



NEGROSPRAWN PRODUCERS COOPERATIVE ANALYTICAL & DIAGNOSTIC LABORATORY

Door No.1 & 2., NOLKFI Bldg., 6th Street., Bacolod City
Tele/Fax 034-4332131 email address nppclab@gmail.com

PHYSICO-CHEMICAL ANALYSIS REPORT



PAB ACCREDITED
TESTING LABORATORY
PNS ISO/IEC 17025:2017
LA-2016-289B

Customer: **BAYAWAN WATER DISTRICT**
Address: Bayawan, Negros Oriental
Reference No: 23-60854
Control No: 23-36541
Sample Code: **BRGY. MANDUAO-SOURCE**

Date/Time of Collection: March 02, 2023/1:43 PM
Date/Time Submitted: March 06, 2023/2:30 PM
Date Analyzed: March 06, 2023
Date Reported: March 10, 2023

Tests Performed	Method	Results	Acceptable Values	Remarks
*Color (Apparent Color)	Colorimetric Method (2120 B)	3	410 color units	PASS
*Total Dissolved Solids (mg/L)	TDS Meter	155.4	600 for product that has not undergone reverse osmosis / distillation process <10 for product that undergone reverse osmosis/distillation process	PASS
Electrical Conductivity (µS/cm)	EC Meter (2510 B)	518		PASS
Turbidity	In-House Laboratory Method (Turbidimetry)	0.85	5 NTU	PASS
pH	Electrometric Method 4500-H ⁺ B	7.27	6.5-8.5 5-7 for product water that undergone reverse osmosis/distillation process	PASS
Chloride (mg/L)	Argentometric Method 4500-Cl B	6	250 mg/L	PASS
*Residual Chlorine(mg/L)	Colorimetric Method	-		-
Total Hardness (mg/L)	Titrimetric Method (2340 C)	138.14	300 mg/L as CaCO ₃	PASS
*Calcium Hardness (mg/L)		80.08		-
*Magnesium Hardness(mg/L)		58.06		-
*Iron (mg/L)	Phenanthroline Method 3500 - Fe B	Nil	1.0 mg/L	PASS
*Nitrate (mg/L)	Spectrophotometric Method	Nil	50 mg/L	PASS
*Nitrite (mg/L)	Diazotization Method	0.05	3 mg/L	PASS
*Sulfates (mg/L)	Turbidimetric Method 4500 - SO ₄ ²⁻ E	14.31	250 mg/L	PASS
*Odor	Threshold Odor Test (Sensory Evaluation Technique, 2150 B)	No odor detected	No objectionable odor	PASS

References: Standard Methods for the Examination of Water and Wastewater 23rd Edition 2017
Philippine National Standards for Drinking Water 2017 (AO 2017-0010)

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FAIL- results exceed limit

Analyzed by:

JAYRAYNE ERIC G. BARNUEVO
Chemical Technician, License # 3394
Approved Signatory (Chemical Analysis)

Certified Correct:

ROSELYN C. USERO, RCh, MEE
Laboratory Head
Registered Chemist, License # 6460
Approved Signatory (Chemical Analysis)

Test Report #: CHE DW - 14124
Laboratory DOH Accreditation # 01
NPPC-ADL
LSP 7.8 FO3
Rev. 03 / Issue 4
Effectivity Date: 06/21/22



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PHYSICO-CHEMICAL ANALYSIS REPORT



Customer: **BAYAWAN WATER DISTRICT**
Address: Bayawan, Negros Oriental
Reference No: 23-60854
Control No: 23-3654P
Sample Code: **BRGY. DAWIS-TAP**

Date/Time of Collection: March 02, 2023/3:10 PM
Date/Time Submitted: March 06, 2023/2:30 PM
Date Analyzed: March 06, 2023
Date Reported: March 10, 2023

Tests Performed	Method	Results	Acceptable Values	Remarks
*Color (Apparent Color)	Colorimetric Method (2120 B)	3	410 color units	PASS
*Total Dissolved Solids (mg/L)	TDS Meter	141.8	600 for product that has not undergone reverse osmosis / distillation process	PASS
			<10 for product that undergone reverse osmosis/distillation process	
Electrical Conductivity (µS/cm)	EC Meter (2510 B)	472.7		PASS
Turbidity	In-House Laboratory Method (Turbidimetry)	0.95	5 NTU	PASS
pH	Electrometric Method 4500-H ⁺ B	6.99	6.5-8.5	PASS
			5-7 for product water that undergone reverse osmosis/distillation process	
Chloride (mg/L)	Argentometric Method 4500-Cl B	8	250 mg/L	PASS
*Residual Chlorine(mg/L)	Colorimetric Method	-		-
Total Hardness (mg/L)	Titrimetric Method (2340 C)	128.13	300 mg/L as CaCO ₃	PASS
*Calcium Hardness (mg/L)		68.07		-
*Magnesium Hardness(mg/L)		60.06		-
*Iron (mg/L)	Phenanthroline Method 3500 – Fe B	Nil	1.0 mg/L	PASS
*Nitrate (mg/L)	Spectrophotometric Method	Nil	50 mg/L	PASS
*Nitrite (mg/L)	Diazotization Method	Nil	3 mg/L	PASS
*Sulfates (mg/L)	Turbidimetric Method 4500 – SO ₄ ²⁻ E	8.62	250 mg/L	PASS
*Odor	Threshold Odor Test (Sensory Evaluation Technique, 2150 B)	No odor detected	No objectionable odor	PASS

References: **Standard Methods for the Examination of Water and Wastewater 23rd Edition 2017**
Philippine National Standards for Drinking Water 2017 (AO 2017-0010)

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Approved Signatory (Chemical Analysis)

Certified Correct

ROSELYN C. USERO, RCh, MEE
Laboratory Head
Registered Chemist, License # 6460
Approved Signatory (Chemical Analysis)

Test Report #: CHE DW – 14131
Laboratory DOH Accreditation # 01
NPPC-ADL
LSP 7.8 FO3
Rev. 03 / Issue 4
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PHYSICO-CHEMICAL ANALYSIS REPORT

Customer: BAYAWAN WATER DISTRICT
Address: Bayawan, Negros Oriental
Reference No: 23-60854
Control No: 23-36540
Sample Code: **BRGY. DAWIS-SOURCE**

Date/Time of Collection: March 02, 2023/3:15 PM
Date/Time Submitted: March 06, 2023/2:30 PM
Date Analyzed: March 06, 2023
Date Reported: March 10, 2023

Tests Performed	Method	Results	Acceptable Values	Remarks
*Color (Apparent Color)	Colorimetric Method (2120 B)	2	410 color units	PASS
*Total Dissolved Solids (mg/L)	TDS Meter	123.7	600 for product that has not undergone reverse osmosis / distillation process <10 for product that undergone reverse osmosis/distillation process	PASS
Electrical Conductivity (µS/cm)	EC Meter (2510 B)	412.3		PASS
Turbidity	In-House Laboratory Method (Turbidimetry)	0.87	5 NTU	PASS
pH	Electrometric Method 4500-H ⁺ B	6.55	6.5-8.5 5-7 for product water that undergone reverse osmosis/distillation process	PASS
Chloride (mg/L)	Argentometric Method 4500-Cl B	11	250 mg/L	PASS
*Residual Chlorine(mg/L)	Colorimetric Method	-		-
Total Hardness (mg/L)	Titrimetric Method (2340 C)	102.1	300 mg/L as CaCO ₃	PASS
*Calcium Hardness (mg/L)		64.06		-
*Magnesium Hardness(mg/L)		38.04		-
*Iron (mg/L)	Phenanthroline Method 3500 - Fe B	Nil	1.0 mg/L	PASS
*Nitrate (mg/L)	Spectrophotometric Method	Nil	50 mg/L	PASS
*Nitrite (mg/L)	Diazotization Method	Nil	3 mg/L	PASS
*Sulfates (mg/L)	Turbidimetric Method 4500 - SO ₄ ⁻² E	5.32	250 mg/L	PASS
*Odor	Threshold Odor Test (Sensory Evaluation Technique, 2150 B)	No odor detected	No objectionable odor	PASS

References: Standard Methods for the Examination of Water and Wastewater 23rd Edition 2017

Philippine National Standards for Drinking Water 2017 (AO 2017-0010)

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Certified Correct:

ROSELYN C. USERO, RCh, MEE
Laboratory Head
Registered Chemist, License # 6460
Approved Signatory (Chemical Analysis)

Test Report #: CHE DW - 14130
Laboratory DOH Accreditation # 01
NPPC-ADL
LSP 7.8 FO3
Rev. 03 / Issue 4
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PNS ISO/IEC 17025:2017
LA-2016-289B

Customer: **BAYAWAN WATER DISTRICT**
Address: Bayawan, Negros Oriental
Reference No: 23-60854
Control No: 23-3654R
Sample Code: **BRGY. ALI-IS-TAP**

Date/Time of Collection: March 02, 2023/3:25 PM
Date/Time Submitted: March 06, 2023/2:30 PM
Date Analyzed: March 06, 2023
Date Reported: March 10, 2023

Tests Performed	Method	Results	Acceptable Values	Remarks
*Color (Apparent Color)	Colorimetric Method (2120 B)	2	410 color units	PASS
*Total Dissolved Solids (mg/L)	TDS Meter	133.3	600 for product that has not undergone reverse osmosis / distillation process <10 for product that undergone reverse osmosis/distillation process	PASS
Electrical Conductivity (µS/cm)	EC Meter (2510 B)	444.2		PASS
Turbidity	In-House Laboratory Method (Turbidimetry)	0.51	5 NTU	PASS
pH	Electrometric Method 4500-H ⁺ B	6.58	6.5-8.5 5-7 for product water that undergone reverse osmosis/distillation process	PASS
Chloride (mg/L)	Argentometric Method 4500-Cl B	10	250 mg/L	PASS
*Residual Chlorine(mg/L)	Colorimetric Method	-		-
Total Hardness (mg/L)	Titrimetric Method (2340 C)	116.12	300 mg/L as CaCO ₃	PASS
*Calcium Hardness (mg/L)		70.07		-
*Magnesium Hardness(mg/L)		46.05		-
*Iron (mg/L)	Phenanthroline Method 3500 - Fe B	Nil	1.0 mg/L	PASS
*Nitrate (mg/L)	Spectrophotometric Method	Nil	50 mg/L	PASS
*Nitrite (mg/L)	Diazotization Method	Nil	3 mg/L	PASS
*Sulfates (mg/L)	Turbidimetric Method 4500 - SO ₄ ²⁻ E	12.29	250 mg/L	PASS
*Odor	Threshold Odor Test (Sensory Evaluation Technique, 2150 B)	No odor detected	No objectionable odor	PASS

References: Standard Methods for the Examination of Water and Wastewater 23rd Edition 2017
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Approved Signatory (Chemical Analysis)

Certified Contact:

ROSELYN C. USERO, RCh, MEE
Laboratory Head
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Approved Signatory (Chemical Analysis)

Test Report #: CHE DW - 14133
Laboratory DOH Accreditation # 01
NPPC-ADL
LSP 7.8 FO3
Rev. 03 / Issue 4
Effectivity Date: 06/21/22



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PHYSICO-CHEMICAL ANALYSIS REPORT

Customer: **BAYAWAN WATER DISTRICT**
Address: Bayawan, Negros Oriental
Reference No: 23-60854
Control No: 23-3654Q
Sample Code: **BRGY. ALI-IS-SOURCE**

Date/Time of Collection: March 02, 2023/3:20 PM
Date/Time Submitted: March 06, 2023/2:30 PM
Date Analyzed: March 06, 2023
Date Reported: March 10, 2023

Tests Performed	Method	Results	Acceptable Values	Remarks
*Color (Apparent Color)	Colorimetric Method (2120 B)	2	410 color units	PASS
*Total Dissolved Solids (mg/L)	TDS Meter	132.5	600 for product that has not undergone reverse osmosis / distillation process	PASS
			<10 for product that undergone reverse osmosis/distillation process	
Electrical Conductivity (µS/cm)	EC Meter (2510 B)	441.7		PASS
Turbidity	In-House Laboratory Method (Turbidimetry)	0.52	5 NTU	PASS
pH	Electrometric Method 4500-H ⁺ B	6.76	6.5-8.5	PASS
			5-7 for product water that undergone reverse osmosis/distillation process	
Chloride (mg/L)	Argentometric Method 4500-Cl B	10	250 mg/L	PASS
*Residual Chlorine(mg/L)	Colorimetric Method	-		-
Total Hardness (mg/L)	Titrimetric Method (2340 C)	118.12	300 mg/L as CaCO ₃	PASS
*Calcium Hardness (mg/L)		74.07		-
*Magnesium Hardness(mg/L)		44.04		-
*Iron (mg/L)	Phenanthroline Method 3500 - Fe B	Nil	1.0 mg/L	PASS
*Nitrate (mg/L)	Spectrophotometric Method	Nil	50 mg/L	PASS
*Nitrite (mg/L)	Diazotization Method	Nil	3 mg/L	PASS
*Sulfates (mg/L)	Turbidimetric Method 4500 - SO ₄ ²⁻ E	12.2	250 mg/L	PASS
*Odor	Threshold Odor Test (Sensory Evaluation Technique, 2150 B)	No odor detected	No objectionable odor	PASS

References: **Standard Methods for the Examination of Water and Wastewater 23rd Edition 2017**
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Certified Correct:

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Laboratory Head
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Approved Signatory (Chemical Analysis)

Test Report #: CHE DW - 14132
Laboratory DOI Accreditation # 01
NPPC-ADL
LSP 7.8 FO3
Rev. 03 / Issue 4
Effectivity Date: 06/21/22



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PHYSICO-CHEMICAL ANALYSIS REPORT



Customer: **BAYAWAN WATER DISTRICT**
Address: Bayawan, Negros Oriental
Reference No: 23-60854
Control No: 23-3654T
Sample Code: **SITIO GAMAQ/NARRA-TAP**

Date/Time of Collection: **March 02, 2023/3:45 PM**
Date/Time Submitted: **March 06, 2023/2:30 PM**
Date Analyzed: **March 06, 2023**
Date Reported: **March 10, 2023**

Tests Performed	Method	Results	Acceptable Values	Remarks
*Color (Apparent Color)	Colorimetric Method (2120 B)	3	410 color units	PASS
*Total Dissolved Solids (mg/L)	TDS Meter	197.7	600 for product that has not undergone reverse osmosis / distillation process	PASS
			<10 for product that undergone reverse osmosis/distillation process	
Electrical Conductivity (µS/cm)	EC Meter (2510 B)	659		PASS
Turbidity	In-House Laboratory Method (Turbidimetry)	0.67	5 NTU	PASS
pH	Electrometric Method 4500-H ⁺ B	7.13	6.5-8.5	PASS
			5-7 for product water that undergone reverse osmosis/distillation process	
Chloride (mg/L)	Argentometric Method 4500-Cl B	11	250 mg/L	PASS
*Residual Chlorine(mg/L)	Colorimetric Method	-		-
Total Hardness (mg/L)	Titrimetric Method (2340 C)	182.18	300 mg/L as CaCO ₃	PASS
*Calcium Hardness (mg/L)		120.12		-
*Magnesium Hardness(mg/L)		62.06		-
*Iron (mg/L)	Phenanthroline Method 3500 – Fe B	Nil	1.0 mg/L	PASS
*Nitrate (mg/L)	Spectrophotometric Method	Nil	50 mg/L	PASS
*Nitrite (mg/L)	Diazotization Method	Nil	3 mg/L	PASS
*Sulfates (mg/L)	Turbidimetric Method 4500 – SO ₄ ²⁻ E	16.42	250 mg/L	PASS
*Odor	Threshold Odor Test (Sensory Evaluation Technique, 2150 B)	No odor detected	No objectionable odor	PASS

References: **Standard Methods for the Examination of Water and Wastewater 23rd Edition 2017**
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Test Report #: **CHE DW – 14135**
Laboratory **DOH Accreditation # 01**
NPPC-ADL
LSP 7.8 FO3
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PHYSICO-CHEMICAL ANALYSIS REPORT



Customer: **BAYAWAN WATER DISTRICT**
Address: Bayawan, Negros Oriental
Reference No: 23-60854
Control No: 23-3654S
Sample Code: **SITIO GAMA0/NARRA-SOURCE**

Date/Time of Collection: **March 02, 2023/3:38 PM**
Date/Time Submitted: **March 06, 2023/2:30 PM**
Date Analyzed: **March 06, 2023**
Date Reported: **March 10, 2023**

Tests Performed	Method	Results	Acceptable Values	Remarks
*Color (Apparent Color)	Colorimetric Method (2120 B)	3	410 color units	PASS
*Total Dissolved Solids (mg/L)	TDS Meter	195.6	600 for product that has not undergone reverse osmosis / distillation process	PASS
			<10 for product that undergone reverse osmosis/distillation process	
Electrical Conductivity (µS/cm)	EC Meter (2510 B)	652		PASS
Turbidity	In-House Laboratory Method (Turbidimetry)	0.94	5 NTU	PASS
pH	Electrometric Method 4500-H ⁺ B	7.09	6.5-8.5	PASS
			5-7 for product water that undergone reverse osmosis/distillation process	
Chloride (mg/L)	Argentometric Method 4500-Cl B	11	250 mg/L	PASS
*Residual Chlorine(mg/L)	Colorimetric Method	-		-
Total Hardness (mg/L)	Titrimetric Method (2340 C)	174.17	300 mg/L as CaCO ₃	PASS
*Calcium Hardness (mg/L)		108.111		-
*Magnesium Hardness(mg/L)		66.07		-
*Iron (mg/L)	Phenanthroline Method 3500 – Fe B	Nil	1.0 mg/L	PASS
*Nitrate (mg/L)	Spectrophotometric Method	Nil	50 mg/L	PASS
*Nitrite (mg/L)	Diazotization Method	Nil	3 mg/L	PASS
*Sulfates (mg/L)	Turbidimetric Method 4500 – SO ₄ ²⁻ E	12.29	250 mg/L	PASS
*Odor	Threshold Odor Test (Sensory Evaluation Technique, 2150 B)	No odor detected	No objectionable odor	PASS

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Customer: **BAYAWAN WATER DISTRICT**
Address: Bayawan, Negros Oriental
Reference No: 23-60854
Control No: 23-3654L
Sample Code: **BRGY. SAN JOSE-TAP**

Date/Time of Collection: **March 02, 2023/2:10 PM**
Date/Time Submitted: **March 06, 2023/2:30 PM**
Date Analyzed: **March 06, 2023**
Date Reported: **March 10, 2023**

Tests Performed	Method	Results	Acceptable Values	Remarks
*Color (Apparent Color)	Colorimetric Method (2120 B)	6	410 color units	PASS
*Total Dissolved Solids (mg/L)	TDS Meter	55.9	600 for product that has not undergone reverse osmosis / distillation process	PASS
			<10 for product that undergone reverse osmosis/distillation process	
Electrical Conductivity (µS/cm)	EC Meter (2510 B)	186.4		PASS
Turbidity	In-House Laboratory Method (Turbidimetry)	4.20	5 NTU	PASS
pH	Electrometric Method 4500-H ⁺ B	7.27	6.5-8.5	PASS
			5-7 for product water that undergone reverse osmosis/distillation process	
Chloride (mg/L)	Argentometric Method 4500-CF B	13	250 mg/L	PASS
*Residual Chlorine(mg/L)	Colorimetric Method	-		-
Total Hardness (mg/L)	Titrimetric Method (2340 C)	48.05	300 mg/L as CaCO ₃	PASS
*Calcium Hardness (mg/L)		30.03		-
*Magnesium Hardness(mg/L)		18.02		-
*Iron (mg/L)	Phenanthroline Method 3500 – Fe B	Nil	1.0 mg/L	PASS
*Nitrate (mg/L)	Spectrophotometric Method	Nil	50 mg/L	PASS
*Nitrite (mg/L)	Diazotization Method	Nil	3 mg/L	PASS
*Sulfates (mg/L)	Turbidimetric Method 4500 – SO ₄ ²⁻ E	8.99	250 mg/L	PASS
*Odor	Threshold Odor Test (Sensory Evaluation Technique. 2150 B)	No odor detected	No objectionable odor	PASS

References: **Standard Methods for the Examination of Water and Wastewater 23rd Edition 2017**
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Laboratory Head
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Approved Signatory (Chemical Analysis)

Test Report #: CHE DW – 14127
Laboratory DOH Accreditation # 01
NPPC-ADL
LSP 7.8 FO3
Rev. 03 / Issue 4
Effectivity Date: 06/21/22



NEGROSPRAWN PRODUCERS COOPERATIVE ANALYTICAL & DIAGNOSTIC LABORATORY

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PHYSICO-CHEMICAL ANALYSIS REPORT



PAB ACCREDITED
TESTING LABORATORY
PNS ISO/IEC 17025:2017
LA-2016-289B

Customer: **BAYAWAN WATER DISTRICT**
Address: Bayawan, Negros Oriental
Reference No: 23-60854
Control No: 23-3654K
Sample Code: **BRGY. SAN JOSE-SOURCE**

Date/Time of Collection: March 02, 2023/2:05 PM
Date/Time Submitted: March 06, 2023/2:30 PM
Date Analyzed: March 06, 2023
Date Reported: March 10, 2023

Tests Performed	Method	Results	Acceptable Values	Remarks
*Color (Apparent Color)	Colorimetric Method (2120 B)	5	410 color units	PASS
*Total Dissolved Solids (mg/L)	TDS Meter	67.8	600 for product that has not undergone reverse osmosis / distillation process <10 for product that undergone reverse osmosis/distillation process	PASS
Electrical Conductivity (µS/cm)	EC Meter (2510 B)	226		PASS
Turbidity	In-House Laboratory Method (Turbidimetry)	4.58	5 NTU	PASS
pH	Electrometric Method 4500-H ⁺ B	7.54	6.5-8.5 5-7 for product water that undergone reverse osmosis/distillation process	PASS
Chloride (mg/L)	Argentometric Method 4500-Cl B	14	250 mg/L	PASS
*Residual Chlorine(mg/L)	Colorimetric Method	-		-
Total Hardness (mg/L)	Titrimetric Method (2340 C)	78.08	300 mg/L as CaCO ₃	PASS
*Calcium Hardness (mg/L)		48.05		-
*Magnesium Hardness(mg/L)		30.03		-
*Iron (mg/L)	Phenanthroline Method 3500 - Fe B	Nil	1.0 mg/L	PASS
*Nitrate (mg/L)	Spectrophotometric Method	Nil	50 mg/L	PASS
*Nitrite (mg/L)	Diazotization Method	Nil	3 mg/L	PASS
*Sulfates (mg/L)	Turbidimetric Method 4500 - SO ₄ ⁻² E	10.37	250 mg/L	PASS
*Odor	Threshold Odor Test (Sensory Evaluation Technique, 2150 B)	No odor detected	No objectionable odor	PASS

References: Standard Methods for the Examination of Water and Wastewater 23rd Edition 2017
Philippine National Standards for Drinking Water 2017 (AO 2017-0010)

- NOTE:
- This report shall not be reproduced, except in full, without the written approval of the Laboratory Head.
 - The results contained in this report relate only to the items received, coded and tested by the laboratory.
 - Measurement uncertainty is available upon request.
 - * Not PAB Accredited
 - Statements of conformity (e.g. Pass/Fail) to specifications are made in this report without taking measurement uncertainty into account except when requested by the customer. Where statements of uncertainty are made in this report, the following rules are applied: PASS- results within limit
FAIL- results exceed limit

Analyzed by:

Certified Correct:

JAYRAYNE ERIC G. BARNUEVO
Chemical Technician, License # 3394
Approved Signatory (Chemical Analysis)

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