



CRL Environmental Corporation

07 February 2022

Guimba Water District

Danzalan St. cor Faigal St., Guimba, Nueva Ecija
Contact No.: 044-6111207

ATTN: **Mr. Rommel G. Gragasín**

Project Name: Not Supplied
Lab. Nos.: P00121689-01/10

Enclosed are the results for samples received by CRL Environmental Corporation and tested for the parameters in the enclosed chain of custody.

Our DENR Recognition Certificate with C. R. No. 023/2021, will expire on August 25, 2024.

Likewise, our DOH Accreditation with Accreditation No. 03-001-20-LW-2, is valid from January 01, 2020 until December 31, 2022.

Please note that any unused portion of the sample/s will be discarded 15 days after the date of this report, unless you have requested otherwise.

Thank you for the opportunity to service the needs of your company. Please feel free to call us at (045) 599-3943 or (02) 552-5100 if we can be of further service to you.

Very truly yours,


MARIA CARMELA Q. CAPULE, Ph.D.
Chief Operating Officer

Results of Analyses

Guimba Water District

Danzalan St. cor Faigal St., Guimba, Nueva Ecija
Contact No.: 044-6111207

SN: F00091094.001



Date Received:

01/25/2022

Lab No.: P00121689



Project Name: Not Supplied

Attention: Mr. Rommel G. Gragasini

Test Description	Results	Units	REG LIMIT	Test Methods	Date Analyzed	By	Ref
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Sample No.: P00121689-01

Date Sampled: 01-25-22 13:45

Sample ID: STA. VERONICA P.S.

Matrix: Groundwater

-Metals-							
Arsenic	< 0.005	mg/L	0.01	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	1123
Cadmium	< 0.001	mg/L	0.003	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	1123
Lead	< 0.005	mg/L	0.01	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	1123
-Wet Chemistry-							
pH, Laboratory @ 25.0°C	8.2	-	6.5 - 8.5	Electrometric Method (SM 4500-H+ B)	01/26/22	MCAT	1123
Color	3	Apparent CU	10	Visual Comparison	01/26/22	MPT	1123
Turbidity	0.65	NTU	5	Nephelometry (Turbidimeter)	01/26/22	ATDR	1123
Total Dissolved Solids	274	mg/L	600	Gravimetry (SM2540 C)	01/26/22	ATDR	1123
Chlorine, Residual	< 0.02	mg/L	0.3 - 1.5	Colorimetry - DPD	01/25/22	ATDR	1123
Nitrate	< 0.006	mg/L	50	Cadmium Reduction Method - By Difference	01/26/22	MLJ	1123

>>> end of result set for Sample No.:P00121689-01 <<<

Sample No.: P00121689-02

Date Sampled: 01-25-22 12:06

Sample ID: SAN ROQUE P.S.

Matrix: Groundwater

-Metals-							
Arsenic	< 0.005	mg/L	0.01	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	1123
Cadmium	< 0.001	mg/L	0.003	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	1123
Lead	< 0.005	mg/L	0.01	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	1123
-Wet Chemistry-							
pH, Laboratory @ 25.0°C	7.7	-	6.5 - 8.5	Electrometric Method (SM 4500-H+ B)	01/26/22	MCAT	1123
Color	3	Apparent CU	10	Visual Comparison	01/26/22	MPT	1123
Turbidity	0.55	NTU	5	Nephelometry (Turbidimeter)	01/26/22	ATDR	1123
Total Dissolved Solids	292	mg/L	600	Gravimetry (SM2540 C)	01/26/22	ATDR	1123
Chlorine, Residual	< 0.02	mg/L	0.3 - 1.5	Colorimetry - DPD	01/25/22	ATDR	1123
Nitrate	< 0.006	mg/L	50	Cadmium Reduction Method - By Difference	01/26/22	MLJ	1123

>>> end of result set for Sample No.:P00121689-02 <<<

Sample No.: P00121689-03

Date Sampled: 01-25-22 12:38

Sample ID: BANTUG P.S.

Matrix: Groundwater

-Metals-							
Arsenic	< 0.005	mg/L	0.01	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	1123
Cadmium	< 0.001	mg/L	0.003	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	1123
Lead	< 0.005	mg/L	0.01	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	1123
-Wet Chemistry-							
pH, Laboratory @ 25.0°C	7.9	-	6.5 - 8.5	Electrometric Method (SM 4500-H+ B)	01/26/22	MCAT	1123
Color	3	Apparent CU	10	Visual Comparison	01/26/22	MPT	1123
Turbidity	0.65	NTU	5	Nephelometry (Turbidimeter)	01/26/22	ATDR	1123
Total Dissolved Solids	288	mg/L	600	Gravimetry (SM2540 C)	01/26/22	ATDR	1123
Chlorine, Residual	< 0.02	mg/L	0.3 - 1.5	Colorimetry - DPD	01/25/22	ATDR	1123
Nitrate	< 0.006	mg/L	50	Cadmium Reduction Method - By Difference	01/26/22	MLJ	1123

>>> end of result set for Sample No.:P00121689-03 <<<

Sample No.: P00121689-04

Date Sampled: 01-25-22 12:20

Sample ID: MATURANOC P.S.

Matrix: Groundwater

-Metals-							
Arsenic	< 0.005	mg/L	0.01	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	1123
Cadmium	< 0.001	mg/L	0.003	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	1123



Test Description	Results	Units	REG LIMIT	Test Methods	Date Analyzed	By	Ref
-Metals-							
Lead	< 0.005	mg/L	0.01	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	1123
-Wet Chemistry-							
pH, Laboratory @ 25.0°C	7.9	-	6.5 - 8.5	Electrometric Method (SM 4500-H+ B)	01/26/22	MCAT	1123
Color	3	Apparent CU	10	Visual Comparison	01/26/22	MPT	1123
Turbidity	0.45	NTU	5	Nephelometry (Turbidimeter)	01/26/22	ATDR	1123
Total Dissolved Solids	247	mg/L	600	Gravimetry (SM2540 C)	01/26/22	ATDR	1123
Chlorine, Residual	< 0.02	mg/L	0.3 - 1.5	Colorimetry - DPD	01/25/22	ATDR	1123
Nitrate	< 0.006	mg/L	50	Cadmium Reduction Method - By Difference	01/26/22	MLJ	1123

>>> end of result set for Sample No.:P00121689-04 <<<

Sample No.: P00121689-05

DateSampled: 01-25-22 13:23

Sample ID: SAN ANDRES P.S.

Matrix: Groundwater

-Metals-							
Arsenic	< 0.005	mg/L	0.01	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	1123
Cadmium	< 0.001	mg/L	0.003	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	1123
Lead	< 0.005	mg/L	0.01	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	1123
-Wet Chemistry-							
pH, Laboratory @ 25.0°C	8.2	-	6.5 - 8.5	Electrometric Method (SM 4500-H+ B)	01/26/22	MCAT	1123
Color	5	Apparent CU	10	Visual Comparison	01/26/22	MPT	1123
Turbidity	0.65	NTU	5	Nephelometry (Turbidimeter)	01/26/22	ATDR	1123
Total Dissolved Solids	247	mg/L	600	Gravimetry (SM2540 C)	01/26/22	ATDR	1123
Chlorine, Residual	< 0.02	mg/L	0.3 - 1.5	Colorimetry - DPD	01/25/22	ATDR	1123
Nitrate	< 0.006	mg/L	50	Cadmium Reduction Method - By Difference	01/26/22	MLJ	1123

>>> end of result set for Sample No.:P00121689-05 <<<

Sample No.: P00121689-06

DateSampled: 01-25-22 13:58

Sample ID: BACAYAO P.S.

Matrix: Groundwater

-Metals-							
Arsenic	< 0.005	mg/L	0.01	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	1123
Cadmium	< 0.001	mg/L	0.003	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	1123
Lead	< 0.005	mg/L	0.01	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	1123
-Wet Chemistry-							
pH, Laboratory @ 25.0°C	8.0	-	6.5 - 8.5	Electrometric Method (SM 4500-H+ B)	01/26/22	MCAT	1123
Color	3	Apparent CU	10	Visual Comparison	01/26/22	MPT	1123
Turbidity	0.50	NTU	5	Nephelometry (Turbidimeter)	01/26/22	ATDR	1123
Total Dissolved Solids	307	mg/L	600	Gravimetry (SM2540 C)	01/26/22	ATDR	1123
Chlorine, Residual	< 0.02	mg/L	0.3 - 1.5	Colorimetry - DPD	01/25/22	ATDR	1123
Nitrate	< 0.006	mg/L	50	Cadmium Reduction Method - By Difference	01/26/22	MLJ	1123

>>> end of result set for Sample No.:P00121689-06 <<<

Sample No.: P00121689-07

DateSampled: 01-25-22 14:15

Sample ID: SAN RAFAEL P.S.

Matrix: Groundwater

-Metals-							
Arsenic	< 0.005	mg/L	0.01	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	1123
Cadmium	< 0.001	mg/L	0.003	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	1123
Lead	< 0.005	mg/L	0.01	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	1123
-Wet Chemistry-							
pH, Laboratory @ 25.0°C	8.0	-	6.5 - 8.5	Electrometric Method (SM 4500-H+ B)	01/26/22	MCAT	1123
Color	3	Apparent CU	10	Visual Comparison	01/26/22	MPT	1123
Turbidity	0.55	NTU	5	Nephelometry (Turbidimeter)	01/26/22	ATDR	1123
Total Dissolved Solids	328	mg/L	600	Gravimetry (SM2540 C)	01/26/22	ATDR	1123
Chlorine, Residual	< 0.02	mg/L	0.3 - 1.5	Colorimetry - DPD	01/25/22	ATDR	1123
Nitrate	< 0.006	mg/L	50	Cadmium Reduction Method - By Difference	01/26/22	MLJ	1123

>>> end of result set for Sample No.:P00121689-07 <<<

Sample No.: P00121689-08

DateSampled: 01-25-22 12:54

Sample ID: TAMPAC 2 - 3 P.S.

Matrix: Groundwater

-Metals-							
Arsenic	< 0.005	mg/L	0.01	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	1123
Cadmium	< 0.001	mg/L	0.003	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	1123
Lead	< 0.005	mg/L	0.01	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	1123



Test Description	Results	Units	REG LIMIT	Test Methods	Date Analyzed	By	Ref
-Wet Chemistry-							
pH, Laboratory @ 25.0°C	7.9	-	6.5 - 8.5	Electrometric Method (SM 4500-H+ B)	01/26/22	MCAT	1123
Color	3	Apparent CU	10	Visual Comparison	01/26/22	MPT	1123
Turbidity	0.60	NTU	5	Nephelometry (Turbidimeter)	01/26/22	ATDR	1123
Total Dissolved Solids	243	mg/L	600	Gravimetry (SM2540 C)	01/26/22	ATDR	1123
Chlorine, Residual	0.02	mg/L	0.3 - 1.5	Colorimetry - DPD	01/25/22	ATDR	1123
Nitrate	< 0.006	mg/L	50	Cadmium Reduction Method - By Difference	01/26/22	MLJ	1123

>>> end of result set for Sample No.:P00121689-08 <<<

Sample No.: P00121689-09

DateSampled: 01-25-22 13:40

Sample ID: RUFINA HOMES V P.S.

Matrix: Groundwater

-Metals-							
Arsenic	< 0.005	mg/L	0.01	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	1123
Cadmium	< 0.001	mg/L	0.003	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	1123
Lead	< 0.005	mg/L	0.01	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	1123

-Wet Chemistry-							
pH, Laboratory @ 25.0°C	7.9	-	6.5 - 8.5	Electrometric Method (SM 4500-H+ B)	01/26/22	MCAT	1123
Color	5	Apparent CU	10	Visual Comparison	01/26/22	MPT	1123
Turbidity	0.80	NTU	5	Nephelometry (Turbidimeter)	01/26/22	ATDR	1123
Total Dissolved Solids	310	mg/L	600	Gravimetry (SM2540 C)	01/26/22	ATDR	1123
Chlorine, Residual	0.1	mg/L	0.3 - 1.5	Colorimetry - DPD	01/25/22	ATDR	1123
Nitrate	< 0.006	mg/L	50	Cadmium Reduction Method - By Difference	01/26/22	MLJ	1123

>>> end of result set for Sample No.:P00121689-09 <<<

Sample No.: P00121689-10

DateSampled: 01-25-22 14:05

Sample ID: NARVACAN 1 P.S.

Matrix: Groundwater

-Metals-							
Arsenic	< 0.005	mg/L	0.01	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	1123
Cadmium	< 0.001	mg/L	0.003	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	1123
Lead	< 0.005	mg/L	0.01	ICP - OES (SMEWW 3120B / USEPA 6010B)	01/28/22	MLSA	1123

-Wet Chemistry-							
pH, Laboratory @ 25.0°C	8.2	-	6.5 - 8.5	Electrometric Method (SM 4500-H+ B)	01/26/22	MCAT	1123
Color	5	Apparent CU	10	Visual Comparison	01/26/22	MPT	1123
Turbidity	0.65	NTU	5	Nephelometry (Turbidimeter)	01/26/22	ATDR	1123
Total Dissolved Solids	254	mg/L	600	Gravimetry (SM2540 C)	01/26/22	ATDR	1123
Chlorine, Residual	0.05	mg/L	0.3 - 1.5	Colorimetry - DPD	01/25/22	ATDR	1123
Nitrate	< 0.006	mg/L	50	Cadmium Reduction Method - By Difference	01/26/22	MLJ	1123

>>> end of result set for Sample No.:P00121689-10 <<<

>>> end of result set for Lab No.:P00121689; Total no. of samples analyzed: 10 <<<

Results are reported "as received basis".

ICP - OES = Inductively Coupled Plasma - Optical Emission Spectroscopy

Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition.

Test Methods for Evaluating Solid Wastes, Vol 1A, USEPA, Third Edition

*** Regulatory Limit Reference**

¹¹²³ Philippine National Standards for Drinking Water, 2017



Analyzed by:



Mara Lyka S. Alba

PRC License No.: 1279

Chemical Testing

Date: 02/05/2022



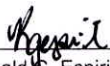
April T. Delos Reyes

PRC License No.: 2641

Chemical Testing

Date: 02/05/2022

Certified by:

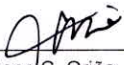


Ronald G. Espiritu

PRC License No.: 9248

Chemical Testing

Date: 02/05/2022



Juliana C. Oriña

PRC License No.: 8774

Chemical Testing

Date: 2/7/22



Chas C. Arroyo

PRC License No.: 6701

Chemical Testing

Date: 02/05/2022



SN: F00091094.001

Disclaimer: This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the customer to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purpose without authorization is prohibited. This analytical report is NOT VALID without the official dry seal of CRL Environmental Corporation.



CHAIN OF CUSTODY RECORD

 CRL Environmental Corporation Bldg. 2, Berthaphil Compound 1, Berthaphil, Inc. Industrial Park Jose Abad Santos Ave., Clark Freeport Zone, Clarkfield, Pampanga, Philippines Tel: (6345) 599-3943 • (6345) 499-6529 • (632) 552-5100 Fax (6345) 599-3963		FOR LABORATORY USE ONLY:											
		Lab. No. <u>PM121689</u>		Method of Transport Walk-in ☒ Courier ☐ UPS ☐ FED. EXP. ☐ CRL ☐		Sample Condition Upon Receipt 1. CHILLED Y ☒ N ☐ 4. SEALED Y ☐ N ☐ 2. HEADSPACE (VOA) Y ☐ N ☒ 5. # OF SPLS MATCH COC Y ☒ N ☐ 3. CONTAINER INTACT Y ☒ N ☐ 6. PRESERVED Y ☒ N ☐							
Customer: <u>GUIMBA WATER DISTRICT</u> Attn: _____		Address: <u>COR. FAIGAL DANZALAN ST.</u> City: <u>GUIMBA N.E.</u> State: _____ Zip Code: _____				Tel: <u>094 611-1207</u> Fax: () _____							
Project Name: _____		Project #: _____		Sampler: _____ (Printed Name)		Signature: _____							
Relinquished by: (Signature and Printed Name) <u>RAUDERICK A. RAMOS</u>		Date: <u>01-25-22</u> Time: <u>3:28 PM</u>		Received by: (Signature and Printed Name) <u>ROMMEL B. GRAGASIN</u>		Date: <u>01/25/22</u> Time: <u>1:00 PM</u>							
Relinquished by: (Signature and Printed Name)		Date: _____ Time: _____		Received by: (Signature and Printed Name)		Date: _____ Time: _____							
Relinquished by: (Signature and Printed Name)		Date: _____ Time: _____		Received by: (Signature and Printed Name)		Date: _____ Time: _____							
SHIP TO LAB: (SUB CONTRACT) _____ TEST: _____ DATE: _____ CUSTOMER I.D. _____		I hereby authorize CRL to perform the work indicated below: Project Mgr. / Submitter: <u>RAUDERICK RAMOS</u> Date: <u>01/25/22</u> Print Name: _____ Signature: _____		Send Report To: Attn: <u>ROMMEL B. GRAGASIN</u> Co: <u>gwdc0295@yahoo.com</u> Address: _____ City: _____ State: _____ Zip: _____		Special Instructions/Comments: <u>62# 71309 # 44, 135</u> <u>Q# 045</u> <u>4/8</u>							
Unless otherwise requested, all remaining samples will be disposed of 15 days after the release of report		Sample Archive / Disposal: ☐ Laboratory Standard ☐ Others _____ ☐ Return To: _____ *\$10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL		Write Analysis(es) Requested PHYSICAL / CHEMICAL		CIRCLE APPROPRIATE MATRIX SOLID SOIL • SLUDGE OIL • SOLVENT • LIQUID SURFACE WATER GROUND WATER WASTEWATER DRINKING WATER AIR WIFE • FILTER OTHER Container(s) TAT # Type				PRESERVATION REMARKS			
TAT starts 8 a.m. the following day if sample received beyond 12 noon at the laboratory		TAT: A = ☐ Overnight ≤ 24 hrs.		B = ☐ Emergency Next Workday		C = ☐ Critical 2 Workdays		D = ☐ Urgent 3 Workdays		E = ☐ Routine 7 Workdays		Preservatives: H=HCl N=HNO ₃ S=H ₂ SO ₄ C=<6°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃	
		Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar		G=Glass P=Plastic M=Metal									