

METER OPERATIONS DIVISION

OVERVIEW OF THE 2019-2020 METER OPERATIONS PROGRAMS



AGING METER REPLACEMENT

- CURRENTLY REPLACEMENT IS PRIORITIZED BY AGE.
- MOVING TOWARDS REPLACEMENT BASED ON CUSTOMER USAGE PROFILE.
- THE FOUR YEAR METER CONTRACT PROVIDES A CONTINIOUS SUPPLY OF METERS.

Meter Operations Meter Aging Report Time run: 8/27/2019 1:41:03 PM

# of Account															ounts	# of Acc	
# OI ACCOUNT	16"	5/8 X 3/4"	24"	18"	12"	10"	8"	7.5"	6"	4"	3"	2"	1 1/2"	1"	3/4"	5/8"	Meter Age
8,13							2		9	15	21	147	141	564	1,437	5,796	5
6,66					1	1	3		19	14	21	178	107	356	1,131	4,833	6
7,95					3		4		19	19	25	135	172	629	1,355	5,595	7
7,69									3	5	4	108	184	503	1,308	5,576	8
34,75						1	1		5	5	9	265	391	1,488	6,146	26,446	9
37,12						5	8		28	45	61	458	544	2,566	7,897	25,508	10
18,41						10	12		78	209	266	191	151	882	2,699	13,916	11
10,30						1	2		6	4		129	119	814	1,820	7,408	12
7,21						2	2		5	14	6	104	109	441	960	5,567	13
3,06									4	17	20	47	120	162	481	2,212	14
4,83									17	11	20	61	73	272	737	3,639	15
6,42						2			9	17	14	100	89	305	1,027	4,857	16
5,82									4	13	18	128	97	239	939	4,384	17
3,67									1	13	10	70	41	142	662	2,737	18
2,69						3			4	12	8	44	39	172	506	1,906	19
2,96									6	4	11	29	44	189	533	2,152	20
48,03	1	18	1	1	1	8	19	1	65	122	166	722	548	2,391	8,479	35,492	Less Than 5 Years
26,31									22	23	34	302	316	1,315	5,844	18,461	Older Than 20 Years
242,07	1	18	1	1	5	33	53	1	304	562	714	3,218	3,285	13,430	43,962	176,485	Grand Total



Summary Financial Metrics



Month Ended Fiscal Quarter		Jul-18 2019.Q1	Aug-18 2019.Q1	Sep-18 2019.Q1	Oct-18 2019.Q2	Nov-18 2019.Q2	Dec-18 2019.Q2	Jan-19 2019.Q3	Feb-19 2019.Q3	Mar-19 2019.Q3	Apr-19 2019.Q4	May-19 2019.Q4	Jun-19 2019.Q4
	Target	269,000	273,100	270,500	233,800	224,500	206,500	226,600	216,400	213,300	223,100	211,000	240,200
Water Volumes	Actual	372,613	302,476	221,531	215,105	232,770	202,686	227,697	232,094	218,435	208,812	204,605	
	Status												
	Target	178,000	178,000	178,000	178,000	178,000	178,000	178,000	178,000	178,000	178,000	178,000	178,000
Total Active Meters	Actual	177,027	176,729	176,573	176,594	176,538	176,379	177,094	177,495	178,805	179,400	178,905	179,099
	Status	•											*

2,072 INCREASE IN ACTIVE METERS



METER REPLACEMENT COMPARISON

 7,909 METERS OF ALL SIZES WERE REPLACED IN 2018.

Ī	Meter	Installed	Year	2018	•

	Mete	er Installatio	ons by	y Size	:												Totala by Month
Meter Installed Month	16"	5/8 X 3/4"	24"	18"	12"	10"	8"	7.5"	6"	4"	3"	2"	1 1/2"	1"	3/4"	5/8"	Totals by Month
Jan									2	2	2	10	6	40	115	481	658
Feb									1		3	13	11	28	73	444	573
Mar									1	2	3	11	4	49	110	564	744
Apr							3		5	7	3	13	10	28	112	537	718
May										4	4	12	7	33	127	543	730
Jun										3	2	14	11	36	110	591	767
Jul									1	2	5	2	1	27	102	505	645
Aug										5	4	7	10	30	112	601	769
Sep							1			4	6	22	14	32	96	466	641
Oct							3		2	12	7	12	11	24	178	510	759
Nov		1					1		1	1	3	5	14	15	90	376	507
Dec						1					6	4	4	7	69	307	398
Grand Total		1				1	8		13	42	48	125	103	349	1,294	5,925	7,909



METER REPLACEMENT COMPARISON

- 7,062 METERS OF ALL SIZES HAVE BEEN CHANGED OUT AS OF AUGUST 30, 2019.
- THERE HAS BEEN AN INCREASE OF 1,458 METERS INSTALLED WHEN COMPARING THE FIRST EIGHT MONTHS OF 2019 TO 2018. A 26% INCREASE.
- BASED ON ACTUAL PERFORMANCE, METER PURCHASE ESTIMATES WERE SCALED BACK FROM \$4 MILLION TO \$1.2 MILLION OF THE CIP ALLOWANCE.



	Meter Installations by Size														Tatala bu Manth		
Meter Installed Month	16"	5/8 X 3/4"	24"	18"	12"	10"	8"	7.5"	6"	4"	3"	2"	1 1/2"	1"	3/4"	5/8"	Totals by Month
Jan		3								4	9	10	10	8	89	367	500
Feb		4								1	3	14	5	-11	204	586	828
Mar		1					1				6	11	10	4	181	615	829
Apr		3							2	6	3	9	8	22	229	666	948
May	1	2									3	21	11	45	323	739	1,145
Jun									1	3	3	23	8	40	177	648	903
Jul		2									1	19	10	35	166	664	897
Aug		2							3	3	2	14	15	144	147	682	1,012
Grand Total	1	17					1		6	17	30	121	77	309	1,516	4,967	7,062



LARGE METER REPLACEMENT

- 492 METERS REPLACED FROM JULY 2018 TO JULY 2019.
- TEST RESULTS HAVE BEEN COMPILED AND ARE CURRENTLY BEING ANALYZED.

DWSD Large Meter Installation Work Orders July 2018 - July 2019

MONTH	JOBS
JULY	16
AUG	34
SEPT	55
OCT	56
→ NOV	50 WEEK 4: BURTON WORKING ON DMA PROJECT
DEC	24 WEEK 4: SELF INSTALLED 68 METERS @ GRISWOI
JAN	40
FEB	33
MAR	35
APR	33
MAY	39
JUNE	33
JULY	44
TOTAL	492

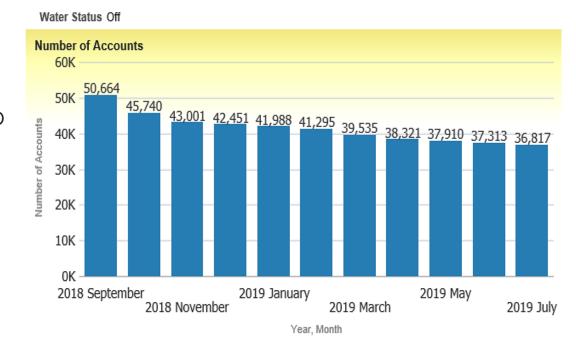


NON-AMI ACCOUNT IDENTIFICATION AND REPLACEMENT

- WORKING WITH THE DETROIT LAND BANK IN IDENTIFYING BUYERS OF PROPERTY IN THEIR INVENTORY.
- PROCESSED 16,817 PREVIOUSLY UNREPORTED DEMOLISHED STRUCTURES THROUGH THE DEMOLITION CLEAN UP PROJECT.
- REDUCED NON-AMI ACCOUNTS THROUGH DATA CLEAN UP AND METER INSTALLATION FROM 50,664 IN SEPTEMBER 2018 TO 36,817 IN JULY 2019.

Non AMR Trend Water Off

Time run: 8/29/2019







2019 - 2020 BUSINESS PROCESS IMPROVEMENTS

METER DATA MANAGEMENT PROGRAM

METER TESTING

- SMALL METER TEST BENCH HAS BEEN INSTALLED AND STAFF CERTIFIED.
- LARGE METER TEST BENCH APPROVED BY THE BOWC IN AUGUST 2019.
- INSTALLATION AND INTERGRATION WITH SMALL BENCH AND DWSD SOFTWARE TO BE COMPLETED BY THE END OF 2019.
- UPDATED METER MANUALS AND TESTING PROTOCOLS AS RECOMMENDED BY VEOLIA.





METER COMPLIANCE PROGRAM

TARGETED POPULATIONS IDENTIFIED AND ACTIONS TAKEN

- ASSIGNED DEDICATED STAFF TO ADDRESS AMI ACCOUNTS THAT ARE SENDING TAMPER ALERTS.
- NON-AMI ACCOUNTS THAT ARE EITHER OWNED BY THE DETROIT LAND BANK OR PRIVATELY HELD.
- UPDATED COMPLIANCE PROTOCOLS DESIGNED TO REDUCE RELIANCE ON SERVICE INTERRUPTIONS AND INCREASE INTERACTIONS WITH THE REVENUE PROTECTION UNIT (RPU) IN ORDER TO GAIN COMPLIANCE.
- ABILITY TO ASSESS A MISSED APPOINTMENT FEE
 FOR REPEATED MISSED APPOINTMENTS (fee will not be
 applied for 1st missed appointment and will be waived for legitimate
 reasons).







THANK YOU!

Detroit Water & Sewerage Department

Email: GARY.WATKINS@DETROITMI.GOV

Phone: 313-267-8000

For more information visit: www.detroitmi.gov/dwsd

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