# ANNUAL REPORT

OF THE

# WATERING COMMITTEE,

#### FOR THE YEAR 1941,

(TO WHICH IS ANNEXED A SPECIAL REPORT BY SAID COMMITTEE UPON THE SUBJECT OF REPAIRS TO FAIR MOUNT DAM)

TO THE

# SELECT AND COMMON COUNCILS

OF

# THE CITY OF PHILADELPHIA.

January 20, 1842.

PHILADELPHIA: PRINTED BY L. R. BAILEY, 26 NORTH FIFTH STREET. 1842.



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# WATERING COMMITTEE.

JOHN PRICE WETHERILL, Chairman. THOMAS G. CONNOR, MATTHEW NEWKIRK, CHARLES GILPIN, CALEB HAND, ANDREW COCHRAN, JACOB E. HAGERT, SAMUEL NORRIS.

# ANNUAL REPORT

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# THE WATERING COMMITTEE,

TO

## THE SELECT AND COMMON COUNCILS.

THE Watering Committee, in accordance with the established regulations of Councils, presents its Annual Report, with the Accounts necessary to elucidate its expenditures and proceedings, of the last year.

On the 7th of January, 1841, the Works at Fair Mount were again tested by a heavy ice freshet, without receiving any material damage, compared with the injuries sustained on the Schuylkill and Lehigh rivers, and at the Croton Works in the State of New York, where a new and substantial Dam was entirely swept from its base. Under all considerations, we may deem ourselves fortunate in the location of the Works at Fair Mount, which for a period of nineteen years—since they were erected—have without any intermission, given to the City and Districts a copious supply of wholesome water.

Although extra repairs were made to the planking and backing of the Dam, and an increase of taxes paid upon the Fair Mount property, the Committee has the pleasure to state, that its expenditures are still within the limits of its estimate for the year.

The Estimate for the year 1841, amounted to - \$23,500 00 Appropriated by Councils, and ordered to be paid by the Watering Committee to the Commissioners of the District of Spring Garden, towards building a wire bridge over the Schuylkill near Fair Mount, 3,000 00
Together, $         -$
Expenditure, as per annexed Account by Mr. Graff, 24,701 75
Balance remaining in the Treasury, Dec'r. 31, 1841, \$1,798 25 From which should be deducted the sum to be paid for 5000 yards of earth, for filling-in the quarry hole north of the Reservoirs, now contracted for; and for the repairs of the south face of the mound dam, washed by the late freshet of 6 feet 2 inches, on the night of the 24th of December last, 600 00
Leaving at the disposal of Councils, \$1,198 25

The sum appropriated by Councils towards building a Wire Bridge near Fair Mount, will be seen in the Accounts under the hcad of Fair Mount Bridge.—\$3000.

For the sum appropriated by Councils for the repairs to the Dam in 1842, a distinct account will be kept under the head of Fair Mount Dam, amounting per estimate to \$60,498 36.

Since the Report of the Watering Committee was presented to Councils in relation to the repairs of the Dam, contracts have been entered into with William Carman of this City, for all the timber and lumber that will be required, and every exertion is making to have the iron work and necessary materials provided, in order to commence the work as early in the spring as the state of the river will permit.

•During the year the repairs necessary to the Works were made, and the southern face of the embankments of the Reservoirs shaped, preparatory to their being grass sodded and feneed-in early in the spring.

The Committee has purchased iron pipes, lead, &e., for the ineidental extension of the distribution, and has eaused 1865 feet

of iron pipes to be laid, leaving on hand 172 pipes of 3 inches, 154 of 4 inches, and 182 of 6 inches, which will be sufficient for the year 1842. The wooden pipes which lie in Walnut from Broad to the east side of Twelfth Street, are in a state of decay; this circumstance, with the intention of the City to extend the culvert further west than it now is, and to repave a portion of that street, has induced the Watering Committee to include in its estimate a sum sufficient to relay that street with 12 inch iron pipes, for which the attachment to the 20 inch iron-main at Broad Street is already made.

By referring to the Report of last year, it will be seen that the Navigation Company, by resolution, declined the offers made by the City for raising the Dam 18 inches. In July last, another negotiation took place between the President of the Schuylkill Navigation Company and the Chairman of the Watering Committee, at which time it was believed that the former difficulties had been settled, and that the provisions now agreed upon were fully understood. In accordance with this impression, the Solicitor of the City was instructed to draw up an agreement, which was handed to the Schuylkill Navigation Company for consideration. This paper was returned, with other propositions varying materially from what was understood to have been verbally agreed upon, and could not be acceded to.

In order that Councils may understand the particulars of the negotiation, a copy of the agreement sent to the Navigation Company, and its answers, are herewith annexed. (The points at variance are printed in Italics.)

Agreement sent to the Navigation Company:

"1st. The Navigation Company shall grant to the City the privilege of raising the Dam at Fair Mount, 18 inches above the height authorized by former agreements; and if the City shall cxercise that privilege, then the Navigation Company shall pay all damages thereby occasioned on the Western side of the River Schuylkill, and shall also at their own expense raise the waterlevel of their Canal, from the Dam at Manayunk to the first Outletlock below Manayunk, 18 inches above the present water-level (6)

thereof; and shall permit the respective mill-holders and others who have a right to use the water, to use and enjoy the increased head of water free from all cost or charge therefor, and shall in like manner permit the said respective mill-holders and others who have a right to use the water, to raise the inlets and apertures supplying their works with water, as much higher than they are now, as they the said mill-holders and others who have a right to use the water, may respectively deem expedient.

"2d. If the City shall exercise the privilege of raising the Dam as aforesaid, then they shall in like manner raise the guard-lock, guard-pier, and ice-breaker at Fair Mount, and also put new gates to said guard-lock if they shall be necessary; and the City shall also pay all damages which shall be occasioned by said raising of the Dam, on the West side of the River Schuylkill from the Dam at Fair Mount to and including the Mill, formerly Rush's, now Richardson's, at Manayunk.

"3d. Nothing in this Agreement shall be taken or construed to alter, impair, or in any other manner affect any former or existing agreements between the City and the Schuylkill Navigation Company, in any particular, except as is herein expressly provided."

Propositions of the Navigation Company in answer to the above:

"The Navigation Company will grant to the City the privilege of raising the Dam at Fair Mount 18 inches above its present height, on the following terms:

"1st. That the City shall raise the guard-lock and abutment on the west side of Fair Mount Dam, 2 feet above its present height, with new gates, &c.

"2d. The City to pay all damages in consequence of raising the Dam.

"3d. That the Navigation Company will raise their own towing paths and canal banks at Manayunk, in such manner as to give the mills at that place a head of water equal to that which is taken from them in consequence of raising the Dam, say not exceeding 18 inches. And the water of said mills to be taken under the same head as per existing agreements.

"4th. Nothing in this agreement contained shall be taken or

construed so as to impair or in any other manner affect any former or existing agreements between the City and Navigation Company.

"5th. The Navigation Company's Loan in possession of the City Authorities, due on the 1st of January next, to be renewed for ten years from the 1st of June last, at 6 per cent. per annum."

The Committee regret that the various offers which have been tendered to the Schuylkill Navigation Company, in order to settle the disputes so long standing, and to come to an amicable agreement by raising the dam 18 inches, have met with such coolness as to induce the Committee to believe, that so long as the Company be permitted to hold the property wrested from the City, and to make use of the weighing-lock (which last summer consumed 5,000,000 gallons of water per day, contrary to agreement), it will not feel any disposition for the reconciliation so much desired by the City.

#### ESTIMATE FOR THE YEAR 1842.

#### Incidental Expenses:

For working machinery, for f terials, &c.,				00		
For wages, lumber, castings,	pu	mps	5			
&c., for the distribution, -	-	-	5,000	00		
For taxes and incidentals, -	-	-	2,500	00		
For salaries,	-	-	3,860	00		
					\$14,360	00
Permanent Expenses	s <b>:</b>					
For 12 inch main, and connec	tion	s, to	)			
be laid in Walnut Street, -				00		
For fitting-up work, and layi	ng	inci	-			
dental water pipes,	-	-	$2,\!628$	00		
					6,000	00

Amount carried forward, \$20,360 00

# (8)

Amount brought forward, For grass sodding and fencing on south side of Reservoirs, \$1,500 00 For painting buildings, Reservoir fence, railings, &c., 690 00 For a flight of granite steps, and iron railing, leading to mill-house, - 320 00 For carpenter's work, lumber, nails,	\$ 20,360 00
and renewing trees, 630 00	3,140 00
	\$23,500 00
Sum appropriated by Councils for the repairs to the Dam in 1842,	\$ 60,498 36
The iron pipes and firc plugs in the City and Dis follows: Pipes in the City, 63½ miles. Fire-plugs in the Ditto, Districts, 50 " Ditto, I	hc City, 520
The amount of revenue by duplicates for 1841, as per last Annual Report, Register's Account No. 3, without deducting commissions for col- lection, and loss, was	\$ 133,455 00
The amount paid into the Treasury, after dc- ducting \$6589 10 for commissions, allow- ances, &c., as per Balance Sheet prepared by the Register, Account No 1, is	\$134,634 67
The amount of revenue as per duplicates for 184 ter's Statement No. 3, is as follows:	2, per Regis-
City,	\$ 69,982 00
Spring Garden,	22,207 75 25,208 50
	\$117,398 25

l, \$117,398 25
4,673 75
14,903 75
4,288 75
\$ 141,264 50
nt, 75 00
\$141,339 50
00
40,500 00
\$100,839 50
nits, in 1841, is as

City and Distriets, Deduct rents declined, &e.,			\$9,950 75 2,100 00
Amount of increase, -	-	-	\$7,850 75

The Committee take pleasure in mentioning that the waterpower Works have continued in successful operation since their erection, and that the wheels and other parts composed of wood (although it was supposed they would last but fourteen years,) have already been in constant use for twenty;—and though they are somewhat worn and partially decayed, are found upon examination by your Committee to be sufficient, until the more important work (the repairs of the Dam) shall have been completed, after which it is believed that a general repair of the mill-house wheels and pumps, with the addition of two new wheels and pumps, will be required.—When we look at the reconstruction and repairs that have been made to almost every other Works of the kind that have been erected since the Fair Mount Works, we may consider ourselves fortunate, more particularly from the circumstance that the increase of revenue, now derived from the water rents, is not only sufficient to pay the interest on the loans for the construction of the Works, but leaves a surplus, to be appropriated annually as Councils may think best for the interest of the City.

> JOHN PRICE WETHERILL, THOMAS G. CONNOR, M. NEWKIRK, CHARLES GILPIN, CALEB HAND, J. E. HAGERT, SAMUEL NORRIS.

#### LIST OF CERTIFICATES FOR MONEYS

#### DRAWN BY THE

# WATERING COMMITTEE

#### FOR

# FAIR MOUNT WATER WORKS,

From December 31, 1840, to December 31, 1841.

No. 1841.					Dolls. C.
1	In favour of	Frederick Graff		-	532 55
2 March 1,		ditto,		-	1157 09
3 April 1,	Ditto,	ditto,	-	-	1624 55
4 May 1,	Ditto,	ditto,	-	-	856 50
5 June 1,	Ditto,	ditto,	-	-	1132 34
6 July 1,	Ditto,	ditto,	-	-	2174 29
7 13,	Ditto,	ditto,	-	-	3000 00
8 Aug. 2,	Ditto,	ditto,	-	-	2232 77
9 Sept'r. 1,	Ditto,	ditto,	-	-	1073 44
10 Oct'r. 1,	Ditto,	ditto,	-	-	2535 05
11 Nov'r. 1,	Ditto,	ditto,	-	-	1982 61
12 Dec'r. 1,	Ditto,	ditto,	-	-	3038 49
13 17,	Ditto,	ditto,	-	-	1260 50
14 27,	Ditto,	ditto,	-	-	2101 57
					24701 75

Abstract of Payments made under the foregoing Certificates.

Distribution.

Mol         1841. $Dolls.$ (C.
<ul> <li>1841.</li> <li>Isty, 2, Wages for January,</li></ul>

. ( 12 )

1		3874 83			387483
264)55 1215	$\begin{array}{c} 91 \\ 22 \\ 177 \\ 75 \\ 32 \\ 00 \\ 11 \\ 56 \\ 21 \\ 24 \end{array}$	64 67 49 68 80 00 30 00 215 97		$\begin{array}{c} 150 \\ 350 \\ 80 \\ 70 \\ 1162 \\ 51 \\ 11 \\ 70 \\ 5 \\ 00 \\ 313 \\ 50 \\ 313 \\ 50 \end{array}$	131900
12 Dec'r. 1, Wages for November,	<ul> <li>13 17, Charles Fox, for 4000 paving bricks,</li></ul>	<ul> <li>J. &amp; H. J. Keihle, for 223 lbs. of pump and fire-plug leather, -</li> <li>Andrew Garrett, for horse feed from January 12th, -</li> <li>Wetherill &amp; Brother, for paints, oils, &amp;c., -</li> <li>Reeves &amp; Whitaker, for nails and spikes, -</li> <li>27, Wages for December, -</li> </ul>	Fair Mount Works.	<ul> <li>2 March 1, James Wilson, on account, for a new scow, as per contract,</li></ul>	Amount carried forward,

( 13 )

	<b>D</b> 068. D. <b>D</b>	DU18. C.
orward,		3S74 83
1, Robert Kilvington, for 99 select trees, hauling and planting,	158 00	
Andrew M. Jones, for 200 lbs. of 8 inch spikes for the Dam, -	14 00	
Wages for June, for repairs to Dam, to masonry, to mill-work, &c.,	66049	
Wages for July,	748 00	
Harvey Stokes, for 2 casks of water cement,	650	
Keyser & Longstreth, for 7979 feet of lumber for the Dam, -	16305	
George Jones, for making spoil bank south side of Reservoirs, -	28600	
John Helmes, for 162 perches of stone for the Dam, at 50 cents, -	S1 00	
John Dagee, for 2 wheelbarrows, and repairs to old ones,	11 25	
9 Sept'r. 1, Wages for August,	359 3S	
Andrew M. Jones, for 3 kegs of S inch spikes, for the Dam, -	2150	
Wages for September,	404[25]	
Robert Donnell, for sundries for the Committee,	38 51	
Wages for October,	9402	
E. B. Flake, and two Constables at Fair Mount, on Sundays, &c., -	127 50	
J. P. Morris, for a new crank pin, and valve seats, for wheels and pumps,	9502	
Erdmann & Towers, for surveys, estimate, and report on the Dam,	14000	
William Blackburn, for County and State tax on Fair Mount estate,	1003 45	
Joseph Whisler, for Corporation, Watch and Lamp tax for Fair Mount estate,	76500	
Isaac Bedford, for Poor tax, for Fair Mount estate,	229 50	
17, Wetherill & Brother, for paints, oils, &c.,	5784	
Reeves & Whitaker, for spikes and nails,	25 00	
Owen Sheridan, for hack hire, from January 22,	98 00	
J. P. Morris & Co., for brasses and valve seats, for the pumps,	77 42	
William Clemins, for 5000 yards of earth, and levelling in Ravine,	150 00	
W. J. Carter & Co., for hack hire,	66 00	
		_

( 14 )

	13550 12600 14675		$13075 \\ 14550 \\ 11769 \\ 21563$	16200 16007 32050	$\begin{array}{c} 690 \ 76 \\ 162 \ 50 \\ 19 \ 87 \\ 58 \ 90 \\ 213 \ 30 \\ 20 \ 33 \end{array}$	$     \begin{array}{c cccccccccccccccccccccccccccccccc$
	1 1 1	1 1 1			16 mca; mc-  &c.,	
70	iron pipes, &c., ditto, -	ditto,	ditto, - ditto, - s, plugs, &c., - 	· · · · · · · · · · · · · · · · · · ·	6 circular pipes, 	
Iron Pipes.	ing up work, for ditto,	ditto, ditto,	ditto, ditto, cht iron, for cock. -	- 10 lbs. of lead,	pipes, 3 mch;  and, and hauling prass work, for st UI lbs, brass ferru	, - nd hardw -
	for January, for fitting up work, for iron pipes, &c., for February, ditto, ditto, -	for April, for April, for May,	for June, ditto, for July, ditto, Rowland, for wrought iron, for cocks, for August	for September,	Samuel Richards, for 150 pipes, 3 mch; 6 circular pipes, 16 mch; fire- plugs, &c.,	James Rowland, for wrought iron,
	reb'y. 2, Wages Aarch 1, Wages	April 1, wages Jay 1, Wages une 1, Wages	6 July 1, Wages fo 8 August 2, Wages fo James Ro 9 Sept'r. 1, Wages fo	10 Oct7r. 1, Wages for 11 Nov7r. 1, Wages for	12 Dec'r. 1, Wages for George B 13 17, Israel Rol Herbert &	27, Wages Willian Willian
				11	13 13 13	14

(15)

(16)

				• 	3860 00				±63\06
	375 00 90 00 500 00	375 00 90 00 500 00	375 00 90 00 500 00	375 00 90 00 500 00	_		$\begin{array}{c} 11 \\ 3 \\ 22 \\ 22 \\ 5 \\ 50 \\ 2 \\ 5 \\ 5 \\ 0 \\ 2 \\ 5 \\ 5 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	1500	93/10/ 21463/06
							office, - egister's office, 	· · · ·	l forward,
ries.	e April 1st, - ditto, -	July 1st, - ditto, -	october, - ditto, -	December 31st, ditto, - ditto	(contraction)	ntals.	<ul> <li>2 March 1, John Thomason, for repairs in 1840 to stove in Register's office, - Wright &amp; Hunter, for repairs in 1840 to gas fixtures in Register's office, Aaron Wolf, for sundries for Committee,</li> <li>8 August 2, James Crissy, for water rent books for Register,</li></ul>	ister,	Amount carried forward,
Salaries.	W. Rush, for one quarter, due April 1st, W. Harvey, ditto, ditto,			ditto, ditto,		Incidentals.	repairs in 1840 to pr repairs in 1840 dries for Committe tter rent books for	for serving notice, ditto,	
	amuel W. Rush, fo	y 1, Samuel W. Rush, George W. Harvey,	samuel W. Rush,	Frederick Grail, . 1, Samuel W. Rush, George W. Harvey, Frederick Graff			ohn Thomason, for Vright & Hunter, f Aaron Wolf, for sun ames Crissy, for we	9 Sept'r. 1, George W. Harvey,	
	3 April 1, S	6 July 1, S	10 $0 \text{ ct}^{1}$ . 1, $\frac{1}{6}$	14 Dec'r. 1, S			$\begin{array}{c} 2 \\ \text{March } 1, J \\ 1 \\ 1 \\ 8 \\ \text{August } 2, J \\ 1 \\ 2 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	9 Sept'r. 1, $C$	

(17)

Wo.       1841.       Amount brought forward, 10 Oct'r.       15 If       Dolls. C.       Dolls. C.         10 Oct'r.       J. Lewis D. Pratt, sundries for Committee from New York, Joseph R. Chandler, for newspaper for Register's office, Lydia R. Bailey, for newspaper for Register, Lydia R. Bailey, for printing and stationary, Lydia R. Bailey, for printing and stationary, Isaac M. Moss, for stationary for the Register, Isaac M. Moss, for stationary for the Register, July 13, Thomas Matlack, sum granted by Councils towards constructing a Bridge across the river Schuylkill, near Fair Mount, which was not included in the estimate of the year, -       238       69         7July       13, Thomas Matlack, sum granted by Councils towards constructing a Bridge       24701       75		
Amount brought forward, t, sundries for Committee from New York, ndler, for newspaper for Register's office, for water rent book and stationary, for Register, - ey, for printing and stationary,		3874 83 7199 68 3463 27
.       Lewis D. Prat         Joseph R. Cha       Joseph R. Cha         James Crissy,       Lydia R. Bail         Isaac M. Moss       Isaac M. Moss         Isaac M. Moss the ri       the estimate	Abstract of Payments made by the Watering Committee, From December 31, 1840, to December 31, 1841.	Distribution,
No. 1841. 10 Oct'r. 14 Dec'r. 7 July 1		

1

(18)

306528 386000 238 69 3000 00 24701 75				28 50	7987	115 75	21 18	86 37	103 75	10549	118 74	6430	45 37	7987	6637	29 25	94481
				ı	·	ŧ	ı	·		ı	•		·	ł	•	ı	
· · · · ·		easury,	nber 31, 184	•	1	1	1	1	1	1	case, -	•	1	•	, - ,	pipe, -	
		to the Tre	40, to Decen	•	۰ ۰	,	•	•	York, -	•	and a fire-plug case,	•	•	•	and for sundries,	and for picce of pipe,	
	中市 一部 小田山 一名	Sums paid into the Treasury,	From December 31, 1840, to December 31, 1841.	ry leave, .	ditto, -	ditto, -	ditto, -	litto, -	nch stop-cock, sent to New York,	ry leave, -	litto, and	litto, -	litto, -	litto, -	ditto, and		ne.
ower, - als, - unt Bridge,		$\mathbf{S}$ un	From Dece	perches, quarry leave,	ditto, c			ditto, d	i stop-cock,	erches, quar	ditto, d	ditto, d	ditto, ć		ditto, c		perches of stone.
Water Power, Salaries, - Incidentals, Fair Mount Bı				For 228	639	926	339	69	12 ]	1026 p						299	6747 p
		•		Jan. 18, For	March 9,	April 16,	22,	May 6,		June 4,	July 9,	August 4,	Sept'r. 3,	Oct'r. 8,	Nov'r. 2,	Dec'r. 1,	

( 19 )

С

olls. C.	14360.00			3140 00	23500 00
Dolls. C. Dolls. C.	- 3000 00 - 5000 00 - 3860 00 - 2500 00	3372 00 2628 00	$\begin{array}{c} 1500\\ 690\\ 00\\ 320\\ 00\\ 630\\ 00\\ \end{array}$		235
Estimate for the Year 1842.	<i>Incidental expenses—</i> For working the machinery, and for fuel and materials, - For wages, lumber, castings, pumps, and for the distribution, For salaries,	For the extension of a 12 inch iron main from Broad to Twelfth street, in Walnut street,	For grass sodding and fencing on south side of Reservoirs, - For painting the buildings, stairway up the hill, and Reservoir fence, For a flight of granite steps and railing leading to the mill buildings, For carpenter's repairs, and for lumber, nails, &c., -		
				•	

(20)

# Account of Iron Pipes.

Iron pipes laid in former years, commencing Octo- ber, 1819, to December 31st, 1840, -	Inch.	Feet.	Feet. 334001
Iron pipes laid in 1841— Attachment with district pipes in Fair Mount street, to water trees,	3	34	
Greenleaf court, from Fifth street, eastward, - Benton street, from High street, southward, -	Ū	214 324	1
Olive street, westward, to Schuylkill Eighth street, Part of Spring street, between Schuylkill Sixth and Seventh streets,		184 263	
St. Mary street, from Seventh to Eighth street, Juniper street, from Pine to Lombard street, -		446 400	1865
Being upwards of 63 <sup>1</sup> / <sub>2</sub> miles,			335866

Particulars relating to the Fair Mount Water Works.

The consumption of water in the City and Districts, during the year 1841, was as follows:

Gallons.

From January to April, a te	rm of 13	weeks, the supp	oly	
averaged, per day, -	-		-	3,154,174
From April to July,	ditto,	ditto,		4,487,751
From July to October,	ditto,	ditto,		$5,\!677,\!405$
From October to December,	ditto,	ditto,		4,363,191

Being an average daily supply for the year, of 4,445,630 gallons, and an excess of 410,992 gallons per day over the supply of 1840, and equal to 179 gallons to each tenant per day.

1	ຄຄ	<b>\</b>
	~~~	)

Tenants.

		<b>.</b> .				renants.
hy priva				buted to 12,		
by priva	ite hydra	ants, and	l to 3300	families by	7 public 1	ny-
drants, i				-	-	- 16,049
And by pr				larden.	-	- 2,789
			Southwa		_	- 1,823
				n Liberties,	-	
					-	- 3,124
			Moyame			- 522
			Kensing	ton, -	-	- 521
					Togeth	er, 24,828
The ave	rago ino	rosse of	the daily	- supply of y	untor dise	harged from
				e last 5 year		
				5	Gallons.	Tenants.
To tenants	and hy	z public	hydrant r	umps. in	Ganons.	a chants.
		Public -	ny arant p		3,456,383	3 20,462
the year		-	_			
Ditto,	1838,	-	-		3,850,647	
Ditto,	1839,	-	-		3,978,357	
Ditto,	1840,	-	· -		4,034,638	
Ditto,	1841,	-	-	-	4,445,630	0 24,828
				_ ,		
			City to D	ccember 31	, 1841,	*
amount	to upwai	rds of	-		-	63월 miles.
Ditto,		ditto,	in	the District	ts, -	50 ′ <b>'</b> '
			_			
Number of	ˈfire-plu	gs in the	e City,		-	520
Number of Ditto,	fire-plu				-	520 525
Number of Ditto,	fire-plu		e City, Districts,		-	
	ˈfire-plu			 	-	
Ditto,		ditto,	Districts,	_	- - with	
Ditto, The cost fo	or the er	ditto, ection of	Districts,	_ .s in 1822,		
Ditto, The cost fo the perm	or the era	ditto, ection of dditions	Districts, f the Worl	_	De-	525
Ditto, The cost fo	or the era	ditto, ection of dditions	Districts, f the Worl	_ .s in 1822,	De-	
Ditto, The cost fo the perm	or the era	ditto, ection of dditions	Districts, f the Worl	_ .s in 1822,	De-	525
Ditto, The cost fo the perm cember 3	or the ero anent a 31st, 184	ditto, ection of dditions 11, amou	Districts, f the Worl annually ints to	as in 1822, made, up to	De- - \$1,	525 .483,300 40
Ditto, The cost fo the perm cember 3 Since the e	or the ero ament a 31st, 184	ditto, ection of dditions 11, amou of the W	Districts, f the Worl annually ints to -	as in 1822, made, up to	De- - \$1,	525
Ditto, The cost fo the perm cember 3 Since the e the follow	or the ero anent ad 31st, 184 erection d wing hig	ditto, ection of dditions 11, amou of the W gh freshe	Districts, f the Worl annually ants to Vater Powe ets took pl	s in 1822, made, up to r Works at ace :	De- - <u>\$1,</u> Fair Mou	525 .483,300 40
Ditto, The cost for the perm cember 3 Since the e the follor 1822, Febr	or the era anent a 31st, 184 crection wing hig uary 21	ditto, ection of dditions 11, amou of the W gh freshe	Districts, f the Worl annually ants to Vater Powe ets took pl	as in 1822, made, up to	De- - <u>\$1,</u> Fair Mou op of	525 .483,300 40 
Ditto, The cost for the perm cember 3 Since the e the follow 1822, Febr the Dam	or the era anent ad 31st, 184 crection wing hig uary 21	ditto, ection of dditions 41, amou of the W gh freshe st, the w	Districts, f the Worl annually ints to Vater Powe ets took pl vater rose	as in 1822, made, up to works at ace : above the to	De- - <u>\$1,</u> Fair Mou op of - 9 f	525 .483,300 40 
Ditto, The cost fo the perm cember 3 Since the e the follow 1822, Febr the Dam, 1839, Janu	or the ero anent a 31st, 184 erection of wing hig ouary 21 , - ary 26th	ditto, ection of dditions 41, amou of the W gh freshe st, the w	Districts, f the Worl annually ants to Vater Powe ets took pl	as in 1822, made, up to er Works at ace : above the to ditto,	De- - <u>\$1,</u> Fair Mou op of	525 .483,300 40 
Ditto, The cost for the perm cember 3 Since the e the follow 1822, Febr the Dam	or the ero anent a 31st, 184 erection of wing hig ouary 21 , - ary 26th	ditto, ection of dditions 41, amou of the W gh freshe st, the w	Districts, f the Worl annually ints to Vater Powe ets took pl vater rose	as in 1822, made, up to works at ace : above the to	De- - <u>\$1,</u> Fair Mou op of - 9 f	525 .483,300 40 
Ditto, The cost fo the perm cember 3 Since the e the follow 1822, Febr the Dam, 1839, Janu	or the era anent a 31st, 184 wing hig uary 21 ary 26th ary 7th,	ditto, ection of dditions 41, amou of the W gh freshe st, the w	Districts, f the Worl annually ints to vater Powe ets took pl vater rose ditto,	as in 1822, made, up to er Works at ace : above the to ditto,	De- - <u>\$1,</u> Fair Mou op of - 9 f 10	525 .483,300 40 ant, in 1822, feet 1 inch. '' 2 ''

FREDERICK GRAFF, Superintendent of the Fair Mount Water Works.

December 31, 1841.

## (23)

# Index to the Accounts

#### Kept in the Department of the Register of the Watering Committee.

- No. 1, Balance sheet of the income and expenditure for the year 1841. 2, Fractional rents, &c., from city and districts, year 1841.
  - 3, Tabular statement of his accounts.
  - 3, Girard water rents in the city.
  - 4, Requisitions drawn during the year 1841.
  - 5, Annual water rents payable in the office of the Watering Committee.
  - 6, Settlement of the city duplicates for the year 1841.
  - 7, Settlement of the returns by the city collectors, for 1841.
  - 8, Settlement of balance of water rent sued in 1840.
  - 9, Settlement in part of rents sued for the year 1841.
  - 10, Duplicates of water rents for the year 1842.
  - 11, Water rents declined, city and districts, in 1841.
  - 12, Number of dwellings, &c., supplied with water in city, year 1841.
  - 13, Settlement of rents payable in the office for 1841.
  - 14, Settlement of Girard city water rents for 1841.
  - 15, Northern Liberty duplicates for the year 1842.
  - 16, Settlement of Northern Liberty duplicates for 1841.
  - 17, Iron pipes laid and fire-plugs erected in Northern Liberties.
  - 18, Southwark duplicates for 1842.
  - 19, Settlement of Southwark duplicates for 1841.
  - 20, Iron pipes and fire-plugs in the district of Southwark.
  - 21, Settlement of Moyamensing duplicates for 1841.
  - 22, Moyamensing duplicates for the year 1842.
  - 23, Iron pipes and fire-plugs in Moyamensing.
  - 24, Settlement of Kensington duplicates, 1841.
  - 25, Kensington duplicates for 1842.
  - 26, Iron pipes and fire-plugs in Kensington.
  - 27, Settlement of Spring Garden duplicates for 1841.
  - 28, Iron pipes and fire-plugs in Spring Garden.
  - 29, Spring Garden duplicates for 1842.

No. 1.

# BALANCE SHEET,

Setting forth the Amount of Revenue received from the sale of Schuylkill Water in the City and Districts, and the Costs of its Collection; also the Appropriations by Councils to the Watering Committee, and the Expenditure for and during the year 1841.

<u></u>						167									50	2			
Dolls						134634 67									5899 79				
Dolls. C. Dolls. C. 59395 71 22425 82	18795 07	3469 69	4175 25	12552 02				1431 43	1199 68				1887,29				119 50	1 00 75	16.61
	. 1		ı		ζ.			nt No. 16,	No. 27,	No. 19,	No. 21,	No. 24,	No. 6,	r and Die	-str nun á	1	unt No. 7,	r Account	nt No. 8,
: No. 6, No. 16.	No. 27,	No. 21,	No. 24,	e, No. 14,	11 M	y une wate vear 1841.	transf	per Accou	ditto,	ditto,	ditto,	ditto,	ditto,	in the City		•	us per Acco	lost, as pe	per Accour
Cash paid by City Collectors, as per Account No. Ditto. Northern Liberties. ditto. No.	Spring Garden, ditto, No. 27, Southwark ditto, No. 27,	, . ditto,	ditto,	Register of Watering Committee, No. 2,		whether in the cash part into the Voty Ireastry by the watering your mittee in the care of the Register. for the year 1841.		Commissions allowed Northern Liberties, as per Account No. 16,	r Garden,	Southwark,	Moyamensing,	Kensington,	City Collectors,	31.60 Amount noid for collocting the Weter Rents in the City and Dis		•	16000000 Amount allowed in settlement of duplicates, as per Account No. 7,	an Joel Cook as	Amount paid to Alderman Cook for fees, as per Account No. 8,
· City Collectors Northern Libe	Spring Garden	Moyamensing,	Kensington,	L reasurer of Un Register of Wa		the care of the l		allowed Northe	Spring	Southy	Moyar	Kensin	City C	l for collecting t			wed in settlemer	rned by Aldern	l to Alderman C
Cash paid by Ditto.			Ditto,	Ditto,		mittee in		Commissions	Ditto,	Ditto,	Ditto,	Ditto,	Ditto,	Amount noid	tricts for 1841	T TOT GODT TO	Amount allo	Amount rctu	Amount paid
Dolls. C.	133455 00			5613 08	00 62		262 75		55 50		45 00		2130 25	24 60			16000 00	25000 000	Inninne
Duplicates of Water Rents for the City and Dis- tricts. as ner last Annual Renort. Register's		To which add, viz.—		r racuonal parts of Water Nents, we., received during the year 1841, as per account No. 2,	Discoveries in the collection, as per Account	Balance of Water Rent sued for the year 1840.	mt No. 8	For cutting off Pipes in the year 1841, as per	9,	Rent of Wharf at Fair Mount, as per Account		For Water Rents received in advance for 1842,	as per Account No. 2,	Moyamensing, for interest, as per Account No.		Appropriated by Councils, viz.	Expenses,	For Fermanent Expenses,	TOT TIES DUNGE AT LAIL MOUNT

( 24 )

24701 75 179825 1204|81168169 27 197 25 240|50|445 50 Amount in Alderman Cook's hands, sued for 1841, as per Account 168169 | 27 |

January 1st, 1842.

SAMUEL W. RUSH, Register and Secretary.

( 25

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1011 -The New The No. 2. STATEMENT, Showing the Amount of Cash received and maid by Samuel W Rush Revi

		( 26 )	
l.	TOTAL	$\begin{array}{c} \begin{array}{c} D. & D. \\ 154 \\ 154 \\ 30 \\ 198 \\ 691 \\ 198 \\ 691 \\ 1133 \\ 91 \\ 911 \\ 64 \\ 911 \\ 64 \\ 94 \\ 94 \\ 94 \\ 94 \\ 94 \\ 94 \\ 94$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
ar 184.	Rent of wharf at Fair Mount.	<u>D. C.</u> 45 00	$\begin{array}{c} 45 \ 00 \\ \hline 150 \ 25 \\ 150 \ 25 \\ 150 \ 25 \\ 150 \ 25 \\ 2242 \ 25 \\ 2242 \ 25 \\ 2242 \ 25 \\ 2210 \ 50 \\ \hline \end{array}$
g the ye		$\begin{array}{c c} \boldsymbol{D}, \ \boldsymbol{C}, \\ \boldsymbol{B}, \ \boldsymbol{C}, \\ \boldsymbol{B}, \boldsymbol$	2130 25
1, durin	Delin-Delin-Water quents quentsto paid for he sued advance 1841. for 1841 for 1842	$\begin{array}{c} D. & C. \\ 2.8 & 00 \\ 13 & 00 \\ 109 & 25 \end{array}$	150/25 2130 25
reasury	Delin- Devents quents quents to paid for 1841. for 1841	<b>D.</b> C. 1199 50 1193 00 849 75	60 (69 (22 42 25) or 1842, ount, ble in the Office both carried to
City 1	WaterDelin-rentquentsrendquentsguedpaid forfor 18401841.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	60 69 5 41, 41, 40, 11, yable in re both c
ter, into the	Annual wa- ter rents, payable in the Office.	$\begin{array}{c c} D, & C, \\ \hline & 550 \\ 550 \\ 1760 \\ 50 \\ \hline \\ \end{array}$	174[01]2310[50]60[69]234925514Water Rents in advance for 1841,Delinquents sued for 1841,Rent of Wharf at Fair Mount,Delinquents sued for 1840,Delinquents paid for 1841,Annual Water Rents payable in the Office,-mount of \$12,552 02 are both carried to Ac
paid by Samuel W. Kush, Register, into the City Treasury, during the year 1841	Kensington water rent, fractional, 1841.	$\begin{array}{c c} D, & 7 & 32 \\ \hline & 7 & 32 & 36 \\ \hline & 23 & 33 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 33 & 38 & 38 \\ 23 & 38 & 38 & 38 \\ 23 & 38 & 38 & 38 \\ 23 & 38 & 38 & 38 \\ 23 & 38 & 38 & 38 \\ 23 & 38 & 38 & 38 \\ 23 & 38 & 38 & 38 \\ 23 & 38 & 38 & 38 \\ 23 & 38 & 38 & 38 \\ 23 & 38 & 38 & 38 \\ 23 & 38 & 38 & 38 \\ 23 & 38 & 38 & 38 \\ 23 & 38 & 38 & 38 \\ 23 & 38 & 38 & 38 \\ 23 & 38 & 38 & 38 \\ 23 & 38 & 38 & 38 \\ 23 & 3$	
umuel 1V. H	Southwark water rent, fractional.	$\begin{array}{c c} D. \\ 14 & 22 \\ 13 & 19 \\ 32 & 81 \\ 52 & 13 \\ 53 & 81 \\ 53 & 81 \\ 139 & 13 \\ 139 & 13 \\ 139 & 13 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148 & 33 \\ 148$	29 <sup>1</sup> 547[22] Deduct as follows: This and the above
pard by No	Moyamen- sing water rent, frac- tional, 1841.	D. G[C] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75] G[75]	272 <sup>294</sup>
ved and	N. L. wa- ter rent, fraction- al.	<b>D</b> . <b>D</b> . <b>C</b> . 28800 28800 28800 28800 28800 28800 28800 28800 2882 2828 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 28282 2828	627/80
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int of C	Repav. ing.	<b>D.</b> C. 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1250 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 1200 120	474,00
e Amou	Fer- rules.	D. C. 6000 600 600 600 600 600 600 600 600 6	559175
Snowing the Amount of Cash received and	City water, fractional, for 1841.	$\begin{array}{c} D. \\ 55 \\ 55 \\ 55 \\ 55 \\ 57 \\ 145 \\ 71 \\ 165 \\ 186 \\ 181 \\ 65 \\ 134 \\ 171 \\ 420 \\ 134 \\ 37 \\ 134 \\ 37 \\ 134 \\ 37 \\ 134 \\ 37 \\ 134 \\ 37 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ 141 \\ $	1783[97]
IG .	to	1841. Jan. 1841. Feb. 27, Mar. 31, June 30, July 31, Sept. 30, Oct. 30, Nov. 30, Dec. 31,	

SAMUEL W. RUSH, Register and Secretary.

January 1, 1842.

No. 3.

The Register submits to the Watering Committee the following Tabular Statement, embracing the Aceounts of his Department, setting forth the Appropriations by Councils, and their Expenditure, the Income from Water Rents, the Iron Pipes and Fire Plugs laid, &c., in the Districts, &c., to the 31st of December, 1841.

( )	27)	18
Amount of water rents, &c., from the com- meneement to 1842, inelusive.	$\begin{array}{c} D, \\ D, \\ 1160592 \\ 1160592 \\ 116596 \\ 50 \\ 1133773 \\ 254067 \\ 62 \\ 254067 \\ 62 \\ 254067 \\ 63 \\ 137 \\ 25407 \\ 00 \\ 583 \\ 00 \\ 75 \\ 00 \\ 75 \\ 00 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 10 \\ 1$	177218438
Fire plugs ereeted in Dist's.	$520 \\ 155 \\ 147 \\ 41 \\ 50 \\ 50 $	1045
Miles of Iron Pipes laid, Dist's.	$2^{20}$	1131
Increase of Water rents Number Amount of Miles of water rents, declined, of water rents, Fron during the allowed, Sc., takers, City and Pipes year 1841. Districts, Districts, Districts, Dist's, year 1842.	$\begin{array}{c c} D.\\ D.\\ 66752 50\\ 66752 50\\ 22207 75\\ 14903 75\\ 25208 50\\ 4288 75\\ 4673 75\\ 979 00\\ 775 00\\ 00\\ 75 00 \end{array}$	141339 50
Number of water takers, City and Distriets.	12749 2789 1823 522 521 521 521 3300	24828
Increase of Water rents water rents devined, during the allowed, Sc., year 1841. year 1841.	$\begin{array}{c c} D.\\ 1382 25\\ 283 50\\ 180 00\\ 142 75\\ 174 00\\ 174 00\\ 174 00\\ \end{array}$	2100 00
Increase of water rents during the year 1841.	D. 2235 75 2254 25 2254 25 2254 25 1143 00 1351 25 1351 25 00 232 00 232 00	7850 75
Amount allowed the Districts for collecting the water rents, includ. ing 1849.	$\begin{array}{c c} D & C \\ \hline D & C \\ 8068 & 56 \\ 8068 & 56 \\ 14324 & 91 \\ 1315 & 00 \\ 1367 & 18 \\ 1367 & 18 \\ \end{array}$	35086 47
Receipts for water reats during the year 1841, see Account No. 1.	D: 134634 67	13463467
Imount of Cash drawn ppropria- tions by for the ex- nuncils for 1841, the Bridge for ive Bridge 1841, see Ac- ineluded. count No.4.	D. C. 24701 75	24701 75
Amount of Cash drawn I appropria- tions by for the ex- tions by penditure Couneils for and the 1841, the Bridge for Wire Bridge 1841, see Ac- ineluded. count No. 4.	D. 26500 00	26500 00
	City,	

SAMUEL W. RUSH, Register.

January 1, 1842.

# (28)

#### CITY.

### No. 4.

Statement, showing the amount of the different heads of accounts, embracing all the accounts, as registered by Samuel W. Rush, Register, and paid by requisitions on the Mayor, being signed by John Price Wetherill, Chairman, and countersigned by Samuel W. Rush, Secretary.

					Dolls. C.
Distribution,	-	-	-	-	3874 83
Incidentals,	-	-	-	-	238 69
Water power,	-	-	-	-	3065 28
Iron pipes,	-	-	-	-	3463 27
Fair Mount W	orks,	-	-	-	719968
Salaries,	-	-	-	-	3860 00
Wire bridge at	Fair I	Mount,	-	-	3000 00
~				'n	
Carried to Bala	ince Sl	neet,	-	-	24701 75

No. 5.

Statement, showing the list of Water Rents payable to the Register, in the Office of the Watering Committee, City Hall, on the 1st of June, 1842.

		_
	Dolls.	$\overline{ C }$
Joseph S. Lovering & Co., No. 27 Church alley, -	750	00
Trustees of the Philadelphia Gas Works, -	400	00
Thomas Hewit, Zane street,	150	00
Police Committee, Filbert, east of Schuylkill Eighth street,	10	00
Ditto, Cherry, between Fourth and Fifth sts.,		00
Committee on City Property,	5	00
Ditto,	5	00
Ditto,	11	00
William Swaim, Seventh and George streets, -	300	00
E. Vansyckel, Ashton street near Vine,	125	00
T. Elmes, Vine street, west of William street,	117	00
Naval Asylum, Gray's Ferry road,	140	00
James Maxwell, Cedar, west of Twelfth street, -	112	50
Committee on City Property, at the High street Bridge,	5	00
Robert Harmer, No. 48 North Third street, -	110	00
, , , , , , , , , , , , , , , , , , , ,		
Carried to Account No. 3,	2250	50

#### CITY.

### No. 6.

Statement, showing the settlement of the duplicates of the City water rents, for the year 1841.

Dolls. C	C.
641772	25
2539 2	29
61637 9	96
59395 7	71
22422	25
-	
61637 9	96
5	1637

No. 7.

Statement, showing the settlement of the amount of water rents returned, by J. Hickey, T. Millar, G. W. Gillingham, and G. Hacker, Collectors, for the year 1841, as not paid, and allowed to them by the Committee in the settlement of the duplicates of water rents for said year.

lls.	$C.\ $	Dolls.	$C_{\bullet}$
558	50		
733	50		
594	25		
008			
-		2894	25
	.		
1			
242	25		
119	50		
532	50		
	-1	2894	<b>25</b>
	532	532 50	532 50 2894

# ( 30 )

#### CITY.

# No. 8.

Statement, showing the settlement of the water rents remaining in the hands of Alderman Joel Cook, as per statement of last year, Account No. 10.

Dolls.	<b>C</b> .	Dolls.	<i>C</i> .
Balance in Alderman Cook's hands, as per last			
year's Account No. 10,		262	75
Settled, as follows—			
The Alderman's return in August last,			
as lost, \$213 25			
From which deduct, received from per-			
sons taking the water, since his return, 30 50			
182'			
Amount paid the Alderman for fees, - 19	31		
Cash received from Alderman in Au-			
gust last, \$30 19			
Cash received from persons, as stated			
above, 30 50			1
Received by Register, and paid, as per			
Account No. 2, 60	69		
Making the aforesaid balance of -		262	75
	=		

No. 9.

Statement, showing a settlement in part of the water rents ordered to be sued for the year 1841.

		Dolls. C.	Dolls.	<u>C.</u>
Water rent ordered to be sued, -	-	532 50		
Add, for cutting off pipes, -	-	55 50		
			588	00
From which dcduct—				
Amount received by Register with	out suit, and			
paid, as per Account No. 2, -	-		150	25
Balance in suit,	-		437	75
As follows—				
In the hands of Alderman Cook,	-	197 25		
In the hands of Alderman Davis,	-	240 50		
Together,	-		437	75

#### CITY.

# No. 10.

# Statement, showing the amount of the duplicates of water rents for the year 1842.

Dolls. (	Dolls. C.
	11 1
1	() J
	2272725
38262	5
1	
	21348 75
3096 5	0
1	14 1
138437	5
	20546 25
	6462225
	01000
	2130 25
	66752 50
	Dolls. ( 6251 0 9262 2 7214 0 3826 2 9254 5 8268 0 3096 5 3606 0 13843 7

# ( 32 )

#### CITY AND DISTRICTS.

# No. 11.

Slatement, showing the amount of water rents taken from the water rent books of the city and districts, for and during the year 1841.

City-				<u></u>	Dolls.	C.	Dolls.	$\overline{C}$ .
Amount ordered t	o be su	ied,	-	\$ 532 50				
Deduct amount co								
					426	50		
Amount allowed h	ov Com	mittee.	-	-	119	1 1		
Amount declined,		-	-	-	736			
							1282	25
Districts-							****	
Kensington, -		_	-	_	174			
Northern Libertie	e e	_	_	_	142	1 11		
Spring Garden, -		_	_	-	283	1 I I		
Southwark, -		-	-	~	180	4 H		
		-	-	-	1			
Moyamensing, -		-	-	-	37	50		
		,					817	75
Amount taken from	m the b	ooks, ca	arried to	Account				
No. 3, -		-	-	•		l	<b>210</b> 0	00

It will be perceived, that the increase of water rents during the year 1841, by new permits, is decreased to the amount of the aforesaid deduction.

# ( 23 )

#### CITY.

# No. 12.

# Statement, of the number of dwellings, manufactories, and institutions, supplied with the Schuylkill water, in the City of Philadelphia, to the 31st of December, 1841.

							DULGH	DUID
00	TT 0	e					Dolls. C.	Dolls. C.
	Horses, &c.,	•	•	•	•	•	at 100	39 00
	Wash pavements,	-	-	•	-	-	2 00	270 00
	Tenements, &c , &c.,		•	•	•	-	2 50	607 50
1937	Baths, -	-	-	-	-	-	3 00	5811 00
	Taverns, -	-	-	-	-	•	3 75	30 00
	Stables, -	-	•	-	-	-	4 00	17200
	Baths, -	•	•	-	-	-	4 50	153 00
8863	Dwellings, &c., &c.,	•	-	-	-	•	5 00	
1	Stable, &c., -	•	•	-	-	-	5 50	5 50
31	Dwellings, &c.,	-	•	-	-	•	600	186 00
3	Dwellings, &c.,	-	•	•	-	-	7 00	21 00
367	Dwellings, &c.,	-	-	•	-	•	7 50	2752 50
541	Printing offices, &c.,		-	-	-	-	8 00	4328 00
2	Dwellings, &c.,	-	-		-		8 50	17 00
28	Vinegar yards, &c., &	2 <b>C</b> m		-	-	-	9 00	252 00
1	Steam engine, &c.,		•	-	-	-	9 50	
173	Dyers, &c., &c.,		-	-	-	•	10 00	1730 00
	Dwelling, &c.,		-		_		10 50	10 50
	Marble yards,		•	-	_	_	11 00	44 00
		-	-		-	-	11 25	67 50
<u> 99</u>	Dwellings, &c., Soap boilers, &c., Dwellings, -	-	•	_		-	12 00	264 00
29	Dwellings -	-	-	-	•	•	12 50	362 50
~0 0	Taverns, &c.,	-	•	-	-	•	13 00	2600
õ	Courts, -	-	•	•	•	-	14 00	$28_{00}$
ครั	Distilleries, &c., &c.,	- 810	•	•	-	•	15 00	945 00
		α.υ.,	•	-	•	•	16 00	64 00
	Hatters, &c., -	-	-	-	•	•		
20	Stables, &c., -	-	•	•	-	•		34 00     59 50
	Courts, &c., -	-	-	-	•	•	17 50	52 50
0	Courts, &c.,	:	-	-	•	-	18 00	90 00
29	Taverns, courts, &c.,	æc.,	•	•	-	•	20 00	580 00
	Steam engine, &c.,	•	•	•	-	•	20 50	20 50
	Courts, &c., -	-	-	-	-	-	22 50	180 00
2	Stables,	-	-	•	•	-	2400	4800
30	Sugar houses, &c., &	с.,	•	•	•	-	25 00	750 00
1	Court, &c.,	-	•	-	-	-	26 00	
2	Taverns, &c., &c.,	•	-	-	• •	•	27 50	
1	Tavern, &c., -	•	-	•	•	-	29 50	29 50
18	Stables, &c., -	•	•	•	•	-	30 00	$540\ 00$
1	Steam engine, &c.,	-	-	•	•	-	31 75	
1	Court, &c., -	-	•	•	•	-	32 50	32[50]
3	Courts, &c., -	-	•	-	-	•	33 00	99 00
1	Mansion house, &c.,	-	-	-	-	•	34 00	34 00
1	Hotel, -	-	-	•	-	-	35[00]	35 00
6	Morocco factories, &	c., &c.,	-	-	•		35[00]	210 00
	Steam engines,	•	-	•	•	-	36 00	144 00
	Steam engine, &c.,	-	-	-	-		39 00	39 00
6	Steam engines, &c., &	&c., &c.		-	-	-	40 00	240 00
	Court, &c., -	•	, -	-	-		41 25	41 25
3	Courts, &c., -		•	-			45 00	
11	Stables, &c., &c.,		-	-	-		50 00	550 00
1	Hotel,			-	-		53 00	53 00
î	Hotel, .		-				55 00	55 00
12725		Ar	nount e	arried fo	orward.			66615 50
14120		441						•

## ( 34 )

CI	Т	Y	•
----	---	---	---

		_							
					_		1	Dolls. [C.]]	
12725			Amoun	t brough	it forwai	rd,		1 1	66615 50
	Hotels, &c., &c.,	-	-	•	•	•	a	t 60 00	120 00
	Hotel, -	•	•	-	-	-		61 50	61 50
6	Brewerics, &c.,	•	•	-	•			75 00	450 00
1	Distillery, -	•	•	-	•	•		80 00	80 00
1	Hotel,	•	-	-	-			86 00	86 00
1	Hotel, -	-	•		<b>.</b> ,			88 00	88 00
2	Laboratories, &c.		-	-				90[00]]	18000
	Hotel.	· .			-	-		96 50	96 50
1	Bath house, -	-		-		-		110,00	110 00
	Water wheel, -	-	•		-			112 50	112 50
	Hattery, &c., -		-		-			117 00	117 00
	Distillery,		-		-	-		125 00	125 00
1	Naval Asylum,	_		-	-	_	1	140 00	140 00
1	Sugar house, -	_	-	_	_	_		150 00	150 00
1	Bath house, -	_	-		_		1	300 00	300.00
1	Gas Works,			-	-			400 00	400.00
	Sugar house, -			-		•		750 00	750.00
-	Sugar nouse, •	•	•	-	•	•	1	10000	100 00
12749								1 11	69982 00
								toma and	
The	above Account No	o. 12, is	compose	ed of the	e followi	ng wat	er rent	s	
Duplic	ates, as per Accou	nt No. 1	0.				_		66752 50
Girard	water rents, as pe	r Accou	nt No. 3	2	-	-	•	- 4	979 00
Water	rents payable in th	a office		A account	N. 5	-	-		2250 50
** alci	Tents payable in th	ie omee,	as per	Account	. 110. 0,	•	•	•	2200 00
								S	69982 00
			Area and the s	and something	and as easy one as				

#### No. 13.

Statement, showing the settlement of the water rents payable to the Register of the Watering Committee, as per last year's Report, Account No. 5.

Amount payable to Register, on the 1st of June, 1841,

Received and paid by Register, as per Account No. 2,

<i>Dolls.</i> 2310	<i>C</i> . 50
2310	50

## No. 14.

Statement, showing the settlement of the water rents charged to the Girard Estate in the City, as per last year's Report, Account No. 3.

Amount of bill of water rent,	Dolls. 886	<i>C</i> . 00
Cash paid City Treasurer, by the Treasurer of the Girard Trusts, carried to Account No. 1,	886	00

### (35)

#### NORTHERN LIBERTIES.

#### No. 15.

An account, showing the amount of the water rents due and payable to the City, by the incorporated district of the Northern Liberties, on the 1st of June, 1842, after 6 per cent. shall have been deducted, as per agreement—also the number of dwellings, &c., supplied therein with the Schuylkill water, to the 31st of December, 1841.

								Dolls.	$\overline{C}$	Dolls. C.
46	Horses,	_	_		_				50	
ĩ	Horse, &c.,	-	•	•	•	•	•	1 j	50	2.50
15	Wash pavemen	te	-	•	•	•	-		00	
64	Tenements,		-	•	•	•	-	2	75	$240\ 00$
950	Baths, -	•	•	-	-	•	-		50 50	
~00	Standa for here	-	-	•	•	•	•		00	
70	Stands for hors Dwellings,	ses,	-	-	•	•	•		00	
9250	Dwennigs,	•	•	-	•	•	-			
	Dwellings,		•	-	•	-	-		50	
1	Stable, - Stable, &c.,	-	•	•	•	•	•		00	8 00
1	Stable, &c.,	-	-	•	•	•	-		75	875
9	Dwellings,	-	-	•	-	-	-	1	00	
1	Factories,	-	-	•	-	•	•	10		
	Stables, &c.,		-	-	-	•	-	$10^{-10}$		
	Dwellings, &c.		-	-	-	•	•	11	i I	l (
	Curriers, &c.,	-	•	-	-	•	-	12		
	Stables, &c.,	•	•.	-	-	•	•	13	U	
	Curriers, moro	cco facto	orics, &	с.,		•	-	15		
	Factory,	•	-	-	-	-	-	16		16,00
	Steam engine,		-	-	•	-	-	16	· 1	
2	Morocco factor	ies,	•	-	-	•	•	17		3400
	Court, -	-	-	•	-	•	•	18		
	Taverns, &c.,		•	-	•	•	-	18	75	24375
1	Brewery, &c.,	-	•	•	-	•	•	19	50	19 50
2	Soap factories,	-	-	-		-	-	20	00	40 00
1	Tavern, &c.,	-	-	-	-	-	•	21	00	21 00
1	Tavern, &c.,	-	-	-	-	-	-	21 :		
25	Taverns, &c.,	-	•	-	-	-	-	22.	50	562 50
3	Morocco factor	ies, &c.,		-	•	-	•	25	$00_{1}$	75 00
	Stable, -	-	•	-	-	-	•	25]	50	25 50
2	Courts,	-	-		-	•	-	26	25	5250
	Steam engine,		-	•		-	•	29	25	29 25
	Soap factories,		-	-		-		30	$00^{  }$	<b>3</b> 90 0 <b>0</b>
	Morocco factor				-	-		33	00	33 00
9	Taverns,	-	-					33	75	303.75
3	Morocco factor	ies.					-	37	50	112 50
	Court, -				-			39	00	39.00
	Hay market,					-		40	00	
	Court, -		-			-		41		
	Turpentine fac	torv.		-		-		42		42 75
$\hat{2}$	Turpentine dis	tilleries	and mo	rocco f	ctories.			50		
$\tilde{2}$	Tanneries,	-	-	-	-	-		52		
ĩ	Morocco factor	TV.	_	_				75		
1	Brewery, &c.,		-	-	-			87		
1	Brewery, acc.,	-	-	-	-	-		150		1 1
1	Gas Works,		-	-	-	-		200		
	Gas WUINS	-	-	-		-	-	~~~	1	
3124	C	arried to	Acon	nt No. 1	3					25208 50
0141	U	arrieu tu	nucou	110 T40+ 4	· 1	-				

#### (36)

#### NORTHERN LIBERTIES.

#### No. 16.

Statement, showing the settlement of the duplicates of water rent charged to the Board of Commissioners of the incorporated district of Northern Liberties, as per last Annual Report, Account No. 16.

	Dolls. C	Dolls. C.
Amount of duplicates,	23857 23	5
From which deduct 6 per cent., as per agreement,	143143	
		22425 82
Settled, viz.—		
Amount paid to the City Treasurer, by the Trea-		
surer of the district of Northern Liberties, car-		1 1
ried to Account No. 1,		22425 82

#### No. 17.

Statement, showing the quantity of iron pipes laid, and the number of fire plugs erected in the district of Northern Liberties, from the year 1826 to the year 1841, both inclusive.

	Feet.	In	Feet.	In
Iron pipes laid to and including the year 1840,			72457	
Iron pipes laid in the year 1841, viz.				
6 inch, Apple street, between George and Frank-				
lin streets,	666			
10 inch, Poplar street, between Old York Road				
and Sixth street,	391			
6 inch, Laurel street, between Second and Budd				
streets,	470			
4 inch, Rachel street, between Poplar Lane and				
Laurel street,	462			
			1989	
		Í.		
Say 14 <sup>1</sup> / <sub>3</sub> miles, carried to Account No. 3,			74446	
		-		

Fire plugs erected in the district of Northern Liberties.

- No. 146, Rachel street, south of Laurel street.
- No. 147, Apple street, south of Franklin street.

147 plugs erected in the district—carried to Account No. 3.

#### SOUTHWARE.

### No. 18.

An account, showing the amount of water rents due and payable to the City, on the 1st of June next, by the incorporated district of Southwark, for the year 1842, after 6 per cent. shall have been deducted, as per agreement—also an account of the number of dwellings, &c., supplied with the Schuylkill water, to the 31st of December, 1841.

	· · · · · · · · · · · · · · · · · · ·			Dolls. C.	Dolls.	<u>7</u> ,
1	Horse,	-	-	at 150	15	
	Bake houses, &c., -	-	-	3 00	270	)0
	Tavern licensed houses,	-	-	375	1050	0
	Baths,	-	-	4 50	310 5	50
1	Commissioners' Hall,	-	-	5 00	50	)0
14	Dwellings, -	-	-	6 00	84 0	0
1601	Dwellings, -	-	-	7 50	12007 5	50
2	Dwellings, -	-	-	9 00	180	)0
24	Taverns, &c., -	•	-	11 25		
10	Dwellings, &c., -	-	-	12,00	1200	0(
1	Hattery, &c., -	-	-	1275	127	
26	Hatteries, &c., &c.,	-	-	1500	3900	0(
3	Soap factories, -	-	-	18:00	510	
រី	Courts, &c., -	-	-	18 75	937	5
	Steam engine, -	-	-	20 00		
11	Sugar houses, &c.,	-	-	22,50	247 5	;0
1	Livery stable, -	-	-	25,00	250	
3	Courts,	-	-	26 25	787	΄5
1	Court, &c., -	-	-	30 00	30 0	
1	Steam engine, -	-	-	36 00	360	
4	Courts, &c., -	-	-	37 50	1500	
1	Brewery,	-	-	45.00	450	
1	Court, &c., -	-	-	52 50	52 5	
1	Foundry,	-	-	70'00	700	
	Navy yards, &c., &c.,	-	-	75 00	1500	
1	Vagrant apartment, Cou	nty P	rison,	100,00	100 0	
1	County Prison, -	-	-	400'00	4000	0
1823	Carried to Acco	ount 1	No. 3,		149037	5

### ( 38 )

#### SOUTHWARK.

#### No. 19.

Statement, showing the settlement of the duplicates of water rents charged to the Board of Commissioners of the district of Southwark, for the year 1841, as per last Annual Report, Account No. 19.

	Dolls.	C.	Dolls.	$\overline{C}$ .
Amount of duplicates,	13760			
From which deduct 6 per cent., as per agreement,				
			12935	11
Settled, viz. —				
Amount paid to the City Treasurer by the Trea-				
surer of the district of Southwark, carried to				
Account No. 1,	4		12935	11
		-		

### No. 20.

Statement, showing the quantity of iron pipes laid, and the number of fire plugs erected in the district of Southwark, from the year 1826 to the year 1841, both inclusive.

0				
	Feet.	In	Feet.	In
Iron pipes laid in the district, to and including				
the year 1840,			56508	00
4 inch, Moyamensing road, from Carpenter to				
Prime street,	504	00		
3 inch, Clark street, from Third to Fourth street,	455			
4 inch, Marriott's lane, from Moyamensing road				
to Third street,	429	00		
4 inch, Marriott's lane, from Third to Fourth st.,	454			
6 inch, Wharton, from Moyamensing road to				
Third street,	116	00		
6 inch, Wharton, from Third to Fourth street,	450	00		
6 inch, Wharton, from Fourth to Fifth street,	419			l
6 inch, Fourth st. from Wharton to Johnson's lane,	177	00		
6 inch, Third, from Washington to Wharton st.,	250	00		
8 inch, Third street, included in the above dis-				
tance,	500	00		
6 inch, Seventh street, from Carpenter to Prime				
or Washington street,	461	ooll		
· · · · · · · · · · · · · · · · · · ·			4216	03
113 miles—carried to Account No. 3, -			60724	03
		=		

#### ( 39 -)

#### *Fire plugs laid in the district of* Southwark.

No. 123, Moyamensing road, south of Carpenter street. 124, Clark, east of Fourth street.

- 125, Marriott's lane, east of Third street. 126, Marriott's lane, east of Fourth street.
- 127, Wharton, east of Fourth street. 128, Wharton, east of Fifth street.
- 129, Fourth street and Johnson's lanc.
- 130, Third, opposite Prime street.
- 131, Third, south of Federal street.
- 132, Seventh, opposite Hallowell street. 132 plugs in the district—carried to Account No. 3.

#### MOYAMENSING.

#### No. 21.

Statement, showing the settlement of the duplicates of water rents charged to the Board of Commissioners of the township of Moyamensing, in the year 1841, as per last Report, Account No. 23.

	Dolls.	C.	Dolls. C	Л.
Amount of duplicates for 1841,	3654	25		
From which deduct 6 per cent., as per agreement,	219	25		
			34350	0
Add, interest for delay in payment, -			34 6	9
Amount paid City Treasurer, by the Treasurer				
of the township of Moyamensing, carried to				
Account No. 1,	0 0		3469 6	9
in the stand complete standing that some standing and the standing standing and the standing standard standing a		1		

#### No. 22.

An account, showing the amount of water rents due and payable to the City, on the 1st of June next, by the Commissioners of the township of Moyamensing, for the year 1842, after 6 per cent. shall have been deducted, as per agreement-also the number of dwellings, &c., supplied therein with the Schuylkill water, to the 31st of December, 1841.

-			/		./			
							Dolls. C.	Dolls. C.
2	Water closets, -	•	•	-	-	•	at 1 50	3 00
1	Wash pavement,	-		•	-	•	3 00	3 00
4	Tenements,	-		-	-		3 75	$15\ 00$
<b>46</b>	Baths, -	-	-	-	-		4 50	$207\ 00$
1	Commissioners' Hall		-		-	-	5 00	5 00
425	Dwellings,	, <u>-</u>	-	-			7 50	3187 50
1	Factory, -			-			10 00	10 00
12	Taverns, -	-	-	-			11 25	135,00
10	Dwellings and baths,	_	-	-	-		12 00	120 00
6	Taverns, -	' <u>-</u>					15 00	90,00
2	Courts, -		-		-	-	18 75	37 50
1	Public school, -		•				20 00	20 00
1	Court, -	-	-	-	-		21 00	21 00
	Courts, .	-	-	-	-		22 50	90 00
1	Court, -	-		-			24 00	2400
1	Factory, -	-					30 00	<b>3</b> 0 0 <b>0</b>
1	Court, -	-	-	-	-	-	33 75	33 75
1	Bleaching yard,		-	-		-	4000	$40\ 00$
ī	Court, -	-		-	_		4200	$42\ 00$
1	Water wheel and fac	torv.	_	-	-		175 00	175 00
522	Carried	to A	count No	o. 3,	-	-	1 1 11	4288 75
				,				

#### ( 40 )

#### MOYAMENSING.

#### No. 23.

Statement, showing the quantity of iron pipes laid, and the number of fire plugs erected in the township of Moyamensing, from the year 1832 to the year 1841, both inclusive.

	Feet. In	Feet. In
Iron pipes laid in the Township, from the year		
1832 to the year 1840, both inclusive,		15672 04
Pipes laid in the year 1841-		
10 inch, in Seventh, from Fitzwater to Catherine		
street,	449 00	
10 inch, Catherine, between Sixth and Seventh		
streets,	160 00	
		60900
Say 3 <sup>1</sup> / <sub>8</sub> miles of pipes,		1628104
	=	

Fire plugs erected in the township of Moyamensing, from the year 1832 to the year 1840, inclusive, - - - - 39

No. 40, in Seventh, between Fitzwater and Catherine streets.

No. 41, in Catherine, between Sixth and Seventh streets.

Say 41 fire plugs in the Township-carried to Account No. 3.

#### **KENSINGTON.**

#### No. 24.

Statement, showing the settlement of the duplicates of water rents charged to the Board of Commissioners of the district of Kensington, for the year 1841, as per last Annual Report, Account No. 26.

Amount of duplicates, Deduct 6 per cent., as per contract, -	Dolls. C. 4441 75 266 50	Dolls. C. 4175 25
Amount paid City Treasurer, by the Treasurer of the district, carried to Account No. 1,		4175 25

#### (41)

#### **KENSINGTON.**

#### No. 25.

An account, showing the amount of water rents due and payable to the City, by the district of Kensington, on the 1st day of June next, for the year 1842, after 6 per cent. shall have been deducted, as per agreement—also an account of the number of dwellings, &c., supplied with the Schuylkill water, to the 31st of December, 1841.

							Dolls. C.	Dolls. C.
1	Water closet, -	•	-	-		-	at 1 50	1 50
1	Wash pavement,	-	-		-	-	3 00	3 00
4	Baths,		-	-	-		450	18 00
	Dwellings, -	-	-	-			7 50	327750
1			-	-	_	_	9 00	9 00
3		-	_	-	-		10 00	30 00
-	Horse, &c., &c.,	-	-			-	10 50	10 50
	Dwellings, &c.,	-	-	_	-	-	11 25	281 25
~8	Dwellings and bath	e .	-	-	•	-	12.00	96.00
1	Dyery,	.5, -	-	-	-	-	13.00	13,00
i	Dyery,	•	-	•	-	•	$13 00 \\ 13 50$	$13 00 \\ 13 50$
13	Steam enginc, -	-	•	-	-	•	$13 00 \\ 15 00$	
10		-	•	•	•			$195\ 00$
1	Tavern, &c., -	-	-	-	-	•	1625	1625
1	Dyery, -	-	-	-	-	-	17 50	1750
3	Courts, -	-	-	-	-	-	18 75	5625
1	Steam enginc, -	-	•	-	•	-	21 00	21 00
9	Laboratories, -	-	-	-	•	-	22 50	202[50]
1	Steam engine, -	-	•	-	-	-	24 00	2400
2	Courts, -	-	-	-	-	-	30 00	60 00
1	Paper factory, -	-	-	-	-	-	33 00	3300
2	Courts, -	-	-	•	-	-	37 50	75.00
1	Steam engine, -		-	-	-	•	45 00	4500
1	Court, -	-			-		48 75	48 75
1	Steam engine, &c.,	-	-		-		5625	5625
1	Factory, -		-	-	-	-	70,00	70,00
	, ,							
521	Carrie	d to Ac	count N	0. 3.	-			4673 75
	ourre				-			10.0.10

#### No. 26.

Statement, showing the quantity of iron pipes laid, and the fire plugs erected in the district of Kensington, to and including the year 1841.

Say 5 miles, or	-	-	-	-	26216 feet 3 inches.
	Fire p	lugs ered	cted in	strict.	

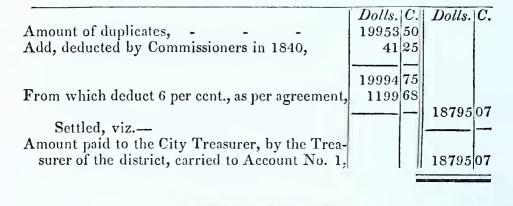
Say, fire plugs, carried to Account No. 3, - - 50

### ( 42 )

#### SPRING GARDEN.

#### No. 27.

Statement, showing the settlement of the duplicates of water rents charged to the Board of Commissioners of the district of Spring Garden, as per last Annual Report, Account No. 30.



#### No. 28.

Statement, showing the quantity of iron pipes laid in the district of Spring Garden, from the year 1826 to the year 1841, both inclusive—also the number of fire plugs erected in said period.

	Feet. In	Feet. In 83282 07
Iron pipes laid to and including the year 1840,		83282 07
6 inch, Thirteenth, from Ridge Road to Coates'		
street,	949 00	
4 inch, Wood, from Franklin to Eighth street,	245 00	
6 inch, Eleventh above Wood street, -	56 00	
		- 1250 00
Say 16 miles,		84532 07

#### Number of fire plugs erected in the district.

- No. 153, Thirteenth, north of Wallace street.
  - 154, Wood, west of Franklin street.
  - 155, Eleventh, north of Wood street. In all, 155 fire plugs—carried to Account No. 3.

#### SPRING GARDEN.

#### No. 29.

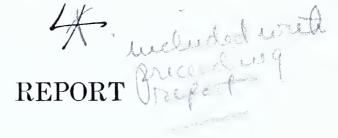
An account, showing the amount of water rents due and payable to the City, by the district of Spring Garden, on the 1st of June next, for the year 1842, after 6 per cent. shall have been deducted, as per agreement—also an account of the number of dwellings, &c., supplied with the Schuylkill water, to the 31st of December, 1841.

		<u> </u>						Dolls.	C.[]	Dolls.	$\overline{C}$ .
8	Horses, &c.,	-		-	-				50	12	
	Washer, &c.,	-		•	-	-	-		25		25
	<b>TT</b>	-		-	-	•		3	00	6	00
	Tenements, &c	2	-		-	•	-	3	75	93	75
329	Baths, -	-	_			_	-	4	50	1480	
	Porter cellar,	-					-	5	25		25
18	Dwellings,			-		-	_		00	108	
2182	Dwellings,	_	-	-	_	-	_		50	16365	
4	Vinegar yards,	&.c.,			-	-	_		00	36	
3	Soap factories,	&.c.			-	-	-		00	30	
2	Slaughter hous	ee	-	-	-	-	-		50	21	
11	Dwellings, &c.	0.09	-	-		-			25	123	
112	Dwellings, &c.	,	-						00	1344	
31	Soap factories,	8. C.	-		-	_			00	465	
1	Steam engine,	å e				-	-		50	16	
	Steam engine,				-		_		00	18	
14	Dwellings, &c.	& c			-	-	_		75	262	
2	Livery stables,	.,	-	-			-	1	00	40	
$\tilde{7}$	Taverns, &c.,	-	-				-		50	157	
3	Paper stainers,	- & 0 &	~			-	-		00	72	
1	Tavern, &c.,	acı, a	C+9	•	•	•	-		00	25	
1	Steam engine,	- 8-0	•	-	•	-	-		50	$\tilde{25}$	
	Courts, &c.,		-	•	•	-	•		25	78	-
	Steam engine,		-	•	•	•	•		$\tilde{0}0$	27	
	Tavern, &c.,		•	•	-	-	•		50	$\tilde{27}$	
	Factories, &c.,		•	•	•	•	-		00	210	
			•	•	-	-	-		75	$\frac{210}{30}$	
	Steam mill, &c Stable, -	,	-	-	-	-	-		50	31	
1	Steam engine,	- 8- 0	-	-	•	•	•		75	33	
1	Court, &c.,	æc.,	•	•	-	•	-		00	36	
1	Taverns, &c.,	-	-	•	•	•	-		50	150	
2 2	Steam mills, &	•	-	-	-	-	•		00	120	
1	Court, -	·C.,	•	•	•	-	•		00	45	
-	'	•	-	•	•	-	•		00	108	
	Tanneries,	• 	•	-	•	-	•	112		112	
1	Water wheel as	na lacto	ry,	-	-	•	-	112		300	
	Steam for rail-	oaas,	•	-	•	-	•	130		187	
1	Factory,	-	•	•	•	-	•	101	00	101	30
2789	С	arried t	o Accou	int No. 3	3,	-	-			22207	75

#### SAMUEL W. RUSH, Register.

January 1st, 1842.





# THE WATERING COMMITEE,

oF

RELATIVE TO

## **REPAIRING FAIR MOUNT DAM.**

ADDRESSED TO

THE SELECT AND COMMON COUNCILS.

PHILADELPHIA: LYDIA R. BAILEY, PRINTER. 1841.

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## REPORT.

To the Presidents and Members of the Select and Common Councils of the City of Philadelphia.

Gentlemen:

The Watering Committee beg leave to report on the necessity of Re-building Fair Mount Dam from low-water mark.

This structure was commenced on the 19th of April, 1819, and finished on the 22d of July, 1821. Its repairs for upwards of twenty years have been merely incidental. Its strength has been fully tested, and its durability proven all and more than was anticipated at its construction.

But after giving this subject the most careful examination, supported by the Report of Frederick Erdmann and M. Towers, Esqrs., herewith submitted, and by the opinion of Frederick Graff, Esq.—the Committee are satisfied that the time has arrived, when the interests of the City and adjoining Districts, require that the Dam should be re-built from low-water mark, early next year. It will be seen by the enclosed Report, that the estimated cost will be about sixty thousand dollars.

As the timber necessary for the work should not be cut later than the month of January, the Committee are induced to come to Councils at this early period for authority to contract for all materials necessary for re-building the dam, and they submit the enclosed draft of a Resolution accordingly.

*Resolved*, That the Watering Committee be and they are hereby instructed, to contract forthwith for all the materials necessary for Re-building the Fair Mount Dam.

They also beg leave to report, that they had a conference with the Trustees of the Bank of the United States, relative to the purchase of the Lemon-Hill Estate, and were informed, that they would sell the same to the City for one hundred and thirty thousand dollars, and did not feel themselves authorized to dispose of it at private sale for less:

They respectfully submit the matter for the consideration of Councils.

### JOHN PRICE WETHERILL, Chairman.

ATTEST.—SAMUEL W. RUSH, Register and Secretary.

November 11, 1841.

## **REPORT OF THE STATE OF THE DAM IN 1839.**

### To the Select and Common Councils of the City of Philadelphia.

GENTLEMEN:

Agreeably to the Resolution, passed April 11th, authorizing the Watering Committee to solicit the services of Henry Campbell, Daniel Groves, Josiah White, and Frederick Erdmann, Esqrs., to make a regular survey, and to examine the actual condition and stability of the Dam at Fair Mount, I am requested by said Committee to present their Report, agreeably to said Resolution.

> JOHN PRICE WETHERILL, Chairman of Watering Committee.

Philadelphia, September 12th, 1839.

### REPORT.

To the Watering Committee of the City of Philadelphia.

Gentlemen:

The undersigned, appointed by the Select and Common Councils to examine the Fair Mount Dam, in conjunction with the Superintendent of the Fair Mount Water Works, and under the notice of the Watering Committee, beg leave to report:— That we have made the examinations as minutely as the high stage of water would permit, and find the general condition of the dam to be sound and substantial, except the sheet-planks on the southern slope or roof of the dam, and some of the timbers in its southern face or breast, ranging between mean high-water mark and the come or top of the dam, which exhibit the only decay that can be observed in any part of the work. This portion of the dam, from its frequent exposure to the atmosphere, by reason of a low stage of water, and liability to injury from freshets and floating ice, will of course be first to fail and to require repairs.

The undersigned do not apprehend danger of immediate failure or necessity of repairs, beyond the replacing of planks, removed from the roof of the dam by freshets or otherwise. The great importance of this work to the City and Districts, however, should prevent any risk of failure for want of timely repairs, and on this account the undersigned recommend that the roof and upper part of the dam, within the triangle above the line a bin the annexed Figure 1, be renewed within the years 1840 or 1841. These repairs can readily be made, at small expense, without disturbing the main body of the dam, or causing inconvenience or risk, by renewing sections of one or two hundred feet at a time.

The dam has settled in the deep sections of the river some inches below its original level, by the compression of the timber of which it is constructed, and the great weight it sustains. No danger is to be apprehended from this fact, but it has been necessary to maintain the proper head of water in the dam, by raising the rubble backing above the present come of the dam. This rubble is liable to removal in times of freshets. By the repairs proposed, the original level of the dam can be restored, and the work rendered permanent and secure for many years to come.

The present shape of the roof, or upper section of the dam, is represented in the accompanying Figure 1. It is suggested by the undersigned to change the form of this section to that represented by the Figure 2. By this change less surface will be exposed to decay in low stages of water, and less liability to accident and violence from ice or other floating bodies passing over the dam.

It may be necessary at some future day to strengthen the dam by additional cribs in front of the present structure, to be filled with stone, and united to the present dam, as suggested by Mr. Frederick Graff, the present engineer of the Works. When this addition is made, it is recommended that the sectional shape, represented in Figure 2, shall be preserved, as preferable to the shape of Figure 1. The undersigned do not deem this precaution necessary now, or so long as the lower timbers remain sound. If constructed now, the operation of decay would commence long before such an addition would be necessary. The undersigned do not deem any general repairs necessary, beyond those suggested, for many years to come.

It does not appear that the dam has sustained any injury from the great ice-freshet of last winter, beyond the removal of a few sheet-planks, which have been left off until the present time to facilitate the present examination.

All of which is respectfully submitted.

H. R. CAMPBELL, JOSIAH WHITE, DANIEL GROVES, F. ERDMANN.

Phila., September 12th, 1839.

Fig. 1.

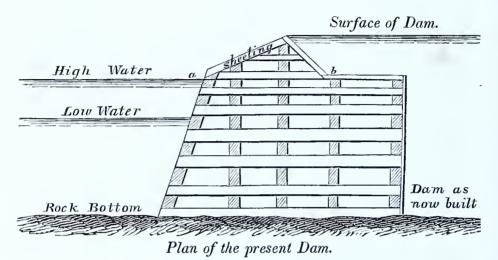


Fig. 2.

			Surface of Dam.				
			_				
High Water	r ak		b	V////	1		
		///		0///			
Low Water	r [///			V///			
					1		
Rock Bottom					Proposed alteratio		

Plan approved by Messrs. Erdmann and Towers in their Report. That part which is coloured they propose to be re-built of white pine timber, with a roofing of white oak.

### $\mathbf{R} \mathbf{E} \mathbf{P} \mathbf{O} \mathbf{R} \mathbf{T} \quad \mathbf{O} \mathbf{F} \quad \mathbf{184'1}.$

9

### To the Gentlemen of the Watering Committee.

In compliance with your orders to have an examination of the present state of the dam by competent persons, for the purpose of ascertaining the repairs requisite for its being put into a perfect condition, and also to obtain from them an estimate of the probable cost, I appointed Mr. F. Erdmann and Mr. Michael Towers, who have carefully attended to the subject. The questions submitted to those gentlemen, together with their report, are herewith annexed.

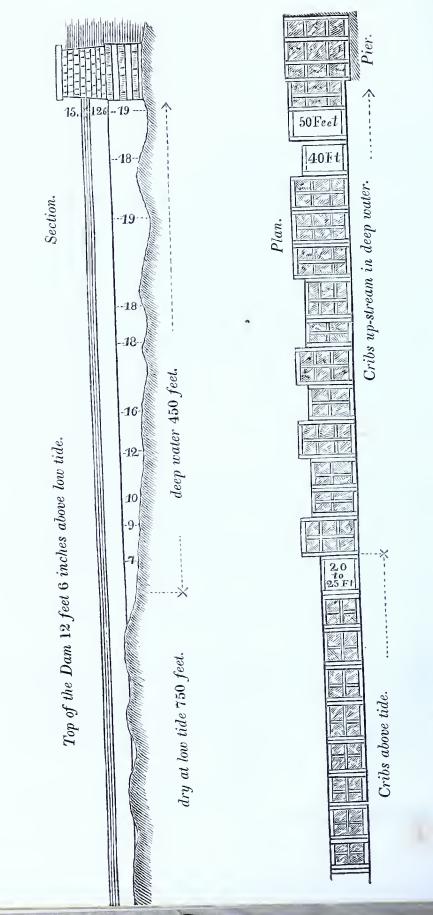
In relation to the capacity of these gentlemen, I will observe, that Mr. Erdmann was engaged in the erection of the mill-buildings at Fair Mount, in 1820 and 1821, at which time he planked the front facing of the dam; in 1830, he re-planked the top surface or roof of the dam, which was decayed; since then, he has with other gentlemen made several examinations of its condition; consequently, he is fully acquainted with its structure from its first erection to the present time.

Mr. Towers erected a new dam at Flat-Rock, in 1840, and previously one at Norristown; these, with the successful erection of the new lock at Fair Mount, and other work done for the Schuylkill Navigation Company, give entire satisfaction.

Your humble servant,

FREDERICK GRAFF.

November 3d, 1841.



### Explanations and Questions handed to Messrs. Erdmann and Towers.

The dam is 1200 feet long, and the whole is built on the rock bottom, 450 feet of which is in deep water; it averages below low-tide about 14 feet 3 inches in depth, and from low-tide to the top or comeing of the dam 12 feet 6 inches, making the average height of the dam from bottom to top in deep water, 31 feet 6 inches.

From the deep water line, the dam westward is dry at low-tide, the highest part from the rock bottom is about 12 feet 6 inches, and the lowest about 10 feet, making an average of this part of the dam of 11 feet 3 inches high, and about 750 feet long.

The cribs in the deep sections of the river run up stream varying from 40 to 50 feet, and in the shoal part of the river from 20 to 25 feet. They are built of hemlock, and filled with stone, planked over on the top and up stream front with 3 inches hemlock joist. The whole is then backed and covered over to the top surface of the dam with stone, rubble, and gravel.

The crib-work below the tide, from various examinations, is supposed to be firm and sound; above tide, the timber appears also to be good, say half-tide or 3 feet up; from thence, to the roofing or top of the dam, the timber framing is in a decayed or decaying condition; near the top it is rotten, and has become soft, except where the timber was unusually hearty.

The above is believed to be the true state of the dam, which, with the examinations you have made, will enable you to give an opinion in what manner it can best be repaired or re-built—with an estimate of the probable cost of putting it in perfect order with the best materials.

Also please state the plan you would adopt in case of repairing the old dam; as to the distances or sections that should be done at a time, and the manner of security that would be necessary to guard the work from injury by freshets, when a section would be taken asunder; and what method will be preferable for the western end of the dam, whether to repair the old part, or build a new structure in front of it.

Should you deem any other plan preferable to that of repairing the present dam, you will please suggest it, with the probable cost and manner you would recommend it to be done.

Your early attention to the above will confer a great favour on

Yours, respectfully,

### FREDERICK GRAFF.

October 11, 1841.

Philadelphia, Nov. 3d, 1841.

FREDERICK GRAFF, ESQ. Superintendent of the Philadelphia Water Works.

DEAR SIR:

Agreeable to your request, the undersigned beg leave to return the following in answers to the questions proposed by you in relation to repairing or re-building the Fair Mount Dam.

From our recent examination as well as a prior knowledge of the dam, the undersigned are led to the opinion, that the present superstructure from low-water up to the top, could not be repaired without the erection of coffer-dams, thereby incurring the same expense in preparing for the work as in re-building that portion of the dam; and when finished, should there be any of the old hemlock timber remaining above low-water, it must reasonably be expected, that it will decay long before that in the new work, particularly should it be repaired with a more durable material.

The undersigned believing the dam below the range of low tide to be perfectly sound, they are of the opinion that the only plan which should be pursued, is to rebuild the whole of the dam from low-water up; should that be determined on, the undersigned beg leave to recommend the white pine timber, as being the most durable for all work of the kind above low-water, excepting the sheeting or upper planking, which should be of oak 10 inches thick at the comeing, and reduced to 5 inches at the up-stream end.

The plan of dam as proposed in Figure 2, in the report on the dam of September, 1839, we conceive to be best calculated to preserve the timber, as it presents less surface for decay; we therefore recommend the adoption of that plan when the dam is renewed.

The plan we would recommend for the operation of coffer-daming, is to dam in two sections of 150 feet each, that two sets of hands may work alternately; we are further of the opinion, that 300 feet is as much of the overfall as should be occupied at one time during the progress of the work.

We would propose constructing the coffer-dams of the backing and stone-filling of the present superstructure, by removing the backing up stream, and raising it from 5 to 6 feet above the present height of the water, forming an angle on the down stream side of degrees, to low-water line based upon the rock, and in the deep water upon the deck of the long cribs, and firmly secured at the bottom with timber, and planking up the angle of the bank, and built in with a slope dry wall of 4 to 5 feet thick, made with the stone in the present superstructure; this would not only make a safe barrier against freshets, but would relieve the work whilst in progress of that material, which can be returned when the new work is ready to receive it.

In relation to the western angle or section of the dam, we are of the opinion, that that portion of the old dam should be let remain, and a new section erected in front of it, and connected with the main line of the dam when it is rebuilt, and also to build an abutment in rear and connected with the old pier; this would be the cheapest and most ready mode of finishing that portion of the work, without interfering with the navigation of the canal.

Should it be deemed necessary at any future period, or on taking down the old dam should any defect be discovered which would require additional security to be given to that portion of the dam remaining below low-water, the undersigned would recommend a range of strong crib-work being sunk in front of the old dam, filled with stone, and decked over with a strong logsheeting, at low-water, as being the only mode of adding permanent strength to that portion of the dam, as it will always remain sound, and stop the action of the undertow against the face of that part of the old work.

After taking a full and deliberate view of the whole matter, both as regards the importance of security to the City, as well as the necessity of guarding against all failure in the operation of the work, and the cost of the whole, the undersigned believe they have now said all that is necessary on the subject; and as regards the manner the proposed work should be done, whether by contract for the whole, by measurement as per wharf-builders, or by the day, the undersigned beg leave to say, that the nature of the work does not admit of being measured by any rule of wharf-builders' measurement; and in taking into view the variety of work contracted for in the public improvements of this State, and the amount of bad work done, leads the undersigned to believe, that in the present case, where so much depends on proper management and construction of the work, that it would not be good policy to let it on contract; but are fully satisfied, that all public work done by the day under proper superintendence, has given more satisfaction; we would therefore recommend the latter plan as the best in this particular case.

The whole of which we respectfully submit, together with the following estimate of the cost, which includes all work and materials, except the proposed crib-work in front of the dam below low-water, which amount is \$60,498 36.

Signed,

F. ERDMANN, MICHAEL TOWERS.

### Opinion of Mr. Frederick Erdmann, in relation to delaying the proposed repairs to Fair Mount Dam.

DEAR SIR:

As you have lately examined the state of the Dam at Fair Mount, and know its present condition, allow me to ask if you think it might be relied upon *as it now stands*, for another year?

Yours, respectfully,

## FREDERICK GRAFF.

November 9, 1841.

Mr. Frederick Erdmann.

FREDERICK GRAFF, ESQ.

DEAR SIR:

On my return this evening in the cars from Schuylkill Haven, I received your note of yesterday. Your question in relation to the dam, is of too much importance to the City to permit me to give an opinion in favour of delaying the repairs. It will require two seasons to accomplish the work after being commenced; a delay of one year in commencing, would leave the last portion of the dam nearly three years standing from the present time (*embracing the breaking-up of two winters*). Permit me therefore, to say, I am of the opinion the repairs should not be left over another year before being commenced. Should, however, it be found on taking down the first section that its situation would warrant delay, it could then be deferred.

I am, with great respect,

Yours, &c.,

F. ERDMANN.

November 10th, 1841.

### To the Watering Committee.

#### Water Office, Cherry Street, Dec'r. 1, 1841.

GENTLEMEN:—In answer to the Resolution of the Watering Committee of November 23, requesting me to give an opinion in relation to the present state of the Dam at Fair Mount, and the best manner it could be repaired, I have only to say, I approve of the plan of repairs that has been suggested by Messrs. Erdmann and Towers in their Report of November 3, which has been handed to the Committee, and laid before Councils.

By reference to the printed Reports made by a number of gentlemen on the state of the dam, in September, 1828, one will be found made by me; since that time, my observations on the wear and tear of the structure, have not changed my opinion as to the manner it should be repaired.

In relation to the Report on the Dam made by Messrs. Campbell, White, Groves, and Erdmann, in September, 1839, they recommended what may be considered a partial repair, "which" they say, "can be readily made at a small expense;" but under all considerations, would it be prudent to make such repair, by building as they recommend, "the roof and upper part of the dam" on a hemlock base which has stood exposed to wind and weather between the tides, subject to the freshets, ever since the year 1821? when by a reasonable additional expense and labour in taking down the hemlock face to low-tide, the dam may be made more permanent and secure than it ever was, owing to the old logs having been framed so far asunder as to cause the necessity of planking the front, to prevent the stone-filling from washing out from between them.

Your humble servant,

FREDERICK GRAFF.

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