

ANALYTICAL REPORT

Client: Slinger Water Utility
 Attn: Greg Moser
 300 Slinger Road
 Slinger, WI 53086

NLS Project: 346837

NLS Customer: 31933

Fax: 262 644 6341 Phone: 262 644 2630

Project: Water Quality Parameters PWS# 26701169

Tower 1 NLS ID: 1194842

COC: 229643:1 Matrix: DW

Collected: 06/22/20 10:45 Received: 06/23/20

Parameter	Result	Units	Dilution	LOD	LOQ/MCL	Analyzed	Method	Lab
Field pH by others	7.41	s.u.	1			06/22/20	EPA 150.1	NA
Field temperature by others	16.0	deg C	1			06/22/20	EPA 170.1	NA
Dissolved Ortho Phosphate by others	2.1	mg/L	1			06/22/20	HACH	NA
Alkalinity, tot. as CaCO3 (unfiltered)	340	mg/L	2	2.0	4.0	07/02/20	2320 B-1997	721026460
Aluminum, tot. recoverable as Al by ICP	ND	mg/L	1	0.024	0.079	06/24/20	EPA 200.7, Rev 4.4	721026460
Calcium, tot. recoverable as Ca by ICP	97	mg/L	1	0.035	0.12	06/24/20	EPA 200.7, Rev 4.4	721026460
Chloride, as Cl (unfiltered)	130	mg/L	20	3.4	12	06/25/20	EPA 300.0, Rev 2.1	721026460
Chlorine, total residual by others	0.97	mg/L	1			06/22/20	DPD Hach	NA
Chlorine, free available by others	0.82	mg/L	1			06/22/20	DPD Hach	NA
Conductivity, lab	1112	umho/cm@25C	1		*	06/23/20	2510 B-1997	721026460
Hardness, tot. recoverable, (calc/unfilt/icp)	480	mg/L	1	0.16	0.54	06/24/20	EPA 200.7, Rev 4.4	721026460
Iron, tot. recoverable as Fe by ICP	0.19	mg/L	1	0.0070	0.025	06/24/20	EPA 200.7, Rev 4.4	721026460
Manganese, tot. recoverable as Mn by ICP	16	ug/L	1	2.0	6.7	06/24/20	EPA 200.7, Rev 4.4	721026460
Phosphorus, tot. as P	1.7	mg/L	1	0.022	0.073	06/29/20	4500-P F-1999	721026460
Sulfate, as SO4 (unfiltered)	35	mg/L	20	2.8	10	06/25/20	EPA 300.0, Rev 2.1	721026460
Turbidity, screening - SDWA	ND	NTU	1	1.0*	1.0*	06/23/20	EPA 180.1	721026460

E-3 NLS ID: 1194843

COC: 229643:2 Matrix: DW

Collected: 06/22/20 10:30 Received: 06/23/20

Parameter	Result	Units	Dilution	LOD	LOQ/MCL	Analyzed	Method	Lab
Field pH by others	7.35	s.u.	1			06/22/20	EPA 150.1	NA
Field temperature by others	13.1	deg C	1			06/22/20	EPA 170.1	NA
Dissolved Ortho Phosphate by others	1.8	mg/L	1			06/22/20	HACH	NA
Alkalinity, tot. as CaCO3 (unfiltered)	340	mg/L	2	2.0	4.0	07/02/20	2320 B-1997	721026460
Aluminum, tot. recoverable as Al by ICP	ND	mg/L	1	0.024	0.079	06/24/20	EPA 200.7, Rev 4.4	721026460
Calcium, tot. recoverable as Ca by ICP	89	mg/L	1	0.035	0.12	06/24/20	EPA 200.7, Rev 4.4	721026460
Chloride, as Cl (unfiltered)	89	mg/L	20	3.4	12	06/25/20	EPA 300.0, Rev 2.1	721026460
Chlorine, total residual by others	2.1	mg/L	1			06/22/20	DPD Hach	NA
Chlorine, free available by others	1.8	mg/L	1			06/22/20	DPD Hach	NA
Conductivity, lab	972	umho/cm@25C	1		*	06/23/20	2510 B-1997	721026460
Hardness, tot. recoverable, (calc/unfilt/icp)	450	mg/L	1	0.16	0.54	06/24/20	EPA 200.7, Rev 4.4	721026460
Iron, tot. recoverable as Fe by ICP	0.035	mg/L	1	0.0070	0.025	06/29/20	EPA 200.7, Rev 4.4	721026460
Manganese, tot. recoverable as Mn by ICP	ND	ug/L	1	2.0	6.7	06/24/20	EPA 200.7, Rev 4.4	721026460
Phosphorus, tot. as P	1.8	mg/L	1	0.022	0.073	06/29/20	4500-P F-1999	721026460
Sulfate, as SO4 (unfiltered)	35	mg/L	20	2.8	10	06/25/20	EPA 300.0, Rev 2.1	721026460
Turbidity, screening - SDWA	ND	NTU	1	1.0*	1.0*	06/23/20	EPA 180.1	721026460

ANALYTICAL REPORT

Client: Slinger Water Utility
 Attn: Greg Moser
 300 Slinger Road
 Slinger, WI 53086

NLS Project: 346837

NLS Customer: 31933

Fax: 262 644 6341 Phone: 262 644 2630

Project: Water Quality Parameters PWS# 26701169

E-4 NLS ID: 1194844

COC: 229643:3 Matrix: DW

Collected: 06/22/20 10:20 Received: 06/23/20

Parameter	Result	Units	Dilution	LOD	LOQ/MCL	Analyzed	Method	Lab
Field pH by others	7.36	s.u.	1			06/22/20	EPA 150.1	NA
Field temperature by others	14.3	deg C	1			06/22/20	EPA 170.1	NA
Dissolved Ortho Phosphate by others	1.8	mg/L	1			06/22/20	HACH	NA
Alkalinity, tot. as CaCO3 (unfiltered)	390	mg/L	2	2.0	4.0	07/02/20	2320 B-1997	721026460
Aluminum, tot. recoverable as Al by ICP	ND	mg/L	1	0.024	0.079	06/24/20	EPA 200.7, Rev 4.4	721026460
Calcium, tot. recoverable as Ca by ICP	100	mg/L	1	0.035	0.12	06/24/20	EPA 200.7, Rev 4.4	721026460
Chloride, as Cl (unfiltered)	190	mg/L	50	8.5	29	06/25/20	EPA 300.0, Rev 2.1	721026460
Chlorine, total residual by others	1.3	mg/L	1			06/22/20	DPD Hach	NA
Chlorine, free available by others	1.3	mg/L	1			06/22/20	DPD Hach	NA
Conductivity, lab	1399	umho/cm@25C	1		*	06/23/20	2510 B-1997	721026460
Hardness, tot. recoverable, (calc/unfilt/icp)	490	mg/L	1	0.16	0.54	06/24/20	EPA 200.7, Rev 4.4	721026460
Iron, tot. recoverable as Fe by ICP	0.049	mg/L	1	0.0070	0.025	06/29/20	EPA 200.7, Rev 4.4	721026460
Manganese, tot. recoverable as Mn by ICP	19	ug/L	1	2.0	6.7	06/24/20	EPA 200.7, Rev 4.4	721026460
Phosphorus, tot. as P	1.5	mg/L	1	0.022	0.073	06/29/20	4500-P F-1999	721026460
Sulfate, as SO4 (unfiltered)	32	mg/L	50	7.0	25	06/25/20	EPA 300.0, Rev 2.1	721026460
Turbidity, screening - SDWA	ND	NTU	1	1.0*	1.0*	06/23/20	EPA 180.1	721026460

E-5 NLS ID: 1194845

COC: 229643:4 Matrix: DW

Collected: 06/22/20 11:25 Received: 06/23/20

Parameter	Result	Units	Dilution	LOD	LOQ/MCL	Analyzed	Method	Lab
Field pH by others	7.48	s.u.	1			06/22/20	EPA 150.1	NA
Field temperature by others	12.0	deg C	1			06/22/20	EPA 170.1	NA
Dissolved Ortho Phosphate by others	2.9	mg/L	1			06/22/20	HACH	NA
Alkalinity, tot. as CaCO3 (unfiltered)	340	mg/L	2	2.0	4.0	07/02/20	2320 B-1997	721026460
Aluminum, tot. recoverable as Al by ICP	ND	mg/L	1	0.024	0.079	06/24/20	EPA 200.7, Rev 4.4	721026460
Calcium, tot. recoverable as Ca by ICP	100	mg/L	1	0.035	0.12	06/24/20	EPA 200.7, Rev 4.4	721026460
Chloride, as Cl (unfiltered)	160	mg/L	20	3.4	12	06/25/20	EPA 300.0, Rev 2.1	721026460
Chlorine, total residual by others	1.1	mg/L	1			06/22/20	DPD Hach	NA
Chlorine, free available by others	1.0	mg/L	1			06/22/20	DPD Hach	NA
Conductivity, lab	1210	umho/cm@25C	1		*	06/23/20	2510 B-1997	721026460
Hardness, tot. recoverable, (calc/unfilt/icp)	500	mg/L	1	0.16	0.54	06/24/20	EPA 200.7, Rev 4.4	721026460
Iron, tot. recoverable as Fe by ICP	0.15	mg/L	1	0.0070	0.025	06/29/20	EPA 200.7, Rev 4.4	721026460
Manganese, tot. recoverable as Mn by ICP	57	ug/L	1	2.0	6.7	06/24/20	EPA 200.7, Rev 4.4	721026460
Phosphorus, tot. as P	1.5	mg/L	1	0.022	0.073	06/29/20	4500-P F-1999	721026460
Sulfate, as SO4 (unfiltered)	37	mg/L	20	2.8	10	06/25/20	EPA 300.0, Rev 2.1	721026460
Turbidity, screening - SDWA	ND	NTU	1	1.0*	1.0*	06/23/20	EPA 180.1	721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution and/or solids content.

ND = Not Detected (< LOD) LOD = Limit of Detection LOQ = Limit of Quantitation NA = Not Applicable

DWB = Dry Weight Basis %DWB = (mg/kg DWB) / 10000 1000 ug/L = 1 mg/L

MCL = Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.

Reviewed by:



Authorized by:
 R. T. Krueger
 President