 0.0005 0.0000 0.0391 0.0032 0.0127 0.0048 0.0000	(m/k-m) 0.0609 0.0697 0.0433 0.0011 0.0595 0.0011 0.0000 0.0594 0.0466 0.0509 0.0466 0.0000	Open Open Open Open Open Open Open Open
DMM_PIP_2109 DMM_PIP_2097 DMM_PIP_3113A DMM_PIP_3117 DMM_PIP_3117 DMM_PIP_3123 DMM_PIP_3123 DMM_PIP_3127 DMM_PIP_3127A DMM_PIP_3123A DMM_PIP_3123A DMM_PIP_3139	DMM_JUN_2638 DMM_JUN_2626 DMAV42 DMM_JUN_2690 DMAV37 DMM_JUN_3012 DMM_JUN_3012 DMM_JUN_2636 DMM_JUN_2636 DMAV38 DMAV43 DMM_JUN_3024	DMM_JUN_2690 DMM_JUN_2638 DMM_JUN_3008 DMAV37 DMM_JUN_3012 DMM_JUN_3010 DMAV43 DMM_JUN_2636 DMAV38 DMM_JUN_3024 DMM_JUN_3016 DMM_JUN_3014 DMM_JUN_3014	(m) 593.2417 429.6359 70.4685 125.8354 326.2218 430.3304 25.0933 658.4426 69.2475 249.0059 103.8293 70.4380 31.2033	(mm) 1,000.0000 400.0000 400.0000 400.0000 400.0000 400.0000 1,000.0000 1,000.0000 400.0000 400.0000 400.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) 206.2540 221.6247 15.0671 1.9060 203.9220 1.9060 0.0000 203.6681 15.6759 187.7197 15.6759 0.0000 28.2029	(m/s) 0.2626 0.2822 0.1199 0.0152 0.2596 0.2596 0.0152 0.0000 0.2593 0.1247 0.2390 0.1247 0.2390 0.2244 0.2244 0.2224	(m) 0.0361 0.0300 0.0031 0.0001 0.0194 0.0005 0.0000 0.0391 0.0032 0.0127 0.0048 0.0000 0.0048 0.0000 0.0048	(m/k-m) 0.0609 0.0697 0.0433 0.0011 0.0595 0.0011 0.0594 0.0466 0.0509 0.0466 0.0000 0.0466 0.0000 0.1394 0.1395 0.0373	Open Open Open Open Open Open Open Open
DMM_PIP_2109 DMM_PIP_2097 DMM_PIP_3113A DMM_PIP_3117 DMM_PIP_3117 DMM_PIP_3123 DMM_PIP_3123 DMM_PIP_3127 DMM_PIP_3127A DMM_PIP_3127A DMM_PIP_3123A DMM_PIP_3139A DMM_PIP_3139A DMM_PIP_3139A	DMM_JUN_2638 DMM_JUN_2626 DMAV42 DMM_JUN_2690 DMM_JUN_2690 DMAV37 DMM_JUN_3012 DMM_JUN_3012 DMM_JUN_2636 DMM_JUN_2636 DMAV43 DMM_JUN_3024 DMM_JUN_3024 DMM_JUN_3024	DMM_JUN_2690 DMM_JUN_2638 DMAV37 DMAV37 DMM_JUN_3010 DMAV43 DMM_JUN_2636 DMM_JUN_2636 DMM_JUN_2636 DMM_JUN_3024 DMM_JUN_3016 DMM_JUN_3026 DMM_JUN_3026 DMM_JUN_2692 DMAV45	(m) 593.2417 429.6359 70.4685 125.8354 326.2218 430.3304 25.0933 658.4426 69.2475 249.0059 103.8293 70.4380 31.2033 71.4614 412.3026 52.7775	(mm) 1,000.0000 400.0000 400.0000 400.0000 400.0000 1,000.0000 1,000.0000 400.0000 400.0000 400.0000 400.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) 206.2540 221.6247 15.0671 1.9060 203.9220 1.9060 203.6681 15.6759 187.7197 15.6759 0.0000 28.2029 28.2029 159.2281 36.3424	(m/s) 0.2626 0.2822 0.1199 0.0152 0.2596 0.0152 0.2596 0.1247 0.2693 0.1247 0.2390 0.1247 0.2390 0.1247 0.2244 0.2224 0.2224	(m) 0.0361 0.0300 0.0001 0.0011 0.0194 0.0005 0.0392 0.0322 0.0127 0.0048 0.0000 0.0048 0.0000 0.0043 0.0100 0.0154 0.0119	(m/k-m) 0.0609 0.0697 0.0433 0.0011 0.0595 0.0011 0.0595 0.0466 0.0509 0.0466 0.0509 0.0466 0.0000 0.1394 0.1395 0.0373 0.2253	Open Open Open Open Open Open Open Open
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DMM_JUN_3030 DMM_JUN_2634 DMM_JUN_3030 DMA_V39 DMM_JUN_3032 DMM_JUN_3032 DMM_JUN_3032 DMM_JUN_3034	(m) 593.2417 429.6359 70.4685 125.8354 326.2218 430.3304 25.0933 658.4426 69.2475 249.0059 103.8293 70.4380 31.2033 71.4614 412.3026 52.7775 972.3816 179.8294 109.8553 73.1603 25.3978 55.3791 81.4981 48.3822 838.2071 81.4981 48.3822 838.2071 117.4084 68.6345 50.4294 115.9837	(mm) 1,000.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 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ID	From Node	To Node	Length (m)	Diameter (mm)	Roughness (mm)	Flow (L/s)	Velocity (m/s)	Headloss (m)	HL/1000 (m/k-m)	Status
DMM_PIP_2183	DMM_JUN_2654	DMM_JUN_3046	257.0146	1,000.0000	0.3000	22.8476	0.0291	0.0003	0.0011	Open
DMM_PIP_2181	DMM_JUN_2654	DMAV41	40.2069	400.0000	0.3000	30.4176	0.2421	0.0065	0.1609	Open
DMM_PIP_2181A	DMAV41	DMM_JUN_2630	94.8501	400.0000	0.3000	30.4176	0.2421	0.0153	0.1608	Open
DMM_PIP_2101	DMM_JUN_2630	DMM_JUN_3042	61.5293	400.0000	0.3000	13.9965	0.1114	0.0023	0.0379	Open
P761	DMM_JUN_2630	DMAV294	194.9822	300.0000	0.1000	16.2670	0.2301	0.0367	0.1881	Open
DMM_PIP_3159	DMM_JUN_3042	DMM_JUN_3044	104.0888	400.0000	0.3000	13.7706	0.1096	0.0038	0.0367	Open
P763	DMAV294	DMM JUN 276	61.9644	300.0000	0.1000	16.2670	0.2301	0.0117	0.1880	Open
DMM_PIP_3165	DMM_JUN_3046	DMAV49	18.3973	400.0000	0.3000	0.0000	0.0000	0.0000	0.0000	Open
DMM_PIP_3161	DMM JUN 3046	DMM_JUN_2730	2,128.0051	1,000.0000	0.3000	22.8048	0.0290	0.0022	0.0011	Open
DMM_PIP_3165A	DMAV49	DMM JUN 3048	53.9475	400.0000	0.3000	0.0000	0.0000	0.0000	0.0000	Open
DMM_PIP_3169	DMM JUN 2730	DMM JUN 3050	52.1965	400.0000	0.3000	15,4495	0.1229	0.0024	0.0454	Open
DMM_PIP_2397(1)	DMM JUN 2730	J-14	249.3805	1,000.0000	0.3000	7.1965	0.0092	0.0000	0.0001	Open
DMM_PIP_2245	DMM_VAL_8152	DMM JUN 2656	170.1767	1,000.0000	0.3000	0.0000	0.0000	0.0000	0.0000	Open
DMM_PIP_2397(2)	J-14	DMM VAL 8152	381.3947	1,000.0000	0.3000	0.0000	0.0000	0.0000	0.0000	Closed
	DMM_JUN_2656	DMM_JUN_2732	209.3597	1,000.0000	0.3000	0.0000	0.0000	0.0000	0.0000	Open
DMM_PIP_2185	DMM_JUN 2732	DMM_JUN 3052	288.7430	1,000.0000	0.3000	-0.0608	0.0001	0.0000	0.0000	Open
DMM_PIP_2407										
DMM_PIP_3171	DMM_JUN_3052	DMM_JUN_2734	660.2352 15.8176	1,000.0000	0.3000	-0.0782 0.0000	0.0001	0.0000	0.0000	Open
DMM_PIP_2409	DMM_JUN_3052	DMAV292								Open
P757	DMAV292	DMM_JUN_3054	12.9162	400.0000	0.3000	0.0000	0.0000	0.0000	0.0000	Open
DMM_PIP_2411	DMM_JUN_2734	DMM_JUN_3058	335.9824	1,000.0000	0.3000	-0.1494	0.0002	0.0000	0.0000	Open
DMM_PIP_3177	DMM_JUN_3058	DMM_JUN_3378	483.5338	1,000.0000	0.3000	-0.1599	0.0002	0.0000	0.0000	Open
DMM_PIP_3681	DMM_JUN_3378	DMM_JUN_3062	700.9806	1,000.0000	0.3000	-0.1826	0.0002	0.0000	0.0000	Open
DMM_PIP_3179	DMM_JUN_3378	DMAV293	6.8567	400.0000	0.3000	0.0000	0.0000	0.0000	0.0000	Open
P759	DMAV293	DMM_JUN_3376	18.9144	400.0000	0.3000	0.0000	0.0000	0.0000	0.0000	Open
DMM_PIP_3185	DMM_JUN_3062	DMAV51	13.7876	400.0000	0.3000	15.4302	0.1228	0.0006	0.0452	Open
DMM_PIP_3185A	DMAV51	DMM_JUN_3060	25.2030	400.0000	0.3000	15.4302	0.1228	0.0011	0.0452	Open
DMM_PIP_3183	DMM_JUN_3062	DMM_JUN_2736	204.8566	1,000.0000	0.3000	-15.6177	0.0199	0.0001	0.0005	Open
DMM_PIP_2417	DMM_JUN_2736	DMM_JUN_3064	679.5434	1,000.0000	0.3000	-16.8464	0.0215	0.0004	0.0006	Open
DMM_PIP_3193	DMM_JUN_3064	DMM_JUN_3066	27.3053	400.0000	0.3000	30.6325	0.2438	0.0045	0.1630	Open
DMM_PIP_3187	DMM_JUN_3064	DMM_JUN_2738	593.0266	1,000.0000	0.3000	-47.5553	0.0605	0.0024	0.0040	Open
DMM_PIP_3197	DMM_JUN_3066	DMM_JUN_3070	11.8099	400.0000	0.3000	11.2848	0.0898	0.0003	0.0256	Open
DMM PIP 3195	DMM_JUN_3066	DMM_JUN_3068	11.9030	400.0000	0.3000	19.3447	0.1539	0.0008	0.0688	Open
DMM_PIP_3199	DMM JUN 2738	DMAV53	14.2963	400.0000	0.3000	12.9118	0.1027	0.0005	0.0325	Open
DMM_JUN_2738A	DMAV53	DMM 2915	37.0639	400.0000	0.3000	12.9118	0.1027	0.0012	0.0326	Open
DMM PIP 3053	DMM_VAL_8184	DMM JUN 2976	42.8756	1,000.0000	0.3000	61.1172	0.0778	0.0003	0.0063	Open
				,						
			Length	Diameter	Roughness	Flow	Velocity	Headloss	HL/1000	
ID	From Node	To Node	(m)	(mm)	(mm)	(L/s)	(m/s)	(m)	(m/k-m)	Status
DMM_PIP_2421	DMM JUN 2738	DMM JUN 2976	572.1145	1,000.0000	0.3000	-60.7520	0.0774	0.0036	0.0062	Open
DMM_PIP_3043	DMM_JUN_2980	DMM_VAL_8184	132.4107	1,000.0000	0.3000	61.1172	0.0778	0.0008	0.0063	Open
TANK71OUTLET	DMM_VAL_8182	DMM_JUN_2980	24.8994	1,400.0000	0.3000	660.6691	0.4292	0.0026	0.1035	Open
DMM_PIP_3049	TANK 71 PS	DMM VAL 8182	13.6756	1,400.0000	0.3000	660.6691	0.4292	0.0014	0.1037	Open
DMM_PIP_2201	DMM_JUN_2980	DMM VAL 8186	31.3356	1,200.0000	0.3000	599.1118	0.5297	0.0059	0.1872	Open
P813	J54	TANK_71_PS	15.5040	1,400.0000	0.3000	660.6691	0.4292	0.0016	0.1035	Open
	DMM VAL 8186	DMM JUN 2978	16.1688	1,400.0000	0.3000	599.1118	0.4292	0.0010	0.1033	
DMM_PIP_3055	DMM_VAL_8186		590,1604	1,200.0000	0.3000	327.8766	0.5297	0.0030	0.1673	Open
DMM_PIP_3529		DMM_JUN_3282								Open
DMM_PIP_3537	DMM_VAL_8246	DMM_JUN_3284	11.5117	1,000.0000	0.3000	186.4447	0.2374	0.0006	0.0505	Open
DMM_PIP_3535	DMM_JUN_3282	DMM_VAL_8246	18.0664	1,000.0000	0.3000	186.4447	0.2374	0.0009	0.0502	Open
DMM_PIP_3533	DMM_JUN_3284		36.0959	700.0000	0.3000	185.5977	0.4823	0.0109	0.3009	Open
DMM_PIP_3531	DMM_JUN_3282	DMM_JUN_2390	13.3610	1,000.0000	0.3000	141.2674	0.1799	0.0004	0.0299	Open
DMM_PIP_1137	DMM_JUN_2390	DMM_JUN_2392	31.7794	1,200.0000	0.3000	141.2487	0.1249	0.0004	0.0120	Open
DMM_PIP_1143	DMM_JUN_2392	DMM_3406	6.5543	1,200.0000	0.3000	141.2319	0.1249	0.0001	0.0121	Open
DMM_PIP_2617	DMM_3406	DMM_JUN_3348	0.7164	1,000.0000	0.3000	123.9589	0.1578	0.0000	0.0195	Open
DMM_PIP_3631	DMM_JUN_3348	DMM_VAL_8248	19.9899	400.0000	0.3000	23.4083	0.1863	0.0020	0.0984	Open
DMM_PIP_3627	DMM_JUN_3348	DMM_JUN_2814	113.1321	1,000.0000	0.3000	100.5090	0.1280	0.0018	0.0157	Open
DMM_PIP_3633	DMM_VAL_8248	DMM_JUN_3350	23.1385	400.0000	0.3000	23.4083	0.1863	0.0023	0.0983	Open
DMM_PIP_2621	DMM_JUN_2814	DMM_JUN_3288	333.1554	1,000.0000	0.3000	100.3910	0.1278	0.0052	0.0157	Open
								-		
DMM_PIP_3541	DMM_JUN_3288	DMM_JUN_2816	149.5690	1,000.0000	0.3000	66.5020	0.0847	0.0011	0.0073	Open

DMM\_JUN\_3288 DMM\_JUN\_3286

DMM\_JUN\_2816 DMM\_JUN\_3292

DMM\_JUN\_2812 DMM\_JUN\_3294

DMAV67

DMM\_JUN\_3290

DMAV63

J30

DMAV62

J28

DMM\_JUN\_2818

DMAV68

DMM JUN 3298

DMAV61

DMM\_JUN\_2812

DMM JUN 3292 DMM JUN 3300 415.2813

DMM\_JUN\_3292

DMAV67

DMM\_JUN\_3292

DMAV63

DMM\_JUN\_3300

DMAV62

DMM\_JUN\_3300

DMM JUN 3300

DMAV68

**DMM JUN 2818** 

DMAV61

DMM PIP 2627

DMM\_PIP\_2623

DMM PIP 2629

DMM\_PIP\_2629A

DMM\_PIP\_3545

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DMM PIP 3553

DMM PIP 2631

DMM PIP 2631A

DMM\_PIP\_2625 DMM\_PIP\_2625A

DMM\_PIP\_2637

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421.9033

11.4384

1,252.6060

14.4390

111.3169

4.3771

10.4896

339,4440

13.4230

73.7163

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7.3697

7.3697

24.5162

15.9460

15.9460

24.0875

24.0875

11.4060

0.2677

0.0844

0.1085

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0.0611

0.2887

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0.2411

0.2411

0.0312

0.1269

0.1269

0.0307

0.0307

0.0908

0.0031

0.0023

0.0002

0.0004

0.0017

0.3089

0.0084

0.4308

0.0050

0.0001

0.0002

0.0005

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0.0000

0.0019

0.1947

0.0073

0.0364

0.0360

0.0040

0.7321

0.7319

0.3439

0.3440

0.0012

0.0478

0.0483

0.0012

0.0010

0.0260

Open





ID	From Node	To Node	Length (m)	Diameter (mm)	Roughness (mm)	Flow (L/s)	Velocity (m/s)	Headloss (m)	HL/1000 (m/k-m)	Status
DMM PIP 2635	DMM JUN 2812	DMM JUN 3296	13.7738	400.0000	0.3000	12.4442	0.0990	0.0004	0.0304	Open
DMM PIP 3647	DMM JUN 3360	DMM JUN 3354	602.0642	400.0000	0.3000	16.5565	0.1318	0.0310	0.0516	Open
DMM PIP 3645	DMM JUN 3360	DMM JUN 3358	8.7225	400.0000	0.3000	13.1189	0.1044	0.0003	0.0336	Open
DMM PIP 3643A	DMAV86	DMM JUN 3360	3.6893	400.0000	0.3000	29.6775	0.2362	0.0006	0.1538	Open
DMM_PIP_3643	DMM JUN 3356	DMAV86	2.2199	400.0000	0.3000	29.6775	0.2362	0.0003	0.1529	Open
P265	DMM_JUN_2806	DMAV78	52.3986	140.3000	0.1000	4.9428	0.3197	0.0463	0.8832	Open
P267	DMAV78	DMM_2856	49.1738	140.3000	0.1000	4.9428	0.3197	0.0434	0.8832	Open
DMM PIP 2601	DMM_JUN_3380	DMM_JUN_3382	13.9159	400.0000	0.3000	36.3203	0.2890	0.0031	0.2253	Open
DMM PIP 2611	DMM_JUN_2294	DMM_JUN_3302	20.9171	400.0000	0.3000	12.3606	0.0984	0.0006	0.0302	Open
DMM_PIP_2609	DMM_JUN_2810	DMM_JUN_3352	10.6103	400.0000	0.3000	50.8067	0.4043	0.0045	0.4269	Open
DMM_PIP_3305	DMM_JUN_3138	DMM_846	1,898.6678	1,000.0000	0.3000	94.0327	0.1197	0.0264	0.0139	Open
DMM_PIP_2785	DMM_JUN_3138	DMAV182	51.7184	400.0000	0.3000	14.1912	0.1129	0.0020	0.0388	Open
DMM_PIP_2441	DMM_JUN_2744	DMM_JUN_3138	1,181.4428	1,000.0000	0.3000	108.2603	0.1378	0.0214	0.0181	Open
P523	DMAV182	DMM_JUN_3384	55.2520	400.0000	0.3000	14.1912	0.1129	0.0021	0.0388	Open
DMM_PIP_3309	DMM_JUN_3142	DMM_JUN_2746	749.4691	1,000.0000	0.3000	-184.3627	0.2347	0.0369	0.0492	Open
DMM_PIP_2443	DMM_JUN_3142	DMM_JUN_3386	32.7767	400.0000	0.3000	75.8134	0.6033	0.0303	0.9233	Open
DMM_PIP_2437	DMM_JUN_2744	DMM_JUN_3142	15.1349	1,000.0000	0.3000	-108.4108	0.1380	0.0003	0.0181	Open
DMM_PIP_2439	DMM_JUN_2746	DMM_JUN_3148	1,902.8049	1,000.0000	0.3000	-184.5698	0.2350	0.0938	0.0493	Open
DMM_PIP_3317	DMM_JUN_3148	DMM_JUN_3146	65.6665	400.0000	0.3000	58.7719	0.4677	0.0371	0.5649	Open
DMM_PIP_3315	DMM_JUN_3148	DMM_JUN_2762	1,588.9784	1,000.0000	0.3000	-243.9591	0.3106	0.1331	0.0838	Open
DMM_PIP_2501	DMM_JUN_2762	DMM_JUN_3388	122.5552	400.0000	0.3000	26.6028	0.2117	0.0153	0.1250	Open
DMM_PIP_2497	DMM_JUN_2762	DMM_JUN_2764	656.1777	1,000.0000	0.3000	-284.1534	0.3618	0.0736	0.1121	Open
P359	DMM_JUN_2762	DMAV113	22.7184	197.3000	0.1000	13.4946	0.4414	0.0239	1.0502	Open
P361	DMAV113	DMM_2002	63.9446	197.3000	0.1000	13.4946	0.4414	0.0672	1.0504	Open
DMM_PIP_2511	DMM_JUN_2764	DMM_JUN_3150	25.7386	400.0000	0.3000	75.8697	0.6038	0.0238	0.9246	Open
DMM_PIP_2499	DMM_JUN_2764	DMM_JUN_2766	139.0197	1,000.0000	0.3000	-360.0467	0.4584	0.0246	0.1767	Open
DMM_PIP_2505	DMM_JUN_2766	DMM_JUN_2768	911.8123	1,000.0000	0.3000	-360.3803	0.4589	0.1614	0.1770	Open
DMM_PIP_3323	DMM_JUN_2768	DMM_JUN_3152	14.3290	400.0000	0.3000	68.8242	0.5477	0.0110	0.7657	Open
DMM_PIP_2507	DMM_JUN_2768	DMM_JUN_2982	1,369.2132	1,000.0000	0.3000	-429.2399	0.5465	0.3396	0.2480	Open
DMM_PIP_3071	DMM_VAL_8194	DMM_JUN_2982	7.3654	1,000.0000	0.3000	429.2771	0.5466	0.0018	0.2482	Open
DMM_PIP_3061	DMM_JUN_2986	DMM_VAL_8194	15.5373	1,000.0000	0.3000	429.2771	0.5466	0.0039	0.2479	Open
CT_OUTLET	DMM_VAL_8192	DMM_JUN_2986	9.2608	1,600.0000	0.3000	1,217.4127	0.6055	0.0016	0.1718	Open
DMM_PIP_3067	ENTRAL_TANK_P	DMM_VAL_8192	11.2199	1,600.0000	0.3000	1,217.4127	0.6055	0.0019	0.1712	Open
P821	J58	ENTRAL_TANK_P	4.7147	1,600.0000	0.3000	1,217.4127	0.6055	0.0008	0.1714	Open
P-33	DMM_JUN_2946	V_CENTRAL_TAN	47.3153	1,600.0000	0.3000	1,999.9859	0.9947	0.0213	0.4506	Open

ID	From Node	To Node	Length (m)	Diameter (mm)	Roughness (mm)	Flow (L/s)	Velocity (m/s)	Headloss (m)	HL/1000 (m/k-m)	Status
P-34	CV_CENTRAL_TAN		12.3051	1,600.0000	0.3000	1,999.9859	0.9947	0.0055	0.4507	Open
DMM_PIP_2977	DMM_JUN_2944	DMM_JUN_2948	296.6949	1,600.0000	0.3000	1,999.9857	0.9947	0.1337	0.4507	Open
DMM_PIP_2975	DMM_JUN_2942	DMM_JUN_2944	2,163.0970	1,600.0000	0.3000	1,999.9857	0.9947	0.9749	0.4507	Open
DMM_PIP_2973	DMM_JUN_2942	DMM_JUN_2940	983.4080	1,600.0000	0.3000	-1,999.9857	0.9947	0.4432	0.4507	Open
DMM_PIP_2971	DMM_JUN_2938	DMM_JUN_2940	419.0785	1,600.0000	0.3000	1,999.9857	0.9947	0.1889	0.4507	Open
DMM_PIP_2969	DMM_JUN_2936	DMM_JUN_2938	760.6230	1,600.0000	0.3000	1,999.9857	0.9947	0.3428	0.4507	Open
DMM_PIP_2967	DMM_JUN_2934	DMM_JUN_2936	962.3452	1,600.0000	0.3000	1,999.9857	0.9947	0.4337	0.4507	Open
DMM_PIP_2965	DMM_JUN_2932	DMM_JUN_2934	1,726.5588	1,600.0000	0.3000	1,999.9857	0.9947	0.7781	0.4507	Open
DMM_PIP_2963	DMM_JUN_2930	DMM_JUN_2932	3,079.9867	1,600.0000	0.3000	1,999.9857	0.9947	1.3881	0.4507	Open
DMM_PIP_2961	DMM_JUN_3280	DMM_JUN_2930	328.4499	1,600.0000	0.3000	1,999.9857	0.9947	0.1480	0.4507	Open
DMM_PIP_3527	DMM_JUN_3280	DMM_JUN_2926	95.3555	1,600.0000	0.3000	-4,199.9700	2.0889	0.1849	1.9390	Open
DMM_PIP_1271	DMM_JUN_2428	DMM_JUN_3280	34.8838	1,400.0000	0.3000	-2,199.9845	1.4291	0.0376	1.0775	Open
DMM_PIP_1193	DMM_VAL_8024	DMM_JUN_2428	13.6552	1,400.0000	0.3000	-2,199.9845	1.4291	0.0147	1.0776	Open
DMM_5089	DMM_19836	DMM_VAL_8024	13.3400	1,400.0000	0.3000	-2,199.9845	1.4291	0.0144	1.0773	Open
P-35	DMM_19836	FCV_TANK55	6.9463	1,600.0000	0.3000	2,199.9845	1.0942	0.0038	0.5437	Open
P-36	FCV_TANK55	J62	7.8302	1,600.0000	0.3000	2,199.9845	1.0942	0.0043	0.5435	Open
DMM_PIP_3517	DMM_JUN_3276	IEW_TANK_55_PS	71.6074	1,400.0000	0.3000	728.2600	0.4731	0.0089	0.1249	Open
DMM_PIP_2659	MEW_TANK_55_PS	DMM_JUN_3278	21.5346	1,400.0000	0.3000	728.2600	0.4731	0.0027	0.1250	Open
DMM_PIP_3521	DMM_JUN_3278	DMM_1160	63.0371	1,400.0000	0.3000	705.7282	0.4585	0.0074	0.1175	Open
P23	DMM_JUN_3174	DMM_1160	4.4425	1,000.0000	0.3000	0.0000	0.0000	0.0000	0.0000	Closed
DMM_PIP_2571(2)	DMM_JUN_2794	21665-B	1,558.0150	1,000.0000	0.3000	-218.3810	0.2781	0.1057	0.0678	Open
DMM_VAL_8038_U	DMM_1160	DMM_VAL_8038	3.0752	1,000.0000	0.3000	218.3810	0.2781	0.0002	0.0681	Open
DMM_VAL_8038_D	DMM_VAL_8038	21665-B	3.4913	1,000.0000	0.3000	218.3810	0.2781	0.0002	0.0679	Open
DMM_PIP_2249	DMM_JUN_2678	DMM_JUN_2794	674.3797	1,000.0000	0.3000	-212.4914	0.2706	0.0434	0.0644	Open
DMM_PIP_2573	DMM_JUN_2794	DMM_JUN_2796	746.3929	400.0000	0.3000	1.9891	0.0158	0.0009	0.0012	Open
DMM_PIP_2577(1)	DMM_JUN_2796	PRV-8	178.8718	400.0000	0.3000	1.9730	0.0157	0.0002	0.0011	Open
DMM_PIP_2577(2)	PRV-8	DMM_JUN_3176	40.6283	400.0000	0.3000	1.9730	0.0157	0.0000	0.0011	Open
DMM_PIP_2255(1)	DMM_JUN_2678	PRV-7	56.1034	400.0000	0.3000	9.1332	0.0727	0.0010	0.0173	Open
DMM_PIP_2255(2)	PRV-7	DMM_JUN_3418	18.6748	400.0000	0.3000	9.1332	0.0727	0.0003	0.0172	Open
DMM_PIP_2251	DMM_JUN_2680	DMM_JUN_2678	1,207.9848	1,000.0000	0.3000	-203.3516	0.2589	0.0715	0.0592	Open
DMM_PIP_2567	DMM_JUN_2790	DMM_JUN_2680	257.8840	1,000.0000	0.3000	-203.3342	0.2589	0.0153	0.0592	Open
DMM_PIP_2253	DMM_JUN_2680	DMM_6709	43.9786	400.0000	0.3000	0.0000	0.0000	0.0000	0.0000	Closed
DMM_PIP_2569	DMM_JUN_2790	DMM_JUN_3182	28.9899	400.0000	0.3000	0.0000	0.0000	0.0000	0.0000	Closed
DMM_PIP_3249(1)	DMM_JUN_2790	J-23	1,069.3960	1,000.0000	0.3000	202.8632	0.2583	0.0631	0.0590	Open
DMM_PIP_2597	DMM_JUN_2788	DMM_JUN_3186	1,416.0236	1,000.0000	0.3000	192.4618	0.2451	0.0756	0.0534	Open





ID	From Node	To Node	Length	Diameter	Roughness	Flow	Velocity	Headloss	HL/1000	Status
	DMM ILINI 2799	DMAV111	(m) 35.9430	(mm) 400.0000	(mm)	(L/s) 10.3003	(m/s) 0.0820	(m) 0.0008	(m/k-m) 0.0216	0000
DMM_PIP_2565 P-43	DMM_JUN_2788 J-23	PRV-5	11.6063	1,000.0000	0.3000	202.8632	0.0820	0.0008	0.0216	Open Open
P-43 P-44	PRV-5	DMM JUN 2788	11.6103	1,000.0000	0.3000	202.8632	0.2583	0.0007	0.0589	Open
DMM_PIP_2565A	DMAV111	DMM_6915	217.6934	400.0000	0.3000	10.3003	0.0820	0.0007	0.0216	Oper
DMM_PIP_3359	DMM_JUN_3186	DMAV108	2.085.5044	400.0000	0.3000	6.5979	0.0525	0.0201	0.0096	Oper
DMM_PIP_2259	DMM JUN 2684	DMM_JUN_3186	1,204.0585	1,000.0000	0.3000	-185.7942	0.2366	0.0601	0.0499	Oper
DMM_PIP_2263	DMM_JUN_2684	DMAV109	17.7265	400.0000	0.3000	11.3446	0.0903	0.0005	0.0257	Oper
DMM PIP 2257	DMM JUN 2682	DMM JUN 2684	619.1663	1,000.0000	0.3000	-174.4104	0.2221	0.0274	0.0443	Oper
DMM_PIP_2263A	DMAV109	DMM JUN 3188	53.9229	400.0000	0.3000	11.3446	0.0903	0.0014	0.0257	Oper
DMM_PIP_2261	DMM JUN 2682	DMAV110	13.2038	400.0000	0.3000	4.3006	0.0342	0.0001	0.0046	Oper
DMM_PIP_2265	DMM_JUN_2682	DMM_JUN_3190	909.0325	1,000.0000	0.3000	170.0430	0.2165	0.0384	0.0422	Oper
DMM_PIP_2261A	DMAV110	DMM 5853	267.3479	400.0000	0.3000	4.3006	0.0342	0.0012	0.0045	Oper
DMM 12544	DMM_JUN_1186	DMM_5853	229.3976	197.3000	0.3000	-1.5033	0.0492	0.0049	0.0211	Oper
DMM_PIP_2267	DMM_JUN_3192	DMAV107	26.6324	400.0000	0.3000	12.1895	0.0970	0.0008	0.0293	Oper
DMM_PIP_2267A	DMAV107	DMM_JUN_3194	91.9454	400.0000	0.3000	12.1895	0.0970	0.0007	0.0293	Oper
DMM_PIP_2591	DMM_JUN_2802	DMAV106	36.8191	400.0000	0.3000	5.8608	0.0466	0.0003	0.0078	Oper
DMM_PIP_2591A	DMAV106	DMM_5301	105.8917	400.0000	0.3000	5.8608	0.0466	0.0008	0.0078	Oper
25452	197	DMAV102	9.1541	400.0000	0.3000	5.4115	0.0400	0.0001	0.0066	Oper
25452A	DMAV102	10789	20.7717	400.0000	0.3000	5.4115	0.0431	0.0001	0.0067	Oper
	10800	5447	7.3498	400.0000	0.3000	1.1005	0.0088	0.0000	0.0006	Oper
25458 25450	196	DMAV103	2.4820	400.0000	0.3000	2.1424	0.0088	0.0000	0.0008	Oper
25450 25450A	DMAV103	10795	5.7802	400.0000	0.3000	2.1424	0.0170	0.0000	0.0019	Oper
	DMAV103 DMAV108	DMM_JUN_3184	102.6905	400.0000	0.3000	6.5979	0.0525	0.0000	0.0016	Oper
DMM_PIP_3359A		DMM_JUN_3184 DMAV179		400.0000	0.3000	44.1121	0.0525	0.0010	0.3265	
DMM_PIP_2821	DMM_3337 DMAV179	DMAV179 DMM JUN 3320	4.7012	400.0000	0.3000					Oper
P517			9.3109			44.1121 280.6509	0.3510	0.0030	0.3257	Oper
DMM_PIP_3073	DMM_VAL_8196	DMM_JUN_2984	13.4179	1,000.0000	0.3000			0.0015		Oper
DMM_PIP_2203	DMM_JUN_2986	DMM_VAL_8196	8.9744	1,000.0000		280.6509	0.3573	0.0010	0.1093	Oper
DMM_PIP_3063	DMM_JUN_2984	DMM_JUN_2776	854.3405	1,000.0000	0.3000	280.5240	0.3572	0.0935	0.1094	Oper
DMM_PIP_2535	DMM_JUN_2776	DMM_JUN_2778	499.8027	1,000.0000	0.3000	279.8383	0.3563	0.0544	0.1089	Oper
DMM_PIP_2541	DMM_JUN_2778	DMM_JUN_3158	15.9318	400.0000	0.3000	64.1967	0.5109	0.0107	0.6694	Oper
DMM_PIP_2537	DMM_JUN_2778	DMM_JUN_2884	46.5671	1,000.0000	0.3000	215.3346	0.2742	0.0031	0.0660	Oper
DMM_PIP_2817	DMM_JUN_2884	DMM_JUN_2780	1,581.9928	1,000.0000	0.3000	214.4125	0.2730	0.1036	0.0655	Oper
DMM_PIP_2545	DMM_JUN_2780	DMM_JUN_3160	17.7056	400.0000	0.3000	39.4772	0.3142	0.0047	0.2637	Oper
DMM_PIP_2543	DMM_JUN_2780	DMM_JUN_2782	806.1272	1,000.0000	0.3000	174.9211	0.2227	0.0359	0.0445	
P409	DMM_JUN_2780 DMAV133	DMM_JUN_2782 DMM_17921	806.1272 37.9889	1,000.0000 197.3000	0.3000	174.9211 0.0000	0.2227	0.0359	0.0445	
										Oper Oper
P409	DMAV133	DMM_17921	37.9889 Length	197.3000 Diameter	0.1000 Roughness	0.0000 Flow	0.0000 Velocity	0.0000 Headloss	0.0000 HL/1000	Oper
P409	DMAV133 From Node	DMM_17921 To Node	37.9889 Length (m)	197.3000 Diameter (mm)	0.1000 Roughness (mm)	0.0000 Flow (L/s)	0.0000 Velocity (m/s)	0.0000 Headloss (m)	0.0000 HL/1000 (m/k-m)	Oper
P409	DMAV133 From Node DMM_1813	DMM_17921 To Node DMAV133	37.9889 Length (m) 30.8326	197.3000 Diameter (mm) 197.3000	0.1000 Roughness (mm) 0.1000	0.0000 Flow (L/s) 0.0000	0.0000 Velocity (m/s) 0.0000	0.0000 Headloss (m) 0.0000	0.0000 HL/1000 (m/k-m) 0.0000	Oper Status Open
P409 ID P407 DMM_PIP_2549	DMAV133 From Node DMM_1813 DMM_JUN_2782	DMM_17921 To Node DMAV133 DMM_JUN_3162	37.9889 Length (m) 30.8326 37.9330	197.3000 Diameter (mm) 197.3000 400.0000	0.1000 Roughness (mm) 0.1000 0.3000	0.0000 Flow (L/s) 0.0000 47.7220	0.0000 Velocity (m/s) 0.0000 0.3798	0.0000 Headloss (m) 0.0000 0.0144	0.0000 HL/1000 (m/k-m) 0.0000 0.3787	Oper Status Open Open
P409 ID P407 DMM_PIP_2549 DMM_PIP_3717	DMAV133 From Node DMM_1813 DMM_JUN_2782 DMM_JUN_3416	DMM_17921 To Node DMAV133 DMM_JUN_3162 DMM_JUN_3164	37.9889 Length (m) 30.8326 37.9330 313.5694	197.3000 Diameter (mm) 197.3000 400.0000 1,000.0000	0.1000 Roughness (mm) 0.1000 0.3000 0.3000	0.0000 Flow (L/s) 0.0000 47.7220 49.5221	0.0000 Velocity (m/s) 0.0000 0.3798 0.0631	0.0000 Headloss (m) 0.0000 0.0144 0.0013	0.0000 HL/1000 (m/k-m) 0.0000 0.3787 0.0043	Oper Status Open Open Open
P409 ID P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3337	DMAV133 From Node DMM_1813 DMM_JUN_2782 DMM_JUN_3416 DMM_JUN_3416	DMM_17921 To Node DMAV133 DMM_JUN_3162 DMM_JUN_3164 DMM_JUN_3414	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183	197.3000 Diameter (mm) 197.3000 400.0000 1,000.0000 400.0000	0.1000 Roughness (mm) 0.1000 0.3000 0.3000 0.3000	0.0000 Flow (L/s) 0.0000 47.7220 49.5221 77.5379	0.0000 Velocity (m/s) 0.0000 0.3798 0.0631 0.6170	0.0000 Headloss (m) 0.0000 0.0144 0.0013 0.0474	0.0000 HL/1000 (m/k-m) 0.0000 0.3787 0.0043 0.9643	Open Open Open Open Open
P409 ID P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3337 DMM_PIP_2547	DMAV133 From Node DMM_1813 DMM_JUN_2782 DMM_JUN_3416 DMM_JUN_3416 DMM_JUN_2782	DMM_17921 To Node DMAV133 DMM_JUN_3162 DMM_JUN_3164 DMM_JUN_3414 DMM_JUN_3416	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835	197.3000 Diameter (mm) 197.3000 400.0000 1,000.0000 400.0000 1,000.0000	0.1000 Roughness (mm) 0.1000 0.3000 0.3000 0.3000 0.3000	0.0000 Flow (L/s) 0.0000 47.7220 49.5221 77.5379 127.1123	0.0000 Velocity (m/s) 0.0000 0.3798 0.0631 0.6170 0.1618	0.0000 Headloss (m) 0.0000 0.0144 0.0013 0.0474 0.0097	0.0000 HL/1000 (m/k-m) 0.0000 0.3787 0.0043 0.9643 0.0244	Open Open Open Open Open Open
P409 ID P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3337 DMM_PIP_2547 P381	DMAV133 From Node DMM_1813 DMM_JUN_2782 DMM_JUN_3416 DMM_JUN_3416 DMM_JUN_2782 DMAV121	DMM_17921 To Node DMAV133 DMM_JUN_3162 DMM_JUN_3164 DMM_JUN_3414 DMM_JUN_3416 DMM_12447	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475	197.3000           Diameter (mm)           197.3000           400.0000           1,000.0000           400.0000           1,000.0000           260.4000	0.1000 Roughness (mm) 0.1000 0.3000 0.3000 0.3000 0.3000 0.3000 0.1000	0.0000 Flow (L/s) 0.0000 47.7220 49.5221 77.5379 127.1123 0.0000	0.0000 Velocity (m/s) 0.0000 0.3798 0.0631 0.6170 0.1618 0.0000	0.0000 Headloss (m) 0.0000 0.0144 0.0013 0.0474 0.0097 0.0000	0.0000 HL/1000 (m/k-m) 0.0000 0.3787 0.0043 0.9643 0.0244 0.0000	Open Open Open Open Open Open Open
P409 ID P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3337 DMM_PIP_2547 P381 P379	DMAV133 From Node DMM_1813 DMM_UUN_2782 DMM_JUN_3416 DMM_JUN_3416 DMM_JUN_2782 DMAV121 DMM_JUN_3164	DMM_17921 To Node DMAV133 DMM_JUN_3162 DMM_JUN_3164 DMM_JUN_3414 DMM_JUN_3416 DMM_12447 DMM_121	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322	197.3000           Diameter (mm)           197.3000           400.0000           1,000.0000           1,000.0000           1,000.0000           260.4000           260.4000	0.1000 Roughness (mm) 0.1000 0.3000 0.3000 0.3000 0.3000 0.1000 0.1000	0.0000 Flow (L/s) 0.0000 47.7220 49.5221 77.5379 127.1123 0.0000 0.0000	0.0000 Velocity (m/s) 0.0000 0.3798 0.0631 0.6170 0.1618 0.0000 0.0000	0.0000 Headloss (m) 0.0000 0.0144 0.0013 0.0474 0.0097 0.0000 0.0000	0.0000 HL/1000 (m/k-m) 0.0000 0.3787 0.0043 0.9643 0.0244 0.0000 0.0000	Open Open Open Open Open Open Open Open
P409 ID P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3337 DMM_PIP_2647 P381 P379 DMM_PIP_3201	DMAV133 From Node DMM_1813 DMM_JUN_2782 DMM_JUN_3416 DMM_JUN_3416 DMM_JUN_2782 DMAV121 DMM_JUN_3164	DMM_17921           To Node           DMAV133           DMM_JUN_3162           DMM_JUN_3164           DMM_JUN_3416           DMM_JUN_3414           DMM_12447           DMAV121           DMM_JUN_3312	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372	197.3000           Diameter (mm)           197.3000           400.0000           1,000.0000           400.0000           260.4000           260.4000           1,000.0000	0.1000 Roughness (mm) 0.1000 0.3000 0.3000 0.3000 0.3000 0.1000 0.1000 0.3000	0.0000 Flow (L/s) 0.0000 47.7220 49.5221 77.5379 127.1123 0.0000 0.0000 49.4981	0.0000 Velocity (m/s) 0.0000 0.3798 0.0631 0.6170 0.1618 0.0000 0.0000 0.0630	0.0000 Headloss (m) 0.0000 0.0144 0.0013 0.0474 0.0097 0.0000 0.0000 0.0000 0.0023	0.0000 HL/1000 (m/k-m) 0.0000 0.3787 0.0043 0.9643 0.0244 0.0000 0.0000 0.0000	Open Open Open Open Open Open Open Open
P409 ID P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3337 DMM_PIP_2547 P381 P379 DMM_PIP_3201 DMM_PIP_3587	DMAV133 From Node DMM_1813 DMM_JUN_2782 DMM_JUN_3416 DMM_JUN_3416 DMM_JUN_2782 DMAV121 DMM_JUN_3164 DMM_JUN_3120	DMM_17921           To Node           DMAV133           DMM_JUN_3162           DMM_JUN_3164           DMM_JUN_3416           DMM_12447           DMAV121           DMM_JUN_3312           DMM_JUN_2600	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955	197.3000           Diameter (mm)           197.3000           400.0000           1,000.0000           400.0000           260.4000           260.4000           1,000.0000           400.0000	0.1000 Roughness (mm) 0.1000 0.3000 0.3000 0.3000 0.1000 0.1000 0.3000 0.3000 0.3000 0.3000	0.0000 Flow (L/s) 0.0000 47.7220 49.5221 77.5379 127.1123 0.0000 0.0000 49.4981 9.5039	0.0000 Velocity (m/s) 0.0000 0.3798 0.0631 0.6170 0.1618 0.0000 0.0000 0.0000 0.0630 0.0756	0.0000 Headloss (m) 0.0000 0.0144 0.0013 0.0474 0.0097 0.0000 0.0000 0.0000 0.0023 0.0002	0.0000 HL/1000 (m/k-m) 0.0000 0.3787 0.0043 0.9643 0.0244 0.0000 0.0000 0.0000 0.0003 0.0043 0.0188	Status Open Open Open Open Open Open Open Open
P409 ID P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3337 DMM_PIP_2547 P381 P379 DMM_PIP_3201 DMM_PIP_3587 DMM_PIP_3579	DMAV133 From Node DMM_1813 DMM_JUN_2782 DMM_JUN_3416 DMM_JUN_3416 DMM_12782 DMAV121 DMM_12N_3164 DMM_JUN_3312 DMM_JUN_3312	DMM_17921           To Node           DMAV133           DMM_JUN_3162           DMM_JUN_3164           DMM_JUN_3416           DMM_12447           DMAV121           DMM_JUN_3312           DMM_JUN_3312           DMM_JUN_3316	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 1,192.9900	197.3000           Diameter (mm)           197.3000           400.0000           1,000.0000           400.0000           1,000.0000           260.4000           260.4000           1,000.0000           400.0000           1,000.0000           1,000.0000	0.1000 Roughness (mm) 0.1000 0.3000 0.3000 0.3000 0.1000 0.1000 0.3000 0.3000 0.3000 0.3000 0.3000	0.0000 Flow (L/s) 0.0000 47.7220 49.5221 77.5379 127.1123 0.0000 0.0000 49.4981 9.5039 39.8344	0.0000 Velocity (m/s) 0.0000 0.3798 0.0631 0.6170 0.1618 0.0000 0.0000 0.0000 0.0630 0.0756 0.0507	0.0000 Headloss (m) 0.0000 0.0144 0.0013 0.0474 0.0097 0.0000 0.0000 0.0000 0.0002 0.0002 0.0034	0.0000 HL/1000 (m/k-m) 0.0000 0.3787 0.0043 0.09643 0.09643 0.09643 0.0024 0.0000 0.0000 0.0000 0.00043 0.0188 0.0029	Status Open Open Open Open Open Open Open Open
P409 ID P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3337 DMM_PIP_3337 DMM_PIP_2547 P381 P379 DMM_PIP_3201 DMM_PIP_3587 DMM_PIP_3579 P415	DMAV133 From Node DMM_1813 DMM_JUN_2782 DMM_JUN_3416 DMM_JUN_3416 DMM_JUN_3782 DMAV121 DMM_JUN_3164 DMM_JUN_3312 DMM_JUN_3312 DMM_3191	DMM_17921           To Node           DMAV133           DMM_JUN_3162           DMM_JUN_3164           DMM_JUN_3416           DMM_12447           DMAV121           DMM_JUN_3312           DMM_JUN_3312           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 1,192.9900 30.0804	197.3000           Diameter (mm)           197.3000           400.0000           1,000.0000           400.0000           260.4000           1,000.0000           400.0000           1,000.0000           1,000.0000           1,000.0000           1,000.0000           1,000.0000           260.4000           1,000.0000           276.6000	0.1000 Roughness (mm) 0.1000 0.3000 0.3000 0.3000 0.1000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	0.0000 Flow (L/s) 0.0000 47.7220 49.5221 77.5379 127.1123 0.0000 0.0000 49.4981 9.5039 39.8344 25.6907	0.0000 Velocity (m/s) 0.0000 0.3798 0.0631 0.6170 0.1618 0.0000 0.0000 0.0630 0.0756 0.0507 0.4275	0.0000 Headloss (m) 0.0000 0.0144 0.0013 0.0474 0.0097 0.0000 0.0000 0.0000 0.0002 0.0002 0.0023 0.0002 0.0034 0.0196	0.0000 HL/1000 (m/k-m) 0.0000 0.3787 0.0043 0.043 0.0244 0.0000 0.0000 0.0000 0.0000 0.0043 0.0188 0.0029 0.6529	Open Status Open Open Open Open Open Open Open Open
P409 ID P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3337 DMM_PIP_3337 DMM_PIP_2547 P379 DMM_PIP_3201 DMM_PIP_3587 DMM_PIP_3579 P415 P419	DMAV133 From Node DMM_1813 DMM_JUN_2782 DMM_JUN_3416 DMM_JUN_3416 DMM_JUN_3164 DMM_JUN_3164 DMM_JUN_312 DMM_JUN_3312 DMM_JUN_3312 DMM_JUN_3312	DMM_17921 To Node DMAV133 DMM_JUN_3162 DMM_JUN_3164 DMM_JUN_3416 DMM_12447 DMAV121 DMM_JUN_3312 DMM_JUN_3312 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 1,192.9900 30.0804 56.3494	197.3000           Diameter (mm)           197.3000           400.0000           1,000.0000           400.0000           1,000.0000           260.4000           260.4000           1,000.0000           400.0000           260.4000           1,000.0000           260.4000           1,000.0000           276.6000           276.6000	0.1000 Roughness (mm) 0.1000 0.3000 0.3000 0.3000 0.3000 0.1000 0.1000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0	0.0000 Flow (L/s) 0.0000 47.7220 49.5221 77.5379 127.1123 0.0000 0.0000 49.4981 9.5039 39.8344 25.6907 25.6907	0.0000 Velocity (m/s) 0.0000 0.3798 0.0631 0.6170 0.1618 0.0000 0.0000 0.0630 0.0756 0.0507 0.4275 0.4275	0.0000 Headloss (m) 0.0000 0.0144 0.0013 0.0474 0.0097 0.0000 0.0000 0.00023 0.0002 0.0002 0.0034 0.0196 0.0368	0.0000 HL/1000 (m/k-m) 0.0000 0.3787 0.0043 0.0244 0.0000 0.0000 0.0000 0.0003 0.0043 0.0188 0.0029 0.6529 0.6529	Open Status Open Open Open Open Open Open Open Open
P409 ID P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3377 DMM_PIP_32547 P381 P379 DMM_PIP_3201 DMM_PIP_3587 DMM_PIP_3587 DMM_PIP_3579 P415 P419 DMM_PIP_3343	DMAV133 From Node DMM_1813 DMM_JUN_2782 DMM_JUN_3416 DMM_JUN_3416 DMM_JUN_3416 DMM_JUN_3164 DMM_JUN_3312 DMM_JUN_3312 DMM_3191 DMAV136 DMM_JUN_3316	DMM_17921 To Node DMAV133 DMM_JUN_3162 DMM_JUN_3164 DMM_JUN_3414 DMM_12447 DMM_12447 DMAV121 DMM_JUN_3312 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3318	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 1,192.9900 30.0804 56.3494 3.4290	197.3000           Diameter (mm)           197.3000           400.0000           1,000.0000           400.0000           1,000.0000           260.4000           260.4000           1,000.0000           400.0000           1,000.0000           260.4000           1,000.0000           276.6000           276.6000           400.0000	0.1000  Roughness (mm) 0.1000 0.3000 0.3000 0.3000 0.3000 0.1000 0.1000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.1000 0.1000 0.1000 0.1000 0.3000 0.1000 0.3000 0.1000 0.3000 0.1000 0.3000 0.1000 0.3000 0.3000 0.1000 0.3000 0.1000 0.3000 0.1000 0.3000 0.1000 0.3000 0.1000 0.3000 0.1000 0.3000 0.1000 0.1000 0.3000 0.1000 0.1000 0.3000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000	0.0000 Flow (L/s) 0.0000 47.7220 49.5221 77.5379 127.1123 0.0000 0.0000 49.4981 9.5039 39.8344 25.6907 25.6907 24.0189	0.0000 Velocity (m/s) 0.0000 0.3798 0.0631 0.6170 0.1618 0.0000 0.0630 0.000630 0.0756 0.0507 0.4275 0.4275 0.1911	0.0000 Headloss (m) 0.0000 0.0144 0.0013 0.0474 0.0097 0.0000 0.0000 0.0000 0.00023 0.0002 0.0034 0.0196 0.0368 0.0004	0.0000 HL/1000 (m/k-m) 0.0000 0.3787 0.0043 0.0244 0.0000 0.0043 0.0000 0.0000 0.00043 0.0188 0.0029 0.6529 0.6529 0.1031	Open Status Open Open Open Open Open Open Open Open
P409 ID P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3337 DMM_PIP_2547 P381 P379 DMM_PIP_3201 DMM_PIP_3587 DMM_PIP_3579 P415 P419 DMM_PIP_3343 DMM_PIP_3583	DMAV133 From Node DMM_1813 DMM_JUN_2782 DMM_JUN_3416 DMM_JUN_3416 DMM_JUN_2782 DMAV121 DMM_JUN_3164 DMM_JUN_3312 DMM_JUN_3312 DMM_JUN_3312 DMM_JUN_3316 DMM_JUN_3316	DMM_17921 To Node DMAV133 DMM_JUN_3162 DMM_JUN_3164 DMM_JUN_3416 DMM_JUN_3416 DMM_12447 DMM_12447 DMAV121 DMM_JUN_3312 DMM_JUN_3316 DMM_JUN_3316 DMM_1781 DMM_1781 DMM_JUN_3318	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 1,192.9900 30.0804 56.3494 3.4290 839.1509	197.3000           Diameter (mm)           197.3000           400.0000           1,000.0000           400.0000           1,000.0000           260.4000           260.4000           1,000.0000           1,000.0000           260.4000           260.4000           276.6000           276.6000           276.6000           1,000.0000           1,000.0000	0.1000  Roughness (mm) 0.1000 0.3000 0.3000 0.3000 0.1000 0.1000 0.3000 0.3000 0.3000 0.3000 0.3000 0.1000 0.1000 0.1000 0.1000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	0.0000 Flow (L/s) 0.0000 47.7220 49.5221 77.5379 127.1123 0.0000 0.0000 49.4981 9.5039 39.8344 25.6907 25.6907 24.0189 15.8098	0.0000 Velocity (m/s) 0.0000 0.3798 0.0631 0.6170 0.1618 0.0000 0.0000 0.0630 0.0630 0.0507 0.4275 0.4275 0.4275	0.0000           Headloss (m)           0.0000           0.0144           0.0013           0.0474           0.0097           0.0000           0.0023           0.0023           0.0034           0.0196           0.0368           0.0004	0.0000 HL/1000 (m/k-m) 0.0000 0.3787 0.0043 0.09643 0.0244 0.0000 0.0000 0.0043 0.0188 0.0029 0.6529 0.6529 0.1031 0.0005	Open Status Open Open Open Open Open Open Open Open
P409 ID P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3337 DMM_PIP_2547 P381 P379 DMM_PIP_3201 DMM_PIP_3201 DMM_PIP_3587 DMM_PIP_3579 P415 P419 DMM_PIP_3583 DMM_PIP_3583 DMM_PIP_2819	DMAV133 From Node DMM_1813 DMM_UN_2782 DMM_JUN_3416 DMM_JUN_3416 DMM_JUN_2782 DMAV121 DMM_JUN_3164 DMM_JUN_3312 DMM_3191 DMAV136 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316	DMM_17921 To Node DMAV133 DMM_JUN_3162 DMM_JUN_3164 DMM_JUN_3414 DMM_JUN_3414 DMM_12447 DMAV121 DMM_12447 DMM_12447 DMM_1210 DMM_13312 DMM_JUN_3316 DMM_1781 DMM_1781 DMM_JUN_3314 DMM_JUN_3314	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 1,192.9900 30.0804 56.3494 3.4290 839.1509 4.5805	197.3000           Diameter (mm)           197.3000           400.0000           1,000.0000           1,000.0000           260.4000           260.4000           1,000.0000           400.0000           1,000.0000           260.4000           260.4000           276.6000           400.0000           1,000.0000           276.6000           400.0000           1,000.0000           400.0000           400.0000	0.1000  Roughness (mm) 0.1000 0.3000 0.3000 0.3000 0.3000 0.1000 0.3000 0.3000 0.3000 0.3000 0.3000 0.1000 0.3000 0.1000 0.1000 0.3000 0.1000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	0.0000 Flow (L/s) 0.0000 47.7220 49.5221 77.5379 127.1123 0.0000 0.0000 49.4981 9.5039 39.8344 25.6907 25.6907 24.0189 15.8098 0.0000	0.0000 Velocity (m/s) 0.0000 0.3798 0.0631 0.6170 0.0630 0.0000 0.0630 0.0756 0.0507 0.4275 0.4275 0.4275 0.1911 0.0201 0.0000	0.0000           Headloss (m)           0.0000           0.0144           0.0013           0.0097           0.0000           0.0002           0.0023           0.0034           0.0196           0.0368           0.0004           0.0005           0.0000	0.0000 HL/1000 (m/k-m) 0.0000 0.3787 0.0043 0.0244 0.0000 0.0244 0.0000 0.0244 0.0000 0.0244 0.0000 0.0243 0.02529 0.6529 0.6529 0.1031 0.0005 0.0000	Open Status Open Open Open Open Open Open Open Open
P409 ID P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3337 DMM_PIP_2547 P381 P379 DMM_PIP_3587 DMM_PIP_3587 DMM_PIP_3579 P415 P419 DMM_PIP_3583 DMM_PIP_3583 DMM_PIP_3583 DMM_PIP_3583	DMAV133 From Node DMM_1813 DMM_JUN_2782 DMM_JUN_3416 DMM_JUN_3416 DMM_JUN_342782 DMM_JUN_3164 DMM_JUN_3164 DMM_JUN_3312 DMM_JUN_3312 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_34 DMM_JUN_34 DMM_JUN_34 DMM_JUN_34 DMM_JUN_34 DMM_JUN_34 DMM_JUN_34 DMM_JUN_34 DMM_JUN_34 DMM_JUN_34 DMM_JUN_34 DMM_JUN_34 DMM_JUN_34 DMM_JUN_34 DMM_JUN_34 DMM_JUN_34 DMM_JUN_34 DMM_JUN_34 DMM_JUN	DMM_17921           To Node           DMAV133           DMM_JUN_3162           DMM_JUN_3164           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3312           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3318           DMM_JUN_3314           DMAV177           DMM_JUN_3154	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 1,192.9900 30.0804 56.3494 56.3494 56.3494 56.3494 56.3494 56.3494 56.3494 56.3494 56.3494 5.1596	197.3000           Diameter (mm)           197.3000           400.0000           1,000.0000           1,000.0000           260.4000           260.4000           1,000.0000           400.0000           260.4000           260.4000           276.6000           276.6000           1,000.0000           400.0000           1,000.0000           400.0000           400.0000           400.0000           400.0000	0.1000  Roughness (mm) 0.1000 0.3000 0.3000 0.3000 0.1000 0.1000 0.3000 0.3000 0.3000 0.3000 0.1000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 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0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	0.0000 Flow (L/s) 0.0000 47.7220 49.5221 77.5379 127.1123 0.0000 0.0000 49.4981 9.5039 39.8344 25.6907 25.6907 25.6907 24.0189 15.8098 0.0000 0.0000	0.0000 Velocity (m/s) 0.0000 0.3798 0.0631 0.6170 0.0631 0.06170 0.0630 0.0000 0.0630 0.0756 0.0507 0.4275 0.4275 0.4275 0.1911 0.0201 0.0000 0.0000	0.0000           Headloss (m)           0.0000           0.0144           0.0013           0.0474           0.0000           0.0000           0.0000           0.0002           0.0034           0.0196           0.0368           0.0004           0.0005           0.0000	0.0000 HL/1000 (m/k-m) 0.0000 0.3787 0.0043 0.0244 0.0000 0.0244 0.0000 0.0244 0.0000 0.0244 0.024 0.024 0.024 0.0000 0.0005 0.0000 0.0000	Open Status Open Open Open Open Open Open Open Open
P409 ID P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3337 DMM_PIP_2547 P381 P379 DMM_PIP_3587 DMM_PIP_3587 DMM_PIP_3587 DMM_PIP_3583 DMM_PIP_3583 DMM_PIP_3583 DMM_PIP_2819 P511 DMM_PIP_2579	DMAV133 From Node DMM_1813 DMM_JUN_2782 DMM_JUN_3416 DMM_JUN_3416 DMM_JUN_3416 DMM_JUN_3164 DMM_JUN_3312 DMM_JUN_3312 DMM_3191 DMAV136 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_30 DMM_JUN_30 DMM_JUN_30 DMM_JUN_30 DMM_J	DMM_17921           To Node           DMAV133           DMM_JUN_3162           DMM_JUN_3164           DMM_JUN_3416           DMM_JUN_3414           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3312           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3318           DMM_JUN_3318           DMM_JUN_31314           DMAV177           DMM_JUN_3154           DMM_JUN_3178	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 1,192.9900 30.0804 56.3494 3.4290 839.1509 4.5805 5.1596 241.7037	197.3000           Diameter (mm)           197.3000           400.0000           1,000.0000           400.0000           260.4000           260.4000           1,000.0000           400.0000           260.4000           260.4000           1,000.0000           276.6000           276.6000           1,000.0000           400.0000           400.0000           400.0000           400.0000           400.0000	0.1000  Roughness (mm) 0.1000 0.3000 0.3000 0.3000 0.3000 0.1000 0.3000 0.3000 0.3000 0.3000 0.1000 0.1000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 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0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	0.0000           Flow (L/s)           0.0000           47.7220           49.5221           77.5379           127.1123           0.0000           0.0000           49.4981           9.5039           39.8344           25.6907           24.0189           15.8098           0.0000           0.0000           0.0000	0.0000 Velocity (m/s) 0.0000 0.3798 0.0631 0.6170 0.1618 0.0000 0.0000 0.0630 0.0756 0.0507 0.4275 0.4275 0.1911 0.0201 0.0000 0.0000 0.0000	0.0000           Headloss (m)           0.0000           0.0144           0.0013           0.0474           0.0000           0.0000           0.0000           0.0002           0.0034           0.0196           0.0368           0.0005           0.0000           0.0005           0.0000	0.0000 HL/1000 (m/k-m) 0.0000 0.3787 0.0043 0.0244 0.0244 0.0244 0.0244 0.0000 0.0043 0.0244 0.0000 0.0043 0.6529 0.6529 0.1031 0.0005 0.0000 0.0000 0.0000	Open Status Open Open Open Open Open Open Open Open
P409 ID P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3337 DMM_PIP_2547 P381 P379 DMM_PIP_3587 DMM_PIP_3587 DMM_PIP_3587 DMM_PIP_3543 DMM_PIP_3433 DMM_PIP_3433 DMM_PIP_2819 P511 DMM_PIP_2579 DMM_PIP_259	DMAV133 From Node DMM_1813 DMM_JUN_2782 DMM_JUN_3416 DMM_JUN_3416 DMM_JUN_3416 DMM_JUN_3164 DMM_JUN_3164 DMM_JUN_3312 DMM_JUN_3316 DMM_	DMM_17921           To Node           DMAV133           DMM_JUN_3162           DMM_JUN_3164           DMM_JUN_3146           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3312           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3318           DMM_JUN_3174           DMM_JUN_3178           DMM_JUN_3178           DMM_JUN_2926	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 1,192.9900 30.0804 56.3494 3.4290 839.1509 4.5805 5.1596 241.7037 93.7455	197.3000           Diameter (mm)           197.3000           400.0000           1,000.0000           400.0000           1,000.0000           260.4000           260.4000           1,000.0000           400.0000           1,000.0000           266.6000           276.6000           276.6000           400.0000           400.0000           400.0000           400.0000           400.0000           400.0000           400.0000           400.0000           400.0000           400.0000	0.1000  Roughness (mm) 0.1000 0.3000 0.3000 0.3000 0.3000 0.1000 0.3000 0.3000 0.3000 0.3000 0.1000 0.3000 0.1000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	0.0000 Flow (L/s) 0.0000 47.7220 49.5221 77.5379 127.1123 0.0000 0.0000 49.4981 9.5039 39.8344 25.6907 25.6907 24.0189 15.8098 0.0000 0.0000 0.0000 -0.1141 4,199.9700	0.0000           Velocity (m/s)           0.0000           0.3798           0.0631           0.6170           0.1618           0.0000           0.0630           0.0756           0.0507           0.4275           0.1911           0.0201           0.0000           0.0000           0.0000	0.0000           Headloss (m)           0.0000           0.0144           0.0013           0.0474           0.0097           0.0000           0.0002           0.0023           0.0002           0.0034           0.0196           0.3068           0.0005           0.0000           0.0000           0.0000           0.0000           0.0000           0.0000           0.0000           0.1818	0.0000 HL/1000 (m/k-m) 0.0000 0.3787 0.0043 0.0244 0.0244 0.0244 0.0000 0.0000 0.0000 0.0003 0.0188 0.0029 0.6529 0.6529 0.6529 0.6529 0.0031 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	Open Status Open Open Open Open Open Open Open Open
P409 ID P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3337 DMM_PIP_2547 P381 P379 DMM_PIP_2547 DMM_PIP_3587 DMM_PIP_3587 DMM_PIP_3583 DMM_PIP_3433 DMM_PIP_3433 DMM_PIP_2819 P511 DMM_PIP_2579 DMM_PIP_2579 DMM_PIP_2957	DMAV133 From Node DMM_1813 DMM_JUN_2782 DMM_JUN_2782 DMM_JUN_3416 DMM_JUN_3416 DMM_JUN_3164 DMM_JUN_3164 DMM_JUN_3312 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3156 DMM_JUN_3156 DMM_JUN_3156 DMM_JUN_3156 DMM_JUN_2928 DMM_JUN_2924	DMM_17921           To Node           DMAV133           DMM_JUN_3162           DMM_JUN_3164           DMM_JUN_3414           DMM_JUN_3416           DMM_12447           DMM_JUN_3312           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3312           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3318           DMM_JUN_314           DMM_JUN_314           DMM_JUN_3154           DMM_JUN_2926           DMM_JUN_2928	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 1,192.9900 30.0804 56.3494 3.4290 839.1509 4.5805 5.1596 241.7037 93.7455 83.9169	197.3000           Diameter (mm)           197.3000           400.0000           1,000.0000           400.0000           1,000.0000           260.4000           260.4000           260.4000           1,000.0000           400.0000           266.4000           266.4000           276.6000           276.6000           400.0000           400.0000           400.0000           400.0000           400.0000           1,600.0000           1,600.0000	0.1000  Roughness (mm) 0.1000 0.3000 0.3000 0.3000 0.3000 0.1000 0.1000 0.3000 0.3000 0.3000 0.1000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 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To Node           DMAV133           DMM_JUN_3162           DMM_JUN_3164           DMM_JUN_3164           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3312           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3318           DMM_JUN_3144           DMM_JUN_3318           DMM_JUN_3154           DMM_JUN_2926           DMM_JUN_2928           DMM_JUN_2924	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 1,192.9900 30.0804 56.3494 3.4290 839.1509 4.5805 5.1596 241.7037 93.7455 83.9169 596.5691	197.3000           Diameter (mm)           197.3000           400.0000           1,000.0000           400.0000           1,000.0000           260.4000           260.4000           1,000.0000           260.4000           1,000.0000           276.6000           276.6000           400.0000           400.0000           400.0000      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0.0005 0.0000 0.0000 0.0000 0.0000 0.0000 1.9388 1.9389 1.9389	Open Status Open Open Open Open Open Open Open Open
P409 ID P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3337 DMM_PIP_2547 P381 P379 DMM_PIP_3587 DMM_PIP_3587 DMM_PIP_3587 DMM_PIP_3583 DMM_PIP_3583 DMM_PIP_2819 P511 DMM_PIP_2579 DMM_PIP_2955	DMAV133 From Node DMM_1813 DMM_JUN_2782 DMM_JUN_3416 DMM_JUN_3416 DMM_JUN_2782 DMAV121 DMM_JUN_3164 DMM_JUN_3164 DMM_JUN_3312 DMM_JUN_3312 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_2924 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 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DMM_JUN_3164 DMM_JUN_3414 DMM_JUN_3416 DMM_12447 DMM_12447 DMM_12447 DMM_12447 DMM_12447 DMM_12447 DMM_12447 DMM_12447 DMM_12447 DMM_JUN_3316 DMM_JUN_3316 DMM_1781 DMM_1781 DMM_10N_3318 DMM_JUN_33154 DMM_JUN_3154 DMM_JUN_2926 DMM_JUN_2926 DMM_JUN_2928 DMM_JUN_2928	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 1,192.9900 30.0804 56.3494 3.4290 839.1509 4.5805 5.1596 241.7037 93.7455 83.9169 596.5691 2,794.4302 2,332.0760	197.3000 Diameter (mm) 197.3000 400.0000 1,000.0000 260.4000 260.4000 260.4000 1,000.0000 1,000.0000 1,000.0000 276.6000 276.6000 276.6000 276.6000 400.0000 1,000.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 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0.0144           0.0013           0.0474           0.0097           0.0000           0.0023           0.0023           0.0023           0.0034           0.0196           0.0368           0.0000           0.0000           0.0000           0.0000           0.1627           1.1567           5.4181           4.5216	0.0000 HL/1000 (m/k-m) 0.0000 0.3787 0.0043 0.09643 0.0244 0.0000 0.0000 0.0043 0.0188 0.0029 0.6529 0.1031 0.0005 0.6529 0.1031 0.0005 0.0000 0.0000 0.0000 0.0000 0.0000 1.9388 1.9389 1.9389	Open           Status           Open
P409 ID P407 DMM_PIP_2549 DMM_PIP_337 DMM_PIP_3337 DMM_PIP_2547 P381 P379 DMM_PIP_2547 P415 P419 DMM_PIP_3579 P415 P419 DMM_PIP_3583 DMM_PIP_3583 DMM_PIP_2819 P511 DMM_PIP_2579 DMM_PIP_2955 DMM_PIP_2955 DMM_PIP_2955 DMM_PIP_2955	DMAV133 From Node DMM_1813 DMM_JUN_2782 DMM_JUN_3416 DMM_JUN_3416 DMM_JUN_3164 DMM_JUN_3164 DMM_JUN_3164 DMM_JUN_3312 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3156 DMM_JUN_3156 DMM_JUN_3156 DMM_JUN_3292 DMM_JUN_2928 DMM_JUN_29218 DMM_JUN_2918	DMM_17921 To Node DMAV133 DMM_JUN_3162 DMM_JUN_3164 DMM_JUN_3414 DMM_JUN_3416 DMM_12447 DMAV121 DMM_12447 DMAV121 DMM_JUN_3316 DMM_JUN_3316 DMM_1781 DMM_1318 DMM_JUN_3314 DMM_JUN_3314 DMM_JUN_3154 DMM_JUN_3154 DMM_JUN_2926 DMM_JUN_2928 DMM_JUN_2924 DMM_JUN_2922	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 1,192.9900 30.0804 56.3494 3.4290 839.1509 4.5805 5.1596 241.7037 93.7455 83.9169 5.96.5691 2,794.4302 2,332.0760 12.3237	197.3000 Diameter (mm) 197.3000 400.0000 1,000.0000 260.4000 260.4000 260.4000 1,000.0000 400.0000 1,000.0000 276.6000 276.6000 276.6000 276.6000 276.6000 1,000.0000 400.0000 1,000.0000 1,000.0000 1,000.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 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0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	0.0000 Flow (L/s) 0.0000 47.7220 49.5221 77.5379 127.1123 0.0000 0.0000 49.4981 9.5039 39.8344 25.6907 24.0189 15.8098 0.0000 0.0000 0.01141 4,199.9700 4,199.9700 4,199.9700	0.0000 Velocity (m/s) 0.0000 0.3798 0.0631 0.6170 0.1618 0.0000 0.0630 0.0756 0.0507 0.4275 0.4275 0.4275 0.4275 0.4275 0.4275 0.4275 0.4275 0.4275 0.4275 0.4275 0.4275 0.4275 0.4289 2.0889 2.0889 2.0889	0.0000           Headloss (m)           0.0000           0.1144           0.0013           0.0474           0.0097           0.0000           0.0023           0.0002           0.0034           0.0196           0.0368           0.0000           0.0000           0.0000           0.0000           0.0000           0.0000           0.0000           0.0000           0.1818           0.1627           1.1567           5.4181	0.0000 HL/1000 (m/k-m) 0.0000 0.3787 0.0043 0.043 0.0244 0.0000 0.0000 0.0000 0.0003 0.0188 0.0029 0.6529 0.6529 0.6529 0.6529 0.6529 0.0311 0.0005 0.0000 0.0000 0.0000 0.0000 0.0000 1.9388 1.9389 1.9389	Open           Status           Open           Open      Open           Open
P409 P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3337 DMM_PIP_3337 DMM_PIP_2547 P381 P379 DMM_PIP_3201 DMM_PIP_3507 DMM_PIP_3587 DMM_PIP_3583 DMM_PIP_3583 DMM_PIP_2819 P511 DMM_PIP_259 DMM_PIP_2955 DMM_PIP_2955 DMM_PIP_2955 DMM_PIP_2951	DMAV133 From Node DMM_1813 DMM_JUN_2782 DMM_JUN_3416 DMM_JUN_3416 DMM_JUN_2782 DMAV121 DMM_JUN_3164 DMM_JUN_3164 DMM_JUN_3312 DMM_JUN_3312 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_2924 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 DMM_JUN_2920 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DMM_JUN_	DMM_17921 To Node DMAV133 DMM_JUN_3162 DMM_JUN_3164 DMM_JUN_3414 DMM_JUN_3416 DMM_12447 DMM_12447 DMM_12447 DMM_12447 DMM_12447 DMM_12447 DMM_12447 DMM_12447 DMM_12447 DMM_JUN_3316 DMM_JUN_3316 DMM_1781 DMM_1781 DMM_10N_3318 DMM_JUN_33154 DMM_JUN_3154 DMM_JUN_2926 DMM_JUN_2926 DMM_JUN_2928 DMM_JUN_2928	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 1,192.9900 30.0804 56.3494 3.4290 839.1509 4.5805 5.1596 241.7037 93.7455 83.9169 596.5691 2,794.4302 2,332.0760	197.3000 Diameter (mm) 197.3000 400.0000 1,000.0000 260.4000 260.4000 260.4000 1,000.0000 1,000.0000 1,000.0000 276.6000 276.6000 276.6000 276.6000 400.0000 1,000.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 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Headloss (m)           0.0000           0.0144           0.0013           0.0474           0.0097           0.0000           0.0023           0.0023           0.0023           0.0034           0.0196           0.0368           0.0000           0.0000           0.0000           0.0000           0.1627           1.1567           5.4181           4.5216	0.0000 HL/1000 (m/k-m) 0.0000 0.3787 0.0043 0.09643 0.0244 0.0000 0.0000 0.0043 0.0188 0.0029 0.6529 0.1031 0.0005 0.6529 0.1031 0.0005 0.0000 0.0000 0.0000 0.0000 0.0000 1.9388 1.9389 1.9389	Open Status Open Open Open Open Open Open Open Open
P409 ID P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3337 DMM_PIP_3337 DMM_PIP_2547 P381 P379 DMM_PIP_3201 DMM_PIP_3587 DMM_PIP_3579 P415 P419 DMM_PIP_3583 DMM_PIP_3583 DMM_PIP_2819 P511 DMM_PIP_255 DMM_PIP_2955 DMM_PIP_2955 DMM_PIP_2951 DMM_PIP_2951 DMM_PIP_2951 DMM_PIP_2951	DMAV133 From Node DMM_1813 DMM_10N_2782 DMM_JUN_3416 DMM_JUN_3416 DMM_JUN_2782 DMAV121 DMM_JUN_3164 DMM_JUN_3164 DMM_JUN_3120 DMM_3191 DMAV136 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_2922 DMM_JUN_2924 DMM_JUN_2920 JAMIAH_TANK	DMM_17921 To Node DMAV133 DMM_JUN_3162 DMM_JUN_3164 DMM_JUN_3414 DMM_JUN_3414 DMM_JUN_3414 DMM_JUN_3416 DMM_12447 DMAV121 DMM_JUN_3312 DMM_JUN_3316 DMM_1781 DMM_JUN_3318 DMM_JUN_3318 DMM_JUN_3314 DMM_JUN_3154 DMM_JUN_3178 DMM_JUN_2928 DMM_JUN_2928 DMM_JUN_29218 DMM_JUN_2920	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 1,192.9900 30.0804 56.3494 3.4290 839.1509 4.5805 5.1596 241.7037 93.7455 83.9169 5.96.5691 2,794.4302 2,332.0760 12.3237	197.3000 Diameter (mm) 197.3000 197.3000 1,000.0000 1,000.0000 260.4000 260.4000 260.4000 1,000.0000 1,000.0000 276.6000 276.6000 276.6000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 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      0.0000           0.0000           0.0000           0.0000           0.1627           1.1567           5.4181           4.5216           0.0239	0.0000 HL/1000 (m/k-m) 0.0000 0.3787 0.0043 0.0244 0.0000 0.0244 0.0000 0.0244 0.0000 0.0043 0.0188 0.0029 0.6529 0.6529 0.6529 0.6529 0.6529 0.6529 0.1031 0.0005 0.0000 0.0000 0.0000 0.0000 1.9388 1.9389 1.9389 1.9390	Open Status Open Open Open Open Open Open Open Open
P409 ID P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3337 DMM_PIP_2547 P381 P379 DMM_PIP_3587 DMM_PIP_3587 DMM_PIP_3587 DMM_PIP_3583 DMM_PIP_3583 DMM_PIP_3583 DMM_PIP_2819 P511 DMM_PIP_2819 P511 DMM_PIP_2595 DMM_PIP_2955 DMM_PIP_2951 DMM_PIP_2951 DMM_PIP_2951 DMM_PIP_2731 DMM_PIP_2731 DMM_PIP_2731 DMM_PIP_2731	DMAV133  From Node  DMM_1813  DMM_10N_2782  DMM_JUN_2782  DMM_JUN_3416  DMM_JUN_2782  DMAV121  DMM_JUN_3164  DMM_JUN_3164  DMM_JUN_3312  DMM_3191  DMAV136  DMM_JUN_3316  DMM_JUN_3316  DMM_JUN_3316  DMM_JUN_3316  DMM_JUN_3156  DMM_JUN_3156  DMM_JUN_2928  DMM_JUN_2924  DMM_JUN_2920  JAMIAH_TANK  DMM_JUN_2846	DMM_17921 To Node DMAV133 DMM_JUN_3162 DMM_JUN_3164 DMM_JUN_3416 DMM_JUN_3416 DMM_12447 DMAV121 DMM_JUN_3312 DMM_JUN_3316 DMM_JUN_3316 DMM_1781 DMM_JUN_3318 DMM_JUN_3314 DMM_JUN_3154 DMM_JUN_3154 DMM_JUN_29226 DMM_JUN_2928 DMM_JUN_2924 DMM_JUN_2928 DMM_JUN_2928 DMM_JUN_2928 DMM_JUN_2928 DMM_JUN_2928 DMM_JUN_2928 DMM_JUN_2928 DMM_JUN_2928 DMM_JUN_2920 DMM_14474	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 1,192.9900 30.0804 56.3494 3.4290 839.1509 4.5805 5.1596 241.7037 93.7455 83.9169 596.5691 2,794.4302 2,332.0760 12.3237 6.1337	197.3000 Diameter (mm) 197.3000 400.0000 1,000.0000 260.4000 260.4000 260.4000 260.4000 260.4000 276.6000 276.6000 276.6000 1,000.0000 400.0000 1,000.0000 1,000.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 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        0.0000           0.0000           0.0000           0.1627           1.1567           5.4181           4.5216           0.0239           0.0000	0.0000 HL/1000 (m/k-m) 0.0000 0.3787 0.0043 0.0244 0.0000 0.0244 0.0000 0.0043 0.0244 0.0000 0.0043 0.0188 0.0029 0.6529 0.6529 0.6529 0.6529 0.6529 0.01031 0.0000 0.0000 0.0000 0.0000 1.9388 1.9389 1.9389 1.9389 1.9390 0.0000	Open Status Open Open Open Open Open Open Open Open
P409 ID P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3337 DMM_PIP_2547 P381 P379 DMM_PIP_3587 DMM_PIP_3587 DMM_PIP_3587 DMM_PIP_3583 DMM_PIP_3583 DMM_PIP_3583 DMM_PIP_2819 P511 DMM_PIP_2819 P511 DMM_PIP_2595 DMM_PIP_2955 DMM_PIP_2951 DMM_PIP_2951 DMM_PIP_2951 DMM_PIP_2731 DMM_PIP_2731 DMM_PIP_2731 DMM_PIP_2731	DMAV133  From Node  DMM_1813  DMM_JUN_2782  DMM_JUN_3416  DMM_JUN_3416  DMM_JUN_3416  DMM_JUN_3164  DMM_JUN_3164  DMM_JUN_3312  DMM_JUN_3316  DMM_JUN_3316  DMM_JUN_3316  DMM_JUN_3316  DMM_JUN_3316  DMM_JUN_3156  DMM_JUN_3156  DMM_JUN_3156  DMM_JUN_2928  DMM_JUN_2928  DMM_JUN_2922  DMM_JUN_2922  DMM_JUN_2922  DMM_JUN_2928  DMM_JUN_2928  DMM_JUN_2922  DMM_JUN_2928  DMM_JUN_2920  JAMIAH_TANK  DMM_G695	DMM_17921           To Node           DMAV133           DMM_JUN_3162           DMM_JUN_3164           DMM_JUN_3146           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3312           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3318           DMM_JUN_3318           DMM_JUN_3154           DMM_JUN_2928           DMM_JUN_2928           DMM_JUN_2924           DMM_JUN_2921           DMM_JUN_2921           DMM_JUN_2921           DMM_JUN_2821           DMM_JUN_28214	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 1,192.9900 30.0804 56.3494 56.3494 56.3494 56.3494 56.3494 5.1596 241.7037 93.7455 83.9169 596.5691 2,794.4302 2,332.0760 12.3237 6.1337 20.7269	197.3000 Diameter (mm) 197.3000 197.3000 1,000.0000 1,000.0000 260.4000 260.4000 260.4000 260.4000 260.4000 276.6000 276.6000 276.6000 1,000.0000 400.0000 1,000.0000 1,000.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 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     0.0007           0.0000           0.0001           0.0002           0.0002           0.0034           0.0196           0.0368           0.0000           0.0000           0.0000           0.0000           0.0000           0.0000           0.1818           0.1627           1.1567           5.4181           4.5216           0.0239           0.0000	0.0000 HL/1000 (m/k-m) 0.0000 0.3787 0.0043 0.0244 0.0000 0.0244 0.0000 0.0244 0.0244 0.0000 0.0043 0.0248 0.0249 0.6529 0.6529 0.6529 0.6529 0.6529 0.1031 0.0005 0.0000 0.0000 0.0000 1.9388 1.9389 1.9389 1.9389 1.9389 1.9389 1.9390 0.0000 0.0000	Open Status Open Open Open Open Open Open Open Open
P409 P407 DMM_PIP_2549 DMM_PIP_2547 DMM_PIP_3337 DMM_PIP_2547 P381 P379 DMM_PIP_2547 DMM_PIP_3587 DMM_PIP_3587 DMM_PIP_3583 DMM_PIP_3583 DMM_PIP_3583 DMM_PIP_2819 P511 DMM_PIP_2819 P511 DMM_PIP_2959 DMM_PIP_2955 DMM_PIP_2955 DMM_PIP_2951 DMM_PIP_2951 DMM_PIP_2951 DMM_PIP_2951 DMM_PIP_2951 DMM_PIP_2951 DMM_PIP_2951 DMM_PIP_2951 DMM_PIP_2951 DMM_PIP_2951 DMM_PIP_2951 DMM_PIP_2951 DMM_PIP_27311 DMM_PIP_27311 DMM_PIP_1393 IAMEAH_OUTLET	DMAV133  From Node  DMM_1813  DMM_JUN_2782  DMM_JUN_3416  DMM_JUN_3416  DMM_JUN_3164  DMM_JUN_3164  DMM_JUN_3312  DMM_3191  DMAV136  DMM_JUN_3316  DMM_JUN_3316  DMM_JUN_3316  DMM_JUN_3316  DMM_JUN_3316  DMM_JUN_3156  DMM_JUN_3156  DMM_JUN_2928  DMM_JUN_2928  DMM_JUN_2922  DMM_JUN_2924  DMM_JUN_2918  DMM_JUN_2846  DMM_JUN_2846  DMM_G953  JAMIAH_TANK	DMM_17921           To Node           DMAV133           DMM_JUN_3162           DMM_JUN_3164           DMM_JUN_3164           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3312           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3318           DMM_JUN_3174           DMM_JUN_3154           DMM_JUN_2926           DMM_JUN_2928           DMM_JUN_2922           DMM_JUN_2922           DMM_JUN_2920           DMM_JUN_2920           DMM_JUN_2920           DMM_JUN_2920           DMM_JUN_2920           DMM_JUN_2920           DMM_JUN_2920           DMM_JUN_2820           DMM_JUN_2820           DMM_JUN_28260	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 1,192.9900 30.0804 56.3494 3.4290 839.1509 4.5805 5.1596 241.7037 93.7455 83.9169 596.5691 2,794.4302 2,332.0760 12.3237 6.1337 20.7269 117.8040	197.3000 Diameter (mm) 197.3000 400.0000 1,000.0000 260.4000 260.4000 260.4000 260.4000 260.4000 260.4000 276.6000 276.6000 276.6000 276.6000 400.0000 400.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 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        0.0000           0.1627           1.1567           5.4181           4.5216           0.0239           0.0000           0.0000           0.0000	0.0000 HL/1000 (m/k-m) 0.0000 0.3787 0.0043 0.0244 0.0244 0.0244 0.0244 0.0000 0.0000 0.0000 0.0043 0.0188 0.0029 0.6529 0.6529 0.6529 0.6529 0.6005 0.0000 0.0000 0.0000 1.9388 1.9389 1.9389 1.9389 1.9389 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 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       DMM_JUN_3154           DMM_JUN_2926           DMM_JUN_2926           DMM_JUN_2921           DMM_JUN_2922           DMM_JUN_2926           DMM_JUN_2926           DMM_JUN_2926           DMM_JUN_2926           DMM_JUN_2926           DMM_JUN_2926           DMM_JUN_2926           DMM_JUN_2820           DMM_JUN_3260           JAMIAH_PS	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 1.192.9900 30.0804 56.3494 3.4290 839.1509 4.5805 5.1596 241.7037 93.7455 83.9169 596.5691 2,732.0760 12.3237 6.1337 20.7269 117.8040 85.4643	197.3000 Diameter (mm) 197.3000 400.0000 1,000.0000 260.4000 260.4000 260.4000 260.4000 260.4000 1,000.0000 400.0000 276.6000 276.6000 276.6000 400.0000 400.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 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   0.0144           0.0013           0.0474           0.0000           0.0000           0.0000           0.0000           0.0000           0.0002           0.0002           0.0034           0.0005           0.0000           0.0000           0.0000           0.0000           0.0000           0.1627           1.1567           5.4181           4.5216           0.0239           0.0000           0.0000           0.0000           0.0000           0.0342           0.0329	0.0000 HL/1000 (m/k-m) 0.0000 0.3787 0.0043 0.0244 0.0244 0.0204 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 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P409 ID P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3337 DMM_PIP_2547 P381 P379 DMM_PIP_2547 P415 P419 DMM_PIP_3587 DMM_PIP_3583 DMM_PIP_3433 DMM_PIP_2819 P511 DMM_PIP_2819 P511 DMM_PIP_2959 DMM_PIP_2955 DMM_PIP_2955 DMM_PIP_2955 DMM_PIP_2951 DMM_PIP_2031 DMM_PIP_3013 DMM_PIP_3033 AMEAH_OUTLET DMM_PIP_3469 DMM_PIP_3465	DMAV133  From Node  DMM_1813  DMM_JUN_2782  DMM_JUN_2782  DMM_JUN_3416  DMM_JUN_3416  DMM_JUN_3164  DMM_JUN_3164  DMM_JUN_3164  DMM_JUN_3312  DMM_JUN_3316  DMM_JUN_3316  DMM_JUN_3316  DMM_JUN_3316  DMM_JUN_3316  DMM_JUN_3166  DMM_JUN_2928  DMM_JUN_2846  DMM_JUN_2860  DMM_JUN_3260  DMM_JUN_3260  DMM_JUN_3260	DMM_17921           To Node           DMAV133           DMM_JUN_3162           DMM_JUN_3164           DMM_JUN_3416           DMM_JUN_3312           DMM_JUN_3316           DMM_JUN_3318           DMM_JUN_3178           DMM_JUN_3154           DMM_JUN_2926           DMM_JUN_2926           DMM_JUN_2922           DMM_JUN_2920           DMM_JUN_3260           JAMIAH_PS           DMAV317	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 1,192.9900 30.0804 56.3494 3.4290 839.1509 4.5805 5.1596 241.7037 93.7455 83.9169 596.5691 2,794.4302 2,332.0760 12.3237 6.1337 20.7269 117.8040 85.4643 2,356.1574	197.3000 Diameter (mm) 197.3000 400.0000 1,000.0000 1,000.0000 260.4000 260.4000 260.4000 260.4000 1,000.0000 400.0000 276.6000 276.6000 276.6000 276.6000 1,000.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 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     0.0000           0.0002           0.0002           0.0002           0.0034           0.0196           0.3688           0.0004           0.0005           0.0000           0.0000           0.0000           0.0000           0.0000           0.1818           0.1627           1.1567           5.4181           4.5216           0.0000           0.0000           0.0000           0.0342           0.0329           0.0663	0.0000 HL/1000 (m/k-m) 0.0000 0.3787 0.0043 0.0244 0.0244 0.0244 0.0000 0.0000 0.0000 0.0000 0.0002 0.6529 0.6529 0.6529 0.6529 0.0315 0.0005 0.0000 0.0000 0.0000 0.0000 0.0000 1.9388 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 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0.0000 0.0000 0.0000 0.0630 0.0756 0.0507 0.4275 0.4275 0.4275 0.4275 0.4275 0.4275 0.4275 0.4275 0.4275 0.4275 0.4275 0.4275 0.4289 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 2.0889 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      0.0144           0.0097           0.0000           0.0023           0.0002           0.0023           0.0004           0.0023           0.0004           0.0005           0.0006           0.0006           0.0007           0.0008           0.0000           0.0000           0.0000           0.0000           0.1627           1.1567           5.4181           4.5216           0.0239           0.0000           0.0329           0.0663           0.0217	0.0000 HL/1000 (m/k-m) 0.0000 0.3787 0.0043 0.09643 0.0244 0.0000 0.0000 0.0043 0.0188 0.0029 0.06529 0.1031 0.0005 0.0529 0.1031 0.0005 0.0529 0.1031 0.0005 0.0000 0.0000 0.0000 1.9388 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 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DMM_JUN_2848 DMM_JUN_2848 DMM_JUN_2848 DMM_JUN_2848 DMM_JUN_2848 DMM_JUN_2848	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 1,192.9900 30.0804 56.3494 3.4290 839.1509 4.5805 5.1596 241.7037 93.7455 83.9169 596.5691 2,794.4302 2,332.0760 12.3237 6.1337 20.7269 117.8040 85.4643 2,356.1574 56.3945 0.5643	197.3000 Diameter (mm) 197.3000 197.3000 1,000.0000 1,000.0000 260.4000 260.4000 260.4000 1,000.0000 1,000.0000 276.6000 276.6000 276.6000 1,000.0000 1,000.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 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0.0000           0.0000           0.0000           0.1627           1.1567           5.4181           4.5216           0.0239           0.0000           0.0342           0.0323	0.0000 HL/1000 (m/k-m) 0.0000 0.3787 0.0043 0.09643 0.0244 0.0000 0.0000 0.0043 0.0188 0.0029 0.6529 0.1031 0.0005 0.6529 0.1031 0.0005 0.0000 0.0000 0.0000 0.0000 0.0000 1.9388 1.9389 1.9389 1.9389 1.9389 1.9389 0.0000 0.0000 0.2903 0.3850 0.3851 0.0281 0.3851 0.0165	Open Status Open Open Open Open Open Open Open Open
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DMM_JUN_20 DMM_JUN_20 DMM_JUN_2	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 1,192.9900 30.0804 56.3494 3.4290 839.1509 4.5805 5.1596 241.7037 93.7455 83.9169 5.96.5691 2,794.4302 2,332.0760 12.3237 6.1337 20.7269 117.8040 85.4643 2,356.1574 56.3945 0.5643 0.5850	197.3000 Diameter (mm) 197.3000 197.3000 1,000.0000 1,000.0000 260.4000 260.4000 260.4000 260.4000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 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      0.0000           0.0144           0.0013           0.0097           0.0000           0.0007           0.0000           0.0001           0.0002           0.0002           0.0034           0.0196           0.0005           0.0000           0.0000           0.0000           0.0000           0.0000           0.1627           1.1567           5.4181           4.5216           0.0239           0.0000           0.0342           0.0329           0.0663           0.0217           0.0000	0.0000 HL/1000 (m/k-m) 0.0000 0.3787 0.0043 0.0244 0.0000 0.0244 0.0000 0.0244 0.0000 0.0043 0.0188 0.029 0.6529 0.6529 0.6529 0.6529 0.031 0.0000 0.0000 0.0000 0.0000 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 0.0000 0.0000 0.0000 0.02013 0.3850 0.0281 0.3851 0.0281 0.0281 0.0281 0.0281 0.0281 0.0281 0.0281 0.0281 0.0281 0.0281 0.0281 0.0281 0.0281 0.0281 0.0281 0.0281 0.0281 0.0281 0.0281 0.0281 0.0281 0.0281 0.0281 0.0281 0.0281 0.0281 0.0281 0.0281 0.0281 0.0281 0.0281 0.0281 0.0281 0.0281 0.0281 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DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3312           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3318           DMM_JUN_3318           DMM_JUN_3178           DMM_JUN_3174           DMM_JUN_2926           DMM_JUN_2928           DMM_JUN_2928           DMM_JUN_2928           DMM_JUN_2928           DMM_JUN_2928           DMM_JUN_2928           DMM_JUN_2928           DMM_JUN_2928           DMM_JUN_2928           DMM_JUN_2820           DMM_JUN_28260           JAMIAH_PS           DMAV16           DMAV16           DMAV16           DMAV16	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 1,192.9900 30.0804 56.3494 3.4290 839.1509 4.5805 5.1596 241.7037 93.7455 83.9169 596.5691 2,794.4302 2,734.4302 2,734.4302 2,734.4302 2,736.1574 56.1574 56.3945 0.5643 0.5850 5.0960	197.3000 Diameter (mm) 197.3000 197.3000 1,000.0000 1,000.0000 260.4000 260.4000 260.4000 260.4000 276.6000 276.6000 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   0.0000           0.0000           0.1627           1.1567           5.4181           4.5216           0.0239           0.0000           0.0342           0.0329           0.0663           0.0217           0.0000           0.0000           0.0000	0.0000 HL/1000 (m/k-m) 0.0000 0.3787 0.0043 0.9643 0.0244 0.0000 0.0044 0.0000 0.0043 0.0148 0.0029 0.6529 0.6529 0.6529 0.6529 0.6529 0.0131 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 1.9388 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.9389 1.938 1.9389 1.938 1.938 1.938 1.938 1.938 1.938 1.938 1.938 1.938 1.938 1.938 1.938 1.938 1.938 1.938 1.938 1.938 1.938 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### 1.4.3 Pumps Operating Speeds

As mentioned above the pumps nominal curves have been added to the system and the VSD properties of the pumps are defined in the model (Table 4 and Table 5).

The following figures show the speed and operating points of each pump for 24 hours simulation period.

Figure 16 presents the operating speeds and operation points of the Dhahyia pump.

Op. Max = maximum operating speed along the extended period simulation (red)

Op. Min = minimum operating speed along the extended period simulation (yellow)

Ref. Max = Reference maximum speed (10% higher than Op. Max, blue)

Ref. Min = Reference minimum speed (10% lower than Op. Min, pink, which is not visible in this case by chance as Ref. Min and Op. Min is the same and it is exactly under the yellow minimum operation curve, it can be seen in following pumps figures)

Duty = introduced pump curve

Operating Points = Points of operation during the extended period simulation (Crayon).

As it is obvious the pump is operating within the range of 0.48 and 0.73 of its operating speeds (between curves colour red and yellow). Hence the chosen pump is big for the system, and it is not Energy efficient. This might be also one the reasons that several PRVs are introduced in the Dammam 2 scopes.





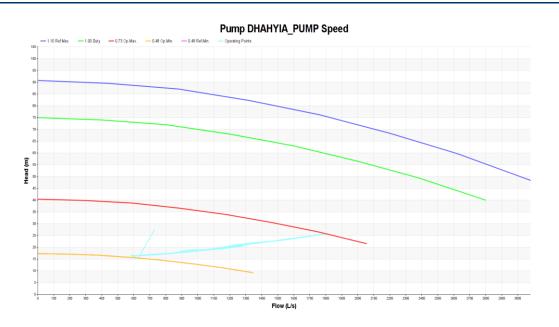


Figure 16- Dhayia Pump operating speeds and operation points

Also, Figure 17 presents the Tank 71 pump operating speeds and operation points. This pump also works within the range of 0.71 to 0.89 of its operating speed to maintain the maximum 3.5 bar pressure at the control junction mentioned in Table 5.



Figure 17-Tank 71 Pump operating speeds and operation points

Moreover, Figure 18 presents the Central Tank Pump operating speeds and operation points. This pump is operating in the range of 0.65-0.92 of its operating speed to maintain the 4 bars pressure in the mentioned above control junction.





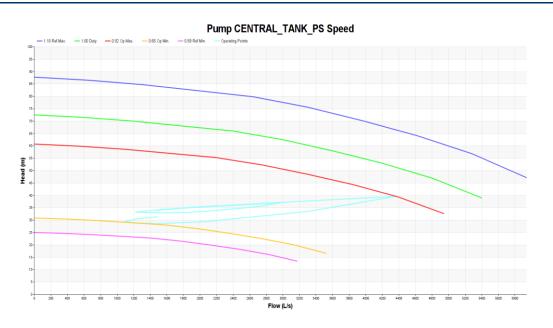


Figure 18- Central Tank Pump operating speeds and operation points

Furthermore, Figure 19 presents the MEW-Tank 55 pump operating speed and operation points. Similarly, this pump is operating in the range of 0.73-0.89 of its operating speed to maintain the 4 bars pressure in the mentioned above control junction.

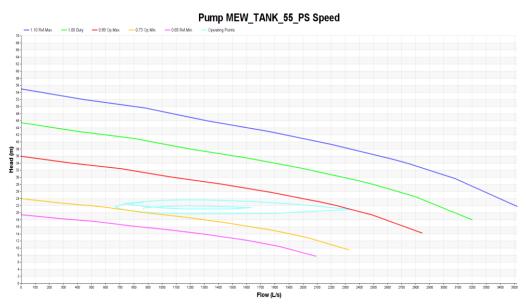


Figure 19- MEW-Tank 55 Pump operating speeds and operation points

Finally, Figure 20 presents the Jamiah pump operating speed and operation points. Similarly, this pump is operating in the range of 0.61-0.83 of its operating speed to maintain the 4 bars pressure in the mentioned above control junction.





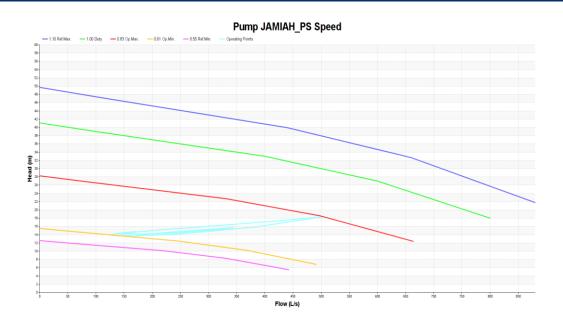
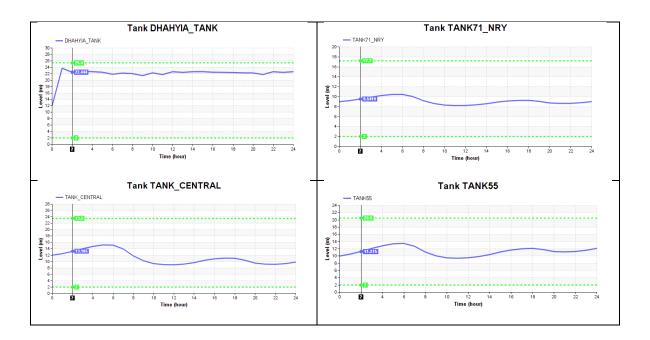


Figure 20- Jamiah Pump operating speeds and operation points

#### 1.4.4 Tanks Levels

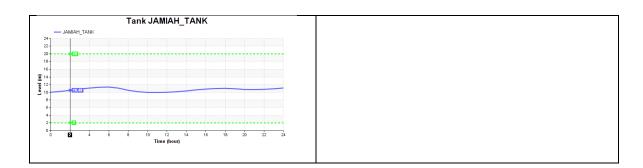
Within the Option 2 Scenario, the tank levels have been evaluated. It is assumed that the initial level of the tanks is around half their height. Figure 21 presents the level of the five tanks in the scope of the Dammam 2 and Dammam 5 projects.

As it is evident, the tanks have large capacities to supply the Dammam water system.











# 3.4 Scenario Two – 2050 Average Daily Demand + Fire Flow (2050 ADD+FF)

A second scenario within the proposed Option two setting with Average Daily Demand + Fire Flow has been used to evaluate the performance of the system. The settings remained the same except for the demand. Both the modified and original models are tested against this scenario, and the results are presented in the followings.

#### 3.4.1 Minimal Residual Pressure – Average Daily Demand + Fire Flow

Figure 22 presents the minimum residual pressure at each node under scenario ADD+FF of the original model. The minimum residual pressure in the system is more than 1.5 bar for more than 99 percent of the system. In Dammam projects, the minimum pressure is more than 1.5 bar and the maximum pressure is around 6 bar. Few points with black or blue colours are either extremely near to 1.5 bar, closed or at proximity of the pumps.

Similarly, Figure 23 presents the minimum residual pressure at each node under the scenario 2 modified model. The minimum residual pressure in the system is more than 1.5 bar for more than 99 percent of the system. In Dammam project, the minimum pressure is more than 1.5 bar and the maximum pressure is around 4 bar except for the gravity main 1600 mm from Jamiah where the pressure goes as high as 7 bar.

Comparing the two the model, it can be concluded the modified model performs better in terms of minimum and maximum pressure, head losses, and overall water system energy efficiency.

Figure 24 shows the velocities in the original model for the second scenario. Most of the pipes still have a velocity below 0.3 m/s. Within the scope of the Dammam project, the maximum velocity is 1.4 m/s, while most of the pipes have velocities lower than 0.3 m/s.

Similarly, Figure 25 shows velocities in the modified model for the second scenario. Modification of the model slightly increases the velocity of the overall system within the design criteria. However, most of the system still has a velocity of less





than 0.3 m/s. Within the project scope in Dammam 2 and Dammam 5, the maximum velocity is 1.8 m/s, where few pipes have velocities lower than 0.3 m/s.

Tables 13 and 14 show the junction and pipes properties respectively during this scenario.



Figure 22- Original Model - Minimum residual pressure of the system (Scenario 2)







Figure 23- Modified Model - Minimum residual pressure of the system (Scenario 2)



Figure 24- Original Model - Water velocities of Dammam system (Scenario 2)





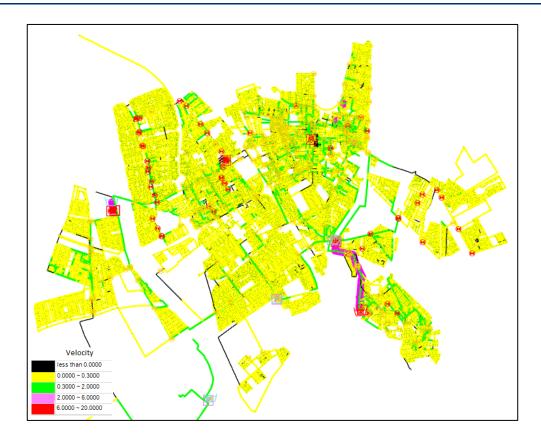


Figure 25- Modified Model - Water velocities of Dammam system (Scenario 2)





#### Table 13: Table for junctions within Dammam 2 and 5 within scenario 2

ID	Demand	Elevation	Head	Pressure
10	(L/s)	(m)	(m)	(bar)
DMM_JUN_2974	0.0000	5.0000	44.3704	3.8580
DMM_JUN_2970	0.0000	5.0000	44.2215	3.8434
DMM_JUN_2972	0.0000	5.0000	44.2546	3.8466
DMM_JUN_3006	0.0351	5.0000	41.6825	3.5946
DMM_JUN_3004	0.1463	4.0000	41.6708	3.6914
DMM_JUN_3002	0.7181	4.0000	41.6745	3.6918
DMM_JUN_2856	0.2730	5.0000	41.6961	3.5959
DMM_JUN_2858	1.0078	2.0000	41.7947	3.8996
DMM_JUN_3000	1.4850	6.0000	41.8970	3.5176
DMM_3879	0.0059	6.0000	41.8968	3.5176
DMM_JUN_2860	1.8776	3.0000	42.1286	3.8343
DMM_JUN_2854	0.5968	6.0000	42.3593	3.5629
DMM_JUN_2996	0.0456	6.0000	42.3872	3.5657
DMM_JUN_2994	0.0235	6.0000	42.3873	3.5657
DMM_JUN_2852	0.2021	4.0000	42.8325	3.8053
DMM_JUN_3374	0.2107	3.0000	43.0655	3.9261
DMM_JUN_3372	0.7069	3.0000	43.1290	3.9323
DMM_JUN_2626	0.4985	3.0000	43.1866	3.9380
DMM_JUN_2638	0.4363	6.0000	43.1267	3.6381
DMM_JUN_3008	0.0485	5.0000	43.1188	3.7353
DMM_JUN_2690	0.6120	7.0000	43.0547	3.5331
DMM_JUN_3010	0.0774	2.0000	43.0537	4.0229
DMM_JUN_3012	0.3648	6.0000	43.0160	3.6273
DMM_JUN_2636	0.3916	4.0000	42.9379	3.8156
DMM_JUN_3014	0.0563	7.0000	41.2351	3.3548
DMM_JUN_3016	0.2307	5.0000	42.9220	3.7161
DMM_JUN_3024	0.4148	7.0000	42.9126	3.5192
DMM_JUN_3026	0.1571	6.0000	42.8841	3.6144
DMM_JUN_2692	0.8396	6.0000	42.8820	3.6142
DMM_JUN_3020	0.3399	6.0000	42.7774	3.6039
DMM_JUN_2740	0.1641	11.0000	42.5592	3.0926
DMM_JUN_3018	0.0204	4.0000	40.4687	3.5736
DMM_7590	0.0824	10.0000	42.5489	3.1895
DMM_JUN_3022	0.1604	4.0000	42.7695	3.7991
DMM_JUN_3028	0.2898	4.0000	42.8384	3.8059





ID	Demand	Elevation	Head	Pressure
	(L/s)	(m)	(m)	(bar)
DMM_JUN_2634	0.2652	4.0000	42.8359	3.8056
DMM_JUN_3032	0.0190	4.0000	42.8145	3.8035
DMM_JUN_3030	0.0625	6.0000	42.2175	3.5490
DMM_JUN_3038	0.2288	2.0000	42.8086	3.9989
DMM_JUN_2632	0.2481	2.0000	42.8069	3.9988
DMM_JUN_3040	0.0160	2.0000	42.7822	3.9963
DMM_JUN_3034	0.1113	2.0000	42.7960	3.9977
DMM_JUN_2640	0.5737	2.0000	42.8016	3.9982
DMM_JUN_2654	0.4126	3.0000	42.7991	3.9000
DMM_JUN_2630	0.2215	3.0000	42.7559	3.8958
DMM_JUN_3042	0.3246	2.0000	42.7513	3.9933
DMM_JUN_276	0.1432	5.0000	42.6617	3.6905
DMM_JUN_3044	0.2193	4.0000	42.7439	3.7966
DMM_JUN_3046	0.0614	4.0000	42.7986	3.8020
DMM_JUN_3048	0.0869	4.0000	42.4604	3.7688
DMM_JUN_2730	0.2281	4.0000	42.7943	3.8015
J-14	0.5763	4.3951	42.7942	3.7628
DMM_JUN_2656	0.0000	11.0000	44.9097	3.3229
DMM_JUN_2732	0.0873	5.0000	44.9097	3.9108
DMM_JUN_3052	0.0250	4.0000	44.9097	4.0088
DMM_JUN_3054	0.0469	4.0000	42.3591	3.7589
DMM_JUN_2734	0.1024	3.0000	44.9097	4.1068
DMM_JUN_3058	0.0151	2.0000	44.9097	4.2048
DMM_JUN_3378	0.0326	7.0000	44.9097	3.7149
DMM_JUN_3376	0.0152	7.0000	44.1204	3.6375
DMM_JUN_3062	0.0071	3.0000	44.9097	4.1068
DMM_JUN_2736	1.7654	1.0000	44.9107	4.3029
DMM_JUN_3064	0.1097	7.0000	44.9141	3.7153
DMM_JUN_3066	0.0043	7.0000	44.9055	3.7144
DMM_JUN_3070	0.0164	7.0000	44.9049	3.7144
DMM_JUN_3068	0.0190	7.0000	44.9039	3.7143
DMM_JUN_2738	0.4094	18.0000	44.9230	2.6382
DMM_2915	0.0043	12.0000	44.9195	3.2258
DMM_JUN_2976	0.5247	6.0000	44.9350	3.8153
DMM_JUN_2980	0.6324	6.0000	44.9387	3.8157





10	Demand	Elevation	Head	Pressure
ID	(L/s)	(m)	(m)	(bar)
DMM_JUN_2962	0.0000	6.0000	195.0820	18.5285
DMM_JUN_2978	2.5945	6.0000	44.9195	3.8138
J52	0.0000	0.0000	17.2629	1.6916
J54	0.0000	0.0000	17.2611	1.6914
DMM_JUN_2960	0.0000	3.0000	195.0967	18.8240
DMM_JUN_3284	1.2171	10.0000	44.7288	3.4031
DMM_JUN_3282	0.2364	10.0000	44.7320	3.4035
DMM_JUN_2390	0.0268	10.0000	44.7312	3.4034
DMM_JUN_2392	0.0241	15.0000	44.7305	2.9134
DMM_3406	0.0043	15.0000	44.7303	2.9133
DMM_JUN_3348	0.0597	15.0000	44.7303	2.9133
DMM_JUN_3350	0.4452	15.0000	44.7214	2.9125
DMM_JUN_2394	0.0719	15.0000	44.7045	2.9108
DMM_JUN_2814	0.1696	11.0000	44.7267	3.3049
DMM_JUN_3288	0.3654	12.0000	44.7161	3.2059
DMM_JUN_3286	0.2375	12.0000	44.7096	3.2053
DMM_JUN_2816	0.3325	12.0000	44.7140	3.2057
DMM_JUN_3290	0.3374	13.0000	44.7083	3.1072
DMM_JUN_3292	0.2864	13.0000	44.7094	3.1073
J30	0.0000	13.0000	44.0571	3.0434
DMM_JUN_3300	0.2066	10.0000	44.7061	3.4009
DMM_JUN_3298	0.1588	10.0000	44.7047	3.4008
J28	0.0000	10.0000	43.8100	3.3131
DMM_JUN_2818	0.6159	14.0000	44.7058	3.0089
DMM_JUN_2812	0.3409	14.0000	44.7050	3.0089
DMM_JUN_3296	1.7522	14.0000	44.7042	3.0088
DMM_JUN_3294	0.7787	14.0000	44.7013	3.0085
DMM_JUN_3354	0.2799	12.0000	42.5697	2.9956
DMM_JUN_3360	0.0030	11.0000	42.6218	3.0987
DMM_JUN_3358	0.1563	11.0000	42.6213	3.0986
DMM_JUN_3356	0.1507	11.0000	42.6234	3.0988
DMM_JUN_2806	1.0504	9.0000	42.6589	3.2983
DMM_2856	0.4120	12.0000	42.3916	2.9781
DMM_JUN_3380	0.2336	9.0000	42.6934	3.3017
DMM_JUN_3382	0.3355	9.0000	42.6864	3.3010

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ID	Demand	Elevation	Head	Pressure
ID ID	(L/s)	(m)	(m)	(bar)
DMM_JUN_3302	0.3353	3.0000	43.8902	4.0069
DMM_JUN_2294	0.0232	3.0000	43.8913	4.0070
DMM_JUN_2810	0.3590	12.0000	43.1629	3.0537
DMM_JUN_3352	0.1291	12.0000	43.1535	3.0528
DMM_846	0.2362	17.0000	45.9942	2.8412
DMM_JUN_3138	0.0523	11.0000	46.0466	3.4343
DMM_JUN_3384	0.0644	4.0000	46.0384	4.1194
DMM_JUN_3142	0.1988	6.0000	46.0896	3.9285
DMM_JUN_2744	0.2164	6.0000	46.0890	3.9284
DMM_JUN_3386	0.2190	6.0000	46.0282	3.9225
DMM_JUN_2746	0.2976	2.0000	46.1635	4.3277
DMM_JUN_3148	0.8870	8.0000	46.3514	3.7581
DMM_JUN_3146	0.0756	8.0000	46.2768	3.7508
DMM_JUN_2762	0.1394	5.0000	46.6191	4.0783
DMM_JUN_3388	0.1076	7.0000	46.5892	3.8794
DMM_2002	0.0565	3.0000	46.4428	4.2571
DMM_JUN_2764	0.0341	6.0000	46.7670	3.9948
DMM_JUN_3150	0.0273	2.0000	46.7195	4.3822
DMM_JUN_2766	0.4793	4.0000	46.8164	4.1957
DMM_JUN_2768	0.0509	5.0000	47.1409	4.1295
DMM_JUN_3152	0.0558	5.0000	47.1170	4.1271
DMM_JUN_2982	0.0534	5.0000	47.8345	4.1974
J58	0.0000	0.0000	16.4239	1.6094
DMM_JUN_2986	0.0512	5.0000	47.8461	4.1986
J56	0.0000	0.0000	16.4264	1.6097
DMM_JUN_2944	0.0000	7.0000	84.6447	7.6086
DMM_JUN_2942	0.0000	10.0000	85.6196	7.4101
DMM_JUN_2940	0.0000	12.0000	86.0628	7.2576
DMM_JUN_2938	0.0000	9.0000	86.2517	7.5701
DMM_JUN_2936	0.0000	16.0000	86.5945	6.9177
DMM_JUN_2934	0.0000	12.0000	87.0282	7.3522
DMM_JUN_2932	0.0000	21.0000	87.8064	6.5465
DMM_JUN_2930	0.0000	29.0000	89.1945	5.8986
DMM_JUN_3280	0.0000	33.0000	89.3425	5.5211
DMM_JUN_2428	0.0000	32.0000	89.3049	5.6154





ID	Demand	Elevation	Head	Pressure
10	(L/s)	(m)	(m)	(bar)
DMM_19836	0.0000	38.0000	89.2759	5.0246
J60	0.0000	37.0000	45.7778	0.8602
J62	0.0000	0.0000	45.7833	4.4864
DMM_JUN_3276	0.0000	37.0000	45.7599	0.8584
DMM_JUN_3278	0.0375	38.0000	68.0165	2.9414
DMM_JUN_3174	0.0203	30.0000	45.6973	1.5382
DMM_1160	0.0138	31.0000	68.0011	3.6258
21665-B	0.0000	27.0000	68.0003	4.0177
DMM_JUN_2794	5.6043	27.0000	67.8086	3.9989
DMM_JUN_2796	0.0231	33.0000	67.8070	3.4108
DMM_JUN_3176	0.0050	31.0000	67.8065	3.6067
DMM_JUN_2678	0.0094	16.0000	67.7301	5.0691
DMM_JUN_3418	0.0040	15.0000	50.9515	3.5230
DMM_JUN_2680	0.0250	14.0000	67.6268	5.2550
DMM_6709	0.5874	19.0000	50.6556	3.1020
DMM_JUN_2790	0.6767	21.0000	67.6047	4.5669
DMM_JUN_3182	0.0363	21.0000	48.2157	2.6669
DMM_JUN_2788	0.1454	10.0000	41.6257	3.0991
J-23	0.0000	10.2337	67.5137	5.6130
DMM_6915	0.0154	15.0000	41.6151	2.6081
DMM_JUN_3186	0.1001	16.0000	41.5188	2.5006
DMM_JUN_2684	0.0563	10.0000	41.4345	3.0803
DMM_JUN_3188	0.0121	5.0000	41.4311	3.5700
DMM_JUN_2682	0.0961	5.0000	41.3968	3.5666
DMM_5853	0.1407	5.0000	41.3935	3.5663
DMM_JUN_3190	0.0747	7.0000	41.3452	3.3656
DMM_JUN_3192	0.0737	2.3782	41.3065	3.8147
DMM_JUN_3194	0.0170	5.5318	41.3003	3.5050
DMM_5301	0.1077	4.0000	41.2784	3.6530
DMM_JUN_2802	0.1548	3.0000	41.2809	3.7512
197	0.0092	5.3500	41.2545	3.5184
10789	0.0442	5.1300	41.2541	3.5399
5447	0.0074	2.0000	41.2467	3.8459
10800	0.0043	2.0000	41.2467	3.8459
10795	0.0000	1.7300	41.2544	3.8731





10	Demand	Elevation	Head	Pressure
ID	(L/s)	(m)	(m)	(bar)
196	0.0000	1.7000	41.2544	3.8760
DMM_JUN_3184	0.0875	9.0000	41.4829	3.1831
DMM_3337	0.0941	7.0000	46.9966	3.9194
DMM_JUN_3320	0.0635	7.0000	46.9874	3.9185
DMM_JUN_2984	0.1823	5.0000	47.8403	4.1980
DMM_JUN_2776	0.9853	11.0000	47.6181	3.5883
DMM_JUN_2778	0.4409	17.0000	47.4887	2.9876
DMM_JUN_3158	0.3149	17.0000	47.4690	2.9857
DMM_JUN_2884	1.3250	17.0000	47.4808	2.9869
DMM_JUN_2780	0.0204	8.0000	47.2174	3.8430
DMM_JUN_3160	0.1725	8.0000	47.2058	3.8419
DMM_1813	0.2215	5.0000	47.1648	4.1318
DMM_17921	0.0830	9.0000	39.7291	3.0112
DMM_JUN_2782	0.1246	5.0000	47.1261	4.1280
DMM_JUN_3162	0.0027	2.0000	47.0817	4.4176
DMM_JUN_3416	0.0751	7.0000	47.1034	3.9298
DMM_JUN_3414	0.0857	7.0000	46.9720	3.9169
DMM_JUN_3164	0.0345	7.0000	47.1010	3.9296
DMM_12447	0.1252	8.0000	37.0701	2.8486
DMM_JUN_3312	0.2295	4.0000	47.0967	4.2231
DMM_JUN_2600	0.0000	4.0000	47.0964	4.2231
DMM_3191	0.3241	7.0000	46.6945	3.8897
DMM_1781	0.5706	8.0000	46.5831	3.7808
DMM_JUN_3316	0.0082	5.0000	47.0904	4.1245
DMM_JUN_3318	0.0552	5.0000	47.0894	4.1244
DMM_JUN_3314	0.0672	4.0000	47.0900	4.2225
DMM_JUN_3156	0.3694	17.0000	47.1251	2.9520
DMM_JUN_3154	0.2991	17.0000	46.9532	2.9352
DMM_JUN_3178	0.0206	37.0000	67.8000	3.0182
DMM_6695	0.0180	38.0000	67.7999	2.9202
DMM_JUN_2926	0.0000	38.0000	89.5274	5.0493
DMM_JUN_2928	0.0000	35.0000	89.7092	5.3611
DMM_JUN_2924	0.0000	35.0000	89.8719	5.3770
DMM_JUN_2922	0.0000	42.0000	91.0286	4.8044
DMM_JUN_2918	0.0000	40.0000	96.4467	5.5313

ID	Demand (L/s)	Elevation (m)	Head (m)	Pressure (bar)
DMM_JUN_2920	0.0000	80.0000	100.9683	2.0547
DMM_14474	0.0207	89.0000	115.4519	2.5921
DMM_JUN_2846	1.1782	89.0000	115.4520	2.5921
DMM_6953	0.0383	42.0000	68.0096	2.5487
DMM_JUN_3260	270.1328	80.0000	100.9104	2.0491
DMM_JUN_2844	0.0200	89.0000	115.5018	2.5970
DMM_5840	0.0000	89.0000	115.5017	2.5970
DMM_5339	0.1408	91.0000	115.4713	2.3980
DMM_JUN_2840	0.4230	95.0000	115.4716	2.0061
DMM_5340	0.1346	74.0000	115.2865	4.0458
DMM_JUN_2838	0.7172	71.0000	115.2865	4.3397
DMM_JUN_2842	0.0540	53.0000	83.1302	2.9525
DMM_5812	0.0233	51.0000	76.8086	2.5290
J-49	0.1417	53.0000	83.6039	2.9989





#### Table 14: Table for pipes within Dammam 2 and 5 within scenario 2

ID	From Node	To Node	Length (m)	Diameter (mm)	Roughness (mm)	Flow (L/s)	Velocity (m/s)	Headloss (m)	HL/1000 (m/k-m)	Status
P-30	FCV-3	DHAHYIA_TANK	158.1679	2,000.0000	0.3000	18,004.6801	5.7311	0.8422	5.3250	Open
P-29	DHAHIYASTRATEGICTAN		420.1012	2,000.0000	0.3000	18,004.6801	5.7311	2.2370	5.3250	Open
DHAHIYA_OUTLET	DHAHYIA_TANK	DHAHYIA_PUMP	90.4825	1,400.0000	0.3000	886.0026	0.5756	0.0165	0.1824	Open
P11	DHAHYIA_TANK	AHIYASTRATEGICOPTION2P	105.0086	1,600.0000	0.3000	3,700.0106	1.8402	0.1585	1.5098	Open
P15 P17	DHAHYIA_TANK HIYASTRATEGICOPTION2	IAHIYASTRATEGICOPTION2P J-68	104.0323 109.0136	1,600.0000	0.3000	0.0000	0.0000	0.0000	0.0000	Closed Closed
P17 P13	HIYASTRATEGICOPTION		109.0130	1,600.0000	0.3000	3,700.0106	1.8402	0.1642	1.5097	Open
DMM_PIP_3041	DMM_VAL_8180	DMM_JUN_2974	88.9742	1,400.0000	0.3000	886.0026	0.5756	0.0162	0.1824	Open
DMM_PIP_3039	DHAHYIA_PUMP	DMM_VAL_8180	86.3150	1,400.0000	0.3000	886.0026	0.5756	0.0157	0.1824	Open
DMM PIP 2095	DMM_JUN_2974	DMM_VAL_8188	328.9556	1,000.0000	0.3000	474.2593	0.6038	0.0990	0.3008	Open
DMM_PIP_2143	DMM_JUN_2974	DMM_VAL_8190	312.4777	1,000.0000	0.3000	411.7433	0.5242	0.0715	0.2288	Open
DMM_PIP_3059	DMM_VAL_8190	DMM_JUN_2972	193.3053	1,000.0000	0.3000	411.7433	0.5242	0.0442	0.2289	Open
DMM_PIP_3057	DMM_VAL_8188	DMM_JUN_2970	165.8876	1,000.0000	0.3000	474.2593	0.6038	0.0499	0.3008	Open
P19	J-68	DMM_JUN_2900	11.0483	1,600.0000	0.3000	-1,139.9952	0.5670	0.0017	0.1515	Open
DMM_PIP_3109A	DMAV34	DMM_JUN_3002	151.4414	400.0000	0.3000	15.4827	0.1232	0.0069	0.0455	Open
DMM_PIP_3109	DMM_JUN_3006 DMM_JUN_3006	DMAV34 DMAV35	23.4707 17.5910	400.0000 400.0000	0.3000	15.4827 32.3834	0.1232	0.0011 0.0032	0.0456	Open Open
DMM_PIP_3107 DMM_PIP_2761	DMM_JUN_2856	DMM_JUN_3006	35.6976	400.0000	0.3000	47.9012	0.2377	0.0032	0.3815	Open
DMM_PIP_3107A	DMAV35	DMM_JUN_3004	46.7041	400.0000	0.3000	32.3834	0.2577	0.0085	0.1811	Open
DMM_PIP_2747	DMM JUN 2858	DMM JUN 2856	255.6478	400.0000	0.3000	48.1742	0.3834	0.0986	0.3857	Open
DMM_PIP_3099	DMM_JUN_3000	DMM_JUN_2858	255.0532	400.0000	0.3000	49.1820	0.3914	0.1023	0.4013	Open
DMM_PIP_3101	DMM_JUN_3000	DMAV33	2.5392	400.0000	0.3000	13.8220	0.1100	0.0001	0.0366	Open
DMM_PIP_2749	DMM_JUN_2860	DMM_JUN_3000	342.7624	400.0000	0.3000	64.4889	0.5132	0.2315	0.6754	Open
DMM_PIP_3101A	DMAV33	DMM_3879	5.0712	400.0000	0.3000	13.8220	0.1100	0.0002	0.0376	Open
DMM_8544	DMM_3563	DMM_3879	0.6716	197.3000	0.3000	-13.8160	0.4519	0.0009	1.2743	Open
DMM_PIP_2745	DMM_JUN_2854	DMM_JUN_2860	323.1590	400.0000	0.3000	66.3665	0.5281	0.2307	0.7139	Open
DMM_PIP_3093	DMM_JUN_2996	DMM_JUN_2854	38.4895	400.0000	0.3000	66.9633	0.5329	0.0280	0.7263	Open
DMM_PIP_3095	DMM_JUN_2996	DMAV32 DMM JUN 2996	5.2456 698.8017	400.0000 400.0000	0.3000	-4.4383 62.5706	0.0353	0.0000	0.0044	Open
DMM_PIP_2743 DMM_PIP_3095A	DMM_JUN_2852 DMAV32	DMM_JUN_2996	18.5296	400.0000	0.3000	-4.4383	0.4979	0.4455	0.0048	Open Open
DMM_PIP_3095A	DMM_JUN_3372	DMM_JUN_2852	462.3809	400.0000	0.3000	62.7727	0.4995	0.2965	0.6412	Open
DMM PIP 3089	DMM_JUN_3372	DMAV30	55.0482	400.0000	0.3000	35.4143	0.2818	0.0118	0.2145	Open
DMM_PIP_3089A	DMAV30	DMM_JUN_3374	241.1596	400.0000	0.3000	35.4143	0.2818	0.0517	0.2146	Open
DMM_PIP_2137	DMM_JUN_2626	DMM_JUN_3372	37.2392	400.0000	0.3000	98.8938	0.7870	0.0576	1.5465	Open
DMM_PIP_3113	DMM_JUN_2638	DMAV42	22.7195	400.0000	0.3000	21.6481	0.1723	0.0019	0.0850	Open
ID	From Node	To Node	Length	Diameter	Roughness	Flow	Velocity	Headloss	HL/1000	Status
			(m)	(mm)	(mm)	(L/s)	(m/s)	(m)	(m/k-m)	
DMM_PIP_2109	DMM_JUN_2638	DMM_JUN_2690	593.2417 429.6359	1,000.0000	0.3000	296.1703 318.2547	0.3771	0.0720	0.1214 0.1393	Open
DMM_PIP_2097 DMM_PIP_3113A	DMM_JUN_2626 DMAV42	DMM_JUN_2638 DMM_JUN_3008	70.4685	400.0000	0.3000	21.6481	0.4052	0.0060	0.1393	Open Open
DMM_PIP_3113A	DMM_JUN_2690		125.8354		0.3000	2.5669	0.0204	0.0000		
DMM_PIP_2277		I DMAV37		400 0000	0.3000			0.0002		
		DMAV37 DMM JUN 3012		400.0000	0.3000			0.0002	0.0018	Open
DMM_PIP_3117A	DMM_JUN_2690 DMAV37	DMAV37 DMM_JUN_3012 DMM_JUN_3010	326.2218 430.3304	400.0000 1,000.0000 400.0000	0.3000 0.3000 0.3000	292.9914 2.5669	0.3730	0.0002 0.0388 0.0008		
DMM_PIP_3117A DMM_PIP_3123	DMM_JUN_2690	DMM_JUN_3012	326.2218	1,000.0000	0.3000	292.9914	0.3730	0.0388	0.0018 0.1189	Open Open
	DMM_JUN_2690 DMAV37	DMM_JUN_3012 DMM_JUN_3010	326.2218 430.3304	1,000.0000 400.0000	0.3000	292.9914 2.5669	0.3730 0.0204	0.0388	0.0018 0.1189 0.0018	Open Open Open
DMM_PIP_3123	DMM_JUN_2690 DMAV37 DMM_JUN_3012	DMM_JUN_3012 DMM_JUN_3010 DMAV43	326.2218 430.3304 25.0933 658.4426 69.2475	1,000.0000 400.0000 400.0000	0.3000 0.3000 0.3000 0.3000 0.3000	292.9914 2.5669 0.0000	0.3730 0.0204 0.0000 0.3726 0.1792	0.0388 0.0008 0.0000 0.0781 0.0063	0.0018 0.1189 0.0018 0.0000 0.1186 0.0915	Open Open Open Open
DMM_PIP_3123 DMM_PIP_3119 DMM_PIP_3127 DMM_PIP_2107	DMM_JUN_2690 DMAV37 DMM_JUN_3012 DMM_JUN_3012 DMM_JUN_2636 DMM_JUN_2636	DMM_JUN_3012 DMM_JUN_3010 DMAV43 DMM_JUN_2636 DMAV38 DMM_JUN_3024	326.2218 430.3304 25.0933 658.4426 69.2475 249.0059	1,000.0000 400.0000 1,000.0000 400.0000 1,000.0000 1,000.0000	0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	292.9914 2.5669 0.0000 292.6266 22.5228 269.7122	0.3730 0.0204 0.0000 0.3726 0.1792 0.3434	0.0388 0.0008 0.0000 0.0781 0.0063 0.0253	0.0018 0.1189 0.0018 0.0000 0.1186 0.0915 0.1015	Open Open Open Open Open Open Open Open
DMM_PIP_3123 DMM_PIP_3119 DMM_PIP_3127 DMM_PIP_2107 DMM_PIP_3127A	DMM_JUN_2690 DMAV37 DMM_JUN_3012 DMM_JUN_3012 DMM_JUN_2636 DMM_JUN_2636 DMA_V38	DMM_JUN_3012 DMM_JUN_3010 DMAV43 DMM_JUN_2636 DMAV38 DMM_JUN_3024 DMM_JUN_3016	326.2218 430.3304 25.0933 658.4426 69.2475 249.0059 103.8293	1,000.0000 400.0000 1,000.0000 400.0000 1,000.0000 1,000.0000 400.0000	0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	292.9914 2.5669 0.0000 292.6266 22.5228 269.7122 22.5228	0.3730 0.0204 0.0000 0.3726 0.1792 0.3434 0.1792	0.0388 0.0008 0.0000 0.0781 0.0063 0.0253 0.0095	0.0018 0.1189 0.0018 0.0000 0.1186 0.0915 0.1015 0.0914	Open Open Open Open Open Open Open Open
DMM_PIP_3123 DMM_PIP_3119 DMM_PIP_3127 DMM_PIP_2107 DMM_PIP_3127A DMM_PIP_3123A	DMM_JUN_2690 DMAV37 DMM_JUN_3012 DMM_JUN_2636 DMM_JUN_2636 DMM_JUN_2636 DMAV38 DMAV43	DMM_JUN_3012 DMM_JUN_3010 DMAV43 DMM_JUN_2636 DMAV38 DMM_JUN_3024 DMM_JUN_3016 DMM_JUN_3014	326.2218 430.3304 25.0933 658.4426 69.2475 249.0059 103.8293 70.4380	1,000.0000 400.0000 1,000.0000 400.0000 1,000.0000 1,000.0000 400.0000 400.0000	0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	292.9914 2.5669 0.0000 292.6266 22.5228 269.7122 22.5228 0.0000	0.3730 0.0204 0.0000 0.3726 0.1792 0.3434 0.1792 0.0000	0.0388 0.0008 0.0000 0.0781 0.0063 0.0253 0.0095 0.0000	0.0018 0.1189 0.0018 0.0000 0.1186 0.0915 0.1015 0.0914 0.0000	Open Open Open Open Open Open Open Open
DMM_PIP_3123 DMM_PIP_3119 DMM_PIP_3127 DMM_PIP_2107 DMM_PIP_3127A DMM_PIP_3123A DMM_PIP_3139	DMM_JUN_2690 DMAV37 DMM_JUN_3012 DMM_JUN_3012 DMM_JUN_2636 DMM_JUN_2636 DMAV38 DMAV43 DMM_JUN_3024	DMM_JUN_3012 DMM_JUN_3010 DMAV43 DMM_JUN_2636 DMAV38 DMM_JUN_3024 DMM_JUN_3016 DMM_JUN_3014 DMM_V44	326.2218 430.3304 25.0933 658.4426 69.2475 249.0059 103.8293 70.4380 31.2033	1,000.0000 400.0000 1,000.0000 400.0000 400.0000 400.0000 400.0000 400.0000	0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	292.9914 2.5669 0.0000 292.6266 22.5228 269.7122 22.5228 0.0000 40.5215	0.3730 0.0204 0.0000 0.3726 0.1792 0.3434 0.1792 0.0000 0.3225	0.0388 0.0008 0.0000 0.0781 0.0063 0.0253 0.0095 0.0000 0.0087	0.0018 0.1189 0.0018 0.0000 0.1186 0.0915 0.1015 0.0914 0.0000 0.2772	Open Open Open Open Open Open Open Open
DMM_PIP_3123 DMM_PIP_3119 DMM_PIP_3127 DMM_PIP_2107 DMM_PIP_3127A DMM_PIP_3123A DMM_PIP_3139 DMM_PIP_3139A	DMM_JUN_2690 DMAV37 DMM_JUN_3012 DMM_JUN_2636 DMM_JUN_2636 DMM_JUN_2636 DMAV38 DMAV43 DMM_JUN_3024 DMAV44	DMM_JUN_3012 DMM_JUN_3010 DMAV43 DMM_JUN_2636 DMAV38 DMM_JUN_3024 DMM_JUN_3016 DMM_JUN_3014 DMM_JUN_3026	326.2218 430.3304 25.0933 658.4426 69.2475 249.0059 103.8293 70.4380 31.2033 71.4614	1,000.0000 400.0000 1,000.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000	0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	292.9914 2.5669 0.0000 292.6266 22.5228 269.7122 22.5228 0.0000 40.5215 40.5215	0.3730 0.0204 0.0000 0.3726 0.1792 0.3434 0.1792 0.0000 0.3225 0.3225	0.0388 0.0008 0.0000 0.0781 0.0063 0.0253 0.0095 0.0000 0.0087 0.0198	0.0018 0.1189 0.0018 0.0000 0.1186 0.0915 0.1015 0.0914 0.0000 0.2772 0.2772	Open Open Open Open Open Open Open Open
DMM_PIP_3123 DMM_PIP_3119 DMM_PIP_3127 DMM_PIP_3127 DMM_PIP_3127A DMM_PIP_3123A DMM_PIP_3139 DMM_PIP_3139 DMM_PIP_3135	DMM_JUN_2690           DMAV37           DMM_JUN_3012           DMM_JUN_2636           DMM_JUN_2636           DMAV38           DMAV43           DMM_JUN_3024	DMM_JUN_3012 DMM_JUN_3010 DMAV43 DMM_JUN_2636 DMAV38 DMM_JUN_3024 DMM_JUN_3016 DMM_JUN_3014 DMM_JUN_3014 DMAV44 DMM_JUN_3026 DMM_JUN_2692	326.2218 430.3304 25.0933 658.4426 69.2475 249.0059 103.8293 70.4380 31.2033 71.4614 412.3026	1,000.0000 400.0000 1,000.0000 1,000.0000 1,000.0000 400.0000 400.0000 400.0000 1,000.0000 1,000.0000	0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	292.9914 2.5669 0.0000 292.6266 22.5228 269.7122 22.5228 0.0000 40.5215 40.5215 228.7760	0.3730 0.0204 0.0000 0.3726 0.1792 0.3434 0.1792 0.0000 0.3225 0.3225 0.2913	0.0388 0.0008 0.0000 0.0781 0.0063 0.0253 0.0095 0.0000 0.0087 0.0198 0.0306	0.0018 0.1189 0.0008 0.0000 0.1186 0.0915 0.1015 0.0914 0.0000 0.2772 0.2772 0.0741	Open Open Open Open Open Open Open Open
DMM_PIP_3123 DMM_PIP_3119 DMM_PIP_3127 DMM_PIP_3127 DMM_PIP_3127A DMM_PIP_3123A DMM_PIP_31399 DMM_PIP_3139A DMM_PIP_3135 DMM_PIP_2427	DMM_JUN_2690 DMAV37 DMM_JUN_3012 DMM_JUN_2636 DMM_JUN_2636 DMM_JUN_2636 DMAV38 DMAV43 DMM_JUN_3024 DMAV44	DMM_JUN_3012 DMM_JUN_3010 DMAV43 DMM_JUN_2636 DMAV38 DMM_JUN_3024 DMM_JUN_3016 DMM_JUN_3016 DMM_JUN_3014 DMAV44 DMM_JUN_3026 DMM_JUN_2692 DMAV45	326.2218 430.3304 25.0933 658.4426 69.2475 249.0059 103.8293 70.4380 31.2033 71.4614	1,000.0000 400.0000 1,000.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000	0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	292.9914 2.5669 0.0000 292.6266 22.5228 269.7122 22.5228 0.0000 40.5215 40.5215	0.3730 0.0204 0.0000 0.3726 0.1792 0.3434 0.1792 0.0000 0.3225 0.3225	0.0388 0.0008 0.0000 0.0781 0.0063 0.0253 0.0095 0.0000 0.0087 0.0198	0.0018 0.1189 0.0018 0.0000 0.1186 0.0915 0.1015 0.0914 0.0000 0.2772 0.2772	Open Open Open Open Open Open Open Open
DMM_PIP_3123 DMM_PIP_3119 DMM_PIP_3127 DMM_PIP_3127 DMM_PIP_3127A DMM_PIP_3123A DMM_PIP_3139 DMM_PIP_3139 DMM_PIP_3135	DMM_JUN_2690 DMAV37 DMM_JUN_3012 DMM_JUN_2636 DMM_JUN_2636 DMAV38 DMAV43 DMAV43 DMM_JUN_3024 DMAV44 DMM_JUN_3024 DMM_JUN_3024	DMM_JUN_3012 DMM_JUN_3010 DMAV43 DMM_JUN_2636 DMAV38 DMM_JUN_3024 DMM_JUN_3016 DMM_JUN_3014 DMM_JUN_3014 DMAV44 DMM_JUN_3026 DMM_JUN_2692	326.2218 430.3304 25.0933 658.4426 69.2475 249.0059 103.8293 70.4380 31.2033 71.4614 412.3026 52.7775	1,000.0000 400.0000 1,000.0000 1,000.0000 1,000.0000 400.0000 400.0000 400.0000 400.0000 1,000.0000 1,000.0000	0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	292.9914 2.5669 0.0000 292.6266 22.5228 269.7122 22.5228 0.0000 40.5215 40.5215 228.7760 52.2161	0.3730 0.0204 0.0000 0.3726 0.1792 0.3434 0.1792 0.0000 0.3225 0.3225 0.3225 0.2913 0.4155	0.0388 0.0008 0.0000 0.0781 0.0063 0.0253 0.0095 0.0000 0.0087 0.0198 0.0306 0.0238	0.0018 0.1189 0.0018 0.0000 0.1186 0.0915 0.1015 0.0914 0.0000 0.2772 0.2772 0.2772	Open Open Open Open Open Open Open Open
DMM_PIP_3123 DMM_PIP_3119 DMM_PIP_3127 DMM_PIP_3127 DMM_PIP_3127A DMM_PIP_3127A DMM_PIP_3123A DMM_PIP_3139A DMM_PIP_3139A DMM_PIP_3139A DMM_PIP_2427 DMM_PIP_2427	DMM_JUN_2690 DMAV37 DMM_JUN_3012 DMM_JUN_3012 DMM_JUN_2636 DMM_JUN_2636 DMAV38 DMAV43 DMAV43 DMM_JUN_3024 DMM_JUN_3024 DMM_JUN_2692 DMM_JUN_2692	DMM_JUN_3012 DMM_JUN_3010 DMAV43 DMM_JUN_2636 DMAV38 DMM_JUN_3024 DMM_JUN_3016 DMM_JUN_3016 DMM_JUN_3014 DMAV44 DMM_JUN_3026 DMM_JUN_2692 DMAV45 DMM_JUN_3028 DMM_JUN_3028	326.2218 430.3304 25.0933 658.4426 69.2475 249.0059 103.8293 70.4380 31.2033 71.4614 412.3026 52.7775 972.3816	1,000.0000 400.0000 1,000.0000 1,000.0000 400.0000 400.0000 400.0000 400.0000 400.0000 1,000.0000 1,000.0000 400.0000	0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	292.9914 2.5669 0.0000 292.6266 22.5228 269.7122 22.5228 0.0000 40.5215 40.5215 228.7760 52.2161 175.7203	0.3730 0.0204 0.0000 0.3726 0.1792 0.3434 0.1792 0.0000 0.3225 0.3225 0.3225 0.2913 0.4155 0.2237	0.0388 0.0008 0.0000 0.0781 0.0063 0.0253 0.0095 0.00095 0.00087 0.0198 0.0306 0.0238 0.0238	0.0018 0.1189 0.0018 0.0000 0.1186 0.0915 0.1015 0.0914 0.0000 0.2772 0.2772 0.2772 0.2772 0.27741 0.4500	Open Open Open Open Open Open Open Open
DMM_PIP_3123 DMM_PIP_3119 DMM_PIP_3127 DMM_PIP_3127 DMM_PIP_3127A DMM_PIP_3123A DMM_PIP_3139A DMM_PIP_3139A DMM_PIP_3135 DMM_PIP_2427 DMM_PIP_2427A DMM_PIP_2427A DMM_PIP_2427A DMM_PIP_24289	DMM_JUN_2690 DMAV37 DMM_JUN_3012 DMM_JUN_3012 DMM_JUN_2636 DMM_JUN_2636 DMAV38 DMAV43 DMM_JUN_3024 DMM_JUN_3024 DMM_JUN_2692 DMM_JUN_2692 DMM_JUN_2692 DMM_JUN_2692 DMM_JUN_3020	DMM_JUN_3012 DMM_JUN_3010 DMAV43 DMM_JUN_2636 DMAV38 DMM_JUN_3024 DMM_JUN_3016 DMM_JUN_3014 DMM_JUN_3026 DMM_JUN_2692 DMM_JUN_2028 DMM_JUN_3028	326.2218 430.3304 25.0933 658.4426 69.2475 249.0059 103.8293 70.4380 31.2033 71.4614 412.3026 52.7775 972.3816 179.8362	1,000.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000	0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	292.9914 2.5669 0.0000 292.6266 22.5228 269.7122 22.5228 0.0000 40.5215 40.5215 228.7760 52.2161	0.3730 0.0204 0.0000 0.3726 0.1792 0.3434 0.1792 0.0000 0.3225 0.3225 0.2913 0.4155 0.2237 0.4155	0.0388 0.0008 0.0000 0.0781 0.0063 0.0253 0.0095 0.0000 0.0087 0.0198 0.0306 0.0238 0.0437 0.0809	0.0018 0.1189 0.0000 0.1186 0.0915 0.0015 0.0915 0.0914 0.0000 0.2772 0.2772 0.2772 0.2772 0.2772 0.2772 0.2772 0.2772	Open
DMM_PIP_3123 DMM_PIP_3119 DMM_PIP_3127 DMM_PIP_3127A DMM_PIP_3127A DMM_PIP_3123A DMM_PIP_3139 DMM_PIP_3139 DMM_PIP_3139 DMM_PIP_3135 DMM_PIP_3135 DMM_PIP_24277 DMM_PIP_2427A DMM_PIP_2427A DMM_PIP_24273	DMM_JUN_2690 DMAV37 DMM_JUN_3012 DMM_JUN_3012 DMM_JUN_2636 DMM_JUN_2636 DMAV38 DMAV43 DMM_JUN_2632 DMAV44 DMM_JUN_3024 DMM_JUN_2692 DMM_JUN_2692 DMM_JUN_2692 DMM_JUN_2692 DMM_JUN_2020 DMM_JUN_3020 DMM_JUN_2740	DMM_JUN_3012 DMM_JUN_3010 DMAV43 DMM_JUN_2636 DMAV38 DMM_JUN_3024 DMM_JUN_3016 DMM_JUN_3014 DMM_JUN_3026 DMM_JUN_2692 DMMV45 DMM_JUN_3028 DMM_JUN_3020 DMM_JUN_3022 DMM_JUN_3022 DMM_JUN_3022 DMM_JUN_3018	326.2218 430.3304 25.0933 658.4426 69.2475 249.0059 103.8293 70.4380 31.2033 71.4614 412.3026 52.7775 972.3816 179.8362 1.541.3807	1,000.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 400.0000 1,000.0000 400.0000 400.0000 400.0000 400.0000	0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	292.9914 2.5669 0.0000 292.6266 22.5228 269.7122 22.5228 0.0000 40.5215 40.5215 228.7760 52.2161 175.7203 52.2161 28.4223 23.4538 0.0000	0.3730 0.0204 0.0000 0.3726 0.3726 0.3732 0.3434 0.1792 0.3434 0.1792 0.3225 0.3225 0.3225 0.3225 0.2913 0.4155 0.2237 0.4155 0.2262 0.1866 0.1866	0.0388 0.0008 0.00781 0.0063 0.0253 0.0095 0.00095 0.00087 0.0198 0.0306 0.0238 0.0437 0.0437 0.0809 0.2182	0.0018 0.1189 0.0018 0.0000 0.1186 0.0915 0.1015 0.0914 0.0000 0.2772 0.2772 0.0741 0.4500 0.0449 0.4500 0.1415 0.0987 0.0000	Open
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0.2182 0.0079 0.0000 0.0102 0.0000 0.00025 0.0000 0.00025 0.0000 0.0025 0.0000 0.0025 0.0000 0.0025 0.0000 0.0025 0.0000 0.0025 0.0000 0.0025 0.0000 0.0025 0.0000 0.0025 0.0000 0.0025 0.0000 0.0025 0.0000 0.0025 0.0000 0.0025 0.0000 0.0025 0.0000 0.0025 0.0000 0.0025 0.0000 0.0025 0.0000 0.0025 0.0000 0.0025 0.0000 0.0025 0.0000 0.0025 0.0000 0.0025 0.0000 0.0025 0.0000 0.0025 0.0000 0.0028 0.0000 0.0028 0.0000 0.0028 0.0000 0.0027 0.0000 0.0000 0.0007 0.0000 0.0027 0.0000 0.0000 0.0007 0.0000 0.0025 0.0000 0.0000 0.0000 0.0007 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0002 0.0000 0.0002 0.0000 0.0000 0.0000 0.0002 0.0000 0.0000 0.0002 0.0000 0.0002 0.0000 0.0000 0.0002 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00	0.0018 0.1189 0.0018 0.0000 0.1186 0.0915 0.1015 0.0914 0.0000 0.2772 0.2772 0.2772 0.0741 0.4500 0.0449 0.4500 0.1415 0.0987 0.0000 0.1415 0.0987 0.0000 0.1400 0.1291 0.0245 0.1291 0.0245 0.0761 0.4094	Open Open Open Open Open Open Open Open





DMA PP 2181         DMA_LIN_3540         DMA_LIN_3540         D27141         0.0000         0.300         2.2070         0.118         0.0000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000         0.000 <t< th=""><th>ID</th><th>From Node</th><th>To Node</th><th>Length (m)</th><th>Diameter (mm)</th><th>Roughness (mm)</th><th>Flow (L/s)</th><th>Velocity (m/s)</th><th>Headloss (m)</th><th>HL/1000 (m/k-m)</th><th>Status</th></t<>	ID	From Node	To Node	Length (m)	Diameter (mm)	Roughness (mm)	Flow (L/s)	Velocity (m/s)	Headloss (m)	HL/1000 (m/k-m)	Status
DAM, Pp. 2181         DMA.VA1         DAV.3200         44.0000         0.300         44.7005         0.3478         0.178         0.1291         0.301         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011         0.2011 <t< td=""><td>DMM PIP 2183</td><td>DMM JUN 2654</td><td>DMM JUN 3046</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Open</td></t<>	DMM PIP 2183	DMM JUN 2654	DMM JUN 3046								Open
DMM_PP_2191A         DMM_ALM_2800         H 8501         44.0000         0.3000         4.7105         0.3714         0.0340         6.3702         0.0340         6.3702         0.0340         6.3702         0.0340         6.3702         0.0340         6.3702         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340         0.0340											
print Print Print DMM_PR_2380         DMM_JM_S280         DMM_JM_S280 <thdmm_jm_s280< th=""> <thdmm_jm_s280< th=""> <thdmm_jm_< td=""><td></td><td></td><td>DMM_JUN_2630</td><td></td><td></td><td></td><td></td><td></td><td>0.0304</td><td></td><td>Open</td></thdmm_jm_<></thdmm_jm_s280<></thdmm_jm_s280<>			DMM_JUN_2630						0.0304		Open
DMM_PP_3190         DMM_LXM_3042         DMM_XLP         D144_ZPR         D145_ZPR         D147_ZPR		DMM_JUN_2630	DMM_JUN_3042	61.5293	400.0000	0.3000	20.1099	0.1600	0.0046	0.0740	Open
proj         DMA/241         DMA_JRJ, 276         F1 544         300.000         0.100         23.721         0.3302         D.0322         0.3306         D.0322         D.3306         D.0302         D.0300         D.0302         D.0300         D.0302         D.0300         D.0300 <thd.0300< th=""> <thd.0300< th=""> <thd.030< td=""><td>P761</td><td></td><td>DMAV294</td><td>194.9822</td><td></td><td></td><td></td><td></td><td></td><td></td><td>Open</td></thd.030<></thd.0300<></thd.0300<>	P761		DMAV294	194.9822							Open
DMM, pp. 386         DMM, J.N. 304         DMM, J.N. 2010         DMM, J.N. 2010 <thdmm, 2010<="" j.n.="" th="">         DMM, J.N. 2010         D</thdmm,>											Open
DAM, pp 3:61.         DBM, JUN, SMG         DMM, JUN, SMG         D144         DMM SMG         DMM SMG<											Open
DAM. JP: 3166.         DBM. JULY 370         DAM. JULY 371         DAM. JU											
DMM, PP         2919         DMM, JUN, 2730         D-MM, JUN, 2732         D-MM, JUN, 2734         D-MM, JUN, 3736         D-MM, JUN, 3737         D-MM, JUN, 3737         <											
Dam. Jpp. 2287()         DM. JW, 2720         J-14         249.3807         J.00000         0.3000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000				_							
DMM, PIP. 2287;         DMM, VM, E152         DMM, VM, E152         D17.1787         LD00000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000        0.0000											Open
DAM. PP_2897(2)         J-14         DMM. VIX_8152         391 3947         10.00000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000				_							Open
DMA. prp. 3407         DMM. JUN, 2722         DMM. JUN, 2724         Geo.         DMM. 2012         DMM. 2013			DMM_VAL_8152	381.3947	1,000.0000	0.3000	0.0000	0.0000	0.0000	0.0000	Closed
DMM_PP_3171         DMM_UL_VI_3352         DMM_ULV_2374         66.2322         1.000.000         0.0001         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000 </td <td>DMM_PIP_2185</td> <td>DMM_JUN_2656</td> <td>DMM_JUN_2732</td> <td>209.3597</td> <td>1,000.0000</td> <td>0.3000</td> <td>0.0000</td> <td>0.0000</td> <td>0.0000</td> <td>0.0000</td> <td>Open</td>	DMM_PIP_2185	DMM_JUN_2656	DMM_JUN_2732	209.3597	1,000.0000	0.3000	0.0000	0.0000	0.0000	0.0000	Open
DMM_ptp_3400         DMM_x1N_3032         DMA/x282         15.8776         400.000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000											Open
prgri DMM, prp. 2117         DMM.VV/22         DMM.JUR.3064         12.9162         400.000         0.3000         0.0000         0.0000         0.0000         D0.0000											Open
DMM. pp: 2411         DMM. JUN, 2734         DMM. JUN, 2734         DMM. JUN, 3576         DMM. JUN, 3561         DMM. JUN											
DMM, PP 3177         DMM_UUK_3068         DMM_UIK_3378         DMM_UIK_3378<											· ·
DMM, pp 3881         DMM_UU_3376         DMM_V233         DMM_V13306         Z24404         Open         D4123         Open         DMM_V233         DMM_V117330         Z2453         V00000         3300         Z42431         Obes         D0131         O4442         Open           DMM_UP 12315         DMM_U117306         DMM_U117306         DMM_U117308         Z3353         V00000         3300         Z42431         0.0005         0.0005         Open         DMM_V117336         DMM_V233         DMM/V333         DMM/V3333         DMM/V3333         DMM											
DMM, PIP 3179         DMM, JUN 3378         DMA/V283         E.687         400.0000         0.0000         0.0000         0.0000         0.0000         D0000         D0000         D0000         D0000         D0000         D0000         D0000         D0000         D0000         D00000         D442 D44         D0668         D0010         D0442 D44         D00000         D00000         D442 D44         D00680         D00140         D00000         D00000         D3000         P3636         D1444         D00006         D3000         P36365         D1444         D00006         D3000         P378365         D1444         D00006         D3000         P378365         D1444         D00066         D0149         D149         P3187         DMM, JUN 3736         DMM											· ·
prp:         DHAV:293         DHA.JUN.3376         18:9144         400.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.0000         0.00000         0.0000         0.0000         <											<u> </u>
DMM, PP 3165         DMM, JUN, 3062         DMM, VIN, 3064         DMM, VIN, 3064         DMM, VIN, 3064         DMM, VIN, 3064         DMM, VIN, 3066         DMM, VIN, 3068         DMM VIN, VIN, 3066         DMM, VIN, 2078         DMM/VIN, VIN, 3068         DMM VIN, 2078         DMM/VIN, 2078         DMM/VIN, 2080         DMM VIN, 2080											Open
DMM, PIP, 3185A         DMM, VIN, 3060         DMM, JUN, 3070         DMM, JUN, 3070         DMM, JUN, 2736         DMM, JUN, 3064         OF 95434         J000000         0.3000         4524341         O.6668         O.0014         O.0668         O.0014         O.0668         O.0114         O.0669         O.0014         O.0669         O.0114         O.0669         O.0114         O.0669         O.0114         O.0669         O.0114         O.0669         O.0144         O.0669         O.0144         O.0669         O.0142         O.0669         O.0142         O.0669         O.0142         O.0669         O.0142         O.0669         O.0142         O.0009         O.0300         12,2573         O.0124         O.0006         O.0509         O.0142         O.0005         O.0009         O.0009         O.0142         O.0005         O.0009         O.0009         O.0142         O.0005         O.0015         O.1232         O.0016         O.0016         O.0016         O.0016         O.0016         O.0016         O.0016         O.0016 <td></td> <td>DMM JUN 3062</td> <td></td> <td></td> <td>400.0000</td> <td>0.3000</td> <td>52.1696</td> <td>0.4152</td> <td>0.0062</td> <td>0.4490</td> <td>Open</td>		DMM JUN 3062			400.0000	0.3000	52.1696	0.4152	0.0062	0.4490	Open
DMM, Pip 3183         DMM_JUN 3062         DMM_JUN 2736         DMM_JUN 3064         DMM_JUN 3070         118099         400.0000         0.3000         45.2444         0.0066         0.0314         Open 3000         9.76805         0.1244         0.0006         0.0006         0.0006         0.0006         0.0006         0.0006         0.0006         0.0006         0.0006         0.0006         0.0006         0.0006         0.0006         0.0006         0.0006         0.0000         0.3000         119173         0.1244         0.0006         0.0000         0.3000         119173         0.1528         0.0005         0.0867         Open 308           DMM_JUN 2738         DMM_JUN 276         572.1145         1.000.000         0.3000         1117.8119         0.1528         0.0026         0.0210         0.0210         0.0210         0.0210         0.0210         0.0210         0.0210         0.0210         0.0210         0.0210         0.0210         0.0210         0.0210         0.02112         0.0000         0.0000			DMM_JUN_3060	25.2030	400.0000	0.3000	52.1696	0.4152	0.0113		Open
DMM_ PIP_3193         DMMUIN_3064         DMMUIN_3068         DMMUIN_2788         DMMUIN_2788         DMMUIN_2788         DMMUIN_2786         DMMUIN_30000         0.3000         118173         D1560         0.0007         0.0000         0.3000         117.8178         D.0000         0.3000         117.8178         D.0000         0.3000         117.8178         D.0000         0.3000         117.8178         D.0000         0.3000         117.8178         D.00028         D.02128         D.0212         Depr           DMM_UN_2878         DMM_UN_2976         572.1145         1.000000         0.3000         117.8272         1.400000         0.3000         1009.2366         0.6556         0.0022         0.2247 <td>DMM_PIP_3183</td> <td>DMM_JUN_3062</td> <td>DMM_JUN_2736</td> <td>204.8566</td> <td>1,000.0000</td> <td>0.3000</td> <td>-52.4391</td> <td>0.0668</td> <td>0.0010</td> <td>0.0047</td> <td>Open</td>	DMM_PIP_3183	DMM_JUN_3062	DMM_JUN_2736	204.8566	1,000.0000	0.3000	-52.4391	0.0668	0.0010	0.0047	Open
DMM_ PIP_3197         DMMUN_3064         DMMUN_2788         593.0296         1000.000         0.3000         162573         0.1244         0.0096         0.0500         Ope           DMM_ PIP_3195         DMMUN_3066         DMMUN_3066         DMMUN_3066         DMMUN_3066         0.0000         0.3000         16.2573         0.0116         0.1528         0.0016         0.0580         Ope           DMM_PIP_3195         DMM_2UN_2738         DMM_2UN_2736         42.8756         14.2603         400.0000         0.3000         19.1973         0.1528         0.0102         0.0680         Ope           DMM_PIP_3053         DMM_VAL_514         DMM_UN_2776         42.8756         1.00.0000         0.3000         117.8119         0.1500         0.0028         0.0212         Ope           DMM_PIP_3053         DMM_UN_2738         DMM_UN_2766         572.1145         1.000.0000         0.3000         117.8119         0.1500         0.0028         0.0212         Ope           DMM_PIP_3054         DMM_UN_2788         DMM_UN_2814         132.410         1.000.2000         0.3000         1100.2180         0.02230         0.0556         0.0028         0.0212         Ope           DMM_PIP_3055         DMM_UN_281812         1.3556         1.400.0000 <td>DMM_PIP_2417</td> <td>DMM_JUN_2736</td> <td></td> <td>679.5434</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Open</td>	DMM_PIP_2417	DMM_JUN_2736		679.5434							Open
DMM_ PP: 3497         DMM_ JUN_ 3066         DMM_ JUN_ 3070         11.8999         400.0000         0.3000         72.137         0.1294         0.0016         0.1333         Operation           DMM_ JUN_ 3066         DMM_ JUN_ 3066         DMM_ JUN_ 30786         DMM_ JUN_ 30786         DMM_ JUN_ 30786         DMM_ JUN_ 3078         0.0016         0.1333         Operation         0.0165         0.1333         Operation         0.0165         0.1333         Operation         0.0165         0.1333         Operation         0.0165         0.0120         0.0165         0.0120         0.0006         0.0000         1.017 8119         0.1500         0.0000         0.0000         1.017 8119         0.1500         0.0000         0.0000         1.012 0         0.0120         0.0212         Operation         Operation         0.0000         1.000 2000         0.3000         1.117 8119         0.1500         0.0120         0.0212         Operation         0.0120         0.02120         0.01212         Operation	DMM_PIP_3193										Open
DMM_ PIP_3498         DMM_ JUN_3086         DMM_ JUN_3278         DMM_ JUN_2778         JUN_3284         DMM_ JUN_2778         JUN_3284         DMM_ JUN_2778         JUN_3287         JUN_3287 <thjun_3287< th=""> <thjun_3287< th="">         J</thjun_3287<></thjun_3287<>											Open
DMM_ PIP_3189         DMM_JUN_2738         DMAV53         14.2863         400.0000         0.3000         19.1973         0.1528         0.0010         0.06879         Open           DMM_ PIP_3053         DMM_VS1         DMM_VS1         DMM_VS1         DMM_VS1         0.0679         Open           DMM_ PIP_3053         DMM_VS1         DMM_VS1         DMM_VS1         DMM_VS1         0.0699         0.0679         Open           DMM_ PIP_3053         DMM_UN_2788         DMM_UN_276         572.1145         1.000.0000         0.3000         117.8119         0.1500         0.0202         0.0210         Ope           DMM_ PIP_3043         DMM_UN_2800         ZMM_VS1         TAVK.71.95         DMM_UN_2800         24.894         1.400.0000         0.3000         1.079.2369         0.6556         0.0032         0.2350         Ope           P113         J54         TAVK.71.PS         DMM_UN_2280         24.894         1.400.0000         0.3000         1.099.2369         0.6556         0.0032         0.2350         Ope           P13         J54         TAVK.71.PS         DMM_UN_2280         24.894         1.400.0000         0.3000         1.099.2369         0.6556         0.0032         0.2347         Ope           P141											· ·
DMM_UIN_2738A         DMM_VAL_8184         DMM_2915         37.0639         400.0000         0.3000         19.1973         0.1528         0.0025         0.0679         Operation           DMM_PIP_30S3         DMM_VAL_8184         DMM_JUN_2976         42.8756         1.000.0000         0.3000         1177.8119         0.1500         0.0025         0.0212         Operation           DMM_PIP_30S3         DMM_JUN_2786         To Node         Length (m)         Diameter (m)         Roughness         Flow (m)         Velocity (m)         Headloss         HL/1000         0.0212         Operation         Operation <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											
DMM_PIP_3053         DMM_VAL_8184         DMM_UIP_2976         42.8756         1,000.0000         0.3000         117.8119         0.1500         0.0009         0.0212         Openational and the second and th											· ·
ID         From Node         To Node         Length (m)         Diameter (m)         Roughness (m)         Flow (Us)         Velocity (Ms)         Headloss (ms)         HL/1000 (m/k-m)           DMM_PIP_3043         DMM_JUN_2880         DMM_JUN_2876         Ti Sto401         1,400.0000         0.3000         1,009.2869         0.6556         0.0032         0.2384         Ope           DMM_PIP_3049         JS4         TANK_71_PS         Ti Sto401         1,400.0000         0.3000         1,009.2869         0.6556         0.0035         0.2384         Ope           DMM_PIP_3523         DMM_JUN_2778         Ti Sto400         1,400.0000         0.3000         4877288         0.6210         0.1874         0.3176         Ope           DMM_PIP_3533         DMM_JUN_2824         DMM_JUN_2826         Ti Ti Ti Ti Di0.0000         0.3000         282.0519         0.3591         0.0013											
LU         From Node         10 Node         (m)         (mm)											
DMM_PIP_2421         DMM_JUN_2738         DMM_JUN_2976         (m)         (	10				D: 1	-	El				
DMM_PIP_3043         DMM_VAL_8182         DMM_VAL_8186         DMM_VAL_8284         DMM_VAL_8186         DA160 0000         0.3000         4877286         0.6210         0.1874         0.3176         DMM         DMM_VAL_8284         DMM_VAL_8284         B6864         0.0000         0.3000         4877286         0.6210         0.1170         Ope           DMM_PIP_3537         DMM_VAL_8284         DMM_VAL_8284         B6864         1.000.0000         0.3000         282.0519         0.3591         0.0020         0.1107         Ope           DMM_PIP_3533         DMM_VAL_8244         DMM_VAL_8246         B6864         1.000.0000         0.3000         282.6519         0.3591         0.0022         0.1104	ID I	English Manda	To Maria	Length	Diameter	Roughness	FIOW	velocity	Headloss	HL/1000	Chattan
TANK710UTLET         DMM_VAL_8182         DMM_UVL_8182         DMM_VAL_8182         136756         1,400,0000         0.3000         1,009,2369         0,6556         0,0032         0,2347         Ope           DMM_PP_309         DMM_VAL_8186         13,3556         1,200,000         0,3000         1,009,2369         0,6556         0,0032         0,2347         Ope           PB13         J54         TANK,71_PS         15,5040         1,400,0000         0,3000         1009,2369         0,6556         0.0036         0,2348         Ope           DMM_PP_3055         DMM_VAL_8166         DMM_JUN_2978         16,1688         1,200,000         0,3000         487,7268         0,0651         0,0442         Ope           DMM_PP_3559         DMM_JUN_2878         DMM_JUN_2824         11,5117         1,000,0000         0,3000         487,7268         0,6210         0,1874         0,3176         Ope           DMM_PP_3535         DMM_JUN_3284         DMM_JUN_2394         36,0595         700,0000         0,3000         282,0519         0,3591         0,0020         0,1104         Ope           DMM_PP_3531         DMM_JUN_2382         DMM_JUN_2394         36,059         700,0000         0,3000         263,436         0,2616         0,0068         0,602				(m)	(mm)	(mm)	(L/s)	(m/s)	(m)	(m/k-m)	
DMM_PIP_3049         TANK_71_PS         DMM_VAL_8182         13.6765         1.400.0000         0.3000         1.009.2369         0.6556         0.0032         0.2347         Ope           PB13         J54         TANK_71_PS         DMM_VAL_8186         31.3356         1.200.0000         0.3000         1.009.2369         0.6556         0.0038         0.2348         Ope           DMM_PIP_3529         DMM_VAL_8186         DMM_JUN_2978         16.1688         1.200.0000         0.3000         890.7926         0.7876         0.0065         0.4044         Ope           DMM_PIP_3529         DMM_VAL_8246         DMM_JUN_2382         590.1604         1.000.0000         0.3000         487.7268         0.6210         0.1874         0.3176         Ope           DMM_PIP_3537         DMM_JUN_3282         DMM_JUN_3282         DMM_JUN_3282         DMM_JUN_2391         0.3000         282.0519         0.3591         0.0013         0.1107         Ope           DMM_PIP_3531         DMM_JUN_2324         DMM_JUN_2392         0.1774         1.200.0000         0.3000         282.616         0.0068         0.6062         Ope           DMM_PIP_3531         DMM_JUN_2329         DMM_JUN_2392         0.1774         1.200.0000         0.3000         2054186         0.2392<	DMM_PIP_2421	DMM_JUN_2738	DMM_JUN_2976	(m) 572.1145	(mm) 1,000.0000	(mm) 0.3000	(L/s) -117.2872	(m/s) 0.1493	(m) 0.0120	(m/k-m) 0.0210	Open
DMM_PIP_2201         DMM_UN_2980         DMM_VAL_8186         31.3356         1.200.0000         0.3000         880.7926         0.7876         0.0027         0.4042         Ope           PB13         J34         TANK_TI_PS         15.5040         1.400.000         0.3000         10.09.2369         0.6556         0.0036         0.2348         Ope           DMM_PIP_3655         DMM_VAL_8166         DMM_JUN_23281         590.1604         1.000.0000         0.3000         487.7288         0.6210         0.1874         0.3176         Ope           DMM_PIP_3535         DMM_JUN_2282         DMM_VAL_8246         1.001.0000         0.3000         282.0519         0.3591         0.0020         0.1107         Ope           DMM_PIP_3535         DMM_JUN_3282         DMM_VAL_8246         18.0664         1.000.0000         0.3000         282.0519         0.3591         0.0020         0.1107         Ope           DMM_PIP_3533         DMM_JUN_3282         DMM_JUN_2394         36.0959         700.0000         0.3000         285.488         0.7297         0.0242         0.6709         Ope           DMM_PIP_3833         DMM_JUN_2392         JMM_JUN_348         0.7184         1.000.0000         0.3000         265.4385         0.2016         0.01519 <t< td=""><td>DMM_PIP_2421 DMM_PIP_3043</td><td>DMM_JUN_2738 DMM_JUN_2980</td><td>DMM_JUN_2976 DMM_VAL_8184</td><td>(m) 572.1145 132.4107</td><td>(mm) 1,000.0000 1,000.0000</td><td>(mm) 0.3000 0.3000</td><td>(L/s) -117.2872 117.8119</td><td>(m/s) 0.1493 0.1500</td><td>(m) 0.0120 0.0028</td><td>(m/k-m) 0.0210 0.0212</td><td>Open Open</td></t<>	DMM_PIP_2421 DMM_PIP_3043	DMM_JUN_2738 DMM_JUN_2980	DMM_JUN_2976 DMM_VAL_8184	(m) 572.1145 132.4107	(mm) 1,000.0000 1,000.0000	(mm) 0.3000 0.3000	(L/s) -117.2872 117.8119	(m/s) 0.1493 0.1500	(m) 0.0120 0.0028	(m/k-m) 0.0210 0.0212	Open Open
p813         J54         TANK_71_PS         15.040         1,400.0000         0.3000         1.009.2369         0.6556         0.0036         0.2348         Ope           DMM_PIP_3052         DMM_VLA_8186         DMM_JUN_2978         T61.1688         1.200.000         0.3000         480.7226         0.7876         0.0065         0.4044         Ope           DMM_PIP_3537         DMM_VLA_8246         DMM_JUN_3284         115117         1.000.0000         0.3000         282.0519         0.3591         0.0013         0.1107         Ope           DMM_PIP_3335         DMM_JUN_3282         DMM_JUN_23264         18.0664         1.000.0000         0.3000         282.0519         0.3591         0.0020         0.1104         Ope           DMM_PIP_3335         DMM_JUN_3282         DMM_JUN_2390         13.3610         1.000.0000         0.3000         286.3848         0.7297         0.0242         0.6709         Ope           DMM_PIP_1137         DMM_JUN_2390         DMM_JUN_2392         J1.794         1.200.0000         0.3000         205.4116         0.0008         0.0243         Ope           DMM_PIP_1413         DMM_JUN_3348         DMM_UN_3348         1.7164         1.000.0000         0.3000         146.1144         0.18665         0.2754	DMM_PIP_2421 DMM_PIP_3043 TANK71OUTLET	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980	(m) 572.1145 132.4107 24.8994	(mm) 1,000.0000 1,000.0000 1,400.0000	(mm) 0.3000 0.3000 0.3000	(L/s) -117.2872 117.8119 1,009.2369	(m/s) 0.1493 0.1500 0.6556	(m) 0.0120 0.0028 0.0059	(m/k-m) 0.0210 0.0212 0.2350	Open Open Open
DMM_PIP_3055         DMM_VAL_8186         DMM_UN_2978         16.1688         1,200.0000         0.3000         490.7926         0.7876         0.0065         0.4044         Ope           DMM_PIP_3529         DMM_UN_2978         DMM_UN_3282         590.1604         1,000.0000         0.3000         487.7288         0.6210         0.1874         0.3176         Ope           DMM_PIP_3535         DMM_UN_3284         DMM_UN_23244         115.117         1,000.0000         0.3000         282.0519         0.3591         0.0013         0.1104         Ope           DMM_PIP_3535         DMM_UN_3284         DMM_UN_2394         36.0595         700.0000         0.3000         280.3484         0.7297         0.0242         0.6709         Ope           DMM_PIP_3535         DMM_JUN_3282         DMM_JUN_2392         31.7794         1.200.0000         0.3000         205.4385         0.2616         0.0008         0.0241         Ope           DMM_PIP_1137         DMM_JUN_2392         DMM_3406         6.5543         1.200.0000         0.3000         205.4316         0.0000         0.3001         205.4316         0.00000         0.3001         205.4316         0.00000         0.3001         205.4316         0.00000         0.3001         205.4316         0.00000	DMM_PIP_2421 DMM_PIP_3043 TANK71OUTLET DMM_PIP_3049	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182	(m) 572.1145 132.4107 24.8994 13.6756	(mm) 1,000.0000 1,000.0000 1,400.0000 1,400.0000	(mm) 0.3000 0.3000 0.3000 0.3000	(L/s) -117.2872 117.8119 1,009.2369 1,009.2369	(m/s) 0.1493 0.1500 0.6556 0.6556	(m) 0.0120 0.0028 0.0059 0.0032	(m/k-m) 0.0210 0.0212 0.2350 0.2347	Open Open Open Open
DMM_PIP_3529         DMM_JUN_2978         DMM_JUN_3282         590.1604         1,000.0000         0.3000         487.7268         0.6210         0.1874         0.3176         Ope           DMM_PIP_3537         DMM_JUN_3282         DMM_JUN_3284         DIMM_JUN_3284         DIMM_JUN_3282         DMM_JUN_3282         DMM_JUN_3282         DMM_JUN_3282         DMM_JUN_3282         DMM_JUN_2394         36.0959         700.0000         0.3000         280.0519         0.3591         0.0020         0.1104         Ope           DMM_PIP_3533         DMM_JUN_3282         DMM_JUN_2390         13.3610         1,000.0000         0.3000         280.518         0.2616         0.0008         0.0662         Ope           DMM_PIP_3531         DMM_JUN_2390         DMM_JUN_2390         13.3610         1,000.0000         0.3000         205.4116         0.1816         0.0008         0.0622         Ope           DMM_PIP_1143         DMM_JUN_2392         DMM_JUN_348         0.7164         1,000.0000         0.3000         205.3875         0.816         0.0026         0.0211         Ope           DMM_PIP_3631         DMM_JUN_348         DMM_JUN_3211         1,000.0000         0.3000         146.1144         0.1860         0.0026         0.0317         Ope           DMM_PIP_3633	DMM_PIP_2421 DMM_PIP_3043 TANK71OUTLET DMM_PIP_3049 DMM_PIP_2201	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186	(m) 572.1145 132.4107 24.8994 13.6756 31.3356	(mm) 1,000.0000 1,000.0000 1,400.0000 1,400.0000 1,200.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) -117.2872 117.8119 1,009.2369 1,009.2369 890.7926	(m/s) 0.1493 0.1500 0.6556 0.6556 0.7876	(m) 0.0120 0.0028 0.0059 0.0032 0.0127	(m/k-m) 0.0210 0.0212 0.2350 0.2347 0.4042	Open Open Open Open Open
DMM_PIP_3537         DMM_VAL_8246         DMM_UN_3282         DIMM_UN_3284         DIMM_VAL_8246         11.5117         1,000.000         0.3000         282.0519         0.3591         0.0013         0.1107         Ope           DMM_PIP_3535         DMM_UN_3282         DMM_UN_3284         DMM_UN_3294         60.6959         700.0000         0.3000         280.8348         0.0220         0.1104         Ope           DMM_PIP_3531         DMM_UN_3284         DMM_UN_3293         DMM_UN_3293         DMM_UN_3293         0.0421         0.6709         Ope           DMM_PIP_1351         DMM_JUN_3282         DMM_JUN_3293         DMM_4UN_3293         0.7774         1.200.0000         0.3000         205.4116         0.0008         0.0243         Ope           DMM_PIP_133         DMM_JUN_3348         DMM_4L_8248         19.8999         400.0000         0.3000         180.7807         0.2302         0.0000         0.0241         0.0252         Ope           DMM_PIP_3631         DMM_JUN_3348         DMM_4L_8248         19.8999         400.0000         0.3000         146.1144         0.1860         0.00316         Ope           DMM_PIP_3631         DMM_JUN_3348         DMM_4UN_3288         33.1554         1000.0000         0.3000         146.1144         0.1868	DMM_PIP_2421 DMM_PIP_3043 TANK71OUTLET DMM_PIP_3049 DMM_PIP_2201 P813	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS	(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040	(mm) 1,000.0000 1,000.0000 1,400.0000 1,200.0000 1,400.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) -117.2872 117.8119 1,009.2369 1,009.2369 890.7926 1,009.2369	(m/s) 0.1493 0.1500 0.6556 0.6556 0.7876 0.6556	(m) 0.0120 0.0028 0.0059 0.0032 0.0127 0.0036	(m/k-m) 0.0210 0.0212 0.2350 0.2347 0.4042 0.2348	Open Open Open Open Open Open
DMM_PIP_3533         DMM_JUN_3284         DMM_JUN_2394         36.0959         700.0000         0.3000         280.8348         0.7297         0.0242         0.6709         Ope           DMM_PIP_3531         DMM_JUN_3282         DMM_JUN_2390         DJ3.810         1,000.0000         0.3000         205.4385         0.2616         0.0008         0.0662         Ope           DMM_PIP_1143         DMM_JUN_2392         DMM_JAG6         6.5543         1,200.0000         0.3000         205.4116         0.1816         0.0002         0.0241         Ope           DMM_PIP_2617         DMM_JUN_3348         DMM_JUN_3348         0.7164         1,000.0000         0.3000         245.6375         0.1816         0.0041         0.2052         Ope           DMM_PIP_3631         DMM_JUN_3348         DMM_JUN_3350         23.1385         400.0000         0.3000         34.6065         0.2754         0.0041         0.2052         Ope           DMM_PIP_3633         DMM_VAL_8248         DMM_JUN_3350         23.1385         400.0000         0.3000         34.6065         0.2754         0.0048         0.2054         Ope           DMM_PIP_3623         DMM_JUN_2814         DMM_JUN_3286         16.0531         400.0000         0.3000         96.074         0.1222	DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3055	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978	(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040 16.1688	(mm) 1,000.0000 1,000.0000 1,400.0000 1,400.0000 1,200.0000 1,400.0000 1,200.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) -117.2872 117.8119 1,009.2369 1,009.2369 890.7926 1,009.2369 890.7926	(m/s) 0.1493 0.1500 0.6556 0.6556 0.7876 0.6556 0.7876	(m) 0.0120 0.0028 0.0059 0.0032 0.0127 0.0036 0.0065	(m/k-m) 0.0210 0.0212 0.2350 0.2347 0.4042 0.2348 0.2348 0.4044	Open Open Open Open Open
DMM_PIP_3531         DMM_JUN_3282         DMM_JUN_2390         13.3610         1,000.0000         0.3000         205.4385         0.2616         0.0008         0.0602         Ope           DMM_PIP_1137         DMM_JUN_2390         DMM_JUN_2392         31.7794         1,200.0000         0.3000         205.4116         0.1816         0.0008         0.0243         Ope           DMM_PIP_1617         DMM_JUN_2392         DMM_3406         6.5543         1,200.0000         0.3000         180.7807         0.2302         0.0000         0.0021         0.0058         0.0011         0.2052         Ope           DMM_PIP_3631         DMM_JUN_3348         DMM_JUN_2814         113.1321         1,000.0000         0.3000         146.1144         0.1860         0.0036         0.0317         Ope           DMM_PIP_3631         DMM_JUN_2814         DMM_JUN_3288         333.1554         1,000.0000         0.3000         146.1144         0.1858         0.0105         0.0316         Ope           DMM_PIP_3641         DMM_JUN_3288         333.1554         1,000.0000         0.3000         145.9449         0.1858         0.0105         0.0316         Ope           DMM_PIP_2621         DMM_JUN_2816         DMM_JUN_3282         321.1077         1,000.0000         0.3000 <td>DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_3049 P813 DMM_PIP_3055 DMM_PIP_3529</td> <td>DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_VUN_2980 J54 DMM_VAL_8186 DMM_VAL_8186</td> <td>DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_282</td> <td>(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604</td> <td>(mm) 1,000.0000 1,000.0000 1,400.0000 1,400.0000 1,200.0000 1,200.0000 1,000.0000</td> <td>(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000</td> <td>(L/s) -117.2872 117.8119 1,009.2369 1,009.2369 890.7926 1,009.2369 890.7926 487.7268</td> <td>(m/s) 0.1493 0.1500 0.6556 0.6556 0.7876 0.6556 0.7876 0.6210</td> <td>(m) 0.0120 0.0028 0.0059 0.0032 0.0127 0.0036 0.0065 0.1874</td> <td>(m/k-m) 0.0210 0.0212 0.2350 0.2347 0.4042 0.2348 0.4044 0.3176</td> <td>Open Open Open Open Open Open Open</td>	DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_3049 P813 DMM_PIP_3055 DMM_PIP_3529	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_VUN_2980 J54 DMM_VAL_8186 DMM_VAL_8186	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_282	(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604	(mm) 1,000.0000 1,000.0000 1,400.0000 1,400.0000 1,200.0000 1,200.0000 1,000.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) -117.2872 117.8119 1,009.2369 1,009.2369 890.7926 1,009.2369 890.7926 487.7268	(m/s) 0.1493 0.1500 0.6556 0.6556 0.7876 0.6556 0.7876 0.6210	(m) 0.0120 0.0028 0.0059 0.0032 0.0127 0.0036 0.0065 0.1874	(m/k-m) 0.0210 0.0212 0.2350 0.2347 0.4042 0.2348 0.4044 0.3176	Open Open Open Open Open Open Open
DMM_PIP_1137         DMM_JUN_2390         DMM_JUN_2392         31.7794         1,200.0000         0.3000         205.4116         0.1816         0.0008         0.0243         Ope           DMM_PIP_2617         DMM_JUN_2392         DMM_JUN_3406         6.5543         1,200.0000         0.3000         205.3875         0.1816         0.0002         0.0241         Ope           DMM_PIP_2617         DMM_JUN_3348         DMM_VL_8248         19.9899         400.0000         0.3000         146.0865         0.2754         0.0041         0.2052         Ope           DMM_PIP_3637         DMM_JUN_3348         DMM_JUN_2814         113.1321         1,000.0000         0.3000         146.1444         0.1860         0.0317         Ope           DMM_PIP_3633         DMM_VL_8248         DMM_JUN_3280         23.1385         400.0000         0.3000         146.144         0.1860         0.0036         0.0317         Ope           DMM_PIP_2621         DMM_JUN_2814         DMM_JUN_3288         333.1551         1,000.0000         0.3000         145.9449         0.1858         0.0105         0.0317         Ope           DMM_PIP_2623         DMM_JUN_3288         DMM_JUN_2816         149.5690         1,000.0000         0.3000         145.9449         0.1856         0.002	DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3055 DMM_PIP_3055 DMM_PIP_3537	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_VAL_8186 DMM_VAL_8246	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_3282 DMM_JUN_3284	(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117	(mm) 1,000.0000 1,000.0000 1,400.0000 1,400.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) -117.2872 117.8119 1,009.2369 1,009.2369 890.7926 1,009.2369 890.7926 487.7268 282.0519	(m/s) 0.1493 0.1500 0.6556 0.6556 0.7876 0.6556 0.7876 0.6556 0.7876 0.6210 0.3591	(m) 0.0120 0.0028 0.0059 0.0032 0.0127 0.0036 0.0065 0.1874 0.0013	(m/k-m) 0.0210 0.0212 0.2350 0.2347 0.4042 0.2348 0.4044 0.3176 0.1107	Open Open Open Open Open Open Open Open
DMM_PIP_1143         DMM_JUN_2392         DMM_4406         6.5543         1,200.0000         0.3000         205.3875         0.1816         0.0002         0.0241         Ope           DMM_PIP_2617         DMM_3406         DMM_UN_3348         0.7164         1,000.0000         0.3000         180.7807         0.2302         0.0000         0.0519         Ope           DMM_PIP_3627         DMM_JUN_3348         DMM_VAL_8248         19.899         400.0000         0.3000         34.6065         0.2754         0.0041         0.2052         Ope           DMM_PIP_3633         DMM_VAL_8248         DMM_JUN_2814         113.1321         1,000.0000         0.3000         146.1144         0.6055         0.2754         0.0048         0.2054         Ope           DMM_PIP_3633         DMM_VAL_8248         DMM_JUN_3286         333.1554         1,000.0000         0.3000         145.9449         0.1858         0.0155         0.0316         Ope           DMM_PIP_2627         DMM_JUN_2816         DMM_JUN_3286         IGO.511         400.0000         0.3000         96.074         0.1222         0.0022         0.0144         Ope           DMM_PIP_2623         DMM_JUN_2816         DMM_JUN_3292         321.1077         1,000.0000         0.3000         19.5591	DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3555 DMM_PIP_3537 DMM_PIP_3535 DMM_PIP_3533	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_29800 J54 DMM_VAL_8186 DMM_JUN_2978 DMM_VAL_8246 DMM_JUN_3282 DMM_JUN_3284	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_2828 DMM_JUN_2824 DMM_VAL_8246 DMM_JUN_2394	(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959	(mm) 1,000.0000 1,400.0000 1,400.0000 1,200.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000 700.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) -117.2872 117.8119 1,009.2369 1,009.2369 890.7926 487.7268 282.0519 282.0519 282.0519 280.8348	(m/s) 0.1493 0.1500 0.6556 0.6556 0.7876 0.6556 0.7876 0.6210 0.3591 0.3591 0.7297	(m) 0.0120 0.0028 0.0059 0.0032 0.0127 0.0036 0.0065 0.1874 0.0013 0.0020 0.0242	(m/k-m) 0.0210 0.0212 0.2350 0.2347 0.4042 0.2348 0.4044 0.3176 0.1107 0.1104 0.6709	Open
DMM_PIP_2617         DMM_3406         DMM_JUN_3348         0.7164         1,000.0000         0.3000         180.7807         0.2302         0.0000         0.0519         Ope           DMM_PIP_3631         DMM_JUN_3348         DMM_VAL_8248         19.9899         400.0000         0.3000         34.6065         0.2754         0.0041         0.2052         Ope           DMM_PIP_3633         DMM_JUN_3348         DMM_JUN_2814         113.1321         1,000.0000         0.3000         34.6065         0.2754         0.0041         0.2052         Ope           DMM_PIP_3633         DMM_VAL_8248         DMM_JUN_3350         23.1385         400.0000         0.3000         146.1144         0.1860         0.0048         0.2054         Ope           DMM_PIP_2621         DMM_JUN_2814         DMM_JUN_3288         333.1554         1,000.0000         0.3000         145.9449         0.1858         0.0105         0.0316         Ope           DMM_PIP_2627         DMM_JUN_2816         DMM_JUN_3286         16.0531         400.0000         0.3000         49.5721         0.3945         0.0065         0.4073         Ope           DMM_PIP_2629         DMM_JUN_3292         DMAV67         4.3482         400.0000         0.3000         19.5591         0.1556 <t< td=""><td>DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_3049 DMM_PIP_3055 DMM_PIP_3529 DMM_PIP_3537 DMM_PIP_3533 DMM_PIP_3533 DMM_PIP_3531</td><td>DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_JUN_2978 DMM_VAL_8246 DMM_JUN_3284 DMM_JUN_3284</td><td>DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_3284 DMM_JUN_3284 DMM_VAL_8246 DMM_JUN_2394</td><td>(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959 13.3610</td><td>(mm) 1,000.0000 1,400.0000 1,400.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000 700.0000 1,000.0000</td><td>(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000</td><td>(L/s) -117.2872 117.8119 1,009.2369 890.7926 1,009.2369 890.7926 487.7268 282.0519 282.0519 282.0519 282.0519 282.0519</td><td>(m/s) 0.1493 0.1500 0.6556 0.6556 0.7876 0.6556 0.7876 0.6210 0.3591 0.3591 0.7297 0.2616</td><td>(m) 0.0120 0.0028 0.0059 0.0032 0.0127 0.0036 0.0065 0.1874 0.0013 0.0020 0.0242 0.0008</td><td>(m/k-m) 0.0210 0.0212 0.2350 0.2347 0.4042 0.2348 0.4044 0.3176 0.1107 0.1107 0.1104 0.6709 0.0602</td><td>Open           Open           Open</td></t<>	DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_3049 DMM_PIP_3055 DMM_PIP_3529 DMM_PIP_3537 DMM_PIP_3533 DMM_PIP_3533 DMM_PIP_3531	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_JUN_2978 DMM_VAL_8246 DMM_JUN_3284 DMM_JUN_3284	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_3284 DMM_JUN_3284 DMM_VAL_8246 DMM_JUN_2394	(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959 13.3610	(mm) 1,000.0000 1,400.0000 1,400.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000 700.0000 1,000.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) -117.2872 117.8119 1,009.2369 890.7926 1,009.2369 890.7926 487.7268 282.0519 282.0519 282.0519 282.0519 282.0519	(m/s) 0.1493 0.1500 0.6556 0.6556 0.7876 0.6556 0.7876 0.6210 0.3591 0.3591 0.7297 0.2616	(m) 0.0120 0.0028 0.0059 0.0032 0.0127 0.0036 0.0065 0.1874 0.0013 0.0020 0.0242 0.0008	(m/k-m) 0.0210 0.0212 0.2350 0.2347 0.4042 0.2348 0.4044 0.3176 0.1107 0.1107 0.1104 0.6709 0.0602	Open
DMM_PIP_3631         DMM_JUN_3348         DMM_VA_6248         19.9899         400.0000         0.3000         34.6065         0.2754         0.0041         0.2052         Ope           DMM_PIP_3627         DMM_JUN_3348         DMM_JUN_2814         113.1321         1,000.0000         0.3000         146.1144         0.1860         0.0036         0.0317         Ope           DMM_PIP_3633         DMM_VAL_6248         DMM_JUN_3300         23.1385         400.0000         0.3000         146.1144         0.1860         0.0036         0.0317         Ope           DMM_PIP_3633         DMM_JUN_2814         DIMJ_JUN_3288         23.1354         1,000.0000         0.3000         146.1144         0.1868         0.0105         0.0316         Ope           DMM_PIP_3641         DMM_JUN_3288         DMM_JUN_2816         149.5690         1,000.0000         0.3000         49.5721         0.3945         0.0022         0.0145         Ope           DMM_PIP_2627         DMM_JUN_2816         DMM_JUN_3292         2321.1077         1,000.0000         0.3000         19.5591         0.1556         0.0003         0.0695         Ope           DMM_PIP_2629         DMM_JUN_3292         DMAV67         4.3482         400.0000         0.3000         19.5591         0.1556	DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_3055 DMM_PIP_3055 DMM_PIP_3529 DMM_PIP_3537 DMM_PIP_3535 DMM_PIP_3533 DMM_PIP_3531 DMM_PIP_1137	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_VVN_2980 J54 DMM_VAL_8186 DMM_VAL_8186 DMM_VAL_8246 DMM_VAL_8246 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3280	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_3282 DMM_JUN_3284 DMM_VAL_8246 DMM_VAL_8246 DMM_JUN_2394 DMM_JUN_2392	(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959 13.3610 31.7794	(mm) 1,000.0000 1,400.0000 1,400.0000 1,400.0000 1,400.0000 1,000.0000 1,000.0000 1,000.0000 700.0000 1,000.0000 1,000.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) -117.2872 117.8119 1,009.2369 1,009.2369 890.7926 487.7268 282.0519 282.0519 282.0519 280.8348 205.4385 205.4385	(m/s) 0.1493 0.1500 0.6556 0.6556 0.7876 0.6556 0.7876 0.6210 0.3591 0.3591 0.7297 0.2616 0.1816	(m) 0.0120 0.0028 0.0059 0.0032 0.0127 0.0036 0.0065 0.1874 0.0013 0.0020 0.0242 0.0008	(m/k-m) 0.0210 0.0212 0.2350 0.2347 0.4042 0.2348 0.4044 0.3176 0.1107 0.1107 0.1104 0.6709 0.0602 0.0243	Open
DMM_PIP_3627         DMM_JUN_3348         DMM_JUN_2814         113.1321         1,000.0000         0.3000         146.1144         0.1860         0.0036         0.0317         Ope           DMM_PIP_3633         DMM_VAL_8248         DMM_JUN_3350         23.1385         400.0000         0.3000         34.6065         0.2754         0.0048         0.2054         Ope           DMM_PIP_2621         DMM_JUN_2814         DMM_JUN_3288         333.1551         1,000.0000         0.3000         145.9449         0.1858         0.0105         0.0317         Ope           DMM_PIP_2621         DMM_JUN_2816         DMM_JUN_3286         DMM_JUN_2816         149.5690         1,000.0000         0.3000         45.0749         0.1222         0.0022         0.0145         Ope           DMM_PIP_2623         DMM_JUN_3288         DMM_JUN_3292         321.1077         1,000.0000         0.3000         49.5721         0.3945         0.0066         0.0144         Ope           DMM_PIP_2623         DMM_JUN_3292         DMA/V67         4.3482         400.0000         0.3000         19.5591         0.1556         0.0033         0.0695         Ope           DMM_PIP_2629A         DMM_JUN_3292         DMM_JUN_3300         415.2813         1,000.0000         0.3000         19.5	DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3055 DMM_PIP_3529 DMM_PIP_3535 DMM_PIP_3535 DMM_PIP_3533 DMM_PIP_3531 DMM_PIP_1143	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_VAL_8186 DMM_VAL_8246 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_2390 DMM_JUN_2392	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8182 DMM_JUN_2978 DMM_JUN_2978 DMM_JUN_3282 DMM_JUN_3284 DMM_VAL_8246 DMM_JUN_2394 DMM_JUN_2390 DMM_JUN_2392 DMM_3406	(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959 13.3610 31.7794 6.5543	(mm) 1,000.0000 1,000.0000 1,400.0000 1,400.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,200.0000 1,200.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) -117.2872 117.2819 1,009.2369 1,009.2369 890.7926 487.7268 282.0519 282.0519 282.0519 282.0519 282.054385 205.4385 205.4316 205.3875	(m/s) 0.1493 0.1500 0.6556 0.7876 0.6556 0.7876 0.6210 0.3591 0.3591 0.7297 0.2616 0.1816	(m) 0.0120 0.0028 0.0059 0.0032 0.0127 0.0036 0.0065 0.1874 0.0013 0.0020 0.0242 0.0008 0.0008 0.0008	(m/k-m) 0.0210 0.0212 0.2350 0.2347 0.4042 0.2348 0.4044 0.3176 0.1107 0.1104 0.6709 0.0602 0.0243 0.0241	Open
DMM_PIP_3633         DMM_VAL_8248         DMM_JUN_3350         23.1385         400.0000         0.3000         34.6065         0.2754         0.0048         0.2054         Ope           DMM_PIP_2621         DMM_JUN_2814         DMM_JUN_3288         333.1554         1,000.0000         0.3000         145.9449         0.1858         0.0105         0.0316         Ope           DMM_PIP_3621         DMM_JUN_2816         149.5690         1,000.0000         0.3000         96.074         0.1222         0.0022         0.0145         Ope           DMM_PIP_2623         DMM_JUN_2816         DMM_JUN_3282         16.0531         400.0000         0.3000         96.6749         0.1218         0.0046         0.0144         Ope           DMM_PIP_2623         DMM_JUN_2816         DMM_JUN_3292         321.1077         1,000.0000         0.3000         19.5591         0.1556         0.0003         0.0695         Ope           DMM_PIP_2629A         DMM_VG7         DMM_JUN_3209         10.7084         400.0000         0.3000         19.5591         0.1556         0.0003         0.0079         Ope           P217         DMM_JUN_3292         DMM_VG3         421.9033         140.3000         0.1000         6.5951         0.4266         0.6350         1.5051	DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3555 DMM_PIP_3535 DMM_PIP_3535 DMM_PIP_3533 DMM_PIP_3533 DMM_PIP_3533 DMM_PIP_3533 DMM_PIP_3531 DMM_PIP_1137 DMM_PIP_1143 DMM_PIP_2617	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_JUN_2978 DMM_VAL_8246 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2392 DMM_3406	DMM_JUN_2976 DMM_VAL_8184 DMM_VAL_8184 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_2382 DMM_JUN_2384 DMM_VAL_8246 DMM_JUN_2394 DMM_JUN_2390 DMM_JUN_2392 DMM_3406 DMM_JUN_3348	(m) 572.1145 132.407 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959 13.8610 31.7794 6.5543 0.7164	(mm) 1,000.0000 1,400.0000 1,400.0000 1,400.0000 1,400.0000 1,400.0000 1,000.0000 1,000.0000 700.0000 1,000.0000 1,200.0000 1,200.0000 1,200.0000 1,200.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	(Us) -117.2872 117.8119 1,009.2369 890.7926 487.7268 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.0519 282.	(m/s) 0.1493 0.1500 0.6556 0.6556 0.7876 0.6556 0.7876 0.6210 0.3591 0.7297 0.2616 0.1816 0.2302	(m) 0.0120 0.0028 0.0059 0.0032 0.0127 0.0036 0.0065 0.1874 0.0013 0.0020 0.0242 0.0008 0.0008 0.0002 0.0002 0.0002	(m/k-m) 0.0210 0.2350 0.2357 0.2347 0.2348 0.4044 0.3176 0.1107 0.1104 0.6709 0.0602 0.0243 0.0241 0.0519	Open
DMM_PIP_2621         DMM_JUN_2814         DMM_JUN_3288         333.1554         1,000.0000         0.3000         145.9449         0.1858         0.0105         0.0316         Ope           DMM_PIP_3541         DMM_JUN_3288         DMM_JUN_2816         149.6901         0.00000         0.3000         46.074         0.1222         0.0022         0.0145         Ope           DMM_PIP_2627         DMM_JUN_3288         DMM_JUN_3286         16.0531         400.0000         0.3000         49.5721         0.3945         0.0065         0.4073         Ope           DMM_PIP_2629         DMM_JUN_2816         DMM_JUN_3292         321.1077         1,000.0000         0.3000         19.5591         0.1556         0.0003         0.0695         Ope           DMM_PIP_2629         DMM_JUN_3292         DMAV67         4.3482         400.0000         0.3000         19.5591         0.1556         0.0003         0.0695         Ope           DMM_PIP_2629         DMM_JUN_3292         DMAV67         4.3482         400.0000         0.3000         19.5591         0.1556         0.0003         0.0695         Ope           DMM_PIP_2629         DMM_JUN_3292         DMAV63         421.9033         140.3000         0.1000         6.9591         0.4266         0.6350	DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3555 DMM_PIP_3555 DMM_PIP_3537 DMM_PIP_3533 DMM_PIP_3531 DMM_PIP_3531 DMM_PIP_1143 DMM_PIP_2617 DMM_PIP_3631	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_JUN_2978 DMM_VAL_8186 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3284 DMM_JUN_3282 DMM_JUN_2390 DMM_JUN_2392 DMM_J406 DMM_JUN_3348	DMM_JUN_2976 DMM_VAL_8184 DMM_JUN_2980 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_3282 DMM_JUN_3284 DMM_VAL_8246 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2392 DMM_JUN_2348 DMM_JUN_3406	(m) 572.1145 132.4194 24.8944 13.6756 15.5040 15.5040 11.5117 18.0664 36.0959 13.3610 31.7794 6.5543 0.7164 19.9899	(mm) 1,000.0000 1,400.0000 1,400.0000 1,400.0000 1,400.0000 1,400.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,200.0000 1,200.0000 400.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) -117.2872 117.8119 1,009.2369 1,009.2369 890.7926 487.7268 282.0519 282.0519 280.8348 205.4385 205.4116 205.3875 180.7807 34.6065	(m/s) 0.1493 0.1500 0.6556 0.6556 0.6556 0.7876 0.6556 0.7876 0.6210 0.3591 0.3591 0.3591 0.3591 0.3591 0.3591 0.7297 0.2616 0.1816 0.1816 0.2302 0.22754	(m) 0.0120 0.0028 0.0059 0.0032 0.0127 0.0036 0.0065 0.1874 0.0013 0.0020 0.0242 0.0008 0.0002 0.0002 0.0002 0.0000 0.00041	(m/k-m) 0.0210 0.0212 0.2350 0.2347 0.4042 0.2348 0.4044 0.3176 0.1107 0.1104 0.6709 0.0602 0.0243 0.0241 0.0519 0.2052	Open           Open
DMM_PIP_3541         DMM_JUN_3288         DMM_JUN_2816         149.5690         1,000.0000         0.3000         96.074         0.1222         0.0022         0.0145         Ope           DMM_PIP_2627         DMM_JUN_3288         DMM_JUN_3286         16.0531         400.0000         0.3000         49.5721         0.3455         0.0065         0.4073         Ope           DMM_PIP_2623         DMM_JUN_3286         DMM_JUN_3292         321.1077         1,000.0000         0.3000         95.6749         0.1218         0.0046         0.0144         Ope           DMM_PIP_2629         DMM_JUN_3292         DMA/67         4.3482         400.0000         0.3000         19.5591         0.1556         0.0008         0.0695         Ope           DMM_PIP_2629         DMAV67         DMM_JUN_3290         10.7088         400.0000         0.3000         19.5591         0.1556         0.0008         0.0704         Ope           P217         DMM_JUN_3292         DMA/63         421.9331         140.3000         0.1000         6.5951         0.4266         0.6350         1.5051         Ope           P219         DMAV63         J30         11.4384         140.3000         0.1000         10.9057         0.3567         0.0102         0.7072	DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_3020 P813 DMM_PIP_3555 DMM_PIP_3535 DMM_PIP_3535 DMM_PIP_3533 DMM_PIP_3531 DMM_PIP_3531 DMM_PIP_11137 DMM_PIP_1617 DMM_PIP_3631 DMM_PIP_3627	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_JUN_2978 DMM_VAL_8246 DMM_JUN_2824 DMM_JUN_2824 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_2390 DMM_JUN_2392 DMM_3406 DMM_JUN_3348 DMM_JUN_3348	DMM_JUN_2976 DMM_VAL_8184 DMM_VAL_8184 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_2324 DMM_JUN_2324 DMM_VAL_8246 DMM_JUN_2394 DMM_JUN_2390 DMM_JUN_2392 DMM_JUN_2329 DMM_JUN_23406 DMM_JUN_3348 DMM_VAL_8248 DMM_JUN_2814	(m) 572.1145 132.4102 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959 13.3610 31.7794 6.5543 0.7164 19.9899 113.1321	(mm) 1,000.0000 1,400.0000 1,400.0000 1,400.0000 1,400.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,200.0000 1,000.0000 1,000.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) -117.2872 117.8119 1,009.2369 1,009.2369 890.7926 487.7268 282.0519 280.0519 280.0541 280.3488 205.4385 205.4116 205.3875 180.7807 34.6065 146.1144	(m/s) 0.1493 0.1500 0.6556 0.6556 0.6556 0.6556 0.7876 0.6556 0.7876 0.6210 0.3591 0.3591 0.3591 0.3591 0.22616 0.1816 0.2302 0.2754 0.2754	(m) 0.0120 0.0028 0.0059 0.0032 0.0127 0.0036 0.0065 0.1874 0.0013 0.0020 0.00242 0.0008 0.0008 0.0008 0.0008 0.0002 0.0000 0.00041 0.0036	(m/k-m) 0.0210 0.0212 0.2350 0.2347 0.4042 0.2348 0.4044 0.3176 0.1107 0.1107 0.1104 0.6709 0.0602 0.0243 0.0241 0.0519 0.2052 0.0317	Open
DMM_PIP_2623         DMM_JUN_2816         DMM_JUN_3292         321.1077         1,000.0000         0.3000         95.6749         0.1218         0.0046         0.0144         Ope           DMM_PIP_2629         DMM_JUN_3292         DMAV67         4.3482         400.0000         0.3000         19.5591         0.1556         0.0003         0.0695         Ope           DMM_PIP_2629A         DMAV67         DMM_JUN_3290         10.7088         400.0000         0.3000         19.5591         0.1556         0.0008         0.0794         Ope           DMM_PIP_3545         DMM_JUN_3292         DMM_JUN_3300         415.2813         1,000.0000         0.3000         6.92343         0.0882         0.0033         0.0079         Ope           P217         DMM_JUN_3292         DMAV63         421.9033         140.3000         0.1000         6.5951         0.4266         0.6350         1.5051         Ope           P219         DMAV63         J30         11.4384         140.3000         0.1000         10.9057         0.3567         0.8859         0.7072         Ope           P213         DMAV62         J28         14.4390         197.3000         0.1000         10.9057         0.3567         0.8859         0.7072         Ope </td <td>DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3055 DMM_PIP_3535 DMM_PIP_3535 DMM_PIP_3533 DMM_PIP_3531 DMM_PIP_1143 DMM_PIP_1143 DMM_PIP_3631 DMM_PIP_3637 DMM_PIP_3633</td> <td>DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_29800 J54 DMM_VAL_8186 DMM_JUN_2980 DMM_VAL_8246 DMM_JUN_2822 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2393 DMM_JUN_23948 DMM_JUN_2348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3281</td> <td>DMM_JUN_2976 DMM_VAL_8184 DMM_VAL_8182 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_2978 DMM_JUN_2382 DMM_JUN_2384 DMM_VAL_8246 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2392 DMM_JUN_2392 DMM_JUN_3348 DMM_JUN_3348 DMM_VAL_8248 DMM_JUN_3350</td> <td>(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959 13.3610 31.7794 6.5543 0.7164 19.9892 113.1321 23.1385</td> <td>(mm) 1,000.0000 1,400.0000 1,400.0000 1,400.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,200.0000 1,200.0000 1,200.0000 1,000.0000 400.0000</td> <td>(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 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TANK_71_PS DMM_JUN_29800 J54 DMM_VAL_8186 DMM_JUN_2980 DMM_VAL_8246 DMM_JUN_2822 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2393 DMM_JUN_23948 DMM_JUN_2348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3281	DMM_JUN_2976 DMM_VAL_8184 DMM_VAL_8182 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_2978 DMM_JUN_2382 DMM_JUN_2384 DMM_VAL_8246 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2392 DMM_JUN_2392 DMM_JUN_3348 DMM_JUN_3348 DMM_VAL_8248 DMM_JUN_3350	(m) 572.1145 132.4107 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959 13.3610 31.7794 6.5543 0.7164 19.9892 113.1321 23.1385	(mm) 1,000.0000 1,400.0000 1,400.0000 1,400.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,200.0000 1,200.0000 1,200.0000 1,000.0000 400.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 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0.0008 0.0008 0.0002 0.00041 0.0036 0.0048	(m/k-m) 0.0210 0.0212 0.2350 0.2347 0.4042 0.2348 0.4044 0.3176 0.1107 0.1104 0.6709 0.0602 0.0243 0.0241 0.0519 0.2052	Open
DMM_PIP_2629         DMM_JUN_3292         DMAV67         4.3482         400.0000         0.3000         19.5591         0.1556         0.0003         0.0695         Ope           DMM_PIP_2629A         DMAV67         DMM_JUN_3290         10.7088         400.0000         0.3000         19.5591         0.1556         0.0003         0.0695         Ope           DMM_PIP_2629A         DMM_JUN_3292         DMM_JUN_3300         415.2813         1,000.0000         0.3000         19.5591         0.1556         0.0038         0.0079         Ope           P217         DMM_JUN_3292         DMAV63         421.9033         140.3000         0.1000         6.5951         0.4266         0.6330         1.5051         Ope           P219         DMAV63         J30         11.4384         140.3000         0.1000         6.5951         0.4266         0.0172         1.5052         Ope           P213         DMMV62         J28         14.4390         197.3000         0.1000         10.9057         0.3567         0.8859         0.7072         Ope           DMM_PIP_3553         DMM_JUN_3300         DMM_JUN_2818         111.3169         1,000.0000         0.3000         35.2244         0.0448         0.0003         0.0023         Ope </td <td>DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3555 DMM_PIP_3537 DMM_PIP_3535 DMM_PIP_3533 DMM_PIP_3533 DMM_PIP_3531 DMM_PIP_1137 DMM_PIP_1143 DMM_PIP_1443 DMM_PIP_3631 DMM_PIP_3633 DMM_PIP_3627</td> <td>DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_29800 J54 DMM_VAL_8186 DMM_JUN_2980 DMM_VAL_8246 DMM_JUN_2822 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2393 DMM_JUN_23948 DMM_JUN_2348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3281</td> <td>DMM_JUN_2976 DMM_VAL_8184 DMM_VAL_8182 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_2978 DMM_JUN_2382 DMM_JUN_2384 DMM_VAL_8246 DMM_JUN_2390 DMM_JUN_2392 DMM_JUN_2392 DMM_JUN_2392 DMM_JUN_2384 DMM_JUN_3350</td> <td>(m) 572.1105 132.4094 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959 13.3610 31.7794 6.5543 0.7164 19.9899 113.1321 23.1385</td> <td>(mm) 1,000.0000 1,000.0000 1,400.0000 1,400.0000 1,400.0000 1,400.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 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34.6065</td> <td>(m/s) 0.1493 0.1500 0.6556 0.6556 0.6556 0.6556 0.7876 0.6210 0.3591 0.3591 0.3591 0.3591 0.7297 0.2616 0.1816 0.2302 0.2754 0.1860 0.2754 0.1858</td> <td>(m) 0.0120 0.0028 0.0059 0.0032 0.0127 0.0036 0.0065 0.1874 0.0013 0.0020 0.0242 0.0008 0.0008 0.0008 0.0002 0.0002 0.0000 0.0004 0.0036 0.0036 0.0036 0.0036 0.0036 0.0036 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 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0.2350 0.2347 0.4042 0.2347 0.4044 0.3176 0.1104 0.6709 0.0602 0.0243 0.0241 0.0519 0.2052 0.0317 0.2052 0.0317</td> <td>Open           Open           Open</td>	DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3555 DMM_PIP_3537 DMM_PIP_3535 DMM_PIP_3533 DMM_PIP_3533 DMM_PIP_3531 DMM_PIP_1137 DMM_PIP_1143 DMM_PIP_1443 DMM_PIP_3631 DMM_PIP_3633 DMM_PIP_3627	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_29800 J54 DMM_VAL_8186 DMM_JUN_2980 DMM_VAL_8246 DMM_JUN_2822 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2393 DMM_JUN_23948 DMM_JUN_2348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3281	DMM_JUN_2976 DMM_VAL_8184 DMM_VAL_8182 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_2978 DMM_JUN_2382 DMM_JUN_2384 DMM_VAL_8246 DMM_JUN_2390 DMM_JUN_2392 DMM_JUN_2392 DMM_JUN_2392 DMM_JUN_2384 DMM_JUN_3350	(m) 572.1105 132.4094 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959 13.3610 31.7794 6.5543 0.7164 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DMM_PIP_2629A         DMAV67         DMM_JUN_3290         10.7088         400.0000         0.3000         19.5591         0.1556         0.0008         0.0704         Ope           DMM_PIP_3545         DMM_JUN_3292         DMM_JUN_3300         415.2813         1,000.0000         0.3000         69.2343         0.0882         0.0033         0.0079         Ope           P217         DMM_JUN_3292         DMAV63         421.9033         140.3000         0.1000         6.5951         0.4266         0.6350         1.5051         Ope           P219         DMAV63         J30         11.4384         140.3000         0.1000         6.5951         0.4266         0.0172         1.5052         Ope           P213         DMM_JUN_3300         DMAV62         1.252.6060         197.3000         0.1000         10.9057         0.3567         0.8859         0.7072         Ope           P213         DMAV62         J28         14.4390         197.3000         0.1000         10.9057         0.3567         0.0102         0.7073         Ope           DMM_PIP_553         DMM_JUN_3300         DMM_JUN_2818         111.3169         1,000.0000         0.3000         35.2244         0.0448         0.0003         0.0023         Ope	DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_3055 DMM_PIP_3555 DMM_PIP_3555 DMM_PIP_3537 DMM_PIP_3533 DMM_PIP_3531 DMM_PIP_3531 DMM_PIP_3531 DMM_PIP_1143 DMM_PIP_2617 DMM_PIP_3631 DMM_PIP_3633 DMM_PIP_3633 DMM_PIP_3633 DMM_PIP_3631 DMM_PIP_3633	DMM_JUN_2738 DMM_JUN_2780 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_VAL_8186 DMM_VAL_8246 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3288	DMM_JUN_2976 DMM_VAL_8184 DMM_VAL_8182 DMM_VAL_8182 DMM_VAL_8182 DMM_JUN_2978 DMM_JUN_2978 DMM_JUN_2828 DMM_JUN_2384 DMM_JUN_2394 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2392 DMM_JUN_2392 DMM_JUN_2384 DMM_JUN_2814 DMM_JUN_2814 DMM_JUN_2816 DMM_JUN_2816 DMM_JUN_2816	(m) 572.1145 132.4102 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959 13.3610 31.7794 6.5543 0.7164 19.9899 113.1321 23.1385 333.1554 149.5690 16.0531	(mm) 1,000.0000 1,400.0000 1,400.0000 1,400.0000 1,400.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 400.0000 400.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	(L/s) -117.2872 117.8119 1,009.2369 1,009.2369 1,009.2369 1,009.2369 280.7926 487.7268 282.0519 280.8348 205.4385 205.4116 205.3875 180.7807 146.1144 34.6065 146.1144 34.6065 145.9449 96.0074 49.5721	(m/s) 0.1493 0.1500 0.6556 0.6556 0.6556 0.7876 0.6556 0.7876 0.6210 0.3591 0.3591 0.3591 0.2616 0.1816 0.22754 0.1860 0.2754 0.1858 0.1222 0.3945	(m) 0.0120 0.0028 0.0059 0.0032 0.0127 0.0036 0.0065 0.1874 0.0013 0.0020 0.00242 0.0008 0.0008 0.0008 0.0008 0.0008 0.0002 0.00041 0.0036 0.0041 0.0036 0.0048 0.0105 0.0045	(m/k-m) 0.0210 0.0212 0.2350 0.2347 0.4042 0.2348 0.4044 0.3176 0.1107 0.1107 0.1104 0.6709 0.0602 0.0243 0.0241 0.05152 0.0317 0.2054 0.0316 0.0145 0.0145	Open
DMM_PIP_3545         DMM_JUN_3292         DMM_JUN_3300         415 2813         1,000.0000         0.3000         69.2343         0.0882         0.0033         0.0079         Ope           P217         DMM_JUN_3292         DMAV63         421.9033         140.3000         0.1000         6.5951         0.4266         0.6350         1.5051         Ope           P219         DMAV63         J30         11.4384         140.3000         0.1000         6.5951         0.4266         0.0172         1.5051         Ope           P219         DMAV63         J30         11.4384         140.3000         0.1000         6.5951         0.4266         0.0172         1.5052         Ope           P211         DMM_JUN_3300         DMAV62         1,252.6060         197.3000         0.1000         10.9057         0.3567         0.8859         0.7072         Ope           P213         DMAV52         J28         14.4390         197.3000         0.1000         10.9057         0.3567         0.0102         0.7073         Ope           DMM_PIP_26531         DMM_JUN_3300         DMM_JUN_2818         111.3169         1,000.0000         0.3000         35.2244         0.0448         0.0023         0.0023         Ope <t< td=""><td>DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3529 DMM_PIP_3535 DMM_PIP_3535 DMM_PIP_3533 DMM_PIP_3533 DMM_PIP_3531 DMM_PIP_1143 DMM_PIP_1143 DMM_PIP_14143 DMM_PIP_2617 DMM_PIP_3631 DMM_PIP_3633 DMM_PIP_3633 DMM_PIP_3641 DMM_PIP_2621 DMM_PIP_2623</td><td>DMM_JUN_2738 DMM_JUN_2738 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_VAL_8186 DMM_VAL_8246 DMM_JUN_2978 DMM_VAL_8246 DMM_JUN_3282 DMM_JUN_2392 DMM_JUN_2392 DMM_JUN_2392 DMM_JUN_2392 DMM_JUN_2392 DMM_JUN_2384 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3281 DMM_JUN_3288 DMM_JUN_3288 DMM_JUN_3286</td><td>DMM_JUN_2976 DMM_VAL_8184 DMM_VAL_8182 DMM_VAL_8182 DMM_VAL_8182 DMM_JUN_2978 DMM_JUN_2978 DMM_JUN_2978 DMM_JUN_2822 DMM_JUN_2384 DMM_VAL_8246 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2392 DMM_JUN_3348 DMM_JUN_3350 DMM_JUN_3284 DMM_JUN_32816 DMM_JUN_3286 DMM_JUN_3292</td><td>(m) 572.1145 132.4107 132.4994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959 13.3610 31.7794 6.5543 0.7164 19.8989 113.1321 113.1321 113.1321 113.1325 133.31554 149.5690 16.0531 321.1077</td><td>(mm) 1,000.0000 1,400.0000 1,400.0000 1,400.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 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DMM_PIP_3633 DMM_PIP_3641 DMM_PIP_2621 DMM_PIP_2623	DMM_JUN_2738 DMM_JUN_2738 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_VAL_8186 DMM_VAL_8246 DMM_JUN_2978 DMM_VAL_8246 DMM_JUN_3282 DMM_JUN_2392 DMM_JUN_2392 DMM_JUN_2392 DMM_JUN_2392 DMM_JUN_2392 DMM_JUN_2384 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3281 DMM_JUN_3288 DMM_JUN_3288 DMM_JUN_3286	DMM_JUN_2976 DMM_VAL_8184 DMM_VAL_8182 DMM_VAL_8182 DMM_VAL_8182 DMM_JUN_2978 DMM_JUN_2978 DMM_JUN_2978 DMM_JUN_2822 DMM_JUN_2384 DMM_VAL_8246 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2392 DMM_JUN_3348 DMM_JUN_3350 DMM_JUN_3284 DMM_JUN_32816 DMM_JUN_3286 DMM_JUN_3292	(m) 572.1145 132.4107 132.4994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959 13.3610 31.7794 6.5543 0.7164 19.8989 113.1321 113.1321 113.1321 113.1325 133.31554 149.5690 16.0531 321.1077	(mm) 1,000.0000 1,400.0000 1,400.0000 1,400.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 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0.00041 0.00036 0.0048 0.0105 0.0022 0.0046	(m/k-m) 0.0210 0.0212 0.2350 0.2347 0.4042 0.3347 0.4044 0.3176 0.1104 0.6709 0.0602 0.0243 0.0241 0.0519 0.00519 0.0051 0.0254 0.0316 0.0145 0.4073 0.0144	Open Open Open Open Open Open Open Open
P217         DMM_JUN_3292         DMAV63         421.9033         140.3000         0.1000         6.5951         0.4266         0.6350         1.5051         Ope           P219         DMAV63         J30         11.4384         140.3000         0.1000         6.5951         0.4266         0.0172         1.5052         Ope           P211         DMMV62         J22         1.252.6060         197.3000         0.1000         10.9057         0.3567         0.8859         0.7072         Ope           P213         DMAV62         J28         14.4390         197.3000         0.1000         10.9057         0.3567         0.0859         0.7072         Ope           DMM_PIP_3553         DMM_JUN_3300         DMM_JUN_2818         111.3169         1,000.0000         0.3000         35.2244         0.0448         0.0003         0.0023         Ope           DMM_PIP_2631         DMM_JUN_3300         DMAV68         4.3771         400.0000         0.3000         22.8976         0.1822         0.0044         0.0946         Ope           DMM_PIP_2631A         DMAV68         DMM_JUN_3298         10.4896         400.0000         0.3000         24.6085         0.0441         0.0004         Ope           DMM_PIP_2625	DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3555 DMM_PIP_3535 DMM_PIP_3535 DMM_PIP_3533 DMM_PIP_3533 DMM_PIP_3531 DMM_PIP_3531 DMM_PIP_1137 DMM_PIP_1143 DMM_PIP_1617 DMM_PIP_3627 DMM_PIP_3621 DMM_PIP_3621 DMM_PIP_3621 DMM_PIP_3621 DMM_PIP_3623 DMM_PIP_2621 DMM_PIP_2623 DMM_PIP_2629	DMM_JUN_2738 DMM_JUN_2980 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_JUN_2980 DMM_VAL_8246 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3283 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3288 DMM_JUN_2814 DMM_JUN_2816 DMM_JUN_2816 DMM_JUN_2816 DMM_JUN_2816 DMM_JUN_2816 DMM_JUN_2816 DMM_JUN_2816 DMM_JUN_2816	DMM_JUN_2976 DMM_VAL_8184 DMM_VAL_8184 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_2978 DMM_JUN_2382 DMM_JUN_2384 DMM_VAL_8246 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2392 DMM_3406 DMM_JUN_3348 DMM_JUN_3350 DMM_JUN_3281 DMM_JUN_3281 DMM_JUN_3286 DMM_JUN_3286 DMM_JUN_3292 DMM_JUN_3292	(m) 572.1145 132.41994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959 13.3810 31.7794 6.5543 0.7164 19.9899 113.1321 23.1385 333.1554 149.5690 16.0531 321.1077 4.3482	(mm) 1,000.0000 1,000.0000 1,400.0000 1,400.0000 1,400.0000 1,400.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 400.0000 400.0000 400.0000	(mm) 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 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P219         DMAV63         J30         11.4384         140.3000         0.1000         6.5951         0.4266         0.0172         1.5052         Ope           P211         DMM_JUN_3300         DMAV62         1,252.6060         197.3000         0.1000         10.9057         0.3567         0.8859         0.7072         Ope           P213         DMAV62         J28         14.4390         197.3000         0.1000         10.9057         0.3567         0.0102         0.7073         Ope           DMM_PIP_3553         DMM_JUN_3300         DMM_JUN_2818         111.3169         1,000.0000         0.3000         35.2244         0.0448         0.0003         0.0023         Ope           DMM_PIP_26314         DMM_JUN_3300         DMAV68         4.3771         400.0000         0.3000         22.8976         0.1822         0.0004         0.0946         Ope           DMM_PIP_2631A         DMAV68         DMM_JUN_3298         10.4896         400.0000         0.3000         22.8976         0.1822         0.0010         0.0940         Ope           DMM_PIP_26325         DMM_JUN_2818         DMAV61         339.4440         1,000.0000         0.3000         34.6085         0.0441         0.0008         0.0022         Ope <td>DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_3005 DMM_PIP_3055 DMM_PIP_3537 DMM_PIP_3537 DMM_PIP_3533 DMM_PIP_3533 DMM_PIP_3531 DMM_PIP_3531 DMM_PIP_1143 DMM_PIP_1143 DMM_PIP_2617 DMM_PIP_3631 DMM_PIP_3633 DMM_PIP_3633 DMM_PIP_3541 DMM_PIP_2627 DMM_PIP_2629 DMM_PIP_2629 DMM_PIP_2629</td> <td>DMM_JUN_2738 DMM_JUN_2738 DMM_VAL_8182 TANK_71_PS DMM_JUN_29800 J54 DMM_VAL_8186 DMM_JUN_2980 DMM_JUN_2980 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2392 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3288 DMM_JUN_2814 DMM_JUN_3288 DMM_JUN_3288 DMM_JUN_32816 DMM_JUN_3292 DMAV67</td> <td>DMM_JUN_2976 DMM_VAL_8184 DMM_VAL_8184 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_2978 DMM_JUN_3282 DMM_JUN_3284 DMM_VAL_8246 DMM_JUN_2394 DMM_JUN_2390 DMM_JUN_2392 DMM_JUN_3348 DMM_VAL_8248 DMM_VAL_8248 DMM_JUN_3350 DMM_JUN_3281 DMM_JUN_3286 DMM_JUN_3286 DMM_JUN_3286 DMM_JUN_3292 DMM_JUN_3290</td> <td>(m) 572.1145 132.41994 13.6756 31.3356 15.5040 11.517 18.0664 36.0959 13.3610 31.7794 6.5543 0.7164 19.9899 113.1321 23.1385 333.1554 149.5690 16.0531 321.1077 4.3482 10.7088</td> <td>(mm) 1,000.0000 1,400.0000 1,400.0000 1,400.0000 1,400.0000 1,400.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 400.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 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P211         DMM_JUN_3300         DMAV62         1,252.6060         197.3000         0.1000         10.9057         0.3567         0.8859         0.7072         Ope           P213         DMAV62         J28         14.4390         197.3000         0.1000         10.9057         0.3567         0.0102         0.7073         Ope           DMM_PIP_3553         DMM_JUN_3300         DMM_JUN_2818         111.3169         1,000.0000         0.3000         35.2244         0.0448         0.0003         0.0223         Ope           DMM_PIP_2631         DMM_JUN_3300         DMAV68         4.3771         400.0000         0.3000         22.8976         0.1822         0.0004         0.0946         Ope           DMM_PIP_2631A         DMAV68         DMM_JUN_3298         10.4896         400.0000         0.3000         22.8976         0.1822         0.0010         0.0940         Ope           DMM_PIP_2625         DMM_JUN_2818         DMAV61         339.4440         1,000.0000         0.3000         34.6085         0.0441         0.0008         0.0022         Ope           DMM_PIP_2625A         DMAV61         DMM_YE12         13.4230         1,000.0000         0.3000         34.6085         0.0441         0.0000         0.0021         Op	DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3055 DMM_PIP_3529 DMM_PIP_3535 DMM_PIP_3535 DMM_PIP_3531 DMM_PIP_3531 DMM_PIP_11143 DMM_PIP_1143 DMM_PIP_2617 DMM_PIP_3631 DMM_PIP_3631 DMM_PIP_3633 DMM_PIP_3627 DMM_PIP_3541 DMM_PIP_2629 DMM_PIP_2629 DMM_PIP_2629 DMM_PIP_2629 DMM_PIP_2629 DMM_PIP_2629 DMM_PIP_3545	DMM_JUN_2738 DMM_JUN_2738 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_VAL_816 DMM_VAL_8246 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3288 DMM_JUN_3288 DMM_JUN_3288 DMM_JUN_3288 DMM_JUN_3286 DMM_JUN_3286 DMM_JUN_3286 DMM_JUN_3286 DMM_JUN_3286	DMM_JUN_2976 DMM_VAL_8184 DMM_VAL_8182 DMM_VAL_8182 DMM_VAL_8182 DMM_JUN_2978 DMM_JUN_2978 DMM_JUN_2978 DMM_JUN_2384 DMM_VAL_8246 DMM_VAL_8246 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2392 DMM_JUN_2328 DMM_JUN_2814 DMM_JUN_2814 DMM_JUN_2816 DMM_JUN_3286 DMM_JUN_3292 DMM_JUN_3290 DMM_JUN_3300	(m) 572.1145 132.4102 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959 13.3610 31.7794 6.5543 0.7164 19.9899 113.1321 23.1385 333.15550 149.5590 16.0531 321.1077 4.3482 10.7088 415.2813	(mm) 1,000.0000 1,400.0000 1,400.0000 1,400.0000 1,400.0000 1,400.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 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P213         DMAV62         J28         14.4390         197.3000         0.1000         10.9057         0.3567         0.0102         0.7073         Ope           DMM_PIP_553         DMM_JUN_3300         DMM_JUN_2818         111.3169         1,000.0000         0.3000         35.2244         0.0448         0.0003         0.0023         Ope           DMM_PIP_2631         DMM_JUN_3300         DMAV68         4.371         400.0000         0.3000         22.8976         0.1822         0.0040         0.0946         Ope           DMM_PIP_2631A         DMAV68         DMM_JUN_3298         10.4896         400.0000         0.3000         22.8976         0.1822         0.0010         0.0023         Ope           DMM_PIP_2625A         DMM_JUN_2818         DMAV61         339.4440         1,000.0000         0.3000         34.6085         0.0441         0.0028         Ope           DMM_PIP_2625A         DMAV61         DMM_JUN_2812         13.4230         1,000.0000         0.3000         34.6085         0.0441         0.0000         0.0021         Ope	DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3529 DMM_PIP_3529 DMM_PIP_3535 DMM_PIP_3535 DMM_PIP_3533 DMM_PIP_3531 DMM_PIP_1143 DMM_PIP_1143 DMM_PIP_14143 DMM_PIP_2617 DMM_PIP_3631 DMM_PIP_3633 DMM_PIP_3621 DMM_PIP_26221 DMM_PIP_2623 DMM_PIP_2623 DMM_PIP_2623 DMM_PIP_2629 DMM_PIP_2629 DMM_PIP_3545 P217	DMM_JUN_2738 DMM_JUN_2738 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_VAL_8186 DMM_VAL_8246 DMM_JUN_2978 DMM_VAL_8246 DMM_JUN_3282 DMM_JUN_2392 DMM_JUN_2392 DMM_JUN_2392 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3281 DMM_JUN_3281 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3282	DMM_JUN_2976 DMM_VAL_8184 DMM_VAL_8182 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_2978 DMM_JUN_2382 DMM_JUN_2384 DMM_VAL_8246 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2392 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3350 DMM_JUN_3286 DMM_JUN_3286 DMM_JUN_3286 DMM_JUN_3286 DMM_JUN_3292 DMM_JUN_3292 DMM_JUN_3292	(m) 572.1145 132.4107 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959 13.3610 31.7794 6.5543 0.7164 19.9899 113.1321 23.1385 333.1554 149.5690 123.1077 4.3482 10.7088 415.2813 421.9033	(mm) 1,000.0000 1,400.0000 1,400.0000 1,200.0000 1,200.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 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0.6210 0.3591 0.7297 0.2616 0.3591 0.7297 0.2616 0.1816 0.2302 0.2754 0.1816 0.2754 0.1858 0.1222 0.3945 0.1218 0.1556 0.1556 0.0882 0.1286	(m) 0.0120 0.0028 0.0059 0.0032 0.0127 0.0036 0.0065 0.1874 0.0013 0.0020 0.0242 0.0008 0.0008 0.0002 0.00041 0.00041 0.0003 0.0048 0.0105 0.0048 0.0005 0.0048 0.0005 0.0048 0.0005 0.0048 0.0005 0.0048 0.0005 0.0048 0.0005 0.0048 0.0005 0.0048 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 0.0005 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0.6709 0.0602 0.0243 0.0241 0.0519 0.0252 0.0316 0.0316 0.0145 0.4073 0.0144 0.0695 0.0704 0.0079 1.5051	Open Open Open Open Open Open Open Open
DMM_PIP_3553         DMM_JUN_3300         DMM_JUN_2818         111.3169         1,000.0000         0.3000         35.2244         0.0448         0.0003         0.0023         Ope           DMM_PIP_2631         DMM_JUN_3300         DMAV68         4.371         400.0000         0.3000         22.8976         0.1822         0.0044         0.0946         Ope           DMM_PIP_2631A         DMAV68         DMM_JUN_3298         10.4896         400.0000         0.3000         22.8976         0.1822         0.0010         0.0946         Ope           DMM_PIP_26325         DMM_V0N_2818         DMM <s61< td="">         339.4440         1,000.0000         0.3000         34.6085         0.0441         0.0008         0.0022         Ope           DMM_PIP_2625A         DMAV61         DMM_JUN_2812         13.4230         1,000.0000         0.3000         34.6085         0.0441         0.0008         0.0021         Ope</s61<>	DMM_PIP_2421 DMM_PIP_3043 TANK71OUTLET DMM_PIP_3049 DMM_PIP_2201 P813 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DMM_JUN_3286 DMM_JUN_3292 DMM_JUN_3290 DMM_JUN_3290 DMM_JUN_3300 DMM_JUN_3300 DMM_V63 J30	(m) 572.1145 132.41994 13.6756 31.3356 15.5040 16.1688 590.1604 1.5.517 18.0664 36.0959 13.3810 31.7794 6.5543 0.7164 19.8899 113.1321 23.1385 333.1554 149.5690 16.0531 321.1077 4.3482 10.7088 415.2813 421.9033 11.4384	(mm) 1,000.0000 1,000.0000 1,400.0000 1,400.0000 1,400.0000 1,400.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 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DMM_PIP_2631         DMM_JUN_3300         DMAV68         4.3771         400.0000         0.3000         22.8976         0.1822         0.0004         0.0946         Ope           DMM_PIP_2631A         DMAV68         DMM_JUN_3298         10.4896         400.0000         0.3000         22.8976         0.1822         0.0010         0.0946         Ope           DMM_PIP_2635         DMM_JUN_2818         DMAV61         339.4440         1,000.0000         0.3000         34.6085         0.0441         0.0008         0.0022         Ope           DMM_PIP_2625A         DMAV61         DMM_JUN_2812         13.4230         1,000.0000         0.3000         34.6085         0.0441         0.0000         0.0021         Ope	DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_305 DMM_PIP_3055 DMM_PIP_3537 DMM_PIP_3537 DMM_PIP_3533 DMM_PIP_3533 DMM_PIP_3533 DMM_PIP_3531 DMM_PIP_3633 DMM_PIP_2617 DMM_PIP_2621 DMM_PIP_3633 DMM_PIP_3623 DMM_PIP_2621 DMM_PIP_2623 DMM_PIP_2629 DMM_PIP_2629 DMM_PIP_2629 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DMM_PIP_2631A         DMAV68         DMM_JUN_3298         10.4896         400.0000         0.3000         22.8976         0.1822         0.0010         0.0940         Ope           DMM_PIP_2625         DMM_JUN_2818         DMAV61         339.4440         1,000.0000         0.3000         34.6085         0.0441         0.0008         0.0022         Ope           DMM_PIP_2625A         DMAV61         DMM_JUN_2812         13.4230         1,000.0000         0.3000         34.6085         0.0441         0.0000         0.0021         Ope	DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3529 DMM_PIP_3529 DMM_PIP_3535 DMM_PIP_3535 DMM_PIP_3531 DMM_PIP_3531 DMM_PIP_1433 DMM_PIP_14331 DMM_PIP_2617 DMM_PIP_2621 DMM_PIP_3633 DMM_PIP_3633 DMM_PIP_26221 DMM_PIP_2623 DMM_PIP_2623 DMM_PIP_2629 DMM_PIP_2629 DMM_PIP_2629 DMM_PIP_2629 DMM_PIP_2629 DMM_PIP_3545 P217 P219 P211 P213	DMM_JUN_2738 DMM_JUN_2738 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_JUN_2980 J54 DMM_VAL_8166 DMM_JUN_2978 DMM_VAL_8246 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3486 DMM_JUN_3288 DMM_JUN_3288 DMM_JUN_3288 DMM_JUN_3288 DMM_JUN_3288 DMM_JUN_3288 DMM_JUN_3286 DMM_JUN_3292 DMM_JUN_3292 DMM_JUN_3292 DMM_JUN_3292 DMM_JUN_3292	DMM_JUN_2976 DMM_VAL_8184 DMM_VAL_8182 DMM_VAL_8182 DMM_VAL_8182 DMM_JUN_2978 DMM_JUN_2978 DMM_JUN_3282 DMM_JUN_3284 DMM_VAL_8246 DMM_VAL_8246 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2392 DMM_JUN_2328 DMM_JUN_2814 DMM_JUN_3350 DMM_JUN_3286 DMM_JUN_3286 DMM_JUN_3286 DMM_JUN_3292 DMM_JUN_3300 DMM_JUN_3300 DMM_JUN_3300 DMAV63 J30 DMAV62 J28	(m) 572.1145 132.4102 24.8994 13.6756 31.3356 15.5040 16.1688 590.1604 11.5117 18.0664 36.0959 13.3610 31.7794 6.5543 0.7164 19.9899 113.1321 23.1385 333.1554 149.5590 16.0531 321.1077 4.3482 10.7088 415.2813 421.9033 11.4384 1.252.8006 12.52.8006 14.4390	(mm) 1,000.0000 1,400.0000 1,400.0000 1,400.0000 1,400.0000 1,400.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 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890.7926 487.7268 282.0519 280.0519 280.0519 280.0348 205.4385 205.4116 205.3875 180.7807 34.6065 146.1144 34.6065 145.9449 96.0074 49.5721 95.6749 19.5591 69.2343 6.5951 10.9057 10.9057	(m/s) 0.1493 0.1500 0.6556 0.6556 0.6556 0.7876 0.6556 0.7876 0.6210 0.3591 0.3591 0.3591 0.3591 0.2616 0.1816 0.2302 0.2754 0.1860 0.2754 0.1860 0.2754 0.1860 0.2754 0.1222 0.3945 0.1222 0.3945 0.1228 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1556 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 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0.0004 0.0004 0.0004 0.0004	(m/k-m) 0.0210 0.0212 0.2350 0.2347 0.4042 0.2348 0.4044 0.3176 0.1107 0.1104 0.6709 0.0602 0.0243 0.0241 0.0251 0.2052 0.0317 0.2052 0.0317 0.2054 0.03145 0.4073 0.1144 0.6079 1.5051 1.5052 0.7072 0.7073	Open
DMM_PIP_2625A         DMAV61         DMM_JUN_2812         13.4230         1,000.0000         0.3000         34.6085         0.0441         0.0000         0.0021         Ope	DMM_PIP_2421 DMM_PIP_3043 TANK710UTLET DMM_PIP_3049 DMM_PIP_2201 P813 DMM_PIP_3529 DMM_PIP_3529 DMM_PIP_3535 DMM_PIP_3533 DMM_PIP_3533 DMM_PIP_3533 DMM_PIP_3531 DMM_PIP_1143 DMM_PIP_1143 DMM_PIP_2617 DMM_PIP_2617 DMM_PIP_3633 DMM_PIP_3633 DMM_PIP_26221 DMM_PIP_2623 DMM_PIP_2623 DMM_PIP_2623 DMM_PIP_2629 DMM_PIP_2629 DMM_PIP_2629 DMM_PIP_2629 DMM_PIP_3545 P217 P219 P211 P213 DMM_PIP_3553	DMM_JUN_2738 DMM_JUN_2738 DMM_VAL_8182 TANK_71_PS DMM_JUN_2980 J54 DMM_VAL_8186 DMM_VAL_816 DMM_VAL_8246 DMM_JUN_2978 DMM_VAL_8246 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_2392 DMM_JUN_2392 DMM_JUN_2392 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3348 DMM_JUN_3281 DMM_JUN_3281 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3282 DMM_JUN_3292 DMAV67 DMM_JUN_3292 DMAV67 DMM_JUN_3292 DMAV67 DMM_JUN_3292 DMAV63 DMM_JUN_3292 DMAV63 DMM_JUN_3292 DMAV63 DMM_JUN_3300	DMM_JUN_2976 DMM_VAL_8184 DMM_VAL_8184 DMM_VAL_8182 DMM_VAL_8186 TANK_71_PS DMM_JUN_2978 DMM_JUN_2828 DMM_JUN_2384 DMM_VAL_8246 DMM_JUN_2390 DMM_JUN_2390 DMM_JUN_2392 DMM_JUN_3348 DMM_JUN_3350 DMM_JUN_3350 DMM_JUN_3286 DMM_JUN_32816 DMM_JUN_3280 DMM_JUN_3292 DMM_JUN_3292 DMM_JUN_3280 DMM_JUN_3292 DMM_JUN_3290 DMM_JUN_3290 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 DMM_JUN_3200 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339.4440 13.4230	(mm) 1,000.0000 1,400.0000 1,400.0000 1,400.0000 1,400.0000 1,200.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 400.0000 1,000.0000 400.0000 1,000.0000 140.3000 140.3000 140.3000 140.3000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 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0.6210 0.3591 0.7297 0.2616 0.3591 0.7297 0.2616 0.3591 0.7297 0.2616 0.1816 0.2302 0.2754 0.1860 0.2754 0.1858 0.1222 0.3945 0.1218 0.1556 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4266 0.4480 0.4480 0.4480 0.4480 0.4480 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0.0519 0.2052 0.0317 0.2054 0.0316 0.1145 0.4074 0.0316 0.0145 0.4074 0.0695 0.0704 0.0695 0.0707 1.5051 1.5052 0.7072 0.0023 0.0946 0.0922 0.0021 0.0022 0.0021 0.0023 0.0946 0.0022 0.0021 0.0022 0.0021 0.0023 0.0023 0.0946 0.0022 0.0021 0.0022 0.0021 0.0023 0.0023 0.0946 0.0022 0.0021 0.0021 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0023 0.0024 0.0036 0.0046 0.0046 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 0.0055 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ID	From Node	To Node	Length (m)	Diameter (mm)	Roughness (mm)	Flow (L/s)	Velocity (m/s)	Headloss (m)	HL/1000 (m/k-m)	Status
DMM PIP 2635	DMM_JUN_2812	DMM_JUN_3296	13.7738	400.0000	0.3000	17.8813	0.1423	0.0008	0.0594	Open
DMM_PIP_3647	DMM_JUN_3360	DMM_JUN_3354	602.0642	400.0000	0.3000	21.8766	0.1741	0.0521	0.0866	Open
DMM PIP 3645	DMM_JUN_3360	DMM JUN 3358	8.7225	400.0000	0.3000	18.5523	0.1476	0.0006	0.0640	Open
DMM PIP 3643A	DMAV86	DMM JUN 3360	3.6893	400.0000	0.3000	40.4320	0.3217	0.0010	0.2761	Open
DMM_PIP_3643	DMM_JUN_3356	DMAV86	2.2199	400.0000	0.3000	40.4320	0.3217	0.0006	0.2766	Open
P265	DMM JUN 2806	DMAV78	52.3986	140.3000	0.1000	8.8974	0.5755	0.1379	2.6321	Open
P267	DMAV78	DMM_2856	49.1738	140.3000	0.1000	8.8974	0.5755	0.1294	2.6322	Open
DMM_PIP_2601	DMM_JUN_3380	DMM_JUN_3382	13.9159	400.0000	0.3000	55.3628	0.4406	0.0070	0.5037	Open
DMM PIP 2611	DMM JUN 2294	DMM JUN 3302	20.9171	400.0000	0.3000	17.0742	0.1359	0.0011	0.0545	Open
DMM_PIP_2609	DMM JUN 2810	DMM JUN 3352	10.6103	400.0000	0.3000	73.9312	0.5883	0.0093	0.8793	Open
DMM_PIP_3305	DMM_JUN_3138	DMM_846	1,898.6678	1,000.0000	0.3000	135.6391	0.1727	0.0524	0.0276	Open
DMM_PIP_2785	DMM_JUN_3138	DMAV182	51.7184	400.0000	0.3000	20.4764	0.1629	0.0040	0.0765	Open
DMM_PIP_2441	DMM_JUN_2744	DMM_JUN_3138	1,181.4428	1,000.0000	0.3000	156.1678	0.1988	0.0425	0.0359	Open
P523	DMAV182	DMM JUN 3384	55.2520	400.0000	0.3000	20.4764	0.1629	0.0042	0.0766	Open
DMM_PIP_3309	DMM_JUN_3142	DMM JUN 2746	749,4691	1.000.0000	0.3000	-265.6745	0.3383	0.0739	0.0986	Open
DMM_PIP_2443	DMM_JUN_3142	DMM_JUN_3386	32.7767	400.0000	0.3000	109.0916	0.8681	0.0614	1.8723	Open
DMM_PIP_2437	DMM JUN 2744	DMM_JUN_3142	15.1349	1.000.0000	0.3000	-156.3841	0.1991	0.0005	0.0360	Open
DMM_PIP_2439	DMM JUN 2746	DMM JUN 3148	1,902.8049	1,000.0000	0.3000	-265.9722	0.3386	0.1880	0.0988	Open
DMM_PIP_3317	DMM JUN 3148	DMM_JUN_3146	65.6665	400.0000	0.3000	84.3989	0.6716	0.0746	1.1366	Open
DMM_PIP_3315	DMM_JUN_3148	DMM JUN 2762	1,588.9784	1.000.0000	0.3000	-351,2581	0.4472	0.2677	0.1684	Open
DMM_PIP_2501	DMM_JUN_2762	DMM_JUN_3388	122.5552	400.0000	0.3000	37.8885	0.3015	0.0299	0.2439	Open
DMM_PIP_2497	DMM_JUN_2762	DMM_JUN_2764	656.1777	1,000.0000	0.3000	-408.4895	0.5201	0.1479	0.2254	Open
P359	DMM JUN 2762	DMAV113	22.7184	197.3000	0.1000	19.2035	0.6281	0.0462	2.0343	Open
P361	DMAV113	DMM 2002	63.9446	197.3000	0.1000	19.2035	0.6281	0.1301	2.0343	Open
DMM PIP 2511	DMM JUN 2764	DMM JUN 3150	25.7386	400.0000	0.3000	108.2076	0.8611	0.0474	1.8429	Open
DMM_PIP_2499	DMM_JUN_2764	DMM JUN 2766	139.0197	1,000.0000	0.3000	-516.7312	0.6579	0.0494	0.3553	Open
DMM PIP 2505	DMM_JUN_2766	DMM_JUN_2768	911.8123	1,000.0000	0.3000	-517.2105	0.6585	0.3245	0.3559	Open
DMM PIP 3323	DMM JUN 2768	DMM JUN 3152	14.3290	400.0000	0.3000	102.8697	0.8186	0.0239	1.6700	Open
DMM_PIP_2507	DMM JUN 2768	DMM JUN 2982	1,369.2132	1,000.0000	0.3000	-620.1311	0.7896	0.6936	0.5066	Open
DMM PIP 3071	DMM_VAL_8194	DMM JUN 2982	7.3654	1,000.0000	0.3000	620.1845	0.7896	0.0037	0.5071	Open
DMM_PIP_3061	DMM_JUN_2986	DMM VAL 8194	15.5373	1.000.0000	0.3000	620,1845	0.7896	0.0079	0.5065	Open
CT_OUTLET	DMM_VAL_8192	DMM_JUN_2986	9,2608	1,600.0000	0.3000	1,809.1558	0.8998	0.0034	0.3706	Open
DMM_PIP_3067	CENTRAL_TANK_PS	DMM_VAL_8192	11.2199	1,600.0000	0.3000	1.809.1558	0.8998	0.0042	0.3702	Open
P821	J58	CENTRAL TANK PS	4,7147	1,600.0000	0.3000	1.809.1558	0.8998	0.0012	0.3707	Open
P-33	DMM JUN 2946	FCV_CENTRAL_TANK	47.3153	1,600.0000	0.3000	1,999,9859	0.9947	0.0213	0.4506	Open
1-55	2011_2010_2010	····	41.0100	1,000.0000	0.0000	1,000.0000	0.0011	0.0210	0.1000	opon
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ID	From Node	To Node	Length	Diameter	Roughness	Flow	Velocity	Headloss	HL/1000	Status
<b>D</b> 04	FCV CENTRAL TANK	J56	(m) 12.3051	(mm) 1,600.0000	(mm) 0.3000	(L/s) 1,999.9859	(m/s) 0.9947	(m) 0.0055	(m/k-m) 0.4507	0.000
P-34			296.6949		0.3000		0.9947		0.4507	Open
DMM_PIP_2977	DMM_JUN_2944	DMM_JUN_2948		1,600.0000	0.3000	1,999.9857 1,999.9857	0.9947	0.1337	0.4507	Open
DMM_PIP_2975	DMM_JUN_2942 DMM_JUN_2942	DMM_JUN_2944 DMM_JUN_2940	2,163.0970 983.4080	1,600.0000	0.3000	-1,999.9857	0.9947	0.9749	0.4507	Open
DMM_PIP_2973	DMM_JUN_2938	DMM_JUN_2940	419.0785	1,600.0000	0.3000	1,999.9857	0.9947	0.4432	0.4507	Open
DMM_PIP_2971							0.9947		0.4507	Open
DMM_PIP_2969	DMM_JUN_2936	DMM_JUN_2938	760.6230	1,600.0000	0.3000	1,999.9857		0.3428		Open
DMM_PIP_2967	DMM_JUN_2934	DMM_JUN_2936	962.3452	1,600.0000	0.3000	1,999.9857	0.9947	0.4337	0.4507	Open
DMM_PIP_2965	DMM_JUN_2932	DMM_JUN_2934	1,726.5588	1,600.0000	0.3000	1,999.9857	0.9947	0.7781		Open
DMM_PIP_2963	DMM_JUN_2930	DMM_JUN_2932	3,079.9867	1,600.0000	0.3000	1,999.9857	0.9947	1.3881	0.4507	Open
DMM_PIP_2961	DMM_JUN_3280	DMM_JUN_2930	328.4499	1,600.0000	0.3000	1,999.9857	0.9947	0.1480	0.4507	Open
DMM_PIP_3527	DMM_JUN_3280	DMM_JUN_2926	95.3555	1,600.0000	0.3000	-4,199.9700	2.0889	0.1849	1.9390	Open
DMM_PIP_1271	DMM_JUN_2428	DMM_JUN_3280	34.8838	1,400.0000	0.3000	-2,199.9845	1.4291	0.0376	1.0775	Open
DMM PIP 1193	DMM VAL 8024	DMM JUN 2428	13.6552	1,400.0000	0.3000	-2,199.9845	1.4291	0.0147	1.0776	Open

ID	From Node	To Node	(m)	(mm)	(mm)	(L/s)	(m/s)	(m)	(m/k-m)	Status
P-34	FCV_CENTRAL_TANK	J56	12.3051	1,600.0000	0.3000	1,999.9859	0.9947	0.0055	0.4507	Open
DMM_PIP_2977	DMM_JUN_2944	DMM_JUN_2948	296.6949	1,600.0000	0.3000	1,999.9857	0.9947	0.1337	0.4507	Open
DMM_PIP_2975	DMM_JUN_2942	DMM_JUN_2944	2,163.0970	1,600.0000	0.3000	1,999.9857	0.9947	0.9749	0.4507	Open
DMM_PIP_2973	DMM_JUN_2942	DMM_JUN_2940	983.4080	1,600.0000	0.3000	-1,999.9857	0.9947	0.4432	0.4507	Open
DMM_PIP_2971	DMM_JUN_2938	DMM_JUN_2940	419.0785	1,600.0000	0.3000	1,999.9857	0.9947	0.1889	0.4507	Open
DMM_PIP_2969	DMM_JUN_2936	DMM_JUN_2938	760.6230	1,600.0000	0.3000	1,999.9857	0.9947	0.3428	0.4507	Open
DMM_PIP_2967	DMM_JUN_2934	DMM_JUN_2936	962.3452	1,600.0000	0.3000	1,999.9857	0.9947	0.4337	0.4507	Open
DMM_PIP_2965	DMM_JUN_2932	DMM_JUN_2934	1,726.5588	1,600.0000	0.3000	1,999.9857	0.9947	0.7781	0.4507	Open
DMM_PIP_2963	DMM_JUN_2930	DMM_JUN_2932	3,079.9867	1,600.0000	0.3000	1,999.9857	0.9947	1.3881	0.4507	Open
DMM_PIP_2961	DMM_JUN_3280	DMM_JUN_2930	328.4499	1,600.0000	0.3000	1,999.9857	0.9947	0.1480	0.4507	Open
DMM_PIP_3527	DMM_JUN_3280	DMM_JUN_2926	95.3555	1,600.0000	0.3000	-4,199.9700	2.0889	0.1849	1.9390	Open
DMM_PIP_1271	DMM_JUN_2428	DMM_JUN_3280	34.8838	1,400.0000	0.3000	-2,199.9845	1.4291	0.0376	1.0775	Open
DMM_PIP_1193	DMM_VAL_8024	DMM_JUN_2428	13.6552	1,400.0000	0.3000	-2,199.9845	1.4291	0.0147	1.0776	Open
DMM_5089	DMM_19836	DMM_VAL_8024	13.3400	1,400.0000	0.3000	-2,199.9845	1.4291	0.0144	1.0773	Open
P-35	DMM_19836	FCV_TANK55	6.9463	1,600.0000	0.3000	2,199.9845	1.0942	0.0038	0.5437	Open
P-36	FCV_TANK55	J62	7.8302	1,600.0000	0.3000	2,199.9845	1.0942	0.0043	0.5435	Open
DMM_PIP_3517	DMM_JUN_3276	MEW_TANK_55_PS	71.6074	1,400.0000	0.3000	1,060.8510	0.6891	0.0185	0.2587	Open
DMM_PIP_2659	MEW_TANK_55_PS	DMM_JUN_3278	21.5346	1,400.0000	0.3000	1,060.8510	0.6891	0.0056	0.2587	Open
DMM_PIP_3521	DMM_JUN_3278	DMM_1160	63.0371	1,400.0000	0.3000	1,028.4777	0.6681	0.0154	0.2436	Open
P23	DMM_JUN_3174	DMM_1160	4.4425	1,000.0000	0.3000	0.0000	0.0000	0.0000	0.0000	Closed
DMM_PIP_2571(2)	DMM_JUN_2794	21665-B	1,558.0150	1,000.0000	0.3000	-298.2664	0.3798	0.1917	0.1230	Open
DMM_VAL_8038_U	DMM_1160	DMM_VAL_8038	3.0752	1,000.0000	0.3000	298.2664	0.3798	0.0004	0.1240	Open
DMM_VAL_8038_D	DMM_VAL_8038	21665-B	3.4913	1,000.0000	0.3000	298.2664	0.3798	0.0004	0.1226	Open
DMM_PIP_2249	DMM_JUN_2678	DMM_JUN_2794	674.3797	1,000.0000	0.3000	-289.8043	0.3690	0.0785	0.1164	Open
DMM_PIP_2573	DMM_JUN_2794	DMM_JUN_2796	746.3929	400.0000	0.3000	2.8579	0.0227	0.0016	0.0022	Open
DMM_PIP_2577(1)	DMM_JUN_2796	PRV-8	178.8718	400.0000	0.3000	2.8348	0.0226	0.0004	0.0022	Open
DMM_PIP_2577(2)	PRV-8	DMM_JUN_3176	40.6283	400.0000	0.3000	2.8348	0.0226	0.0001	0.0022	Open
DMM_PIP_2255(1)	DMM_JUN_2678	PRV-7	56.1034	400.0000	0.3000	43.1222	0.3432	0.0175	0.3121	Open
DMM_PIP_2255(2)	PRV-7	DMM_JUN_3418	18.6748	400.0000	0.3000	43.1222	0.3432	0.0058	0.3121	Open
DMM_PIP_2251	DMM_JUN_2680	DMM_JUN_2678	1,207.9848	1,000.0000	0.3000	-246.6727	0.3141	0.1033	0.0856	Open
DMM_PIP_2567	DMM_JUN_2790	DMM_JUN_2680	257.8840	1,000.0000	0.3000	-246.6476	0.3140	0.0221	0.0855	Open
DMM_PIP_2253	DMM_JUN_2680	DMM_6709	43.9786	400.0000	0.3000	0.0000	0.0000	0.0000	0.0000	Closed
DMM_PIP_2569	DMM_JUN_2790	DMM_JUN_3182	28.9899	400.0000	0.3000	0.0000	0.0000	0.0000	0.0000	Closed
DMM_PIP_3249(1)	DMM_JUN_2790	J-23	1,069.3960	1,000.0000	0.3000	245.9710	0.3132	0.0910	0.0851	Open
DMM_PIP_2597	DMM_JUN_2788	DMM_JUN_3186	1,416.0236	1,000.0000	0.3000	231.0263	0.2942	0.1069	0.0755	Open





ID	From Node	To Node	Length (m)	Diameter (mm)	Roughness (mm)	Flow (L/s)	Velocity (m/s)	Headloss (m)	HL/1000 (m/k-m)	Status
DMM_PIP_2565	DMM_JUN_2788	DMAV111	35.9430	400.0000	0.3000	14.7992	0.1178	0.0015	0.0419	Open
P-43	J-23	PRV-5	11.6063	1,000.0000	0.3000	245.9710	0.3132	0.0010	0.0850	Open
P-44	PRV-5	DMM_JUN_2788	11.6103	1,000.0000	0.3000	245.9710	0.3132	0.0010	0.0849	Open
DMM_PIP_2565A	DMAV111	DMM_6915	217.6934	400.0000	0.3000	14.7992	0.1178	0.0091	0.0419	Open
DMM_PIP_3359	DMM_JUN_3186 DMM_JUN_2684	DMAV108 DMM_JUN_3186	2,085.5044	400.0000	0.3000	8.8599 -222.0662	0.0705	0.0342 0.0843	0.0164	Open
DMM_PIP_2259 DMM_PIP_2263	DMM_JUN_2684	DMAV109	17.7265	400.0000	0.3000	15.7356	0.2627	0.0043	0.0700	Open Open
DMM_PIP_2203	DMM_JUN_2682	DMM_JUN_2684	619.1663	1.000.0000	0.3000	-206.2744	0.2626	0.0377	0.0609	Open
DMM_PIP_2263A	DMAV109	DMM_JUN_3188	53.9229	400.0000	0.3000	15.7356	0.1252	0.0025	0.0470	Open
DMM_PIP_2261	DMM_JUN_2682	DMAV110	13.2038	400.0000	0.3000	7.3629	0.0586	0.0002	0.0116	Open
DMM_PIP_2265	DMM_JUN_2682	DMM_JUN_3190	909.0325	1,000.0000	0.3000	198.8154	0.2531	0.0516	0.0567	Open
DMM_PIP_2261A	DMAV110	DMM_5853	267.3479	400.0000	0.3000	7.3629	0.0586	0.0031	0.0117	Open
DMM_12544	DMM_JUN_1186	DMM_5853	229.3976	197.3000	0.3000	-2.5850 16.6841	0.0846	0.0128	0.0559	Open
DMM_PIP_2267	DMM_JUN_3192 DMAV107	DMAV107 DMM_JUN_3194	26.6324 91.9454	400.0000	0.3000	16.6841	0.1328	0.0014 0.0048	0.0522	Open Open
DMM_PIP_2267A DMM_PIP_2591	DMM_JUN_2802	DMIN_30N_3194	36.8191	400.0000	0.3000	9.2503	0.1326	0.0048	0.0525	Open
DMM_PIP_2591A	DMAV106	DMM_5301	105.8917	400.0000	0.3000	9.2503	0.0736	0.0007	0.0177	Open
25452	197	DMAV102	9.1541	400.0000	0.3000	7.7865	0.0620	0.0001	0.0132	Open
25452A	DMAV102	10789	20.7717	400.0000	0.3000	7.7865	0.0620	0.0003	0.0130	Open
25458	10800	5447	7.3498	400.0000	0.3000	1.5617	0.0124	0.0000	0.0006	Open
25450	196	DMAV103	2.4820	400.0000	0.3000	3.0668	0.0244	0.0000	0.0037	Open
25450A	DMAV103	10795	5.7802	400.0000	0.3000	3.0668	0.0244	0.0000	0.0024	Open
DMM_PIP_3359A	DMAV108	DMM_JUN_3184	102.6905	400.0000	0.3000	8.8599	0.0705	0.0017	0.0164	Open
DMM_PIP_2821	DMM_3337 DMAV179	DMAV179 DMM_JUN_3320	4.7012 9.3109	400.0000	0.3000	63.5251 63.5251	0.5055	0.0031	0.6559	Open Open
P517 DMM_PIP_3073	DMM_VAL_8196	DMM_JUN_2984	13.4179	1,000.0000	0.3000	440.1241	0.5604	0.0035	0.0504	Open
DMM_PIP_2203	DMM_UN 2986	DMM_VAL_8196	8.9744	1,000.0000	0.3000	440.1241	0.5604	0.0023	0.2602	Open
DMM_PIP_3063	DMM JUN 2984	DMM JUN 2776	854.3405	1,000.0000	0.3000	439.9418	0.5602	0.2222	0.2601	Open
DMM_PIP_2535	DMM_JUN_2776	DMM_JUN_2778	499.8027	1,000.0000	0.3000	438.9566	0.5589	0.1294	0.2590	Open
DMM_PIP_2541	DMM_JUN_2778	DMM_JUN_3158	15.9318	400.0000	0.3000	88.0169	0.7004	0.0196	1.2331	Open
DMM_PIP_2537	DMM_JUN_2778	DMM_JUN_2884	46.5671	1,000.0000	0.3000	350.4987	0.4463	0.0078	0.1678	Open
DMM_PIP_2817	DMM_JUN_2884	DMM_JUN_2780	1,581.9928	1,000.0000	0.3000	349.1737	0.4446	0.2634	0.1665	Open
DMM_PIP_2545	DMM_JUN_2780	DMM_JUN_3160 DMM_JUN_2782	17.7056 806.1272	400.0000	0.3000	63.5105	0.5054	0.0116	0.6559	Open
DMM_PIP_2543	DMM_JUN_2780					285.6429		0.0913	0.1132	Open
									0.0000	<u> </u>
P409	DMAV133	DMM_17921	37.9889	197.3000	0.1000	0.0000	0.0000	0.0000	0.0000	Open
			37.9889	197.3000	0.1000	0.0000	0.0000	0.0000		<u> </u>
			37.9889 Length	197.3000 Diameter	0.1000 Roughness	0.0000 Flow	0.0000 Velocity	0.0000 Headloss	HL/1000	<u> </u>
P409	DMAV133	DMM_17921	37.9889	197.3000	0.1000	0.0000	0.0000	0.0000		Open
P409	DMAV133 From Node	DMM_17921 To Node	37.9889 Length (m)	197.3000 Diameter (mm)	0.1000 Roughness (mm)	0.0000 Flow (L/s)	0.0000 Velocity (m/s)	0.0000 Headloss (m)	HL/1000 (m/k-m)	Open Status
P409 ID P407	DMAV133 From Node DMM_1813	DMM_17921 To Node DMAV133	37.9889 Length (m) 30.8326	197.3000 Diameter (mm) 197.3000	0.1000 Roughness (mm) 0.1000	0.0000 Flow (L/s) 0.0000	0.0000 Velocity (m/s) 0.0000	0.0000 Headloss (m) 0.0000	HL/1000 (m/k-m) 0.0000	Open Status Open
P409 ID P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3337	DMAV133 From Node DMM_1813 DMM_JUN_2782 DMM_JUN_3416 DMM_JUN_3416	DMM_17921 To Node DMAV133 DMM_JUN_3162 DMM_JUN_3164 DMM_JUN_3414	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183	197.3000 Diameter (mm) 197.3000 400.0000 1,000.0000 400.0000	0.1000 Roughness (mm) 0.1000 0.3000 0.3000 0.3000	0.0000 Flow (L/s) 0.0000 85.7187 68.7724 130.9520	0.0000 Velocity (m/s) 0.0000 0.6821 0.0876 1.0421	0.0000 Headloss (m) 0.0000 0.0444 0.0024 0.1314	HL/1000 (m/k-m) 0.0000 1.1714 0.0078 2.6749	Open Status Open Open Open Open
P409 ID P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3337 DMM_PIP_2547	DMAV133 From Node DMM_1813 DMM_JUN_2782 DMM_JUN_3416 DMM_JUN_3416 DMM_JUN_2782	To Node DMAV133 DMAV133 DMM_JUN_3162 DMM_JUN_3164 DMM_JUN_3414 DMM_JUN_3416	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835	197.3000 Diameter (mm) 197.3000 400.0000 1,000.0000 400.0000 1,000.0000	0.1000 Roughness (mm) 0.1000 0.3000 0.3000 0.3000 0.3000	0.0000 Flow (L/s) 0.0000 85.7187 68.7724 130.9520 199.7996	0.0000 Velocity (m/s) 0.0000 0.6821 0.0876 1.0421 0.2544	0.0000 Headloss (m) 0.0000 0.0444 0.0024 0.1314 0.0227	HL/1000 (m/k-m) 0.0000 1.1714 0.0078 2.6749 0.0573	Open Status Open Open Open Open Open
P409 ID P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3377 DMM_PIP_2547 P381	DMAV133 From Node DMM_1813 DMM_JUN_2782 DMM_JUN_3416 DMM_JUN_3416 DMM_JUN_2782 DMAV121	DMM_17921 To Node DMAV133 DMM_JUN_3162 DMM_JUN_3164 DMM_JUN_3414 DMM_JUN_3416 DMM_12447	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475	197.3000 Diameter (mm) 197.3000 400.0000 1,000.0000 400.0000 1,000.0000 260.4000	0.1000 Roughness (mm) 0.1000 0.3000 0.3000 0.3000 0.3000 0.1000	0.0000 Flow (L's) 0.0000 85.7187 68.7724 130.9520 199.7996 0.0000	0.0000 Velocity (m/s) 0.0000 0.6821 0.0876 1.0421 0.2544 0.0000	0.0000 Headloss (m) 0.0000 0.0444 0.0024 0.1314 0.0227 0.0000	HL/1000 (m/k-m) 0.0000 1.1714 0.0078 2.6749 0.0573 0.0000	Open Status Open Open Open Open Open Open
P409 ID P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_2547 P381 P379	DMAV133 From Node DMM_1813 DMM_JUN_2782 DMM_JUN_3416 DMM_JUN_3416 DMM_JUN_2782 DMAV121 DMAV121 DMM_JUN_3164	DMM_17921 To Node DMAV133 DMM_JUN_3162 DMM_JUN_3164 DMM_JUN_3414 DMM_JUN_3416 DMM_12447 DMM_12447 DMMV121	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322	197.3000           Diameter (mm)           197.3000           400.0000           1,000.0000           400.0000           1,000.0000           260.4000           260.4000	0.1000 Roughness (mm) 0.1000 0.3000 0.3000 0.3000 0.3000 0.3000 0.1000	0.0000 Flow (L/s) 0.0000 85.7187 68.7724 130.9520 199.7996 0.0000 0.0000	0.0000 Velocity (m/s) 0.0000 0.6821 0.0876 1.0421 0.2544 0.0000 0.0000	0.0000 Headloss (m) 0.0000 0.0444 0.024 0.1314 0.0227 0.0000 0.0000	HL/1000 (m/k-m) 0.0000 1.1714 0.0078 2.6749 0.0573 0.0000 0.0000	Open Status Open Open Open Open Open Open Open
P409 ID P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_2337 DMM_PIP_2547 P381 P379 DMM_PIP_3201	DMAV133 From Node DMM_1813 DMM_JUN_2782 DMM_JUN_3416 DMM_JUN_3416 DMM_JUN_2782 DMAV121 DMM_JUN_3164 DMM_JUN_3164	DMM_17921 To Node DMAV133 DMM_JUN_3162 DMM_JUN_3164 DMM_JUN_3414 DMM_JUN_3416 DMM_12447 DMMV121 DMMV121 DMM_JUN_3312	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372	197.3000 Diameter (mm) 197.3000 400.0000 1,000.0000 400.0000 1,000.0000 260.4000 260.4000 1,000.0000	0.1000 Roughness (mm) 0.1000 0.3000 0.3000 0.3000 0.3000 0.1000 0.1000 0.3000	0.0000 Flow (L/s) 0.0000 85.7187 68.7724 130.9520 199.7996 0.0000 0.0000 68.7379	0.0000           Velocity (m/s)           0.0000           0.6821           0.0876           1.0421           0.2544           0.0000           0.0000           0.0000           0.0007	0.0000 Headloss (m) 0.0000 0.0444 0.0247 0.0002 0.0000 0.0000 0.0000	HL/1000 (m/k-m) 0.0000 1.1714 0.0078 2.6749 0.0573 0.0000 0.0000 0.0000	Open Status Open Open Open Open Open Open Open Open
P409 ID P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3337 DMM_PIP_2547 P381 P379 DMM_PIP_3201 DMM_PIP_3887	DMAV133 From Node DMM_1813 DMM_JUN_2782 DMM_JUN_3416 DMM_JUN_3416 DMM_JUN_2782 DMAV121 DMM_JUN_3164 DMM_JUN_3164 DMM_JUN_3312	DMM_17921           To Node           DMAV133           DMM_JUN_3162           DMM_JUN_3164           DMM_JUN_3416           DMM_JUN_3416           DMM_12447           DMAV121           DMM_JUN_2312           DMM_JUN_2600	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955	197.3000 Diameter (mm) 197.3000 400.0000 1,000.0000 400.0000 260.4000 260.4000 1,000.0000	0.1000 Roughness (mm) 0.1000 0.3000 0.3000 0.3000 0.1000 0.1000 0.3000 0.3000	0.0000 Flow (L/s) 0.0000 85.7187 68.7724 130.9520 199.7996 0.0000 0.0000 68.7379 12.8918	0.0000 Velocity (m/s) 0.0000 0.6821 0.0876 1.0421 0.2544 0.0000 0.0000 0.0000 0.0875 0.1026	0.0000 Headloss (m) 0.0000 0.0444 0.0024 0.1314 0.0227 0.0000 0.0000 0.0002 0.0002	HL/1000 (m/k-m) 0.0000 1.1714 0.0078 2.6749 0.0573 0.0000 0.0000 0.0000 0.00078 0.0327	Open Status Open Open Open Open Open Open Open Open
P409 ID P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_2337 DMM_PIP_2547 P381 P379 DMM_PIP_3201	DMAV133 From Node DMM_1813 DMM_JUN_2782 DMM_JUN_3416 DMM_JUN_3416 DMM_JUN_2782 DMAV121 DMM_JUN_3164 DMM_JUN_3164	DMM_17921 To Node DMAV133 DMM_JUN_3162 DMM_JUN_3164 DMM_JUN_3414 DMM_JUN_3416 DMM_12447 DMMV121 DMMV121 DMM_JUN_3312	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372	197.3000 Diameter (mm) 197.3000 400.0000 1,000.0000 400.0000 1,000.0000 260.4000 260.4000 1,000.0000	0.1000 Roughness (mm) 0.1000 0.3000 0.3000 0.3000 0.3000 0.1000 0.1000 0.3000	0.0000 Flow (L/s) 0.0000 85.7187 68.7724 130.9520 199.7996 0.0000 0.0000 68.7379	0.0000           Velocity (m/s)           0.0000           0.6821           0.0876           1.0421           0.2544           0.0000           0.0000           0.0000           0.0007	0.0000 Headloss (m) 0.0000 0.0444 0.0247 0.0002 0.0000 0.0000 0.0000	HL/1000 (m/k-m) 0.0000 1.1714 0.0078 2.6749 0.0573 0.0000 0.0000 0.0000	Open Status Open Open Open Open Open Open Open Open
P409 P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3377 DMM_PIP_2547 P381 P379 DMM_PIP_3201 DMM_PIP_3587 DMM_PIP_3579	DMAV133 From Node DMM_1813 DMM_JUN_2782 DMM_JUN_3416 DMM_JUN_3416 DMM_JUN_2782 DMAV121 DMM_JUN_3164 DMM_JUN_3164 DMM_JUN_3164 DMM_JUN_3312 DMM_JUN_3312	DMM_17921           To Node           DMAV133           DMM_JUN_3162           DMM_JUN_3164           DMM_JUN_3416           DMM_12UN_3416           DMM_12447           DMM_JUN_3312           DMM_JUN_3312           DMM_JUN_3316	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 1,192.9900	197.3000 Diameter (mm) 197.3000 400.0000 1,000.0000 1,000.0000 260.4000 260.4000 1,000.0000 1,000.0000	0.1000 Roughness (mm) 0.1000 0.3000 0.3000 0.3000 0.1000 0.1000 0.3000 0.3000 0.3000 0.3000	0.0000 Flow (L/s) 0.0000 85.7187 68.7724 130.9520 199.7996 0.0000 0.0000 68.7379 12.8918 55.6166	0.0000 Velocity (m/s) 0.0000 0.6821 0.0876 1.0421 0.2544 0.0000 0.0000 0.0875 0.1026 0.0708	0.0000 Headloss (m) 0.0000 0.0444 0.0227 0.0000 0.0000 0.0002 0.0002 0.0003 0.0003	HL/1000 (m/k-m) 0.0000 1.1714 0.0078 2.6749 0.0573 0.0000 0.0078 0.00078 0.0327 0.0053	Open Status Open Open Open Open Open Open Open Open
P409 ID P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3337 DMM_PIP_547 P381 P379 DMM_PIP_3201 DMM_PIP_3201 DMM_PIP_3587 DMM_PIP_3579 P415	DMAV133 From Node DMM_1813 DMM_JUN_2782 DMM_JUN_2782 DMM_JUN_3416 DMM_JUN_2782 DMAV121 DMM_JUN_3164 DMM_JUN_3312 DMM_JUN_3312 DMM_JUN_3312 DMM_JUN_3312 DMM_V136 DMM_JUN_3316	DMM_17921           To Node           DMAV133           DMM_JUN_3162           DMM_JUN_3164           DMM_JUN_3414           DMM_JUN_3416           DMM_12447           DMM_JUN_3312           DMM_JUN_3312           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 1,192.9900 30.0804	197.3000 Diameter (mm) 197.3000 400.0000 1,000.0000 1,000.0000 260.4000 260.4000 260.4000 400.0000 400.0000 276.6000	0.1000 Roughness (mm) 0.1000 0.3000 0.3000 0.3000 0.1000 0.1000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.3000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.3000 0.1000 0.3000 0.1000 0.3000 0.3000 0.1000 0.3000 0.1000 0.3000 0.1000 0.3000 0.1000 0.3000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.1000 0.100	0.0000 Flow (L/s) 0.0000 85.7187 68.7724 130.9520 199.7996 0.0000 0.0000 68.7379 12.8918 55.6166 36.9119	0.0000 Velocity (m/s) 0.0000 0.6821 0.0876 1.0421 0.2544 0.0000 0.0000 0.0875 0.1026 0.0708 0.6143	0.0000 Headloss (m) 0.0000 0.0444 0.0024 0.0024 0.0027 0.0000 0.0000 0.0002 0.0000 0.0003 0.0063 0.0388	HL/1000 (m/k-m) 0.0000 1.1714 0.0078 2.6749 0.0573 0.0000 0.0000 0.0000 0.00078 0.0327 0.0053 1.2883	Open Status Open Open Open Open Open Open Open Open
P409 ID P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3377 DMM_PIP_2547 P381 P379 DMM_PIP_3587 DMM_PIP_3587 DMM_PIP_3579 P415 P419 DMM_PIP_3343 DMM_PIP_3583	DMAV133 From Node DMM_1813 DMM_JUN_2782 DMM_JUN_3416 DMM_JUN_3416 DMM_JUN_2782 DMAV121 DMM_JUN_3164 DMM_JUN_3164 DMM_JUN_3312 DMM_JUN_3312 DMM_JUN_3312 DMM_JUN_3312 DMM_JUN_3316 DMM_JUN_3316	DMM_17921           To Node           DMAV133           DMM_JUN_3162           DMM_JUN_3164           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3316           DMM_JUN_3312           DMM_JUN_3316           DMM_JUN_3318           DMM_JUN_3318           DMM_JUN_3314	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 996.3835 17.4475 19.2322 543.8372 9.3955 1,192.9900 30.0804 56.3494 3.4290 839.1509	197.3000 Diameter (mm) 197.3000 400.0000 1,000.0000 260.4000 260.4000 260.4000 1,000.0000 1,000.0000 276.6000 276.6000 276.6000 1,000.0000	0.1000 Roughness (mm) 0.1000 0.3000 0.3000 0.3000 0.1000 0.3000 0.3000 0.3000 0.3000 0.1000 0.3000 0.3000 0.3000 0.3000	0.0000 Flow (L/s) 0.0000 85.7187 68.7724 130.9520 199.7996 0.0000 0.0000 0.0000 0.0000 0.0000 68.7379 12.8918 55.6166 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9119 36.9	0.0000 Velocity (m/s) 0.0000 0.6821 0.0876 1.0421 0.2544 0.0000 0.0875 0.02544 0.0000 0.0875 0.1026 0.0708 0.6143 0.6143 0.3309 0.3309 0.0179	0.0000 Headloss (m) 0.0000 0.0444 0.1314 0.0227 0.0000 0.0000 0.0002 0.0003 0.0003 0.0063 0.0388 0.0726 0.0010 0.0004	HL/1000 (m/k-m) 0.0000 1.1714 0.0078 2.6749 0.0573 0.0000 0.00078 0.0327 0.0053 1.2883 1.2883 0.2903 0.0004	Open       Status       Open
P409 ID P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3377 DMM_PIP_2547 P379 DMM_PIP_3587 DMM_PIP_3587 DMM_PIP_3587 P415 P419 DMM_PIP_3343 DMM_PIP_3883 DMM_PIP_3883	DMAV133 From Node DMM_1813 DMM_JUN_2782 DMM_JUN_3416 DMM_JUN_3416 DMM_JUN_2782 DMAV121 DMM_JUN_3164 DMM_JUN_3164 DMM_JUN_3312 DMM_JUN_3312 DMM_JUN_3312 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3156	DMM_17921           To Node           DMAV133           DMM_JUN_3162           DMM_JUN_3164           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3316           DMM_JUN_3318           DMM_JUN_3314           DMAV177	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 1.192.990 30.0804 56.3494 3.4290 839.1509 4.5805	197.3000 Diameter (mm) 197.3000 400.0000 1,000.0000 260.4000 260.4000 260.4000 260.4000 260.4000 260.4000 276.6000 276.6000 276.6000 276.6000 400.0000	0.1000 Roughness (mm) 0.1000 0.3000 0.3000 0.3000 0.1000 0.3000 0.3000 0.3000 0.3000 0.1000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	0.0000 Flow (L/s) 0.0000 85.7187 68.7724 130.9520 199.7996 0.0000 0.0000 68.7379 12.8918 55.6166 36.9119 36.9119 36.9119 14.0583 14.0251 0.0000	0.0000 Velocity (m/s) 0.0000 0.6821 0.0876 1.0421 0.2544 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0126 0.6143 0.6143 0.3099 0.0179 0.0000	0.0000 Headloss (m) 0.0000 0.0444 0.0227 0.0000 0.0000 0.0000 0.0002 0.0003 0.0063 0.0388 0.0726 0.0010 0.0004 0.0000	HL/1000 (m/k-m) 0.0000 1.1714 0.0078 2.6749 0.0573 0.0000 0.0000 0.0000 0.00078 0.0327 0.0053 1.2883 1.2883 1.2883 0.2903 0.0004 0.0000	Open       Status       Open
P409 ID P407 DMM_PIP_2549 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3337 DMM_PIP_2547 P379 DMM_PIP_3201 DMM_PIP_3509 P415 P419 DMM_PIP_3579 P415 P419 DMM_PIP_3543 DMM_PIP_3583 DMM_PIP_2819 P511	DMAV133 From Node DMM_1813 DMM_JUN_2782 DMM_JUN_3416 DMM_JUN_3416 DMM_JUN_2782 DMAV121 DMM_JUN_3164 DMM_JUN_3164 DMM_JUN_3312 DMM_JUN_3312 DMM_JUN_3312 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3156 DMAV177	DMM_17921           To Node           DMM_JUN_3162           DMM_JUN_3164           DMM_JUN_3184           DMM_JUN_3414           DMM_JUN_3416           DMM_JUN_3316           DMM_JUN_3312           DMM_JUN_3312           DMM_JUN_3316           DMM_JUN_3317           DMM_JUN_3318           DMM_JUN_3314           DMM_JUN_33154	37.9889 Length (m) 30.8326 31.35694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 1.192.990 30.0804 56.3494 3.4290 839.1509 4.5805 5.1596	197.3000 Diameter (mm) 197.3000 400.0000 1,000.0000 1,000.0000 260.4000 260.4000 260.4000 260.4000 260.4000 260.4000 1,000.0000 276.6000 276.6000 276.6000 276.6000 400.0000	0.1000 Roughness (mm) 0.1000 0.3000 0.3000 0.3000 0.1000 0.3000 0.3000 0.3000 0.1000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	0.0000 Flow (L/s) 0.0000 85.7187 68.7724 130.9520 199.7996 0.0000 0.0000 68.7379 12.8918 55.6166 36.9119 36.9119 36.9119 14.0251 0.0000 0.0000	0.0000 Velocity (m/s) 0.0000 0.6821 0.2544 0.2544 0.0000 0.0000 0.0000 0.0000 0.0708 0.6143 0.6143 0.6143 0.309 0.0179 0.0000	0.0000 Headloss (m) 0.0000 0.0444 0.1314 0.0227 0.0000 0.0042 0.0003 0.0042 0.0003 0.0063 0.0388 0.0726 0.0010 0.0000 0.0000	HL/1000 (m/k-m) 0.0000 1.1714 0.0078 2.6749 0.0573 0.0000 0.0000 0.0078 0.0027 0.0053 1.2883 1.2883 1.2883 0.2903 0.0004 0.0000	Open Status Open Open Open Open Open Open Open Open
P409 P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3317 DMM_PIP_2547 P391 DMM_PIP_2547 DMM_PIP_3201 DMM_PIP_3579 P415 P419 DMM_PIP_3583 DMM_PIP_3583 DMM_PIP_3583 DMM_PIP_2579	DMAV133  From Node DMM_1813 DMM_JUN_2782 DMM_JUN_3416 DMM_JUN_3416 DMM_JUN_3782 DMAV121 DMM_JUN_3164 DMM_JUN_3164 DMM_JUN_3312 DMM_JUN_3312 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316	DMM_17921           To Node           DMAV133           DMM_JUN_3162           DMM_JUN_3164           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3312           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3318           DMM_JUN_3314           DMM_JUN_3314           DMM_JUN_3314           DMM_JUN_3154           DMM_JUN_3178	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 1.192.9900 30.0804 56.3494 3.4290 839.1509 4.5805 5.1596 241.7037	197.3000 Diameter (mm) 197.3000 400.0000 1,000.0000 400.0000 260.4000 260.4000 260.4000 1,000.0000 1,000.0000 1,000.0000 276.6000 276.6000 276.6000 400.0000 400.0000	0.1000 Roughness (mm) 0.1000 0.3000 0.3000 0.3000 0.1000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	0.0000 Flow (L/s) 0.0000 85.7187 68.7724 130.9520 199.7996 0.0000 0.0000 68.7379 12.8918 55.6166 36.9119 36.9119 41.5833 14.0251 0.0000 0.0000 -0.1660	0.0000 Velocity (m/s) 0.0000 0.6821 0.0876 1.0421 0.2544 0.0000 0.0000 0.0000 0.0875 0.1026 0.0708 0.6143 0.6143 0.6143 0.3309 0.0179 0.0000 0.0000 0.0000	0.0000 Headloss (m) 0.0000 0.0444 0.024 0.1314 0.0227 0.0000 0.0042 0.0003 0.0042 0.0003 0.0063 0.0388 0.0726 0.0010 0.0004 0.0000 0.0000	HL/1000 (m/k-m) 0.0000 1.1714 0.0078 2.6749 0.0573 0.0000 0.0000 0.00078 0.0327 0.0053 1.2883 1.2883 0.2903 0.0004 0.0000 0.0000	Open           Status           Open
P409 P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3377 DMM_PIP_2547 P381 P379 DMM_PIP_25201 DMM_PIP_3587 DMM_PIP_3587 P415 P419 DMM_PIP_3583 DMM_PIP_3583 DMM_PIP_2819 P511 DMM_PIP_2579 DMM_PIP_2579 DMM_PIP_2595	DMAV133  From Node DMM_1813 DMM_JUN_2782 DMM_JUN_3416 DMM_JUN_3416 DMM_JUN_2782 DMAV121 DMM_JUN_3164 DMM_JUN_3164 DMM_JUN_3312 DMM_JUN_3312 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3316 DMM_JUN_3356 DMM_JUN_3356 DMM_JUN_3256 DMM_JUN_2928	DMM_17921           To Node           DMA_133           DMM_JUN_3162           DMM_JUN_3164           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3316           DMM_JUN_3318           DMM_JUN_3318           DMM_JUN_3318           DMM_JUN_3314           DMM_JUN_3318           DMM_JUN_3318           DMM_JUN_3178           DMM_JUN_3178           DMM_JUN_2926	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 996.3835 17.4475 19.2322 543.8372 9.3955 1,192.9900 30.0804 56.3494 3.4290 839.1509 4.5805 5.1596 241.7037 93.7455	197.3000 Diameter (mm) 197.3000 400.0000 1,000.0000 260.4000 260.4000 260.4000 260.4000 1,000.0000 1,000.0000 276.6000 276.6000 276.6000 1,000.0000 400.0000 400.0000 1,600.0000	0.1000 Roughness (mm) 0.1000 0.3000 0.3000 0.3000 0.1000 0.1000 0.3000 0.3000 0.1000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 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0.0726 0.0010 0.0000 0.0000 0.0000 0.0000 0.1818	HL/1000 (m/k-m) 0.0000 1.1714 0.0078 2.6749 0.0573 0.0000 0.0000 0.0078 0.0327 0.0053 1.2883 1.2883 0.2903 0.0004 0.0000 0.0000 0.0000 1.9388	Open       Status       Open
P409 ID P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3377 DMM_PIP_2547 P379 DMM_PIP_3587 DMM_PIP_3587 DMM_PIP_3587 DMM_PIP_3583 DMM_PIP_2819 P511 DMM_PIP_2819 P511 DMM_PIP_2859 DMM_PIP_2957	DMAV133           From Node           DMM_1813           DMM_JUN_2782           DMM_JUN_3416           DMM_JUN_2782           DMM_JUN_2782           DMMJUN_3116           DMM_JUN_3164           DMM_JUN_3164           DMM_JUN_3312           DMM_JUN_3316           DMM_JUN_3317           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3156           DMM_JUN_3156           DMM_JUN_2928           DMM_JUN_2924	DMM_17921           To Node           DMAV133           DMM_JUN_3162           DMM_JUN_3164           DMM_JUN_3164           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3318           DMM_JUN_3178           DMM_JUN_3178           DMM_JUN_3178           DMM_JUN_2926           DMM_JUN_2928	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 17.4475 19.2322 543.8372 9.3955 30.0804 56.3494 3.4290 30.0804 56.3494 3.4290 839.1509 4.5805 5.1596 241.7037 93.7455 83.9169	197.3000 Diameter (mm) 197.3000 400.0000 1,000.0000 260.4000 260.4000 260.4000 260.4000 260.4000 276.6000 276.6000 276.6000 276.6000 276.6000 400.0000 400.0000 400.0000 1,600.0000	0.1000 Roughness (mm) 0.1000 0.3000 0.3000 0.3000 0.1000 0.1000 0.3000 0.3000 0.1000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	0.0000 Flow (L/s) 0.0000 85.7187 68.7724 130.9520 199.7996 0.0000 0.0000 68.7379 12.8918 55.6166 36.9119 36.9119 41.5833 14.0251 0.0000 -0.1660 4,199.9700 4,199.9700	0.0000 Velocity (m/s) 0.0000 0.6821 0.0876 1.0421 0.2544 0.0000 0.0000 0.0000 0.0000 0.0000 0.01026 0.6143 0.6143 0.309 0.0179 0.0000 0.0013 2.0889 2.0889	0.0000 Headloss (m) 0.0000 0.0444 0.1314 0.0227 0.0000 0.0000 0.0002 0.0003 0.0063 0.0088 0.0726 0.0010 0.0000 0.0000 0.0000 0.0000 0.0000 0.1818 0.1627	HL/1000 (m/k-m) 0.0000 1.1714 0.0078 2.6749 0.0573 0.0000 0.0000 0.0000 0.0078 1.2883 1.2883 1.2883 1.2883 0.2903 0.0004 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	Open           Status           Open
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P409 ID P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3337 DMM_PIP_2547 P381 DMM_PIP_3201 DMM_PIP_3579 P415 P419 DMM_PIP_3579 P415 P419 DMM_PIP_3583 DMM_PIP_2819 DMM_PIP_2859 DMM_PIP_2957 DMM_PIP_2955 DMM_PIP_2955 DMM_PIP_2953	DMAV133           From Node           DMM_1813           DMM_JUN_2782           DMM_JUN_3416           DMM_JUN_2782           DMM_JUN_2782           DMMJUN_3116           DMM_JUN_3164           DMM_JUN_3164           DMM_JUN_3312           DMM_JUN_3316           DMM_JUN_3317           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3156           DMM_JUN_3156           DMM_JUN_2928           DMM_JUN_2924	DMM_17921           To Node           DMAV133           DMM_JUN_3162           DMM_JUN_3164           DMM_JUN_3164           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3318           DMM_JUN_3178           DMM_JUN_3178           DMM_JUN_3178           DMM_JUN_2926           DMM_JUN_2928	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 17.4475 19.2322 543.8372 9.3955 30.0804 56.3494 3.4290 30.0804 56.3494 3.4290 839.1509 4.5805 5.1596 241.7037 93.7455 83.9169	197.3000 Diameter (mm) 197.3000 400.0000 1,000.0000 260.4000 260.4000 260.4000 260.4000 260.4000 276.6000 276.6000 276.6000 276.6000 276.6000 400.0000 400.0000 400.0000 1,600.0000	0.1000 Roughness (mm) 0.1000 0.3000 0.3000 0.3000 0.1000 0.1000 0.3000 0.3000 0.1000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000	0.0000 Flow (L/s) 0.0000 85.7187 68.7724 130.9520 199.7996 0.0000 0.0000 68.7379 12.8918 55.6166 36.9119 36.9119 41.5833 14.0251 0.0000 -0.1660 4,199.9700 4,199.9700	0.0000 Velocity (m/s) 0.0000 0.6821 0.0876 1.0421 0.2544 0.0000 0.0000 0.0000 0.0000 0.0000 0.01026 0.6143 0.6143 0.309 0.0179 0.0000 0.0013 2.0889 2.0889	0.0000 Headloss (m) 0.0000 0.0444 0.1314 0.0227 0.0000 0.0000 0.0002 0.0003 0.0063 0.0088 0.0726 0.0010 0.0000 0.0000 0.0000 0.0000 0.0000 0.1818 0.1627	HL/1000 (m/k-m) 0.0000 1.1714 0.0078 2.6749 0.0573 0.0000 0.0000 0.0000 0.0078 1.2883 1.2883 1.2883 1.2883 0.2903 0.0004 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000	Open           Status           Open
P409 ID P407 DMM_PIP_2549 DMM_PIP_2547 DMM_PIP_3717 DMM_PIP_2547 P381 P379 DMM_PIP_3201 DMM_PIP_3579 P415 P419 DMM_PIP_3583 DMM_PIP_2619 P511 DMM_PIP_2679 DMM_PIP_2955	DMAV133           From Node           DMM_1813           DMM_JUN_2782           DMM_JUN_2782           DMM_JUN_3416           DMM_JUN_2782           DMM_JUN_3164           DMM_JUN_3164           DMM_JUN_3312           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_2928           DMM_JUN_2928           DMM_JUN_2924           DMM_JUN_2918	DMM_17921           To Node           DMM_JUN_3162           DMM_JUN_3164           DMM_JUN_3164           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3312           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3318           DMM_JUN_3144           DMM_JUN_3154           DMM_JUN_3154           DMM_JUN_3178           DMM_JUN_2226           DMM_JUN_2282           DMM_JUN_2924	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 1.192.9900 30.0804 56.3494 3.4290 839.1509 4.5805 5.1596 241.7037 93.7455 83.9169 596.5691 2.794.4302	197.3000 Diameter (mm) 197.3000 400.0000 1,000.0000 1,000.0000 260.4000 260.4000 260.4000 1,000.0000 1,000.0000 1,000.0000 276.6000 276.6000 276.6000 400.0000 1,000.0000 400.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000	0.1000 Roughness (mm) 0.1000 0.3000 0.3000 0.3000 0.3000 0.1000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 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0.00000 0.000000	0.0000 Headloss (m) 0.0000 0.0444 0.0024 0.0024 0.0000 0.0000 0.0002 0.0003 0.0063 0.0088 0.0726 0.0010 0.0004 0.0000 0.0000 0.0000 0.0000 0.0000 0.1818 0.1627 1.1567 5.4181	HL/1000 (m/k-m) 0.0000 1.1714 0.0078 2.6749 0.0573 0.0000 0.0000 0.0000 0.0078 0.0327 0.0053 1.2883 1.2883 1.2883 0.2903 0.0004 0.0000 0.0000 0.0000 1.9388 1.9389 1.9389	Open           Status           Open
P409 P407 P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3377 P381 P379 DMM_PIP_2547 P381 DMM_PIP_3587 DMM_PIP_3587 DMM_PIP_3583 DMM_PIP_3583 DMM_PIP_2819 P511 DMM_PIP_2859 DMM_PIP_2957 DMM_PIP_2957 DMM_PIP_2955 DMM_PIP_2951	DMAV133           From Node           DMM_1813           DMM_JUN_2782           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_2782           DMM_JUN_3164           DMM_JUN_3164           DMM_JUN_3164           DMM_JUN_3312           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3282           DMM_JUN_2928           DMM_JUN_2928 <td>DMM_17921           To Node           DMM_JUN_3162           DMM_JUN_3162           DMM_JUN_3164           DMM_JUN_3164           DMM_JUN_3114           DMM_JUN_3414           DMM_JUN_3416           DMM_JUN_3316           DMM_JUN_3312           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3317           DMM_JUN_3318           DMM_JUN_3178           DMM_JUN_2928           DMM_JUN_2928           DMM_JUN_2928           DMM_JUN_2928           DMM_JUN_2920           DMM_JUN_2920           DMM_JUN_2920           DMM_14474</td> <td>37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 1.192.930 30.0804 56.3494 3.4290 30.0804 56.3494 4.5805 5.1596 241.7037 93.7455 83.9169 596.5691 2.794.4302 2.332.0760 12.3237</td> <td>197.3000 Diameter (mm) 197.3000 400.0000 400.0000 260.4000 260.4000 260.4000 260.4000 1,000.0000 276.6000 276.6000 276.6000 276.6000 400.0000 1,000.0000 400.0000 1,000.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 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1.9389 1.9389</td> <td>Open           Status           Open           Open</td>	DMM_17921           To Node           DMM_JUN_3162           DMM_JUN_3162           DMM_JUN_3164           DMM_JUN_3164           DMM_JUN_3114           DMM_JUN_3414           DMM_JUN_3416           DMM_JUN_3316           DMM_JUN_3312           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3317           DMM_JUN_3318           DMM_JUN_3178           DMM_JUN_2928           DMM_JUN_2928           DMM_JUN_2928           DMM_JUN_2928           DMM_JUN_2920           DMM_JUN_2920           DMM_JUN_2920           DMM_14474	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 1.192.930 30.0804 56.3494 3.4290 30.0804 56.3494 4.5805 5.1596 241.7037 93.7455 83.9169 596.5691 2.794.4302 2.332.0760 12.3237	197.3000 Diameter (mm) 197.3000 400.0000 400.0000 260.4000 260.4000 260.4000 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0.0000 0.0000 0.000000	Open           Status           Open
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       DMM_JUN_2926           DMM_JUN_2928           DMM_JUN_2928           DMM_JUN_2929           DMM_JUN_2921           DMM_JUN_2922           DMM_JUN_2921           DMM_JUN_2922           DMM_JUN_2924           DMM_JUN_2926	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 996.3835 17.4475 19.2322 543.8372 9.3955 1,192.9900 30.0804 56.3494 3.4290 839.1509 4.5805 5.1596 241.7037 93.7455 83.9169 596.5691 2.794.4302 2.332.0760 12.3237 6.1337 20.7269 117.8040	197.3000 Diameter (mm) 197.3000 400.0000 400.0000 260.4000 260.4000 260.4000 260.4000 1,000.0000 276.6000 276.6000 276.6000 276.6000 1,000.0000 400.0000 1,000.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 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  DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3318           DMM_JUN_3314           DMM_JUN_3314           DMM_JUN_3318           DMM_JUN_23154           DMM_JUN_22626           DMM_JUN_22826           DMM_JUN_2918           DMM_JUN_2918           DMM_JUN_2220           DMM_JUN_2220           DMM_JUN_22320           DMM_JUN_2200           DMM_JUN_2201           DMM_JUN_2202           DMM_JUN_2202           DMM_JUN_2202           DMM_JUN_2202           DMM_JUN_2202           DMM_JUN_2202           DMM_JUN_2202           DMM_JUN_2202           DMM_JUN_2202           DMM_JUN_22020           DMM_JUN_22020 <td>37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 1,192.9900 30.0804 56.3494 3.4290 4.5805 5.1596 241.7037 93.7455 83.9169 596.5691 2,794.4302 2,332.0760 12.3237 6.1337 20.7269 117.8040 85.4643</td> <td>197.3000 Diameter (mm) 197.3000 400.0000 1,000.0000 260.4000 260.4000 260.4000 260.4000 1,000.0000 1,000.0000 276.6000 276.6000 276.6000 276.6000 400.0000 400.0000 400.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 600.0000 600.0000</td> <td>0.1000  Roughness (mm) 0.1000 0.3000 0.3000 0.3000 0.1000 0.1000 0.3000 0.3000 0.1000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 0.3000 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P409 ID P407 DMM_PIP_2549 DMM_PIP_3717 DMM_PIP_3377 DMM_PIP_2547 P379 DMM_PIP_3587 DMM_PIP_3587 DMM_PIP_3587 DMM_PIP_3583 DMM_PIP_3583 DMM_PIP_2819 P511 DMM_PIP_2819 P511 DMM_PIP_2859 DMM_PIP_2955 DMM_PIP_2955 DMM_PIP_2951 DMM_PIP_2051 DMM_PIP_3013 DMM_PIP_3013 DMM_PIP_3013 DMM_PIP_3465	DMAV133           From Node           DMM_1813           DMM_JUN_2782           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_2782           DMM_JUN_2782           DMM_JUN_3164           DMM_JUN_3164           DMM_JUN_3316           DMM_JUN_3312           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3156           DMM_JUN_2928           DMM_JUN_2924           DMM_JUN_2928           DMM_JUN_2928           DMM_JUN_2928           DMM_JUN_2928           DMM_JUN_2928           DMM_JUN_2846           DMM_JUN_2846           DMM_JUN_3260           DMM_JUN_3260	DMM_17921           To Node           DMM_JUN_3162           DMM_JUN_3162           DMM_JUN_3164           DMM_JUN_3164           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3312           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_33178           DMM_JUN_3178           DMM_JUN_2262           DMM_JUN_2262           DMM_JUN_2202           DMM_JUN_2202           DMM_JUN_2202           DMM_JUN_2202           DMM_JUN_2320           DMM_JUN_3260           JAMIAH_PS           DMAV317	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 1.192.920 30.0804 56.3494 3.4290 30.0804 56.3494 3.4290 30.0804 55.1596 241.7037 93.7455 5.1596 241.7037 93.7455 5.1596 591.574 4.302 2.332.0760 12.3237 6.1337 20.7269 117.8040 85.4643 2.356.1574	197.3000 Diameter (mm) 197.3000 400.0000 1,000.0000 1,000.0000 260.4000 260.4000 260.4000 260.4000 276.6000 276.6000 276.6000 276.6000 400.0000 400.0000 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DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3312           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3317           DMM_JUN_3154           DMM_JUN_3154           DMM_JUN_2926           DMM_JUN_2926           DMM_JUN_2926           DMM_JUN_2926           DMM_JUN_2926           DMM_JUN_2926           DMM_JUN_2926           DMM_JUN_2926           DMM_JUN_2926           DMM_JUN_2927           DMM_JUN_2928           DMM_JUN_2924           DMM_JUN_2927           DMM_JUN_2928           DMM_JUN_2820           DMM_JUN_3200           JAMIAH_PS           DMAV317           DMM_JUN_2848	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 1,192.902 543.8372 9.3955 1,192.9900 839.1509 4.5805 5.1596 241.7037 93.7455 83.9169 596.5691 2,794.4302 2,332.0760 12.3237 6.1337 20.7269 117.8040 85.4643 2,356.1574 56.3945	197.3000 Diameter (mm) 197.3000 1,000.0000 1,000.0000 1,000.0000 260.4000 260.4000 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0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.00000 0.00000 0.000000	Open           Status           Open
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DMM_JUN_2928           DMM_JUN_2928           DMM_JUN_2929           JAMIAH_TANK           DMM_JUN_3260           DMM_JUN_3260           JAMIAH_TANK           DMM_JUN_3260           JAMIAH_PS           DMM_JUN_2844	DMM_17921           To Node           DMM_JUN_3162           DMM_JUN_3164           DMM_JUN_3164           DMM_JUN_3164           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3416           DMM_JUN_3312           DMM_JUN_3316           DMM_JUN_3318           DMM_JUN_3318           DMM_JUN_3318           DMM_JUN_3154           DMM_JUN_2926           DMM_JUN_2928           DMM_JUN_2928           DMM_JUN_2920           DMM_JUN_2921           DMM_JUN_2922           DMM_JUN_2922           DMM_JUN_2926           DMM_JUN_2927           DMM_JUN_2928           DMM_JUN_2920           DMM_JUN_2921           DMM_JUN_2826           DMM_JUN_28260           JAMIAH_PS           DMAV317           DMM_V16	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 996.3835 17.4475 19.2322 543.8372 9.3955 1,192.9900 30.0804 56.3494 3.4290 839.1509 4.5805 5.1596 241.7037 93.7455 83.9169 596.5691 2.332.0760 12.3237 6.1337 20.7269 117.8040 85.4643 2.356.1574 56.3945 0.5643	197.3000 Diameter (mm) 197.3000 400.0000 400.0000 260.4000 260.4000 260.4000 260.4000 1,000.0000 276.6000 276.6000 276.6000 276.6000 400.0000 1,000.0000 1,000.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 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DMM_JUN_2928           DMM_JUN_2928           DMM_JUN_2928           DMM_JUN_2928           DMM_JUN_2928           DMM_JUN_2920           JAMIAH_TANK           DMM_JUN_3260           JAMIAH_TANK           DMM_JUN_2846           DMM_JUN_2840           DMM_JUN_2844           DMAV16	DMM_17921           To Node           DMM_JUN_3162           DMM_JUN_3164           DMM_JUN_3164           DMM_JUN_3164           DMM_JUN_3416           DMM_JUN_3417           DMM_JUN_3318           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3316           DMM_JUN_3318           DMM_JUN_3318           DMM_JUN_3318           DMM_JUN_3318           DMM_JUN_3318           DMM_JUN_3154           DMM_JUN_22260           DMM_JUN_22926           DMM_JUN_22928           DMM_JUN_22920           DMM_JUN_22920           DMM_JUN_2202           DMM_JUN_2202           DMM_JUN_2202           DMM_JUN_2203           DMM_JUN_2200           DMM_JUN_2201           DMM_JUN_2202           DMM_JUN_2202           DMM_JUN_2203           DMM_JUN_2204           DMM_JUN_2204           DMM_JUN_2204           DMM_JUN_2204           DMM_JUN_2204           DMM_JUN_2204           DMM_JUN_2848           DMAV16           DMM_S840	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 396.3835 17.4475 19.2322 543.8372 9.3955 1,192.9900 30.0804 56.3494 3.4290 4.5805 5.1596 241.7037 93.7455 83.9169 596.5691 2,794.4302 2,332.0760 12.3237 6.1337 20.7269 11.7.8040 85.4643 2,356.1574 56.3945 0.5643 2,356.057	197.3000 Diameter (mm) 197.3000 400.0000 1,000.0000 260.4000 260.4000 260.4000 260.4000 260.4000 276.6000 276.6000 276.6000 276.6000 400.0000 400.0000 400.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 600.0000 600.0000 600.0000 400.0000 400.0000 600.0000 600.0000 1,000.0000 600.0000 1,000.0000 600.0000 600.0000 600.0000 1,000.0000 600.0000 600.0000 600.0000 600.0000 600.0000 600.0000 600.0000 600.0000 000.0000 600.0000 000.0000 600.0000 000.0000 000.0000 000.0000 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DMM_JUN_3416           DMM_JUN_3312           DMM_JUN_3316           DMM_JUN_2800           DMM_JUN_2926           DMM_JUN_2928           DMM_JUN_2928           DMM_JUN_2928           DMM_JUN_2848           DMM_V16           DMAV16           DMM_S840           DMM_S39	37.9889 Length (m) 30.8326 37.9330 313.5694 49.1183 996.3835 17.4475 19.2322 543.8372 9.3955 1,192.9900 30.0804 56.3494 3.4290 839.1509 4.5805 5.1596 241.7037 93.7455 83.9169 596.5691 2.332.0760 12.3237 6.1337 20.7269 117.8040 85.4643 2.356.1574 56.3945 0.5643	197.3000 Diameter (mm) 197.3000 400.0000 1,000.0000 260.4000 260.4000 260.4000 260.4000 260.4000 276.6000 276.6000 276.6000 276.6000 276.6000 400.0000 400.0000 1,000.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,600.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 1,000.0000 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### 3.4.2 Pumps Operating Speeds

In ADD + FF scenario, pump operations and its operating speeds have been evaluated.

Figure 26 presents the pump operating speed and operation points. The pumps are performing as follows:

Dahyia pump is operating in the range of 0.52-0.65 of its operating speed to maintain the 4 bars pressure in the control junction (Table 5).

Tank 71 pump is operating in the range of 0.72-0.74 of its operating speed to maintain the 3.5 bar pressure in the control junction (Table 5).

Central Tank pump is operating in the range of 0.66-0.70 of its operating speed to maintain the 4 bars pressure in the control junction (Table 5).

MEW Tank 55 pump is operating in the range of 0.69-0.79 of its operating speed to maintain the 4 bars pressure in the control junction (Table 5).

Jamiah pump is operating in the range of 0.61-0.66 of its operating speed to maintain the 4 bars pressure in the control junction (Table 5).

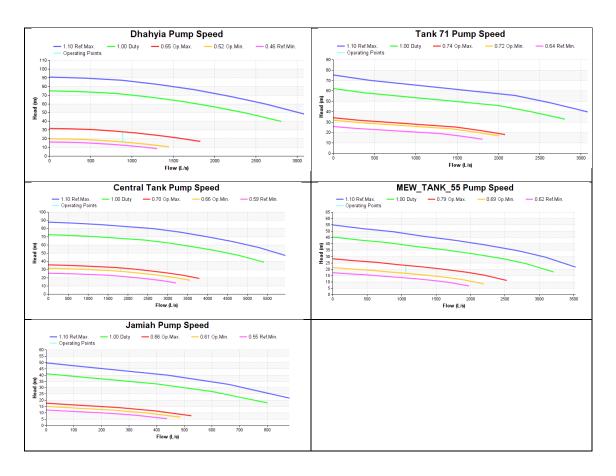


Figure 26- Pumps operating speeds and operation points





#### 3.4.3 Tanks Levels

Within ADD+FF scenario, the tank levels have been evaluated. It is assumed that the initial level of the tanks is around half their heights. Figure 27 presents the level of the five tanks in the scope of Dammam 2 and Dammam 5 projects.

It is evident that the tanks have large capacities to supply Dammam water system in this ADD+FF scenario.

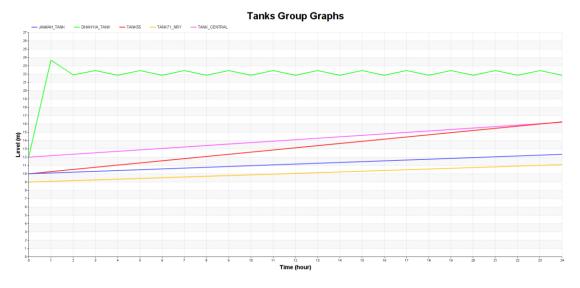


Figure 27- Tanks Levels (ADD+FF)

# 3.5 Aramco Emergency Scenario

In the RFP the Aramco emergency scenario is mentioned, such that if the Jamiah pump fails, the Aramco emergency pump in Tank 55 should be able to supply water to the south part of the system near Jamiah.

The following modifications have been made to the model:

- The outlet of the pump has been connected with the pipe 700 mm
- The throttle control valve (DMM\_VAL\_8122) has been open
- The pipe 700 mm between Pumps in Tank 55 and Aramco emergency pump has been closed
- The VSD properties of the Aramco emergency pump have been added as follows
  - Control Junction ID (J6)
  - o Control Pressure 4 bar
  - Minimum and Maximum speed settings of 0.6 and 1.2

Following mentioned above modification, this emergency scenario has been tested, and the results are presented below.

Figure 28 presents the pressure of the system during minimum hourly demand and Figure 29 presents the pressure during peak hourly demand. As can be seen, the emergency pump can supply water with enough pressure in case of an





emergency. Most of the system has a pressure of less than 4 bar, with a few points slightly above 4 bar acceptable during an emergency.

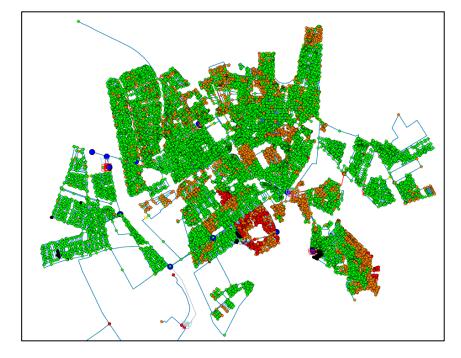


Figure 28- Pressure during minimum hourly demand (emergency Aramco)



Figure 29- Pressure during minimum hourly demand (emergency Aramco)





## 4 CONCLUSIONS AND OBSERVATIONS

As mentioned above, to match the RFP, the following modifications have been made to the received model:

- 2) Storage types and levels have been modified and adjusted according to the RFP
- 3) The duty points of the pump stations are updated according to the provided pump curves.
- 4) The Variable Speed Drive (VSD) characteristics of the pumps are defined
- 5) Several Pressure Reducing Valves are removed from the model within Dammam 2 and Dammam 5 projects

Hydraulic simulation has been performed for both original and modified models within two main scenarios and one emergency scenario considering the 2050 proposed water system option in the master plan.

The results showed that by modifying the model especially simulating the VSD properties of the pumps, the system performs better in terms of pressure and Energy efficiency, and several of the Pressure Reducing Valves (PRVs) can be removed from the hydraulic model.

Moreover, both original and modified models showed that the overall water system has low velocities of less than 0.3 m/s. However, by modifying the model, the velocity in the system slightly increases.





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