



ADDRESS: 8 North Science Avenue, Laguna Technopark Inc., Brgy. Biñan (Poblacion), Biñan City, Laguna

CONTACT NO.: (049) 543-1916

WEBSITE: [www.lagunawater.com.ph](http://www.lagunawater.com.ph)

CUSTOMER NAME : Laguna AAWater Corporation

ADDRESS : G/F One Evotech Bldg., Nuvali, Santa Rosa City, Laguna, Philippines

ATTENTION : N/A

**SUMMARY OF LABORATORY ANALYSIS**

SAMPLE CODE : S20-1917 DATE/TIME SUBMITTED : 03/18/2020 10:49  
 DATE/TIME COLLECTION : 03/18/2020 09:45 COLLECTED BY : Elmer Palmares, Jr.  
 NO. OF SAMPLES : 1 TOTAL PARAMETERS TESTED : 15  
 SAMPLE LOCATION : WATER PUMP 2, AMAIA SCAPES CALAMBA, BRGY. BARANDAL, CALAMBA CITY, LAGUNA  
 SAMPLE CHARACTERISTICS : 4000 mL water sample in polyethylene bottle

PARAMETER(S)	UNIT	MDL	LOQ	RESULT(S)	METHOD(S)	ANALYSIS	
						DATE	BY
pH / Temperature	-/°C	NA	NA	6.45 / 28.0	4500-H*. Electrometric	03/18/2020	EPP
Residual Chlorine <sup>A</sup>	mg/L	0.063	0.200	0.420	4500-Cl-G.DPD Colorimetric	03/18/2020	EPP
Color	ACU	2	NA	<2	2120B. Visual Comparison (Pt-Co)	03/18/2020	KAP
Taste <sup>A</sup>	-	NA	NA	UO	2160. Sensory	03/18/2020	KAP
Odor <sup>A</sup>	-	NA	NA	UO	2150. Sensory	03/18/2020	KAP
Turbidity <sup>A</sup>	NTU	0.115	0.365	0.150	2130. Nephelometric	03/18/2020	KAP
Total Hardness as CaCO <sub>3</sub> <sup>A</sup>	mg/L	0.469	1.49	164	2340C. EDTA Titrimetric	03/20/2020	KAP
Total Dissolved Solids	mg/L	4.77	12.5	270	2540C. Gravimetric, dried @ 180°C	03/20/2020	KAP
Nitrate (NO <sub>3</sub> <sup>-</sup> ) <sup>A</sup>	mg/L	0.0574	0.183	6.67	4110B. Ion Chromatography with Chemical Suppression of Eluent Conductivity	03/19/2020	KAP
Chloride (Cl <sup>-</sup> ) <sup>A</sup>	mg/L	0.0372	0.119	4.91		03/19/2020	KAP
Fluoride (F <sup>-</sup> ) <sup>A</sup>	mg/L	0.0524	0.167	0.298		03/19/2020	KAP
Sulfate (SO <sub>4</sub> <sup>2-</sup> ) <sup>A</sup>	mg/L	0.0567	0.181	7.15		03/19/2020	KAP
Iron (Fe) <sup>A</sup>	mg/L	NA	0.005	0.070	3500-Fe B. Colorimetric	03/20/2020	KYA
Manganese (Mn) <sup>A</sup>	mg/L	NA	0.01	0.100		03/20/2020	KYA

REMARKS: Sample collection was performed by LWC Field analyst/technician and were analyzed as submitted.

DEVIATIONS: No deviations noted on sample collection and submission.

NOTE: A – Method is not part of DENR-ELR Recognized Parameters


LEGEND: ACU: Apparent Color Unit; NTU: Nephelometric Turbidity Unit; UO: Unobjectionable, NA: Not Applicable; MDL: Method Detection Limit; LOQ: Limit of Quantification

METHOD REFERENCE: Standard Methods for the Examination of Water and Wastewater, 23rd Edition


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CERTIFIED CORRECT BY:

  
KRISTEEN Y. ALDAY, RCh  
Analytical Services Unit Manager  
PRC License No. 0013295

AUTHORIZED BY:

  
ANNA KARLA S. GUTIERREZ, RMT  
Laboratory Services Manager  
License No. PRC 0060968

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ATTENTION : N/A

**SUMMARY OF LABORATORY ANALYSIS**

SAMPLE CODE : S20-2023 DATE/TIME SUBMITTED : 04/02/2020 11:50  
 DATE/TIME COLLECTION : 04/02/2020 10:23 COLLECTED BY : Elmer P. Palmares Jr.  
 NO. OF SAMPLES : 1 TOTAL PARAMETERS TESTED : 15  
 SAMPLE LOCATION : PHASE 1, AYALA GREENFIELDS ESTATE, BRGY. PUTING LUPA, CALAMBA CITY, LAGUNA  
 SAMPLE CHARACTERISTICS : 2000 mL water sample in polyethylene bottle

PARAMETER(S)	UNIT	MDL	LOQ	RESULT(S)	METHOD(S)	ANALYSIS	
						DATE	BY
pH / Temperature	-/°C	NA	NA	7.72	4500-H <sup>+</sup> . Electrometric	04/02/2020	EPP
Residual Chlorine <sup>A</sup>	mg/L	0.063	0.20	0.560	4500-Cl-G.DPD Colorimetric	04/02/2020	EPP
Color	ACU	2	NA	<2	2120B. Visual Comparison (Pt-Co)	04/02/2020	KAP
Taste <sup>A</sup>	-	NA	NA	UO	2160. Sensory	04/02/2020	KAP
Odor <sup>A</sup>	-	NA	NA	UO	2150. Sensory	04/02/2020	KAP
Turbidity <sup>A</sup>	NTU	0.115	0.365	<0.115	2130. Nephelometric	04/03/2020	KAP
Total Hardness as CaCO <sub>3</sub> <sup>A</sup>	mg/L	0.469	1.49	159	2340C. EDTA Titrimetric	04/03/2020	KAP
Total Dissolved Solids	mg/L	4.77	12.5	287	2540C. Gravimetric, dried @ 180°C	04/03/2020	KAP
Nitrate (NO <sub>3</sub> ) <sup>A</sup>	mg/L	0.0574	0.183	11.7	4110B. Ion Chromatography with Chemical Suppression of Eluent Conductivity	04/03/2020	KAP
Chloride (Cl) <sup>A</sup>	mg/L	0.0372	0.119	10.4		04/03/2020	KAP
Fluoride (F) <sup>A</sup>	mg/L	0.0524	0.167	0.304		04/03/2020	KAP
Sulfate (SO <sub>4</sub> <sup>2-</sup> ) <sup>A</sup>	mg/L	0.0567	0.181	24.1		04/03/2020	KAP
Iron (Fe) <sup>A</sup>	mg/L	NA	0.005	0.10	3500-Fe B. Colorimetric	04/03/2020	KYA
Manganese (Mn) <sup>A</sup>	mg/L	NA	0.01	0.03		04/03/2020	KYA

REMARKS: Sample collection was performed by LWC Field analyst/technician and were analyzed as submitted.

DEVIATIONS: No deviations noted on sample collection and submission.

NOTE: A – Method is not part of DENR-ELR Recognized Parameters


LEGEND: ACU: Apparent Color Unit; NTU: Nephelometric Turbidity Unit; UO: Unobjectionable; NA: Not Applicable; MDL: Method Detection Limit; LOQ: Limit of Quantification

METHOD REFERENCE: Standard Methods for the Examination of Water and Wastewater, 23rd Edition

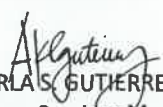
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AUTHORIZED BY:

  
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CUSTOMER NAME : Laguna AAWater Corporation

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ATTENTION : N/A

**SUMMARY OF LABORATORY ANALYSIS**

SAMPLE CODE : S20-2024 DATE/TIME SUBMITTED : 04/02/2020 11:50  
 DATE/TIME COLLECTION : 04/02/2020 10:13 COLLECTED BY : Elmer P. Palmares Jr.  
 NO. OF SAMPLES : 1 TOTAL PARAMETERS TESTED : 15  
 SAMPLE LOCATION : BLOCK 11, KANLAON ST., AYALA GREENFIELDS ESTATE, BRGY. PUTING LUPA, CALAMBA CITY, LAGUNA  
 SAMPLE CHARACTERISTICS : 2000 mL water sample in polyethylene bottle

PARAMETER(S)	UNIT	MDL	LOQ	RESULT(S)	METHOD(S)	ANALYSIS	
						DATE	BY
pH / Temperature	-/°C	NA	NA	7.65	4500-H*. Electrometric	04/02/2020	EPP
Residual Chlorine <sup>A</sup>	mg/L	0.063	0.20	0.570	4500-Cl-G.DPD Colorimetric	04/02/2020	EPP
Color	ACU	2	NA	<2	2120B. Visual Comparison (Pt-Co)	04/02/2020	KAP
Taste <sup>A</sup>	-	NA	NA	UO	2160. Sensory	04/02/2020	KAP
Odor <sup>A</sup>	-	NA	NA	UO	2150. Sensory	04/02/2020	KAP
Turbidity <sup>A</sup>	NTU	0.115	0.365	<0.115	2130. Nephelometric	04/03/2020	KAP
Total Hardness as CaCO <sub>3</sub> <sup>A</sup>	mg/L	0.469	1.49	157	2340C. EDTA Titrimetric	04/03/2020	KAP
Total Dissolved Solids	mg/L	4.77	12.5	283	2540C. Gravimetric, dried @ 180°C	04/03/2020	KAP
Nitrate (NO <sub>3</sub> ) <sup>A</sup>	mg/L	0.0574	0.183	11.6	4110B. Ion Chromatography with Chemical Suppression of Eluent Conductivity	04/03/2020	KAP
Chloride (Cl) <sup>A</sup>	mg/L	0.0372	0.119	10.2		04/03/2020	KAP
Fluoride (F) <sup>A</sup>	mg/L	0.0524	0.167	0.305		04/03/2020	KAP
Sulfate (SO <sub>4</sub> ) <sup>A</sup>	mg/L	0.0567	0.181	23.8		04/03/2020	KAP
Iron (Fe) <sup>A</sup>	mg/L	NA	0.005	0.17	3500-Fe B. Colorimetric	04/03/2020	KYA
Manganese (Mn) <sup>A</sup>	mg/L	NA	0.01	0.05		04/03/2020	KYA

REMARKS: Sample collection was performed by LWC Field analyst/technician and were analyzed as submitted.

DEVIATIONS: No deviations noted on sample collection and submission.

NOTE: A – Method is not part of DENR-ELR Recognized Parameters


LEGEND: ACU: Apparent Color Unit; NTU: Nephelometric Turbidity Unit; UO: Unobjectionable; NA: Not Applicable; MDL: Method Detection Limit; LOQ: Limit of Quantification

METHOD REFERENCE: Standard Methods for the Examination of Water and Wastewater, 23rd Edition

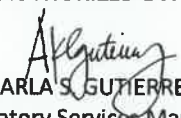
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ATTENTION : N/A

### SUMMARY OF LABORATORY ANALYSIS

SAMPLE CODE : S20-2025 DATE/TIME SUBMITTED : 04/02/2020 11:50  
 DATE/TIME COLLECTION : 04/02/2020 10:36 COLLECTED BY : Elmer P. Palmares Jr.  
 NO. OF SAMPLES : 1 TOTAL PARAMETERS TESTED : 15  
 SAMPLE LOCATION : CLUBHOUSE, AYALA GREENFIELDS ESTATE, BRGY. PUTTING LUPA, CALAMBA CITY, LAGUNA  
 SAMPLE CHARACTERISTICS : 2000 mL water sample in polyethylene bottle

PARAMETER(S)	UNIT	MDL	LOQ	RESULT(S)	METHOD(S)	ANALYSIS	
						DATE	BY
pH / Temperature	-/°C	NA	NA	7.79	4500-H*. Electrometric	04/02/2020	EPP
Residual Chlorine <sup>A</sup>	mg/L	0.063	0.20	0.380	4500-Cl-G.DPD Colorimetric	04/02/2020	EPP
Color	ACU	2	NA	<2	2120B. Visual Comparison (Pt-Co)	04/02/2020	KAP
Taste <sup>A</sup>	-	NA	NA	UO	2160. Sensory	04/02/2020	KAP
Odor <sup>A</sup>	-	NA	NA	UO	2150. Sensory	04/02/2020	KAP
Turbidity <sup>A</sup>	NTU	0.115	0.365	0.150	2130. Nephelometric	04/03/2020	KAP
Total Hardness as CaCO <sub>3</sub> <sup>A</sup>	mg/L	0.469	1.49	162	2340C. EDTA Titrimetric	04/03/2020	KAP
Total Dissolved Solids	mg/L	4.77	12.5	293	2540C. Gravimetric, dried @ 180°C	04/03/2020	KAP
Nitrate (NO <sub>3</sub> ) <sup>A</sup>	mg/L	0.0574	0.183	12.7	4110B. Ion Chromatography with Chemical Suppression of Eluent Conductivity	04/03/2020	KAP
Chloride (Cl <sup>-</sup> ) <sup>A</sup>	mg/L	0.0372	0.119	9.61		04/03/2020	KAP
Fluoride (F <sup>-</sup> ) <sup>A</sup>	mg/L	0.0524	0.167	0.300		04/03/2020	KAP
Sulfate (SO <sub>4</sub> <sup>2-</sup> ) <sup>A</sup>	mg/L	0.0567	0.181	23.8		04/03/2020	KAP
Iron (Fe) <sup>A</sup>	mg/L	NA	0.005	0.15	3500-Fe B. Colorimetric	04/03/2020	KYA
Manganese (Mn) <sup>A</sup>	mg/L	NA	0.01	0.01		04/03/2020	KYA

REMARKS: Sample collection was performed by LWC Field analyst/technician and were analyzed as submitted.

DEVIATIONS: No deviations noted on sample collection and submission.

NOTE: A – Method is not part of DENR-ELR Recognized Parameters

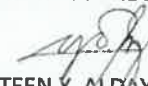
LEGEND: ACU: Apparent Color Unit; NTU: Nephelometric Turbidity Unit; UO: Unobjectionable; NA: Not Applicable; MDL: Method Detection Limit; LOQ: Limit of Quantification

METHOD REFERENCE: Standard Methods for the Examination of Water and Wastewater, 23rd Edition

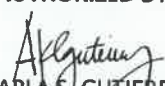
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ATTENTION : N/A

### SUMMARY OF LABORATORY ANALYSIS

SAMPLE CODE : S20-2027 DATE/TIME SUBMITTED : 04/02/2020 11:50  
 DATE/TIME COLLECTION : 04/02/2020 09:45 COLLECTED BY : Elmer P. Palmares Jr.  
 NO. OF SAMPLES : 1 TOTAL PARAMETERS TESTED : 15  
 SAMPLE LOCATION : BLOCK 1 LOT 2, AMAIA SCAPES, CALAMBA, BRGY. BARANDAL, CALAMBA CITY, LAGUNA  
 SAMPLE CHARACTERISTICS : 2000 mL water sample in polyethylene bottle

PARAMETER(S)	UNIT	MDL	LOQ	RESULT(S)	METHOD(S)	ANALYSIS	
						DATE	BY
pH / Temperature	-/°C	NA	NA	7.67	4500-H <sup>+</sup> . Electrometric	04/02/2020	EPP
Residual Chlorine <sup>A</sup>	mg/L	0.063	0.20	0.390	4500-Cl-G.DPD Colorimetric	04/02/2020	EPP
Color	ACU	2	NA	<2	2120B. Visual Comparison (Pt-Co)	04/02/2020	KAP
Taste <sup>A</sup>	-	NA	NA	UO	2160. Sensory	04/02/2020	KAP
Odor <sup>A</sup>	-	NA	NA	UO	2150. Sensory	04/02/2020	KAP
Turbidity <sup>A</sup>	NTU	0.115	0.365	<0.115	2130. Nephelometric	04/03/2020	KAP
Total Hardness as CaCO <sub>3</sub> <sup>A</sup>	mg/L	0.469	1.49	161	2340C. EDTA Titrimetric	04/03/2020	KAP
Total Dissolved Solids	mg/L	4.77	12.5	193	2540C. Gravimetric, dried @ 180°C	04/03/2020	KAP
Nitrate (NO <sub>3</sub> ) <sup>A</sup>	mg/L	0.0574	0.183	11.7	4110B. Ion Chromatography with Chemical Suppression of Eluent Conductivity	04/03/2020	KAP
Chloride (Cl) <sup>A</sup>	mg/L	0.0372	0.119	5.09		04/03/2020	KAP
Fluoride (F) <sup>A</sup>	mg/L	0.0524	0.167	0.305		04/03/2020	KAP
Sulfate (SO <sub>4</sub> <sup>2-</sup> ) <sup>A</sup>	mg/L	0.0567	0.181	11.5		04/03/2020	KAP
Iron (Fe) <sup>A</sup>	mg/L	NA	0.005	0.08	3500-Fe B. Colorimetric	04/03/2020	KYA
Manganese (Mn) <sup>A</sup>	mg/L	NA	0.01	0.01		04/03/2020	KYA

REMARKS: Sample collection was performed by LWC Field analyst/technician and were analyzed as submitted.

DEVIATIONS: No deviations noted on sample collection and submission.

NOTE: A – Method is not part of DENR-ELR Recognized Parameters


LEGEND: ACU: Apparent Color Unit; NTU: Nephelometric Turbidity Unit; UO: Unobjectionable; NA: Not Applicable; MDL: Method Detection Limit; LOQ: Limit of Quantification

METHOD REFERENCE: Standard Methods for the Examination of Water and Wastewater, 23rd Edition

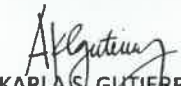
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ATTENTION : N/A

**SUMMARY OF LABORATORY ANALYSIS**

SAMPLE CODE : S20-2028 DATE/TIME SUBMITTED : 04/02/2020 11:50  
 DATE/TIME COLLECTION : 04/02/2020 09:33 COLLECTED BY : Elmer P. Palmares Jr.  
 NO. OF SAMPLES : 1 TOTAL PARAMETERS TESTED : 15  
 SAMPLE LOCATION : WATER PUMP 2, AMAIA SCAPES CALAMBA, BRGY. BARANDAL, CALAMBA CITY, LAGUNA  
 SAMPLE CHARACTERISTICS : 2000 mL water sample in polyethylene bottle

PARAMETER(S)	UNIT	MDL	LOQ	RESULT(S)	METHOD(S)	ANALYSIS	
						DATE	BY
pH / Temperature	-/°C	NA	NA	7.61	4500-H*. Electrometric	04/02/2020	EPP
Residual Chlorine <sup>A</sup>	mg/L	0.063	0.20	0.430	4500-Cl-G.DPD Colorimetric	04/02/2020	EPP
Color	ACU	2	NA	<2	2120B. Visual Comparison (Pt-Co)	04/02/2020	KAP
Taste <sup>A</sup>	-	NA	NA	UO	2160. Sensory	04/02/2020	KAP
Odor <sup>A</sup>	-	NA	NA	UO	2150. Sensory	04/02/2020	KAP
Turbidity <sup>A</sup>	NTU	0.115	0.365	<0.115	2130. Nephelometric	04/03/2020	KAP
Total Hardness as CaCO <sub>3</sub> <sup>A</sup>	mg/L	0.469	1.49	162	2340C. EDTA Titrimetric	04/03/2020	KAP
Total Dissolved Solids	mg/L	4.77	12.5	270	2540C. Gravimetric, dried @ 180°C	04/03/2020	KAP
Nitrate (NO <sub>3</sub> ) <sup>A</sup>	mg/L	0.0574	0.183	7.43	4110B. Ion Chromatography with Chemical Suppression of Eluent Conductivity	04/03/2020	KAP
Chloride (Cl) <sup>A</sup>	mg/L	0.0372	0.119	4.91		04/03/2020	KAP
Fluoride (F) <sup>A</sup>	mg/L	0.0524	0.167	0.309		04/03/2020	KAP
Sulfate (SO <sub>4</sub> <sup>2-</sup> ) <sup>A</sup>	mg/L	0.0567	0.181	7.92		04/03/2020	KAP
Iron (Fe) <sup>A</sup>	mg/L	NA	0.005	0.10	3500-Fe B. Colorimetric	04/03/2020	KYA
Manganese (Mn) <sup>A</sup>	mg/L	NA	0.01	0.04		04/03/2020	KYA

REMARKS: Sample collection was performed by LWC Field analyst/technician and were analyzed as submitted.

DEVIATIONS: No deviations noted on sample collection and submission.

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LEGEND: ACU: Apparent Color Unit; NTU: Nephelometric Turbidity Unit; UO: Unobjectionable; NA: Not Applicable; MDL: Method Detection Limit; LOQ: Limit of Quantification

METHOD REFERENCE: Standard Methods for the Examination of Water and Wastewater, 23rd Edition


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CUSTOMER NAME : Laguna AAWater Corporation

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ATTENTION : N/A

### SUMMARY OF LABORATORY ANALYSIS

**SAMPLE CODE** : S20-2029 **DATE/TIME SUBMITTED** : 04/02/2020 11:50  
**DATE/TIME COLLECTION** : 04/02/2020 09:23 **COLLECTED BY** : Elmer P. Palmares Jr.  
**NO. OF SAMPLES** : 1 **TOTAL PARAMETERS TESTED** : 15  
**SAMPLE LOCATION** : BLOCK 39 LOT 5, AMAIA SCAPES CALAMBA, BRGY. BARANDAL, CALAMBA CITY, LAGUNA  
**SAMPLE CHARACTERISTICS** : 2000 mL water sample in polyethylene bottle

PARAMETER(S)	UNIT	MDL	LOQ	RESULT(S)	METHOD(S)	ANALYSIS	
						DATE	BY
pH / Temperature	-/°C	NA	NA	7.71	4500-H <sup>+</sup> . Electrometric	04/02/2020	EPP
Residual Chlorine <sup>A</sup>	mg/L	0.063	0.20	0.360	4500-Cl-G.DPD Colorimetric	04/02/2020	EPP
Color	ACU	2	NA	<2	2120B. Visual Comparison (Pt-Co)	04/02/2020	KAP
Taste <sup>A</sup>	-	NA	NA	UO	2160. Sensory	04/02/2020	KAP
Odor <sup>A</sup>	-	NA	NA	UO	2150. Sensory	04/02/2020	KAP
Turbidity <sup>A</sup>	NTU	0.115	0.365	0.150	2130. Nephelometric	04/03/2020	KAP
Total Hardness as CaCO <sub>3</sub> <sup>A</sup>	mg/L	0.469	1.49	161	2340C. EDTA Titrimetric	04/03/2020	KAP
Total Dissolved Solids	mg/L	4.77	12.5	267	2540C. Gravimetric, dried @ 180°C	04/03/2020	KAP
Nitrate (NO <sub>3</sub> ) <sup>A</sup>	mg/L	0.0574	0.183	7.11	4110B. Ion Chromatography with Chemical Suppression of Eluent Conductivity	04/03/2020	KAP
Chloride (Cl) <sup>A</sup>	mg/L	0.0372	0.119	5.01		04/03/2020	KAP
Fluoride (F) <sup>A</sup>	mg/L	0.0524	0.167	0.311		04/03/2020	KAP
Sulfate (SO <sub>4</sub> <sup>2-</sup> ) <sup>A</sup>	mg/L	0.0567	0.181	8.30		04/03/2020	KAP
Iron (Fe) <sup>A</sup>	mg/L	NA	0.005	0.11	3500-Fe B. Colorimetric	04/03/2020	KYA
Manganese (Mn) <sup>A</sup>	mg/L	NA	0.01	0.03		04/03/2020	KYA

REMARKS: Sample collection was performed by LWC Field analyst/technician and were analyzed as submitted.

DEVIATIONS: No deviations noted on sample collection and submission.

NOTE: A – Method is not part of DENR-ELR Recognized Parameters


LEGEND: ACU: Apparent Color Unit; NTU: Nephelometric Turbidity Unit; UO: Unobjectionable; NA: Not Applicable; MDL: Method Detection Limit; LOQ: Limit of Quantification

METHOD REFERENCE: Standard Methods for the Examination of Water and Wastewater, 23rd Edition


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