MANATEE COUNTY
FLORIDA

February 9, 2009

TO: All Interested Bidders

SUBJECT: **Invitation for Bid # 09-0505-DS**
Lakewood Ranch Master Lift Station

ADDENDUM # 2

Bidders are hereby notified that this Addendum shall be acknowledged on the Bid Form and made a part of the above named bidding and contract documents. Bids submitted without acknowledgement of the Addendum will be considered incomplete.

The following items are issued to add to, modify, and clarify the bid and contract documents. These items shall have the same force and effect as the original bidding and contract documents, and cost involved shall be included in the bid prices. Bids to be submitted on the specified bid date, shall conform to the additions and revisions listed herein.

Based upon instructions from the Project Manager, Mr. Sal Bordonaro, Manatee County Government, Public Works Department.

Q1. **Please supply working line pressures of the force-mains this station is pumping into and also the working pressures of the force-mains that are dumping into the station.**

A1. **Answer**: Attached is the pressure and flow date for the LWR master lift station outgoing force main as of January 30th 2009 (6 pages). The highest flow was 3857 gpm and the highest pressure was 51 psi. The pressure on the incoming force mains at the lift station should currently be close to zero psi near the wet well. The bidder can put a pressure gage at the ARV on the incoming lines to measure actual pressures prior to setting up bypass pumps. However, it is the responsibility of the contractor to set up a bypass pumping system that will maintain all incoming and outgoing flows that were present before the bypass pumping is setup. We would not allow a significant increase in pressure on the incoming force mains during bypass pumping because it could backup or flood upstream lift stations.

Finance Management Department
Mailing Address: Purchasing Division: 1112 Manatee Avenue West, Suite 803, Bradenton, FL 34205
PHONE: 941-749-3045 * FAX: 941-749-3034
www.mymanatee.org

Q2. What capacity of bypass pumping is required at the Lakewood Ranch master lift station?

A2. **Answer:** 150% of current station capacity is required for bypass pumping. There are 3 pumps, each with a capacity of 1520gpm at 122ft TDH .Bypass pumping required would be 1.5 x 1520gpm x 3 = 6,840gpm. This station is designed for 5 pumps, 3 have been installed for several years and two additional pumps are scheduled to be installed this year by another contractor."

Q3. Mr. Jim Marble, county lift station supervisor asked the project engineer if the base ells could be increased to 6" diameter, Mr. Stockwell, the project engineer agreed and recommended the bid forms and specs be revised accordingly.

A3. **Answer:** The bid forms and specs section 01150 pages 32 and 33 have been revised to indicate 6" base ells and 6" x 8" reducer, and are attached. Note that pay item 12 for 8" gate valves was missing in the bid form and is now shown on the bid forms.

Q4. **Specification Section 01150 pages 32 and 33 will now change.**

A4. **Answer:** Changes to read per revised documents, from Mr. James Stockwell, Project Engineer. Please see attached.

Q5. How does the discharge piping fit through the wet well wall if it has welded flanges?

A5. **Answer:** The contractor must field weld the flanges outside the wet well after inserting piping through the wet well wall.

Q6. Will an Underground Utility Contractor license be acceptable?

A6. **Answer:** The bid documents require a General Contractor's License. The project engineer will accept an Underground Utility Contractor License or General Contractor's License to meet licensing requirement for the bid.

Q7. Will HDPE pipe be an acceptable substitution for the Stainless Steel discharge piping?

A7. **Answer:** HDPE pipe will not be acceptable.

Q8. Will modifying the existing P trap in the valve drain line be in the scope of work?

A8. **Answer**: The answer is no, modifying the existing P trap in the valve drain line will not be in the scope of work.

Q9. What type of liner is in the existing wet well?

A9. **Answer:** "Spraywall", is the existing liner for the wet well.

Q10. Clarification of Supplier Information regarding Spraywall.

A10. Specification Section 01150, page 146 of 155 to read:
National Pipe Services
3522 US 41 North
Palmetto, Florida 34221
Phone (941) 723-2080
Fax (941) 723-2701

Bidders, please note to alter your plans accordingly to changes cited above.

END OF ADDENDUM # 2

Bids will be received at the Manatee County Purchasing Division, 1112 Manatee Avenue West, Suite 803, Bradenton, Florida 34205 until 2:00 P.M. on February 27, 2009.

Sincerely,

R. C. "Rob" Cuthbert, CPM, CPPO
Purchasing Division Manager

ds

BID FORM SECTION 00300
(Submit in Triplicate)
IFB# 09-0505-DS
220 CALENDAR DAYS

PROJECT NAME: Lakewood Ranch Master Lift Station
PROJECT NUMBER: 404-606781
SECTION/TWNSHP/RANGE: 20-35-19
PROJECT DESCRIPTION: Rehab wetwell and piping for lift station
PROJECT SITE DIMENSIONS: All work is within the lift station parcel

LIFT STATION

ITEM NO.	DESCRIPTION	UNITS	QTY.	UNIT PRICE ($)	EXTENDED PRICE ($)
1	**6"x 8"** DI Eccentric Reducer, FLG**(Addendum # 2 dated 2/9/09)**	EA	5		
2	By-Pass Pumping	LS	1		
3	Spraywall Liner (Repair) – Wet Well	SF	100		
4	Drain Down & Clean Wet Well	LS	1		
5	Remove Base Ells, Anchors, Piping, Valves, Bracing, Supports	LS	1		
6	8" SCH 10 S. S. (.316L) Piping W/Welded SS Flanges	LF	80		
7	**6"** Pump Base Ells & Base Plates (Grinding/Leveling and Grout As Req'd) **(Addendum # 2 dated 2/9/09)**	EA	5		
8	EBBA Series 2100 Mega Flange Restrained FLG Adapter or Approved Equal	EA	15		
9	8"- 90 Degree Bend, SCH 10 SS (316L) w/Welded SS	EA	5		
10	S.S. Adjustable Pipe Support	EA	5		
11	8" Swing Check Valve	EA	5		
12	8" Gate Valve **(Addendum # 2 dated 2/9/09)**	EA	5		
13	Install ¼"x 2 S.S. (304) Pipe Bracing System	EA	10		
14	DI Fittings	LB	100		
15	Retain/Reinstall Exist. S. S. Pump Guide Rail System	LF	5		
16	Install New Linkseal at WW Wall for SCH 10 SS Piping	EA	5		
17	Asphalt Driveway Repair: Remove& Replace Inc. Subgrade	SY	18		
18	Mobilization (Max 10% of Total Bid)	LS	1		
19	Miscellaneous Work & Clean Up (% of Sub Total)	LS	1		
20	Discretionary				$ 15,800.00
TOTAL BID PRICE					

BIDDER_____
Addendum No_____ Dated_____
Addendum No_____ Dated_____

BID FORM SECTION 00300
(Submit in Triplicate)
IFB# 09-0505-DS
270 CALENDAR DAYS

PROJECT NAME: Lakewood Ranch Master Lift Station
PROJECT NUMBER: 404-606781
SECTION/TWNSHP/RANGE: 20-35-19
PROJECT DESCRIPTION: Rehab wetwell and piping for lift station
PROJECT SITE DIMENSIONS: All work is within the lift station parcel

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10	S.S. Adjustable Pipe Support	EA	5		
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13	Install ¼"x 2 S.S. (304) Pipe Bracing System	EA	10		
14	DI Fittings	LB	100		
15	Retain/Reinstall Exist. S. S. Pump Guide Rail System	LF	5		
16	Install New Linkseal at WW Wall for SCH 10 SS Piping	EA	5		
17	Asphalt Driveway Repair: Remove& Replace Inc. Subgrade	SY	18		
18	Mobilization (Max 10% of Total Bid)	LS	1		
19	Miscellaneous Work & Clean Up (% of Sub Total)	LS	1		
20	Discretionary				$ 15,800.00
TOTAL BID PRICE					

BIDDER_____
Addendum No_____ Dated_____
Addendum No_____ Dated_____

No separate payment will be made for the following items and the cost of such work shall be included in the applicable pay items of work. Final payments shall not be requested by the Contractor or made by the Owner until as-built (record) drawings have been submitted and approved by the Engineer.

1. Shop Drawings, Working Drawings.
2. Clearing, grubbing and grading except as hereinafter specified.
3. Trench excavation, including necessary pavement removal and rock removal, except as otherwise specified.
4. Dewatering and disposal of surplus water.
5. Structural fill, backfill, and grading.
6. Replacement of unpaved roadways, and shrubbery plots.
7. Cleanup and miscellaneous work.
8. Foundation and borrow materials, except as hereinafter specified.
9. Testing and placing system in operation.
10. Any material and equipment required to be installed and utilized for the tests.
11. Pipe, structures, pavement replacement, asphalt and shell driveways and/or appurtenances included within the limits of lump sum work, unless otherwise shown.
12. Maintaining the existing quality of service during construction.
13. Maintaining or detouring of traffic.
14. Appurtenant work as required for a complete and operable system.
15. Seeding and hydromulching.
16. As-built Record Drawings.

(THE BID ITEM SECTION IS TO BE COMPLETED FOR EACH ITEM TO BE BID. EXAMPLES AS FOLLOWS)

BID ITEM NO. 1 - 6" x 8" DI ECCENTRIC REDUCER, FLG

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid listed in the Bid Form and shall represent full compensation for all labor, materials and equipment required to furnish and install this fitting, in accordance with these specifications and as shown on the Contract Drawings.

BID ITEM NO. 2 - BY-PASS PUMPING

Payment for all work included in this Bid Item shall be made at the applicable Contract lump sum price bid listed in the Bid Form for furnishing and installing the necessary by-pass pumping including, but not limited to, pumps, back-up pumps and power, pipe, temporary lines, vacuum trucks, specialized equipment, on-site monitoring, all requirements of the approved pumping plan, and other items implied, but not shown on the Contract Drawings and listed on the Bid Form.

The lump sum price bid shall also include full payment for appurtenances, including, but not limited to, barricades, fasteners, needed anchors, or other methods or restraint needed to secure the equipment and piping and shall represent full compensation for all labor and material as necessary to complete this Bid Item.

BID ITEM NO. 3 - LINER (REPAIR) - WET WELL

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price at the completion of Wet Well liner repairs as shown on the Contract Drawings and listed on the

Bid Form. Payment shall represent full compensation for all labor, materials and equipment required to perform all of the work for Wet Well Liner Repair as shown on the Contract Drawings and listed on the Bid Form.

BID ITEM NO. 4 - DRAIN DOWN & CLEAN WET WELL

Payment for all work included in this Bid Item shall be made at the Contract lump sum price bid for draining down and cleaning the wet well prior to working in the wet well. The Contractor shall be responsible for proper disposal of all removed materials and safety / confined space practices, in accordance with these specifications.

BID ITEM NO. 5 - REMOVE EXISTING PIPING & APPURTENANCES INCLUDING, BUT NOT LIMITED TO BASE ELLS, ANCHORS, PIPING - COMPLETE

Payment for all work included in this Bid Item shall be made at the Contract lump sum price bid for removing and disposing of all existing piping, base ells, bracing, pump rails, valves, fittings, etc. as shown on the Contract Drawings and listed in the Bid Documents. Manatee County shall have the option to pick up at the site, any removed valve or fitting for possible reuse. The Contractor shall be responsible for proper disposal of all removed materials not picked up by the Utility Operations Department, in accordance with these specifications.

BID ITEM NO. 6 - 8" DIA. SCH. 10 STAINLESS STEEL (316L) PIPING WITH WELDED SS FLANGES

Payment for all work included under this Bid Item shall be made at the Contract unit price bid for piping furnished and installed as shown on the Contract Drawings and listed in the Bid Documents, all in accordance with these Specifications, ready for approval and acceptance by the Engineer/Owner. The bid price shall include, but is not limited to, supply, fabrication, and welding of piping, flanges, bolts, gaskets, labor, equipment, excavation, bedding, backfill, and all other items, materials and incidentals to complete the installation.

BID ITEM NO. 7 - 6" PUMP BASE ELLS & BASE PLATES, COMPLETE

Payment for all work included under this Bid Item shall be made at the Contract unit price bid for each pump base ell and its associated base plate, furnished and installed as shown on the Contract Drawings and listed in the Bid Documents. The bid price shall include all other items, materials and incidentals necessary to complete this bid item, including grinding and leveling existing grout and regrouting, ready for approval and acceptance by the Engineer/Owner.

BID ITEM NO. 8 - RESTRAINED FLANGE ADAPTER

Payment for all work included under this Bid Item shall be made at the Contract unit price bid for each complete restrained flange adapter furnished and installed as shown on the Contract Drawings and listed in the Bid Documents. The bid price shall include, but is not limited to adapter, gaskets, bolts, excavation, bedding, backfill, compaction testing, and shall include all other items, materials and incidentals necessary to complete this bid item, in accordance with these Specifications, ready for approval and acceptance by the Engineer/Owner.

BID ITEM NO. 9 - 8" DIA. 90 DEGREE BEND SCH. 10 (316L), WELDED FLANGES

Payment for all work included in this Bid Item shall be made at the applicable Contract unit price bid listed in the Bid Form and shall represent full compensation for all labor, materials and equipment required to install this fitting, in accordance with these specifications and as shown on the Contract Drawings.

Detail Report

Detail Report On 362D3

From 00:00 01/30/09	**To** 24:00 01/30/09	**Time Filter** 00:00 - 24:00

January 30, 2009

Time	Address	Name	Status	Raw
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00:07:09	362D3	FORCE MAIN PRESSURE	18 PSI	1397
00:25:06	362D3	FORCE MAIN PRESSURE	33 PSI	1910
00:29:07	362D3	FORCE MAIN PRESSURE	23 PSI	1564
00:33:25	362D3	FORCE MAIN PRESSURE	17 PSI	1365
00:53:53	362D3	FORCE MAIN PRESSURE	44 PSI	2268
00:57:42	362D3	FORCE MAIN PRESSURE	24 PSI	1598
01:02:06	362D3	FORCE MAIN PRESSURE	16 PSI	1343
01:43:42	362D3	FORCE MAIN PRESSURE	22 PSI	1545
01:48:14	362D3	FORCE MAIN PRESSURE	28 PSI	1724
01:52:32	362D3	FORCE MAIN PRESSURE	20 PSI	1488
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02:18:04	362D3	FORCE MAIN PRESSURE	34 PSI	1927
02:21:56	362D3	FORCE MAIN PRESSURE	20 PSI	1479
02:25:51	362D3	FORCE MAIN PRESSURE	16 PSI	1333
03:30:00	362D3	FORCE MAIN PRESSURE	21 PSI	1498
03:34:03	362D3	FORCE MAIN PRESSURE	39 PSI	2112
03:37:56	362D3	FORCE MAIN PRESSURE	15 PSI	1316
04:26:36	362D3	FORCE MAIN PRESSURE	20 PSI	1471
04:30:22	362D3	FORCE MAIN PRESSURE	28 PSI	1729
04:37:53	362D3	FORCE MAIN PRESSURE	17 PSI	1372
05:40:52	362D3	FORCE MAIN PRESSURE	30 PSI	1818
05:45:02	362D3	FORCE MAIN PRESSURE	34 PSI	1936
05:53:30	362D3	FORCE MAIN PRESSURE	17 PSI	1381

06:15:49	362D3	FORCE MAIN PRESSURE	45 PSI	2290
06:20:06	362D3	FORCE MAIN PRESSURE	21 PSI	1502
06:25:01	362D3	FORCE MAIN PRESSURE	16 PSI	1359
06:34:14	362D3	FORCE MAIN PRESSURE	24 PSI	1589
06:43:21	362D3	FORCE MAIN PRESSURE	28 PSI	1736
07:11:19	362D3	FORCE MAIN PRESSURE	21 PSI	1493
07:16:49	362D3	FORCE MAIN PRESSURE	16 PSI	1358
07:21:49	362D3	FORCE MAIN PRESSURE	30 PSI	1807
07:29:22	362D3	FORCE MAIN PRESSURE	34 PSI	1937
07:48:35	362D3	FORCE MAIN PRESSURE	28 PSI	1721
07:53:13	362D3	FORCE MAIN PRESSURE	16 PSI	1358
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08:18:24	362D3	FORCE MAIN PRESSURE	28 PSI	1742
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11:06:18	362D3	FORCE MAIN PRESSURE	21 PSI	1494
11:10:52	362D3	FORCE MAIN PRESSURE	17 PSI	1380
11:15:43	362D3	FORCE MAIN PRESSURE	29 PSI	1757

11:20:10	362D3	FORCE MAIN PRESSURE	34 PSI	1931
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11:38:26	362D3	FORCE MAIN PRESSURE	30 PSI	1797
11:43:11	362D3	FORCE MAIN PRESSURE	44 PSI	2264
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11:57:15	362D3	FORCE MAIN PRESSURE	17 PSI	1367
12:01:46	362D3	FORCE MAIN PRESSURE	29 PSI	1776
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12:23:26	362D3	FORCE MAIN PRESSURE	26 PSI	1669
12:28:11	362D3	FORCE MAIN PRESSURE	34 PSI	1935
12:37:53	362D3	FORCE MAIN PRESSURE	23 PSI	1571
12:43:05	362D3	FORCE MAIN PRESSURE	16 PSI	1357
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13:24:04	362D3	FORCE MAIN PRESSURE	16 PSI	1342
13:41:51	362D3	FORCE MAIN PRESSURE	31 PSI	1843
13:46:09	362D3	FORCE MAIN PRESSURE	51 PSI	2496
13:51:14	362D3	FORCE MAIN PRESSURE	46 PSI	2316
13:55:23	362D3	FORCE MAIN PRESSURE	16 PSI	1343
14:00:21	362D3	FORCE MAIN PRESSURE	25 PSI	1636
14:05:17	362D3	FORCE MAIN PRESSURE	28 PSI	1734
14:19:00	362D3	FORCE MAIN PRESSURE	24 PSI	1593
14:23:37	362D3	FORCE MAIN PRESSURE	16 PSI	1341
14:33:00	362D3	FORCE MAIN PRESSURE	32 PSI	1866
14:42:09	362D3	FORCE MAIN PRESSURE	23 PSI	1576
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15:52:33	362D3	FORCE MAIN PRESSURE	33 PSI	1898
15:56:58	362D3	FORCE MAIN PRESSURE	17 PSI	1374
16:04:13	362D3	FORCE MAIN PRESSURE	44 PSI	2249
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16:45:51	362D3	FORCE MAIN PRESSURE	34 PSI	1936
16:50:30	362D3	FORCE MAIN PRESSURE	24 PSI	1603
16:54:53	362D3	FORCE MAIN PRESSURE	15 PSI	1308
17:09:23	362D3	FORCE MAIN PRESSURE	33 PSI	1889
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17:28:34	362D3	FORCE MAIN PRESSURE	28 PSI	1741
17:38:18	362D3	FORCE MAIN PRESSURE	20 PSI	1465
17:42:32	362D3	FORCE MAIN PRESSURE	16 PSI	1355
17:52:06	362D3	FORCE MAIN PRESSURE	33 PSI	1899
18:05:52	362D3	FORCE MAIN PRESSURE	17 PSI	1380
18:10:36	362D3	FORCE MAIN PRESSURE	34 PSI	1921
18:14:54	362D3	FORCE MAIN PRESSURE	27 PSI	1702
18:19:23	362D3	FORCE MAIN PRESSURE	16 PSI	1353
18:24:26	362D3	FORCE MAIN PRESSURE	25 PSI	1641

18:29:23	362D3	FORCE MAIN PRESSURE	28 PSI	1738
18:48:18	362D3	FORCE MAIN PRESSURE	18 PSI	1395
18:56:58	362D3	FORCE MAIN PRESSURE	30 PSI	1813
19:01:26	362D3	FORCE MAIN PRESSURE	34 PSI	1934
19:15:44	362D3	FORCE MAIN PRESSURE	18 PSI	1409
19:26:32	362D3	FORCE MAIN PRESSURE	40 PSI	2114
19:30:52	362D3	FORCE MAIN PRESSURE	44 PSI	2245
19:35:16	362D3	FORCE MAIN PRESSURE	15 PSI	1322
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19:54:22	362D3	FORCE MAIN PRESSURE	28 PSI	1733
19:59:42	362D3	FORCE MAIN PRESSURE	34 PSI	1925
20:04:52	362D3	FORCE MAIN PRESSURE	16 PSI	1351
20:15:15	362D3	FORCE MAIN PRESSURE	44 PSI	2254
20:20:36	362D3	FORCE MAIN PRESSURE	29 PSI	1785
20:25:37	362D3	FORCE MAIN PRESSURE	17 PSI	1361
20:30:25	362D3	FORCE MAIN PRESSURE	29 PSI	1755
20:45:44	362D3	FORCE MAIN PRESSURE	18 PSI	1414
20:50:44	362D3	FORCE MAIN PRESSURE	21 PSI	1493
20:55:52	362D3	FORCE MAIN PRESSURE	34 PSI	1938
21:00:48	362D3	FORCE MAIN PRESSURE	21 PSI	1497
21:05:43	362D3	FORCE MAIN PRESSURE	16 PSI	1338
21:15:37	362D3	FORCE MAIN PRESSURE	41 PSI	2169
21:20:16	362D3	FORCE MAIN PRESSURE	29 PSI	1768
21:25:13	362D3	FORCE MAIN PRESSURE	16 PSI	1355
21:30:35	362D3	FORCE MAIN PRESSURE	28 PSI	1738
21:35:21	362D3	FORCE MAIN PRESSURE	26 PSI	1659
21:40:11	362D3	FORCE MAIN PRESSURE	17 PSI	1381
21:50:30	362D3	FORCE MAIN PRESSURE	23 PSI	1587
21:55:11	362D3	FORCE MAIN PRESSURE	34 PSI	1918
22:11:24	362D3	FORCE MAIN PRESSURE	16 PSI	1339
22:22:21	362D3	FORCE MAIN PRESSURE	44 PSI	2259

22:27:34	362D3	FORCE MAIN PRESSURE	23 PSI	1582
22:32:21	362D3	FORCE MAIN PRESSURE	16 PSI	1335
22:42:32	362D3	FORCE MAIN PRESSURE	28 PSI	1747
22:58:05	362D3	FORCE MAIN PRESSURE	8 PSI	1094
23:02:54	362D3	FORCE MAIN PRESSURE	16 PSI	1340
23:17:11	362D3	FORCE MAIN PRESSURE	34 PSI	1922
23:26:20	362D3	FORCE MAIN PRESSURE	22 PSI	1537
23:31:24	362D3	FORCE MAIN PRESSURE	19 PSI	1440
23:36:18	362D3	FORCE MAIN PRESSURE	42 PSI	2190
23:40:48	362D3	FORCE MAIN PRESSURE	17 PSI	1391
23:59:48	362D3	FORCE MAIN PRESSURE	22 PSI	1546
End of Report				

Detail Report

Detail Report On 362D1

From 00:00 01/30/09	**To** 24:00 01/30/09	**Time Filter** 00:00 - 24:00

January 30, 2009

Time	Address	Name	Status	Raw
00:00:00	362D1	FLOW	1919 GPM	1604
00:02:39	362D1	FLOW	1875 GPM	1586
00:07:09	362D1	FLOW	544 GPM	1041
00:11:37	362D1	FLOW	29 GPM	830
00:25:06	362D1	FLOW	1924 GPM	1606
00:29:07	362D1	FLOW	1282 GPM	1343
00:33:25	362D1	FLOW	29 GPM	830
00:53:53	362D1	FLOW	2624 GPM	1893
00:57:42	362D1	FLOW	1311 GPM	1355
01:02:06	362D1	FLOW	29 GPM	830
01:43:42	362D1	FLOW	669 GPM	1092
01:48:14	362D1	FLOW	1894 GPM	1594
01:52:32	362D1	FLOW	1042 GPM	1245
01:56:54	362D1	FLOW	29 GPM	830
02:13:50	362D1	FLOW	850 GPM	1166
02:18:04	362D1	FLOW	2341 GPM	1777
02:21:56	362D1	FLOW	1050 GPM	1248
02:25:51	362D1	FLOW	29 GPM	830
03:30:00	362D1	FLOW	146 GPM	878
03:34:03	362D1	FLOW	2834 GPM	1979
03:37:56	362D1	FLOW	29 GPM	830
04:26:36	362D1	FLOW	264 GPM	926
04:30:22	362D1	FLOW	1907 GPM	1599
04:37:53	362D1	FLOW	525 GPM	1033
04:41:44	362D1	FLOW	29 GPM	830

05:40:52	362D1	FLOW	1543 GPM	1450
05:45:02	362D1	FLOW	2302 GPM	1761
05:49:24	362D1	FLOW	2344 GPM	1778
05:53:30	362D1	FLOW	466 GPM	1009
05:58:07	362D1	FLOW	29 GPM	830
06:15:49	362D1	FLOW	2798 GPM	1964
06:20:06	362D1	FLOW	867 GPM	1173
06:25:01	362D1	FLOW	29 GPM	830
06:34:14	362D1	FLOW	881 GPM	1179
06:43:21	362D1	FLOW	1890 GPM	1592
07:06:43	362D1	FLOW	1855 GPM	1578
07:11:19	362D1	FLOW	1016 GPM	1234
07:16:49	362D1	FLOW	29 GPM	830
07:21:49	362D1	FLOW	1499 GPM	1432
07:29:22	362D1	FLOW	2317 GPM	1767
07:44:07	362D1	FLOW	2280 GPM	1752
07:48:35	362D1	FLOW	1943 GPM	1614
07:53:13	362D1	FLOW	29 GPM	830
07:58:10	362D1	FLOW	1995 GPM	1635
08:03:15	362D1	FLOW	2966 GPM	2033
08:08:33	362D1	FLOW	1587 GPM	1468
08:13:08	362D1	FLOW	312 GPM	946
08:18:24	362D1	FLOW	1929 GPM	1608
08:35:19	362D1	FLOW	1894 GPM	1594
09:20:39	362D1	FLOW	278 GPM	932
09:25:39	362D1	FLOW	525 GPM	1033
09:30:22	362D1	FLOW	3164 GPM	2114
09:35:04	362D1	FLOW	3454 GPM	2233
09:39:52	362D1	FLOW	649 GPM	1084
09:44:49	362D1	FLOW	29 GPM	830
09:49:43	362D1	FLOW	410 GPM	986
09:54:40	362D1	FLOW	2759 GPM	1948

09:59:49	362D1	FLOW	3008 GPM	2050
10:04:14	362D1	FLOW	2043 GPM	1655
10:09:19	362D1	FLOW	29 GPM	830
10:14:24	362D1	FLOW	1052 GPM	1249
10:18:54	362D1	FLOW	2998 GPM	2046
10:23:46	362D1	FLOW	2939 GPM	2022
10:28:24	362D1	FLOW	872 GPM	1175
10:33:42	362D1	FLOW	413 GPM	987
10:38:36	362D1	FLOW	1929 GPM	1608
10:43:10	362D1	FLOW	1885 GPM	1590
10:57:23	362D1	FLOW	1916 GPM	1603
11:06:18	362D1	FLOW	1470 GPM	1420
11:10:52	362D1	FLOW	29 GPM	830
11:15:43	362D1	FLOW	1301 GPM	1351
11:20:10	362D1	FLOW	2322 GPM	1769
11:29:25	362D1	FLOW	1890 GPM	1592
11:33:34	362D1	FLOW	29 GPM	830
11:38:26	362D1	FLOW	259 GPM	924
11:43:11	362D1	FLOW	3857 GPM	2398
11:47:36	362D1	FLOW	2951 GPM	2027
11:52:17	362D1	FLOW	2768 GPM	1952
11:57:15	362D1	FLOW	29 GPM	830
12:01:46	362D1	FLOW	1789 GPM	1551
12:06:11	362D1	FLOW	1892 GPM	1593
12:14:52	362D1	FLOW	227 GPM	911
12:19:02	362D1	FLOW	29 GPM	830
12:23:26	362D1	FLOW	937 GPM	1202
12:28:11	362D1	FLOW	2327 GPM	1771
12:37:53	362D1	FLOW	1174 GPM	1299
12:43:05	362D1	FLOW	29 GPM	830
12:47:42	362D1	FLOW	1370 GPM	1379
12:52:33	362D1	FLOW	2734 GPM	1938

12:56:52	362D1	FLOW	29 GPM	830
13:01:28	362D1	FLOW	139 GPM	875
13:06:14	362D1	FLOW	1894 GPM	1594
13:10:49	362D1	FLOW	1943 GPM	1614
13:19:40	362D1	FLOW	1894 GPM	1594
13:24:04	362D1	FLOW	483 GPM	1016
13:28:18	362D1	FLOW	29 GPM	830
13:41:51	362D1	FLOW	1562 GPM	1458
13:46:09	362D1	FLOW	3181 GPM	2121
13:51:14	362D1	FLOW	3083 GPM	2081
13:55:23	362D1	FLOW	29 GPM	830
14:00:21	362D1	FLOW	400 GPM	982
14:05:17	362D1	FLOW	1938 GPM	1612
14:14:39	362D1	FLOW	1899 GPM	1596
14:19:00	362D1	FLOW	1470 GPM	1420
14:23:37	362D1	FLOW	29 GPM	830
14:33:00	362D1	FLOW	1736 GPM	1529
14:37:46	362D1	FLOW	2344 GPM	1778
14:42:09	362D1	FLOW	1226 GPM	1320
14:47:34	362D1	FLOW	29 GPM	830
14:52:51	362D1	FLOW	2978 GPM	2038
14:57:04	362D1	FLOW	1169 GPM	1297
15:01:19	362D1	FLOW	29 GPM	830
15:15:30	362D1	FLOW	1850 GPM	1576
15:20:08	362D1	FLOW	1924 GPM	1606
15:24:30	362D1	FLOW	1892 GPM	1593
15:29:13	362D1	FLOW	1926 GPM	1607
15:33:56	362D1	FLOW	1841 GPM	1572
15:38:41	362D1	FLOW	29 GPM	830
15:47:49	362D1	FLOW	1018 GPM	1235
15:52:33	362D1	FLOW	2339 GPM	1776
15:56:58	362D1	FLOW	29 GPM	830

16:04:13	362D1	FLOW	2991 GPM	2043
16:08:19	362D1	FLOW	2844 GPM	1983
16:12:22	362D1	FLOW	640 GPM	1080
16:17:29	362D1	FLOW	29 GPM	830
16:22:57	362D1	FLOW	749 GPM	1125
16:27:47	362D1	FLOW	1948 GPM	1616
16:32:15	362D1	FLOW	476 GPM	1013
16:36:37	362D1	FLOW	29 GPM	830
16:41:18	362D1	FLOW	1760 GPM	1539
16:45:51	362D1	FLOW	2358 GPM	1784
16:50:30	362D1	FLOW	2207 GPM	1722
16:54:53	362D1	FLOW	51 GPM	839
17:09:23	362D1	FLOW	1296 GPM	1349
17:14:24	362D1	FLOW	2971 GPM	2035
17:18:55	362D1	FLOW	500 GPM	1023
17:23:38	362D1	FLOW	618 GPM	1071
17:28:34	362D1	FLOW	1931 GPM	1609
17:38:18	362D1	FLOW	889 GPM	1182
17:42:32	362D1	FLOW	29 GPM	830
17:52:06	362D1	FLOW	1894 GPM	1594
17:56:33	362D1	FLOW	2314 GPM	1766
18:01:15	362D1	FLOW	2246 GPM	1738
18:05:52	362D1	FLOW	29 GPM	830
18:10:36	362D1	FLOW	1523 GPM	1442
18:19:23	362D1	FLOW	29 GPM	830
18:24:26	362D1	FLOW	1118 GPM	1276
18:29:23	362D1	FLOW	1938 GPM	1612
18:38:48	362D1	FLOW	1907 GPM	1599
18:48:18	362D1	FLOW	532 GPM	1036
18:52:42	362D1	FLOW	27 GPM	829
18:56:58	362D1	FLOW	1553 GPM	1454
19:01:26	362D1	FLOW	2346 GPM	1779

19:06:11	362D1	FLOW	2380 GPM	1793
19:10:43	362D1	FLOW	2322 GPM	1769
19:15:44	362D1	FLOW	566 GPM	1050
19:21:40	362D1	FLOW	29 GPM	830
19:26:32	362D1	FLOW	2109 GPM	1682
19:30:52	362D1	FLOW	2956 GPM	2029
19:35:16	362D1	FLOW	1057 GPM	1251
19:40:06	362D1	FLOW	1870 GPM	1584
19:45:01	362D1	FLOW	1914 GPM	1602
19:49:22	362D1	FLOW	249 GPM	920
19:54:22	362D1	FLOW	1206 GPM	1312
19:59:42	362D1	FLOW	2346 GPM	1779
20:04:52	362D1	FLOW	366 GPM	968
20:10:15	362D1	FLOW	27 GPM	829
20:15:15	362D1	FLOW	2998 GPM	2046
20:20:36	362D1	FLOW	1850 GPM	1576
20:25:37	362D1	FLOW	27 GPM	829
20:30:25	362D1	FLOW	1912 GPM	1601
20:45:44	362D1	FLOW	706 GPM	1107
20:50:44	362D1	FLOW	254 GPM	922
20:55:52	362D1	FLOW	2380 GPM	1793
21:00:48	362D1	FLOW	1096 GPM	1267
21:05:43	362D1	FLOW	27 GPM	829
21:15:37	362D1	FLOW	2322 GPM	1769
21:20:16	362D1	FLOW	1848 GPM	1575
21:25:13	362D1	FLOW	27 GPM	829
21:30:35	362D1	FLOW	1926 GPM	1607
21:35:21	362D1	FLOW	1841 GPM	1572
21:40:11	362D1	FLOW	27 GPM	829
21:50:30	362D1	FLOW	647 GPM	1083
21:55:11	362D1	FLOW	2353 GPM	1782
22:00:01	362D1	FLOW	2317 GPM	1767

22:11:24	362D1	FLOW	27 GPM	829
22:22:21	362D1	FLOW	2976 GPM	2037
22:27:34	362D1	FLOW	1340 GPM	1367
22:32:21	362D1	FLOW	27 GPM	829
22:42:32	362D1	FLOW	1672 GPM	1503
22:47:16	362D1	FLOW	1929 GPM	1608
22:58:05	362D1	FLOW	1060 GPM	1252
23:02:54	362D1	FLOW	29 GPM	830
23:17:11	362D1	FLOW	2031 GPM	1650
23:21:36	362D1	FLOW	2344 GPM	1778
23:26:20	362D1	FLOW	1111 GPM	1273
23:31:24	362D1	FLOW	66 GPM	845
23:36:18	362D1	FLOW	2944 GPM	2024
23:40:48	362D1	FLOW	27 GPM	829
23:59:48	362D1	FLOW	669 GPM	1092
End of Report				