

**PETERS TOWNSHIP
SANITARY AUTHORITY**

111 BELL DRIVE
McMURRAY, PA 15317-3415
PHONE: 724-941-6709
FAX: 724-941-2283
Web Site: ptsaonline.org



AGENDA

James J. Miskis, Manager
Mark A. Chucuddy, Asst. Manager
Gary A. Parks, Special Projects Manager
Patricia L. Mowry, Financial Controller
Diane L. Gregor, Admin. Assistant

REGULAR MEETING

January 11, 2011

ROLL CALL:

REORGANIZATION:

1. Election of Temporary Chair
2. Nominations for Chair
3. Conduct the balance of the re-organization meeting

REVIEW OF MINUTES FOR APPROVAL: Minutes of December 14, 2010

VISITORS:

Insurance Presentation by Risk Management Resources

SOLICITOR'S REPORT:

ENGINEER'S REPORT:

MANAGER'S REPORT:

ASSISTANT MANAGER'S REPORT:

SPECIAL PROJECTS MANAGER REPORT:

CORRESPONDENCE FOR THE BOARD'S INFORMATION:

FINANCIAL CONTROLLER'S REPORT:

FINANCIAL STATEMENT REVIEW: Month ending December 31, 2010

PAYMENT OF BILLS & REQUISITIONS:

OTHER BUSINESS:

1. Policy development on proceeding with Building Sewer Inspection Program
2. Adoption of Resolution No. 01-01-11, Disposition Resolution for destruction of specific records according to the Municipal Manual
3. Executive Session to discuss personnel matters

ADJOURNMENT:

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REGULAR MEETING

January 11, 2011

ROLL CALL:

The regularly scheduled meeting of the Peters Township Sanitary Authority was called to order at 7:00 p.m. by the Chairman. Board members present were G. Robert Jacobs, Eric S. Grimm, David G. Blazek, Terrence G. Byrne and Michael P. Crall. Also present were Keith Bassi, Solicitor, Jason E. Stanton, Lennon Smith Souleret Engineering, Inc. (LSSE), James J. Miskis, Manager, Mark A. Chucuddy, Assistant Manager, Gary Parks, Special Projects Manager, and Patricia L. Mowry, Financial Controller.

REORGANIZATION OF THE BOARD:

Mr. Jacobs nominated Mr. Grimm as Temporary Chairman to begin the Reorganization of the Board. A vote took place 5-0.

Mr. Blazek nominated Mr. Jacobs for Chairman Position. A vote took place 5-0. Mr. Jacobs assumed position of the Chairman and conducted the remaining of the meeting.

Mr. Grimm moved to nominate the existing slate of officers with Mr. Crall assuming the Treasurer position. There being no further nominations the Secretary cast a unanimous vote for all positions.

Mr. Miskis recommended retaining the following professionals:

Solicitor	Bassi, McCune & Vreeland, P.C.
Consulting Engineer	Lennon, Smith Souleret Engineering, Inc.
Depository	PNC, McMurray Office
Auditors	Hosack, Specht, Muetzel & Wood
Financial Advisor	PNC Capital Markets

A Motion was made by Mr. Blazek and seconded by Mr. Grimm to retain the above professional appointments. The Motion carried unanimously.

A Motion was made by Mr. Byrne and seconded by Mr. Blazek to approve the PTSA's Official Newspapers as the Observer Reporter, Tribune Review, and Post Gazette and the Board meeting dates were set for the 2nd and 4th Tuesday of every month at 7:00 p.m., located in the lower level of the Authority's business office. The meetings are subject to change to Wednesday's or Thursday's with notification being announced at each Board meeting. The Motion carried unanimously.

Mr. Lou Lignelli from County Line Advisors presented a brief summary of the grant consulting services performed in the past and a 2011 outlook on grant applications. Mr. Lignelli requested reappointment as PTSA's Grant Coordinator and presented a new proposal as requested by Mr. Miskis. The compensation would be a monthly retainer of \$1,000 plus expenses and bonus

payment based on varying percentages of any grants received, with a not to exceed amount of \$25,000 in a calendar year. Other services would be billed at \$150 per hour.

A Motion was made by Mr. Grimm and seconded by Mr. Crall to approve County Line Advisors appointment under the proposed contract for 2011. The Motion carried unanimously.

Mr. Lignelli left meeting at 7: 25 p.m.

APPROVAL OF MINUTES:

A Motion was made by Mr. Blazek and seconded by Mr. Grimm to approve the minutes of December 14, 2010 meeting as prepared by Patricia Mowry. The Motion carried 4-0. Mr. Crall abstained.

VISITORS: none present

SOLICITOR'S REPORT: Copy on file.

Mr. Bassi reported while he was finalizing the oil and gas lease agreement with Dale properties for the 1.8 acres located at 974 Churchhill Road another Landman made an offer with other benefits for the leasing rights. Mr. Bassi will continue to evaluate the best options for leasing and obtain confirmation that the Authority actual owns the leasing rights to the property.

Mr. Bassi reported there have been two labor negotiation sessions held and requested the Board enter into executive session to discuss the details of the negotiations.

A Motion was made by Mr. Byrne and seconded by Mr. Blazek to enter into execute session at 7:34 p.m to discuss personnel matters. The Motion carried unanimously.

Executive Session ended at 8:00 p.m.

ENGINEER'S REPORT: Copy on file.

Mr. Stanton reported the Annual Engineer's report was finalized and forwarded to the Trustee.

Mr. Stanton expressed his gratitude to the Board for 2011 reappointment as the Authority's Consulting Engineer and presented the 2011 Engineer's Service contract for execution.

A Motion was made by Mr. Blazek and seconded by Mr. Grimm to execute the 2011 Engineering Agreement with Lennon, Smith, Souleret Engineering, Inc. The Motion carried unanimously.

Mr. Stanton reported he has initiated the draft review of the preliminary plans for the Tuscany development and that a meeting was held with the Developer on January 7, 2011. Management expressed concerns regarding the sizing of the interceptor sewer in order for the upstream properties of the development to connect by gravity to the main sewer line.

Mr. Stanton reported a draft preliminary report with the recommendation of the Giant Oaks and Oakwood Road interceptor modeling will be delivered to Management within a month. The workshop for the presentation of the modeling and recommendations was scheduled for March 22, 2011 at 7:00 p.m.

ASSISTANT MANAGER'S REPORT: Copy on file

Mr. Chucuddy reported all the issues including the outstanding item concerning the various methodologies for one of the analysis performed are resolved for the PADEP Bureau of laboratories Laboratory Accreditation Program. The Corrective Action Plan will be submitted by January 26, 2011.

Mr. Chucuddy reported Allegheny Power has requested additional cost information regarding the equipment enrolled in the Watt Watchers Rebate program. Mr. Chucuddy will obtain the information from the contractor for the VFD energy project and re-submit. In addition some of the equipment submitted for rebate is not eligible and the final rebate will be adjusted accordingly.

Mr. Chucuddy reported while conducting SCADA updates to incorporate the new DO analyzer a minor problem occurred and the modbus modulator was burned up. The replacement equipment was ordered at a cost of \$2,236.67.

SPECIAL PROJECTS MANAGER'S REPORT: Copy on File

CORRESPONDENCE FOR THE BOARD'S INFORMATION: Copy on file

FINANCIAL CONTROLLER'S REPORT: Copy on file

Mrs. Mowry distributed to the Board Ethics forms for 2011. The completed forms are to be submitted directly to the Township.

Mrs. Mowry reported the Municipal Records Manual requires the Board to approve the disposition of public records and recommended resolution 01-01-11.

A Motion was made by Mr. Blazek and seconded by Mr. Grimm to approve Resolution 01-01-11 for the disposition of the 2003 accounts payable invoices, 2003 accounts receivable, and 2003 Bank Statements. The Motion carried unanimously.

FINANCIAL STATEMENT REVIEW: Month ending December 31, 2010.

PAYMENT OF BILLS & REQUISITIONS: Copy on File

A Motion was made by Mr. Grimm and seconded by Mr. Blazek to approve disbursements in the amount of \$176,856.32 from the following funds:

<u>Fund</u>	<u>Disbursement</u>	<u>Total</u>
Operating	Checks: 18995-19075	\$76,170.06
Payroll	Transfer from Operating to Payroll fund	\$ 60,000.00
Developer	Transfer to Operating	\$808.56
CIRF	Transfer to Operating & Req. 93-11	\$39,877.70

The Motion carried unanimously.

Mrs. Mowry, Mr. Chucuddy, and Mr. Bassi, left the meeting due to the weather conditions at 8:45 p.m.

MANAGER'S REPORT: Copy on file.

Mr. Miskis reported the Commonwealth Financing Authority is scheduled to announce the grant awards on January 13, 2011. The Authority submitted the application in July of 2010 for the Valley View sewer project in amount of \$555,500.

Mr. Miskis reported the three minute presentation for grant request for the Valley View sewer project with the 2010 Washington County Local Share Account is scheduled for January 20, 2011.

Mr. Miskis reported if policy development regarding the Building sewer inspections does not move forward, then the Authority will need to invest more money into the public sewers, which will result in larger future sewer rates increases.

Mr. Miskis reported later in the meeting there will be a presentation on the program overview, in February C&K Industrials will give a 30-minute presentation on rain fall simulation, and how PTSA would apply the concept, then in March a presentation on specific details of the recommended program. At the March meeting Management will request guidance from the Board on how to proceed with the program.

Mr. Miskis reported the probability of getting Bethel Park to accept sewage flows from Piney Fork area dropped significantly on November 30, 2010 when the Bethel Park Piney Fork Sewage Treatment Plant bypassed 3 to 4 million gallons of untreated sewage due to the 3.5 inch rainfall, after spending \$7 million in 2009 in upgrades.

Mr. Miskis reported that a separate water encroachment permit was not required for the Brush Run Wet Weather project, instead the current permit was amended. The project is ready for bidding and Mr. Miskis recommended the project for bid. The bids will be due by March 7, 2011.

A Motion was made by Mr. Grimm and seconded by Mr. Blazek to advertise for bid the Brush Run Wet Weather project. The Motion carried unanimously.

Mr. Miskis presented an overview of the policy development on proceeding with the Building Sewer Inspection Program. The presentation consisted of the history of what brought the Authority to this point, an evaluation of need to implement an area wide program, regulations that prohibit SSO's, ways the Authority would implement the program, and a proposed outline of future Board presentations on this topic in order to prepare the Board to make a decision to move forward with the program or not. The presentation will be made as part of the minutes.

Mr. Miskis recommended approving LSSE to perform Brush Run flow isolation and to update the Bubble Diagram that was last done in 2003.

A Motion was made by Mr. Blazek and seconded by Mr. Grimm to approve LSSE's Service Order No. for the Brush Run Peak Flow reduction program support and Bubble Diagram Update for a amount not to exceed \$37,100. The Motion carried unanimously.

OTHER BUSINESS:

A Motion was made by Mr. Grimm and seconded by Mr. Byrne to adjourn the meeting at 10:15 p.m. The Motion carried unanimously.

Respectfully Submitted,

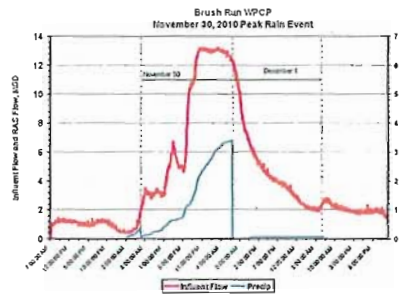
Patricia L. Mowry

MOTIONS SUMMARY

MOTION NO.	MOVED	SECO ND	MOTION SUMMARY TABLE	VOTE
	Jacobs Nominated Grimm		Nomination for Temporary Chairman	5-0
	Blazek Nominated Jacobs		Nominations for the Chairman Position	5-0
	Grimm Nominated		Existing Slate of Officers	5-0
1	Blazek	Grimm	Approve to retain all Professional & Depository Appointments	Approved
2	Byrne	Blazek	Approve Official Newspapers	Approved
3	Byrne	Blazek	Approve meeting dates as the 2 nd and 4 th Tuesday of every month at 7:00 p.m., located at the Authority's Administrative office	Approved
4	Blazek	Grimm	Approve Minutes of the December 14th 2010 meeting	4-0
5	Grimm	Crall	Approve County Line Advisors 2011 appointment	Approved
6	Blazek	Grimm	Approve Minutes of December 14,2010	Approved
7	Byrne	Blazek	Enter into executive session to discuss personnel matters	Approved
8	Blazek	Grimm	Execute 2011 engineer agreement	Approved
9	Blazek	Grimm	Approve Resolution 1-1-11 for disposition of 2003 records	Approved
10	Grimm	Blazek	Approve disbursements in the amount of \$176,856.32	Approved
11	Grimm	Blazek	Advertise bids for BR Wet Weather project	Approved
12	Blazek	Grimm	Approve LSSE SOA for BR Peak Flow program	Approved
13	Grimm	Byrne	Adjourn the Meeting at 10:15 p.m.	Approved

Evaluation of Need to Implement Area Wide Building Sewer Inspection and Repair Program

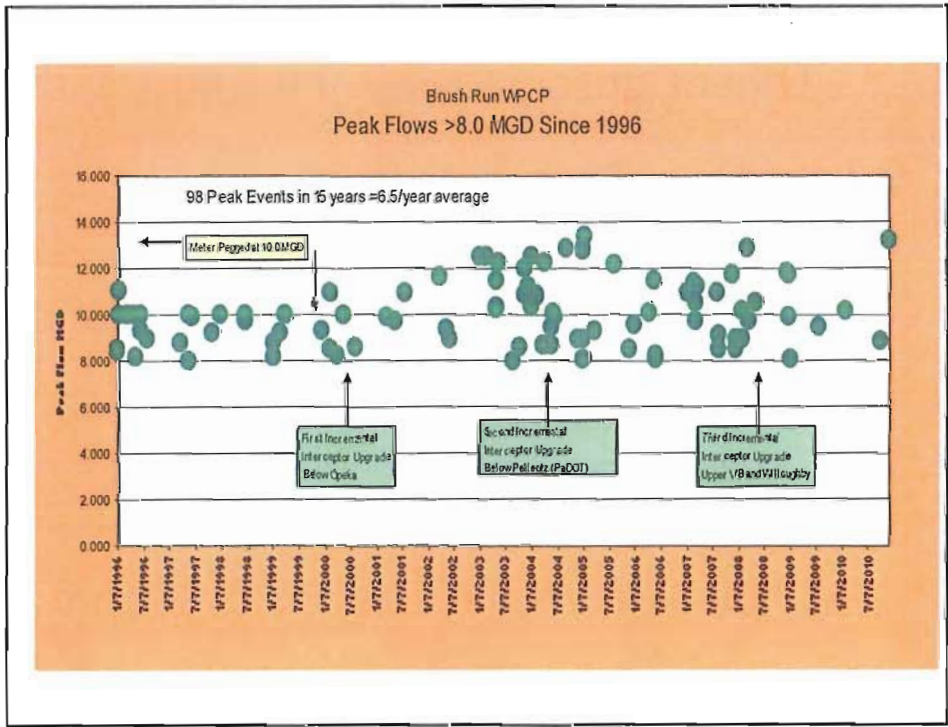
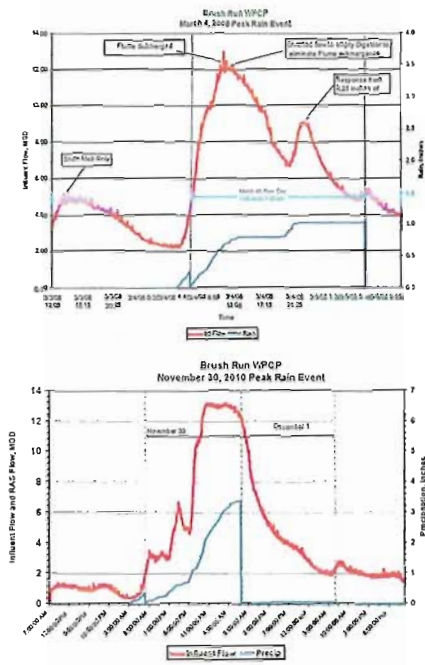
January 11, 2011



Presentation Schedule

- Part I, or what brought us to this point
- Part II, February Meeting
 - C&K Industries Rainfall Simulation
 - Other elements of testing properties for infiltration
- Part III, March Meeting
 - Specific elements of recommended policy
 - Board Direction to move forward or not

- Frequency is precipitation dependent
- Greater than 8.0 MGD is 6 to 7 times/year
- Greater than 10 MGD is 3 times/year
- Greater than 12 MGD is 1 to 2 times/year



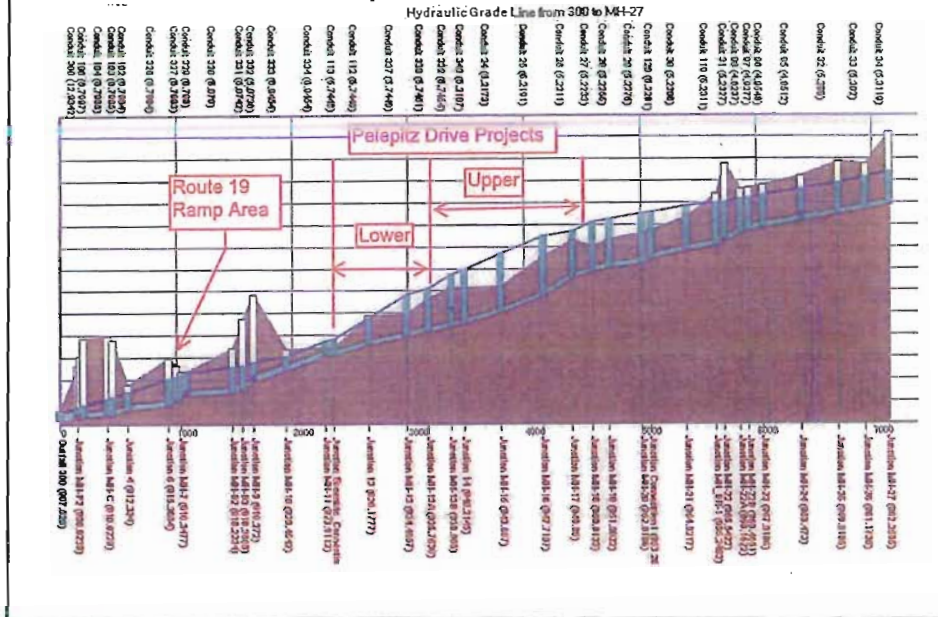
Impending Nutrient Limits

- Future Treatment Plant Discharge Limits For Nutrients
 - ❖ Nitrogen and Phosphorous
- DEP Proposed Rulemaking, February, 2010 (since withdrawn):
 - ❖ New tertiary treatment standards would apply to all *"new or expanding discharges of treated sewage to impaired waters where the impairment has been attributed to discharges of treated sewage"*
- This rulemaking would require substantial capital improvements, including final effluent filters, at our treatment plants.
- The Brush Run Plant's 2.0 MGD capacity can last 15 years, and if progress can be made in removing infiltration, a capacity upgrade can be postponed, another 15 years, avoiding major capital expenditures.
- Minimizing peak wet flows will also reduce the cost of any future expansion to add tertiary treatment.

Efforts to Identify Sources

- Brush Run I/I Study by LSSE in 2002-2004
 - ❖ Installed continuous flow monitors throughout interceptors and trunk sewers
 - ❖ Nighttime flow isolation investigations
 - ❖ Developed Hydraulic Model of Interceptor

Interceptor at Peak Flow



Is it Inflow or Infiltration?

- Infiltration = Subsurface Sources (cracked pipe, leaking joints)
 - Inflow = Direct Connections (area drains, catch basins, downspouts)
 - A downspout that contributes 1,000 gallons of water during a 0.5 inch rainfall, will contribute 2,000 gallons during a 1.0 inch rainfall
- 4/16/2010 Storm Event
- 0.5 inch storm on dry ground
 - 24-hour volume increase from previous day was 206,000 gals
 - Proportionately, a 1.3 inch rainfall should generate no more than 536,000 gallons, if all were from Direct Connections
- 3/4/2008 Peak Rain Event
- 1.3 inch rainfall on saturated ground
 - 48-hour volume increase was 11,000,000 gallons (*before returning to pre-rainfall levels*)
 - **5% inflow, 95% infiltration**

Measuring Success

- Plant Peak Flows Are Not Decreasing
 - ❖ March 4-5, 2008, 12.5 MGD with SSOs
 - ❖ November 30, 2010, 13.3 MGD, with SSOs
- Reference Sewershed Approach
 - Uses a Control mini-basin as a reference
 - We experimented with Friar/E. Edgewood
 - Friar was rehabilitated by CIP lining
 - E. Edgewood the Control, No repairs

What is a control basin?

A control basin allows comparison of flows for similar wet-weather events. A control basin is:

- similar in size to a mini-basin.
- has sufficient I/I to react to wet weather events.
- local to sewer system being studied.

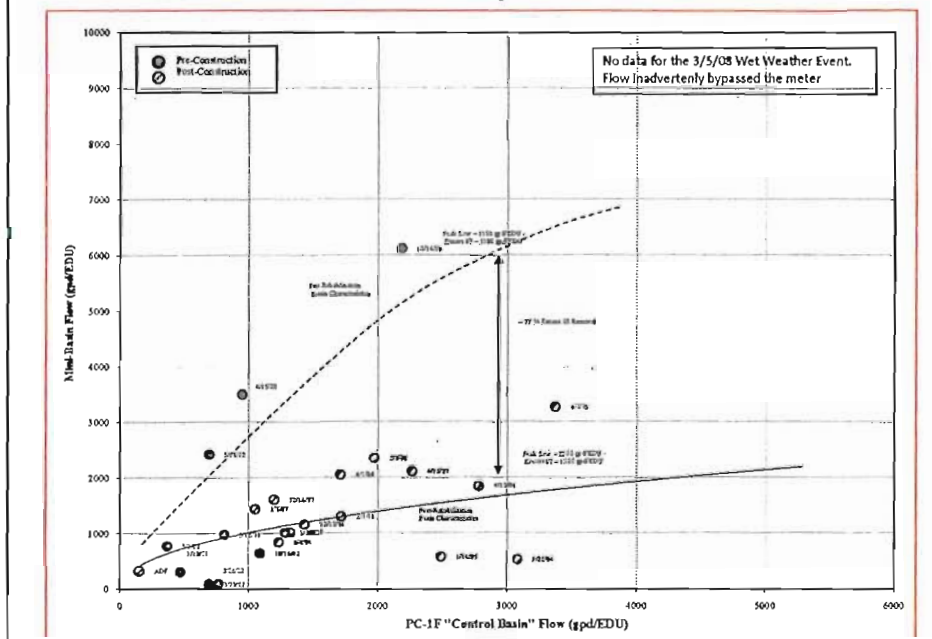
Lower Paxton Twp

- Conducted Pre- and Post Rehab Flow Monitoring
- Replaced all sewer mains and all building sewers up to house
- Building Sewer Replaced at Twp cost

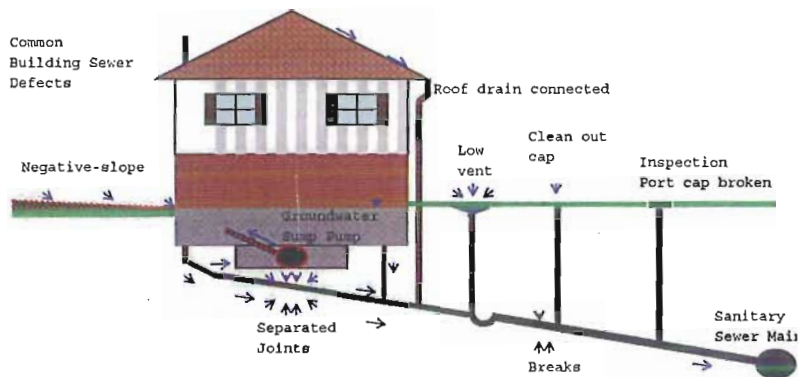
Min. Basin	Est. EDUs	Peak Peak Flow (gpd/EDU)	Estimated Peak Flow I1 (mgd)	Est. ACPVCP Maximum (feet)	Est. "Other" Maximum (feet)	Proposed Completion Date
<i>Removal</i> Priority for 2007 - 2012						
PC-3B	70% 116	7300	0.73	12,500	350	2022
PC-5C	73% 219	3800	0.61	-	n/a	2022
Priority for 2012 - 2017						
PC-1B	77% 214	4900	0.83	6,800	27,000	2022
PC-3D	58% 220	4500	0.77	15,100	2,700	2022
Priority for 2017 - 2022						
PC-1D	78% 77	4100	0.24	7,600	1,000	2022

1 - Extrapolated from Mini-Basin Characteristic Curves for a storm event equivalent to a control basin (PC-1F) wet weather flow of 4,500 gpd/EDU.

Lower Paxton Twp Basin PC-1B



Anatomy of an average sewer



How do we Classify Defects?

NASSCO: National Association of Sewer Service Companies

Grades are assigned based on potential for further deterioration, or pipe failure, on a scale of 1 through 5.

Were we need to be...

- Area-wide Testing: Test areas, identified by engineering studies as “wet” to identify defects that contribute I & I
- Time of Sale CCTV: Incorporate CCTV at time of sale to identify defects that contribute I & I.

- Go to video