

North Green Municipal Utility District

WATER DISTRIBUTION SYSTEM SUMMARY

March 2022

HGCSD Permit No. Pending	City of Houston GRP
Permit Period	01/01/2022 to 12/31/2022
Year to Date Pumpage	39,282,000
Monthly Pumpage	14,098,000
Cumulative Monthly Average 3 Months	13,094,000
Daily Average Pumpage	455,000
Water Accountability	Current Month 97.40% - YTD 97.73%
Water Bacteriology	Date Taken & Results of Analyses
Number of Samples: 3	3/15/22 No Coliforms Detected
Number of Samples: 3	3/18/22 No Coliforms Detected
Number of Samples:	
Comments: All good.	

TCEQ MONTHLY REPORT
Water Works Operation for
Ground water Supplies

Send Reports To: TCEQ
P.O. Box 13087
Austin, TX 78711-3087

Name of system North Green MUD County Harris

Water System I.D. No. 101-0331 Month of: March 2022

Day of Month	Pumpage to Distribution System in Thousand Gals.				Disinfection		Corrosion Control	Other Treatment	Fluoride Residuals
	Direct from Wells	From Gnd. Storage	Purchased from Others	Total Pumpage	Entry Point	Dist. System			
1	521			521	1.2	1.2			
2	415			415	1.4	1.3			
3	446			446	1.4	1.4			
4	363			363	1.5	1.2			
5	448			448	1.4	1.3			
6	525			525		1.3			
7	527			527	1.5	1.3			
8	424			424	1.5	1.4			
9	295			295	1.5	1.4			
10	400			400	1.5	1.3			
11	589			589	1.4	1.2			
12	357			357	1.4	1.3			
13	377			377		1.3			
14	379			379	1.5	1.3			
15	737			737	1.2	1.2			
16	343			343	1.4	1.2			
17	430			430	1.4	1.3			
18	470			470	1.5	1.3			
19	357			357	1.5	1.4			
20	538			538		1.2			
21	537			537	1.3	1.2			
22	348			348	1.2	1.0			
23	529			529	1.2	1.2			
24	408			408	1.4	1.3			
25	347			347	1.0	1.1			
26	470			470	1.3	1.3			
27	551			551		1.1			
28	552			552	1.5	1.5			
29	616			616	1.6	1.5			
30	380			380	1.5	1.4			
31	419			419	1.6	1.4			
TOTAL:	14098			14098					
AVG.:	455			455	1.4	1.3			
MAX.:	737			737	1.6	1.5			
Min.:	295			295	1.0	1.0			

Calendar Year to Date	39,282	0	0	39,282
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0	# below	in disinfectant	0.2
0.0%	% below minimum	disinfectant	
0	# = 0	sample days	31
0.0%	% of 0s	# of samples	31.0

No. of active water services: 361 Total: 375 Chemical analysis: 12/6/2016
Dates and results of distribution bacteriological analysis: 3/18/2022
Dates and results of raw unchlorinated well water samples: _____
Reservoirs or tanks cleaned: as needed Dead ends flushed: 3/1/2022
General remarks: _____

Submitted by: David B. Rowe (18) Certificate no.: WO 0004001

2798, 2799, & President, Water District Management
well #: 3572

DISINFECTANT LEVEL QUARTERLY OPERATING REPORT (DL QOR)

FOR GROUNDWATER OR PURCHASED-WATER PUBLIC WATER SYSTEMS--ANY SIZE

Please print or type. Forms that are not readable will not be processed.

Select Quarter: 1st Jan / Feb / Mar

Select Year: 2022

PWS Name: North Green MUD	PWS ID: 101-0331
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Type of Disinfectant Used in Distribution System* Chlorine (Free)

* If you used chloramines and free chlorine at any time during this quarter, select both.

First Month of Quarter: Monthly Summary

Month: January

Was the PWS active this month? Yes No

Average of all disinfectant residuals for this month	Number of residuals collected this month	Number below MIN for this month	Number with NO residual for this month
1.4 mg/L	31 readings	0 readings 0.0%	0 readings 0.0%

Second Month of Quarter: Monthly Summary

Month: February

Was the PWS active this month? Yes No

Average of all disinfectant residuals for this month	Number of residuals collected this month	Number below MIN for this month	Number with NO residual for this month
1.3 mg/L	28 readings	0 readings 0.0%	0 readings 0.0%

Third Month of Quarter: Monthly Summary

Month: March

Was the PWS active this month? Yes No

Average of all disinfectant residuals for this month	Number of residuals collected this month	Number below MIN for this month	Number with NO residual for this month
1.3 mg/L	31 readings	0 readings 0.0%	0 readings 0.0%

Quarterly Summary and Certification

Average of all disinfectant residuals for this quarter	Lowest residual for this quarter	Highest residual for this quarter
1.3	0.7	2.2

I certify that I am familiar with the information contained in this report and that, to the best of my knowledge, the information is true, complete, and accurate.

Signature: Dustin Roberts

Date: April 7 , 2022

Print Name: Dustin Roberts

Title: Compliance Manager, Water District Management

281-734-6820

License #: WG0018450

Email address: droboterts@wdmtexas.com

Complete this DL QOR for the previous quarter at the beginning of April, July, October, and January; and submit it to be received by the TCEQ by the 10th of the month.

Always print and sign form, and keep a copy with your records for TCEQ review.

TCEQ / PDW MC-155

**Attn: DL QOR
PO Box 13087
Austin, TX 78711-3087**

North Green MUD

HGCSD Permit Period

Water Usage Summary

Reporting Period			Year to Date Jan. - Dec.
February 15	to March 15	2022	
Water billed	metered - billed	11,619,000	36,052,000
Temporary Service	metered - billed		0
Water leaks	estimated		583,200
Stuck Meters	estimated		0
	estimated		0
GST overflow NOT PLANNED	estimated		0
GST emptied / fill PLANNED	estimated		0
Flushing	estimated	34,420	114,010
	estimated		0
Sewer jetting	estimated		2,800
No Bill Accounts	metered - not billed	11,000	35,000
WWTP	metered - not billed	328,000	1,259,000
	metered - not billed		0
Water to:			0
Total water accounted for:		11,992,420	38,046,010
Water pumped:		12,312,000	38,929,000
Water from:		0	0
Accountability		97.40%	97.73%
Actual Billed vs. Pumped:		94.37%	92.61%

North Green Municipal Utility District

WASTEWATER TREATMENT PLANT MONTHLY OPERATING SUMMARY

March 2022

TPDES Permit No. WQ0012206-001		Permit Expires: 12-01-2022			
NPDES Permit No. 83381-001					
		Average		Maximum	Excursion
Flow:	Actual MGD	0.303		0.428	NO
	Permitted MGD	0.600	51%	N/A	
	Monthly Total	9.407	MG	Annual Average	0.339
CBOD₅:					
	Actual	4.2 lbs/day	2.0 Mg/L	2.1 Mg/L	NO
	Permitted	50.0 lbs/day	10.0 Mg/L	25.0 Mg/L	
TSS:					
	Actual	4.4 lbs/day	2.2 Mg/L	3.8 Mg/L	NO
	Permitted	75.0 lbs/day	15.0 Mg/L	40.0 Mg/L	
NH₃N					
	Actual	0.3 lbs/day	0.1 Mg/L	0.2 Mg/L	NO
Permitted Required Monitoring Only					
E.coli					
	Actual	2.0		2.0	NO
	Permitted	63 MPN/100ml		200 MPN/100ml	
Cl₂ Residual:					
	Actual	Minimum		Maximum	
		1.7 Mg/L		3.6 Mg/L	NO
	Permitted	1.0 Mg/L		4.0 Mg/L	
Biosolids Management: Magna Flow transported 63,000 gallons in March.					
Comments: All good.					

Parameter		NODI	Quantity or Loading			Quality or Concentration			# of Ex.	Freq. of Analysis	Smpl. Type			
Code ▲	Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3				Units		
50060	Chlorine, total residual	Smpl.				=	1.7	=	3.6	mg/L	0	01/01	GR	
1 - Effluent Gross														
Season: 0	Req.					>= 1.0 Monthly Minimum			<= 4.0 Monthly Maximum	Milligrams per Liter		Daily	GRAB	
NODI:		NODI												
51040	E. coli	Smpl.				=	2.0	=	2.0	CFU/100mL	0	02/30	GR	
1 - Effluent Gross														
Season: 0	Req.					<= 63.0 Daily Average			<= 200.0 Daily Maximum	Colony Forming Units per 100ml		Twice Per Month	GRAB	
NODI:		NODI												
80082	BOD, carbonaceous [5 day, 20 C]	Smpl.	=	4.2	lb/d	=	2.0	=	2.1	mg/L	0	01/07	CP	
1 - Effluent Gross														
Season: 0	Req.		<= 50.0 Daily Average		Pounds per Day		<= 10.0 Daily Average		<= 25.0 Daily Maximum	Milligrams per Liter		Weekly	COMPOS	
NODI:		NODI												

Edit Check Errors

No results.

DMR Comments

FOR TOTAL KJELDAHL NITROGEN SEE OTHER REQUIREMENT SECTION, NO. 4, ON PAGE 34 OF THE PERMIT.

Comments

Attachments

No results.

Report Last Saved By

User: brian.eastex@yahoo.com
 Name: Brian Sewell
 E-Mail: brian.eastex@yahoo.com
 Date/Time: 04/06/22 3:54 CDT



P.O. Box 1089 Coldspring, Texas 77331

Website: eastexlabs.com

Email: eastexlab@eastex.net

Tel: 936 653 3249



Laboratory Analysis Report

Client: North Green MUD
Water District Management
P.O. Box 579
Spring, TX 77383

**FINAL
REPORT**

Project ID: North Green Effluent
Report for: March, 2022
Customer ID: C-NOR8
Page 1 of 3

SAMPLING DATA	DATE COLLECTED	3/2/2022	3/2/2022	3/2/2022	3/9/2022	3/9/2022	3/16/2022
	DATE RECEIVED	3/2/2022	3/2/2022	3/2/2022	3/9/2022	3/9/2022	3/16/2022
	TIME COLLECTED	9:00	9:00	10:18	9:00	10:22	9:00
	SAMPLING POINT	Effluent	Effluent	Effluent Grab	Effluent	Effluent Grab	Effluent
	TYPE OF SAMPLE	Composite	Composite	Grab	Composite	Grab	Composite
	COLLECTED BY	WDM	WDM	JPM	WDM	JPM	WDM
	SAMPLE NUMBER	C2C0593-01	C2C0595-01	C2C0594-01	C2C2335-01	C2C2336-01	C2C3981-01
FIELD DATA		3/2/2022	3/2/2022		3/9/2022		3/16/2022
		10:18	9:00		10:22		10:25
SM 4500 O G	DO (mg/L)	JPM 6.9	Clie		JPM 6.8		JPM 6.8
	Flow (MGD)	0.212	0.212		0.176		0.251
SM 4500 H + B	pH (std unit)	7.1			6.8		7.0

ANALYSIS DATA

Ammonia as N mg/L *A	Results Analysis Date Analyst	0.2 3/3/2022 15:54 TDS			0.1 3/11/2022 10:35 TDS		<0.1 3/17/2022 13:59 TDS
CBOD 5 mg/L *A	Results Analysis Date Analyst	<2.0 3/3/2022 7:55 TRH			<2.0 3/10/2022 8:00 SAC		<2.0 3/17/2022 8:05 SAC
E coli IDEXX mpn/100ml *A	Results Analysis Date Analyst			2 3/2/2022 16:20 ACW		<2 3/9/2022 16:02 ANP	
Total Phosphorus mg/L *A	Results Analysis Date Analyst		3.52 3/7/2022 15:08 LAN				
TSS mg/L *A	Results Analysis Date Analyst	1.4 3/3/2022 10:56 KRT			3.8 3/10/2022 11:50 WLS		1.5 3/17/2022 14:37 KRT

*NELAC Status: A=Accredited, N=Accreditation not offered, O=Not Accredited, P=Approved



P.O. Box 1089 Coldspring, Texas 77331

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Laboratory Analysis Report

Client: North Green MUD
 Water District Management
 P.O. Box 579
 Spring, TX 77383

Project ID: North Green Effluent
 Report for: March, 2022
 Customer ID: C-NOR8
 Page 2 of 3

SAMPLING DATA	DATE COLLECTED	3/23/2022	3/30/2022			Method No.	
		DATE RECEIVED	3/30/2022			Avg	Max #/Day
	TIME COLLECTED	9:00	9:00				
	SAMPLING POINT	Effluent	Effluent				
	TYPE OF SAMPLE	Composite	Composite				
	COLLECTED BY	WDM	WDM				
	SAMPLE NUMBER	C2C5382-01	C2C6834-01				
FIELD DATA		3/23/2022	3/30/2022				
		10:32	10:55				
		JPM	JPM				
SM 4500 O G	DO (mg/L)	6.9	7.1				
-	Flow (MGD)	0.317	0.271				
SM 4500 H + B	pH (std unit)	7.2	7.2				

ANALYSIS DATA

Ammonia as N mg/L *A	Results Analysis Date Analyst	0.2 3/28/2022 11:40 TDS	0.1 3/31/2022 13:06 TDS			SM 4500 NH3 G 0.140 0.2 0.293
CBOD 5 mg/L *A	Results Analysis Date Analyst	2.1 3/24/2022 8:00 SAC	<2.0 3/31/2022 8:00 SAC			SM 5210 B 2.02 2.1 4.15
E coli IDEXX mpn/100ml *A	Results Analysis Date Analyst					Colilert 18 GeoMean 2.00
Total Phosphorus mg/L *A	Results Analysis Date Analyst					EPA 200.7 3.52 3.52 6.22
TSS mg/L *A	Results Analysis Date Analyst	3.2 3/24/2022 12:03 WLS	1.1 3/31/2022 13:12 KRT			SM 2540 D 2.20 3.8 4.43

*NELAC Status: A=Accredited, N=Accreditation not offered, O=Not Accredited, P=Approved

North Green MUD

Annual Flow Calculation

March 2022

Month & Year	Monthly Flow
April 2021	11.034 MG
May 2021	10.176 MG
June 2021	12.064 MG
July 2021	11.425 MG
August 2021	10.470 MG
September 2021	10.620 MG
October 2021	10.480 MG
November 2021	9.523 MG
December 2021	9.900 MG
January 2022	10.041 MG
February 2022	8.764 MG
March 2022	9.407 MG
*12 Month Flow Total	123.904 MG
**Annual Daily Average	0.339 MG

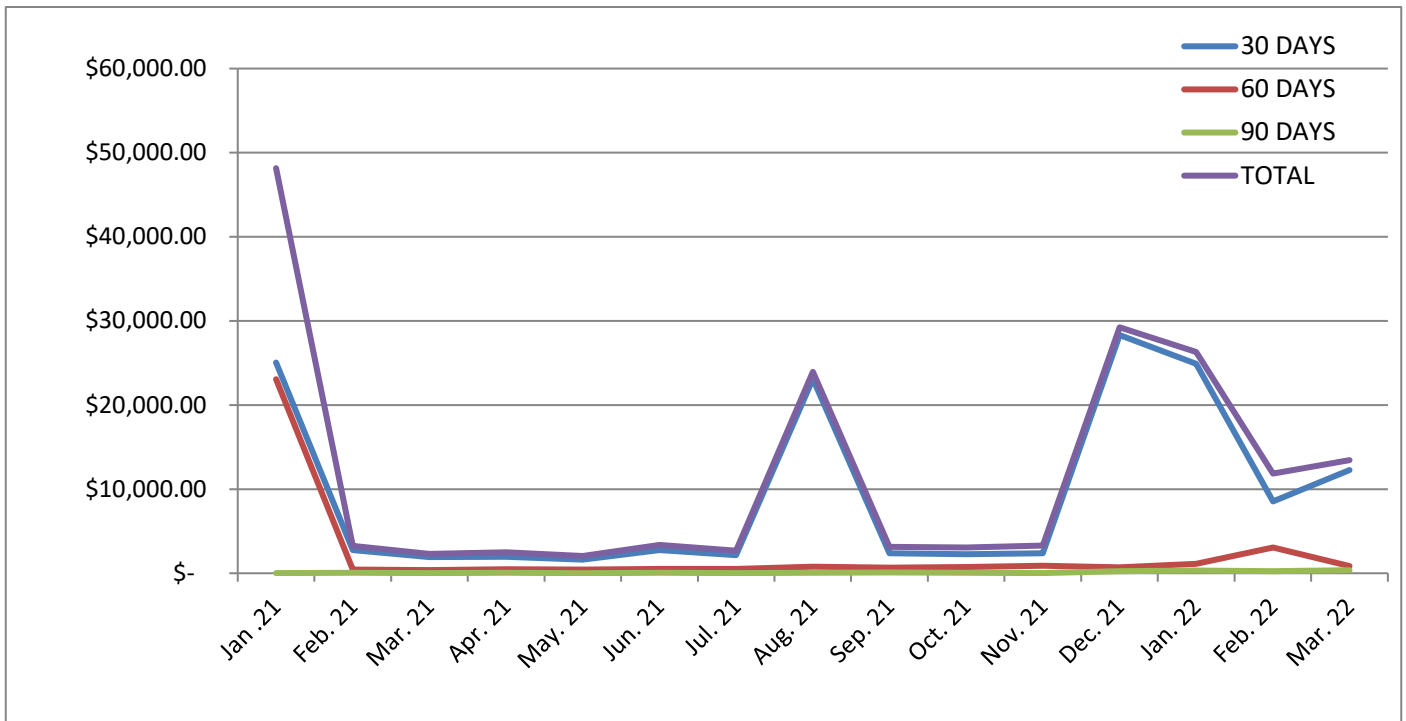
*12 Month Flow Total - Represents the combined Monthly Flow for the 12 months as listed.

**Annual Daily Average - calculated daily average flow based on the preceding 12 Month Flow Total divided by 365 days.

NORTH GREEN MUD

ARREARS ANALYSIS

DATE	30 DAYS	60 DAYS	90 DAYS	TOTAL
Jan .21	\$ 25,059.27	\$ 23,068.24	\$ 28.21	\$ 48,155.72
Feb. 21	\$ 2,761.22	\$ 437.03	\$ 57.70	\$ 3,255.95
Mar. 21	\$ 1,915.49	\$ 376.73	\$ 6.23	\$ 2,298.45
Apr. 21	\$ 1,973.69	\$ 459.40	\$ 66.01	\$ 2,499.10
May. 21	\$ 1,618.46	\$ 427.07	\$ 5.58	\$ 2,051.11
Jun. 21	\$ 2,774.39	\$ 529.94	\$ 51.92	\$ 3,356.25
Jul. 21	\$ 2,165.45	\$ 501.38	\$ 32.83	\$ 2,699.66
Aug. 21	\$ 23,095.66	\$ 793.73	\$ 60.96	\$ 23,950.35
Sep. 21	\$ 2,378.32	\$ 656.14	\$ 89.82	\$ 3,124.28
Oct. 21	\$ 2,259.40	\$ 734.40	\$ 68.95	\$ 3,062.75
Nov. 21	\$ 2,386.31	\$ 904.60	\$ 13.62	\$ 3,304.53
Dec. 21	\$ 28,317.17	\$ 704.98	\$ 231.24	\$ 29,253.39
Jan. 22	\$ 24,883.26	\$ 1,113.91	\$ 313.32	\$ 26,310.49
Feb. 22	\$ 8,557.52	\$ 3,062.37	\$ 240.87	\$ 11,860.76
Mar. 22	\$ 12,259.08	\$ 837.42	\$ 359.65	\$ 13,456.15



NORTH GREEN MUD

Accounts receivable for:	Feb 23	2022	to	Mar 22	2022
Beginning	Feb 23	2022			\$ 102,741.70
** Receivables					-\$ 94,483.62 **pg
Penalties					\$ 1,163.41
Balance Forward					\$ 9,421.49
Water					\$ 60,415.08
Sewer					\$ 12,016.22
COH Pumpage Fee					\$ 12,661.44
Disc/Rec fees					
Miscellaneous - Total from below					\$ 1,362.81
Deposits					
Door Tags					
Return checks					\$ 89.77
Overpayments & credits					
Deposits posted to accounts					-\$ 76.10
* Adjustments					\$ 569.93 *
Ending Balance	Mar 22	2022			\$ 96,460.64

Breakdown of Miscellaneous items above:			
Grease Trap	\$	550.00	
Backflow: RPZ / PVB	\$	530.81	
Low Water Inves.	\$	282.00	
Total of miscellaneous items:			\$ 1,362.81

*Adjustments:			
penalty adj.	-\$	2.89	Breakdown of Miscellaneous adjusted items
water adj.			tampering / lock
sewer adj.			doortags
COH PUMPAGE adj.	-\$	2.18	backflow (RPZ)
transfer fee adj.	\$	50.00	
disc/rec adj.	\$	100.00	
deposit adj.	\$	400.00	
door hanger adj.			adjusted final
nsf fee adj.	\$	25.00	Collections Unlimited / write offs
Miscellaneous adj.			Total of miscellaneous adj.: \$ -

North Green MUD

Accounts receivable for: **Feb 23** **to** **Mar 22** **2022**

CASH RECEIVED:

**Penalty	\$	991.42
**Water	\$	56,224.23
**Sewer	\$	12,415.77
**Houston GRP Fee	\$	13,023.90
**Transfer Fee	\$	50.00
**Disc/Rec Fee	\$	100.00
**Deposit	\$	400.00
**NSF fees	\$	50.00
**Overpayments	\$	3,206.08
**Del ltr	\$	10.96
**Backflow / RPZ		
**Grease Trap	\$	444.76
**Meter Remove/Replace		
**ATB-Invoices	\$	7,566.50
**		

NSF Replacement - Hermon

Temporary water deposit

Builder deposit

Taps

Inspection - Sewer

Inspection - Pre/Post

Inspection - CSI

Insurance reimbursement

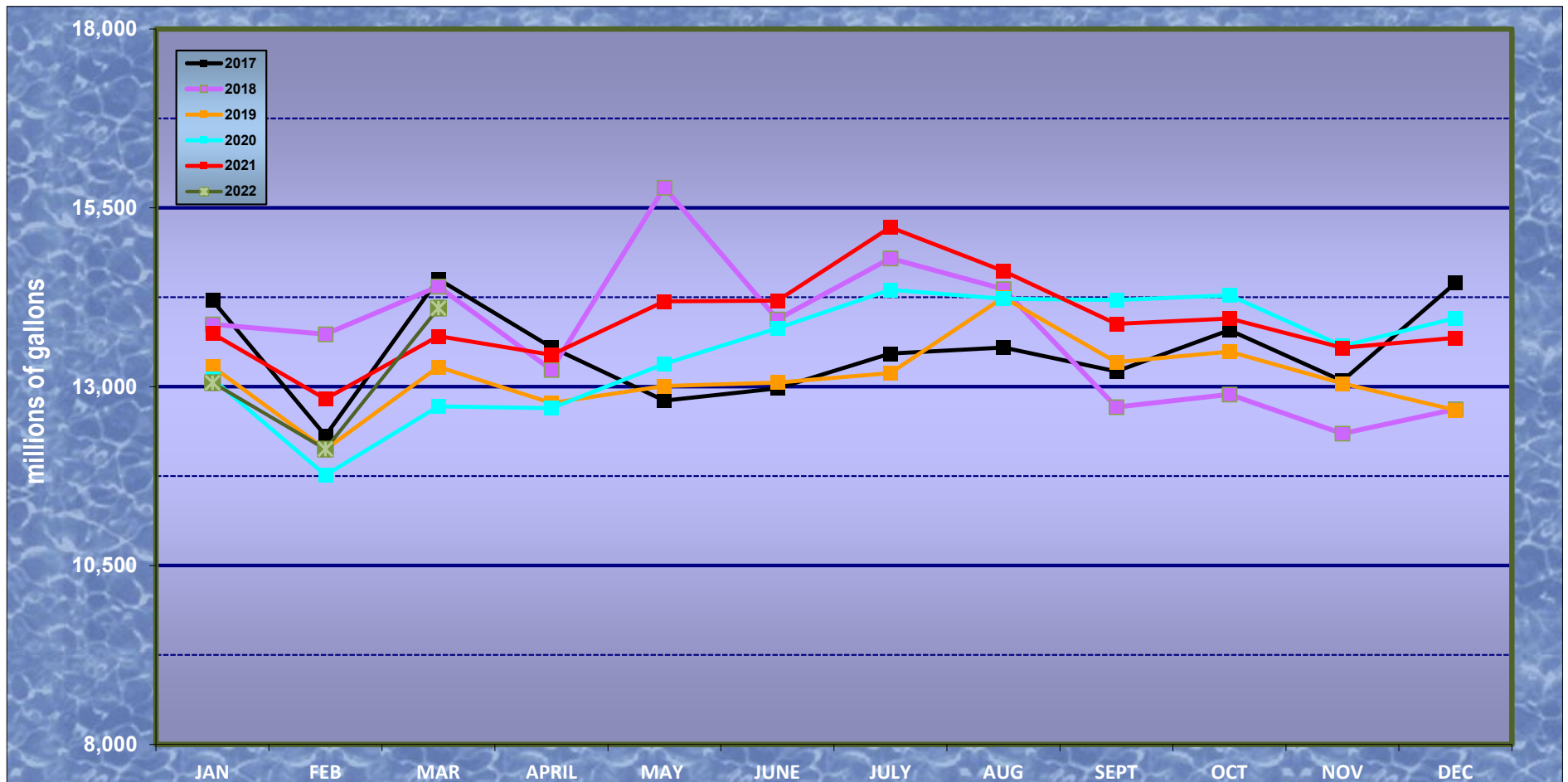
Collections Unlimited

Paid Invoices

Totals Receipts	\$	94,483.62
Actual Number of Connections		375
Customer Deposits	\$	111,231.04

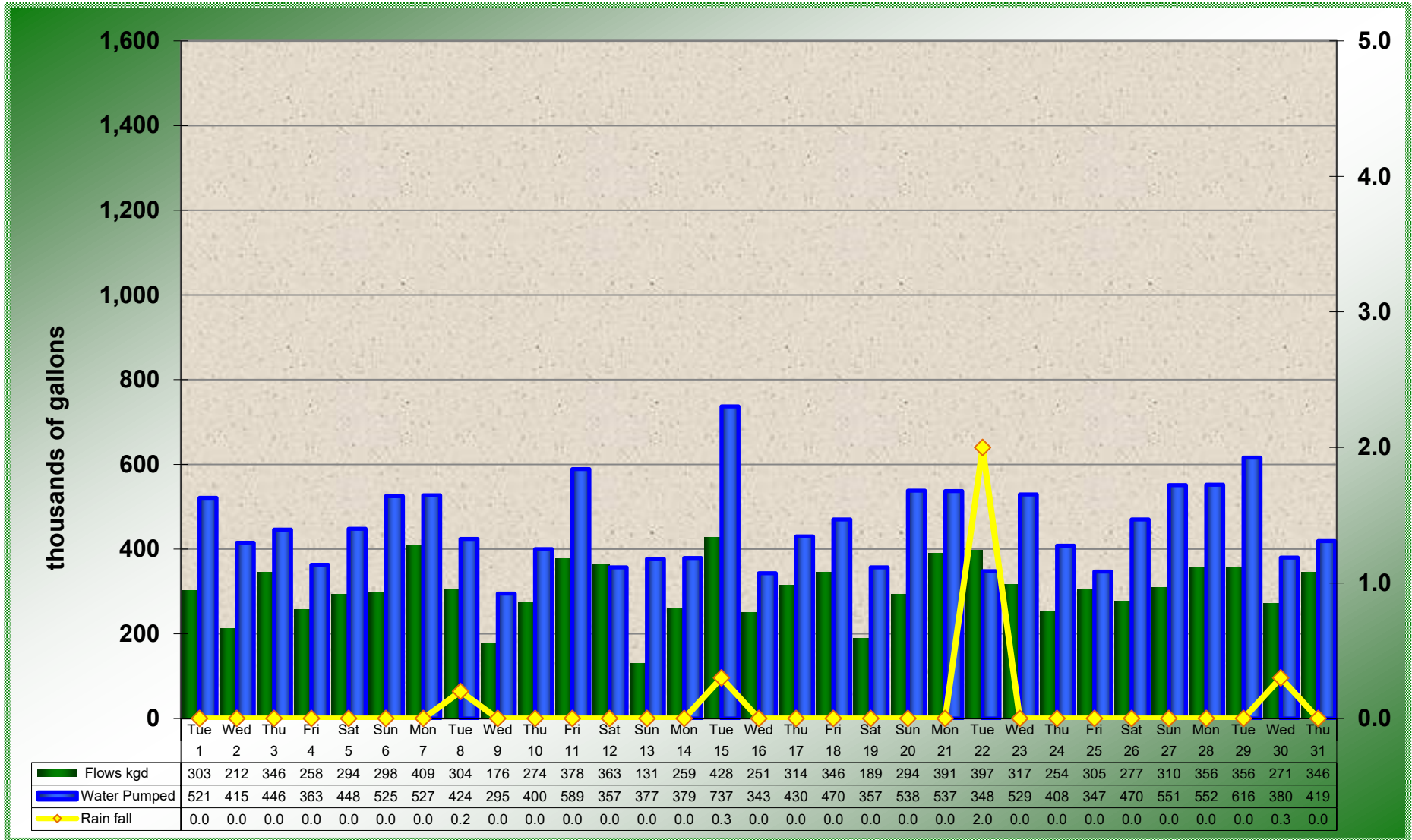
North Green Municipal Utility District's Annual Water Usage By Month

Year	JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL:	Monthly average:	Median	Highest month	Lowest month	Indoor usage	Outdoor usage	% Outdoor usage
2022	13,057	12,127	14,098										39,282	13,094	13,057	14,098	12,127	36,381	2,901	7.4%
2021	13,742	12,829	13,708	13,447	14,193	14,202	15,229	14,617	13,877	13,954	13,544	13,683	167,025	13,919	13,810	15,229	12,829	153,948	13,077	7.8%
2020	13,111	11,764	12,723	12,701	13,320	13,818	14,354	14,230	14,213	14,278	13,569	13,958	162,039	13,503	13,694	14,354	11,764	141,168	20,871	12.9%
2019	13,280	12,123	13,276	12,773	13,010	13,057	13,189	14,248	13,344	13,491	13,047	12,673	157,511	13,126	13,123	14,248	12,123	145,476	12,035	7.6%
2018	13,873	13,735	14,402	13,235	15,784	13,940	14,795	14,364	12,715	12,892	12,345	12,685	164,765	13,730	13,804	15,784	12,345	148,140	16,625	10.1%
2017	14,206	12,315	14,504	13,551	12,806	12,976	13,463	13,548	13,215	13,791	13,081	14,448	161,904	13,492	13,506	14,504	12,315	147,780	14,124	8.7%
average through the years																			9.4%	



NORTH GREEN MUD WWTP FLOW / WATER PUMPED / RAIN HISTORY

March 2022



	<u>Water pumped</u>	<u>WWTP flows -kgd</u>	<u>rain</u>
total:	14,098	9,407	2.8
average:	455	303	0.1
median:	430	304	0.0

	<u>Water pumped</u>	<u>WWTP flows -kgd</u>	<u>rain</u>
maximum:	737	428	2.0
minimum:	295	131	0.0

North Green MUD

Invoices Billed In District's Name

March 2022

Date of Work	Billed to:	Invoice Date	Invoice Number	Amount	1st Request Mailed	2nd Request Mailed	Final Request Mailed	To Collection	Builder Deposit	Amount Paid or deducted	Check Number	Date Paid
					No Activity							
AGE ANALYSIS												
Total				\$ -						\$ -		

North Green MUD
CHARGED OFF ACCOUNTS
March 2022

*****WRITE OFF ACCOUNTS*****

Account Number	Balance Written Off
	No Write Offs	\$0.00

TOTAL: \$0.00

***** ACCOUNTS SENT TO COLLECTIONS UNLIMITED*****

Account Number	Balance of Account
1) 1-64-00160-05		\$466.70

TOTAL: \$466.70