

Village of Endicott
Industrial Pretreatment Dept.
c/o 1009 E. Main St.
Endicott, New York 13760

February 5, 2020

USEPA, Region II
Emergency and Remediation Response Division
290 Broadway
New York, New York 10007
Attn: Sherrel Henry

Re: Supplemental Purge Well,
Endicott Wellfield Site

Dear Ms. Henry:

Pursuant to EPA's approval of the Village of Endicott's proposal for a reduction in the frequency of monitoring and analysis for the Supplemental Purge Well, I am submitting a report for 2019 for the supplemental purge well as well as for the final effluent.

The average daily flows for 2019 are: 413,717 gal/day (287 gal/min)

Within this report are summaries of daily SPW flows, a listing of detectable VOC's for both SPW and final effluent, water level readings for 2019 and a Landfill Inspection Report.

If you have any questions concerning this report, please call me at 607-757-5352.

Sincerely,


Philip Grayson
Chief Operator, Wastewater

cc: NYSDEC, Payson Long

Supplemental Purge Well Daily Flow Readings: 2019 Gal./Day

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	449,000	537,000	565,000	447,500	449,000	344,000	460,000	518,000	378,000	386,000	404,000	385,000
2	503,000	406,667	284,000	361,000	363,000	462,000	384,000	463,000	378,000	473,000	412,000	443,000
3	379,000	406,667	511,500	456,000	422,000	462,000	455,000	360,000	41,000	443,000	412,000	444,000
4	472,000	406,667	511,500	423,000	407,000	402,000	437,500	488,500	102,000	397,000	464,500	306,000
5	465,667	427,000	404,000		457,500	422,000	437,500	488,500	428,000	265,000	464,500	472,000
6	465,667	446,000	363,000	319,000	457,500	467,000	315,000	447,000	379,000	314,000	420,500	295,000
7	465,667	390,000	419,000	482,000	506,000	393,000	439,500	497,000	429,500	341,000	420,500	399,500
8	486,000	574,000	411,000	482,000	447,000	418,000	439,500	407,000	429,500	356,000	372,000	399,500
9	428,500	327,000	368,000	427,000	364,000	418,000	377,000	438,000	553,000	285,000	279,000	389,000
10	428,500	478,500	446,000	437,000	447,000	488,000	513,000	378,000	362,000	406,000	408,500	338,000
11	425,000	478,500	446,000	489,000	438,000	374,000	399,000	498,500	364,000	355,000	408,500	386,000
12	389,500	428,000	397,000	445,000	438,000	482,000	353,000	498,500	348,000	420,000	505,000	448,000
13	389,500	369,000	494,000	434,000	438,000	423,500	406,333	400,000	379,000	420,000	347,000	375,000
14	499,000	513,000	389,000	434,000	443,000	423,500	406,333	400,000	370,000	420,000	483,000	338,000
15	505,000	385,000	398,000	368,000	447,000	356,000	406,333	367,000	462,000	473,000	339,000	309,333
16	381,000	435,500	425,000	413,000	435,000	442,667	371,000	502,000	462,000	420,000	389,000	309,333
17	442,000	435,500	425,000	468,000	484,500	442,667	442,000	361,000	436,000	450,000	457,500	309,333
18	543,000	481,000	469,000	392,000	484,500	442,667	451,000	506,500	372,000	377,000	415,000	107,000
19	404,667	489,000	388,000	424,000	334,000	427,000	409,000	506,500	491,000	295,000	350,000	94,000
20	404,667	411,000	538,000	424,000	532,000	417,000	359,000	303,000	487,000	638,000	483,000	70,000
21	404,667	411,000	367,000	482,500	436,000	436,000	435,000	496,000	311,000	638,000	415,000	94,000
22	483,000	464,000	450,000	482,500	381,000	453,333	435,000	425,333	460,000	184,000	415,000	107,000
23	441,000	420,000	432,333	450,000	490,000	453,333	346,000	425,333	460,000	184,000	335,000	77,000
24	441,000	441,000	432,333	534,000	472,000	453,333	497,000	425,333	363,000	386,000	439,500	350,000
25	441,000	449,000	432,333	344,000	287,000	350,000	417,000	425,333	487,000	386,000	439,500	381,000
26	431,000	403,000	449,000	510,000	435,500	443,000	280,000	468,000	448,000	403,667	430,000	342,000
27	431,000	431,000	418,000	297,000	435,500	349,000	472,000	428,000	448,000	403,667	292,000	283,000
28	431,000	353,000	445,000	478,500	496,000	534,000	472,000	395,000	388,500	414,000	437,000	328,000
29	435,000		447,500	478,500	459,000	297,000	472,000	476,000	388,500	414,000	347,000	427,000
30	445,000		447,500	531,000	412,000	460,000	393,000	476,000	479,000	347,000		293,000
31	431,000		447,500		451,000		376,000	378,000				
Total	13,741,000	12,197,000	13,420,500	12,723,500	13,549,000	12,736,000	12,819,000	13,608,000	11,884,000	12,098,000	12,257,000	9,400,000
Ave	443,258	435,607	432,919	438,741	437,065	423,889	409,423	438,968	396,133	390,258	408,567	303,226
Gal/Hr.	18,469	18,150	18,038	18,281	18,211	17,662	17,230	18,290	16,506	16,261	17,024	12,634
Gal/Min	308	303	301	305	304	294	287	305	275	271	284	211

Supplemental Purge Well Monthly Analysis: VOC's 2019 Detectable Quantities

Parameter	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Results in ug/L													
Vinyl Chloride	19.8										17.9		37.7
Chloromethane	<0.5										<1.0		0.0
Chloroethane	<0.5										<1.0		0.0
Methylene Chloride	<0.3										<1.0		0.0
Dichlorodifluoromethane	<0.3										<1.0		0.0
Trichloroethylene	0.529										<1.0		0.5
1,1-Dichloroethane	2.34										2.19		4.5
1,1-Dichloroethylene	<0.5										<1.0		0.0
cis-1,2-Dichloroethylene	21.1										21.2		42.3
cis-1,3-Dichloropropene	<0.3										<1.0		0.0
Chlorobenzene	2.76										2.7		5.5
Benzene	0.795										<1.0		0.8
Toluene	<0.3										<1.0		0.0
Chloroform	<0.13										<1.0		0.0
m-Xylene & p-Xylene	<0.5										<1.0		0.0
Total VOC's	47.32										44.0		91

Final Effluent
Monthly Analysis: VOC's
2019 Detectable Quantities

Parameter	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
Results in ug/L													
Vinyl Chloride	<0.3										<1.0		0
Chloromethane	<0.5										<1.0		0
Chloroethane	<0.5										<1.0		0
Methylene Chloride	<0.3										<1.0		0
Dichlorodifluoromethane	<0.3										<1.0		0
Trichloroethylene	<0.3										<1.0		0
1,1-Dichloroethane	<0.13										<1.0		0
1,1-Dichloroethylene	<0.5										<1.0		0
cis-1,2-Dichloroethylene	<0.3										<1.0		0
cis-1,3-Dichloropropene	<0.3										<1.0		0
Chlorobenzene	<0.13										<1.0		0
Benzene	<0.13										<1.0		0
Toluene	<0.3										<1.0		0.0
Chloroform	0.597										3.23		3.8
Bromodichloromethane	<0.3										1.99		2.0
m-Xylene & p-Xylene	<0.5										<1.0		0
Total VOC's	0.60										5.2		5.8

GROUNDWATER DEPTHS
VILLAGE OF ENDICOTT
ANNUAL SUMMARIES: 2019

Well No.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
B-4												
B-21												
EW-3D						20.5			25.5			
EW-8						21.6			26.7			
EW-9						17.4			22.3			
EW-11												
EW-12												
EW-14						20.9			24.4			
MW-3						29.5			34.5			
MW-6D						22.8			28.1			
MW-8D												
MW-9D												
MW-7S						18.9			24.7			
MW-7D						16.3			23.0			
MW-11												
MW-12												
MW-13D						11.3			15.8			
MW-21						30.4			35.5			
MW-22D						28.5			33.7			
MW-25D						16.3			22.0			
MW-29						12.5			17.2			
MW-30						22.6			27.8			
MW-31						22.3						
MW-32												
MW-33						18.2			23.6			
MW-34						14.4			19.5			
MW-35												
SPW						22.6			27.3			

Well No.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
B-4												
B-21												
EW-3D						797.83			792.83			
EW-8						801.74			796.64			
EW-9						801.21			796.31			
EW-11												
EW-12												
EW-14						802.14			798.64			
MW-3						801.02			796.02			
MW-6D						803.75			798.45			
MW-8D												
MW-9D												
MW-7S						804.31			798.51			
MW-7D						806.98			800.28			
MW-11												
MW-12												
MW-13D						802.99			798.49			
MW-21						804.16			799.06			
MW-22D						803.33			798.13			
MW-25D						805.22			799.52			
MW-29						804.01			799.31			
MW-30						800.87			795.67			
MW-31						800.70			823.00			
MW-32												
MW-33						801.17			795.77			
MW-34						800.97			795.87			
MW-35												
SPW						799.77			795.07			

Well No.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
B-4												
B-21												
EW-3D						797.83			792.83			
EW-8						801.74			796.64			
EW-9						801.21			796.31			
EW-11												
EW-12												
EW-14						802.14			798.64			
MW-3						801.02			796.02			
MW-6D						803.75			798.45			
MW-8D												
MW-9D												
MW-7S						804.31			798.51			
MW-7D						806.98			800.28			
MW-11												
MW-12												
MW-13D						802.99			798.49			
MW-21						804.16			799.06			
MW-22D						803.33			798.13			
MW-25D						805.22			799.52			
MW-29						804.01			799.31			
MW-30						800.87			795.67			
MW-31						800.70			823.00			
MW-32												
MW-33						801.17			795.77			
MW-34						800.97			795.87			
MW-35												
SPW						799.77			795.07			

POST CLOSURE INSPECTION FORM

Checklist

A. Capped Area

Capped area will be inspected by traversing the cover and observing for the following items:

		<u>No</u>	<u>Yes</u>
1.	Is there bare, dead or damaged grassed area?	<u>X</u>	___
2.	Is there evidence of cracks or subsidence?	<u>X</u>	___
3.	Is there evidence of burrowing by animals?	<u>X</u>	___
4.	Is there any deep-rooted vegetation present?	<u>X</u>	___
5.	Is there any erosion damage to grassed areas?	<u>X</u>	___

Comments: *(Required for each Yes answer)*

B. Paved Areas and Access Roads

The paved areas and access roads on the property will be inspected by traversing their entire length and observing for the following:

		<u>No</u>	<u>Yes</u>
1.	Is there any erosion damage to road/paved surface?	<u>X</u>	___
2.	Are there substantial potholes?	<u>X</u>	___
3.	Is there evidence of cracks or subsidence?	___	<u>X</u>

Comments: *(Required for each Yes answer)*

C. Site Drainage System

The drainage system will be inspected by traversing the full length of the system and examining for the following:

	<u>No</u>	<u>Yes</u>
Over-Cover Drainage		
1. Is there any damage to swales?	<u>X</u>	___
2. Is there any debris in swales?	<u>X</u>	___
3. Is there any sloughing of cap system?	<u>X</u>	___
Perimeter Drainage		
1. Is there any damage to drainage ditch?	<u>X</u>	___
2. Is there any debris or sediment in drainage ditch?	<u>X</u>	___
3. Seeps observed?	<u>X</u>	___

Comments (Required for each Yes answer)

D. Monitoring Wells

Monitoring Wells will be inspected for the following:

	<u>No</u>	<u>Yes</u>
1. Is there any damage to the lock or locking cap?	<u>X</u>	___
2. Is there any evidence of erosion of soils in the immediate area around the well casing?	<u>X</u>	___
3. Is concrete collar cracked or settled?	<u>X</u>	___

Comments (Required for each Yes answer)

E. Gas Vents

Gas vents will be inspected for the following:

	<u>No</u>	<u>Yes</u>
1. Is there any damage to the risers?	<u>X</u>	___
2. Are any insert screens broken or missing?	<u>X</u>	___

Comments (Required for each Yes answer)

3. Description of Air Monitoring Activities (*indicate readings*)

F. Security

Site security of the facility will be inspected by examining the following items:

	<u>No</u>	<u>Yes</u>
1. Is there any damage to gates?	<u>X</u>	___
2. Are there any damaged, missing or obstructed warning signs?	<u>X</u>	___

Comments (Required for each Yes answer)

Philip Grayson
Inspector
Philip Grayson
Signature

6/5/2019
Date