



**Department of Public Works
Water Quality Laboratory**

CustomerName:
LOPEZ PROJECT

Analytical Report

Delivered Water		230919003-00	Sample Date:	10/6/2023 10:00 AM	Sampler: McLean			
<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>RL</u>	<u>MCL</u>	<u>Method</u>	<u>Analyst</u>	<u>Anal. Date</u>	<u>Qualifier</u>
Chlorine Dioxide Residual by Amperometric Titr	< 0.02	mg/L	0.1	0.8	SCLO2E	BMclean	10/6/2023	
Chlorite by Amperometric Tiration	0.63	mg/L	0.1	1	SCLO2E	BMclean	10/6/2023	
On-line Chlorite Analyzer Reading	0.68	mg/L			None	BMclean	10/6/2023	
Delivered Water		230920003-00	Sample Date:	10/7/2023 8:23 AM	Sampler: McLean			
<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>RL</u>	<u>MCL</u>	<u>Method</u>	<u>Analyst</u>	<u>Anal. Date</u>	<u>Qualifier</u>
Chlorine Dioxide Residual by Amperometric Titr	< 0.02	mg/L	0.1	0.8	SCLO2E	BMclean	10/7/2023	
Chlorite by Amperometric Tiration	0.73	mg/L	0.1	1	SCLO2E	BMclean	10/7/2023	
On-line Chlorite Analyzer Reading	0.69	mg/L			None	BMclean	10/7/2023	
Delivered Water		230921003-00	Sample Date:	10/8/2023 9:00 AM	Sampler: McLean			
<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>RL</u>	<u>MCL</u>	<u>Method</u>	<u>Analyst</u>	<u>Anal. Date</u>	<u>Qualifier</u>
Chlorine Dioxide Residual by Amperometric Titr	< 0.02	mg/L	0.1	0.8	SCLO2E	BMclean	10/8/2023	
Chlorite by Amperometric Tiration	0.64	mg/L	0.1	1	SCLO2E	BMclean	10/8/2023	
On-line Chlorite Analyzer Reading	0.68	mg/L			None	BMclean	10/8/2023	
Delivered Water		230922014-00	Sample Date:	10/9/2023 10:16 AM	Sampler: Jgarcia			
<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>RL</u>	<u>MCL</u>	<u>Method</u>	<u>Analyst</u>	<u>Anal. Date</u>	<u>Qualifier</u>
Chlorine Dioxide Residual by Amperometric Titr	0.10	mg/L	0.1	0.8	SCLO2E	JGarcia	10/9/2023	
Chlorite by Amperometric Tiration	0.62	mg/L	0.1	1	SCLO2E	JGarcia	10/9/2023	
On-line Chlorite Analyzer Reading	0.68	mg/L			None	JGarcia	10/9/2023	
Lopez Treatment Plant Treated		230922015-00	Sample Date:	10/9/2023 10:35 AM	Sampler: Jgarcia			
<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>RL</u>	<u>MCL</u>	<u>Method</u>	<u>Analyst</u>	<u>Anal. Date</u>	<u>Qualifier</u>
Chlorine Dioxide Residual by Amperometric Titr	0.18	mg/L	0.1	0.8	SCLO2E	JGarcia	10/9/2023	
Chlorite by Amperometric Tiration	0.74	mg/L	0.1	1	SCLO2E	JGarcia	10/9/2023	
On-line Chlorite Analyzer Reading	0.81	mg/L			None	JGarcia	10/9/2023	
Delivered Water		230922017-00	Sample Date:	10/9/2023 10:50 AM	Sampler: Egarcia			
<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>RL</u>	<u>MCL</u>	<u>Method</u>	<u>Analyst</u>	<u>Anal. Date</u>	<u>Qualifier</u>
E. coli Presence/Absence	Absent	Present/Absent		0.9	S9223B	MDAndrews	10/10/2023	
Heterotrophic Plate Count	< 1	CFU/mL	1	500	S9215B	MDAndrews	10/11/2023	
Odor Type @ 60°C (A/B/C/D/E/G/M/V)	E	Odor Type			S2150B	VVogel	10/9/2023	
Temperature	20.8	°C			S2550B	EGarcia	10/9/2023	
Threshold Odor @ 60°C	2.0	TON	1	3	S2150B	VVogel	10/9/2023	
Total Chlorine Residual (measured in the field)	2.64	mg/L	0.1	4	SCL-G	EGarcia	10/9/2023	
Total Coliform Presence/Absence	Absent	Present/Absent		0.9	S9223B	MDAndrews	10/10/2023	
Turbidity (measured in field)	0.11	NTU	0.03		S2130B	EGarcia	10/9/2023	
Domestic Tank		230922017-01	Sample Date:	10/9/2023 10:32 AM	Sampler: Egarcia			
<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>RL</u>	<u>MCL</u>	<u>Method</u>	<u>Analyst</u>	<u>Anal. Date</u>	<u>Qualifier</u>



Analytical Report

Lopez Treatment Plant Treated **230922018-00** **Sample Date:** 10/9/2023 11:06 AM **Sampler:** Egarcia

Analyte	Result	Units	RL	MCL	Method	Analyst	Anal. Date	Qualifier
Bromodichloromethane - Certified	9.5	ug/L			E524.2	CLSB	10/22/2023	
Bromoform - Certified	< 1.0	ug/L			E524.2	CLSB	10/22/2023	
Chloroform - Certified	41	ug/L			E524.2	CLSB	10/22/2023	
Dibromochloromethane - Certified	2.0	ug/L			E524.2	CLSB	10/22/2023	
Total Trihalomethanes (TTHMs)	52	ug/L	1	80	E524.2	CLSB	10/22/2023	

Delivered Water **230922018-01** **Sample Date:** 10/9/2023 11:09 AM **Sampler:** Egarcia

Analyte	Result	Units	RL	MCL	Method	Analyst	Anal. Date	Qualifier
Bromodichloromethane - Certified	12	ug/L			E524.2	CLSB	10/22/2023	
Bromoform - Certified	< 1.0	ug/L			E524.2	CLSB	10/22/2023	
Chloroform - Certified	42	ug/L			E524.2	CLSB	10/22/2023	
Dibromochloromethane - Certified	3.4	ug/L			E524.2	CLSB	10/22/2023	
Total Trihalomethanes (TTHMs)	57	ug/L	1	80	E524.2	CLSB	10/22/2023	

Delivered Water **230923013-00** **Sample Date:** 10/10/2023 11:13 AM **Sampler:** Jgarcia

Analyte	Result	Units	RL	MCL	Method	Analyst	Anal. Date	Qualifier
Chlorine Dioxide Residual by Amperometric Titr	< 0.02	mg/L	0.1	0.8	SCLO2E	BMclean	10/10/2023	
Chlorite by Amperometric Tiration	0.77	mg/L	0.1	1	SCLO2E	BMclean	10/10/2023	
On-line Chlorite Analyzer Reading	0.68	mg/L			None	BMclean	10/10/2023	

Sludge **230928004-00** **Sample Date:** 10/10/2023 1:30 PM **Sampler:** DRuedas

Analyte	Result	Units	RL	MCL	Method	Analyst	Anal. Date	Qualifier
Moisture Content	48	%			Gravimetric	EGarcia	10/17/2023	

Delivered Water **230924010-00** **Sample Date:** 10/11/2023 11:15 AM **Sampler:** Brobinson

Analyte	Result	Units	RL	MCL	Method	Analyst	Anal. Date	Qualifier
Chlorine Dioxide Residual by Amperometric Titr	< 0.02	mg/L	0.1	0.8	SCLO2E	BRobinson	10/11/2023	
Chlorite by Amperometric Tiration	0.70	mg/L	0.1	1	SCLO2E	BRobinson	10/11/2023	
On-line Chlorite Analyzer Reading	0.68	mg/L			None	BRobinson	10/11/2023	

Delivered Water **230925005-00** **Sample Date:** 10/12/2023 10:41 AM **Sampler:** Brobinson

Analyte	Result	Units	RL	MCL	Method	Analyst	Anal. Date	Qualifier
Chlorine Dioxide Residual by Amperometric Titr	< 0.02	mg/L	0.1	0.8	SCLO2E	BRobinson	10/12/2023	
Chlorite by Amperometric Tiration	0.80	mg/L	0.1	1	SCLO2E	BRobinson	10/12/2023	
On-line Chlorite Analyzer Reading	0.72	mg/L			None	BRobinson	10/12/2023	

Delivered Water **230927004-00** **Sample Date:** 10/13/2023 11:11 AM **Sampler:** Brobinson

Analyte	Result	Units	RL	MCL	Method	Analyst	Anal. Date	Qualifier
Chlorine Dioxide Residual by Amperometric Titr	< 0.02	mg/L	0.1	0.8	SCLO2E	BRobinson	10/13/2023	
Chlorite by Amperometric Tiration	0.66	mg/L	0.1	1	SCLO2E	BRobinson	10/13/2023	
On-line Chlorite Analyzer Reading	0.72	mg/L			None	BRobinson	10/13/2023	

Delivered Water **230927003-00** **Sample Date:** 10/14/2023 9:10 AM **Sampler:** JCaldera

Analyte	Result	Units	RL	MCL	Method	Analyst	Anal. Date	Qualifier
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Analytical Report

Delivered Water		230927003-00	Sample Date:	10/14/2023 9:10 AM	Sampler: JCaldera			
Analyte	Result	Units	RL	MCL	Method	Analyst	Anal. Date	Qualifier
Chlorine Dioxide Residual by Amperometric Titr	< 0.02	mg/L	0.1	0.8	SCLO2E	JCaldera	10/14/2023	
Chlorite by Amperometric Tiration	0.77	mg/L	0.1	1	SCLO2E	JCaldera	10/14/2023	
On-line Chlorite Analyzer Reading	0.73	mg/L			None	JCaldera	10/14/2023	
Delivered Water		230928003-00	Sample Date:	10/15/2023 9:25 AM	Sampler: JCaldera			
Analyte	Result	Units	RL	MCL	Method	Analyst	Anal. Date	Qualifier
Chlorine Dioxide Residual by Amperometric Titr	< 0.02	mg/L	0.1	0.8	SCLO2E	JCaldera	10/15/2023	
Chlorite by Amperometric Tiration	0.79	mg/L	0.1	1	SCLO2E	JCaldera	10/15/2023	
On-line Chlorite Analyzer Reading	0.73	mg/L			None	JCaldera	10/15/2023	
Delivered Water		230929011-00	Sample Date:	10/16/2023 9:08 AM	Sampler: DKoury			
Analyte	Result	Units	RL	MCL	Method	Analyst	Anal. Date	Qualifier
Chlorine Dioxide Residual by Amperometric Titr	< 0.02	mg/L	0.1	0.8	SCLO2E	DKoury	10/16/2023	
Chlorite by Amperometric Tiration	0.70	mg/L	0.1	1	SCLO2E	DKoury	10/16/2023	
On-line Chlorite Analyzer Reading	0.72	mg/L			None	DKoury	10/16/2023	
Lopez Treatment Plant Treated		230929012-00	Sample Date:	10/16/2023 9:50 AM	Sampler: DKoury			
Analyte	Result	Units	RL	MCL	Method	Analyst	Anal. Date	Qualifier
Chlorine Dioxide Residual by Amperometric Titr	0.17	mg/L	0.1	0.8	SCLO2E	DKoury	10/16/2023	
Chlorite by Amperometric Tiration	0.78	mg/L	0.1	1	SCLO2E	DKoury	10/16/2023	
On-line Chlorite Analyzer Reading	0.78	mg/L			None	DKoury	10/16/2023	
Lopez Treatment Plant Raw		230929013-00	Sample Date:	10/16/2023 9:15 AM	Sampler: MDAndrews			
Analyte	Result	Units	RL	MCL	Method	Analyst	Anal. Date	Qualifier
Iron	< 10	ug/L			E200.8	EEA	10/26/2023	
Manganese	19.0	ug/L			E200.8	EEA	10/25/2023	
Lopez Treatment Plant Treated		230929013-01	Sample Date:	10/16/2023 9:15 AM	Sampler: MDAndrews			
Analyte	Result	Units	RL	MCL	Method	Analyst	Anal. Date	Qualifier
Iron	< 10	ug/L			E200.8	EEA	10/30/2023	
Manganese	< 2.0	ug/L			E200.8	EEA	10/23/2023	
Delivered Water		230929014-00	Sample Date:	10/16/2023 9:13 AM	Sampler: MDAndrews			
Analyte	Result	Units	RL	MCL	Method	Analyst	Anal. Date	Qualifier
E. coli Presence/Absence	Absent	Present/Absent		0.9	S9223B	MDAndrews	10/17/2023	
Heterotrophic Plate Count	1	CFU/mL	1	500	S9215B	MDAndrews	10/18/2023	
Odor Type @ 60°C (A/B/C/D/E/G/M/V)	E	Odor Type			S2150B	VVogel	10/16/2023	
Temperature	20.3	°C			S2550B	MDAndrews	10/16/2023	
Threshold Odor @ 60°C	2.0	TON	1	3	S2150B	VVogel	10/16/2023	
Total Chlorine Residual (measured in the field)	2.66	mg/L	0.1	4	SCL-G	MDAndrews	10/16/2023	
Total Coliform Presence/Absence	Absent	Present/Absent		0.9	S9223B	MDAndrews	10/17/2023	
Turbidity (measured in field)	0.12	NTU	0.03		S2130B	MDAndrews	10/16/2023	
Domestic Tank		230929014-01	Sample Date:	10/16/2023 9:35 AM	Sampler: MDAndrews			
Analyte	Result	Units	RL	MCL	Method	Analyst	Anal. Date	Qualifier



Analytical Report

Delivered Water **230930008-00** **Sample Date:** 10/17/2023 8:59 AM **Sampler:** DKoury

Analyte	Result	Units	RL	MCL	Method	Analyst	Anal. Date	Qualifier
Chlorine Dioxide Residual by Amperometric Titr	< 0.10	mg/L	0.1	0.8	SCLO2E	DKoury	10/17/2023	
Chlorite by Amperometric Tiration	0.68	mg/L	0.1	1	SCLO2E	DKoury	10/17/2023	
On-line Chlorite Analyzer Reading	0.67	mg/L			None	DKoury	10/17/2023	

Delivered Water **231001005-00** **Sample Date:** 10/18/2023 8:40 AM **Sampler:** DKoury

Analyte	Result	Units	RL	MCL	Method	Analyst	Anal. Date	Qualifier
Chlorine Dioxide Residual by Amperometric Titr	< 0.02	mg/L	0.1	0.8	SCLO2E	DKoury	10/18/2023	
Chlorite by Amperometric Tiration	0.72	mg/L	0.1	1	SCLO2E	DKoury	10/18/2023	
On-line Chlorite Analyzer Reading	0.68	mg/L			None	DKoury	10/18/2023	

Delivered Water **231002005-00** **Sample Date:** 10/19/2023 9:30 AM **Sampler:** DKoury

Analyte	Result	Units	RL	MCL	Method	Analyst	Anal. Date	Qualifier
Chlorine Dioxide Residual by Amperometric Titr	< 0.02	mg/L	0.1	0.8	SCLO2E	DKoury	10/19/2023	
Chlorite by Amperometric Tiration	0.60	mg/L	0.1	1	SCLO2E	DKoury	10/19/2023	
On-line Chlorite Analyzer Reading	0.65	mg/L			None	DKoury	10/19/2023	

Delivered Water **231003003-00** **Sample Date:** 10/20/2023 9:45 AM **Sampler:** DKoury

Analyte	Result	Units	RL	MCL	Method	Analyst	Anal. Date	Qualifier
Chlorine Dioxide Residual by Amperometric Titr	< 0.02	mg/L	0.1	0.8	SCLO2E	DKoury	10/20/2023	
Chlorite by Amperometric Tiration	0.72	mg/L	0.1	1	SCLO2E	DKoury	10/20/2023	
On-line Chlorite Analyzer Reading	0.65	mg/L			None	DKoury	10/20/2023	

Delivered Water **231004003-00** **Sample Date:** 10/21/2023 9:30 AM **Sampler:** DKoury

Analyte	Result	Units	RL	MCL	Method	Analyst	Anal. Date	Qualifier
Chlorine Dioxide Residual by Amperometric Titr	< 0.02	mg/L	0.1	0.8	SCLO2E	DKoury	10/21/2023	
Chlorite by Amperometric Tiration	0.64	mg/L	0.1	1	SCLO2E	DKoury	10/21/2023	
On-line Chlorite Analyzer Reading	0.65	mg/L			None	DKoury	10/21/2023	

Delivered Water **231005003-00** **Sample Date:** 10/22/2023 9:20 AM **Sampler:** DKoury

Analyte	Result	Units	RL	MCL	Method	Analyst	Anal. Date	Qualifier
Chlorine Dioxide Residual by Amperometric Titr	< 0.02	mg/L	0.1	0.8	SCLO2E	DKoury	10/22/2023	
Chlorite by Amperometric Tiration	0.67	mg/L	0.1	1	SCLO2E	DKoury	10/22/2023	
On-line Chlorite Analyzer Reading	0.62	mg/L			None	DKoury	10/22/2023	

WTP Discharge to Creek (E1) **230922016-00** **Sample Date:** 10/23/2023 10:24 AM **Sampler:** Vvogel

Analyte	Result	Units	RL	MCL	Method	Analyst	Anal. Date	Qualifier
Field Inspection	Complete	N/A			None	VVogel	10/23/2023	
Flow	12000	gpd			Calculation	VVogel	10/23/2023	
pH (measured in field)	8.02	SU			SH-B	VVogel	10/23/2023	

Upstream of Discharge to Creek (RU1) **230922016-01** **Sample Date:** 10/23/2023 8:55 AM **Sampler:** Vvogel

Analyte	Result	Units	RL	MCL	Method	Analyst	Anal. Date	Qualifier
Field Inspection	Complete	N/A			None	VVogel	10/23/2023	

Downstream of Discharge to Creek (RD-1) **230922016-02** **Sample Date:** 10/23/2023 8:30 AM **Sampler:** Vvogel

Analyte	Result	Units	RL	MCL	Method	Analyst	Anal. Date	Qualifier
Field Inspection	Complete	N/A			None	VVogel	10/23/2023	



Department of Public Works
Water Quality Laboratory

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LOPEZ PROJECT

Analytical Report

Delivered Water 231006010-00 Sample Date: 10/23/2023 10:03 AM Sampler: Jgarcia

Table with 8 columns: Analyte, Result, Units, RL, MCL, Method, Analyst, Anal. Date, Qualifier. Rows include Chlorine Dioxide Residual, Chlorite, and On-line Chlorite Analyzer Reading.

Lopez Treatment Plant Treated 231006011-00 Sample Date: 10/23/2023 11:00 AM Sampler: DKoury

Table with 8 columns: Analyte, Result, Units, RL, MCL, Method, Analyst, Anal. Date, Qualifier. Rows include Chlorine Dioxide Residual, Chlorite, and On-line Chlorite Analyzer Reading.

Delivered Water 231006012-00 Sample Date: 10/23/2023 9:14 AM Sampler: Vvogel

Table with 8 columns: Analyte, Result, Units, RL, MCL, Method, Analyst, Anal. Date, Qualifier. Rows include E. coli, Heterotrophic Plate Count, Odor Type, Temperature, Threshold Odor, Total Chlorine Residual, Total Coliform, and Turbidity.

Domestic Tank 231006012-01 Sample Date: 10/23/2023 9:50 AM Sampler: Vvogel

Table with 8 columns: Analyte, Result, Units, RL, MCL, Method, Analyst, Anal. Date, Qualifier. Rows include E. coli, Heterotrophic Plate Count, Temperature, Total Chlorine Residual, and Total Coliform.

Lopez Treatment Plant Raw 231006012-02 Sample Date: 10/23/2023 9:08 AM Sampler: Vvogel

Table with 8 columns: Analyte, Result, Units, RL, MCL, Method, Analyst, Anal. Date, Qualifier. (No data rows are visible in this section).



Analytical Report

Delivered Water 231009005-00 Sample Date: 10/26/2023 10:30 AM Sampler: DMann

Analyte	Result	Units	RL	MCL	Method	Analyst	Anal. Date	Qualifier
Chlorine Dioxide Residual by Amperometric Titr	< 0.02	mg/L	0.1	0.8	SCLO2E	DMann	10/26/2023	
Chlorite by Amperometric Tiration	0.48	mg/L	0.1	1	SCLO2E	DMann	10/26/2023	
On-line Chlorite Analyzer Reading	0.45	mg/L			None	DMann	10/26/2023	

Delivered Water 231010003-00 Sample Date: 10/27/2023 10:26 AM Sampler: Jgarcia

Analyte	Result	Units	RL	MCL	Method	Analyst	Anal. Date	Qualifier
Chlorine Dioxide Residual by Amperometric Titr	< 0.02	mg/L	0.1	0.8	SCLO2E	JGarcia	10/27/2023	
Chlorite by Amperometric Tiration	0.42	mg/L	0.1	1	SCLO2E	JGarcia	10/27/2023	
On-line Chlorite Analyzer Reading	0.42	mg/L			None	JGarcia	10/27/2023	

Delivered Water 231011003-00 Sample Date: 10/28/2023 9:33 AM Sampler: Phillips

Analyte	Result	Units	RL	MCL	Method	Analyst	Anal. Date	Qualifier
Chlorine Dioxide Residual by Amperometric Titr	0.12	mg/L	0.1	0.8	SCLO2E	JPhillips	10/28/2023	
Chlorite by Amperometric Tiration	0.48	mg/L	0.1	1	SCLO2E	JPhillips	10/28/2023	
On-line Chlorite Analyzer Reading	0.46	mg/L			None	JPhillips	10/28/2023	

Delivered Water 231012003-00 Sample Date: 10/29/2023 9:17 AM Sampler: Phillips

Analyte	Result	Units	RL	MCL	Method	Analyst	Anal. Date	Qualifier
Chlorine Dioxide Residual by Amperometric Titr	< 0.02	mg/L	0.1	0.8	SCLO2E	JPhillips	10/29/2023	
Chlorite by Amperometric Tiration	0.52	mg/L	0.1	1	SCLO2E	JPhillips	10/29/2023	
On-line Chlorite Analyzer Reading	0.49	mg/L			None	JPhillips	10/29/2023	

FOOTNOTES

NA = not analyzed

ND = not detected above reporting limit

RL - Reporting Limit

MCL = Maximum Contaminant Level

Odor Type Legend (Common): A - Aromatic (camphor, cloves, lavender, lemon, cucumber); B - Balsamic (fragrant - geranium, violets, vanilla); C - Chemical; Cc - free chlorine; Ch - Hydrocarbon, Cm - Medicinal; Cs - Sulfuretted; D - Disagreeable; Df - Fishy; Dp - Pigpen; Ds - Septic; E - Earthy; G - Grassy; M - Musty; Mm - Moldy; V - Vegetable

Data Qualifier	Translation
B	Blank contamination; Analyte detected above the method reporting limit in an associated blank
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
J1	Reported value is estimated; Surrogate recoveries limits were exceeded
J2	Reported value is estimated; No known QC criteria for this component
J3	Reported value is estimated; The value failed to meet QC criteria for either precision or accuracy
J4	Reported value is estimated; The sample matrix interfered with the analysis
K	Off-scale low. Actual value is known to be less than the value given
L	Off-scale high. Actual value is known to be greater than value given
Q	Sample held beyond the accepted holding time
R	Data required additional review before reporting
T	Value reported is less than the laboratory method detection limit
U	Compound was analyzed for but not detected
V	Analyte was detected in both the sample and the associated method blank
Z	Too Numerous to count (TNTC)