TEST Inc.
2323 Fourth Street
P.O. Box 483
Peru, Illinois 61354
815-224-1650
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(SBR)estinc.com

September 1, 2021

Client: Village of Poplar Grove
Attn: Don Sattler, Village President
200 Hill Street
P.O. Box 01
Poplar Grove, IL 61065

Plant Type: Wastewater Treatment Plants: North: Class II Sequential batch reactors (SBR).
South: Class I Sequential batch reactors (SBR).
Water Treatment Plants: Well Supply with Chemical Addition in all 3 locations

For the water system you will find attached the daily inspection and monitoring reports for each of the water plants and the distribution system testing record. For the wastewater side we have included the monthly DMR for both wastewater plants.

Outlined below are the processes and actions taken during August 2021 in Poplar Grove to improve the facilities equipment beyond required and routine maintenance, testing, inspection and reporting. At times we will also list upcoming needed improvements that may need attention by the Village.

We have hired a new employee for the Poplar Grove operations since Jason's transfer to Capron. Her name is Kim. She has worked with us for a couple weeks now and is working out great. She is picking up on things quickly and doing really well. She is already on the weekend rotation.

Lift Stations:

- We talked with Sable and we're looking to do our yearly lift station pump maintenance this fall.

North WWTP:

- All standard monthly checks/Maintenance/cleaning and producers were completed
- Pulled up all transducer and cleaned rag off of them.
- Pulled up all floats and cleaned rags off all of them.
- Cleaned out buildup of rags from influent screen.
- Took a sand filter offline, cleaned the sludge build up out of it, topped off with new sand and put back online.
- Pulled up influent screen to inspected and found what we thought was a hole in the screen material. Sable will be here to repair within the next few weeks, waiting on parts.

South WWTP:

- All standard monthly checks/Maintenance/cleaning and producers were completed
- Send sludge to drying bed.
- Decanted digesters.
- Looked up pricing on rehabbing another UV light system this winter and prices have almost tripled so we're looking for other ways to save some money.
- Changed a bad air bag on a SBR decanter.
- Pulled up screen like north plant but this screen looks good and the brushes are in good shape.
- Changed a transducer for EQ tank.

Water System:

- We think ComEd has fixed the power issues at well 5/6. It has now been about 2.5 weeks since a call out, but the generator is still there just in case.
- We reordered out "stock" of chemical pump/line/injector parts. This is so we have the parts on hand and don't need to wait on parts if we need to fix them.
- Fixed a CL2 line that was leaking at well 3.

All operations and plant inspections have been performed by me or under my direct supervision. As always, if you have any questions concerning the above, please do not hesitate to contact me.

Submitted by,
Total Environmental Service Technologies, Inc.

Ion Stear
Certified Operator/Manager

DMR Copy of Record

Permit

Permit #:	IL0071447	Permittee:	POPLAR GROVE, VILLAGE OF	Facility:	POPLAR GROVE SOUTH STP, VILLAGE OF
Major:	Yes	Permittee Address:	200 S HILL ST POPLAR GROVE, IL 61065	Facility Location:	12211 STATE ROUTE 76 POPLAR GROVE, IL 61065
Permitted Feature:	001 External Outfall	Discharge:	**001-S** SEMI ANNUAL SAMPLING @ 001		

Report Dates & Status

Monitoring Period:	**From 02/01/21 to 07/31/21**	DMR Due Date:	**08/25/21**	Status:	**NetDMR Validated**

Considerations for Form Completion

Principal Executive Officer

First Name:	Ion	Title:		Telephone:	815-224-1250
Last Name:	Stear				

No Data Indicator (NODI)

Form NODI: --

Parameter Code	Parameter Name	Monitoring Location	Season #	Param. NODI		Quantity or Loading Qualifier 1	Quantity or Loading Value 1	Quantity or Loading Qualifier 2	Quantity or Loading Value 2	Quantity or Loading Units	Quality or Concentration Qualifier 1	Quality or Concentration Value 1	Quality or Concentration Qualifier 2	Quality or Concentration Value 2	Quality or Concentration Qualifier 3	Quality or Concentration Value 3	Quality or Concentration Units	# of Ex.	Frequency of Analysis	Sample Type
00556	**Oil & Grease**	1 - Effluent Gross	0	--	Sample						<	5.0					19 - mg/L		09/99 - See Permit	GR - GRAB
					Permit Req.							Req Mon DAILY MX					19 - mg/L	0	09/99 - See Permit	GR - GRAB
					Value NODI															
00720	**Cyanide, total [as CN]**	1 - Effluent Gross	0	--	Sample						=	0.0					28 - ug/L		09/99 - See Permit	GR - GRAB
					Permit Req.							Req Mon DAILY MX					28 - ug/L	0	09/99 - See Permit	GR - GRAB
					Value NODI															
00722	**Cyanide, free [amen. to chlorination]**	1 - Effluent Gross	0	--	Sample						=	0.0					28 - ug/L		09/99 - See Permit	GR - GRAB
					Permit Req.							Req Mon DAILY MX					28 - ug/L	0	09/99 - See Permit	GR - GRAB
					Value NODI															
00951	**Fluoride, total [as F]**	1 - Effluent Gross	0	--	Sample						=	0.321					19 - mg/L		09/99 - See Permit	24 - COMP24
					Permit Req.							Req Mon DAILY MX					19 - mg/L	1	09/99 - See Permit	24 - COMP24
					Value NODI															
01002	**Arsenic, total [as As]**	1 - Effluent Gross	0	--	Sample						<	0.0049					19 - mg/L		09/99 - See Permit	24 - COMP24
					Permit Req.							Req Mon DAILY MX					19 - mg/L	0	09/99 - See Permit	24 - COMP24
					Value NODI															
01007	**Barium, total [as Ba]**	1 - Effluent Gross	0	--	Sample						=	0.0279					19 - mg/L		09/99 - See Permit	24 - COMP24
					Permit Req.							Req Mon DAILY MX					19 - mg/L	0	09/99 - See Permit	24 - COMP24
					Value NODI															
01027	**Cadmium, total [as Cd]**	1 - Effluent Gross	0	--	Sample						<	0.005					19 - mg/L		09/99 - See Permit	24 - COMP24
					Permit Req.							Req Mon DAILY MX					19 - mg/L	0	09/99 - See Permit	24 - COMP24
					Value NODI															
01032	**Chromium, hexavalent [as Cr]**	1 - Effluent Gross	0	--	Sample						<	0.005					19 - mg/L		09/99 - See Permit	GR - GRAB
					Permit Req.							Req Mon DAILY MX					19 - mg/L	0	09/99 - See Permit	GR - GRAB
					Value NODI															
01034	**Chromium, total [as Cr]**	1 - Effluent Gross	0	--	Sample						<	0.0076					19 - mg/L		09/99 - See Permit	24 - COMP24
					Permit Req.							Req Mon DAILY MX					19 - mg/L	0	09/99 - See Permit	24 - COMP24
					Value NODI															
01042	**Copper, total [as Cu]**	1 - Effluent Gross	0	--	Sample						=	0.0099					19 - mg/L		09/99 - See Permit	24 - COMP24
					Permit Req.							Req Mon DAILY MX					19 - mg/L	0	09/99 - See Permit	24 - COMP24
					Value NODI															
01045	**Iron, total [as Fe]**	1 - Effluent Gross	0	--	Sample						=	0.0818					19 - mg/L		09/99 - See Permit	24 - COMP24
					Permit Req.							Req Mon DAILY MX					19 - mg/L		09/99 - See Permit	24 - COMP24
					Value NODI															
01046	**Iron, dissolved [as Fe]**	1 - Effluent Gross	0	--	Sample						=	0.0407					19 - mg/L		09/99 - See Permit	24 - COMP24
					Permit Req.							Req Mon DAILY MX					19 - mg/L	0	09/99 - See Permit	24 - COMP24
					Value NODI															
01051	**Lead, total [as Pb]**	1 - Effluent Gross	0	--	Sample						<	0.0091					19 - mg/L		09/99 - See Permit	24 - COMP24
					Permit Req.							Req Mon DAILY MX					19 - mg/L	0	09/99 - See Permit	24 - COMP24
					Value NODI															

01055	**Manganese, total [as Mn]**	1 - Effluent Gross	0	--	Sample		=	0.0059	19 - mg/L		09/99 - See Permit	24 - COMP24
					Permit Req			Req Mon DAILY MX	19 - mg/L	0	09/99 - See Permit	24 - COMP24
					Value NODI							
01067	**Nickel, total [as Ni]**	1 - Effluent Gross	0	--	Sample		=	0.0062	19 - mg/L		09/99 - See Permit	24 - COMP24
					Permit Req			Req Mon DAILY MX	19 - mg/L	0	09/99 - See Permit	24 - COMP24
					Value NODI							
01077	**Silver, total [as Ag]**	1 - Effluent Gross	0	--	Sample		<	0.0084	19 - mg/L		09/99 - See Permit	24 - COMP24
					Permit Req			Req Mon DAILY MX	19 - mg/L	0	09/99 - See Permit	24 - COMP24
					Value NODI							
01092	**Zinc, total [as Zn]**	1 - Effluent Gross	0	--	Sample		=	0.0315	19 - mg/L		09/99 - See Permit	24 - COMP24
					Permit Req			Req Mon DAILY MX	19 - mg/L	1	09/99 - See Permit	24 - COMP24
					Value NODI							
01147	**Selenium, total [as Se]**	1 - Effluent Gross	0	--	Sample		<	0.0108	19 - mg/L		09/99 - See Permit	24 - COMP24
					Permit Req			Req Mon DAILY MX	19 - mg/L	0	09/99 - See Permit	24 - COMP24
					Value NODI							
32730	**Phenolics, total recoverable**	1 - Effluent Gross	0	--	Sample		=	0.0	19 - mg/L		09/99 - See Permit	GR - GRAB
					Permit Req			Req Mon DAILY MX	19 - mg/L	0	09/99 - See Permit	GR - GRAB
					Value NODI							
71900	**Mercury, total [as Hg]**	1 - Effluent Gross	0	--	Sample		=	0.0	3M - ng/L		09/99 - See Permit	GR - GRAB
					Permit Req			Req Mon DAILY MX	3M - ng/L	0	09/99 - See Permit	GR - GRAB
					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

Attachments

No attachments.

Report Last Saved By

POPLAR GROVE, VILLAGE OF

User:	ebumgarner
Name:	Elaine Bumgarner
E-Mail:	ebumgarner@testinc.com
Date/Time:	2021-08-25 08:38 (Time Zone: -05:00)

Report Last Signed By

User:	IONSTEAR
Name:	Ion Stear
E-Mail:	istear@testinc.com
Date/Time:	2021-08-25 10:18 (Time Zone: -05:00)

DMR Copy of Record

Permit

Permit #:	IL0071447	Permittee:	POPLAR GROVE, VILLAGE OF	Facility:	POPLAR GROVE SOUTH STP VILLAGE OF
Major:	Yes	Permittee Address:	200 S HILL ST POPLAR GROVE, IL 61065	Facility Location:	12211 STATE ROUTE 76 POPLAR GROVE, IL 61065
Permitted Feature:	INF Influent Structure	Discharge:	INF-L INFLUENT MONITORING		

Report Dates & Status

Monitoring Period:	**From 07/01/21 to 07/31/21**	DMR Due Date:	**08/25/21**	Status:	**NetDMR Validated**

Considerations for Form Completion

BOW ID: W0070150006

Principal Executive Officer

First Name:	Ion	Title:		Telephone:	815-224-1250
Last Name:	Stear				

No Data Indicator (NODI)

Form NODI: –

Parameter Code	Parameter Name	Monitoring Location	Season #	Param. NODI		Quantity or Loading Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Quality or Concentration Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units	# of Ex.	Frequency of Analysis	Sample Type
00310	**BOD, 5-day, 20 deg. C**	G - Raw Sewage Influent	0	–	Sample						=	144.5					19 - mg/L		03/DW - 3 Days Every Week	CP - COMPOS
					Permit Req.							Req Mon MO AVG					19 - mg/L	0	03/DW - 3 Days Every Week	CP - COMPOS
					Value NODI															
00530	**Solids, total suspended**	G - Raw Sewage Influent	0	–	Sample						=	201.0					19 - mg/L		03/DW - 3 Days Every Week	CP - COMPOS
					Permit Req.							Req Mon MO AVG					19 - mg/L	0	03/DW - 3 Days Every Week	CP - COMPOS
					Value NODI															
00665	**Phosphorus, total [as P]**	1 - Effluent Gross	0	–	Sample						=	5.35	=	9.16			19 - mg/L		03/DW - 3 Days Every Week	CP - COMPOS
					Permit Req.							Req Mon MO AVG		Req Mon DAILY MX			19 - mg/L	0	03/DW - 3 Days Every Week	CP - COMPOS
					Value NODI															
50050	**Flow, in conduit or thru treatment plant**	G - Raw Sewage Influent	0	–	Sample	=	0.116	=	0.207	03 - MGD									99/99 - Continuous	
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD								0	99/99 - Continuous	
					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

Attachments

No attachments.

Report Last Saved By

POPLAR GROVE, VILLAGE OF

User:	ebumgarner
Name:	Elaine Bumgarner
E-Mail:	ebumgarner@testinc.com
Date/Time:	2021-08-24 16:49 (Time Zone: -05:00)

Report Last Signed By

User:	IONSTEAR
Name:	Ion Stear
E-Mail:	istear@testinc.com
Date/Time:	2021-08-25 10:18 (Time Zone: -05:00)

DMR Copy of Record

Permit

Permit #:	IL0071447	Permittee:	POPLAR GROVE, VILLAGE OF	Facility:	POPLAR GROVE SOUTH STP, VILLAGE OF
Major:	Yes	Permittee Address:	200 S HILL ST POPLAR GROVE, IL 61065	Facility Location:	12211 STATE ROUTE 76 POPLAR GROVE, IL 61065
Permitted Feature:	001 External Outfall	Discharge:	001-0 STP OUTFALL		

Report Dates & Status

Monitoring Period:	From 07/01/21 to 07/31/21	DMR Due Date:	08/25/21	Status:	NetDMR Validated

Considerations for Form Completion

BOW ID: W0070150006; DMF LOAD LIMITS DISPLAYED.

Principal Executive Officer

First Name:	Ian	Title:		Telephone:	815-224-1250
Last Name:	Stear				

No Data Indicator (NODI)

Form NODI: --

Parameter Code	Parameter Name	Monitoring Location	Season #	Param. NODI		Quantity or Loading Qualifier 1	Quantity or Loading Value 1	Quantity or Loading Qualifier 2	Quantity or Loading Value 2	Quantity or Loading Units	Quality or Concentration Qualifier 1	Quality or Concentration Value 1	Quality or Concentration Qualifier 2	Quality or Concentration Value 2	Quality or Concentration Qualifier 3	Quality or Concentration Value 3	Quality or Concentration Units	# of Ex.	Frequency of Analysis	Sample Type
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	--	Sample								=	8.72	=	8.56	19 - mg/L		03/DW - 3 Days Every Week	GR - GRAB
					Permit Req.								>=	6.25 MN WK AV	>=	5.0 DAILY MN	19 - mg/L	0	03/DW - 3 Days Every Week	GR - GRAB
					Value NODI															
00400	pH	1 - Effluent Gross	0	--	Sample						=	8.06			=	8.38	12 - SU		03/DW - 3 Days Every Week	GR - GRAB
					Permit Req.						>=	6.0 MINIMUM			<=	9.0 MAXIMUM	12 - SU	0	03/DW - 3 Days Every Week	GR - GRAB
					Value NODI															
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample	=	4.0	=	7.3	26 - lb/d			=	2.2	=	4.0	19 - mg/L		03/DW - 3 Days Every Week	CP - COMPOS
					Permit Req.	<=	250.0 MO AVG	<=	500.0 DAILY MX	26 - lb/d			<=	12.0 MO AVG	<=	24.0 DAILY MX	19 - mg/L	0	03/DW - 3 Days Every Week	CP - COMPOS
					Value NODI															
00600	Nitrogen, total [as N]	1 - Effluent Gross	0	--	Sample								=	34.93	=	34.93	19 - mg/L		01/30 - Monthly	CP - COMPOS
					Permit Req.									Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L	0	01/30 - Monthly	CP - COMPOS
					Value NODI															
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	1	--	Sample	=	0.188	=	0.35	26 - lb/d			=	0.103	=	0.192	19 - mg/L		03/DW - 3 Days Every Week	CP - COMPOS
					Permit Req.	<=	31.0 MO AVG	<=	113.0 DAILY MX	26 - lb/d			<=	1.5 MO AVG	<=	5.4 DAILY MX	19 - mg/L	0	03/DW - 3 Days Every Week	CP - COMPOS
					Value NODI															
00610	Nitrogen, ammonia total [as N]	8 - Other Treatment, Process Complete	1	--	Sample			=	0.26	26 - lb/d					=	0.143	19 - mg/L		03/DW - 3 Days Every Week	CP - COMPOS
					Permit Req.			<=	79.0 WKLY AVG	26 - lb/d					<=	3.8 WKLY AVG	19 - mg/L	0	03/DW - 3 Days Every Week	CP - COMPOS
					Value NODI															
00665	Phosphorus, total [as P]	1 - Effluent Gross	0	--	Sample	=	0.37			26 - lb/d			=	0.21			19 - mg/L		03/DW - 3 Days Every Week	CP - COMPOS
					Permit Req.	<=	21.0 MO AVG			26 - lb/d			<=	1.0 MO AVG			19 - mg/L	0	03/DW - 3 Days Every Week	CP - COMPOS
					Value NODI															
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	0.219	=	0.379	03 - MGD									99/99 - Continuous	
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD								0	99/99 - Continuous	
					Value NODI															
50060	Chlorine, total residual	1 - Effluent Gross	0	--	Sample										=	0.0	19 - mg/L		CL/OC - Chlorination/Occurances	GR - GRAB
					Permit Req.										<=	0.05 DAILY MX	19 - mg/L	0	CL/OC - Chlorination/Occurances	GR - GRAB
					Value NODI															
					Sample										=	640.0	13 - #/100mL		03/DW - 3 Days Every Week	GR - GRAB

X 74055	**Coliform, fecal general**	1 - Effluent Gross	0	--	Permit Req.								<=	400.0 DAILY MX	13 - #/100mL	1	03/DW - 3 Days Every Week	GR - GRAB
					Value NODI													
					Sample	<	2.0	=	3.7	26 - lb/d	<	1.1	=	2.0	19 - mg/L		03/DW - 3 Days Every Week	CP - COMPOS
80082	**BOD, carbonaceous [5 day, 20 C]**	1 - Effluent Gross	0	--	Permit Req.	<=	209.0 MO AVG	<=	417.0 DAILY MX	26 - lb/d	<=	10.0 MO AVG	<=	20.0 DAILY MX	19 - mg/L	0	03/DW - 3 Days Every Week	CP - COMPOS
					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

Parameter		Monitoring Location	Field	Type	Description	Acknowledge
Code	Name					
74055	Coliform, fecal general	1 - Effluent Gross	Quality or Concentration Sample Value 3	Soft	The provided sample value is outside the permit limit. Please verify that the value you have provided is correct.	Yes

Comments

Fecal was grabbed before UV treatment by mistake. have corrected sample collector.

Attachments

No attachments.

Report Last Saved By

POPLAR GROVE, VILLAGE OF

User:	IONSTEAR
Name:	Ion Stear
E-Mail:	istear@testinc.com
Date/Time:	2021-08-25 09:54 (Time Zone: -05:00)

Report Last Signed By

User:	IONSTEAR
Name:	Ion Stear
E-Mail:	istear@testinc.com
Date/Time:	2021-08-25 10:18 (Time Zone: -05:00)

DMR Copy of Record

Permit

Permit #:	**IL0023451**	Permittee:	POPLAR GROVE, VILLAGE OF	Facility:	POPLAR GROVE - NORTH WWTP, VILLAGE OF
Major:	No	Permittee Address:	PO BOX 1 POPLAR GROVE, IL 61065	Facility Location:	205 EDSON RD POPLAR GROVE, IL 61065
Permitted Feature:	INF Influent Structure	Discharge:	**INF-L** INFLUENT MONITORING		

Report Dates & Status

Monitoring Period:	**From 07/01/21 to 07/31/21**	DMR Due Date:	**08/25/21**	Status:	**NetDMR Validated**

Considerations for Form Completion

BOW ID: W0070150007

Principal Executive Officer

First Name:	Ion	Title:		Telephone:	815-224-1250
Last Name:	Stear				

No Data Indicator (NODI)

Form NODI: --

Parameter Code	Parameter Name	Monitoring Location	Season #	Param. NODI		Quantity or Loading Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Quality or Concentration Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units	# of Ex.	Frequency of Analysis	Sample Type
00310	**BOD, 5-day, 20 deg. C**	G - Raw Sewage Influent	0	--	Sample						=	78.0					19 - mg/L		02/DA - 2 Days Every Week	CP - COMPOS
					Permit Req.							Req Mon MO AVG					19 - mg/L	0	02/DA - 2 Days Every Week	CP - COMPOS
					Value NODI															
00530	**Solids, total suspended**	G - Raw Sewage Influent	0	--	Sample						=	60.0					19 - mg/L		02/DA - 2 Days Every Week	CP - COMPOS
					Permit Req.							Req Mon MO AVG					19 - mg/L	0	02/DA - 2 Days Every Week	CP - COMPOS
					Value NODI															
50050	**Flow, in conduit or thru treatment plant**	G - Raw Sewage Influent	0	--	Sample	=	0.21	=	0.312	03 - MGD									99/99 - Continuous	
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD								0	99/99 - Continuous	
					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

Attachments

No attachments.

Report Last Saved By

POPLAR GROVE, VILLAGE OF

User:	ebumgarner
Name:	Elaine Bumgarner
E-Mail:	ebumgarner@testinc.com
Date/Time:	2021-08-24 16:41 (Time Zone: -05:00)

Report Last Signed By

User:	IONSTEAR
Name:	Ion Stear
E-Mail:	istear@testinc.com
Date/Time:	2021-08-25 10:18 (Time Zone: -05:00)

DMR Copy of Record

Permit

Permit #:	IL0023451	Permittee:	POPLAR GROVE, VILLAGE OF	Facility:	POPLAR GROVE - NORTH WWTP, VILLAGE OF
Major:	No	Permittee Address:	PO BOX 1 POPLAR GROVE, IL 61065	Facility Location:	205 EDSON RD POPLAR GROVE, IL 61065
Permitted Feature:	001 External Outfall	Discharge:	001-0 STP OUTFALL		

Report Dates & Status

Monitoring Period:	From 07/01/21 to 07/31/21	DMR Due Date:	08/25/21	Status:	NetDMR Validated

Considerations for Form Completion

BOW ID: W0070150007; DMF LOAD LIMITS DISPLAYED.MONITORING LOCATION "1" IS FORMONTHLY AVERAGE AND DAILY MAXIMUM.MONITORING LOCATION "8" IS FORWEEKLY AVERAGE.

Principal Executive Officer

First Name:	Ion	Title:		Telephone:	815-224-1250
Last Name:	Stear				

No Data Indicator (NODI)

Form NODI: –

Parameter Code	Parameter Name	Monitoring Location	Season #	Param. NODI		Quantity or Loading Qualifier 1	Quantity or Loading Value 1	Quantity or Loading Qualifier 2	Quantity or Loading Value 2	Quantity or Loading Units	Quality or Concentration Qualifier 1	Quality or Concentration Value 1	Quality or Concentration Qualifier 2	Quality or Concentration Value 2	Quality or Concentration Qualifier 3	Quality or Concentration Value 3	Quality or Concentration Units	# of Ex.	Frequency of Analysis	Sample Type
00300	Oxygen, dissolved [DO]	1 - Effluent Gross	0	–	Sample								=	7.195	=	7.18	19 - mg/L		02/DA - 2 Days Every Week	GR - GRAB
					Permit Req.								>=	6.25 MN WK AV	>=	5.0 DAILY MN	19 - mg/L	0	02/DA - 2 Days Every Week	GR - GRAB
					Value NODI															
00400	pH	1 - Effluent Gross	0	–	Sample						=	8.16			=	8.36	12 - SU		02/DA - 2 Days Every Week	GR - GRAB
					Permit Req.						>=	6.0 MINIMUM			<=	9.0 MAXIMUM	12 - SU	0	02/DA - 2 Days Every Week	GR - GRAB
					Value NODI															
00530	Solids, total suspended	1 - Effluent Gross	0	–	Sample	=	8.34	=	20.85	26 - lb/d			=	4.0	=	10.0	19 - mg/L		02/DA - 2 Days Every Week	CP - COMPOS
					Permit Req.	<=	125.0 MO AVG	<=	250.0 DAILY MX	26 - lb/d			<=	12.0 MO AVG	<=	24.0 DAILY MX	19 - mg/L	0	02/DA - 2 Days Every Week	CP - COMPOS
					Value NODI															
00610	Nitrogen, ammonia total [as N]	1 - Effluent Gross	0	–	Sample	=	0.834	=	5.5	26 - lb/d			=	0.4	=	2.65	19 - mg/L		02/DA - 2 Days Every Week	CP - COMPOS
					Permit Req.	<=	16.0 MO AVG	<=	31.0 DAILY MX	26 - lb/d			<=	1.5 MO AVG	<=	3.0 DAILY MX	19 - mg/L	0	02/DA - 2 Days Every Week	CP - COMPOS
					Value NODI															
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	–	Sample	=	0.25	=	0.31	03 - MGD									99/99 - Continuous	
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 - MGD								0	99/99 - Continuous	
					Value NODI															
50060	Chlorine, total residual	1 - Effluent Gross	0	–	Sample										=	0.0	19 - mg/L		01/30 - Monthly	GR - GRAB
					Permit Req.										<=	0.05 DAILY MX	19 - mg/L	0	01/30 - Monthly	GR - GRAB
					Value NODI															
74055	Coliform, fecal general	1 - Effluent Gross	0	–	Sample										=	1910.0	13 - #/100mL		01/30 - Monthly	GR - GRAB
					Permit Req.											Req Mon DAILY MX	13 - #/100mL	0	01/30 - Monthly	GR - GRAB
					Value NODI															
80082	BOD, carbonaceous [5 day, 20 C]	1 - Effluent Gross	0	–	Sample	=	2.6	=	4.17	26 - lb/d			=	1.25	=	2.0	19 - mg/L		02/DA - 2 Days Every Week	CP - COMPOS
					Permit Req.	<=	104.0 MO AVG	<=	209.0 DAILY MX	26 - lb/d			<=	10.0 MO AVG	<=	20.0 DAILY MX	19 - mg/L	0	02/DA - 2 Days Every Week	CP - COMPOS
					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

Attachments

No attachments.

Report Last Saved By

POPLAR GROVE, VILLAGE OF

User:	ebumgarner
Name:	Elaine Bumgarner
E-Mail:	ebumgarner@testinc.com
Date/Time:	2021-08-24 16:45 (Time Zone: -05:00)

Report Last Signed By

User:	IONSTEAR
Name:	Ion Stear
E-Mail:	istear@testinc.com
Date/Time:	2021-08-25 10:18 (Time Zone: -05:00)

VILLAGE OF POPLAR GROVE - WEST **IL0070350**
FOR THE MONTH OF July 2021 **MONTHLY OPERATING REPORT**
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF PUBLIC WATER SUPPLIES

		Flow Meter		Hour Meter Well 4		Chlorine Feed			Phosphate Feed			Flouride Feed		Operator
Date	Time	Reading	Pumpage	Reading	Hours	Scale	lbs Used	Free	Scale	lbs Used	PO4 mg/L	Scale	lbs Used	Initials
30-Jun	09:36	329509	49	7349.57	1.06	119.00	0.0	1.30	96	1.00	1.18	430.50	1.50	DS
1	09:05	329558	0	7350.63	0	119.00	2.0	1.27	95	3.00	1.06	429.00	0.20	JS
2		329603	67	7351.18	2.02	117.00	1.0	1.46	92	2.00	1.06	427.80	2.10	IS
3		329670	70	7353.2	1.58	116.00	1.0	1.14	90	2.00	0.66	425.70	2.50	JH
4		329740	44	7354.78	0.97	115.00	0.0	0.97	88	3.00	1.25	423.20	1.50	JH
5	09:42	329784	70	7355.75	1.61	115.00	1.0	1.23	85	3.00	1.31	421.70	2.10	JS
6	09:02	329854	44	7357.36	0.95	114.00	0.0	1.28	82	1.00	1.27	419.60	1.50	JS
7	09:05	329898	51	7358.31	1.54	114.00	0.6	1.04	81	5.00	1.28	418.10	1.90	JS
8	08:42	329949	54	7359.85	1.24	120.00	0.0	0.85	76/120	2.00	0.86	416.20	0.72	JS
9	08:26	33003	0.5	7361.09	1.08	120.00	0.5	0.98	118	1.00	0.80	423.40	2.60	JS
10	08:24	330053	53	7362.17	1.29	119.50	0.5	0.95	117	3.00	0.72	420.80	0.30	JS
11	08:14	330106	53	7363.46	113	119.00	0.0	0.97	114	1.00	0.95	421.10	0.60	JS
12	09:30	330159	49	7364.59	1.11	119.00	0.5	0.99	113	1.00	0.97	420.50	0.50	JS
13	09:32	330208	60	7365.7	0.5	118.50	0.5	0.96	112	4.00	0.99	420.00	1.50	JS
14	09:44	330268	47	7367.05	1.08	118.00	0.0	1.10	108	7.00	1.57	418.50	0.80	JS
15	08:45	330315	43	7368.13	0.97	118.00	0.5	2.00	106	4.00	2.33	417.70	1.10	JS
16	08:32	330358	52	7369.1	0.9	117.50	1.5	1.13	102	2.00	1.91	416.60	1.00	JS
17		330406	76	7370	1.88	116.00	2.0	199.00	100	6.00	2.07	415.60	2.30	JH
18		330472	44	7371.88	0.8	1140.00	1.0	1.08	94	4.00	1.89	413.30	1.30	JH
19	09:42	330516	59	7372.65	134	113.60	0.5	0.99	90	4.00	1.66	412.00	1.80	JS
20	09:20	330575	49	7373.97	1.1	112.50	0.5	1.21	86	3.00	1.92	410.20	1.50	JS
21	09:48	330624	49	7375.07	112	112.00	1.0	1.00	83/100	2.00	1.54	408.70	1.69	JS
22	08:37	330673	55	7376.19	1.25	111.00	1.0	1.06	98	1.00	1.16	407.10	2.00	JS
23	08:50	330728	59	7377.44	1.34	110.00	1.0	0.96	97	2.00	0.69	405.10	1.90	JS
24	08:58	330787	64	7378.78	1.44	109.00	0.0	1.10	98	3.00	0.75	4.03.2	2.00	JS
25	08:40	350851	80	7380.22	1.78	109.00	1.0	0.89	92	3.00	1.24	401.20	2.00	JS
26	08:48	330931	50	7382	113	108.00	0.5	1.09	0.89	0.00	1.12	399.20	1.80	JS
27	08:35	330981	70	7383.13	1.63	107.50	0.5	0.75	89	1.00	1.02	397.40	2.30	JS
28	08:50	331051	56	7384.73	113	107.00	1.0	1.00	88	1.00	0.69	395.01	1.60	JS
29	08:40	331107	63	7385.86	1.57	106.00	1.0	1.03	87	3.00	0.83	393.80	1.80	JS
30		331224	54	7387.43	1.21	108.00	4.0	0.94	84	0.00	1.44	391.70	1.70	JS
31		331224	50	7388.64	115	104.00	1.0	1.26	84	4.00	1.32	390.00	1.60	JH
1		331274		7389.79		103.00		1.31	0.8		1.39	388.4		JH
TOT			1635					234.29			40.90			
AVE			53					7.10			1.24			
MAX			80					199.00			2.33			
MIN			0					0.75			0.66			

SIGNATURE: Jon Stear
PHONE: 815-224-1650

VILLAGE OF POPLAR GROVE - SOUTH **IL0070300**
FOR THE MONTH OF July 2021 **MONTHLY OPERATING REPORT**
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF PUBLIC WATER SUPPLIES

		Flow Meter		Hour Meter Well 5		Hour Meter Well 6		Chlorine Feed			Phosphate Feed			Flouride Feed		Operator
Date	Time	Reading	Pumpage	Reading	Hours	Reading	Hours	Scale	lbs Used	Free	Scale	lbs Used	PO4 mg/L	Scale	lbs Used	Initials
30-Jun	10:18	527793	119	3216.6	1.9	4756.00	0	159.00	2.0	1.10	97	5.00	0.94	467.80	10.80	JS
1	10:01	527912	119	3218.5	1.7	4756.00	0	157.00	1.0	1.16	92	6.00	1.06	457.00	3.20	JS
2	8:00	528018	46	3220.2	2.3	4756.00	0	156.00	2.0	2.21	86	6.00	1.11	453.80	4.20	JH
3	8:00	528164	149	3222.5	2.3	4756.00	0	154.00	2.0	1.13	80	6.00	1.16	449.60	4.40	JH
4	8:00	528313	150	3224.8	2.3	4756.00	0	152.00	1.0	1.89	74	9.00	1.39	445.20	0.00	JS
5	10:35	528463	161	3227.1	0	4756.00	0	151.00	2.0	1.15	65/100	6.00	1.28	440.80	4.80	JS
6	9:53	528624	165	3229.7	2.5	4756.00	0	149.00	3.0	1.08	94	9.00	1.27	436.00	4.60	JS
7	9:58	528789	72	3232.2	1.2	4756.00	0	146.00	0.0	0.98	85	3.00	1.22	431.40	2.00	JS
8	9:51	528861	131	3233.4	0	4756.00	0	146.00	2.0	0.73	82	6.00	0.98	429.40	3.80	JS
9	9:34	528992	116	3235.4	1.9	4756.00	0	144.00	1.0	0.95	76/100	5.00	0.78	425.60	3.80	JS
10	8:53	529108	105	3237.3	1.6	4756.00	0	143.00	2.0	1.39	95	5.00	0.96	421.80	2.80	JS
11	8:50	529231	147	3238.9	2.3	4756.00	0	141.00	2.0	1.46	90	7.00	0.89	419.00	4.40	JS
12	10:20	529306	103	3241.2	1.6	4756.00	0	139.00	1.0	1.22	83	4.00	0.85	414.60	3.00	JS
13	10:25	529463	102	3242.8	1.7	4756.00	0	138.00	1.0	1.26	79	5.00	0.53	411.60	3.40	JS
14	10:30	529571	100	3244.5	1.6	4756.00	0	137.00	2.0	1.13	74	5.00	1.18	408.20	3.00	JS
15	10:02	529671	59	3246.1	0.9	4756.00	0	135.00	1.0	1.25	69/100	2.00	1.10	405.20	1.60	JS
16	9:40	529730	137	3247.0	2	4756.00	0	134.00	2.0	1.29	98	6.00	0.90	4036.00	4.00	JS
17		529367	98	3249.0	1	47560.00	0	132.00	1.0	0.97	92	4.00	0.96	3996.00	3.00	JH
18	0:00	529965	173	3250.0	3.3	4756.00	0	131.00	1.0	2.80	88	8.00	1.62	396.60	5.20	JH
19	10:50	530137	61	32533.0	2.6	4756.00	0	130.00	1.0	0.50	80	7.00	1.07	391.40	4.60	JH
20	10:12	530298	148	3255.9	2.3	4756.00	0	129.00	1.0	0.50	73	7.00	1.07	386.80	4.40	JS
21	10:25	530446	108	3258.2	1.7	4756.00	0	128.00	1.0	0.63	66/100	4.00	1.16	382.40	3.00	JS
22	9:55	530551	160	3259.9	2.4	4756.00	0	127.00	2.0	0.73	96	8.00	1.00	379.40	4.60	JS
23	10:23	530711	111	32623.0	1.8	4756.00	0	128.00	1.0	0.75	88	4.00	1.14	374.80	3.40	JS
24	8:12	530822	112	3264.1	1.7	4756.00	0	124.00	1.0	0.71	84	5.00	0.83	371.40	3.20	JS
25	9:10	530934	171	32658.0	2.7	4756.00	0	123.00	1.0	0.87	79	7.00	0.99	368.20	5.00	JS
26	9:40	531105	154	3268.5	2.4	4756.00	0	122.00	2.0	0.69	72/100	6.00	1.39	363.20	4.80	JS
27	9:35	531259	151	3268.5	2.4	4756.00	0	120.00	1.0	0.69	94	7.00	1.03	355.41	1.20	JS
28	9:10	531410	72	3273.3	1.1	4756.00	1	119.00	1.0	0.54	87	4.00	0.92	354.20	2.20	JS
29	9:48	531482	107	3274.4	1.7	4756.00	0	118.00	1.0	0.57	83	6.00	0.85	352.00	3.40	JS
30	10:20	531589	102	3276.1	1.8	4756.00	0	117.00	1.0	0.79	77	3.00	0.88	348.60	2.60	JS
31		531691	149	3277.7	2.3			116.00	1.0	1.60	74	6.00	168.00	346.00	4.40	JH
1		531839		3280				115.00		105.00	68		0.87	341.60		JH
TOT			3858				1			139.72			201.38			
AVE			121				0			4.23			6.10			
MAX			173				1			2.80			168.00			
MIN			46				0			0.50			0.53			

SIGNATURE: Jon Stear
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VILLAGE OF POPLAR GROVE - NORTH **IL0070150**
FOR THE MONTH OF July 2021 **MONTHLY OPERATING REPORT**
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF PUBLIC WATER SUPPLIES

		Flow Meter		Hour Meter Well 2		Hour Meter Well 3		Chlorine Feed			Phosphate Feed			Flouride Feed		Operator
Date	Time	Reading	Pumpage	Reading	Hours	Reading	Hours	Scale	lbs Used	Free	Scale	lbs Used	PO4 mg/L	Scale	lbs Used	Initials
30-Jun	8:49	280181102.8	133016.6	10063.0	0	25199.70	6.40	158.00	2.0	1.32	106	6.00	1.45	49.00	1.0	JS
1	8:42	280314119.4	159427.4	10063.0	0	25206.10	7.60	156.00	2.0	1.12	100	9.00	1.30	48.00	1.0	JS
2	8:00	280473546.8	169432.8	10063.0	0	25213.70	9.10	154.00	1.0	0.90	91	9.00	1.11	47.00	1.0	IS
3	8:00	280642979.6	173534.4	10063.0	0	25222.80	8.20	153.00	2.0	1.57	82	8.00	0.39	46.00	1.0	JH
4	8:00	280816514.0	135056.7	10063.0	0	25231.00	5.50	151.00	1.0	1.21	74	8.00	0.91	45.00	0.5	JH
5	9:00	280951570.7	198822.3	10063.0	0	25236.50	9.50	150.00	2.0	1.14	66/100	9.00	1.42	44.50	1.0	JS
6	8:41	281150393.0	161879.2	10063.0	0	25246.00	7.80	148.00	2.0	1.06	91	8.00	1.30	43.50	1.3	JS
7	8:15	281312272.2	152025.4	10063.0	0	25253.80	7.30	146.00	1.0	1.01	83	7.00	1.18	42.25	0.3	JS
8	8:11	281464297.6	137329.4	10063.0	0	25261.10	6.50	145.00	1.0	0.83	76/101	6.00	0.66	42.00	0.0	JS
9	8:10	281601627.0	158625.1	10063.0	0	25267.60	7.60	144.00	1.0	1.04	95	7.00	1.34	42.00	0.0	JS
10	8:08	281760252.1	144718.9	10063.0	0	25275.20	7.00	143.00	2.0	1.12	88	6.00	0.86	42.00	0.0	JS
11	7:58	281904971.0	158340.1	10063.0	0	25282.20	7.50	141.00	1.0	0.97	82	7.00	1.95	42.00	0.0	JS
12	9:00	282063311.1	152472.7	10063.0	0	25289.70	7.30	140.00	1.0	1.03	75	4.00	0.81	42.00	1.0	JS
13	9:10	282215783.8	135316.8	10063.0	0	25297.00	6.50	139.00	1.0	1.15	71	7.00	0.52	41.00	1.0	JS
14	9:10	282351100.6	125578.1	10063.0	0	25303.50	6.00	138.00	1.0	0.77	64	4.00	1.33	40.00	1.8	JS
15	8:08	282476678.7	124627	10063.0	0	25309.50	6.00	137.00	2.0	0.78	60/100	5.00	0.88	38.25	1.3	JS
16	8:08	282601305.7	153748.7	10063.0	0	25315.50	7.50	135.00	1.0	0.72	95	5.00	0.67	37.00	2.0	JS
17	8:00	282755054.4	129862.6	10063.0	0	25323.00	6.00	134.00	2.0	1.05	90	6.00	0.70	35.00	1.0	JH
18	8:00	282884917.0	194582.9	10063.0	0	25329.00	209.50	132.00	1.0	1.13	84	7.00	0.51	34.00	2.0	JH
19	9:18	283079499.9	153065.6	10063.0	0	25538.50	-192.70	131.00	2.0	1.08	77	5.00	1.70	32.00	1.0	JS
20	8:58	283232565.5	149678.8	10063.0	0	25345.80	7.20	129.00	1.0	1.06	72	7.00	0.99	31.00	1.5	JS
21	8:55	283382244.3	141156.1	10063.0	0	25353.00	6.80	128.00	1.5	1.22	65/100	5.00	1.39	29.50	1.5	JS
22	8:05	283523400.4	140755.2	10063.0	0	25359.80	6.70	126.50	1.5	1.21	95	6.00	0.85	28.00	1.5	JS
23	8:15	283664155.6	155093.6	10063.0	0	25366.50	7.40	125.00	3.0	0.41	89	6.00	0.73	26.50	1.5	JS
24	9:12	283819249.2	138982.5	10063.0	0	25373.90	6.60	122.00	1.0	1.33	83	6.00	1.20	25.00	1.0	JS
25	8:22	283958231.7	185290.2	10063.0	0	25380.50	9.00	121.00	2.0	1.51	77	7.00	0.48	24.00	0.8	JS
26	8:15	284143521.9	144393.8	10063.0	0	25389.50	7.00	119.00	1.0	1.11	70/100	5.00	0.93	23.25	2.0	JS
27	8:12	284287915.7	168181	10063.0	0	25396.50	7.90	118.00	2.0	0.97	95	7.00	1.05	21.25	1.3	JS
28	8:15	284456096.7	130744.6	10063.0	0	25404.40	6.40	116.00	1.0	1.25	88	5.00	1.00	20.00	1.0	JS
29	8:15	284586841.3	123641.4	10063.0	2	25410.80	6.00	115.00	1.0	1.21	83	5.00	0.69	19.00	1.8	JS
30	8:15	284710482.7	162843.5	10065.0	0	25416.80	7.80	114.00	2.0	0.71	78/100	4.00	0.50	17.25	1.3	JS
31	8:00	284873326.2	134560.9	10065.0	0	25424.60	6.40	112.00	1.0	1.04	96	6.00	1.32	16.00	1.0	JH
1	8:00	285007887.1		10065.0		25431.0		111.00		0.9	90		1.43	15		JH
TOT			4692223				225			34.97			33.55			
AVE			151362				7			1.06			1.02			
MAX			198822				210			1.57			1.95			
MIN			123641				-193			0.41			0.39			

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VILLAGE OF POPLAR GROVE **DAILY DISTRIBUTION MONITORING REPORT**
FOR THE MONTH OF July 2021
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF PUBLIC WATER SUPPLIES

	North System (Wells 2 & 3)				West System (Well 4)				South System (Wells 5 & 6)					Flouride Analysis				
Date	Site #	Free Cl_2	Total Cl_2	PO_4	Site #	Free Cl_2	Total Cl_2	PO_4	Site #	Free Cl_2	Total Cl_2	PO_4	Operator Initials	1.0 mg.L Standard	Well #2	Well #3	Well #4	Well#5-6
1	Tower	1.12		1.30	Tower	1.05		1.11	Tower	0.67		1.41	JS			0.31	0.41	0.45
2	Village Hall	0.53		1.00	Gas Station	0.63		0.79	Tower	0.71		1.32	JS			0.23	0.27	0.25
3																0.38	0.22	0.26
4																0.27	0.26	0.99
5	Tower	1.42		1.14	Gas Station	0.53		1.04	Tower	0.97		1.36	JS			0.22	0.25	0.31
6	Elem Schoo	0.58		2.31	Tower	0.90		1.26	Tower	0.95		1.49	JS			0.25	0.32	0.28
7	Village Hall	0.28		1.71	Gas Station	0.75		1.07	Tower	0.87		1.62	JS			0.23	0.24	0.26
8	Tower	0.83		0.66	Tower	0.73		0.48	Tower	0.61		1.40	JS			0.17	0.64	0.54
9	Tower	1.04		1.34	Tower	0.70		0.6	Tower	0.68		1.57	JS			0.17	0.66	0.46
10																0.12	0.62	0.39
11																0.16	0.62	0.50
12	Elem Schoo	0.41		2.15	Gas Station	0.41		0.88	Tower	0.99		1.36	JS			0.16	0.58	0.56
13	Tower	1.15		0.52	Tower	0.79		0.94	Tower	0.94		1.16	JS			0.17	0.66	0.58
14	Village Hall	0.19		1.70	Auto Garage	0.56		1.23	Tower	1.1		0.72	JS			0.19	0.66	0.73
15	Tower	0.78		0.88	Tower	0.77		1.39	Tower	0.94		1.35	JS			1.60	1.10	0.68
16	Tower	0.72		0.67	Tower	0.70		1.6	Tower	0.98		1.77	JS			0.91	0.69	0.64
17																2.10	0.92	0.69
18																1.20	0.62	2.70
19	Elem Schoo	0.4		1.87	Gas Station	0.31		1.43	Tower	0.69		1.30	JS			1.30	0.68	0.69
20	Tower	1.06		0.99	Tower	0.81		1.59	Tower	0.63		1.29	JS			1.10	0.61	0.78
21	Village Hall	0.16		1.72	Auto Garage	0.69		1.66	Tower	0.45		1.25	JS			1.50	0.60	0.63
22	Fire Dept	0.85		1.18	Tower	0.80		0.99	Tower	0.31		1.23	JS			0.74	0.69	0.81
23	Tower	0.41		0.73	Tower	0.93		0.24	Tower	0.61		1.13	JS			0.74	0.71	0.71
24																0.59	0.71	0.68
25																0.54	0.76	0.45
26	Elem Schoo	0.48		1.83	Gas Station	0.41		1.08	Tower	0.56		1.41	JS			0.68	1.50	0.82
27	Tower	0.97		1.05	Tower	0.63		0.68	Tower	0.64		1.31	JS			0.60	0.61	0.63
28	Village Hall	0.28		1.92	Auto garage	0.51		1.34	Tower	0.44		1.27	JS			1.50	0.69	0.66
29	Tower	1.21		0.59	Tower	0.83		0.43	Tower	0.55		1.32	JS			1.50	0.66	0.62
30	Tower	0.71		0.50	Tower	0.56		0.91	Tower	0.48		1.33	JS			0.93	0.59	0.68
31																1.40	0.89	0.70
1																		

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