

## REPORT ON SEWERS

By Superintendent Munro.

To His Worship The Mayor and Council of the Town of Woodstock.

GENTLEMEN—Herewith I beg leave to lay before you a report of the work done on Sewerage System in accordance with the plans prepared by Messrs. Hedenberg & Kinsey, and also submit for your information as fully as possible, detailed statements of how, and where, the money entrusted to my supervision has been expended, and trust that the same will be satisfactory and approved of by you and the citizens generally.

As you are aware on the 14th of September last, proposals were invited from contractors for constructing in place certain portions of the Sewerage System, then defined by resolution of Council, and the approximate estimates of quantities were given:

Lineal Feet	Size.	The Sewers now laid are	Lineal Feet
250	20 in.	With Junction	270
1325	18 in.	For Pipes	270
2275	15 in.		2562
1125	12 in.		911
975	10 in.		1045
9000	8 in.		1501
11,950	Proposed	Laid	6895

56 Manholes and Lampholes—We have constructed 35.  
8 Flush Tanks " none.  
In addition to this we have put in 678 feet of Storm Water Sewers with four arch basins—and also laid 60 feet of six inch sewer pipe not in above list.

The report of Mr. Dibblee, C. E., Engineer in charge, will give a full detailed statement of Sewers laid, with earth excavated, rock and full details of sewers constructed.

The following is a statement of the expenditure on account of the Sewerage System:

Wages of Workmen, as per pay sheet.....	\$4633 63
W. F. Dibblee & Son, pipe bill.....	3321 68
Lindsay Bros. tools.....	31 20
A. E. Jones, tools and hardware.....	27 17
Burt, Lee & Hall, tools and hardware.....	17 64
Connell Bros. manhole castings and tools.....	129 08
Fred Moore, lumber.....	115 80
Jas. Hayden, lumber.....	78 66
Jas. Carr, lumber.....	93 77
R. K. Jones, manhole patterns and woodwork.....	28 25
D. Lyall & Co.....	13 49
M. Ryan, sand.....	24 75
J. C. Arnold, sharpening tools.....	24 78
John Loane, ".....	46 96
Chesley Esley ".....	21 36
T. McAvity & Sons, pump and hose.....	47 83
" " stamps.....	3 70
W. H. Thorne & Co., 15 and 20 in. C. I. Pipe and fittings.....	164 61
Hamilton Bros., rails and oil cans.....	4 60
Small & Fisher, manhole castings and steps and derrier.....	153 87
H. N. Payson, oil.....	23 42
T. S. Duncan, drills and hammers.....	13 38
John McAtee, rails etc.....	4 35
W. H. Everett, saw ionery.....	4 15
Mrs. J. Loane, ".....	6 25
Advertising for Tenders.....	57 95
Hedenberg & Kinsey, for plans.....	250 00
Right of Way purchased, (not paid for).....	250 00
	\$10,415.12

## Summary of Expenditure on Sewers.

Labor of Workmen.....	4633 63
Material purchased.....	5223 54
Cost of plans for whole Sewerage System.....	250 00
" " Rights of Way.....	250 00
" " Advertising for Tenders.....	57 95
	\$10,415.12

Pipe and Castings on hand.....	750 72
Tools and Lumber—Cost.....	\$179.50
25 per cent off for wear and tear.....	359 43
Oil on hand taken by F. Dept.....	8.00
Rocks sold to Connell.....	9.30
Men working on Broadway.....	10.00
Fuel W. W.....	20.00
	47 30
	\$1157 65

Total amount expended on construction of Sewers including Plans, Surveys, Specifications for entire Sewer System, also Rights of Way for sewers over private land and advertising for Tenders.

COST OF TOOLS AND PLANT.	
4 large pots for masons with irons (Connell Bros)	15 67
3 toolboxes, J. Hayden.....	12 00
1 derrier, Small and Fisher.....	25 00
Manhole patterns, Drysdale & Co.....	13 19
" " and straight edges, R. K. Jones.....	28 25
1 large pump and hose.....	47 83
12 cast iron pounders with handles.....	10 20
123 shovels, 9 picks and handles, 45 lanterns, 4 axes, 24 gal. pails, 4 sledges, 7 hammers, 122 lbs. steel.....	192 39
2 crowbars 3.48; 2 saws 1.80; double and single blocks and rope 7.97.....	12 25
Lumber for fencing and Bracing.....	\$356 78
	\$122 72
	\$479 50
MATERIAL ON HAND NOT USED.	
2 manhole castings 24 in., Fisher.....	13 52
1 " " 18 in., ".....	3 76
1 " " 24 in., Connell.....	40 54
g catch basin covers, Connell.....	57 82
Pipe on hand.....	675 98
Brick on hand.....	6 40
Dynamite, caps and fuse.....	4 70
	\$750 72

The following statement will show what the money has been expended for, and as near as I can, after carefully examining the accounts, where spent

	Wellington Ward.	Kings and Queens Ward.	Total
Cost of terra cotta pipes and junctions laid.....	1281 22	1384 48	2665 70
" " Cast iron pipes.....	112 18	112 18	224 36
" " 45,000 brick.....	203 30	187 34	390 64

" " Cement and lime.....	120 00	120 00	240 00
" " Manhole cover castings.....	53 92	51 98	105 90
" " Catch basin covers.....	3 88	1 94	5 82
" " Wages of workmen.....	1436 91	2900 72	4337 63
" " Engineering.....	100 00	100 00	200 00
" " Superintending.....	48 00	48 00	96 00
" " Lumber for outlets.....	52 28	17 50	69 78
" " " Storm sewers.....	12 00	40 36	52 36
" " " Bracing and fencing.....	12 00	12 75	24 75
" " Sand from Ryan.....	10 00	10 00	20 00
" " Manhole steps.....	20 00	13 29	33 29
" " Spikes and nails.....	2 50	29 00	31 50
" " Dynamite, fuse and caps.....	5 81	76 41	82 22
" " Sharpening tools.....	10 50	10 50	21 00
" " Stationery and Books.....	3 12	3 13	6 25
" " Oil for lanterns.....	5 00	18 42	23 42
	3554 98	5165 84	8720 82
" " Sundry materials.....	14 42	14 43	28 85
" " Tools.....			356 78
" " Pipe and castings on hand.....			750 72
" " Advertising.....			57 95
" " Plans.....			250 00
" " Rights of way purchased.....	200 00	50 00	250 00
			10 415 12

## Statement of Expenditure for Construction of Sewers in Wellington Ward, Kings and Queens Ward.

	Wellington Ward.	Kings and Queens Ward.	Total Cost of Construction
Amount expended as per statement.....	3554 98		
1 sundry material charged.....	14 43		
Loss on lumber 25 per cent.....	20 59		
on \$82.36.....			
Loss on tools 13 of 25 per cent.....	29 73		
on \$356.78.....			
Deduct lumber charged.....	3610 72		
	82 36		
Amount expended in construction.....			\$3537 36
Deduct cost of 2 catch basins.....			55 68
Nett construction of cost of 2783 feet of sanitary sewers.....			\$3481 68

Amount expended as per statement..... 5165 84

1 sundry materials charged.....	14 48
Loss on lumber 25 per cent.....	10 09
on 40.36.....	
Loss on tools 13 of 25 per cent.....	50 33
on \$356.78.....	
Deduct.....	5249 69

Lumber charged.....	40 36
Stone sold Connell.....	9 30
Oil on hand, Fire Dept.....	8.00
Work of men on Broadway.....	10.00
Work at Water Works.....	87 66

Amount expended in construction.....	5162 03
Deduct cost storm sewers.....	405 49
Amount, total cost construction 4102 feet sanitary sewer.....	4756 04
	4756 04

Cost, nett construction of 6895 feet sanitary sewers..... \$8 237 72

With the completion of the Several Sections of Sewer, water was turned in from the hydrants, and the Sewer pipes thoroughly cleaned out, and the manhole covers taken off and the flows observed, and everything found most satisfactory, showing that the grades of the pipes were perfect and the lines of Sewer pipes were all clear.

The work was begun at the old Ferry Outlet, on Oct. 7th, and at the Davis Mill Outlet, Oct. 11th, and has been carried on for eight weeks during which time we have lost about five days on account of weather. Work was stopped on Nov. 30th.

The stock of pipe on hand consists of junctions for all sizes of pipe and also 14 ft. of 18 in., 270 ft. of 15 in., 390 ft. of 12 in. of 10 in., and 602 ft. of 8 in.

I have endeavored to have all accounts for material presented to you now at the close of the work, and believe that those now before you are about all of them, however there may have been something overlooked.

The amounts charged up in the statement for Right of Way over private property the amounts that has been agreed upon between the parties and the committee, although not paid yet, nor are the transfers signed yet we have laid 625 feet of the sanitary sewerage system at an outlay of \$8,237.72, being an average of \$1.19 per foot, and according to the engineers reports have removed 451 yards of rock.

A comparison of the work done with Mr. LeBlanc's tender might be interesting.

For \$16,750.00 he proposed to put in 11,892 feet of sewers being an average of \$1.41 per foot and accordingly he would have received for the 6895 feet now laid \$9,721.55. His offer for rock was \$1.75 per cubic yard, 451 yds., \$788.25.

In addition to this he would also have charged, at least, the difference in cost of pipes where the same were made larger. The sizes of pipes were changed on several streets to provide for surface water as follows:

On Richmond Street from 8 in. to 10 in., 327 feet diff. 6c., 19.62.	
" " " 8 in. to 10 in., 215 ft. diff. 6c., 12.90	
" " " 8 in. to 10 in., 87 ft. diff. 6c., 5.22	
" Main St., South of bridge 12 in. to 15 in., 450 ft. diff. 8c., 36.00	
" Broadway " 10 in. to 12 in., 253 ft. diff. 6c., 15.18	
" St. Gertrude " 12 in. to 15 in., 616 ft. diff. 18c., 110.88	244.80
Difference in cost of cast iron pipes and terra cotta.....	132.33

Amount which LeBlanc would be entitled to..... \$10,587.33

We have put the same pipe in for..... 8,237.72

Difference in favor of town..... \$2,349.61

The estimate made by Messrs. Kinsey & Hedenberg of the above 6895 feet of sewers amounts to \$8,201.65

Another matter not to be lost sight of is the fact that of the 11,892 proposed to be put in 6000 feet was to be 8 inch and there only remains to be laid about 5000 feet to complete the proposed work. We have laid about 1500 feet of 8 inch so that of the 5000 feet to be laid, 4500 feet would have to be 8 inch and 500 of larger pipe, or in other words we have about nearly all the large pipe laid, and consequently a greater amount of showing could be made when 8 in. pipe is used than if it required pipes of greater size.

The work done this fall involved the most difficult and expensive portions of the proposed system.

The work at 15th street was most difficult and at times very dangerous, owing to the nearness of the railway track, over which at some times of the day trains were following one another so closely, and causing the ground to cave in, and it was only by using close packing that this trench could be opened, and Mr. John Whalen, foreman for this section of the work, deserves great credit for the manner in which he and his men overcame this most difficult part of the work.

Another piece of work was on Connell Street where we had to blast so much rock and pump so much water, rendering the work very difficult and disagreeable to the workmen. Mr. C. P. K. Dibblee, C. E., engineer in charge of the work, proved himself with his assistance, thoroughly capable of the work in hand, and in every way forwarded the work with all possible dispatch, and to him and the committee I render my thanks for the assistance rendered me in the work. I wish also to thank the men employed, the men who wrought in the ditch, amid the dirt and water at this season of the year, who although they received their hire, still many of them citizens of this town, and who I believe worked faithfully and well and for the interest of the town.

Respectfully submitted.

Woodstock, Dec. 4th, 1895.

DONALD MUNRO, Supt.

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A woman weighing 509 pounds died at New Middleton, Ind., recently. She was said to be the largest woman in the State.

A pardon was granted by Gov. Brown of Kentucky, to Hume Clay, the forger, who forged his grandfather's name for \$80,000.

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**RAILWAY TIME TABLE.**

DEPARTURES.

6.30 A. M.—MIXED—Week days: For McAdam Junction, St. Stephen, St. Andrews.

8.00 A. M.—MIXED—Week days: For Houlton.

10.50 A. M.—MIXED—Week days: For McAdam Junction, Fredericton and St. John.

11.05 A. M.—MIXED—Week days: For Arco.

12.25 P. M.—MIXED—Week days: For Fredericton, etc., via Gibson Branch.

1.04 P. M.—EXPRESS—Week days: For Presque Isle, and points North.

4.23 P. M.—EXPRESS—Week days: For St. John, St. Stephen, Vanceboro, Sherbrooke, Montreal, and all points West, North-West, and on Pacific Coast, Bangor, Portland, Boston, etc.

ARRIVALS.

8.55 A. M.—MIXED—Week days, from Arco took Junction, etc.

10.35 A. M.—MIXED—Week days: From Fredericton, etc., via Gibson Branch.

10.45 A. M.—MIXED—from McAdam Junction, Montreal, etc.

1.00 P. M.—EXPRESS—Week days, from St. John, St. Stephen, St. Andrews, Bangor, etc.

4.19 P. M.—EXPRESS—Week days, from Presque Isle, Caribou, Edmundston, etc.

6.00 P. M.—MIXED—Week days, from Houlton.

10.45 P. M.—MIXED—Week days, from St. John, St. Stephen, etc.

**Men's Long Boots,**  
" Heavy Boots,  
" Light Boots