



Echem ENVIRONMENTAL TESTING LABORATORY CORPORATION

Laboratory: 10 Quezon Road, San Isidro, San Simon, Pampanga

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DOH Accreditation No.03-014-1820-LW-2 Valid until December 2020

DENR C.R.No. 074/2017 Valid until October 16, 2020

TEST REPORT

Client: **Manila Water Philippine Ventures (MWPV)**

Test Report No.: **TR-20G-148B**

Address: **Level 3 2nd Phase, BPO Bldg., UP Town Corporate Center, 216 Katipunan Ave., Dilliman, Quezon City**

Date and Time Received: **08 Jul 2020 @06:18PM**

Contact Person: **Ms. Florisza I. Faustino**

Sampled By: **EICHEM**

COC Number: **2020-G0068**

Report Date: **16 Jul 2020**

Sample ID: S20-G09-001D		Sampling Date: 08 Jul 2020				
Sample Description: BNC Pawikan		Sampling Time: 10:57 AM				
Sample Matrix: Drinking Water		Sampling Location: Anvaya Cove, Morong, Bataan				
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	0.12	mg/L	1.0	Phenanthroline	14 Jul 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	14 Jul 2020	TPS
Chlorine, Residual	1.24	mg/L	0.30-1.50	Colorimetric	08 Jul 2020	CSF
pH (on-site)	6.54 @30.9°C	---	6.5-8.5	Electrometric	08 Jul 2020	MBS
Total Hardness as CaCO ₃	174	mg/L	300	EDTA Titrimetric	15 Jul 2020	CSF

Sample ID: S20-G09-002D		Sampling Date: 08 Jul 2020				
Sample Description: Deepwell 6		Sampling Time: 12:45 PM				
Sample Matrix: Drinking Water		Sampling Location: Anvaya Cove, Morong, Bataan				
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	0.39	mg/L	1.0	Phenanthroline	14 Jul 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	15 Jul 2020	TPS
pH (on-site)	6.71 @29.9°C	---	6.5-8.5	Electrometric	08 Jul 2020	MBS
Total Hardness as CaCO ₃	134	mg/L	300	EDTA Titrimetric	15 Jul 2020	CSF

Sample ID: S20-G09-003D		Sampling Date: 08 Jul 2020				
Sample Description: Beechcroft		Sampling Time: 12:52 PM				
Sample Matrix: Drinking Water		Sampling Location: Anvaya Cove, Morong, Bataan				
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	0.14	mg/L	1.0	Phenanthroline	14 Jul 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	14 Jul 2020	TPS
Chlorine, Residual	1.21	mg/L	0.30-1.50	Colorimetric	08 Jul 2020	CSF
pH (on-site)	6.66 @29.4°C	---	6.5-8.5	Electrometric	08 Jul 2020	MBS
Total Hardness as CaCO ₃	199	mg/L	300	EDTA Titrimetric	15 Jul 2020	CSF

Sample ID: S20-G09-004D		Sampling Date: 08 Jul 2020				
Sample Description: Deepwell 5		Sampling Time: 01:15 PM				
Sample Matrix: Drinking Water		Sampling Location: Anvaya Cove, Morong, Bataan				
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	0.82	mg/L	1.0	Phenanthroline	14 Jul 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	14 Jul 2020	TPS
pH (on-site)	6.77 @31.0°C	---	6.5-8.5	Electrometric	08 Jul 2020	MBS
Total Hardness as CaCO ₃	191	mg/L	300	EDTA Titrimetric	15 Jul 2020	CSF



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Sample ID:	S20-G09-005D	Sampling Date:	08 Jul 2020
Sample Description:	Sports Center Common Area	Sampling Time:	01:52 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	0.11	mg/L	1.0	Phenanthroline	14 Jul 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	14 Jul 2020	TPS
Chlorine, Residual	1.22	mg/L	0.30-1.50	Colorimetric	08 Jul 2020	CSF
pH (on-site)	6.53 @30.6°C	---	6.5-8.5	Electrometric	08 Jul 2020	MBS
Total Hardness as CaCO ₃	195	mg/L	300	EDTA Titrimetric	15 Jul 2020	CSF

Sample ID:	S20-G09-006D	Sampling Date:	08 Jul 2020
Sample Description:	Sports Center Kitchen	Sampling Time:	01:47 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	0.18	mg/L	1.0	Phenanthroline	14 Jul 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	14 Jul 2020	TPS
Chlorine, Residual	1.15	mg/L	0.30-1.50	Colorimetric	08 Jul 2020	CSF
pH (on-site)	6.57 @30.8°C	---	6.5-8.5	Electrometric	08 Jul 2020	MBS
Total Hardness as CaCO ₃	191	mg/L	300	EDTA Titrimetric	15 Jul 2020	CSF

Sample ID:	S20-G09-007D	Sampling Date:	08 Jul 2020
Sample Description:	Golf Kitchen	Sampling Time:	02:07 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	0.21	mg/L	1.0	Phenanthroline	14 Jul 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	14 Jul 2020	TPS
Chlorine, Residual	0.93	mg/L	0.30-1.50	Colorimetric	08 Jul 2020	CSF
pH (on-site)	7.18 @31.8°C	---	6.5-8.5	Electrometric	08 Jul 2020	MBS
Total Hardness as CaCO ₃	189	mg/L	300	EDTA Titrimetric	15 Jul 2020	CSF

Sample ID:	S20-G09-008D	Sampling Date:	08 Jul 2020
Sample Description:	Caddle	Sampling Time:	02:10 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	0.18	mg/L	1.0	Phenanthroline	14 Jul 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	14 Jul 2020	TPS
Chlorine, Residual	0.6	mg/L	0.30-1.50	Colorimetric	08 Jul 2020	CSF
pH (on-site)	7.34 @30.8°C	---	6.5-8.5	Electrometric	08 Jul 2020	MBS
Total Hardness as CaCO ₃	187	mg/L	300	EDTA Titrimetric	15 Jul 2020	CSF

Sample ID:	S20-G09-009D	Sampling Date:	08 Jul 2020
Sample Description:	Deepwell 8	Sampling Time:	02:17 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	0.12	mg/L	1.0	Phenanthroline	14 Jul 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	14 Jul 2020	TPS
pH (on-site)	6.54 @30.5°C	---	6.5-8.5	Electrometric	08 Jul 2020	MBS
Total Hardness as CaCO ₃	156	mg/L	300	EDTA Titrimetric	15 Jul 2020	CSF



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Sample ID: S20-G09-010D		Sampling Date: 08 Jul 2020				
Sample Description: Deepwell 9		Sampling Time: 02:26 PM				
Sample Matrix: Drinking Water		Sampling Location: Anvaya Cove, Morong, Bataan				
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	0.21	mg/L	1.0	Phenanthroline	14 Jul 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	14 Jul 2020	TPS
pH (on-site)	6.42 @28.9°C	---	6.5-8.5	Electrometric	08 Jul 2020	MBS
Total Hardness as CaCO ₃	132	mg/L	300	EDTA Titrimetric	15 Jul 2020	CSF

Sample ID: S20-G09-011D		Sampling Date: 08 Jul 2020				
Sample Description: N5		Sampling Time: 10:28 AM				
Sample Matrix: Drinking Water		Sampling Location: Anvaya Cove, Morong, Bataan				
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	0.18	mg/L	1.0	Phenanthroline	14 Jul 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	14 Jul 2020	TPS
Chlorine, Residual	0.98	mg/L	0.30-1.50	Colorimetric	08 Jul 2020	CSF
pH (on-site)	7.51 @31.8°C	---	6.5-8.5	Electrometric	08 Jul 2020	MBS
Total Hardness as CaCO ₃	237	mg/L	300	EDTA Titrimetric	15 Jul 2020	CSF

Sample ID: S20-G09-012D		Sampling Date: 08 Jul 2020				
Sample Description: SRCC Boston		Sampling Time: 10:39 AM				
Sample Matrix: Drinking Water		Sampling Location: Anvaya Cove, Morong, Bataan				
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	<0.10	mg/L	1.0	Phenanthroline	14 Jul 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	14 Jul 2020	TPS
Chlorine, Residual	1.08	mg/L	0.30-1.50	Colorimetric	08 Jul 2020	CSF
pH (on-site)	7.32 @30.9°C	---	6.5-8.5	Electrometric	08 Jul 2020	MBS
Total Hardness as CaCO ₃	187	mg/L	300	EDTA Titrimetric	15 Jul 2020	CSF

Sample ID: S20-G09-013D		Sampling Date: 08 Jul 2020				
Sample Description: N4		Sampling Time: 10:48 AM				
Sample Matrix: Drinking Water		Sampling Location: Anvaya Cove, Morong, Bataan				
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	<0.10	mg/L	1.0	Phenanthroline	14 Jul 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	14 Jul 2020	TPS
Chlorine, Residual	0.51	mg/L	0.30-1.50	Colorimetric	08 Jul 2020	CSF
pH (on-site)	7.07 @30.2°C	---	6.5-8.5	Electrometric	08 Jul 2020	MBS
Total Hardness as CaCO ₃	144	mg/L	300	EDTA Titrimetric	15 Jul 2020	CSF

Sample ID: S20-G09-014D		Sampling Date: 08 Jul 2020				
Sample Description: N7		Sampling Time: 10:55 AM				
Sample Matrix: Drinking Water		Sampling Location: Anvaya Cove, Morong, Bataan				
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	<0.10	mg/L	1.0	Phenanthroline	14 Jul 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	15 Jul 2020	TPS
Chlorine, Residual	1.48	mg/L	0.30-1.50	Colorimetric	08 Jul 2020	CSF
pH (on-site)	6.69 @30.2°C	---	6.5-8.5	Electrometric	08 Jul 2020	MBS
Total Hardness as CaCO ₃	146	mg/L	300	EDTA Titrimetric	15 Jul 2020	CSF



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Sample ID:	S20-G09-015D	Sampling Date:	08 Jul 2020
Sample Description:	Mr. Gregorio Residence	Sampling Time:	11:02 AM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	<0.10	mg/L	1.0	Phenanthroline	14 Jul 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	14 Jul 2020	TPS
Chlorine, Residual	0.49	mg/L	0.30-1.50	Colorimetric	08 Jul 2020	CSF
pH (on-site)	6.73 @33.0°C	---	6.5-8.5	Electrometric	08 Jul 2020	MBS
Total Hardness as CaCO ₃	150	mg/L	300	EDTA Titrimetric	15 Jul 2020	CSF

Sample ID:	S20-G09-016D	Sampling Date:	08 Jul 2020
Sample Description:	Reservoir 1	Sampling Time:	11:13 AM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	0.35	mg/L	1.0	Phenanthroline	14 Jul 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	14 Jul 2020	TPS
Chlorine, Residual	1.3	mg/L	0.30-1.50	Colorimetric	08 Jul 2020	CSF
pH (on-site)	6.67 @30.5°C	---	6.5-8.5	Electrometric	08 Jul 2020	MBS
Total Hardness as CaCO ₃	173	mg/L	300	EDTA Titrimetric	15 Jul 2020	CSF

Sample ID:	S20-G09-017D	Sampling Date:	08 Jul 2020
Sample Description:	N2	Sampling Time:	11:20 AM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	<0.10	mg/L	1.0	Phenanthroline	14 Jul 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	14 Jul 2020	TPS
Chlorine, Residual	1.24	mg/L	0.30-1.50	Colorimetric	08 Jul 2020	CSF
pH (on-site)	6.65 @31.3°C	---	6.5-8.5	Electrometric	08 Jul 2020	MBS
Total Hardness as CaCO ₃	183	mg/L	300	EDTA Titrimetric	15 Jul 2020	CSF

Sample ID:	S20-G09-018D	Sampling Date:	08 Jul 2020
Sample Description:	N1	Sampling Time:	11:27 AM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	<0.10	mg/L	1.0	Phenanthroline	14 Jul 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	14 Jul 2020	TPS
Chlorine, Residual	1.25	mg/L	0.30-1.50	Colorimetric	08 Jul 2020	CSF
pH (on-site)	6.97 @30.6°C	---	6.5-8.5	Electrometric	08 Jul 2020	MBS
Total Hardness as CaCO ₃	181	mg/L	300	EDTA Titrimetric	15 Jul 2020	CSF

Sample ID:	S20-G09-019D	Sampling Date:	08 Jul 2020
Sample Description:	N3	Sampling Time:	11:34 AM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	<0.10	mg/L	1.0	Phenanthroline	14 Jul 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	14 Jul 2020	TPS
Chlorine, Residual	0.55	mg/L	0.30-1.50	Colorimetric	08 Jul 2020	CSF
pH (on-site)	6.68 @31.1°C	---	6.5-8.5	Electrometric	08 Jul 2020	MBS
Total Hardness as CaCO ₃	149	mg/L	300	EDTA Titrimetric	15 Jul 2020	CSF



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Sample ID: S20-G09-020D				Sampling Date: 08 Jul 2020		
Sample Description: Deepwell 7				Sampling Time: 11:50 AM		
Sample Matrix: Drinking Water				Sampling Location: Anvaya Cove, Morong, Bataan		
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	<0.10	mg/L	1.0	Phenanthroline	14 Jul 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	14 Jul 2020	TPS
pH (on-site)	7.08 @30.9°C	---	6.5-8.5	Electrometric	08 Jul 2020	MBS
Total Hardness as CaCO ₃	177	mg/L	300	EDTA Titrimetric	15 Jul 2020	CSF

Sample ID: S20-G09-021D				Sampling Date: 08 Jul 2020		
Sample Description: N9				Sampling Time: 02:33 PM		
Sample Matrix: Drinking Water				Sampling Location: Anvaya Cove, Morong, Bataan		
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	<0.10	mg/L	1.0	Phenanthroline	14 Jul 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	14 Jul 2020	TPS
Chlorine, Residual	0.48	mg/L	0.30-1.50	Colorimetric	08 Jul 2020	CSF
pH (on-site)	7.22 @31.7°C	---	6.5-8.5	Electrometric	08 Jul 2020	MBS
Total Hardness as CaCO ₃	231	mg/L	300	EDTA Titrimetric	15 Jul 2020	CSF

Sample ID: S20-G09-022D				Sampling Date: 08 Jul 2020		
Sample Description: Deepwell 10				Sampling Time: 02:38 PM		
Sample Matrix: Drinking Water				Sampling Location: Anvaya Cove, Morong, Bataan		
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	<0.10	mg/L	1.0	Phenanthroline	14 Jul 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	14 Jul 2020	TPS
pH (on-site)	6.28 @29.7°C	---	6.5-8.5	Electrometric	08 Jul 2020	MBS
Total Hardness as CaCO ₃	154	mg/L	300	EDTA Titrimetric	15 Jul 2020	CSF

Sample ID: S20-G09-023D				Sampling Date: 08 Jul 2020		
Sample Description: Deepwell 11				Sampling Time: 03:09 PM		
Sample Matrix: Drinking Water				Sampling Location: Anvaya Cove, Morong, Bataan		
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	<0.10	mg/L	1.0	Phenanthroline	14 Jul 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	15 Jul 2020	TPS
pH (on-site)	6.98 @31.6°C	---	6.5-8.5	Electrometric	08 Jul 2020	MBS
Total Hardness as CaCO ₃	187	mg/L	300	EDTA Titrimetric	15 Jul 2020	CSF

Sample ID: S20-G09-024D				Sampling Date: 08 Jul 2020		
Sample Description: SBV Condo				Sampling Time: 02:45 PM		
Sample Matrix: Drinking Water				Sampling Location: Anvaya Cove, Morong, Bataan		
Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	<0.10	mg/L	1.0	Phenanthroline	14 Jul 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	14 Jul 2020	TPS
Chlorine, Residual	0.45	mg/L	0.30-1.50	Colorimetric	08 Jul 2020	CSF
pH (on-site)	7.19 @31.2°C	---	6.5-8.5	Electrometric	08 Jul 2020	MBS
Total Hardness as CaCO ₃	195	mg/L	300	EDTA Titrimetric	15 Jul 2020	CSF



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Sample ID:	S20-G09-025D	Sampling Date:	08 Jul 2020
Sample Description:	N6B	Sampling Time:	02:56 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	<0.10	mg/L	1.0	Phenanthroline	14 Jul 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	14 Jul 2020	TPS
Chlorine, Residual	0.48	mg/L	0.30-1.50	Colorimetric	08 Jul 2020	CSF
pH (on-site)	7.13 @31.7°C	---	6.5-8.5	Electrometric	08 Jul 2020	MBS
Total Hardness as CaCO ₃	191	mg/L	300	EDTA Titrimetric	15 Jul 2020	CSF

Sample ID:	S20-G09-026D	Sampling Date:	08 Jul 2020
Sample Description:	Reservoir 2	Sampling Time:	02:53 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	<0.10	mg/L	1.0	Phenanthroline	14 Jul 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	15 Jul 2020	TPS
Chlorine, Residual	0.46	mg/L	0.30-1.50	Colorimetric	08 Jul 2020	CSF
pH (on-site)	7.15 @31.6°C	---	6.5-8.5	Electrometric	08 Jul 2020	MBS
Total Hardness as CaCO ₃	185	mg/L	300	EDTA Titrimetric	15 Jul 2020	CSF

Sample ID:	S20-G09-027D	Sampling Date:	08 Jul 2020
Sample Description:	Villas	Sampling Time:	12:57 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	<0.10	mg/L	1.0	Phenanthroline	14 Jul 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	14 Jul 2020	TPS
Chlorine, Residual	0.52	mg/L	0.30-1.50	Colorimetric	08 Jul 2020	CSF
pH (on-site)	6.61 @29.5°C	---	6.5-8.5	Electrometric	08 Jul 2020	MBS
Total Hardness as CaCO ₃	179	mg/L	300	EDTA Titrimetric	15 Jul 2020	CSF

Sample ID:	S20-G09-028D	Sampling Date:	08 Jul 2020
Sample Description:	BNC Backdoor	Sampling Time:	01:06 PM
Sample Matrix:	Drinking Water	Sampling Location:	Anvaya Cove, Morong, Bataan

Parameter	Result	Unit	Limit	Method	Date Analyzed	Analyst
Iron	<0.10	mg/L	1.0	Phenanthroline	15 Jul 2020	RRM
Manganese	<0.14	mg/L	0.40	Persulfate	14 Jul 2020	TPS
Chlorine, Residual	0.53	mg/L	0.30-1.50	Colorimetric	08 Jul 2020	CSF
pH (on-site)	6.97 @29.8°C	---	6.5-8.5	Electrometric	08 Jul 2020	MBS
Total Hardness as CaCO ₃	134	mg/L	300	EDTA Titrimetric	15 Jul 2020	CSF



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Notes & References:

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

DOH Administrative Order No. 2017-0010, PNSDW 2017.

Certified by:

17 Jul 2020
Theresa A. Sayo, RCh

Laboratory Manager, PRC No. 9412

Approved by:

17 Jul 2020
May Ann M. Estavillo, RCh

QA/QC Manager, PRC No. 8652

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