

Liberty Borough

Act 537 - 10 Year Plan Annual Progress Report Form

Revision Date: January 04, 2016

Reporting Period: Eighth Year Annual Report

From January 01, 2015 to December 31, 2015

Task Description	Proposed Start Date	Actual Start Date	Required Completion Date	Actual Completion Date	Required Percent Complete	Actual Percent Completed	Estimated Cost	Comments
(A) GIS Mapping (Year 1)	Jan 01, 2008	1/1/2008	Dec. 31, Yr. 1		25%	25%	\$3,750	
GIS Mapping (Year 2)	Jan. 01, 2009		Dec. 31, Yr. 2		50%	50%	\$3,750	
GIS Mapping (Year 3)	Jan 01, 2010		Dec. 31, Yr. 3		75%	75%	\$3,750	
GIS Mapping (Year 4)	Jan 01, 2011		Dec. 31, Yr. 4		100%	100%	\$3,750	See Note in Narrative
(B) Physical survey (Year 1)	Jan 01, 2009	1/1/2008	Dec. 31, Yr. 2		25%	25%	\$16,931	
Physical survey (Year 2)	Jan 01, 2010		Dec. 31, Yr. 3		50%	50%	\$16,931	
Physical survey (Year 3)	Jan 01, 2011		Dec. 31, Yr. 4		75%	75%	\$16,931	See Note in Narrative
Physical survey (Year 4)	Jan. 01, 2012		Dec. 31, Yr. 5		100%	100%	\$16,931	
(C) Ordinance/Regulation development								
(i) Time of Sale Ordinance/Regulation	June 1, 2010	1/1/2008	November 1, Yr. 3		100%	100%	\$2,500	See Note in Narrative
(ii) Prohibit Storm Water	June 1, 2010	1/1/2008	November 1, Yr. 3		100%	100%	\$2,500	See Note in Narrative
(D) Dye Testing (Year 1)	Jan 01, 2011	2/19/2009	Dec. 31, Yr. 4		25%	5%	\$20,081	See Note in Narrative
Dye Testing (Year 2)	Jan. 01, 2012		Dec. 31, Yr. 5		50%	8%	\$20,081	
Dye Testing (Year 3)	Jan. 01, 2013		Dec. 31, Yr. 6		75%	11%	\$20,081	
Dye Testing (Year 4)	Jan. 01, 2014		Dec. 31, Yr. 7		100%	17.81%	\$20,081	
(E) Enforcement-illegal connections	Jan. 01, 2012		Dec. 31, Yr. 8		95%	100%	\$8,000	See Note in Narrative
(F) Cleaning / CCTV (Year 1)	Jan 01, 2012		Dec. 31, Yr. 5		17%	0%	\$21,500	See Note in Narrative
Cleaning / CCTV (Year 2)	Jan 01, 2013		Dec. 31, Yr. 6		34%	0%	\$21,500	
Cleaning / CCTV (Year 3)	Jan 01, 2014		Dec. 31, Yr. 7		50%	0%	\$21,500	
Cleaning / CCTV (Year 4)	Jan. 01, 2015		Dec. 31, Yr. 8		67%	0%	\$21,500	
Cleaning / CCTV (Year 5)	Jan 01, 2016		Dec. 31, Yr. 9		84%		\$21,500	
Cleaning / CCTV (Year 6)	Jan. 01, 2017		Dec. 31, Yr. 10		100%		\$21,500	
(G) On-Lot Sewage Disposal Needs report	Jan. 01, 2017		Dec. 31, Yr. 10		100%		\$10,000	
(H) Deficiency Correction Schedule	Jan. 01, 2017		Dec. 31, Yr. 10		100%	0%	\$5,000	
Extended Schedule Work							\$320,050	
Deficiency Corrections							\$600,000	
Capacity Improvements							\$76,000	
							\$996,050	

Based on the above information, is the Municipality in compliance with the approved schedule?

A, B, C, and E Yes
 D, F, and H No

If No, please attach an explanation. Attached

Municipal Engineer: *Donald M. Glenn*
Signature Title

Donald M. Glenn, PE Consulting Engineer

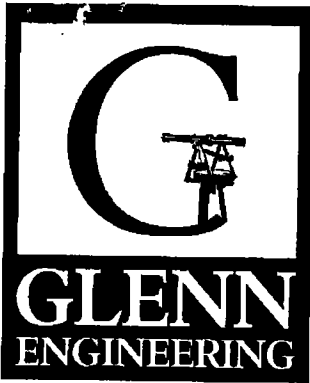
January 04, 2016
Date

ACT 537 NARRATIVE – LIBERTY BOROUGH

Eighth Year Annual Report
From January 01, 2015 to December 31, 2015

- (A) GIS Mapping:** The system map is drawn. Modifications to connectivity and other items will occur as televising progresses.
All visible manholes have been GIS located.
- (B) Physical Survey: Manhole Evaluations:** All visible manholes have been inventoried. Eighty-two (82) manholes remain as Did Not Find "DNF" and will be located when televising occurs.
Modifications may occur as buried manholes are found when televising progresses.
- (C) Ordinance/Regulation Development:** An ordinance mandating dye testing and time of sale dye testing was adopted on February 19, 2009 and has been successfully implemented.
- (D) Dye Testing:** All houses sold since February 19, 2009 have been dye tested and all failures are corrected to date.
To date 215 of the 1207 structures have been tested or 17.81 %.
- (E) Enforcement-illegal connections:** All violations have been corrected.
- (F) Cleaning / CCTV:** Cleaning and televising of the system was advertised March 2011, however, no action was taken to award a contract.
- (G) On-Lot Sewage Disposal Needs report:** No Activity at this time
- (H) Deficiency Correction Schedule:** No Activity will occur until CCTV work commences.





February 15, 2016

The Municipal Authority of the City of McKeesport
100 Atlantic Avenue
McKeesport, PA 15132

Attention: Mr. Charles R. Schultz
Operations Manager

Re: Annual Wasteload Management Report - Chapter 94
Calendar Year 2015

Dear Mr. Schultz,

Please find enclosed, for the Borough of Liberty, the Annual Wasteload Management Report, on your form, as requested by your letter dated February 4, 2016.

I trust this report will address the items requested; however, should you have any questions regarding this matter, please do not hesitate to contact me at 412-824-5672, extension 114.

Cordially,

A handwritten signature in black ink that reads 'Richard C. Hinkle'. The signature is written in a cursive style with a large, prominent 'R'.

Richard C. Hinkle
Engineering Associate

Enclosure

c: Borough of Liberty w/encl.

THE MUNICIPAL AUTHORITY OF
THE CITY OF MCKEESPORT
OPERATING YEAR 2015
WASTELOAD MANAGEMENT REPORT

Name of Municipal Authority Borough of Liberty

Street Address 2921 Liberty Way

City, State, Zip McKeesport, PA 1513

Phone number 412-678-3286

Name of Person Completing Report Richard C. Hinkle

Title of Company: Glenn Engineering and Associates, Ltd.

Street Address 14920 Route 30

City, State, Zip North Huntingdon, PA 15642

Phone number 412-824-5672, extension 114

Section I: Hydraulic and Organic Loadings

A. Size of Sewers: 8" collectors, 15" trunkline

B. Locations of Critical Area: Liberty Way at Glenn Avenue

C. Sewered population and projected hydraulic and organic load being discharged to McKeesport Authority (complete the following Table):

Year	Residential Customers	Population	Estimated Flow (gpd)	Estimated Raw Sewage BOD (lbs./day)
2015 Estimated				
2016 Estimated				
2017 Estimated		See Attachment "A"		
2018 Estimated				
2019 Estimated				
2020 Estimated				

- D. Plans for correcting hydraulically overloaded sewers (describe proposed plans to reduce or eliminate present or projected conditions): Entire collection system shall be televised and line repairs as needed to conform to the Act 537 10 Year Plan.
Televising scheduled to commence in 2016
- E. Characteristics of wastes to Wastewater treatment plant (BOD, SS, pH, Heavy Metals, etc.). Attached analysis if available. _____
Standard Domestic Characteristics. No analysis taken.
- F. Please identify proposed subdivisions and/or single family dwellings (if in the Long Run Watershed) for which the McKeesport Authority will be requested to support a Planning Module or service connection pursuant to McKeesport Authority Resolution regarding Replacement Capacity Fee.

Development/Single Family Unit	Proposed EDU's	Proposed Average Day Flow GPD	Average Day Organic Loading #D
No Liberty Borough flows accrue to the Long Run Watershed			

- G. Please identify all subdivision and/or single family dwellings newly constructed within your service area in 2015 and for which a service connection(s) was constructed:

Development/Single Family Unit	Proposed EDU's
None issued.	

- H. If your service area is restricted to one municipality, please attach a list of all building permits and/or service connection applications issued in 2015 within that municipality.
No tap permits where issued.

Section II: Industrial Wastes

Are industrial wastes discharged to your sewer systems?

Yes _____

No X

- A. Discuss your municipality's program for surveillance and monitoring of industrial waste discharges into the sewer system during the past year:

Not Applicable.

- B. Describe specific problems in the sewer system known to be caused by industrial waste discharges and summarize any steps being taken to alleviate or eliminate the problems:

Not Applicable.

- C. Important! Please attach a copy of the ordinance or regulation governing industrial waste discharges to the sewer system or a copy of amendments adopted during the past year if it has not been previously permitted.

- D. List of industries that discharge to system. (Use back of sheet if necessary)

Name: Not Applicable.

Flow: _____

Type: _____

- E. Monitoring and Surveillance Program for next five years:

Not Applicable.

- F. Program to eliminate industrial waste discharges or provide pretreatment:

Not Applicable.

- G. Provide list of industries that will be responsible for meeting pretreatment requirements:

Not Applicable.

Section III: System Condition

Provide the following information concerning your sewer system:

- A. Sewer System Conditions (are there any sections of sewer where rehabilitation or cleaning is needed, are there any portions with excessive infiltration, etc.):

Entire McKeesport sewershed is to be cleaned, televised and applicable repairs made in conformance with the Act 537 10 Year Plan. Televising and cleaning
Televising and cleaning is to begin in 2016.

- B. Describe sections of sewer where conveyance capacity is being exceeded or will be exceeded in the next five years:

Liberty Way at Glenn Ave. and along upper Liberty Way manholes surcharge.

- C. Describe your program for monitoring flows in the sewers. State if it includes periodic flow gauging or smoke and dye testing in sewers suspected of having illegal storm connections.

Dye Testing of homes under Act 537 was scheduled to start January 2011.

This task has not commenced, only resale houses are dye tested.

- D. Describe your routine maintenance programs. Indicate if on a regular basis or as-needed. List the number of employees (full or part-time) and provide a list of the equipment available for inspection and maintenance work.

Maintenance is on an "as-needed" basis by the street department.

- E. If applicable, briefly describe your program for maintenance and control of diversion chambers and indicate how often they are inspected:

No diversion chambers within the system.

- F. Describe any work being performed to reduce infiltration/inflow:

When all approved Act 537 tasks are implemented, I & I shall be addressed.

- G. If available, please submit map of sewer system.

Maps were submitted in 2001. Electronic maps in both ArcView database and Autocad formats are available for trade if requested.

Section IV: Extraordinary Monitoring and Rehabilitation

- A. Provide map showing locations of all flow meters on system.
NONE

- B. Provide map showing location of areas where frequent complaints are made.
NONE

- C. Provide descriptions of program developed to correct overloading conditions:
No overloads.

- D. Do you sample wastewater and, if so, list sampling frequency and location:
No samples taken.

Section V: Pump Station

- A. Location and condition: _____
River Road Pump Station.
Contracted service keeps this station in excellent condition.

- B. Design capacity: _____
400 GPM at 30 ft. TDH.

- C. Include in the following table a comparison of available capacity with present max. flows and projected 2-year max. flows for each station: _____
See table.

	Present Flows	Projected 2-Year Flows
Maximum	0.156	No growth expected.
Average	0.117	
Minimum	0.078	

- D. Does Pumping Station have an overflow or bypass? _____
Flood prevention overflow approved by PADEP.
-
- E. Provide schedule of enlarging stations if currently overloaded.
None, station construction in 1997.
-

Section VI: Sewer Extensions

- A. Provide the following information for each sewer system extension constructed in the past year. Attach a copy of the plot plan or a map of each sewer extension.

Development/Extension Name	Population Served	Area Served	Status (constructed, approved for the construction, proposed)
No sewer line extensions in 2015.			

Person Completing the Form: Richard C. Hinkle
 Title/Position: Engineering Associate
 Date Completed: February 15, 2016

Please return by March 7, 2016, to the following address:
Municipal Authority of the City of McKeesport
100 Atlantic Avenue, McKeesport, PA 15132

ANY MUNICIPALITY OR AUTHORITY FOR WHICH INFORMATION IS NOT RECEIVED
 WILL BE REPORTED AS SUCH IN THE WASTELOAD MANAGEMENT REPORT.

**BOROUGH OF LIBERTY
SEWER AUTHORITY REPORT
Attachment "A"**

	Residential Customers	Population @ 2.35/Unit	Actual Flow (Gallons)	Actual Flow (Gal. Per Day)	Estimated Raw Sewage BOD (lb/day)
2012 Actual	1,097 *	2,577	52,688,040 *	144,351	438
2013 Actual	1,097 *	2,578	46,403,500 *	127,133	438
2014 Actual	1,091 *	2,564	44,716,400 *	122,511	436
2015 Actual	1,087 *	2,555	43,701,700 *	119,731	434

	Residential Customers	Population @ 2.35/Unit	Projected Flow (Gallons)	Estimated Flow @ 80 Gpdpc (Gal. Per Day)	
2015 Actual	1,087	2,555	43,701,700 *	119,731	434
2016 Projected	1,088	2,557	43,701,900	204,591	435
2017 Projected	1,089	2,560	43,702,100	204,779	435
2018 Projected	1,090	2,562	43,702,300	204,967	436
2019 Projected	1,091	2,564	43,702,500	205,155	436
2020 Projected	1,092	2,567	43,702,700	205,343	436

*Liberty Borough gallonage without Glassport or Lincoln customers
For Total flows see attached worksheets

**BOROUGH OF LIBERTY
SEWER AUTHORITY REPORT
Actual Year Calculation**

Date	From:	12/16/14	03/16/15	06/16/15	09/19/15		12/16/14
	To:	03/15/15	06/15/15	09/15/15	12/15/15	=	12/15/15
		1st Quarter	2nd Quarter	3rd Quarter	4th Quarter		12 Months
Meter Book Added	Gallons:	11,745,800	12,227,200	12,542,600	11,398,800		47,914,400
Minimum Total	Gallons:	2,475,600	2,383,000	2,139,000	2,458,600	=	9,456,200
	Gallons:	14,221,400	14,610,200	14,681,600	13,857,400		57,370,600
Billing Total Number of Bills	Dollars:	\$114,482.27	\$117,612.11	\$118,186.88	\$111,552.07	=	\$461,833.33
		1,193	1,191	1,185	1,188		4,757
per 1,000	Rate:	\$8.05	\$8.05	\$8.05	\$8.05		\$8.05

Total Added	Gallons	11,745,800	12,227,200	12,542,600	11,398,800	=	47,914,400
Less Glassport Useage		256,000	243,300	278,500	272,400	=	1,050,200
Less Lincoln Useage		785,700	785,600	866,800	724,400	=	3,162,500
equals Actual	Liberty Useage	10,704,100	11,198,300	11,397,300	10,402,000	=	43,701,700

Total Added Minimum	Gallons	2,475,600	2,383,000	2,139,000	2,458,600		9,456,200
Less Glassport Added Minimum	Gallons	57,600	64,200	64,500	64,800		251,100
Less Lincoln Added Minimum	Gallons	100,700	95,300	96,400	111,500		403,900
equals Actual	Liberty Added Minimum	2,317,300	2,223,500	1,978,100	2,282,300		8,801,200

Total Accounts		1,193	1,191	1,185	1,188		1,189
Less Glassport Accounts		28	28	28	28		Average 28
Less Lincoln Accounts		74	74	74	74		Average 74
equals Actual	Liberty Accounts	1,091	1,089	1,083	1,086	=	Average 1,087

**BOROUGH OF LIBERTY
SEWER AUTHORITY REPORT
Actual Year Calculation**

Date	From:	12/16/13	03/16/14	06/16/14	09/19/14		12/16/13
	To:	03/15/14	06/15/14	09/15/14	12/15/14	=	12/15/14
		1st Quarter	2nd Quarter	3rd Quarter	4th Quarter		2014 Year Actual
Meter Book Added	Gallons:	12,198,400	12,406,300	12,356,400	11,867,000		48,828,100
Minimum Total	Gallons:	2,315,000	2,260,600	2,329,000	2,484,200	=	9,388,800
	Gallons:	14,513,400	14,666,900	14,685,400	14,351,200		58,216,900
Billing Total	Dollars:	\$115,381.53	\$116,601.86	\$116,748.93	\$114,092.04	=	\$462,824.36
Total Number of Bills		1,194	1,186	1,193	1,197		4,770
per 1,000	Rate:	\$7.95	\$7.95	\$7.95	\$7.95		\$7.95

Total	Gallons	12,198,400	12,406,300	12,356,400	11,867,000	=	48,828,100
Less Glassport	Useage	275,100	283,400	214,800	254,300	=	1,027,600
Less Lincoln	Useage	765,000	795,200	793,900	730,000	=	3,084,100
equals Actual	Liberty Useage	11,158,300	11,327,700	11,347,700	10,882,700	=	44,716,400

Total Added	Minimum Gallons	2,315,000	2,260,600	2,329,000	2,484,200		9,388,800
Less Glassport	Added Minimum Gallons	47,400	55,500	77,900	65,000		245,800
						Average Number of Minimums	16.00
Less Lincoln	Added Minimum Gallons	106,500	119,800	109,600	116,400		452,300
						Average Number of Minimums	37.50
equals Actual	Liberty Added Minimum Gallons	2,161,100	2,085,300	2,141,500	2,302,800		8,690,700

Total	Accounts	1,194	1,186	1,193	1,197		Average 1,193
Less Glassport	Accounts	28	28	28	28		Average 28
Less Lincoln	Accounts	75	75	73	73		Average 74
equals Actual	Liberty Accounts	1,091	1,083	1,092	1,096	=	1,091



January 5, 2016

Municipal Authority of the City of McKeesport
100 Atlantic Avenue
McKeesport, PA 15132

Attention: Chuck Schultz, Superintendent

Re: Act 537 Annual Progress Report - Borough of East McKeesport

Dear Mr. Schultz:

I am pleased to forward the eighth Annual Act 537 Report submitted on behalf of the Borough of East McKeesport for the year 2015.

I trust the enclosed form does address the tasks completed to date, however, should you wish any modifications or additional information, please do not hesitate to contact me at 412-824-5672, extension 111 or at susang@glennengr.com.

Cordially,

Donald M. Glenn, P.E.
Borough Engineer

Enclosure

c: Borough of East McKeesport

Revision Date: January 05, 2016

Reporting Period: Eighth Year Annual Report

From January 01, 2015 to December 31, 2015

Task Description	Proposed Start Date	Actual Start Date	Required Completion Date	Actual Completion Date	Required Percent Complete	Actual Percent Completed	Estimated Cost	Comments
(A) GIS Mapping (Year 1)	Jan 01, 2008	1/1/2008	Dec 31, Yr. 1		25%	25%	\$2,250	
GIS Mapping (Year 2)	Jan. 01, 2009		Dec. 31, Yr. 2		50%	50%	\$2,250	
GIS Mapping (Year 3)	Jan. 01, 2010		Dec. 31, Yr. 3		75%	95%	\$2,250	
GIS Mapping (Year 4)	Jan. 01, 2011		Dec. 31, Yr. 4		100%	100%	\$2,250	See Note in Narrative
(B) Physical survey (Year 1)	Jan. 01, 2009	1/1/2008	Dec. 31, Yr. 2		25%	50%	\$7,725	
Physical survey (Year 2)	Jan. 01, 2010		Dec. 31, Yr. 3		50%	78%	\$7,725	
Physical survey (Year 3)	Jan. 01, 2011		Dec. 31, Yr. 4		75%	97%	\$7,725	See Note in Narrative
Physical survey (Year 4)	Jan. 01, 2012		Dec. 31, Yr. 5		100%	100%	\$7,725	
(C) Ordinance/Regulation development								
(i) Time of Sale Ordinance/Regulation	June 1, 2010		November 1, Yr. 2	11/1/204	100%	100%	\$0	See Note in Narrative
(ii) Prohibit Storm Water	June 1, 2010		November 1, Yr. 2	11/1/2004	100%	100%	\$0	See Note in Narrative
(D) Dye Testing (Year 1)	Jan. 01, 2011	1/1/2008	Dec. 31, Yr. 4		25%	100%	\$4,750	See Note in Narrative
Dye Testing (Year 2)	Jan. 01, 2012		Dec. 31, Yr. 5		50%	100%	\$4,750	
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Dye Testing (Year 4)	Jan. 01, 2014		Dec. 31, Yr. 7		100%	100%	\$4,750	
(E) Enforcement-illegal connections	Jan. 01, 2012		Dec. 31, Yr. 8		95%	95%	\$2,000	
(F) Cleaning / CCTV (Year 1)	Jan. 01, 2012	1/1/2008	Dec. 31, Yr. 5		17%	100%	\$5,933	See Note in Narrative
Cleaning / CCTV (Year 2)	Jan. 01, 2013		Dec. 31, Yr. 6		34%	100%	\$5,933	
Cleaning / CCTV (Year 3)	Jan. 01, 2014		Dec. 31, Yr. 7		50%	100%	\$5,933	
Cleaning / CCTV (Year 4)	Jan. 01, 2015		Dec. 31, Yr. 8		67%	100%	\$5,933	
Cleaning / CCTV (Year 5)	Jan. 01, 2016		Dec. 31, Yr. 9		84%		\$5,933	
Cleaning / CCTV (Year 6)	Jan. 01, 2017		Dec. 31, Yr. 10		100%		\$5,933	
(G) Deficiency Correction Schedule	Jan. 01, 2017		Dec. 31, Yr. 10		100%	100%	\$5,000	
Extended Schedule Work							\$101,500	
Deficiency Corrections					100%		\$224,250	ESTIMATE
Capacity Improvements							\$82,000	ESTIMATE
							\$407,750	

Based on the above information, is the Municipality in compliance with the approved schedule?

YES

(Yes / No)

If No, please attach an explanation. Attached

Municipal Engineer:


Signature / Title

Donald M. Glenn, PE

Consulting Engineer

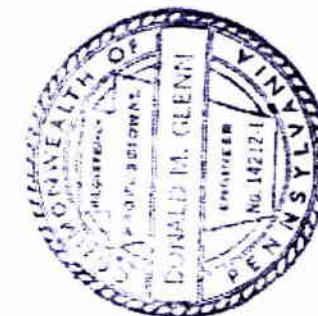
January 05, 2016

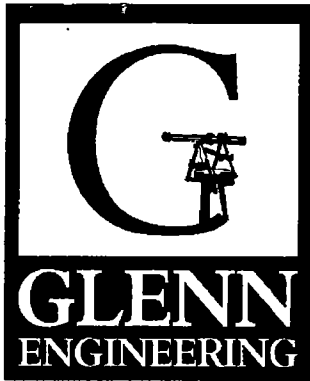
Date

ACT 537 NARRATIVE – EAST McKEESPORT BOROUGH

Eighth Year Annual Report
From January 01, 2015 to December 31, 2015

- (A) GIS Mapping:** The system map is drawn. Modifications to connectivity and other items will occur as televising progresses. The completion of the "SanPipe" database is in progress.
- (B) Physical Survey: Manhole Evaluations:**
The accessible manholes have been GPS located and inventoried. The Borough completed a manhole raising contract in 2012. These manholes have been added to the inventory.
- (C) Ordinance / Regulation Development:** Council adopted the required ordinance on November 1, 2004 and has enforced same. All structures have been dye tested.
- (D) Dye Testing:** All structures in the McKeesport sewershed have been dye tested.
- (E) Enforcement of illegal connections:** Initially thirty-six (36) violations were noted with a 95% correction list to date. The remaining violators were cited before the Local Magistrate.
- (F) Cleaning / CCTV:** A contract was awarded in 2011 to CCTV the McKeesport sewershed and completed in August. This task is now 100% completed.
- (G) Deficiency Corrections:** The final phase of Deficiency Repairs was completed in 2014.





February 15, 2016

The Municipal Authority of the City of McKeesport
100 Atlantic Avenue
McKeesport, PA 15132

Attention: Charles R. Schultz
Operations Manager

Re: Annual Wasteload Management Report - Chapter 94
Calendar Year 2015

Dear Mr. Schultz,

Please find enclosed, for the Borough of East McKeesport, the Annual Wasteload Management Report, on your form, as requested by your letter dated February 4, 2016.

I trust this report will address the items requested; however, should you have any questions regarding this matter, please do not hesitate to contact me at 412-824-5672, extension 114.

Cordially,

A handwritten signature in black ink that reads 'Richard C. Hinkle'. The signature is written in a cursive style.

Richard C. Hinkle
Engineering Associate

Enclosure

c: Borough of East McKeesport w/encl.

THE MUNICIPAL AUTHORITY OF
THE CITY OF MCKEESPORT
OPERATING YEAR 2015
WASTELOAD MANAGEMENT REPORT

Name of Municipal Authority East McKeesport Borough

Street Address 907 Florence Avenue

City, State, Zip East McKeesport, PA 15035

Phone number 412-824-2531

Name of Person Completing Report Richard C. Hinkle

Title of Company: Glenn Engineering and Associates, Ltd.

Street Address 14920 Route 30

City, State, Zip North Huntingdon, PA 15642

Phone number 412-824-5672, extension 114

Section I: Hydraulic and Organic Loadings

A. Size of Sewers: 18"=1,100 ft; 15"-3,910 ft; 12"=3,840 ft; 10"-7,660' ft 8"=34,800 ft

B. Locations of Critical Area: None within the borough.

C. Sewered population and projected hydraulic and organic load being discharged to McKeesport Authority (complete the following Table):

Year	Residential Customers	Population	Estimated Flow (gpd)	Estimated Raw Sewage BOD (lbs./day)
2015 Actual				
2016 Estimated				
2017 Estimated				
2018 Estimated		"See Attachment A"		
2019 Estimated				
2020 Estimated				

D. Plans for correcting hydraulically overloaded sewers (describe proposed plans to reduce or eliminate present or projected conditions): The entire collection system
has been televised and the final phase of Deficiency Repairs where completed in 2014.

E. Characteristics of wastes to Wastewater treatment plant (BOD, SS, pH, Heavy Metals, etc.). Attached analysis if available. _____
Standard Domestic Characteristics. No analysis taken.

F. Please identify proposed subdivisions and/or single family dwellings (if in the Long Run Watershed) for which the McKeesport Authority will be requested to support a Planning Module or service connection pursuant to McKeesport Authority Resolution regarding Replacement Capacity Fee.

Development/Single Family Unit	Proposed EDU's	Proposed Average Day Flow GPD	Average Day Organic Loading #/D
None of the East McKeesport Borough sewage flows accrue to the Long Run Watershed.			

G. Please identify all subdivision and/or single family dwellings newly constructed within your service area in 2015 and for which a service connection(s) was constructed:

Development/Single Family Unit	Proposed EDU's
None issued.	

H. If your service area is restricted to one municipality, please attach a list of all building permits and/or service connection applications issued in 2015 within that municipality.
No permits where issued.

Section II: Industrial Wastes

Are industrial wastes discharged to your sewer systems?

Yes _____

No X

- A. Discuss your municipality's program for surveillance and monitoring of industrial waste discharges into the sewer system during the past year:

Not Applicable.

- B. Describe specific problems in the sewer system known to be caused by industrial waste discharges and summarize any steps being taken to alleviate or eliminate the problems:

Not Applicable.

- C. Important! Please attach a copy of the ordinance or regulation governing industrial waste discharges to the sewer system or a copy of amendments adopted during the past year if it has not been previously permitted.

- D. List of industries that discharge to system. (Use back of sheet if necessary)

Name: Not Applicable.

Flow: _____

Type: _____

- E. Monitoring and Surveillance Program for next five years:

Not Applicable.

- F. Program to eliminate industrial waste discharges or provide pretreatment:

Not Applicable.

- G. Provide list of industries that will be responsible for meeting pretreatment requirements:

Not Applicable.

Section III: System Condition

Provide the following information concerning your sewer system:

- A. Sewer System Conditions (are there any sections of sewer where rehabilitation or cleaning is needed, are there any portions with excessive infiltration, etc.):

There are no known areas. The entire McKeesport sewershed was cleaned and televised.

Applicable repairs have been made in conformance with the Act 537 10 Year Plan.

- B. Describe sections of sewer where conveyance capacity is being exceeded or will be exceeded in the next five years:

None are known to exist. There are no projected exceedance areas expected.

- C. Describe your program for monitoring flows in the sewers. State if it includes periodic flow gauging or smoke and dye testing in sewers suspected of having illegal storm connections.

Dye testing was completed in 2000. Resale requires inspections. All Act 537 tasks shall be implemented according to the approved schedules.

- D. Describe your routine maintenance programs. Indicate if on a regular basis or as-needed. List the number of employees (full or part-time) and provide a list of the equipment available for inspection and maintenance work.

Maintenance is on an "as-needed" basis by the street department.

- E. If applicable, briefly describe your program for maintenance and control of diversion chambers and indicate how often they are inspected:

No diversion chambers within the system.

- F. Describe any work being performed to reduce infiltration/inflow:

All approved Act 537 tasks will be implemented either on or before scheduled. Entire system has been televised, cleaned and repairs made as warranted.

- G. If available, please submit map of sewer system.

Maps were submitted in 2000. Electronic Maps are available in Arcview format should the MACM be interested in a trade.

Section IV: Extraordinary Monitoring and Rehabilitation

- A. Provide map showing locations of all flow meters on system.
NONE

- B. Provide map showing location of areas where frequent complaints are made.
NONE

- C. Provide descriptions of program developed to correct overloading conditions:
No overloads.

- D. Do you sample wastewater and, if so, list sampling frequency and location:
No samples taken.

Section V: Pump Station

- A. Location and condition: _____
NONE

- B. Design capacity: _____
Not Applicable.

- C. Include in the following table a comparison of available capacity with present max. flows and projected 2-year max. flows for each station: _____
Not Applicable.

	Present Flows	Projected 2-Year Flows
Maximum		
Average	Not Applicable	
Minimum		

D. Does Pumping Station have an overflow or bypass? _____
Not Applicable.

E. Provide schedule of enlarging stations if currently overloaded.
Not Applicable.

Section VI: Sewer Extensions

A. Provide the following information for each sewer system extension constructed in the past year. Attach a copy of the plot plan or a map of each sewer extension.

Development/Extension Name	Population Served	Area Served	Status (constructed, approved for the construction, proposed)
No sewer line extensions in 2015.			

Person Completing the Form: Richard C. Hinkle

Title/Position: Engineering Associate

Date Completed: February 15, 2016

Please return by March 7, 2016, to the following address:

**Municipal Authority of the City of McKeesport
 100 Atlantic Avenue, McKeesport, PA 15132**

**ANY MUNICIPALITY OR AUTHORITY FOR WHICH INFORMATION IS NOT RECEIVED
 WILL BE REPORTED AS SUCH IN THE WASTELOAD MANAGEMENT REPORT.**

BOROUGH OF EAST McKEESPORT

ATTACHMENT A

For the
ANNUAL CHAPTER 94 WASTELOAD MANAGEMENT REPORT
 to
The Municipal Authority of the City of Mckeesport

	Residential Customers	Population @ 2.13/Unit	Actual Flow (Gallons)	Actual Flow (Gal. Per Day)	Estimated Raw Sewage BOD (lb/day)
1 Actual	236	503	13,693,000	37,515	85
2011 Actual	237	505	13,062,250	35,787	86
2012 Actual	237	505	12,572,000	34,444	86
2013 Actual	237	505	12,572,000	34,444	86
2014 Actual	237	505	6,478,671	17,750	86
2015 Estimated	237	505	11,438,731	31,339	86
			Projected Flow (Gal. Per Day)	Estimated Flow @ 90 Gpdpc (Gal. Per Day)	
2016 Projected	238	507	31,539	45,625	86
2017 Projected	239	509	31,739	45,816	87
2018 Projected	240	511	31,939	46,008	87
2019 Projected	241	513	32,139	46,200	87
2020 Projected	242	515	32,339	46,391	88
2021 Projected	243	518	32,539	46,583	88



January 5, 2016

Municipal Authority of the City of McKeesport
100 Atlantic Avenue
McKeesport, PA 15132

Attention: Chuck Schultz, Superintendent

Re: Act 537 Annual Progress Report - NVTSA

Dear Mr. Schultz:

I am pleased to forward the eighth Annual Act 537 Report submitted on behalf of the North Versailles Township Sanitary Authority for the year 2015.

I trust the enclosed form does address the tasks completed to date, however, should you wish any modifications or additional information, please do not hesitate to contact me at 412-824-5672, extension 111 or at susang@glennengr.com.

Cordially,

A handwritten signature in black ink, appearing to read 'Donald M. Glenn', written over a horizontal line.

Donald M. Glenn, P.E.
Borough Engineer

Enclosure

c: NVTSA

North Versailles Township

Act 537 - 10 Year Plan Annual Progress Report Form

Revision Date: January 05, 2016

Reporting Period: Eighth Year Annual Report

From January 01, 2015 to December 31, 2015

Task Description	Proposed Start Date	Actual Start Date	Required Completion Date	Actual Completion Date	Required Percent Complete	Actual Percent Completed	Estimated Cost	Comments
(A) GIS Mapping (Year 1)	Jan. 01, 2008	1/1/2008	Dec. 31, Yr. 1		25%	95%	\$5,115	
GIS Mapping (Year 2)	Jan. 01, 2009		Dec. 31, Yr. 2		50%	95%	\$5,115	
GIS Mapping (Year 3)	Jan. 01, 2010		Dec. 31, Yr. 3		75%	95%	\$5,115	
GIS Mapping (Year 4)	Jan. 01, 2011		Dec. 31, Yr. 4		100%	100%	\$5,115	See Note in Narrative
(B) Physical survey (Year 1)	Jan. 01, 2009	1/1/2008	Dec. 31, Yr. 2		25%	50%	\$41,850	
Physical survey (Year 2)	Jan. 01, 2010		Dec. 31, Yr. 3		50%	50%	\$41,850	
Physical survey (Year 3)	Jan. 01, 2011		Dec. 31, Yr. 4		75%	75%	\$41,850	See Note in Narrative
Physical survey (Year 4)	Jan. 01, 2012		Dec. 31, Yr. 5		100%	100%	\$41,850	
(C) Ordinance/Regulation development								
(i) Time of Sale Ordinance/Regulation	June 1, 2010	8/17/1998	November 1, Yr. 3	1/20/2004	100%	100%	\$0	See Note in Narrative
(ii) Prohibit Storm Water	June 1, 2010	8/17/1998	November 1, Yr. 3	1/20/2004	100%	100%	\$0	See Note in Narrative
(D) Dye Testing (Year 1)	Jan. 01, 2011	1/1/2008	Dec. 31, Yr. 4	12/31/2008	25%	99%	\$30,050	See Note in Narrative
Dye Testing (Year 2)	Jan. 01, 2012		Dec. 31, Yr. 5		50%	100%	\$30,050	
Dye Testing (Year 3)	Jan. 01, 2013		Dec. 31, Yr. 6		75%	100%	\$30,050	
Dye Testing (Year 4)	Jan. 01, 2014		Dec. 31, Yr. 7		100%	100%	\$30,050	
(E) Enforcement-illegal connections	Jan. 01, 2012		Dec. 31, Yr. 8		95%	95%	\$2,000	
(F) Cleaning / CCTV (Year 1)	Jan. 01, 2012	1/1/2008	Dec. 31, Yr. 5		17%	70%	\$54,800	See Note in Narrative
Cleaning / CCTV (Year 2)	Jan. 01, 2013		Dec. 31, Yr. 6		34%	75%	\$54,800	
Cleaning / CCTV (Year 3)	Jan. 01, 2014		Dec. 31, Yr. 7		50%	100%	\$54,800	
Cleaning / CCTV (Year 4)	Jan. 01, 2015		Dec. 31, Yr. 8		67%	100%	\$54,800	
Cleaning / CCTV (Year 5)	Jan. 01, 2016		Dec. 31, Yr. 9		84%		\$54,800	
Cleaning / CCTV (Year 6)	Jan. 01, 2017		Dec. 31, Yr. 10		100%		\$54,800	
(G) Deficiency Correction Schedule	Jan. 01, 2017		Dec. 31, Yr. 10		100%		\$5,000	
Extended Schedule Work							\$643,860	
Deficiency Corrections						\$1,133,098	\$2,027,500	
Capacity Improvements							\$155,760	
							\$2,827,120	

Based on the above information, is the Municipality in compliance with the approved schedule?

Yes

(Yes / No)

If No, please attach an explanation. Attached

Municipal Engineer



Donald M. Glenn, PE

Consulting Engineer

January 05, 2016

Date

ACT 537 NARRATIVE – NORTH VERSAILLES TOWNSHIP

Eighth Year Annual Report

From January 01, 2015 to December 31, 2015

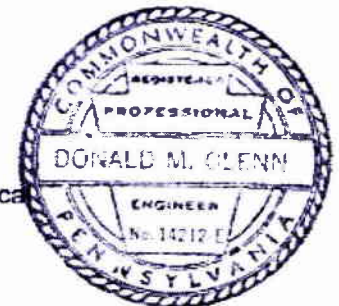
(A) GIS Mapping: The system map is drawn. Modifications to connectivity and other items occur as televising progresses.

(B) Physical Survey: Manhole Evaluations: The visible manholes have been GIS located. This task has been completed in 2012 as required.

(C) Ordinance/Regulation Development: North Versailles Township adopted the required ordinance on January 20, 2004 and is in 100% compliance.

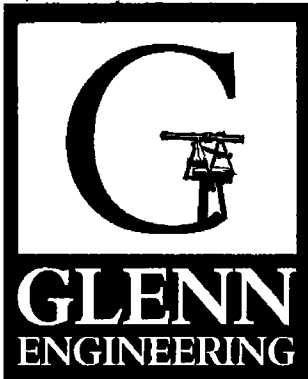
(D) Dye Testing: This item has been completed by in-house force account labor.

(E) Enforcement-illegal connections: The staff continues efforts with the solicitor to have violators pursued at the local magistrates office.



(F) Cleaning / CCTV: Although not due until 2012, this task commenced in 2010. The Authority purchased a CCTV truck in 2008 and will continue this effort until all lines are completed. To date 100% of the Crooked Run Basin has been cleaned & televised. The TV crew has also completed the cleaning & televising of the Jacks Run Basin.

(G) Deficiency Correction Schedule: A Phase I contract for lining repairs to undertake deficiency repairs has been completed. In 2015, Phase II through Phase V deficiency repairs are also completed. Accordingly, all deficiency repairs are completed.



February 17, 2015

The Municipal Authority of the City of McKeesport
100 Atlantic Avenue
McKeesport, PA 15132

Attention Mr. Charles R. Schultz
Superintendent

Re: Annual Wasteload Management Report - Chapter 94
Calendar Year 2015

Dear Mr. Schultz,

Please find enclosed, for the North Versailles Township Sanitary Authority, the Annual Wasteload Management Report (Chapter 94), on your form, as requested by your letter dated February 4, 2016.

I trust this report will address the items requested; however, should you have any questions regarding this matter, please do not hesitate to contact me at 412-824-5672, extension 114.

Cordially,


Richard C. Hinkle
Engineering Associate

Enclosure

c: North Versailles Township Sanitary Authority w/encl.

THE MUNICIPAL AUTHORITY OF
THE CITY OF MCKEESPORT
OPERATING YEAR 2015
WASTELOAD MANAGEMENT REPORT

Name of Municipal Authority North Versailles Township Sanitary Authority

Street Address 1401 Greensburg Avenue

City, State, Zip North Versailles, PA 15137

Phone number 412-823-0629

Name of Person Completing Report Richard C. Hinkle

Title of Company: Glenn Engineering and Associates, Ltd.

Street Address 14920 Route 30

City, State, Zip North Huntingdon, PA 15642

Phone number 412-824-5672, extension 114

Section I: Hydraulic and Organic Loadings

A. Size of Sewers: Foster-8";Jacks Run-12";Heckman-8"; McKee-12"; Gun Club-8"; Fifth-24"

B. Locations of Critical Area: Last segment at each connection.

C. Sewered population and projected hydraulic and organic load being discharged to McKeesport Authority (complete the following Table):

Year	Residential Customers	Population	Estimated Flow (gpd)	Estimated Raw Sewage BOD (lbs./day)
2015 Actual				
2016 Estimated				
2017 Estimated				
2018 Estimated		"See Attachment A"		
2019 Estimated				
2020 Estimated				

D. Plans for correcting hydraulically overloaded sewers (describe proposed plans to reduce or eliminate present or projected conditions): _____

There are no overloaded sewers are known or currently projected.

All Act 537 tasks shall be implemented according to the approved schedule.

E. Characteristics of wastes to Wastewater treatment plant (BOD, SS, pH, Heavy Metals, etc.). Attached analysis if available. _____

Standard residential characteristics. No analysis has been performed.

F. Please identify proposed subdivisions and/or single family dwellings (if in the Long Run Watershed) for which the McKeesport Authority will be requested to support a Planning Module or service connection pursuant to McKeesport Authority Resolution regarding Replacement Capacity Fee.

Development/Single Family Unit	Proposed EDU's	Proposed Average Day Flow GPD	Average Day Organic Loading #/D
"See Attachment B"			

G. Please identify all subdivision and/or single family dwellings newly constructed within your service area in 2015 and for which a service connection(s) was constructed:

Development/Single Family Unit	Proposed EDU's
"See Attachment B"	

H. If your service area is restricted to one municipality, please attach a list of all building permits and/or service connection applications issued in 2015 within that municipality.
"See Attachment C"

Section II: Industrial Wastes

Are industrial wastes discharged to your sewer systems?

Yes _____ No X

A. Discuss your municipality's program for surveillance and monitoring of industrial waste discharges into the sewer system during the past year:

Not Applicable.

B. Describe specific problems in the sewer system known to be caused by industrial waste discharges and summarize any steps being taken to alleviate or eliminate the problems:

Not Applicable.

C. Important! Please attach a copy of the ordinance or regulation governing industrial waste discharges to the sewer system or a copy of amendments adopted during the past year if it has not been previously permitted.

Not Applicable.

D. List of industries that discharge to system. (Use back of sheet if necessary)

Name: Not Applicable.

Flow: _____

Type: _____

E. Monitoring and Surveillance Program for next five years:

Not Applicable.

F. Program to eliminate industrial waste discharges or provide pretreatment:

Not Applicable.

G. Provide list of industries that will be responsible for meeting pretreatment requirements:

Not Applicable.

Section III: System Condition

Provide the following information concerning your sewer system:

- A. Sewer System Conditions (are there any sections of sewer where rehabilitation or cleaning is needed, are there any portions with excessive infiltration, etc.):

Jacks Run Sewershed and Crooked Run Sewershed have been
cleaned and televised. All 4 & 5 Deficiency Repairs have been completed.

- B. Describe sections of sewer where conveyance capacity is being exceeded or will be exceeded in the next five years:

None are known to exist. There are no projected exceedance areas expected.

- C. Describe your program for monitoring flows in the sewers. State if it includes periodic flow gauging or smoke and dye testing in sewers suspected of having illegal storm connections.

There is no ongoing flow monitoring.

All known illegal connections have been removed.

- D. Describe your routine maintenance programs. Indicate if on a regular basis or as-needed. List the number of employees (full or part-time) and provide a list of the equipment available for inspection and maintenance work.

Vactor/jet truck and CCTV truck are owned by the
Authority. Repairs occur as needed. All 4 & 5 Deficiency Repairs are completed.

CCTV shall re-occur in 5 years.

- E. If applicable, briefly describe your program for maintenance and control of diversion chambers and indicate how often they are inspected:

None exist in the system.

- F. Describe any work being performed to reduce infiltration/inflow:

All approved Act 537 tasks shall be implemented either on or before schedule. The entire
system has been televised, cleaned and repairs made as warranted.

- G. If available, please submit map of sewer system.

Maps were submitted in 2000. Electronic maps in both ArcView database and
Autocad formats are available for trade if requested.

Section IV: Extraordinary Monitoring and Rehabilitation

- A. Provide map showing locations of all flow meters on system.
None exist.

- B. Provide map showing location of areas where frequent complaints are made.
None exist.

- C. Provide descriptions of program developed to correct overloading conditions:
No overloads are reported.

- D. Do you sample wastewater and, if so, list sampling frequency and location:
No sampling.

Section V: Pump Station

- A. Location and condition: _____
None exist in the McKeesport sewershed.

- B. Design capacity: _____
Not Applicable.

- C. Include in the following table a comparison of available capacity with present max. flows and projected 2-year max. flows for each station: _____
Not Applicable.

	Present Flows	Projected 2-Year Flows
Maximum		
Average	Not Applicable	
Minimum		

D. Does Pumping Station have an overflow or bypass? _____
Not Applicable.

E. Provide schedule of enlarging stations if currently overloaded.
Not Applicable.

Section VI: Sewer Extensions

A. Provide the following information for each sewer system extension constructed in the past year. Attach a copy of the plot plan or a map of each sewer extension.

Development/Extension Name	Population Served	Area Served	Status (constructed, approved for the construction, proposed)
No extensions constructed in 2015.			

Person Completing the Form: Richard C. Hinkle

Title/Position: Engineering Associate

Date Completed: February 17, 2015

Please return by March 7, 2016, to the following address:

**Municipal Authority of the City of McKeesport
 100 Atlantic Avenue, McKeesport, PA 15132**

**ANY MUNICIPALITY OR AUTHORITY FOR WHICH INFORMATION IS NOT RECEIVED
 WILL BE REPORTED AS SUCH IN THE WASTELOAD MANAGEMENT REPORT.**

NORTH VERSAILLES TOWNSHIP SANITARY AUTHORITY

ANNUAL CHAPTER 94 WASTELOAD MANAGEMENT REPORT

to

The Municipal Authority of the City of Mckeesport

for the

2015 OPERATING YEAR

LIST OF ATTACHMENTS

ATTACHMENT "A": Per Section I

C: Hydraulic and Organic Loadings
Current and Five Year Projection

ATTACHMENT "B": Per Section I

F: Proposed Subdivisions in Long Run Sewershed
G: Proposed Subdivisions in McKeepport Service Area

ATTACHMENT "C": Per Section I

H: Tap Permits issued this operating year

NORTH VERSAILLES TOWNSHIP SANITARY AUTHORITY

ATTACHMENT A

For the
ANNUAL CHAPTER 94 WASTELOAD MANAGEMENT REPORT
 to
 The Municipal Authority of the City of McKeesport

SECTION I Hydraulic and Organic Loadings

		LONG RUN WATERSHED				
		Fifth Ave.	Foster Road	McKee Road	Jacks Run	Gun Club
A:	Sizes of Sewers	24"	8"	12"	12"	8"
B:	Location of Critical Areas:	Last Pipe Segment before connection with adjoining Municipality				
		<u>TOTAL</u>				
C:	No. of Residential Customers	No. of Residential Customers				2,925
		Population based on 2.38 persons / household				6,962
		No. of Commercial Customers				28
		Total Number of Active Accounts				2,953

Note: Total Gallonage Billed to McKeesport for the 2015 Calendar Year: 164,389,000 Gallons
 equals 450,381 Gpd
 including Commercial

Actual Consumption

1st Quarter	40,865
2nd Quarter	40,195
3rd Quarter	42,756
4th Quarter	40,573
	164,389

PROJECTIONS		RESIDENTIAL		Estimated Flow @ 80 Gpdpc (gpd)	Estimated Raw Sewage BOD (lb/day)	MAXIMUM Flow (gpd)
		Customers	Population @ 2.38 per Unit			
Current Yr.	2015	2,925	6,962	556,920	1,183	1,740,375
	Estimated 2016	2,930	6,973	557,872	1,185	1,743,350
	Estimated 2017	2,935	6,985	509,077	1,188	1,746,325
	Estimated 2018	2,940	6,997	559,776	1,190	1,749,300
	Estimated 2019	2,945	7,009	560,728	1,192	1,752,275
	Estimated 2020	2,950	7,021	561,680	1,194	1,755,250

NORTH VERSAILLES TOWNSHIP SANITARY AUTHORITY

ATTACHMENT B

For the
ANNUAL CHAPTER 94 WASTELOAD MANAGEMENT REPORT
to
The Municipal Authority of the City of Mckeesport

SECTION I Hydraulic and Organic Loadings

F: Proposed Subdivisions in the Long Run Watershed

	1) <u>Rte 30 Pittsburgh Plaza East</u>			
	a: restaurant	29 Edu's		
	b: restaurant	45 Edu's		
	c: retail building	9 Edu's		<u>83 Edu's</u>
	2) <u>Route 48 South - Plisco</u>			
Purchased 8/2001	a: residential	12 Edu's		
Purchased 12/2002	b: residential	30 Edu's		
Purchased 12/2003	c: residential	60 Edu's		<u>102 Edu's</u>
	3) <u>Redinger Plan of Lots</u>			
Planning Module approved 1/27/04	a: residential - McKee Road	3 Edu's		<u>3 Edu's</u>
Projected Future Growth:				<u>188 Edu's</u>

H: Proposed Subdivisions in remainder of Mckeesport Service Area

	1) <u>General Growth</u>			
	a: residential	10 Edu's		<u>10 Edu's</u>
	b: Commercial	10 Edu's		
	Denning Way Senior	40 Edu's		<u>50 Edu's</u>
Projected Future Growth:				<u>60 Edu's</u>

**NORTH VERSAILLES TOWNSHIP SANITARY AUTHORITY
ATTACHMENT C
SEWAGE TAP PERMITS ISSUED**

RESIDENTIAL PERMITS

SERVICE AREA	DATE ISSUED	PERMIT #	HOUSE #	STREET	OWNER
-------------------------	------------------------	---------------------	--------------------	---------------	--------------

There were no residential building permits
issued in the McKeesport Sewer Shed in 2015.

COMMERCIAL PERMITS

SERVICE AREA	DATE ISSUED	PERMIT #	BLDG. #	STREET	OWNER
-------------------------	------------------------	---------------------	--------------------	---------------	--------------

There were no commercial building permits
issued in the McKeesport Sewer Shed in 2015.



GATEWAY

By Call Us First, We'll Save You Time

THE GATEWAY ENGINEERS, INC.

400 HOLIDAY DRIVE, SUITE 300
PITTSBURGH, PA 15210-2727
412 921 4030 FAX
412 921 9960 FAX

www.gatewayengineers.com

February 29, 2016
C-12916-1600

Municipal Authority of the City of McKeesport
100 Atlantic Avenue
McKeesport, PA 15132

ATT: Chuck Schultz

RE: 2015 Wasteload Management Report
Act 537 Progress Report
Borough of Versailles

Dear Mr. Schultz:

Enclosed is the 2015 annual Wasteload Management Report and Act 537 Progress Report for the Borough of Versailles.

If you have any questions concerning this matter, please do not hesitate to call.

Sincerely,
THE GATEWAY ENGINEERS, INC.



Michael S. Glister, P.E.
Project Manager

Enclosure

cc: Reba M. Schultz, Borough Secretary

G:\Projects\12000\12916 O&M Program - Act 537 Yearly Ch 91 WLM Report 2015 2015 Cover Letter.docx

A FULL SERVICE CIVIL ENGINEERING FIRM

MISSION STATEMENT
TO HELP OUR CLIENTS REACH A HIGHER
LEVEL OF SUCCESS THROUGH KNOWLEDGE,
EXPERIENCE AND RESPONSIVENESS

THE MUNICIPAL AUTHORITY OF
THE CITY OF MCKEESPORT
OPERATING YEAR 2015
WASTELOAD MANAGEMENT REPORT

Name of Municipal Authority Versailles Borough
 Street Address 5100 Walnut Street
 City, State, Zip McKeesport, PA 15132
 Phone number 412-751-3922

Name of Person Completing Report Michael S. Glister, P.E.
 Title of Company: The Gateway Engineers, Inc.
 Street Address 400 Holiday Drive, Suite 300
 City, State, Zip Pittsburgh, PA 15220
 Phone number 412-921-4030 Ext. 172

Section I: Hydraulic and Organic Loadings

- A. Size of Sewers: 8" and 10" Collector Sewers and 18" Interceptor Sewer
 B. Locations of Critical Area: Interceptor that runs along the railroad tracks
 C. Sewered population and projected hydraulic and organic load being discharged to McKeesport Authority (complete the following Table):

Year	Residential Customers	Population	Estimated Flow (gpd)	Estimated Raw Sewage BOD (lbs./day)
2015 Estimated	852	1,724	544,000	293
2016 Estimated	852	1,724	544,000	293
2017 Estimated	852	1,724	544,000	293
2018 Estimated	852	1,724	544,000	293
2019 Estimated	852	1,724	544,000	293
2020 Estimated	852	1,724	544,000	293

D. Plans for correcting hydraulically overloaded sewers (describe proposed plans to reduce or eliminate present or projected conditions): There are no known hydraulic overload problems at this time that require correction.

E. Characteristics of wastes to Wastewater treatment plant (BOD, SS, pH, Heavy Metals, etc.). Attached analysis if available. All flows from the Borough are from domestic sewage. No industrial waste is discharged into the sanitary sewers.

F. Please identify proposed subdivisions and/or single family dwellings (if in the Long Run Watershed) for which the McKeesport Authority will be requested to support a Planning Module or service connection pursuant to McKeesport Authority Resolution regarding Replacement Capacity Fee.

Development/Single Family Unit	Proposed EDU's	Proposed Average Day Flow GPD	Average Day Organic Loading #/D
N/A	N/A	N/A	N/A

G. Please identify all subdivision and/or single family dwellings newly constructed within your service area in 2015 and for which a service connection(s) was constructed:

Development/Single Family Unit	Proposed EDU's
N/A	N/A

H. If your service area is restricted to one municipality, please attach a list of all building permits and/or service connection applications issued in 2015 within that municipality. No building permits for new construction were issued in 2015.

Section II: Industrial Wastes

Are Industrial wastes discharged to your sewer systems?

Yes _____

No X

- A. Discuss your municipality's program for surveillance and monitoring of industrial waste discharges into the sewer system during the past year:

No industrial discharges are connected to the sanitary sewer system.

- B. Describe specific problems in the sewer system known to be caused by industrial waste discharges and summarize any steps being taken to alleviate or eliminate the problems:

N/A

- C. Important! Please attach a copy of the ordinance or regulation governing industrial waste discharges to the sewer system or a copy of amendments adopted during the past year if it has not been previously permitted. Previously submitted

- D. List of industries that discharge to system. (Use back of sheet if necessary)

Name: N/A

Flow: _____

Type: _____

- E. Monitoring and Surveillance Program for next five years:

N/A

- F. Program to eliminate industrial waste discharges or provide pretreatment:

N/A

- G. Provide list of industries that will be responsible for meeting pretreatment requirements:

N/A

Section III: System Condition

Provide the following information concerning your sewer system:

- A. Sewer System Conditions (are there any sections of sewer where rehabilitation or cleaning is needed, are there any portions with excessive infiltration, etc.):

The sewers in the Borough are in fair condition. The Borough does a detailed investigation when problems are reported. As a part of the Act 537 Plan, the Borough performed a detailed video inspection of a portion of the system in 2015.

- B. Describe sections of sewer where conveyance capacity is being exceeded or will be exceeded in the next five years:

There are no known areas where conveyance capacity is being exceeded or will be exceeded in the next five years during dry weather flows

- C. Describe your program for monitoring flows in the sewers. State if it includes periodic flow gauging or smoke and dye testing in sewers suspected of having illegal storm connections.

There are no programs in place at this time. Flow monitoring was performed on the Borough's interceptor sewer in 2001 and 2002. This information has been incorporated in the flow information in Section I above.

- D. Describe your routine maintenance programs. Indicate if on a regular basis or as-needed. List the number of employees (full or part-time) and provide a list of the equipment available for inspection and maintenance work.

Maintenance is performed on an as needed basis by the Public Works Department. The Public Works Department has 2 part time employees, a backhoe and dump truck available for sewer work. More involved repair projects are publically bid out.

- E. If applicable, briefly describe your program for maintenance and control of diversion chambers and indicate how often they are inspected:

There are no diversion chambers in the Borough

- F. Describe any work being performed to reduce infiltration/inflow:

Broken lines are replaced when they are discovered. As a part of the Act 537 Plan, the Borough completed the Dye Testing program in 2015 and additional CCTV was completed in 2015. The Borough is working to enforce the removal of illegal stormwater connections identified in the Dye testing program.

- G. If available, please submit map of sewer system.

A map was previously submitted. As a part of the Act 537 Plan, the Borough is completing work on a new GIS based map of their system.

Section IV: Extraordinary Monitoring and Rehabilitation

- A. Provide map showing locations of all flow meters on system.
There are no flow meters at this time.

- B. Provide map showing location of areas where frequent complaints are made
There are no frequent complaint areas at this time.

- C. Provide descriptions of program developed to correct overloading conditions:
No program is in place at this time. There are no known overloading conditions in the system.

- D. Do you sample wastewater and, if so, list sampling frequency and location:
There has been no wastewater sampling done in the Borough.

Section V: Pump Station

- A. Location and condition: The Borough operates 2 pump stations:
Upper Center Street - Good Condition.
Lower Center Street - Good Condition.
Both sewage ejector stations were rehabilitated in 2007. New compressors and controls were installed. A telephone alarm reporting system was also installed.

- B. Design capacity: _____
Upper Center Street - 50 GPM
Lower Center Street - 30 GPM

- C. Include in the following table a comparison of available capacity with present max. flows and projected 2-year max. flows for each station:
Neither station is equipped with flow recording equipment. Both stations have adequate capacity to handle the existing dry weather flows and no growth is expected in the watershed.

	Present Flows	Projected 2-Year Flows
Maximum	Unknown	No Growth
Average	Unknown	No Growth
Minimum	Unknown	No Growth

- D. Does Pumping Station have an overflow or bypass? _____
Both stations have emergency overflows that may be used in the event of power failure.
A telephone alarm reports this event to 5 people when this happens
- E. Provide schedule of enlarging stations if currently overloaded.
Currently the system is not overloaded, therefore, enlarging the stations is not planned.

Section VI: Sewer Extensions

- A. Provide the following information for each sewer system extension constructed in the past year. Attach a copy of the plot plan or a map of each sewer extension.

Development/Extension Name	Population Served	Area Served	Status (constructed, approved for the construction, proposed)
N/A	N/A	N/A	N/A

Person Completing the Form: Michael S. Glister, P.E.
 Title/Position: Project Manager/Borough Engineer
 Date Completed: February 29, 2016

Please return by March 7, 2016, to the following address:
Municipal Authority of the City of McKeesport
100 Atlantic Avenue, McKeesport, PA 15132

ANY MUNICIPALITY OR AUTHORITY FOR WHICH INFORMATION IS NOT RECEIVED
 WILL BE REPORTED AS SUCH IN THE WASTELOAD MANAGEMENT REPORT.

Versailles Borough

Act 537 - 10 Year Plan Annual Progress Report Form

Reporting Period: Annual Report, end of Year 8

From January 1, 2008 to December 31, 2015

Task Description	Proposed Start Date	Actual Start Date	Required Completion Date	Actual Completion Date	Required Percent Complete	Actual Percent Complete	Comments
PHASE I: Assessment System Plan Development							
(A) Adopt the Plan (Year 0)	January 1, 2007	N/A	N/A	7/20/2007	100%	100%	DEP Approved Plan
(B) GIS Mapping (Year 1)	January 1, 2008	1/1/2008	12/31/08		25%	25%	
GIS Mapping (Year 2)	January 1, 2009		12/31/09		50%	60%	
GIS Mapping (Year 3)	January 1, 2010		12/31/10		75%	86%	
GIS Mapping (Year 4)	January 1, 2011		12/31/11		100%	100%	
(C) Adopt Dye Test Ordinance	January 1, 2008	N/A	12/31/08	6/12/2006	100%	100%	Ordinance 1 of 2006
(D) Manhole Inspection (Year 1)	January 1, 2009		12/31/09		25%	10%	
Manhole Inspections (Year 2)	January 1, 2010		12/31/10		50%	8%	14 out of 178
Manhole Inspections (Year 3)	January 1, 2011		12/31/11		75%	14%	31 out of 185
Manhole Inspections (Year 4)	January 1, 2012		12/31/12		100%	14%	31 out of 185
Manhole Inspections (Year 5)	January 1, 2014		12/31/15		100%	83%	154 out of 185
(E) Dye testing (Year 1)	January 1, 2011		12/31/11		25%	34%	223 out of 665
Dye testing (Year 2)	January 1, 2012		12/31/12		50%	34%	223 out of 665
Dye testing (Year 3)	January 1, 2013		12/31/13		75%	65%	432 out of 665
Dye testing (Year 4)	January 1, 2014		12/31/14		100%	100%	665 out of 665
Enforcement of Illegal Connections	January 1, 2012		12/31/15				The Borough continues to follow up with property owners for the purpose of enforcing the removal of illegal connections discovered during dye testing
(F) Cleaning/CCTV (Year 1)	January 1, 2012		12/31/12		17%	19%	6,883/36,417
Cleaning/CCTV (Year 2)	January 1, 2013		12/31/13		33%	31%	11,251/36,417
Cleaning/CCTV (Year 3)	January 1, 2014		12/31/14		50%	41%	14,948/36,417
Cleaning/CCTV (Year 4)	January 1, 2015		12/31/15		67%	62%	22,686/36,417
Cleaning/CCTV (Year 5)	January 1, 2016		12/31/16		83%		
Cleaning/CCTV (Year 6)	January 1, 2017		12/31/17		100%		
(G) System Assessment/Repair Plan	January 1, 2017		12/31/17		100%		

Based on the above information, is the Municipality in compliance with the approved schedule? No If No, please attach an explanation.

The Borough has inspected all accessible manholes. Work is required to provide access/locate the remaining manholes that need inspected. The Borough has fallen slightly behind in CCTV as defects and access issues have prevented CCTV Contractors from completing the amount of sanitary sewers scheduled to be televised in the Contracts awarded. The Borough is actively seeking funding to correct the referenced defects and access issues to enable the completion of televising in those segments.

Municipal Engineer

Signature/Title



2/29/16

Date



January 4, 2016

Municipal Authority of the City of McKeesport
100 Atlantic Avenue
McKeesport, PA 15132

Attention: Chuck Schultz, Superintendent

Re: Act 537 Annual Progress Report – Borough of Port Vue

Dear Mr. Schultz:

I am pleased to forward the eighth Annual Act 537 Report submitted on behalf of the Borough of Liberty for the year 2015.

I trust the enclosed form does address the tasks completed to date, however, should you wish any modifications or additional information, please do not hesitate to contact me at 412-824-5672, extension 111 or at susang@glennengr.com.

Cordially,

A handwritten signature in black ink, appearing to read 'Donald M. Glenn', written in a cursive style.

Donald M. Glenn, P.E.
Borough Engineer

Enclosure

c: Borough of Port Vue

14920 Route 30 • North Huntingdon, PA 15642
412-824-5672 • Fax 412-824-9587
www.glennengr.com

Task Description	Proposed Start Date	Actual Start Date	Required Completion Date	Actual Completion Date	Required Percent Complete	Actual Percent Completed	Estimated Cost	Comments
(A) GIS Mapping (Year 1)	Jan. 01, 2008	1/1/2008	Dec. 31, Yr. 1		25%	25%	\$2,888	
GIS Mapping (Year 2)	Jan. 01, 2009		Dec. 31, Yr. 2		50%	50%	\$2,888	
GIS Mapping (Year 3)	Jan. 01, 2010		Dec. 31, Yr. 3		75%	75%	\$2,888	
GIS Mapping (Year 4)	Jan. 01, 2011		Dec. 31, Yr. 4		100%	100%	\$2,888	See Note in Narrative
(B) Physical survey (Year 1)	Jan. 01, 2009	1/1/2008	Dec. 31, Yr. 2		25%	25%	\$12,288	
Physical survey (Year 2)	Jan. 01, 2010		Dec. 31, Yr. 3		50%	25%	\$12,288	
Physical survey (Year 3)	Jan. 01, 2011		Dec. 31, Yr. 4		75%	25%	\$12,288	See Note in Narrative
Physical survey (Year 4)	Jan. 01, 2012		Dec. 31, Yr. 5		100%	100%	\$12,288	
(C) Ordinance/Regulation development								
(i) Time of Sale Ordinance/Regulation	June 1, 2010	6/1/2005	November 1, Yr. 2	12/6/2005	100%	100%	\$2,500	See Note in Narrative
(ii) Prohibit Storm Water	June 1, 2010	6/1/2005	November 1, Yr. 2	12/6/2005	100%	100%	\$2,500	See Note in Narrative
(D) Dye Testing (Year 1)	Jan. 01, 2011		Dec. 31, Yr. 4		25%	18%	\$5,333	See Note in Narrative
Dye Testing (Year 2)	Jan. 01, 2012		Dec. 31, Yr. 5		50%	21%	\$5,333	
Dye Testing (Year 3)	Jan. 01, 2013		Dec. 31, Yr. 6		75%	25%	\$5,333	
Dye Testing (Year 4)	Jan. 01, 2014		Dec. 31, Yr. 7		100%	29%	\$5,333	
(E) Enforcement-illegal connections	Jan. 01, 2012		Dec. 31, Yr. 8		95%	98%	\$6,000	
(F) Cleaning / CCTV (Year 1)	Jan. 01, 2012		Dec. 31, Yr. 5		17%	99%	\$18,700	See Note in Narrative
Cleaning / CCTV (Year 2)	Jan. 01, 2013		Dec. 31, Yr. 6		34%	99%	\$18,700	
Cleaning / CCTV (Year 3)	Jan. 01, 2014		Dec. 31, Yr. 7		50%	100%	\$18,700	
Cleaning / CCTV (Year 4)	Jan. 01, 2015		Dec. 31, Yr. 8		67%		\$18,700	
Cleaning / CCTV (Year 5)	Jan. 01, 2016		Dec. 31, Yr. 9		84%		\$18,700	
Cleaning / CCTV (Year 6)	Jan. 01, 2017		Dec. 31, Yr. 10		100%		\$18,700	
(G) Deficiency Correction Schedule	Jan. 01, 2017		Dec. 31, Yr. 10		100%		\$5,000	
Current Year					84%	10%		See Note in Narrative
Extended Schedule Work							\$729,486	
Deficiency Corrections							\$433,250	ESTIMATE
Capacity Improvements							\$86,000	ESTIMATE

File: "Act537Year08.xls"

Based on the above information, is the Municipality in compliance with the approved schedule? G - No
 A, B, C, D, E, F, - Yes

If No, please attach an explanation. Attached

Municipal Engineer: Donald M. Glenn
 Signature: Title
 Donald M. Glenn, PE Consulting Engineer

January 4, 2016
 Date

ACT 537 NARRATIVE – PORTVUE BOROUGH

Eighth Year Annual Report

From January 01, 2015 to December 31, 2015

(A) GIS Mapping: The system map is drawn. Modifications to connectivity and other items occur as televising progresses. Maps have now been prepared which delineate SSO and CSO areas of the municipality.

(B) Physical Survey: Manhole Evaluations:

Borough crews through a concentrated effort completed the manhole evaluations as required by the December 31, 2012 deadline. The next step, preparation of a database is in progress.

(C) Ordinance / Regulation Development: Council adopted the required ordinance on December 6, 2005. Dye testing of all resale dwellings is on going since 2006.

(D) Dye Testing: Dye testing occurs as houses are being sold. To date 535 structures have been tested. Only SSO areas are to be tested, hence, a study will follow to determine the true percentage completed. The figures reported to date represents system wide. Maps have now been prepared which delineate SSO and CSO areas of the municipality

(E) Enforcement of illegal connections: To date, all structures in violation have been corrected.

(F) Cleaning / CCTV: Although the deadline for this task is December 31, 2017, the Borough has now completed the televising and cleaning of it's system. The preparation of a database which will identify required deficiency repairs and estimated costs has been completed.

(G) Deficiency Corrections: CCTV has been completed five years ahead of schedule. Database deficiency repairs are now categorized and will be scheduled for repairs. Based on dollar value, 9.68% of deficiency repairs have been completed.





February 17, 2016

The Municipal Authority of the City of McKeesport
100 Atlantic Avenue
McKeesport, PA 15132

Attention: Mr. Charles R. Schultz
Operations Manager

Re: Annual Wasteload Management Report - Chapter 94
Calendar Year 2015

Dear Mr. Schultz,

Please find enclosed, for the Borough of Port Vue, the Annual Wasteload Management Report, on your form, as requested by your letter dated February 4, 2016.

I trust this report will address the items requested; however, should you have any questions regarding this matter, please do not hesitate to contact me at 412-824-5672, extension 114.

Cordially,

A handwritten signature in black ink that reads 'Richard C. Hinkle'. The signature is written in a cursive style with a large, prominent 'R'.

Richard C. Hinkle
Engineering Associate

Enclosure

c: Borough of Port Vue w/encl.

THE MUNICIPAL AUTHORITY OF
THE CITY OF MCKEESPORT
OPERATING YEAR 2015
WASTELOAD MANAGEMENT REPORT

Name of Municipal Authority Port Vue Borough
 Street Address 1191 Romine Avenue
 City, State, Zip Port Vue, PA 15133
 Phone number 412-664-9323

Name of Person Completing Report Richard C. Hinkle
 Title of Company: Glenn Engineering and Associates, Ltd.
 Street Address 14920 Route 30
 City, State, Zip North Huntingdon, PA 15642
 Phone number 412-824-5672, extension 114

Section I: Hydraulic and Organic Loadings

- A. Size of Sewers: 8" - 21"
- B. Locations of Critical Area: Youghiogheny Siphon Chamber-McKeesport Section
- C. Sewered population and projected hydraulic and organic load being discharged to McKeesport Authority (complete the following Table):

Year	Residential Customers	Population	Estimated Flow (gpd)	Estimated Raw Sewage BOD (lbs./day)
2015 Actual				
2016 Estimated				
2017 Estimated		See Attachment "A"		
20187 Estimated				
2019 Estimated				
2020 Estimated				

- D. Plans for correcting hydraulically overloaded sewers (describe proposed plans to reduce or eliminate present or projected conditions): The receiving McKeesport Lower Youghiogheny Interceptor experiences overloading during wet weather events. The Pump Station revision is being monitored to determine improvement.
- E. Characteristics of wastes to Wastewater treatment plant (BOD, SS, pH, Heavy Metals, etc.). Attached analysis if available. Residential Characteristics, no analyses available.
- F. Please identify proposed subdivisions and/or single family dwellings (if in the Long Run Watershed) for which the McKeesport Authority will be requested to support a Planning Module or service connection pursuant to McKeesport Authority Resolution regarding Replacement Capacity Fee.

Development/Single Family Unit	Proposed EDU's	Proposed Average Day Flow GPD	Average Day Organic Loading #/D
None of the Port Vue Borough sewage flows accrue to the Long Run Watershed.			

- G. Please identify all subdivision and/or single family dwellings newly constructed within your service area in 2015 and for which a service connection(s) was constructed:

Development/Single Family Unit	Proposed EDU's
No structures constructed in 2015.	

- H. If your service area is restricted to one municipality, please attach a list of all building permits and/or service connection applications issued in 2015 within that municipality. No permits issued.

Section II: Industrial Wastes

Are industrial wastes discharged to your sewer systems?

Yes _____

No X

- A. Discuss your municipality's program for surveillance and monitoring of industrial waste discharges into the sewer system during the past year:

Not Applicable.

- B. Describe specific problems in the sewer system known to be caused by industrial waste discharges and summarize any steps being taken to alleviate or eliminate the problems:

Not Applicable.

- C. Important! Please attach a copy of the ordinance or regulation governing industrial waste discharges to the sewer system or a copy of amendments adopted during the past year if it has not been previously permitted.

- D. List of industries that discharge to system. (Use back of sheet if necessary)

Name: Not Applicable.

Flow: _____

Type: _____

- E. Monitoring and Surveillance Program for next five years:

Not Applicable.

- F. Program to eliminate industrial waste discharges or provide pretreatment:

Not Applicable.

- G. Provide list of industries that will be responsible for meeting pretreatment requirements:

Not Applicable.

Section III: System Condition

Provide the following information concerning your sewer system:

- A. Sewer System Conditions (are there any sections of sewer where rehabilitation or cleaning is needed, are there any portions with excessive infiltration, etc.):

Entire sewer system shall be cleaned, televised and applicable repairs made in conformance with the Act 537 10 Year Plan.

- B. Describe sections of sewer where conveyance capacity is being exceeded or will be exceeded in the next five years: Based on projected flows, the system appears to have adequate capacity for existing flows and projected five year flows. Capacity, however, is limited on McKeesport side of the Youghiogheny River crossing.

- C. Describe your program for monitoring flows in the sewers. State if it includes periodic flow gauging or smoke and dye testing in sewers suspected of having illegal storm connections. Flow monitoring of the approved CSO outfall site at the McKeesport Pump Station will be ongoing.

- D. Describe your routine maintenance programs. Indicate if on a regular basis or as-needed. List the number of employees (full or part-time) and provide a list of the equipment available for inspection and maintenance work. Maintenance is performed on a periodic basis or on an "as needed" basis by three full-time public works employees. Twin Rivers COG's, high velocity sewer cleaning equipment, used on a subcontracted basis.

- E. If applicable, briefly describe your program for maintenance and control of diversion chambers and indicate how often they are inspected: An O & M Manual has been developed and is being implemented including the Plan of Implementation of Nine Minimum Controls for Combined Sewer Overflows.

- F. Describe any work being performed to reduce infiltration/inflow: All approved Act 537 tasks will be implemented either on or before scheduled. Entire system shall be televised, cleaned and repairs made as warranted.

- G. If available, please submit map of sewer system. Digital maps were submitted in 2007. Electronic maps in both ArcView database and Autocad formats are available for trade if requested.

Section IV: Extraordinary Monitoring and Rehabilitation

- A. Provide map showing locations of all flow meters on system.
See III.g for any map requests.

- B. Provide map showing location of areas where frequent complaints are made.
NONE

- C. Provide descriptions of program developed to correct overloading conditions:
Port Vue Borough has participated in the Regional Act 537 study to evaluate and rehabilitate
the McKeesport Lower Youghiogheny Interceptor and Yough River Siphon Chamber.

- D. Do you sample wastewater and, if so, list sampling frequency and location:
No samples occurs.

Section V: Pump Station

- A. Location and condition: _____
Glenn Avenue- good operating condition and installed new pump in 1999. Re-built existing
pump in 2000.

- B. Design capacity: 50 GPM

- C. Include in the following table a comparison of available capacity with present max. flows and
projected 2-year max. flows for each station: _____
The Glenn Avenue Pump Station is not equipped with flow monitoring equipment; hence,
the maximum, average and minimum flows are not available.

	Present Flows	Projected 2-Year Flows
Maximum		
Average	No Flow Data Exists.	
Minimum		

D. Does Pumping Station have an overflow or bypass? _____

Yes

E. Provide schedule of enlarging stations if currently overloaded.

Not Applicable.

Section VI: Sewer Extensions

A. Provide the following information for each sewer system extension constructed in the past year. Attach a copy of the plot plan or a map of each sewer extension.

Development/Extension Name	Population Served	Area Served	Status (constructed, approved for the construction, proposed)
No Extensions in 2015.			

Person Completing the Form: Richard C. Hinkle

Title/Position: Engineering Associate

Date Completed: February 15, 2016

Please return by March 7, 2016, to the following address:

**Municipal Authority of the City of McKeesport
100 Atlantic Avenue, McKeesport, PA 15132**

**ANY MUNICIPALITY OR AUTHORITY FOR WHICH INFORMATION IS NOT RECEIVED
WILL BE REPORTED AS SUCH IN THE WASTELOAD MANAGEMENT REPORT.**

BOROUGH OF PORT VUE

ATTACHMENT A

For the
ANNUAL CHAPTER 94 WASTELOAD MANAGEMENT REPORT
to
The Municipal Authority of the City of Mckeesport

	Residential Customers	Population @ 2.13/Unit	Actual Flow (Gallons)	Actual Flow (Gal. Per Day)	Estimated Raw Sewage BOD (lb/day)
			NOTE: Added Minimums NOT recorded		
2010 Actual	1,718	3,659	75,665,000	207,301	622
2011 Actual	1,723	3,670	75,665,000	207,301	624
2012 Actual	1,723	3,670	85,934,000	235,436	624
2013 Actual	1,679	3,576	72,036,000	197,359	608
2014 Estimated	1,696	3,612	88,447,000	242,321	614
2016 Actual	1,664	3,544	79,199,000	216,984	603
			Projected Flow (Gal. Per Day)	Estimated Flow @ 90 Gpdpc (Gal. Per Day)	
2017 Projected	1,665	3,546	217,184	319,181	603
2018 Projected	1,666	3,549	217,384	319,372	603
2019 Projected	1,667	3,551	217,584	319,564	604
2020 Projected	1,668	3,553	217,784	319,756	604
2019 Projected	1,669	3,555	217,984	319,947	604