DMR Copy of Record

Permit					
Permit #:	**MD0024333**	**Permittee:**	MARYLAND MOBILE ESTATES, LLC	**Facility:**	MARYLAND MANOR WWTP
Major:	No	**Permittee Address:**	4922 FAIRMONT AVENUE, SUITE 280 BETHESDA (0811–AA), MD 20814	**Facility Location:**	4600 SANDS ROAD HARWOOD, MD 20776
Permitted Feature:	001 External Outfall	**Discharge:**	**001-A** 12-DP-0811		
Report Dates & Status					
Monitoring Period:	**From 01/01/20 to 01/31/20**	**DMR Due Date:**	**02/28/20**	**Status:**	**NetDMR Validated**
Considerations for Form Completion					
DISCHARGE SHALL BE LIMITED AT ALL TIMES. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM OTHER THAN TRACE AMOUNT. FLOW USED IN WASTE ALLOCATION CALCULATIONS, NOT TO BE CONSIDERED A LIMITATION.					
Principal Executive Officer					
First Name:	Jack	**Title:**	Vice President, Operations	**Telephone:**	443-903-4758
Last Name:	Bradshaw				
No Data Indicator (NODI)					
Form NODI:	--				

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample						=	6.5	=	7.72			19 - mg/L		01/01 - Daily	GR - GRAB
					Permit Req.						>=	5.0 INST MIN	>=	5.5 MO AV MN			19 - mg/L		01/01 - Daily	GR - GRAB
					Value NODI															
00310	BOD, 5-day, 20 deg. C	1 - Effluent Gross	0	--	Sample	=	1.99	=	2.92	26 - lb/d			=	3.84	=	5.63	19 - mg/L		01/07 - Weekly	08 - COMP-8
					Permit Req.	<=	23.0 MX MO AV	<=	34.0 MX WK AV	26 - lb/d			<=	30.0 MX MO AV	<=	45.0 MX WK AV	19 - mg/L		01/07 - Weekly	08 - COMP-8
					Value NODI															
00400	pH	1 - Effluent Gross	0	--	Sample						=	6.6			=	7.5	12 - SU		01/01 - Daily	GR - GRAB
					Permit Req.						>=	6.5 MINIMUM			<=	8.5 MAXIMUM	12 - SU		01/01 - Daily	GR - GRAB
					Value NODI															
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	11.42	=	16.1	26 - lb/d			=	22.0	=	31.0	19 - mg/L		01/07 - Weekly	08 - COMP-8
					Permit Req.	<=	23.0 MX MO AV	<=	34.0 MX WK AV	26 - lb/d			<=	30.0 MX MO AV	<=	45.0 MX WK AV	19 - mg/L		01/07 - Weekly	08 - COMP-8
					Value NODI															
00600	Nitrogen, total [as N]	1 - Effluent Gross	0	--	Sample								=	18.39			19 - mg/L		01/30 - Monthly	08 - COMP-8
					Permit Req.									Req Mon MO AVG			19 - mg/L		01/30 - Monthly	08 - COMP-8
					Value NODI															
00600	Nitrogen, total [as N]	1 - Effluent Gross	1	--	Sample			=	295.99	76 - lb/mo									01/30 - Monthly	CA - CALCTD
					Permit Req.				Req Mon MO TOTAL	76 - lb/mo									01/30 - Monthly	CA - CALCTD
					Value NODI															
00600	Nitrogen, total [as N]	1 - Effluent Gross	2	--	Sample			=	295.99	50 - lb/yr									01/30 - Monthly	CA - CALCTD
					Permit Req.				Req Mon CUM TOTL	50 - lb/yr									01/30 - Monthly	CA - CALCTD
					Value NODI															
00605	Nitrogen, organic total [as N]	1 - Effluent Gross	0	--	Sample								=	0.23			19 - mg/L		01/30 - Monthly	08 - COMP-8
					Permit Req.									Req Mon MO AVG			19 - mg/L		01/30 - Monthly	08 - COMP-8
					Value NODI															
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	0	--	Sample								=	0.27			19 - mg/L		01/30 - Monthly	08 - COMP-8
					Permit Req.									Req Mon MO AVG			19 - mg/L		01/30 - Monthly	08 - COMP-8
					Value NODI															
00630	Nitrite + Nitrate total [as N]	1 - Effluent Gross	0	--	Sample								=	17.89			19 - mg/L		01/30 - Monthly	08 - COMP-8
					Permit Req.									Req Mon MO AVG			19 - mg/L		01/30 - Monthly	08 - COMP-8
					Value NODI															
00665	Phosphorus, total [as P]	1 - Effluent Gross	0	--	Sample								=	2.23			19 - mg/L		01/30 - Monthly	08 - COMP-8
					Permit Req.									Req Mon MO AVG			19 - mg/L		01/30 - Monthly	08 - COMP-8
					Value NODI															
00665	Phosphorus, total [as P]	1 - Effluent Gross	1	--	Sample			=	35.89	76 - lb/mo									01/30 - Monthly	CA - CALCTD
					Permit Req.				Req Mon MO TOTAL	76 - lb/mo									01/30 - Monthly	CA - CALCTD
					Value NODI															
00665	Phosphorus, total [as P]	1 - Effluent Gross	2	--	Sample			=	35.89	50 - lb/yr									01/30 - Monthly	CA - CALCTD
					Permit Req.				Req Mon CUM TOTL	50 - lb/yr									01/30 - Monthly	CA - CALCTD
					Value NODI															
04175	Phosphate, ortho [as P]	1 - Effluent Gross	0	--	Sample								=	1.58			19 - mg/L		01/30 - Monthly	08 - COMP-8
					Permit Req.									Req Mon MO AVG			19 - mg/L		01/30 - Monthly	08 - COMP-8
					Value NODI															
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	0.062	=	0.137	03 - MGD									99/99 - Continuous	RC - Recorder (auto)
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD									99/99 - Continuous	RC - Recorder (auto)
					Value NODI															
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample										=	0.0	19 - mg/L		01/01 - Daily	GR - GRAB
					Permit Req.										<=	0.1 DAILY MX	19 - mg/L		01/01 - Daily	GR - GRAB
					Value NODI															

51040	E. coli	1 - Effluent Gross	0	--	Sample										=	14.43	30 - MPN/100mL		01/07 - Weekly	GR - GRAB
					Permit Req.										<=	126.0 MX MO GMN	30 - MPN/100mL		01/07 - Weekly	GR - GRAB
					Value NODI															
82220	Flow, total	1 - Effluent Gross	0	--	Sample			=	1.93	80 - Mgal/mo									01/30 - Monthly	CA - CALCTD
					Permit Req.				Req Mon TOTAL	80 - Mgal/mo									01/30 - Monthly	CA - CALCTD
					Value NODI															

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

No Violations

Attachments

Name	Type	Size
MDM-MOR-DMR-JANUARY-2020.xlsx	xlsx	153252.0
1-16-20.pdf	pdf	607407.0
1-7-20.pdf	pdf	934198.0
1-28-20.pdf	pdf	895974.0
1-21-20.pdf	pdf	992479.0

Report Last Saved By

MARYLAND MOBILE ESTATES, LLC

User: [redacted] (b) (6)

Name: jack bradshaw

E-Mail: [redacted] (b) (6)

Date/Time: 2020-02-28 13:33 (Time Zone: -05:00)

Report Last Signed By

User: [redacted] (b) (6)

Name: jack bradshaw

E-Mail: [redacted] (b) (6)

Date/Time: 2020-02-28 13:33 (Time Zone: -05:00)

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Fax 410-643-0801
St. #181

WASTE WATER ANALYSIS REPORT

CASE #: 121445
REQUESTED BY: Horizon Land Co. LLC
1091 Mt. Zion – Marlboro Rd
Lothian, Md 20711

SAMPLE SITE: Maryland Manor WWTP

MATRIX: Waste Water
SOURCE: Final Effluent / Grab / Aeration Reactor
DATE/TIME COLLECTED: 01-07-2020 / 10:00am
COLLECTED BY: (b) (4)
DATE RECEIVED BY LAB: 01-07-2020
REPORT DATE: 01-15-2020

Parameter	Results	Units	Detection Limit	Date/Time Analyzed	Method	Analyst
Ammonia	0.331	mg/L	0.1	01-10-2020 / 8:30am	SM4500NH3-D	CD
BOD	5.63	mg/L	1.0	01-08-2020 / 8:30am	SM5210B	CD
Escherichia Coli	15.0	MPN	1.0	01-07-2020 / 3:46pm	SM 9223B	DD
TSS	25.0	mg/L	0.5	01-08-2020 / 10:20am	SM2540D	CD
MLSS	6,190	mg/L	0.5	01-08-2020 / 2:15pm	SM2540D	CD

Comments:

- SM - Standard Methods 22nd ed.
- This report relates only to the samples as received by the laboratory and may only be reproduced in full.

Dominic DiGiovine

Dominic DiGiovine
Laboratory Director

Weekly

121445

CHAIN OF CUSTODY RECORD

PROJECT NAME Maryland Manor
COMPANY ProStart/Horizon Properties
ADDRESS 1091 Mt. Zion Marlboro Rd Lothian Md
PHONE ( )

[redacted]

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info@celinc.net
www.ChesapeakeEnvironmentalLab.com

SAMPLE NO.	DATE	TIME	SAMPLE LOCATION	CONTAINER SIZE	CONTAINER G/P	NO. OF CONTAINERS	SAMPLE MATRIX	PRESERVATIVE	BOD-TSS	E-Coli	NH_3	MLSS	COMMENTS
1	1-7-2020	10:00am	Final Eff	1L	P	1	WW	None	1				~~Composite~~ GRAB
2			Final Eff	100ml	P	1	WW	None		1			Grab
3			Final Eff	250ml	P	1	WW	H_2SO_4			1		~~Composite~~ GRAB
4			Aeration Reactor	250ml	P	1	WW	None				1	~~Composite~~ GRAB

[redacted]

Date / Time	Received by:	Relinquished by:	Date / Time
1-7-20	Boones Refrig		
1-7-2020			

[redacted] 1-7-2020 1245p

[redacted] 3:07p 1-7-20

Method of Shipment: CEL TECH

Remarks:

	YES	NO
Samples Iced	✓	
Samples Preserved		

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St. #181

WASTE WATER ANALYSIS REPORT

CASE #: 121656
REQUESTED BY: Horizon Land Co. LLC
1091 Mt. Zion – Marlboro Rd
Lothian, Md 20711

SAMPLE SITE: Maryland Manor WWTP

MATRIX: Waste Water
SOURCE: Final Eff / Grab / Aeration Reactor
DATE/TIME COLLECTED: 01-16-2020 / 8:50am
COLLECTED BY: (b) (4)
DATE RECEIVED BY LAB: 01-16-2020
REPORT DATE: 01-31-2020

Parameter	Results	Units	Detection Limit	Date/Time Analyzed	Method	Analyst
Ammonia	0.308	mg/L	0.1	01-21-2020 / 9:30am	SM4500NH3-D	CD
BOD	3.44	mg/L	1.0	01-17-2020 / 1:20pm	SM5210B	CD
Escherichia Coli	1.0	MPN	1.0	01-16-2020 / 2:01pm	SM 9223B	MW
TSS	10.0	mg/L	0.5	01-17-2020 / 10:30am	SM2540D	CD
MLSS	6,355	mg/L	0.5	01-17-2020 / 10:30am	SM2540D	CD

Comments:

- SM - Standard Methods 22nd ed.
- This report relates only to the samples as received by the laboratory and may only be reproduced in full.

Dominic DiGiovine

Dominic DiGiovine
Laboratory Director

Weekly

3

CHAIN OF CUSTODY RECORD

PROJECT NAME Maryland Manor
COMPANY ProStart / Horizon Properties
ADDRESS 1091 Mt. Zion Marlboro Rd Lothian Md
(b) (4)
PRINT NAME

121656

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SAMPLE NO.	DATE	TIME	SAMPLE LOCATION	CONTAINER SIZE	CONTAINER G/P	NO. OF CONTAINERS	SAMPLE MATRIX	PRESERVATIVE	BOD-TSS	E-Coli	NH3	MLSS	COMMENTS
1	1-16-2020	8:50am	Final Eff	1L	P	1	WW	None	1				~~Composite~~
2	↓	↓	Final Eff	100ml	P	1	WW	None		1			Grab GRAB
3			Final Eff	250ml	P	1	WW	H_2SO_4			1		~~Composite~~ GRAB
4			Aeration Reactor	250ml	P	1	WW	None				1	~~Composite~~ GRAB

(b) (4)

Date / Time	Received by:	Relinquished by:	Date / Time	Received by:
1-16-2020 10:00AM	BOODES			(b) (4) 1-16-2020 / 1045a
1-16-2020 1140A				(b) (4)

Method of Shipment: CEL TECH

Remarks:

	YES	NO
Samples Iced	✓	
Samples Preserved		

Chesapeake Environmental Lab, Inc.

P. O. Box 946
Stevensville, MD 21666

Chesapeake Environmental Lab Inc.
Water Analysis • Well & Septic Inspections

Bill To

Horizon Land Company
2138 Espey Court
Crofton, MD 21114

Invoice

Invoice Date	Invoice #	P.O. No.	Vender ID #:	Project
2/4/2020	121710			Maryland Manor WWTP

Quantity	Date	Description	Rate	Amount
1	01-21-2020	Ammonia Analysis BOD Analysis Bacteria - Ecoli Analysis Nitrate/Nitrite Analysis Ortho Phosphorus Analysis Total Phosphorus Analysis TKN Analysis Total Suspended Solids Analysis MLSS Water Analysis	(b) (4) [redacted]	(b) (4) [redacted]

Total	(b) (4) [redacted]
Payments/Credits	[redacted]
Balance Due	[redacted]

Any account having an outstanding balance for more than 30 days will be charged a rebilling fee on that outstanding balance of $5.00 per month.

Terms - On Receipt

Phone: 410-643-0800 Fax: 410-643-0801 info@celinc.net www.chesapeakeenvironmentallab.net

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Fax 410-643-0801
St. #181

WASTE WATER ANALYSIS REPORT

CASE #: 121710
REQUESTED BY: Horizon Land Co. LLC
1091 Mt. Zion – Marlboro Rd
Lothian, Md 20711

SAMPLE SITE: Maryland Manor WWTP

MATRIX: Waste Water
SOURCE: Final Eff / Grab / Aeration Reactor
DATE/TIME COLLECTED: 01-21-2020 / 10:25am
COLLECTED BY: (b) (4)
DATE RECEIVED BY LAB: 01-21-2020
REPORT DATE: 02-04-2020

Parameter	Results	Units	Detection Limit	Date/Time Analyzed	Method	Analyst
Ammonia	0.248	mg/L	0.1	01-28-2020 / 8:15am	SM4500NH3-D	CD
BOD	2.45	mg/L	1.0	01-22-2020 / 8:45am	SM5210B	CD
Escherichia Coli	>200.5	MPN	1.0	01-21-2020 / 2:49pm	SM 9223B	TD
Nitrate/Nitrite	17.89	mg/L	0.09204	01-28-2020 / 1:47am	EPA300.0	BDW*
Ortho Phosphorous	1.58	mg/L	0.1	01-21-2020 / 5:10pm	SM4500-P-E	CD
Total Phosphorous	2.23	mg/L	0.1	01-27-2020 / 8:50am	SM4500-P B+E	CD
TKN	<0.5	mg/L	0.5	01-30-2020 / 9:31am	SM4500NorgC	PRA*
TSS	31.0	mg/L	0.5	01-22-2020 / 10:30am	SM2540D	CD
MLSS	5,950	mg/L	0.5	01-22-2020 / 12:00pm	SM2540D	CD

Comments:

- SM - Standard Methods 22nd ed.
- This report relates only to the samples as received by the laboratory and may only be reproduced in full.
- *MD 275

Dominic DiGiovine

Dominic DiGiovine
Laboratory Director

Monthly

Monthly

CHAIN OF CUSTODY RECORD

PROJECT NAME Maryland Manor
COMPANY Prostart / Horizon Properties
ADDRESS 1091 Mt Zion Marlboro Rd Lothian Md

(b) (4)

121710

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PRINT NAME

SAMPLE NO.	DATE	TIME	SAMPLE LOCATION	CONTAINER SIZE	CONTAINER G/P	NO. OF CONTAINERS	SAMPLE MATRIX	PRESERVATIVE	BOD-TSS	E-Coli	MLSS	NH3-N	TKN	Nitro.	P	COMMENTS
1	121-26	10:25	Final Eff	1L	P	1	WW	None	1							Composite GRAB
X2	8	9	Final Eff	100mL	P	1	WW	None		1						Grab
X3		9	Aeration Reactor	250mL	P	1	WW	None			1					Grab
X4			Final Eff	250	P	1	WW	H_2SO_4				1				Composite GRAB
X5			Final Eff	250	P	1	WW	None					1			Composite GRAB

(b) (4)

Date / Time	Received by:	Relinquished by:	Date / Time	Received by:
1-21-20 11:50	REFRIDGE BOXES			1-21-2020 12:55
Date / Time	Received by:	Relinquished by:	Date / Time	
1-21-2020 2P				

(b) (4)

(b) (4)

1/21/2020 2:40P

Method of Shipment: CELTech

Remarks:

	YES	NO
Samples Iced	✓	
Samples Preserved		

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St. #181

WASTE WATER ANALYSIS REPORT

CASE #: 121949
REQUESTED BY: Horizon Land Co. LLC
1091 Mt. Zion – Marlboro Rd
Lothian, Md 20711

SAMPLE SITE: Maryland Manor WWTP

MATRIX: Waste Water
SOURCE: Maryland Manor Final Effluent / Grab
DATE/TIME COLLECTED: 01-28-2020 / 10:40am
COLLECTED BY: [redacted] (b) (4)
DATE RECEIVED BY LAB: 02-04-2020
REPORT DATE: 02-11-2020

Parameter	Results	Units	Detection Limit	Date/Time Analyzed	Method	Analyst
Ammonia	0.202	mg/L	0.1	02-10-2020 / 1:30pm	SM4500NH3-D	CD

Comments:

- SM - Standard Methods 22nd ed.
- This report relates only to the samples as received by the laboratory and may only be reproduced in full.
- *MD 275

Dominic DiGiovine

Dominic DiGiovine
Laboratory Director

Weekly

121949

CHAIN OF CUSTODY RECORD

PROJECT NAME Maryland Manor
COMPANY ProStart / Horizon Properties
ADDRESS 1091 Mt. Zion Marlboro Rd Lothian Md
PHONE ( )

(b) (4)

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SAMPLE NO.	DATE	TIME	SAMPLE LOCATION	CONTAINER SIZE	CONTAINER G/P	NO. OF CONTAINERS	SAMPLE MATRIX	PRESERVATIVE	BOD-TSS	E-Coli	NH3	MLSS	COMMENTS
1	1/28/20	1040	Final Eff	1L	P	1	WW	None	1				~~Composite~~ GRAB
2	1/28/20	1040	Final Eff	100ml	P	1	WW	None		1			Grab
3	1/28/20	1040	Final Eff	250ml	P	1	WW	H_2SO_4			1		~~Composite~~ GRAB
4	1/28/20	1040	Aeration Reactor	250ml	P	1	WW	None				1	~~Composite~~ GRAB

(b) (4)

Relinquished by:	Date / Time	Received by:	Relinquished by:	Date / Time	Laboratory by:
	1-28-20 11:20	Boones Fridge			(b) (4) 2-4-2020 1:30A
(b) (4) 2-4-2020	2-4-2020 1307			2/4/2020 2pm	(b) (4)

Shipment: CEL TECH

Remarks: *2-4-2020 Spoke to Bernie told to run NH3

	YES	NO
Samples Iced	✓	
Samples Preserved		

PERMITTEE NAME/ADDRESS(*Include Facility Name & Location if Different*)

NAME Maryland Estates MHC, LLC

ADDRESS 2138 Espey Court Suite 1
Crofton, Maryland (AA Co.) 21114

FACILITY Maryland Manor MHC-WWTP

LOCATION Sands Road
Harwood, Maryland (AA Co.) 20776

ATTN. KATE COSTELLO

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (*NPDES*)

DISCHARGE MONITORING REPORT (*DMR*)

12-DP-0811	MD0024333	Outfall 001
DISCHARGE NUMBER	DISCHARGE NUMBER	

Form Approved
OMB No. 2040-0004

3/1/2014 to 2/28/2019

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2020	1	1	TO	2020	1	31

NOTE: Read Instructions before completing this form.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	Freq. Of Analysis	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW, in conduit or thru treatment plant	SAMPLE MEASUREMENT	0.062	0.137	MGD	******	******	******		0	CONT.	REC.
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	REPORT MONTHLY AVG.	DAILY MAX		******	******	******			CONT.	REC.
BOD, 5 day 20 deg. C	SAMPLE MEASUREMENT	1.99	2.92	Lbs./day	******	3.84	5.63	MG/L	0	3/31	24HR.C
00310 1 0 Effluent Gross	PERMIT REQUIREMENT	23.0 MAX MO AVG.	34.0 MAX WKLY AVG.		******	30 MO AVG.	45 MAX WKLY AVG			ONCE per week	24 HR. COMP.
pH	SAMPLE MEASUREMENT	******	******	****	6.6	******	7.5	SU	0	31/31	GRAB
00400 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******		6.5 MINIMUM	******	8.5 MAXIMUM			DAILY	GRAB
Oxygen, dissolved	SAMPLE MEASUREMENT	******	******	****	6.5	7.72	******	MG/L	0	31/31	GRAB
00300 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******		5.0 INST. MIN.	5.5 MO AVG.	NA 2/1-5/31: Minimum			DAILY	GRAB
Solids, total suspended	SAMPLE MEASUREMENT	11.42	16.10		******	22.00	31.0	MG/L	0	3/31	24HR.C
00530 1 0 Effluent Gross	PERMIT REQUIREMENT	23.0 MAX MO AVG.	34.0 MAX WKLY AVG.	Lbs./day	******	30 MO AVG.	45 MAX WKLY AVG			ONCE per week	24 HR. COMP.
E-Coli	SAMPLE MEASUREMENT	******	******	****	******	******	14.43	MPN/ 100ML	0	3/31	GRAB
51040 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******		******	******	126 GEO MEAN			ONCE per week	GRAB
Chlorine, total residual	SAMPLE MEASUREMENT	******	******	****	******	******	0.00	NA	0	NA	UV
50060 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******		******	******	0.10 DAILY MAX			DAILY	GRAB
Total Nitrogen (as N)	SAMPLE MEASUREMENT	******	9.55	Lbs./day	******	18.39	******	NA	0	Calc.	******
00600 1 0 Daily/Monthly Total Lbs.	PERMIT REQUIREMENT	295.99	******	Lbs./Month	******	MO AVG.				ONCE per month	Calculated

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Jack E Bradshaw Jr. Prostart: VP Operations	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	443	903-4758	2020	2	28
TYPED OR PRINTED			CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (*Reference all attachments here*)
Ortho-phosphate exceeedance due to no sample taken: Operations oversight:

	e-coli MPN/100ml	e-coli logarithm of
week 1	15.0	1.18
week 2	1	0.00
week 3	200.5	2.30
week 4		0.00
total		3.478206
count	4	4
avg	14.4345	0.869551

PERMITTEE NAME/ADDRESS(*Include Facility Name & Location if Different*)

NAME Maryland Estates MHC, LLC

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (*NPDES*)

DISCHARGE MONITORING REPORT (*DMR*)

Form Approved
OMB No. 2040-0004

ADDRESS 2138 Espey Court Suite 1
Crofton, Maryland (AA Co.) 21114

12-DP-0811	MD0024333	Outfall 001
DISCHARGE NUMBER	DISCHARGE NUMBER	

3/1/2014 to 2/28/2019

FACILITY Maryland Manor MHC-WWTP
LOCATION Sands Road
Harwood, Maryland (AA Co.) 20776
ATTN. KATE COSTELLO

MONITORING PERIOD	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2019	12	1	TO	2019	12	31

NOTE: Read Instructions before completing this form.

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUALITY OR CONCENTRATION MINIMUM	QUALITY OR CONCENTRATION AVERAGE	QUALITY OR CONCENTRATION MAXIMUM	QUALITY OR CONCENTRATION UNITS	NO. EX	Freq. Of Analysis	SAMPLE TYPE
Nitrogen, Total (as N) Total Lbs./Year	SAMPLE MEASUREMENT	******	295.99		******	******	******		0	Calc.	******
00600 1 2 Cumulative/Year January to December	PERMIT REQUIREMENT	******		LBS/YEAR	******	MAX MO AVG.	******	MG/L		ONCE per month	Calculated
Organic Nitrogen	SAMPLE MEASUREMENT	0.12	******		******	0.23	******		0	1/31	24HR.C
00605 1 0 Effluent Gross	PERMIT REQUIREMENT	******		Lbs./day	******	REG MO AVG.	******	MG/L		Yearly	Cumulative
Nitrate-Nitrite Nitrogen Total (as N)	SAMPLE MEASUREMENT	******	******		******	17.89	******		0	1/31	24HR.C
00630 1 0 Effluent Gross	PERMIT REQUIREMENT	******	******	Lbs./day	******	REG MO AVG.	******	MG/L		ONCE per week	24 HR. COMP.
Ammonia Nitrogen Total (as N)	SAMPLE MEASUREMENT	0.141	0.172		******	0.27	0.33		0	1/31	24HR.C
00610 1 0 Total (as N)	PERMIT REQUIREMENT	1.9 MAX MO AVG.	10 MAX WKLY AVG.	Lbs./day	******	2.9 MAX MO AVG.	15 MAX DAILY AVG.	NA		ONCE per week	24 HR. COMP.
Phosphorous, Total (as P)	SAMPLE MEASUREMENT	******	1.16	Lbs./day	******	2.23	******		0	1/31	24HR.C
00665 1 0 0 Effluent Gross Value	PERMIT REQUIREMENT	35.89	******	Lbs./Month	******	MONTHLY AVG.	******	MG/L		ONCE per week	24 HR. COMP.
Phosphorous, Total (as P) Total Lbs./Year	SAMPLE MEASUREMENT	******	35.89		******	******	******		0	Calc.	24HR.C
00665 1 2 Cumulative/Year January to December	PERMIT REQUIREMENT	******		Lbs./Year	******	******	******	NA		Yearly	Cumulative
FLOW, in conduit or thru treatment plant:Total/Month	SAMPLE MEASUREMENT	******	1.930	Monthly (MG)	******	******	******			ONCE per month	Calculated
50050 1 0 Cumulative/Year January to December	PERMIT REQUIREMENT	******		Yearly (MG)	******	******	******	NA		Yearly	Cumulative

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Jack E Bradshaw Jr. Prostart: VP Operations	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	443	903-4758	2020	2	28
TYPED OR PRINTED			CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

PERMITTEE NAME/ADDRESS*(Include Facility Name & Location if Different)*
NAME Maryland Estates MHC, LLC
ADDRESS 2138 Espey Court Suite 1
Crofton, Maryland (AA Co.) 21114

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*

12-DP-0811	MD0024333	Outfall 001
DISCHARGE NUMBER	DISCHARGE NUMBER	

Form Approved
OMB No. 2040-0004

3/1/2014 to 2/28/2019

FACILITY Maryland Manor MHC-WWTP
LOCATION Sands Road
Harwood, Maryland (AA Co.) 20776
ATTN. KATE COSTELLO

	MONITORING PERIOD						
	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2020	1	1	TO	2020	1	31

NOTE: Read Instructions before completing this form.

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO.	Freq. Of	SAMPLE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX	Analysis	TYPE
Ortho-Phosphorous, Total (as P)	SAMPLE MEASUREMENT	******	******	****	******	1.58	******	MG/L	0	1/31	24HR.C
04175 1 0 0 Effluent Gross Value	PERMIT REQUIREMENT	******	******		******	MONTHLY AVG.	******			ONCE per week	24 HR. COMP.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Jack E Bradshaw Jr.	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on						
Prostart: VP Operations		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	443	903-4758	2020	2	28
TYPED OR PRINTED			CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

Maryland Manors Package Plant
1500 Berkley Ct Harwood
Daily operational log sheet

Month: **Janurary** **Date:** **1/1-31/2020** Submitted by (b) (4) Operator # _____

operator	Date	day of week	Time	Weather	Temp Deg F	Rain inches	odor	raw pH	BOD	Color	MLSS	30 min set	SVI	reactor temp	DO mg/l	blanket feet	NH4 mg/l	ALK mg/l	NOx mg/l	waste	Final temp C	pH	D O mg/l	UVI
TH/DB	1	W	1200	CLR	46	0	NO	7.1		BRN	6190	600	97	14.2	3.4	10				0	13.6	7	7.3	0.1
TH/DB	2	T	1130	CLR	36	0	NO	7.3		BRN	6190	560	90	13.6	6.5	6	0.25	6	100	0	14	6.9	7.1	0
TH/DB	3	F	1130	CLR	51	0	NO	7.3		BRN	6190	620	100	14.4	5.7	10				0	14.4	7	6.9	0.2
TH/DB	4	S	1030	CLR	42	0	NO	7.4		BRN	6190	550	89	14.8	4.3	10.5				30	14.8	6.8	7.3	0.1
TH/DB	5	S	**1130**	CLR	41	0	NO	7.3		BRN	6190	540	87	13.6	5.5	10				30	13.4	7.1	7.4	0.1
JB/CH	6	**M**	1535	CLR	53	0	NO	6.9		BRN	6190	650	105	14.4	5.2	10				0	13.8	6.9	7.6	0
JB/CH	7	T	1505	RAIN	39	0.1	NO	6.8		BRN	6190	580	94	14.2	5.2	9.5	0.5	6	50	30	12.9	6.7	7.9	0.1
JB/CH	8	W	1510	CLR	36	0	NO	6.8		BRN	6355	650	102	13.2	5.1	10				0	13.1	6.9	7.9	0
DB	9	T	1300	CLR	34	0	NO	7		BRN	6355	550	87	13.4	4.8	8	0.25	6	50	0	12.5	6.7	8.3	0.1
DB	10	F	1030	CLR	41	0	NO	6.9		BRN	6355	560	88	13.2	6.9	8				0	12.7	6.9	8	0.2
DB	11	S	1230	CLR	65	0	NO	7.2		BRN	6355	550	87	15.2	6.9	8				30	14.8	6.9	7.4	0
JB/CH	12	S	**900**	CLR	66	0	NO	6.8		BRN	6355	580	91	15.1	5.1	9				0	15.1	6.7	6.6	0
JB/CH	13	**M**	1500	CLR	51	0	NO	6.6		BRN	6355	650	102	14.9	5	9.5				0	13.2	6.8	6.9	0
JB/CH	14	T	1500	RAIN	46	0.5	NO	6.6		BRN	6355	650	102	14.3	5.2	10	0.5	3	100	60	11.8	6.6	7.1	0
TH/DB	15	W	1200	CLR	50	0	NO	6.9		BRN	6355	500	79	14.7	6.2	7				0	14.7	6.9	7.7	0
TH/DB	16	T	1330	CLR	53	0	NO	7		BRN	6355	620	98	14.4	6.5	5	0.25	3	100	0	14	7.2	6.5	0
TH/DB	17	F	1030	CLR	34	0	NO	6.8		BRN	5950	520	87	12.9	6.9	8				30	12.8	7.1	8	0
JB/CH	18	S	815	CLR	25	0	NO	6.7		BRN	5950	550	92	12.5	5.1	8				30	12.5	6.7	7.9	0
JB/CH	19	S	**715**	mist	41	0.01	NO	6.9		BRN	5950	700	118	13	5	8				0	11	6.9	8.2	0
JB/CH	20	**M**	1130	CLR	30	0	NO	6.8		BRN	5950	680	114	12.7	5.2	10				0	11.3	6.8	8.3	0
TH/DB	21	T	1230	CLR	31	0	NO	6.9		BRN	5950	680	114	12.5	8.3	10	0.25	6	50	0	11.7	7	7.7	0
TH/DB	22	W	1000	CLR	27	0	NO	7.1		BRN	5950	660	111	12.1	6.1	10				0	12	7.1	8	0
TH/DB	23	T	1230	CLR	38	0	NO	7.1		BRN	5950	660	111	12.5	8	10	0.25	6	100	0	13	7.2	8.4	0
DB	24	F	1145	CLR	40	0	NO	7.1		BRN	5950	540	91	12.8	6.3	10				0	12.6	7.2	8.4	0
JB/CH	25	S	930	CLDY	46	0.1	NO	6.9		BRN	5950	600	101	12.4	6.5	10				30	12.8	6.9	8.6	0
JB/CH	26	S	**1045**	CLR	45	0	NO	7		BRN	5950	600	101	12.3	5.1	10				30	12	6.9	9.7	0
JB/CH	27	**M**	1500	CLR	47	0	NO	7.1		BRN	5950	600	101	14.1	5	10				0	13.5	7.5	8.3	0
JB/CH	28	T	1530	CLR	43	0	NO	6.8		BRN	5950	650	109	12.9	2.9	9	0.5	6	100	0	10.2	6.8	7.3	0
TH/DB	29	W	1030	CLR	38	0	NO	7		BRN	5950	680	114	12.8	5.7	9				0	13.6	7.1	6.8	0
TH/DB	30	**T**	1200	CLR	39	0	NO	7.1		BRN	5950	680	114	12.5	6.2	9	0.25	6	100	0	12.8	7.2	7.9	0
TH/DB	31	**F**	1030	CLR	39	0	NO	7.1		BRN	5950	670	113	12.6	5.9	10				30	12.5	7.3	7.4	0

MDM Totalizer Readings

Month: January

	Totalizer
12/31/2019	44084819

Date	Final Flow	GPD	MGD	Pump 1	Total	Pump 2	Total	UV	Total	Remarks
01/01/2020	44130682	43149	0.0431		0	52696.6	2.6	2037	24	Plant is only on one pump,
01/02/2020	44173831	43693	0.0437		0	52699.2	2.8	2061	24	little storage capacity for sludge,
01/03/2020	44217524	44753	0.0448		0	52702	2.6	2085	23	UV intensity sensors need to be
01/04/2020	44262277	67734	0.0677		0	52704.6	3.0	2108	25	worked on.
01/05/2020	44330011	59980	0.0600		0	52707.6	3.1	2133	28	
01/06/2020	44389991	57169	0.0572		0	52710.7	2.3	2161	24	On the 21st E-Coli exceeded the
01/07/2020	44447160	54489	0.0545		0	52713	2.3	2185	24	monthly limit.
01/08/2020	44501649	49043	0.0490		0	52715.3	2.1	2209	22	
01/09/2020	44550692	59180	0.0592		0	52717.4	2.0	2231	22	
01/10/2020	44609872	48354	0.0484		0	52719.4	2.4	2253	26	
01/11/2020	44658226	42061	0.0421		0	52721.8	2.1	2279	20	
01/12/2020	44700287	**80819**	0.0808		0	52723.9	4.2	2299	30	
01/13/2020	44781106	61105	0.0611		0	52728.1	3.1	2329	24	
01/14/2020	44842211	38479	0.0385		0	52731.2	2.5	2353	21	
01/15/2020	44880690	45847	0.0458		0	52733.7	5.6	2374	25	
01/16/2020	44926537	49480	0.0495		0	52739.3	4.7	2399	23	
01/17/2020	44976017	42827	0.0428		0	52744	5.1	2422	20	
01/18/2020	45018844	51874	0.0519		0	52749.1	5.4	2442	23	
01/19/2020	45070718	**86500**	0.0865		0	52754.5	7.1	2465	28	
01/20/2020	45157218	**71123**	0.0711		0	52761.6	6.8	2493	26	
01/21/2020	45228341	49300	0.0493		0	52768.4	4.8	2519	21	
01/22/2020	45277641	64738	0.0647		0	52773.2	5.0	2540	27	
01/23/2020	45342379	56723	0.0567		0	52778.2	5.3	2567	23	
01/24/2020	45399102	70396	0.0704		0	52783.5	4.7	2590	21	
01/25/2020	45469498	**111383**	0.1114		0	52788.2	6.4	2611	27	
01/26/2020	45580881	**137118**	0.1371		0	52794.6	7.8	2638	27	
01/27/2020	45717999	**73348**	0.0733		0	52802.4	6.0	2665	24	
01/28/2020	45791347	60416	0.0604		0	52808.4	3.9	2689	19	
01/29/2020	45851763	**83325**	0.0833		0	52812.3	5.0	2708	26	
01/30/2020	45935088	**79595**	0.0796		0	52817.3	5.0	2734	23	
01/31/2020	46014683	**95736**	0.0957		0	52822.3	4.8	2757	20	
	46110419				0	52827.1		2777		

AVG		**63862**	**0.0639**			52749.1		2398	24
MAX		**137118**	**0.1371**			52822.3		2757	30
MIN		**38479**	**0.0385**			52696.6		2037	19

Total Flow (gals)	**1929864**
Total Flow (MG)	**1.930**
Avg Flow (GPD)	**62254**
Avg Flow (MGD)	**0.0623**

Date	Raw pH	Rain	Reactor DO	30 min. SET.	Blanket	Reactor temp	Final pH	Final Flow	Final Temp	Final DO	UV Intesity	BOD	TSS	NH3	NO2	NO3	Total P	Total Ortho	TKN	E Coli	Sludge Hauled
01/01/2020	7.1	0	3.4	600	10	14.2	7	43149	13.6	7.3	0.1										
01/02/2020	7.3	0	6.5	560	6	13.6	6.9	43693	14.0	7.1	0										
01/03/2020	7.3	0	5.7	620	10	14.4	7	44753	14.4	6.9	0.2										3100
01/04/2020	7.4	0	4.3	550	10.5	14.8	6.8	67734	14.8	7.3	0.1										
01/05/2020	7.3	0	5.5	540	10	13.6	7.1	59980	13.4	7.4	0.1										
01/06/2020	6.9	0	5.2	650	10	14.4	6.9	57169	13.8	7.6	0										
01/07/2020	6.8	0.1	5.2	580	9.5	14.2	6.7	54489	12.9	7.9	0.1	**5.63**	**25.0**	**0.331**	**NA**	**NA**	**NA**	**NA**	**NA**	**15.0**	
01/08/2020	6.8	0	5.1	650	10	13.2	6.9	49043	13.1	7.9	0										3100
01/09/2020	7.0	0	4.8	550	8	13.4	6.7	59180	12.5	8.3	0.1										
01/10/2020	6.9	0	6.9	560	8	13.2	6.9	48354	12.7	8.0	0.2										
01/11/2020	7.2	0	6.9	550	8	15.2	6.9	42061	14.8	7.4	0										
01/12/2020	6.8	0	5.1	580	9	15.1	6.7	80819	15.1	6.6	0										
01/13/2020	6.6	0	5	650	9.5	14.9	6.8	61105	13.2	6.9	0										
01/14/2020	6.6	0.5	5.2	650	10	14.3	6.6	38479	11.8	7.1	0										3100
01/15/2020	6.9	0	6.2	500	7	14.7	6.9	45847	14.7	7.7	0										
01/16/2020	7.0	0	6.5	620	5	14.4	7.2	49480	14.0	6.5	0	**3.44**	**10.0**	**0.308**	**NA**	**NA**	**NA**	**NA**	**NA**	**1.0**	
01/17/2020	6.8	0	6.9	520	8	12.9	7.1	42827	12.8	8.0	0										
01/18/2020	6.7	0	5.1	550	8	12.5	6.7	51874	12.5	7.9	0										
01/19/2020	6.9	0.01	5	700	8	13	6.9	86500	11.0	8.2	0										
01/20/2020	6.8	0	5.2	680	10	12.7	6.8	71123	11.3	8.3	0										
01/21/2020	6.9	0	8.3	680	10	12.5	7	49300	11.7	7.7	0	**2.45**	**31.0**	**0.248**	**NA**	**17.89**	**2.23**	**1.58**	**0.5**	**200.5**	
01/22/2020	7.1	0	6.1	660	10	12.1	7.1	64738	12.0	8	0										
01/23/2020	7.1	0	8	660	10	12.5	7.2	56723	13.0	8.4	0										
01/24/2020	7.1	0	6.3	540	10	12.8	7.2	70396	12.6	8.4	0										2700
01/25/2020	6.9	0.1	6.5	600	10	12.4	6.9	111383	12.8	8.6	0										
01/26/2020	7.0	0	5.1	600	10	12.3	6.9	137118	12.0	9.7	0										
01/27/2020	7.1	0	5	600	10	14.1	7.5	73348	13.5	8.3	0										
01/28/2020	6.8	0	2.9	650	9	12.9	6.8	60416	10.2	7.3	0	**NA**	**NA**	**0.202**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	
01/29/2020	7.0	0	5.7	680	9	12.8	7.1	83325	13.6	6.8	0										
01/30/2020	7.1	0	6.2	680	9	12.5	7.2	79595	12.8	7.9	0										
01/31/2020	7.1	0	5.9	670	10	12.6	7.3	95736	12.5	7.4	0										
																					12000

												BOD	TSS	NH3	NO2	NO3	Total P	Ortho	TKN	E-Coli
AVG	7.0	0.02	5.7	609	9.05	13.5	**7.0**	64553	13.0	**7.72**	0.0	**3.84**	**22.00**	**0.27**		**17.89**	**2.23**	**1.58**	**0.50**	**14.43**
MAX	7.4	0.5	8.3	700	10.50	15.2	**7.5**	137118	15.1	**9.70**	0.2	**5.63**	**31.00**	**0.33**		**17.89**	**2.23**	**1.58**	**0.50**	
MIN	6.60	0	2.9	500	5.00	12.1	**6.6**	38479	10.2	**6.50**	0.0	**2.45**	**10.00**	**0.20**		**17.89**	**2.23**	**1.58**	**0.50**	

Total lbs/day												1.99	11.42	0.14		9.29	1.16	0.82	0.26	Geomean
Total lbs/mo																	35.89			
Total lbs/yr																	422.60			

Total Flow (MG)	1.930
Avg Flow (MGD)	0.062

Total Nitrogen	9.55	Total lbs/day
	295.99	Total lbs/mo
	18.39	Monthly Avg
Organic Nitrogen	0.118	Total lbs/day
	0.228	Monthly Avg
BOD	1.99	Avg total lbs/day
	2.92	Max total lbs/day
TSS	11.4	Avg total lbs/day
	16.10	Max total lbs/day
NH3	0.141	Avg total lbs/day
	0.172	Max total lbs/day