

APPENDIX B: PUMP STATION SYSTEM DATA

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Table B-1. HRSD Pumping Facilities

PS/PRS Number	Name	Address	Pumping Station	PRS	Firm Capacity (gpm)
101	Arctic Avenue	2814 Arctic Ave, Virginia Beach	X		7,000
102	Ashland Circle	1402 Ashland Circle, Norfolk	X		450
103	Bainbridge Blvd	801 Bainbridge Blvd, Norfolk	X		1,200
104	Cedar Lane	5915 Cedar Lane, Portsmouth	X		7,400
105	Chesapeake Blvd	5734 Chesapeake Blvd, Norfolk	X		4,000
106	City Park	Ft of La Vallette Avenue, Norfolk	X		960
107	Colley Avenue	715 Fairfax Avenue, Norfolk	X		8,100
108	Dovercourt Road	948 Dovercourt Road, Norfolk	X		5,000
109	Dozier's Corner	1121 Keats Street, Norfolk	X		625
110	Ferebee Avenue	2812 Bainbridge Blvd, Chesapeake	X		600
111	Granby Street	4244 Granby Street, Norfolk	X		600
112	Independence Blvd PRS	4562 Southern Blvd, Virginia Beach		X	14000
113	Luxembourg Avenue	3030 Luxembourg Avenue, Norfolk	X		6,800
114	Monroe Place	5808 Monroe Place, Norfolk	X		1,200
115	Newtown Road	115 Newtown Road, Norfolk	X		10,500
116	Norchester Street	935 Norchester Street, Norfolk	X		3,500
117	North Shore Road	1510 1/2 North Shore Road, Norfolk	X		800
118	Norview Avenue	869 Norview Avenue, Norfolk	X		350
119	Park Avenue	503 Park Avenue, Chesapeake	X		3,600
120	Pine Tree PRS	2924 Virginia Beach Blvd, Virginia Beach		X	6,800
121	Plume Street	236 E. Plume Street, Norfolk	X		8,680
122	Powhatan Avenue	1548 Buckingham Avenue, Norfolk	X		800
123	Quail Avenue	800 Quail Avenue, Chesapeake	X		2,300
124	Richmond Crescent	128 Richmond Crescent, Norfolk	X		600
125	Seay Avenue	3541 Seay Avenue, Norfolk	X		1,000
127	State Street	351 Emmett Place, Norfolk	X		8,400
128	Steamboat Creek	1900 E. Indian River Road, Chesapeake	X		1,700
129	Taussig Blvd	2017 Taussig Blvd, Norfolk	X		10,390
130	Virginia Beach Blvd	3514 E. Virginia Beach Blvd, Norfolk	X		3,000
131	Washington Plant	1728 Great Bridge Blvd, Chesapeake	X		6,500
132	Willoughby Avenue	1912 Willoughby Avenue, Norfolk	X		1,000
133	Providence Road PRS	5729 Old Providence Road, Virginia Beach		X	21,000
134	Pughsville Road PRS	4725 Shoulders Hill Road, Suffolk		X	11,200
135	Suffolk	1136 Sanders Drive, Suffolk	X		4,700
137	Bowers Hill PRS	3588 South Military Hwy, Chesapeake		X	9,800
138	Deep Creek PRS	1221 Shell Road, Chesapeake		X	9,800
139	Quail Avenue PRS	822 Quail Avenue, Chesapeake		X	12,000
140	Atlantic Avenue PRS	1085 Old Dam Neck Road, Virginia Beach		X	50,100
141	Hanover Avenue	900 Hanover Avenue, Norfolk	X		300

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PS/PRS Number	Name	Address	Pumping Station	PRS	Firm Capacity (gpm)
142	Jamestown Crescent	858 Jamestown Crescent, Norfolk	X		300
143	Shipp's Corner PRS	1423 London Bridge Blvd, Virginia Beach		X	28,560
144	Elmhurst Lane	600 Elmhurst Lane, Portsmouth	X		6,000
145	Rodman Avenue	2412 Rodman Avenue, Portsmouth	X		6,600
146	Camden Avenue	2203 Camden Ave., Portsmouth	X		8,400
147	Chesterfield Blvd	2731 Chesterfield Blvd, Norfolk	X		600
148	Ingleside Road	600 Ingleside Road, Norfolk	X		600
151	Kempsville Road PRS	4765 Ferrell Parkway, Virginia Beach		X	20,000
152	Terminal Blvd PRS	7808 Newport Avenue, Norfolk		X	13,200
153	Laskin Road PRS	590 Fremac Avenue, Virginia Beach		X	16,666
154	Route 337 PRS	2472 Gum Road, Chesapeake		X	11,334
201	25th Street	11 25th Street, Newport News	X		1,500
202	33rd Street	85 33rd Street, Newport News	X		3,000
203	Bay Shore	720 Bay Shore Lane, Hampton	X		3,975
204	Bloxoms Corner	5 Beach Rd, Hampton	X		520
205	Big Bethel PRS	1431 Big Bethel Rd, Hampton		X	12,240
206	Bridge St	4701 Victoria Blvd, Hampton	X		10,900
207	Center Ave	315 Center Ave, Newport News	X		4,900
208	Claremont	1210 Chesapeake Ave, Hampton	X		UNDER CONSTRUCTION
209	Copeland Park	4401 City Line Rd, Newport News	X		5,400
210	Ferguson Park	227 75th Street, Newport News	X		450
211	Hampton U	54 Shore Drive, Hampton	X		800
212	Hilton School	223 River Rd, Newport News	X		350
213	Jefferson Ave	BHTP, Newport News	X		1,780
214	Kingsmill	7851 Pocahontas Trl, Williamsburg	X		6,000
215	Lee Hall PRS	17388 Warwick Blvd, Newport News		X	8,000
216	Lucas Creek PS/PRS	750 Lucas Creek Road, Newport News	X	X*	13,700
217	Langley Circle	4 Thornrose Ave, Hampton	X		9,000
218	Morrison	1228 Gatewood Rd, Newport News	X		1,500
219	Newmarket	6000 Orcutt Ave, Newport News	X		3,200
220	Normandy Lane	116 Normandy Lane, Newport News	X		600
221	Patrick Henry	215 G Avenue, Newport News	X		3,700
223	Washington Street	217 Washington St, Hampton	X		3,000
224	Woodland Road	11 McElhenny Lane, Hampton	X		3,600
225	Willard Ave	219 National Ave, Hampton	X		5,750
226	Williamsburg	540 South England Street, Williamsburg	X		5,600
227	Fort Eustis	1619 Taylor Ave, Newport News	X		3,522
229	Colonial Williamsburg	1000 State Route 132, York Co	X		4,500
230	Rolling Hills	414 Rolling Hills Dr, York Co	X		1,400

Table B-1. HRSD Pumping Facilities					
PS/PRS Number	Name	Address	Pumping Station	PRS	Firm Capacity (gpm)
231	Ford's Colony	430 Hempstead Road, Williamsburg	X		2,400
232	Greensprings	3900 John Tyler Mem. Hwy, Williamsburg	X		2,500
233	Lodge Road PS	York County	X		-

* Not currently functioning as PRS

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Table B-2. Summary of Pump Station-Related SSOs						
Pump Station Number	Pump Station Name	Total SSO Occurrences Between 2002 and 2008	SSORS Report Number	Date of SSO	Volume Not Recovered (gallons)	Reason for SSO
NORTH SHORE						
201	25th Street	1	2009-T-101749	14-Dec-08	1100	Blockage in line caused manhole beside pump station to overflow. Pumps at the station were operating normally.
203	Bay Shore	1	2004-T-0538	18-Sep-03	0	Hurricane Isabel. Widespread flooding and power outages.
204	Bloxoms Corner	1	2004-T-0539	18-Sep-03	0	Hurricane Isabel. PS lost both power feeds. Widespread flooding.
205	Big Bethel PRS	1	2005-T-100003	14-Oct-04	300	Personnel were repairing a valve at the pump station and had installed bypass pumping around the station. The coupling in the 12-inch suction hose came unhooked and caused the bypass hose to discharge into the storm drain.
206	Bridge Street	10	2003-T-1473	16-Feb-02	0	2.64" rain 2/15-2/17. High water alarm. No evidence of overflow.
			2003-T-1474	17-Feb-03	0	2.64" rain 2/15-2/17. High water alarm. No evidence of overflow.
			2004-T-0271	08-Aug-03	1900	1.52" in 90-min on 8/8. 4.89" Aug 4-8
			2004-T-0536	18-Sep-03	0	Hurricane Isabel. Widespread flooding.
			2005-T-0365	14-Aug-04	280340	TS Charley. 6.17" 8/12-8/16. 5.10" 8/14-8/15.
			2006-T-100347	08-Oct-05	4965	Heavy rainfall created excessive I/I. Estimated flow rate of 15 gpm discharging from tide gate.
			2006-T-100679	27-Jun-06	190400	Refer to SSOR 100678. Pump station was shut down in order to reduce flow at force main break on 3721 Victoria Blvd so that repairs could be made. PS has tidal gate which discharges overflow to river.
			2006-T-100680	28-Jun-06	2200	Mechanical problems with a by-pass pump caused the system to backup and by-pass at the Bridge St. Tide Gate for 1 hour and 50 minutes as 20 gpm.
			2007-T-100929	07-Oct-06	0	Heavy rainfall and flooding in area created excessive I/I.
2007-T-100983	22-Nov-06	0	Heavy rains and high winds from coastal storm flooded the area, creating excessive I/I.			
207	Center Avenue	21	2003-T-1943	07-Apr-03	8250	2.29" of rain on 4/7. 3 manholes overflowed.

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Pump Station Number	Pump Station Name	Total SSO Occurrences Between 2002 and 2008	SSORS Report Number	Date of SSO	Volume Not Recovered (gallons)	Reason for SSO
			2003-T-1963	09-Apr-03	30470	2.29" of rain on 4/7
			2003-T-2016	10-Apr-03	4420	2.29" of rain on 4/7 & 1.99" of rain on 4/9
			2004-T-0247	07-Aug-03	2200	2.07" of rain in 5 hrs on 8/7 (0.96" in 30-min); 5.01" Aug 5-7
			2004-T-0270	08-Aug-03	2790	6.29" Aug 5-8 (1.03" in 1-hr period before event)
			2004-T-0287	11-Aug-03	830	7.53" Aug 2-11; 0.72" in 90-min 8/11
			2004-T-0487	12-Sep-03	1365	2.45" of rain on 9/12.
			2004-T-0537	18-Sep-03	0	Hurricane Isabel. Widespread flooding.
			2004-T-0939	29-Oct-03	560	Upstream Gravity Line (NG-104). 2.90" of rain in 16-hr period prior to event.
			2004-T-1228	14-Dec-03	20250	Upstream Gravity Line (NG-104). 1.63" of rain on 12/14, 1.34" in 7 hours.
			2005-T-0034	07-Jul-04	5700	Upstream Gravity Line (NG-104). 1.82" on 7/7. 1.52" in 30 minutes.
			2005-T-0366	14-Aug-04	233675	Upstream Gravity Line (NG-104). TS Charley. 7.46" 8/12-8/16. 6.57" 8/14-8/15.
			2006-T-100349	08-Oct-05	5100	Upstream Gravity Line (NG-104). Heavy rainfall (6.05 inches recorded at nearest rain gauge) created excessive I/I. Manhole overflowed at an estimated rate of 50 gpm with 70 % (3570 gal) stormwater and 30 % (1530 gal) wastewater.
			2006-T-100348	08-Oct-05	8670	Heavy rainfall and localized flooding created excessive I/I. Manhole behind pump station overflowed at an estimated rate of 85 gpm. 70% (6069 gal) was stormwater and 30% (2601 gal) was wastewater.
			2006-T-100647	14-Jun-06	850	Area received several inches of rain from remnants of TS Alberto which created excessive I/I. Manhole located behind pump station overflowed due to system being overloaded.
			2006-T-100676	23-Jun-06	3600	Torrential rains created excessive I/I causing manhole at pump station to overflow.
			2007-T-100780	01-Sep-06	14235	Heavy rainfall from TS Ernesto created excessive I/I. Weather gauges located at HRSD pump stations recorded daily rainfall totals ranging from 7 to 9.8 inches with majority occurring within 8-hour period.

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Pump Station Number	Pump Station Name	Total SSO Occurrences Between 2002 and 2008	SSORS Report Number	Date of SSO	Volume Not Recovered (gallons)	Reason for SSO
			2007-T-100930	07-Oct-06	59800	Heavy rainfall and flooding created excessive I/I. Typical dry weather flow at PS is 400 gpm. 2400 gpm flow rate was recorded during storm.
			2007-T-100964	12-Nov-06	16840	Area received large amount of rainfall which created excessive I/I.
			2007-T-100984	22-Nov-06	14370	Heavy rainfall and high winds from coastal storm created excessive I/I.
			2007-T-101068	25-Dec-06	2700	Pump station overflowed intermittently due to heavy rain and excessive I & I. Nearby rain gauge measured 1.26" of rain in 12 hour period.
208	Claremont Avenue	1	2006-T-100346	08-Oct-05	0	Heavy rainfall (6.05 inches recorded at nearest rain gauge) created excessive I/I. High water alarm at pump station alerted staff. May have been a spill with a 50/50 mix of stormwater and wastewater.
210	Ferguson Park	2	2004-T-0668	23-Sep-03	1000	Lost permanent power during heavy wind. Load did not transfer.
			2008-T-101439	03-Mar-08	250	City line had blockage. When the blockage was cleared, flow surged to pump station. The lead pump was not operating and the lag pump was operating but not pumping. This caused overflows at the manhole at the pump station site and the Leeward Marina restrooms.
211	Hampton University	1	2004-T-0667	23-Sep-03	3500	Possible line or valve failure. Section isolated. NS Ops to excavate.
212	Hilton School	2	2005-T-0362	14-Aug-04	930	TS Charley. 3.59" 8/14. 8.49" 8/1-8/16. Area flooding.
			2007-T-101084	05-Jan-07	120	Cast iron force main failed due to ground settling. Additional 30 gallons lost during pump and haul operation.
214	Kingsmill	5	2003-T-0725	15-Oct-02	1800	Corroded emerg. pump connection. Spill from brewery's overflow pond.
			2003-T-2299	27-May-03	3000	Crew cut unmarked power line to Dominion Power Transformer
			2006-T-100674	23-Jun-06	21000	Heavy rains in area created excessive I/I. Pump station overflows into retention pond with sluice gate that enters tunnel under road and goes to ditch.
			2007-T-100706	01-Aug-06	2100	Pump at station burned up and caused power failure at station. Overflow from station entered stormwater pond where most of it was contained.
			2007-T-100932	07-Oct-06	0	Heavy rainfall and flooding created excessive I/I. Typical PS flow rate is 2500 gpm on dry day. Flow rate

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Pump Station Number	Pump Station Name	Total SSO Occurrences Between 2002 and 2008	SSORS Report Number	Date of SSO	Volume Not Recovered (gallons)	Reason for SSO
						increased to 6800 gpm during the storm.
216	Lucas Creek PRS	1	2007-T-101196	07-May-07	700	Bubbler system at station malfunctioned causing wet well level to increase and overflow. Neighbor noticed problem and contacted HRSD.
217	Langley Circle	1	2005-T-0364	14-Aug-04	174315	TS Charley. 7.72" 8/12-8/16. 7.00" 8/14-8/15.
219	Newmarket	1	2006-T-100548	16-Mar-06	150	Drain hose inside of an 8" bypass pump set up at the pump station came apart.
221	Patrick Henry	6	2004-T-1502	07-Feb-04	300	Mechanical failure - suspected debris in bubbler control line.
			2005-T-100207	25-Feb-05	50	Bubbler system in pump station became clogged with sand. Pumps failed to operate when wet well level rose and minor spill occurred.
			2005-T-100290	18-Jun-05	50	Control panel in pump station failed which caused wet well level to rise.
			2006-T-100621	02-Jun-06	0	Metal coupling separated from rubber flex hose on 8" temporary by-pass pumping system discharging sewage to storm drain ditch.
			2006-T-100677	23-Jun-06	100	Torrential rainfall created excessive I/I causing manhole beside pump station to overflow into ditch.
			2007-T-100784	01-Sep-06	0	Heavy rainfall from TS Ernesto created excessive I/I and flooding in the area. Weather gauges located at HRSD pump stations recorded daily rainfall totals ranging from 7 to 9.8 inches with majority occurring during 8-hour period.
226	Williamsburg	6	2005-T-0497	30-Aug-04	2600	WBTP generator failed. PCV controller locked up.
			2005-T-100087	10-Dec-04	60	Lightning struck the control valve in the force main leading to the plant. The valve froze in position at 40% open. The partially closed valve and the excessive I/I from the thunderstorm caused flow to back up and overflow the pump station wet well.
			2006-T-100513	09-Feb-06	4500	Failure of force main at the pump station. Leaking at approximately 25 gpm.
			2007-T-100785	01-Sep-06	4630	Heavy rainfall from TS Ernesto created excessive I/I. Weather gauge located at Williamsburg PS recorded 8.93 inches of rain for the day with majority occurring from 0500 to 1300.

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Pump Station Number	Pump Station Name	Total SSO Occurrences Between 2002 and 2008	SSORS Report Number	Date of SSO	Volume Not Recovered (gallons)	Reason for SSO
			2007-T-101176	16-Apr-07	0	PLC failure stopped the working pump and did not start the lag pump. Small hole leaked sewerage onto floor and out door. Spill stopped at 1139 AM. Duration of problem was 5 minutes at rate of 5 gpm.
			2008-T-101585	19-Jun-08	50	There was a crack in a fitting for the bubbler line at the pump station which caused air to escape the bubbler system which monitors the wet well level. The bubbler failure gave a false reading to the controller so that it did not signal the pump to speed up as the wet well level rose. The wet well overflowed briefly.
231	Fords Colony	1	2008-T-101384	31-Dec-07	0	Station checker found 8-inch emergency pipe had blown off of its connection at pump station. An underground coupling failed which allowed the connection to come apart. The duration of the failure is unknown.
232	Greensprings	2	2007-T-100910	06-Oct-06	70	Hose attached to drain valve on Godwin pump set up at station blew apart. Wastewater spilled onto ground for approximately seven minutes.
			2008-T-101345	29-Nov-07	1025	Crew set up bypass hose around station to conduct maintenance. The hose blew apart when 12" pump was started. Replaced hose but another section blew apart when re-tested.
SOUTH SHORE						
101	Arctic Avenue	1	2005-T-0247	03-Aug-04	675	TS Alex. 2.66" on 8/3. 1.32" in 90 minutes. 5th wettest July.
102	Ashland Circle	2	2003-T-1312	24-Jan-03	30	Operator error. Int. Tech left valve open briefly on emerg pump.
			2004-T-0530	18-Sep-03	75600	Hurricane Isabel. Power outage. Widespread flooding.
104	Cedar Lane	2	2005-T-0518	01-Sep-04	60	Sluice gate broke during PM.
			2005-T-100286	14-Jun-05	50	Bypass pumps had been set up in order to conduct wet well rehab at the station. The joint on the discharge piping was leaking. Pipe fittings broke loose while staff was attempting to stop leak.
105	Chesapeake Blvd	12	2003-T-1470	16-Feb-03	0	2.55" rain 2/15-2/17. Overflow qty unknown due to tidal flooding.
			2003-T-1472	17-Feb-03	375	2.55" rain 2/15-2/17. Presidents Day Storm.
			2003-T-2043	11-Apr-03	124750	4.88" of rain at Norfolk Airport April 7-11
			2004-T-1226	14-Dec-03	17830	1.73" of rainfall on 12/14. 1.49 inches

Table B-2. Summary of Pump Station-Related SSOs

Pump Station Number	Pump Station Name	Total SSO Occurrences Between 2002 and 2008	SSORS Report Number	Date of SSO	Volume Not Recovered (gallons)	Reason for SSO
						in 8.5 hours.
			2005-T-0202	02-Aug-04	10865	TS Alex. 3.21" in 2 hours. Following 5th wettest July.
			2005-T-0213	03-Aug-04	167460	TS Alex. >4" on 8/2. 2.85" on 8/3. 1.93" in 90 minutes 8/3.
			2005-T-0360	14-Aug-04	662700	TS Charley. 5.16" 8/12-8/16. 9.77" 8/1-8/16.
			2005-T-0605	15-Sep-04	4020	Excessive I/I. 1.79" of rain for one hour prior to event.
			2006-T-100661	14-Jun-06	0	Pump station overflowed due to excessive I/I. Area received several inches of rain due to remnants of TS Alberto.
			2007-T-100794	01-Sep-06	0	Heavy rainfall from TS Ernesto created excessive I/I & power outages in the area. Station experienced control problem with only two of three pumps operating in automatic position. Norfolk received record rainfall for day.
			2007-T-100989	22-Nov-06	3650	Heavy rains and high wind from coastal storm caused flooding and excessive I/I. Pump station overflowed at tide gate from 12:46 pm to 1:03 pm and then from 1:23 to 2:19 pm at estimated rate of 50 gpm.
			2007-T-101146	27-Feb-07	50	Contractor set up bypass piping around station. One of joints was leaking so it was opened to replace gasket causing wastewater to spill over berm.
106	City Park	1	2004-T-0533	18-Sep-03	0	Hurricane Isabel. Power outage. Tidal flooding.
109	Dozier's Corner	3	2004-T-0531	18-Sep-03	15000	Hurricane Isabel. Widespread flooding and power outages.
			2006-T-100660	14-Jun-06	0	Pump station overflowed due to excessive I/I. Area received several inches of rain due to remnants of TS Alberto.
			2007-T-100798	01-Sep-06	0	Heavy rainfall from TS Ernesto created excessive I/I and flooding in area. Rainfall gauges in city reported total rainfall amounts from 6.8 to 7.2 inches.
113	Luxembourg Avenue	2	2005-T-0215	03-Aug-04	0	TS Alex. 4.30" 8/1-8/3. Following 5th wettest July.
			2007-T-100799	01-Sep-06	0	Heavy rainfall from TS Ernesto created excessive I/I and power outages in area. Station had electrical control problem which resulted in only 2 of 3 pumps operating in automatic position. Station gauge recorded 8.27" rainfall for day.

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116	Norchester Street	3	2005-T-0358	14-Aug-04	0	TS Charley. No overflow when on site. 3.36" 8/14. 9.77" 8/1-8/16.
			2007-T-101179	19-Apr-07	40000	20 inch cast iron force main on discharge side of PS had horizontal crack. Leaking started at estimated rate of 400 gpm for 75 minutes, decreased to 200 ppm for 35 minutes, then increased to 300 gpm for 110 minutes.
			2007-T-101183	25-Apr-07	195	Gasket failure on 12" bypass pump discharge piping at the station. Lasted for two minutes.
119	Park Avenue	1	2005-T-0214	03-Aug-04	10300	TS Alex. >4" on 8/2. 2.85" on 8/3. 1.93" in 90 minutes 8/3.
123	Quail Avenue	1	2007-T-100801	01-Sep-06	0	Heavy rainfall from TS Ernesto created excessive I/I and flooding in area. Rain gauges in city recorded rainfall totals from 6.8 to 7.2 inches.
124	Richmond Crescent	4	2004-T-0534	18-Sep-03	0	Hurricane Isabel. Power outage. Tidal flooding in generator fuel tank.
			2004-T-0704	25-Sep-03	100	Leaking joint on PS site. Tightened bolts. Vaccon picked up spill.
			2005-T-0359	14-Aug-04	0	TS Charley. 3.36" 8/14. 9.77" 8/1-8/16. Area flooding.
			2007-T-100804	01-Sep-06	0	Norfolk received record amount of rainfall from TS Ernesto which created excessive I/I and flooded the area. Rainfall gauges throughout the city recorded rainfall totals from 7.3 to 8.9 inches for the day.
125	Seay Avenue	3	2003-T-0670	08-Oct-02	250	Debris or leak in bubbler control line. Overflow at cleanout.
			2005-T-0201	02-Aug-04	14300	TS Alex. 3.21" in 2 hours. Following 5th wettest July.
			2005-T-0356	14-Aug-04	150	TS Charley. Spill occurred during install of 6" portable pump.
127	State Street	4	2004-T-0529	19-Sep-03	450	Mechanical failure. Broken air line in bubbler system.
			2005-T-100227	14-Mar-05	22	Upstream Gravity Line (SG-096). Bubbler system on State Street Pump Station failed. The wet well gauge registered zero inches so the pumps did not come on when station wet well level rose. The system backed up and a nearby manhole overflowed.
			2006-T-100659	14-Jun-06	546	Upstream Gravity Line (SG-202). Manhole near pump station overflowed at estimated rate of 3 gpm due to excessive I/I. Area received several inches of rain due to remnants of TS Alberto. Manhole located at Pearl and Ligon Street.

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Pump Station Number	Pump Station Name	Total SSO Occurrences Between 2002 and 2008	SSORS Report Number	Date of SSO	Volume Not Recovered (gallons)	Reason for SSO
			2007-T-100802	01-Sep-06	0	Norfolk received record amount of rainfall from TS Ernesto which created excessive I/I and flooded area. Overflow discharged from manhole on Pearl and Ligon Streets. Rainfall totals from 7.3 to 8.9" recorded for day.
128	Steamboat Creek	1	2007-T-100803	01-Sep-06	0	Norfolk received record amount of rainfall from TS Ernesto which created excessive I/I and flooded the area. Rainfall gauges throughout the city recorded rainfall totals from 7.3 to 8.9 inches for the day.
131	Washington Plant	1	2005-T-0357	14-Aug-04	0	TS Charley. 2.76" on 8/14, 2.57" in 7 hours. Area flooding.
135	Suffolk	4	2003-T-1966	08-Apr-03	34400	1.98" of rain on 4/9.
			2004-T-0535	18-Sep-03	0	Hurricane Isabel. Widespread flooding.
			2004-T-1227	14-Dec-03	0	2.27" of rainfall on 12/14. 2.06" in 9 hours.
			2007-T-100987	22-Nov-06	0	Heavy rains and high winds from coastal storm created area flooding and excessive I/I. Pump failed at pump station during storm due to control problems.
137	Bowers Hill PRS	1	2008-T-101243	14-Aug-07	6000	Contractor had installed bypass piping at station in order to do construction work inside of station. Contractor hit 2" ball valve on the bypass piping.
142	Jamestown Crescent	1	2004-T-0532	19-Sep-03	2240	Hurricane Isabel. Power outage. Widespread flooding.
144	Elmhurst Lane	1	2008-T-101270	12-Sep-07	30	Crew was conducting routine wet well cleaning when metal clamp on hose on bypass pump blew off.
147	Chesterfield Blvd	1	2007-T-100795	01-Sep-06	0	Heavy rainfall from TS Ernesto created excessive I/I and flooding in the area. Weather gauges throughout the city recorded rainfall totals ranging from 7.3 to 8.9 inches.

Table B-3. Unresolved Pump Station-Related SSOs
(Not Caused by Major Storm Events, Operator Error, Third Party Actions)

Pump Station Number	Pump Station Name	Total SSO Occurrences Between 2002 and 2008	SSORS Report Number	Date of SSO	Volume Not Recovered (gallons)	Reason for SSO
NORTH SHORE						
201	25th Street	1	2009-T-101749	14-Dec-08	1100	Blockage in line caused manhole beside pump station to overflow. Pumps at the station were operating normally.
206	Bridge Street	3	2003-T-1473	16-Feb-02	0	2.64" rain 2/15-2/17. High water alarm. No evidence of overflow.
			2003-T-1474	17-Feb-03	0	2.64" rain 2/15-2/17. High water alarm. No evidence of overflow.
			2004-T-0271	08-Aug-03	1900	1.52" in 90-min on 8/8. 4.89" Aug 4-8
207	Center Avenue	13	2003-T-1943	07-Apr-03	8250	2.29" of rain on 4/7. 3 manholes overflowed.
			2003-T-1963	09-Apr-03	30470	2.29" of rain on 4/7
			2003-T-2016	10-Apr-03	4420	2.29" of rain on 4/7 & 1.99" of rain on 4/9
			2004-T-0247	07-Aug-03	2200	2.07" of rain in 5 hrs on 8/7 (0.96" in 30-min); 5.01" Aug 5-7
			2004-T-0270	08-Aug-03	2790	6.29" Aug 5-8 (1.03" in 1-hr period before event)
			2004-T-0287	11-Aug-03	830	7.53" Aug 2-11; 0.72" in 90-min 8/11
			2004-T-0487	12-Sep-03	1365	2.45" of rain on 9/12.
			2004-T-0939	29-Oct-03	560	Upstream Gravity Line (NG-104). 2.90" of rain in 16-hr period prior to event.
			2004-T-1228	14-Dec-03	20250	Upstream Gravity Line (NG-104). 1.63" of rain on 12/14, 1.34" in 7 hours.
			2005-T-0034	07-Jul-04	5700	Upstream Gravity Line (NG-104). 1.82" on 7/7. 1.52" in 30 minutes.
210	Ferguson Park	2	2004-T-0668	23-Sep-03	1000	Lost permanent power during heavy wind. Load did not transfer.
			2008-T-101439	03-Mar-08	250	City line had blockage. When the blockage was cleared, flow surged to pump station. The lead pump was not operating and the lag pump was operating but not pumping. This caused overflows at the manhole at the pump station site and the Leeward Marina restrooms.

Table B-3. Unresolved Pump Station-Related SSOs
(Not Caused by Major Storm Events, Operator Error, Third Party Actions)

Pump Station Number	Pump Station Name	Total SSO Occurrences Between 2002 and 2008	SSORS Report Number	Date of SSO	Volume Not Recovered (gallons)	Reason for SSO
211	Hampton University	1	2004-T-0667	23-Sep-03	3500	Possible line or valve failure. Section isolated. NS Ops to excavate.
212	Hilton School	1	2007-T-101084	05-Jan-07	120	Cast iron force main failed due to ground settling. Additional 30 gallons lost during pump and haul operation.
214	Kingsmill	3	2003-T-0725	15-Oct-02	1800	Corroded emerg. pump connection. Spill from brewery's overflow pond.
			2006-T-100674	23-Jun-06	21000	Heavy rains in area created excessive I/I. Pump station overflows into retention pond with sluice gate that enters tunnel under road and goes to ditch.
			2007-T-100706	01-Aug-06	2100	Pump at station burned up and caused power failure at station. Overflow from station entered stormwater pond where most of it was contained.
216	Lucas Creek PRS	1	2007-T-101196	07-May-07	700	Bubbler system at station malfunctioned causing wet well level to increase and overflow. Neighbor noticed problem and contacted HRSD.
221	Patrick Henry	4	2004-T-1502	07-Feb-04	300	Mechanical failure - suspected debris in bubbler control line.
			2005-T-100207	25-Feb-05	50	Bubbler system in pump station became clogged with sand. Pumps failed to operate when wet well level rose and minor spill occurred.
			2005-T-100290	18-Jun-05	50	Control panel in pump station failed which caused wet well level to rise.
			2006-T-100677	23-Jun-06	100	Torrential rainfall created excessive I/I causing manhole beside pump station to overflow into ditch.
226	Williamsburg	4	2005-T-0497	30-Aug-04	2600	WBTP generator failed. PCV controller locked up.
			2006-T-100513	09-Feb-06	4500	Failure of force main at the pump station. Leaking at approximately 25 gpm.
			2007-T-101176	16-Apr-07	0	PLC failure stopped the working pump and did not start the lag pump. Small hole leaked sewerage onto floor and out door. Spill stopped at 1139 AM. Duration of problem was 5 minutes at rate of 5 gpm.

Table B-3. Unresolved Pump Station-Related SSOs
(Not Caused by Major Storm Events, Operator Error, Third Party Actions)

Pump Station Number	Pump Station Name	Total SSO Occurrences Between 2002 and 2008	SSORS Report Number	Date of SSO	Volume Not Recovered (gallons)	Reason for SSO
			2008-T-101585	19-Jun-08	50	There was a crack in a fitting for the bubbler line at the pump station which caused air to escape the bubbler system which monitors the wet well level. The bubbler failure gave a false reading to the controller so that it did not signal the pump to speed up as the wet well level rose. The wet well overflowed briefly.
231	Fords Colony	1	2008-T-101384	31-Dec-07	0	Station checker found 8-inch emergency pipe had blown off of its connection at pump station. An underground coupling failed which allowed the connection to come apart. The duration of the failure is unknown.
232	Greensprings	1	2007-T-100910	06-Oct-06	70	Hose attached to drain valve on Godwin pump set up at station blew apart. Wastewater spilled onto ground for approximately seven minutes.
SOUTH SHORE						
104	Cedar Lane	1	2005-T-0518	01-Sep-04	60	Sluice gate broke during PM.
105	Chesapeake Blvd	5	2003-T-1470	16-Feb-03	0	2.55" rain 2/15-2/17. Overflow qty unknown due to tidal flooding.
			2003-T-1472	17-Feb-03	375	2.55" rain 2/15-2/17. Presidents Day Storm.
			2003-T-2043	11-Apr-03	124750	4.88" of rain at Norfolk Airport April 7-11
			2004-T-1226	14-Dec-03	17830	1.73" of rainfall on 12/14. 1.49 inches in 8.5 hours.
			2005-T-0605	15-Sep-04	4020	Excessive I/I. 1.79" of rain for one hour prior to event.
116	Norchester Street	1	2007-T-101179	19-Apr-07	40000	20 inch cast iron force main on discharge side of PS had horizontal crack. Leaking started at estimated rate of 400 gpm for 75 minutes, decreased to 200 ppm for 35 minutes, then increased to 300 gpm for 110 minutes.
124	Richmond Crescent	1	2004-T-0704	25-Sep-03	100	Leaking joint on PS site. Tightened bolts. Vaccon picked up spill.
125	Seay Avenue	1	2003-T-0670	08-Oct-02	250	Debris or leak in bubbler control line. Overflow at cleanout.
127	State Street	2	2004-T-0529	19-Sep-03	450	Mechanical failure. Broken air line in bubbler system.
			2005-T-100227	14-Mar-05	22	Upstream Gravity Line (SG-096). Bubbler system on State Street Pump Station failed. The wet well gauge registered zero inches so the pumps did not come on when station wet well level rose. The system backed up and a nearby manhole overflowed.
135	Suffolk	2	2003-T-1966	08-Apr-03	34400	1.98" of rain on 4/9.
			2004-T-1227	14-Dec-03	0	2.27" of rainfall on 12/14. 2.06" in 9 hours.

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Table B-4. High Level Alarm Summary			
Pump Station Number	Pump Station Name	No. of Days with High Level Alarms	High Level Alarm Date
NORTH SHORE			
201	25th Street	0	N/A
202	33rd Street	0	N/A
203	Bay Shore	0	N/A
204	Bloxoms	0	N/A
206	Bridge Street	1	9/25/2008
207	Center Avenue	3	6/22/2008
			9/25/2008
			12/11/2008
208	Claremont	0	N/A
209	Copeland Park	0	N/A
210	Ferguson Park	1	12/11/2008
211	Hampton University	0	N/A
212	Hilton School	0	N/A
213	Jefferson Avenue	0	N/A
214	Kingsmill	0	N/A
216	Lucas Creek	0	N/A
217	Langley Circle	1	12/11/2008
218	Morrison	0	N/A
219	Newmarket	0	N/A
220	Normandy Lane	0	N/A
221	Patrick Henry	0	N/A
223	Washington Street	0	N/A
224	Woodland Road	0	N/A
225	Willard Avenue	0	N/A
226	Williamsburg	2	9/25/2008
			12/11/2008
227	Fort Eustis	2	12/11/2008
			12/12/2008
229	Colonial Williamsburg	0	N/A
230	Rolling Hills	0	N/A
231	Ford's Colony	7	4/21/2008
			4/22/2008
			5/11/2008
			9/8/2008
			9/25/2008
			11/30/2008
12/11/2008			
232	Greensprings	0	N/A
SOUTH SHORE			
101	Arctic Avenue	0	N/A
102	Ashland Circle	0	N/A
103	Bainbridge Blvd	0	N/A

Table B-4. High Level Alarm Summary			
Pump Station Number	Pump Station Name	No. of Days with High Level Alarms	High Level Alarm Date
104	Cedar Lane	0	N/A
105	Chesapeake Blvd	0	N/A
106	City Park	0	N/A
107	Colley Avenue	8	4/22/2008
			5/7/2008
			5/14/2008
			7/3/2008
			7/15/2008
			7/17/2008
			7/31/2008
8/18/2008			
108	Dovercourt Road	0	N/A
109	Dozier's Corner	3	7/5/2008
			12/11/2008
			12/12/2008
110	Ferebee Avenue	0	N/A
111	Granby Street	1	6/12/2008
113	Luxembourg Avenue	0	N/A
114	Monroe Place	0	N/A
115	Newtown Road	1	8/21/2008
116	Norchester Street	3	6/4/2008
			11/13/2008
			12/11/2008
117	North Shore Road	4	4/12/2008
			5/28/2008
			9/11/2008
			9/29/2008
118	Norview Avenue	0	N/A
119	Park Avenue	0	N/A
121	Plume Street	0	N/A
122	Powhatan	0	N/A
123	Quail Avenue	0	N/A
124	Richmond Crescent	0	N/A
125	Seay Avenue	0	N/A
128	Steamboat Creek	0	N/A
129	Taussig Blvd	0	N/A
130	Virginia Beach Blvd	0	N/A

Table B-4. High Level Alarm Summary			
Pump Station Number	Pump Station Name	No. of Days with High Level Alarms	High Level Alarm Date
127	State Street	10	5/11/2008
			7/15/2008
			7/17/2008
			8/18/2008
			8/22/2008
			9/9/2008
			9/11/2008
			11/18/2008
			12/4/2008
			12/7/2008
131	Washington Plant	0	N/A
132	Willoughby Avenue	0	N/A
135	Suffolk	5	4/29/2008
			9/18/2008
			10/28/2008
			12/11/2008
			12/12/2008
141	Hanover Avenue	6	5/22/2008
			5/25/2008
			5/31/2008
			6/5/2008
			9/5/2008
			9/11/2008
142	Jamestown Crescent	4	6/27/2008
			7/25/2008
			9/22/2008
			11/3/2008
144	Elmhurst Lane	1	5/6/2008
145	Rodman Avenue	2	7/23/2008
			12/11/2008
146	Camden Avenue	2	6/16/2008
			9/6/2008
147	Chesterfield Blvd	7	4/9/2008
			4/21/2008
			4/25/2008
			5/5/2008
			5/31/2008
			10/10/2008
			12/11/2008
148	Ingleside Road	0	N/A

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Table B-5. Pump Station Summary Table

No. (Count)	HRSD PS No.	HRSD PS Name	HRSD Flow Mon ID	Locality	LF of HRSD Gravity Sewer	GS Line Segments #s	# HRSD Manholes	Locality Service Area/ Basin ID/ Name ¹	Designated SSES Basis by Locality ¹	Locality-Peak-Flow-Threshold (gpm) ¹	Total Peak Flow Threshold for HRSD PS (gpm) ¹	PS Design Firm Capacity (gpm)	Pump Type (Constant Speed or VSD)	Exc. Pump Runtime	Unresolved SSOs at PS or HRSD Gravity
1	101	Arctic Ave PS		Virginia Beach				3	Yes	5,065	5,065	7,000	VSD		
2	102	Ashland Circle PS	Site 35	Norfolk				HRSD-102	-	-	NA	450	Constant Speed	Yes	
3	103	Bainbridge Blvd		Norfolk	1,293	SG-145	7	HRSD-103	-	-	NA	1,200	Constant Speed		
4	104	Cedar Lane PS		Chesapeake	4,960	SG-033, SG-034, SG-035	20	27	Yes	365	7,181	7,400	Both		Yes
								30	No	221					
								31	No	255					
								46	No	95					
								77	No	22					
								264	No	-					
								940	Yes	158					
				32				Yes	99						
				34				No	115						
				35				Yes	143						
				36				No	107						
				37				Yes	204						
				38				Yes	215						
				39				Yes	726						
				40				Yes	1,395						
				42				No	219						
				43				No	187						
44	No	120													
46	No	637													
47	No	147													
48	No	77													

Table B-5. Pump Station Summary Table

No. (Count)	HRSD PS No.	HRSD PS Name	HRSD Flow Mon ID	Locality	LF of HRSD Gravity Sewer	GS Line Segments #s	# HRSD Manholes	Locality Service Area/ Basin ID/ Name ¹	Designated SSES Basis by Locality ¹	Locality-Peak-Flow-Threshold (gpm) ¹	Total Peak Flow Threshold for HRSD PS (gpm) ¹	PS Design Firm Capacity (gpm)	Pump Type (Constant Speed or VSD)	Exc. Pump Runtime	Unresolved SSOs at PS or HRSD Gravity
								49	Yes	192					
								50	Yes	23					
								51	No	288					
								54	Yes	49					
								56	No	328					
								60	No	486					
								63	No	124					
								68	Yes	184					
5	105	Chesapeake Blvd PS	Site 33	Norfolk	7,603	SG-071, SG-072, SG-073, SG-074, SG-075, SG-077	41	HRSD-105	-	-	NA	4,000	Constant Speed		Yes
								HRSD-118	-	-					
								PS-046	-	-					
								PS-048	-	-					
								PS-056	-	-					
								PS-064	-	-					
								PS-070	-	-					
								PS-071	-	-					
6	106	City Park PS	Site 37	Norfolk	2,342	SG-063	13	HRSD - 106	-	-	NA	960	Constant Speed		
								HRSD-111	-	-					
7	107	Colley Ave PS	Site 36	Norfolk	3,645	SG-061, SG-201	TBD	HRSD-107	-	-	NA	8,100	Constant Speed		
8	108	Dovercourt Rd PS		Norfolk				HRSD-108	-	-	NA	5,000	VSD		
								PS-023	-	-					
								PS-047	-	-					
								PS-049	-	-					

Table B-5. Pump Station Summary Table

No. (Count)	HRSD PS No.	HRSD PS Name	HRSD Flow Mon ID	Locality	LF of HRSD Gravity Sewer	GS Line Segments #s	# HRSD Manholes	Locality Service Area/ Basin ID/ Name ¹	Designated SSES Basis by Locality ¹	Locality-Peak-Flow-Threshold (gpm) ¹	Total Peak Flow Threshold for HRSD PS (gpm) ¹	PS Design Firm Capacity (gpm)	Pump Type (Constant Speed or VSD)	Exc. Pump Runtime	Unresolved SSOs at PS or HRSD Gravity
								PS-069	-	-					
								PS-082	-	-					
								PS-089	-	-					
9	109	Dozier's Corner PS		Chesapeake				11	Yes	215	641	625	Constant Speed	Yes	
								22	Yes	67					
								909	Yes	359					
10	110	Ferebee Ave PS	Site 22B	Chesapeake	2,171	SG-157	11	4	Yes	183	1,359	600	Constant Speed		
								5	Yes	177					
								6	No	46					
								7	Yes	376					
								8	Yes	36					
								81	Yes	28					
								115	Yes	61					
								139	Yes	6					
								140	Yes	3					
910	Yes	443													
11	111	Granby Street		Norfolk				HRSD-111	-	-	NA	600	Constant Speed		
12	113	Luxembourg PS	Site 34	Norfolk	2,820	SG-067, SG-068, SG-068X	TBD	HRSD-102	-	-	NA	6,800	Constant Speed		
								HRSD-113	-	-					
								PS-018	-	-					
								PS-021	-	-					
								PS-030	-	-					
								PS-033	-	-					
								PS-130	-	-					

Table B-5. Pump Station Summary Table

No. (Count)	HRSD PS No.	HRSD PS Name	HRSD Flow Mon ID	Locality	LF of HRSD Gravity Sewer	GS Line Segments #s	# HRSD Manholes	Locality Service Area/ Basin ID/ Name ¹	Designated SSES Basis by Locality ¹	Locality-Peak-Flow-Threshold (gpm) ¹	Total Peak Flow Threshold for HRSD PS (gpm) ¹	PS Design Firm Capacity (gpm)	Pump Type (Constant Speed or VSD)	Exc. Pump Runtime	Unresolved SSOs at PS or HRSD Gravity
13	114	Monroe Place PS		Norfolk	958	SG-041	3	HRSD-114	-	-	NA	1,200	Constant Speed		
								HRSD-124	-	-					
14	115	Newtown Rd PS	Site 28	Norfolk	6,029	SG-112, SG-113	30	HRSD-115	-	-	NA	10,500	VSD		
								PS-039	-	-					
								PS-065	-	-					
		Virginia Beach	7	Yes	3,250	4,606									
			355	Yes	-										
			400	Yes	-										
			403	No	-										
404	No	1,356													
405	No	-													
15	116	Norchester PS	Site 27	Norfolk	7,088	SG-088, SG-089	40	HRSD-116	-	-	NA	3,500	VSD	Yes	Yes
								HRSD-125	-	-					
								HRSD-130	-	-					
								HRSD-147	-	-					
								HRSD-148	-	-					
								PS-026	-	-					
								PS-031	-	-					
								PS-043	-	-					
								PS-051	-	-					
								PS-052	-	-					
								PS-066	-	-					

Table B-5. Pump Station Summary Table

No. (Count)	HRSD PS No.	HRSD PS Name	HRSD Flow Mon ID	Locality	LF of HRSD Gravity Sewer	GS Line Segments #s	# HRSD Manholes	Locality Service Area/ Basin ID/ Name ¹	Designated SSES Basis by Locality ¹	Locality-Peak-Flow-Threshold (gpm) ¹	Total Peak Flow Threshold for HRSD PS (gpm) ¹	PS Design Firm Capacity (gpm)	Pump Type (Constant Speed or VSD)	Exc. Pump Runtime	Unresolved SSOs at PS or HRSD Gravity
								PS-072	-	-					
								PS-073	-	-					
								PS-081	-	-					
								PS-091	-	-					
								PS-094	-	-					
								PS-095	-	-					
								PS-115	-	-					
								PS-132	-	-					
								PS-135	-	-					
16	117	North Shore Rd PS		Norfolk				HRSD-117	-	-	NA	800	Constant Speed		
								PS-086	-	-					
17	118	Norview Ave PS		Norfolk				HRSD-118	-	-	NA	350	Constant Speed		
								PS-048	-	-					
18	119	Park Ave PS	Site 23	Chesapeake	6,298	SG-149, SG-153, SG-155	TBD	4	Yes	183	3,357	3,600	Constant Speed	Yes	
								5	Yes	177					
								6	No	46					
								7	Yes	376					
								8	Yes	36					
								76	No	2					
								81	Yes	28					
								115	Yes	61					
								132	Yes	789					
								139	Yes	6					
								140	Yes	3					
								240	No	17					

Table B-5. Pump Station Summary Table

No. (Count)	HRSD PS No.	HRSD PS Name	HRSD Flow Mon ID	Locality	LF of HRSD Gravity Sewer	GS Line Segments #s	# HRSD Manholes	Locality Service Area/ Basin ID/ Name ¹	Designated SSES Basis by Locality ¹	Locality-Peak-Flow-Threshold (gpm) ¹	Total Peak Flow Threshold for HRSD PS (gpm) ¹	PS Design Firm Capacity (gpm)	Pump Type (Constant Speed or VSD)	Exc. Pump Runtime	Unresolved SSOs at PS or HRSD Gravity
								910	Yes	443					
								919	Yes	1,190					
19	121	Plume St PS		Norfolk				HRSD-121	-	-	NA	8,680	Constant Speed		
								PS-098	-	-					
								PS-129	-	-					
20	122	Powhatan Ave PS		Norfolk	1,074	SG-044	10	HRSD-122	-	-	NA	800	Constant Speed		
								PS-112	-	-					
								PS-113	-	-					
								PS-114	-	-					
21	123	Quail Ave PS	Site 24	Chesapeake	10,217	SG-148, SG-151, SG-152	39	9	Yes	502	1,796	2,300	Constant Speed		
								36	Yes	55					
								42	No	144					
								83	Yes	235					
								166	No	8					
								923	Yes	853					
22	124	Richmond Crescent PS		Norfolk	857	SG-205	7	HRSD-124	-	-	NA	600	Constant Speed		Yes
23	125	Seay Ave PS		Norfolk				HRSD-125	-	-	NA	1,000	Constant Speed		Yes
								PS-066	-	-					
								PS-094	-	-					
24	127	State Street PS	Site 25	Chesapeake	9,210	SG-096, SG-098, SG-202	42	1	No	591	1,179	8,400	VSD		Yes
				39				Yes	588						
				Norfolk				HRSD-127	-	-	NA				
				PS-035				-	-						
								PS-060	-	-					

Table B-5. Pump Station Summary Table

No. (Count)	HRSD PS No.	HRSD PS Name	HRSD Flow Mon ID	Locality	LF of HRSD Gravity Sewer	GS Line Segments #s	# HRSD Manholes	Locality Service Area/ Basin ID/ Name ¹	Designated SSES Basis by Locality ¹	Locality-Peak-Flow-Threshold (gpm) ¹	Total Peak Flow Threshold for HRSD PS (gpm) ¹	PS Design Firm Capacity (gpm)	Pump Type (Constant Speed or VSD)	Exc. Pump Runtime	Unresolved SSOs at PS or HRSD Gravity
								PS-134	-	-					
25	128	Steamboat Creek PS	Site 26	Norfolk	4,661	SG-102, SG-104, SG-105	24	HRSD-128	-	-	NA	1,700	Constant Speed		
								PS-080	-	-					
								PS-122	-	-					
26	129	Taussig Blvd PS		Norfolk				PS-019	-	-	NA	10,390	Constant Speed		
27	130	Virginia Beach Blvd PS		Norfolk				HRSD-130	-	-	NA	3,000	Constant Speed		
								PS-051	-	-					
								PS-052	-	-					
								PS-095	-	-					
28	131	Washington District		Chesapeake	4,118	SG-161, SG-162	17	11	Yes	215	1,107	6,500	Constant Speed		
								13	Yes	66					
								22	Yes	67					
								56	No	122					
								241	No	48					
								909	Yes	359					
								931	Yes	230					
29	132	Willoughby Ave PS		Norfolk				HRSD-132	-	-	NA	1,000	Constant Speed		
								PS-006	-	-					
30	135	Suffolk PS		Suffolk	21,716	SG-191, SG-192, SG-193	116	PS010	Yes	411	2,822	4,700	VSD	Yes	Yes
								PS011	Yes	90					
								PS021	Yes	-					
								PS022	Yes	-					
								PS027	Yes	-					
								PS030	Yes	42					

Table B-5. Pump Station Summary Table

No. (Count)	HRSD PS No.	HRSD PS Name	HRSD Flow Mon ID	Locality	LF of HRSD Gravity Sewer	GS Line Segments #s	# HRSD Manholes	Locality Service Area/ Basin ID/ Name ¹	Designated SSES Basis by Locality ¹	Locality-Peak-Flow-Threshold (gpm) ¹	Total Peak Flow Threshold for HRSD PS (gpm) ¹	PS Design Firm Capacity (gpm)	Pump Type (Constant Speed or VSD)	Exc. Pump Runtime	Unresolved SSOs at PS or HRSD Gravity
								PS036	Yes	124					
								PS042	Yes	-					
								PS055	Yes	215					
								PS064	Yes	-					
								PS065	Yes	-					
								PS096	Yes	6					
								PS112	Yes	21					
								SC01-G	Yes	290					
								SC02-G	Yes	33					
								SC03-G	Yes	908					
								SC04-G	Yes	290					
SC05-G	Yes	394													
31	141	Hanover Ave PS		Norfolk				HRSD-141	-	-	NA	300	Constant Speed		
32	142	Jamestown Crescent PS		Norfolk				HRSD-142	-	-	NA	300	Constant Speed		
33	144	Elmhurst Lane PS		Portsmouth				5	No	5	2,739	6,000	VSD		
								11	No	339					
								23	No	850					
								24	Yes	3					
								25	No	137					
								26	Yes	1,380					
67	Yes	24													
34	145	Rodman Ave PS		Portsmouth				9	Yes	943	4,744	6,600	VSD	Yes	
								15	Yes	9					
								16	Yes	221					
								19	Yes	921					

Table B-5. Pump Station Summary Table

No. (Count)	HRSD PS No.	HRSD PS Name	HRSD Flow Mon ID	Locality	LF of HRSD Gravity Sewer	GS Line Segments #s	# HRSD Manholes	Locality Service Area/ Basin ID/ Name ¹	Designated SSES Basis by Locality ¹	Locality-Peak-Flow-Threshold (gpm) ¹	Total Peak Flow Threshold for HRSD PS (gpm) ¹	PS Design Firm Capacity (gpm)	Pump Type (Constant Speed or VSD)	Exc. Pump Runtime	Unresolved SSOs at PS or HRSD Gravity
								20	Yes	54					
								21	Yes	314					
								22	No	1,378					
								27	No	357					
								28	No	247					
								45	No	170					
								59	Yes	40					
								66	Yes	90					
35	146	Camden Ave PS		Portsmouth				4	Yes	3,289	6,402	8,400	VSD	Yes	
								10	Yes	1,267					
								12	No	460					
								13	Yes	578					
								14	Yes	235					
								17	Yes	351					
								18	Yes	68					
								53	Yes	112					
								62	Yes	32					
								64	Yes	11					
36	147	Chesterfield PS		Norfolk	325	SG-207	2	HRSD-147	-	-	NA	600	Constant Speed	Yes	
								PS-026	-	-					
								PS-135	-	-					
37	148	Ingleside Rd PS		Norfolk				HRSD-148	-	-	NA	600	Constant Speed		
								PS-115	-	-					
38	201	25th St		Newport News	1,019	NG-123	10	PS 169	Yes	*	NA	1,500	Constant Speed		Yes

Table B-5. Pump Station Summary Table

No. (Count)	HRSD PS No.	HRSD PS Name	HRSD Flow Mon ID	Locality	LF of HRSD Gravity Sewer	GS Line Segments #s	# HRSD Manholes	Locality Service Area/ Basin ID/ Name ¹	Designated SSES Basis by Locality ¹	Locality-Peak-Flow-Threshold (gpm) ¹	Total Peak Flow Threshold for HRSD PS (gpm) ¹	PS Design Firm Capacity (gpm)	Pump Type (Constant Speed or VSD)	Exc. Pump Runtime	Unresolved SSOs at PS or HRSD Gravity
39	202	33rd St		Newport News				PS 169	Yes	*	NA	3,000	Constant Speed		
40	203	Bay Shore Ln PS	Site 13	Hampton	4,029	NG-094, NG-095	26	30	No	207	1,236	3,975	Both		
								32	Yes	350					
								203	Yes	680					
41	204	Bloxoms Corner PS	Site 14	Hampton	4,023	NG-088	25	33	No	378	1,847	520	Constant Speed		
								44	No	320					
								45	Yes	23					
								46	Excluded	-					
								47	Yes	125					
								48	Yes	490					
								51	Yes	157					
								204	Yes	353					
42	206	Bridge Street PS	Site 8 and 8A	Hampton	3,431	NG-134, NG-135, NG-136, NG-137, NG-138	23	3	Yes	48	7,232	10,900	VSD		Yes
								4	Yes	62					
								5	Yes	86					
								6	Yes	378					
								7	Yes	314					
								11	Yes	1,073					
								12	Yes	329					
								13	Yes	122					
								14	Yes	267					
								15	Yes	36					
								16	Yes	157					
								25	Yes	10					
								27	Yes	900					
30	No	207													

Table B-5. Pump Station Summary Table

No. (Count)	HRSD PS No.	HRSD PS Name	HRSD Flow Mon ID	Locality	LF of HRSD Gravity Sewer	GS Line Segments #s	# HRSD Manholes	Locality Service Area/ Basin ID/ Name ¹	Designated SSES Basis by Locality ¹	Locality-Peak-Flow-Threshold (gpm) ¹	Total Peak Flow Threshold for HRSD PS (gpm) ¹	PS Design Firm Capacity (gpm)	Pump Type (Constant Speed or VSD)	Exc. Pump Runtime	Unresolved SSOs at PS or HRSD Gravity
								31	Yes	533					
								32	Yes	350					
								203	Yes	680					
								206	Yes	838					
								223	Yes	-					
								225	Yes	842					
43	207	Center Avenue		Newport News	16,680	NG-044, NG-045, NG-054, NG-056, NG-098, NG-102, NG-104, NG-175, NG-176	67	HRSD 212	Yes	1,417.27	1,429	4,900	Constant Speed		Yes
								PS 099	Yes	10.42					
								PS 135	Yes	1					
44	208	Claremont PS	Site 6	Hampton	19,689	NG-141, NG-142, NG-143, NG-146, NG-147, NG-148, NG-149, NG-150, NG-151, NG-152	80	1	No	420	6,751	UNDER CONSTRUCTION			Yes
								2	Yes	45					
								17	Yes	266					
								98	Yes	4					
								101	Yes	110					
								102	Yes	639					
								105	No	194					
								106	Yes	733					
								107	Yes	460					
								111	Yes	286					
								112	Yes	51					
								164	Yes	1					
208	Yes	3,542													

Table B-5. Pump Station Summary Table

No. (Count)	HRSD PS No.	HRSD PS Name	HRSD Flow Mon ID	Locality	LF of HRSD Gravity Sewer	GS Line Segments #s	# HRSD Manholes	Locality Service Area/ Basin ID/ Name ¹	Designated SSES Basis by Locality ¹	Locality-Peak-Flow-Threshold (gpm) ¹	Total Peak Flow Threshold for HRSD PS (gpm) ¹	PS Design Firm Capacity (gpm)	Pump Type (Constant Speed or VSD)	Exc. Pump Runtime	Unresolved SSOs at PS or HRSD Gravity
45	209	Copeland Park PS	Site 15	Hampton	6,280	NG-109	29	100	Yes	97	3,315	5,400	Constant Speed		
								103	Yes	15					
								104	Yes	283					
								113	Yes	927					
								114	No	498					
								115	Yes	1,218					
				209	Yes	151									
		Newport News					PS 004	Yes	126						
46	210	Ferguson Ave		Newport News				PS 011	Yes	*	NA	450	Constant Speed		Yes
47	211	Hampton Inst		Hampton				None	-	-	NA	800	Constant Speed		Yes
48	212	Hilton School PS		Newport News				**	**	**	NA	350	Constant Speed		Yes
49	213	Jefferson Ave PS		Newport News	203	NG-129	8	PS 145	Yes	*	NA	1,780	Constant Speed		
50	214	Kingsmill PS		James City Co.				LSA2-5	Yes	228	1,651	6,000	VSD		
								LSA2-6	No	190					
								LSA2-7	No	250					
								LSA2-8	No	69					
								LSA2-9	No	117					
								LSA6-7	No	211					
								LSA6-9	Yes	307					
								LSA7-4	No	59					
								LSA7-6	No	28					
								LSA7-7	No	61					
								LSA7-8	No	46					
								LSA8-6	No	61					

Table B-5. Pump Station Summary Table

No. (Count)	HRSD PS No.	HRSD PS Name	HRSD Flow Mon ID	Locality	LF of HRSD Gravity Sewer	GS Line Segments #s	# HRSD Manholes	Locality Service Area/ Basin ID/ Name ¹	Designated SSES Basis by Locality ¹	Locality-Peak-Flow-Threshold (gpm) ¹	Total Peak Flow Threshold for HRSD PS (gpm) ¹	PS Design Firm Capacity (gpm)	Pump Type (Constant Speed or VSD)	Exc. Pump Runtime	Unresolved SSOs at PS or HRSD Gravity	
								LSA9-4	No	24						
51	216	Lucas Creek PS		Newport News				HRSD 216	Yes	241	407	13,700	Constant Speed		Yes	
								PS 118	Yes	166						
52	217	Langley Circle PS	Site 10	Hampton	4,156	NG-062, NG-063, NG-064	21	22	Yes	335	3,096	9,000	Both	Yes		
								23	Yes	1,843						
								24	Yes	62						
								28	Yes	18						
								34	Yes	90						
								35	No	258						
								217	Yes	490						
53	218	Morrison Ave PS		Newport News				HRSD 218	Yes	1,203	1,986	1,500	Both	Yes		
								PS 022	Yes	9						
								PS 023	Yes	126						
								PS 129	No	648						
54	219	Newmarket Creek PS		Hampton	15,694	NG-052, NG-053, NG-057, NG-099	76	127	Yes	940	8,280	3,200	Constant Speed	Yes		
								131	Yes	765						
								132	No	452						
								142	Yes	213						
								146	No	733						
								151	No	601						
								159	Yes	54						
								162	Yes	49						
								163	Yes	52						
								165	Excluded	-						
219	Yes	3,100														

Table B-5. Pump Station Summary Table

No. (Count)	HRSD PS No.	HRSD PS Name	HRSD Flow Mon ID	Locality	LF of HRSD Gravity Sewer	GS Line Segments #s	# HRSD Manholes	Locality Service Area/ Basin ID/ Name ¹	Designated SSES Basis by Locality ¹	Locality-Peak-Flow-Threshold (gpm) ¹	Total Peak Flow Threshold for HRSD PS (gpm) ¹	PS Design Firm Capacity (gpm)	Pump Type (Constant Speed or VSD)	Exc. Pump Runtime	Unresolved SSOs at PS or HRSD Gravity
				Newport News	4,012	NG-127	17	HRSD 219	Yes	1,181					
								PS 096	Yes	142					
55	220	Normandy Ln PS		Newport News	3,198	NG-034, NG-035	16	HRSD 220	Yes	89	395	600	Constant Speed		
								PS 092	Yes	51					
								PS 097	Yes	145					
								PS 121	Yes	110					
56	221	Patrick Henry PS		Newport News				HRSD 221	Yes	1,115	1,608	3,700	VSD	Yes	Yes
								PS 081	Yes	396					
								PS 124	Yes	97					
57	223	Washington St PS	Site 9	Hampton	10,440	NG-067, NG-078, NG-082, NG-083, NG-084	54	3	Yes	48	2,559	3,000	VSD		
								12	Yes	329					
								14	Yes	267					
								15	Yes	36					
								16	Yes	157					
								25	Yes	10					
								223	Yes	1,711					
58	224	Woodland Rd		Hampton	6,217	NG-092, NG-086, NG-087	34	37	No	425	2,769	3,600	VSD		
								38	Yes	11					
								41	No	277					
								42	No	274					
								43	No	307					
								224	Yes	1,475					
59	225	Willard Ave PS	Site 12	Hampton	5,842	NG-157, NG-159, NG-160	27	4	Yes	62	5,547	5,750	VSD	Yes	
								5	Yes	86					
								6	Yes	378					

Table B-5. Pump Station Summary Table

No. (Count)	HRSD PS No.	HRSD PS Name	HRSD Flow Mon ID	Locality	LF of HRSD Gravity Sewer	GS Line Segments #s	# HRSD Manholes	Locality Service Area/ Basin ID/ Name ¹	Designated SSES Basis by Locality ¹	Locality-Peak-Flow-Threshold (gpm) ¹	Total Peak Flow Threshold for HRSD PS (gpm) ¹	PS Design Firm Capacity (gpm)	Pump Type (Constant Speed or VSD)	Exc. Pump Runtime	Unresolved SSOs at PS or HRSD Gravity
								7	Yes	314					
								11	Yes	1,073					
								13	Yes	122					
								27	Yes	900					
								30	No	207					
								31	Yes	533					
								32	Yes	350					
								203	Yes	680					
								225	Yes	842					
60	226	Williamsburg PS		Williamsburg				12A-8	Yes	70	1,092	5,600	VSD		Yes
								12A-9	Yes	38					
								226A-5	No	716					
								226A-6	Yes	267					
61	227	Fort Eustis		Newport News				None			-	3,522	VSD		
62	229	Colonial Williamsburg PS		Williamsburg				229A-1	Yes	127	2,231	4,500	VSD		
								229A-3	No	908					
								229B-2	Yes	220					
								229B-4	Yes	222					
				York County					229	Yes					
63	230	Rolling Hills		York County				230	Yes	345	345	1,400	Constant Speed		
64	231	Ford's Colony		James City Co.				LSA1-5	Yes	3,339	4,005	2,400	Constant Speed	Yes	Yes
								LSA5-5	Yes	452					
								LSA5-9	Yes	54					
								LSA7-2	No	160					
65	232	Greensprings		James City Co.				LSA1-1	No	546	4,129	2,500	VSD	Yes	Yes
								LSA1-2	Yes	2,370					

Table B-5. Pump Station Summary Table

No. (Count)	HRSD PS No.	HRSD PS Name	HRSD Flow Mon ID	Locality	LF of HRSD Gravity Sewer	GS Line Segments #s	# HRSD Manholes	Locality Service Area/ Basin ID/ Name ¹	Designated SSES Basis by Locality ¹	Locality-Peak-Flow-Threshold (gpm) ¹	Total Peak Flow Threshold for HRSD PS (gpm) ¹	PS Design Firm Capacity (gpm)	Pump Type (Constant Speed or VSD)	Exc. Pump Runtime	Unresolved SSOs at PS or HRSD Gravity
								LSA1-8	Yes	31					
								LSA1-9	Yes	183					
								LSA2-1	Yes	45					
								LSA2-2	Excluded	1					
								LSA4-7	Yes	147					
								LSA5-7	Yes	14					
								LSA7-1	Yes	85					
								LSA8-2	Yes	50					
								LSA8-4	Yes	192					
								LSA8-5	Yes	51					
								LSA8-7	Yes	82					
								LSA8-8	No	99					
								LSA8-9	Yes	57					
								LSA9-2	Yes	36					
LSA9-6	Yes	140													
66	233	Lodge Road		James City Co.				LSA5-4	Yes	210	2,418	TBD	-		
				York County				1	Yes	160					
								3	Yes	187					
								4	Yes	17					
								5	Yes	36					
								6	Yes	367					
								7	Yes	68					
								8	Yes	39					
								9	Yes	154					
								65	Yes	148					
66	Yes	44													

Table B-5. Pump Station Summary Table

No. (Count)	HRSD PS No.	HRSD PS Name	HRSD Flow Mon ID	Locality	LF of HRSD Gravity Sewer	GS Line Segments #s	# HRSD Manholes	Locality Service Area/ Basin ID/ Name ¹	Designated SSES Basis by Locality ¹	Locality-Peak-Flow-Threshold (gpm) ¹	Total Peak Flow Threshold for HRSD PS (gpm) ¹	PS Design Firm Capacity (gpm)	Pump Type (Constant Speed or VSD)	Exc. Pump Runtime	Unresolved SSOs at PS or HRSD Gravity
								HRSD Lodge Rd PS	Yes	988					
								JCC	Yes	-					

¹Information provided by Localities.

*Service Area delineated in SSES Plan included flows outside of HRSD Pump Station Service Area

** HRSD's Hilton School PS was included in the service are tributary to Center Avenue PS by Newport News

NA = Not available

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Table B-6. Wet Well Pump Station Prioritization

Priority Group	Pump Station Number	Pump Station Name	Pump Station Size Based on Capacity	SSOs Not Related to Major Storm Events, Operator Error, Third Party Actions	Excessive Pump Run Time?	Number of Days with High Level Alarms	Total Score
			10 – Very Large (>7.56 MGD) 8 – Large (3.77 – 7.56 MGD) 3 – Medium (1.54 – 3.77 MGD) 1 – Small (<1.54 MGD)	10 – 4 or More SSOs 8 – 2 or 3 SSOs 3 – 1 SSO 0 – 0 SSOs	10 – Yes 0 – No	10 – 5 or More Days 8 – 2 to 4 Days 3 – 1 Day 0 – 0 Days	Maximum score of 1000
			30	40	10	20	Weight
Group 1	135	Suffolk	10	8	10	10	920
Group 1	226	Williamsburg	10	10	0	8	860
Group 1	127	State Street	10	8	0	10	820
Group 1	206	Bridge St	10	10	0	3	760
Group 1	221	Patrick Henry	8	10	10	0	740
Group 1	105	Chesapeake Blvd	10	10	0	0	700
Group 1	116	Norchester Street	3	8	10	8	670
Group 1	207	Center Ave	3	10	0	8	650
Group 1	214	Kingsmill	10	8	0	0	620
Group 1	145	Rodman Avenue	10	0	10	8	560
Group 1	146	Camden Avenue	10	0	10	8	560
Group 1	231	Ford's Colony	3	3	10	10	510
Group 1	217	Langley Circle	10	0	10	3	460
Group 1	107	Colley Avenue	8	0	0	10	440
Group 1	104	Cedar Lane	10	3	0	0	420
Group 1	210	Ferguson Park	1	8	0	3	410
Group 1	227	Fort Eustis	8	0	0	8	400
Group 1	115	Newtown Road	10	0	0	3	360
Group 1	216	Lucas Creek	8	3	0	0	360
Group 1	119	Park Avenue	8	0	10	0	340
Group 1	219	Newmarket	8	0	10	0	340
Group 1	225	Willard Ave	8	0	10	0	340
Group 2	147	Chesterfield Blvd	1	0	10	10	330
Group 2	232	Greensprings	3	3	10	0	310
Group 2	101	Arctic Avenue	10	0	0	0	300
Group 2	121	Plume Street	10	0	0	0	300
Group 2	129	Taussig Blvd	10	0	0	0	300

Table B-6. Wet Well Pump Station Prioritization

Priority Group	Pump Station Number	Pump Station Name	Pump Station Size Based on Capacity	SSOs Not Related to Major Storm Events, Operator Error, Third Party Actions	Excessive Pump Run Time?	Number of Days with High Level Alarms	Total Score
			10 – Very Large (>7.56 MGD) 8 – Large (3.77 – 7.56 MGD) 3 – Medium (1.54 – 3.77 MGD) 1 – Small (<1.54 MGD)	10 – 4 or More SSOs 8 – 2 or 3 SSOs 3 – 1 SSO 0 – 0 SSOs	10 – Yes 0 – No	10 – 5 or More Days 8 – 2 to 4 Days 3 – 1 Day 0 – 0 Days	Maximum score of 1000
			30	40	10	20	Weight
Group 2	131	Washington Plant	10	0	0	0	300
Group 2	208	Claremont	10	0	0	0	300
Group 2	144	Elmhurst Lane	8	0	0	3	300
Group 2	109	Dozier's Corner	1	0	10	8	290
Group 2	117	North Shore Road	3	0	0	8	250
Group 2	108	Dovercourt Road	8	0	0	0	240
Group 2	113	Luxembourg Avenue	8	0	0	0	240
Group 2	130	Virginia Beach Blvd	8	0	0	0	240
Group 2	202	33rd Street	8	0	0	0	240
Group 2	203	Bay Shore	8	0	0	0	240
Group 2	209	Copeland Park	8	0	0	0	240
Group 2	223	Washington Street	8	0	0	0	240
Group 2	229	Colonial Williamsburg	8	0	0	0	240
Group 2	230	Rolling Hills	8	0	0	0	240
Group 2	141	Hanover Avenue	1	0	0	10	230
Group 2	201	25th Street	3	3	0	0	210
Group 2	218	Morrison	3	0	10	0	190
Group 3	142	Jamestown Crescent	1	0	0	8	190
Group 3	124	Richmond Crescent	1	3	0	0	150
Group 3	125	Seay Avenue	1	3	0	0	150
Group 3	211	Hampton U	1	3	0	0	150
Group 3	212	Hilton School	1	3	0	0	150
Group 3	102	Ashland Circle	1	0	10	0	130
Group 3	103	Bainbridge Blvd	3	0	0	0	90
Group 3	110	Ferebee Avenue	3	0	0	0	90
Group 3	122	Powhatan Avenue	3	0	0	0	90
Group 3	123	Quail Avenue	3	0	0	0	90

Table B-6. Wet Well Pump Station Prioritization

Priority Group	Pump Station Number	Pump Station Name	Pump Station Size Based on Capacity	SSOs Not Related to Major Storm Events, Operator Error, Third Party Actions	Excessive Pump Run Time?	Number of Days with High Level Alarms	Total Score
			10 – Very Large (>7.56 MGD) 8 – Large (3.77 – 7.56 MGD) 3 – Medium (1.54 – 3.77 MGD) 1 – Small (<1.54 MGD)	10 – 4 or More SSOs 8 – 2 or 3 SSOs 3 – 1 SSO 0 – 0 SSOs	10 – Yes 0 – No	10 – 5 or More Days 8 – 2 to 4 Days 3 – 1 Day 0 – 0 Days	Maximum score of 1000
			30	40	10	20	Weight
Group 3	128	Steamboat Creek	3	0	0	0	90
Group 3	132	Willoughby Avenue	3	0	0	0	90
Group 3	213	Jefferson Ave	3	0	0	0	90
Group 3	220	Normandy Lane	3	0	0	0	90
Group 3	224	Woodland Road	3	0	0	0	90
Group 3	111	Granby Street	1	0	0	3	90
Group 3	106	City Park	1	0	0	0	30
Group 3	114	Monroe Place	1	0	0	0	30
Group 3	118	Norview Avenue	1	0	0	0	30
Group 3	148	Ingleside Road	1	0	0	0	30
Group 3	204	Bloxoms Corner	1	0	0	0	30

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Table B-7. PRS Prioritization					
Priority Group	Pump Station Number	Pump Station Name	Pump Station Size Based on Capacity	Pump Station Age	Total Score
			10 – Very Large (>25 MGD) 8 – Large (18 - 25 MGD) 3 – Medium (15 - 18 MGD) 1 – Small (<15 MGD)	10 – Greater than 35 Years Old 8 – 30 to 35 Years Old 3 – 20 to 29 Years Old 1 – Less than 20 Years Old	Maximum score of 1000
			40	60	Weight
Group 1	112	Independence Blvd PRS	8	10	920
Group 1	133	Providence Road PRS	10	8	880
Group 1	140	Atlantic Avenue PRS	10	8	880
Group 1	205	Big Bethel PRS	3	10	720
Group 1	120	Pine Tree PRS	1	10	640
Group 2	134	Pughsville Road PRS	3	8	600
Group 2	143	Shipps Corner PRS	10	3	580
Group 2	215	Lee Hall PRS	1	8	520
Group 2	151	Kempsville Road PRS	10	1	460
Group 2	152	Terminal Blvd PRS	8	1	380
Group 3	153	Laskin Road PRS	8	1	380
Group 3	139	Quail Avenue PRS	3	3	300
Group 3	137	Bowers Hill PRS	1	3	220
Group 3	138	Deep Creek PRS	1	3	220
Group 3	154	Route 337 PRS	3	1	180

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