

3RD QUARTER MMT CMDC VALIDATION

4TH Quarter Air, Noise, and Water Sampling

TORONTO NICKEL MINING PROJECT
Brgy. San Isidro (Bato-Bato), Narra, Palawan

Sampling Team Members

EMB - MIMAROPA

PEMU, PALAWAN: SupEMS Mercedita B. Almorfe

REGIONAL OFFICE: Geologist Niño Jefferson L. Rojas

MENRO Narra: SEMS Shiel Nalda

CMDC Representatives: PCO Monica Alaska and company

OUTLINE

ENVIRONMENTAL LAWS

- I. R.A. No. 6969 (Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990)
 - II. R.A. No. 9003 (Ecological Solid Waste Management of 2000)
 - III. R.A. No. 9275 (Philippine Clean Water Act of 2004)
Water Sampling Activities
 - IV. R.A. No. 8749 (Philippine Clean Air Act of 1999)
Air and Noise Sampling Activities
-

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Republic Act No. 6969

Toxic Substances and Hazardous and Nuclear
Wastes Control Act of 1990

1

R.A. 6969 (Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990)



Republic of the Philippines
Department of Environment and Natural Resources
ENVIRONMENTAL MANAGEMENT BUREAU
Region 4B
PENRO Compound, Brgy. Suqui, Calapan City, Oriental
Mindoro, Satellite Office, 6th Floor DENR by the Bay
Bldg., 1515 Roxas Blvd., Ermita, Manila
Telephone Nos: (02) 536-97-86
Website: <http://mimarepa.emb.gov.ph/>

HAZARDOUS WASTE GENERATOR REGISTRATION CERTIFICATE

Pursuant to Chapter 3 of DENR Administrative Order (DAO) No. 2013-22, the implementing Rules and Regulations of Republic Act (RA) 6969, this Certificate is issued to:

Name of Establishment: **CITINICKEL MINES AND DEVELOPMENT CORPORATION (CMDC)-TORONTO NICKEL MINING PROJECT**

Facility Address: **KILOMETER 108, BATO-BATO, NARRA, PALAWAN**

You are hereby assigned with the new on-line registration no

OL-GR-R4B-53-010505

This certifies that the above-named Hazardous Wastes Generator generates the following types of wastes:

Waste Class	Waste Number
Lead compounds	D406
Mercury and mercury compounds	D407
Grease wastes	H802
Used industrial oil including sludge	I101
Oil-contaminated Materials	I104
Containers previously containing toxic chemical substances	J201
Pathological or infectious wastes	M501
Pharmaceuticals and drugs	M503
Waste electrical and electronic equipment (WEEE)	M506

- The above-named HW Generator shall comply with all the requirements of R.A 6969 and its implementing Rules and Regulations particularly DAO 2013-22, Revised Procedures and Standards for the Management of Hazardous Wastes (Revising DAO 2004-56).
- Submission of the online self monitoring report shall be made within fifteen (15) days after the end of every reporting period.
- Please refer to this assigned registration number for every transaction related to the online Hazardous Waste Management System.
- Non-compliance to the above stipulations shall be subjected to the penalty provisions as provided under Section 41 of DAO 1992-29 and Chapter 11 of DAO 2013-22.


JOE AMILAL SALANO
Regional Director

October 07, 2021



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R.A. 6969 (Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990)



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Department of Environment and Natural Resources
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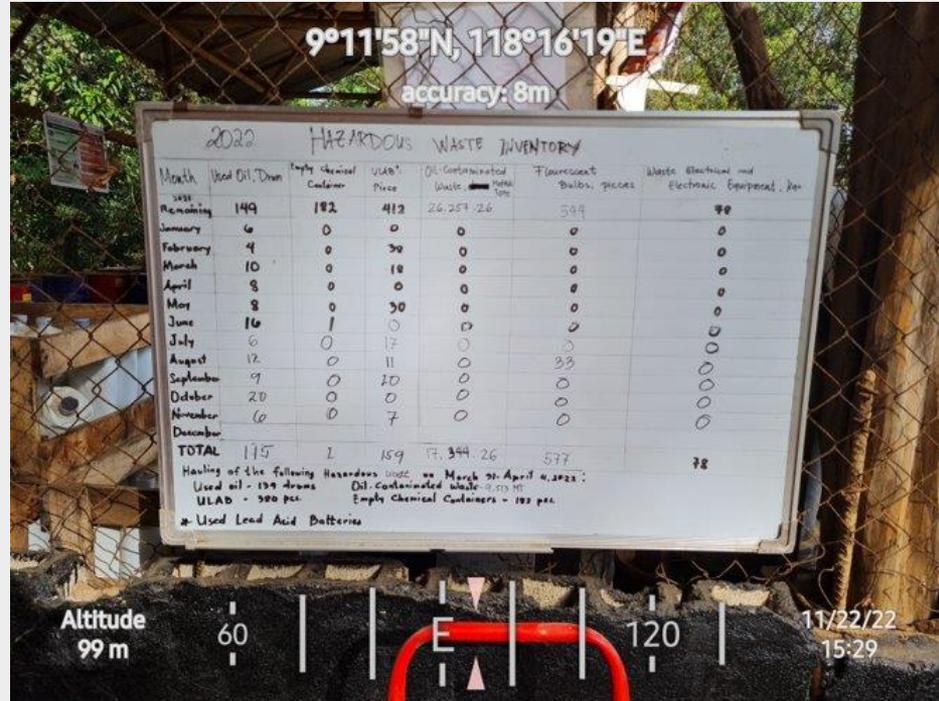
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- Submission of the online self monitoring report shall be made within fifteen (15) days after the end of every reporting period.
- Please refer to this assigned registration number for every transaction related to the online Hazardous Waste Management System.
- Non-compliance to the above stipulations shall be subjected to the penalty provisions as provided under Section 41 of DAO 1992-29 and Chapter 11 of DAO 2013-22.


JOE AMIL SALANO
Regional Director

October 07, 2021



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GENERAL RECOMMENDATIONS

- Continue the assistance to the contractors in complying with the applicable environmental laws (e.g., registration for ID as Hazardous Waste Generator.)

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Republic Act No. 9003

Ecological Solid Waste Management of 2000

2

R.A. 9003 (Ecological Solid Waste Management of 2000)

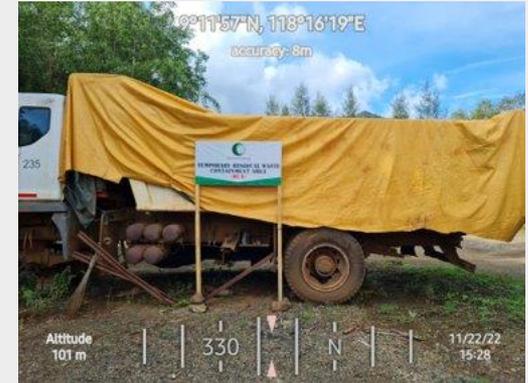
Storage Bins within the
TNMP Campus



Materials Recovery Facility
(MRF)



Residual Containment Area
(RCA)



FINDINGS AND OBSERVATIONS

- The present facility of the company for residual wastes generation called as Residual Containment Area (RCA - old dump truck) may not fully accommodate the generation of the residual wastes of the company if prolongs its use.

GENERAL RECOMMENDATIONS

- Tie up with the LGU Narra via Memorandum of Agreement (MOA) in utilizing portion of the Municipal Landfill to accommodate the residual wastes of the Company. Coordinate closely with the Office of the MENRO pertaining to the drafting of a MOA for the terms and conditions.

0

Republic Act No. 9275

Philippine Clean Water Act of 2004

3

R.A. 9275 (Philippine Clean Water Act of 2004)

Discharge Permits

Page 1 of 2

Page 1 of 2

Page 1 of 2



Date: Mar 01, 2021

Permit No.: DP-R4B-21-01206
Renewal

WA STEWATER DISCHARGE PERMIT

Pursuant to Section 14, Article 2, of the RA 9275 otherwise known as the "Philippine Clean Water Act of 2004", this permit is hereby granted to **Cerro L. Ternate Nickel Mines And Development Corporation** with office address at South National Highway, Bato-Bato, Nara, Palawan for its establishment:

Cerro L. Ternate Nickel Mines And Development Corporation South National Highway Bato-bato NARRA
TIN No. 245-745-964-001

- This permit is issued to the Terno Nickel Mining Project and the permit holder shall discharge to the final discharge point of Admin Siltation Pond with a capacity of 465.19 cubic meters.
- The permit holder shall ensure that discharge rate of the effluent from the Admin Siltation Pond shall not exceed its design rate capacity and shall comply with the following standard:

Parameter	Standard	Parameter	Standard
pH	6.0 - 9.0	Total Suspended Solids	85 mg/L
Manganese	2 mg/L	Arsenic	0.02 mg/L
Cadmium	0.005 mg/L	Lead	0.02 mg/L
Nickel	0.2 mg/L		

*Reference to effluent parameters: DAO 2015-09, PSC Code - 0294

- That the maximum effluent generation required for process operation, agricultural purposes (watering of plants, trees, and other vegetation), environmental mitigation (i.e., road watering/sprinkling) and clearing of facilities shall be submitted at the following interval: thirty (30) days upon receipt hereof.
- Submit Self-Monitoring (SMR) based on the following schedule:

Quarter	Coverage	Submission	Quarter	Coverage	Submission
First	Jan-Mar	1-15 Apr.	Third	Jul-Sep.	1-15 Oct.
Second	Apr-Jun.	1-15 Jul.	Fourth	Oct-Dec.	1-15 Jan.

- The permit holder shall include effluent analysis on the parameters listed in condition no. 2 of this permit, conducted by Third Party Laboratory duly recognized by EMB, in every submission of the SMR.
- All water consumption shall be measured and recorded on a daily basis. An effective flow-measuring devices (s) shall be installed for this purpose.
- The permit holder shall maintain the accessible sampling point for water sampling activity of the WTF.
- The permit holder shall maintain the flow-measuring device at influent and effluent sides of its WTF. A monitoring logbook shall be maintained and kept at all times. It shall be made available to DENR-EMB and/or its duly authorized representatives).
- Submit certificate or any documentary proof of desludging of the WTF.



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Protect the environment... Protect life...

Admin SP



Date: Sep 07, 2022

Permit No.: DP-R4B-22-06862
Renewal

WA STEWATER DISCHARGE PERMIT

Pursuant to Section 14, Article 2, of the RA 9275 otherwise known as the "Philippine Clean Water Act of 2004", this permit is hereby granted to **Cerro L. Ternate Nickel Mines And Development Corporation** with office address at South National Highway, Bato-Bato, Nara, Palawan for its establishment:

Cerro L. Ternate Nickel Mines And Development Corporation - South National Highway Bato-bato NARRA
TIN No. 245-745-964-001

- This permit is issued to the Terno Nickel Mining Project and the permit holder shall discharge to the final discharge point of Pier Yard Siltation Pond with a capacity of 55.09 cubic meters.
- The permit holder shall ensure that discharge rate of the effluent from the Pier Yard Siltation Pond shall not exceed its design rate capacity and shall comply with the following standard:

Parameter	Standard	Parameter	Standard
pH	6.0-9.0	Arsenic	0.04 mg/L
Manganese	4 mg/L	Lead	0.1 mg/L
Cadmium	0.01 mg/L	Total Suspended Solids	100 mg/L
Nickel	0.3 mg/L		

*Reference to effluent parameters: DAO 2015-09 AND DAO 2015-10, PSC Code - 0294

- Submit Wastewater Discharge Permit Application for your other outfall/outlet within thirty (30) days upon receipt hereof, if any.
- Submit Self-Monitoring (SMR) based on the following schedule:

Quarter	Coverage	Submission	Quarter	Coverage	Submission
* First	Jan-Mar	1-15 Apr.	* Third	Jul-Sep.	1-15 Oct.
* Second	Apr-Jun.	1-15 Jul.	* Fourth	Oct-Dec.	1-15 Jan.

*Include Certificate of Treatment for any effluent discharged to any receiving water body or land in every submission of the SMR

- The permit holder shall include effluent analysis on the parameters listed in condition no. 2 of this permit, conducted by Third Party Laboratory duly recognized by EMB, in every submission of the SMR.
- All water consumption shall be measured and recorded on a daily basis. An effective flow-measuring devices (s) shall be installed for this purpose.
- The permit holder shall maintain the flow-measuring device at influent and effluent sides of its siltation pond. A monitoring logbook shall be maintained and kept at all times. It shall be made available to DENR-EMB and/or its duly authorized representatives).
- Submit certificate or any documentary proof of desludging of the WTF.



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Protect the environment... Protect life...

Pier Yard SP



Date: Jul 15, 2022

Permit No.: DP-R4B-22-04999
Renewal

WA STEWATER DISCHARGE PERMIT

Pursuant to Section 14, Article 2, of the RA 9275 otherwise known as the "Philippine Clean Water Act of 2004", this permit is hereby granted to **Cerro L. Ternate Nickel Mines And Development Corporation** with office address at 10th Floor Ore Control Building, 9th Ave., Cor. 31st Street, Brgy. Port Bonifacio, Taguig City, Bato-Bato, Nara, Palawan for its establishment:

Cerro L. Ternate Nickel Mines And Development Corporation - South National Highway (kilometer 108) Bato-bato NARRA
TIN No. 245-745-964-001

- This permit is issued to the Terno Nickel Mining Project and the permit holder shall discharge to the final discharge point of Balitien Siltation Pond with a capacity of 91,813.00 cubic meters.
- The permit holder shall ensure that discharge rate of the effluent from the Balitien Siltation Pond shall not exceed its design rate capacity and shall comply with the following standard:

Parameter	Standard	Parameter	Standard
pH	6.0-9.0	Arsenic	0.04 mg/L
Manganese	4 mg/L	Lead	0.1 mg/L
Cadmium	0.01 mg/L	Total Suspended Solids	100 mg/L
Nickel	0.3 mg/L		

*Reference to effluent parameters: DAO 2015-09 AND DAO 2015-10, PSC Code - 0294

- Submit Wastewater Discharge Permit Application for your other outfall/outlet within thirty (30) days upon receipt hereof, if any.
- Submit Self-Monitoring (SMR) based on the following schedule:

Quarter	Coverage	Submission	Quarter	Coverage	Submission
* First	Jan-Mar	1-15 Apr.	* Third	Jul-Sep.	1-15 Oct.
* Second	Apr-Jun.	1-15 Jul.	* Fourth	Oct-Dec.	1-15 Jan.

*Include Certificate of Treatment for any effluent discharged to any receiving water body or land in every submission of the SMR

- The permit holder shall include effluent analysis on the parameters listed in condition no. 2 of this permit, conducted by Third Party Laboratory duly recognized by EMB, in every submission of the SMR.
- All water consumption shall be measured and recorded on a daily basis. An effective flow-measuring devices (s) shall be installed for this purpose.
- The permit holder shall maintain the flow-measuring device at influent and effluent sides of WTF. A monitoring log book shall be maintained and kept at all times. It shall be made available to DENR-EMB and/or its duly authorized representatives).



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Protect the environment... Protect life...

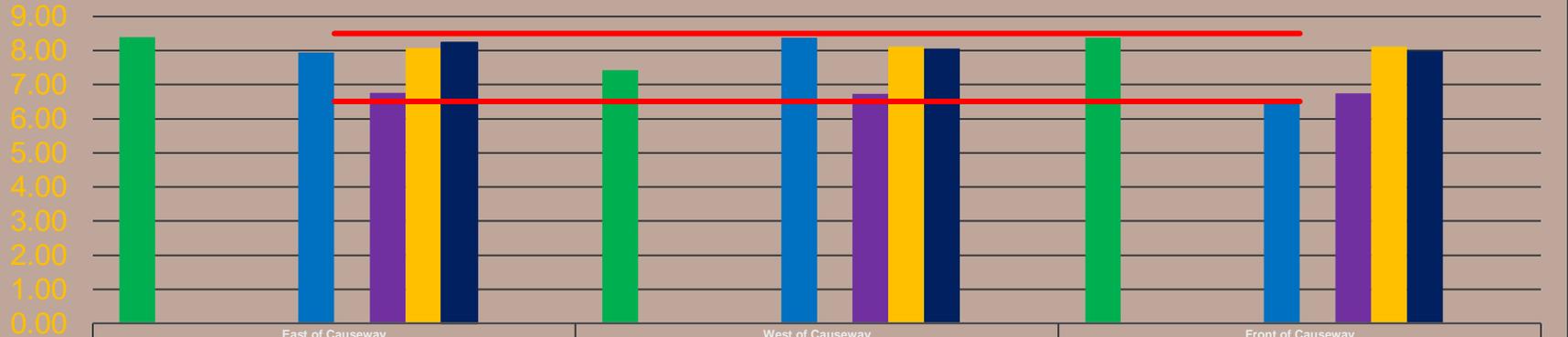
Balitien SP

MARINE SAMPLING STATIONS



MARINE SAMPLING STATIONS

pH



	East of Causeway	West of Causeway	Front of Causeway
1st Quarter 2020	8.39	7.43	8.38
2nd Quarter 2020	0	0	0
3rd Quarter 2020	0	0	0
4th Quarter 2020	0	0	0
1st Quarter 2021	0	0	0
2nd Quarter 2021	7.94	8.37	6.57
3rd Quarter 2021			
4th Quarter 2021	6.76	6.73	6.75
1st Quarter 2022	8.07	8.11	8.12
2nd Quarter 2022	8.23	8.06	7.99
3rd Quarter 2022	0	0	0
4th Quarter 2022			
DENR Standard (min)	6.5	6.5	6.5
DENR Standard (max)	8.5	8.5	8.5

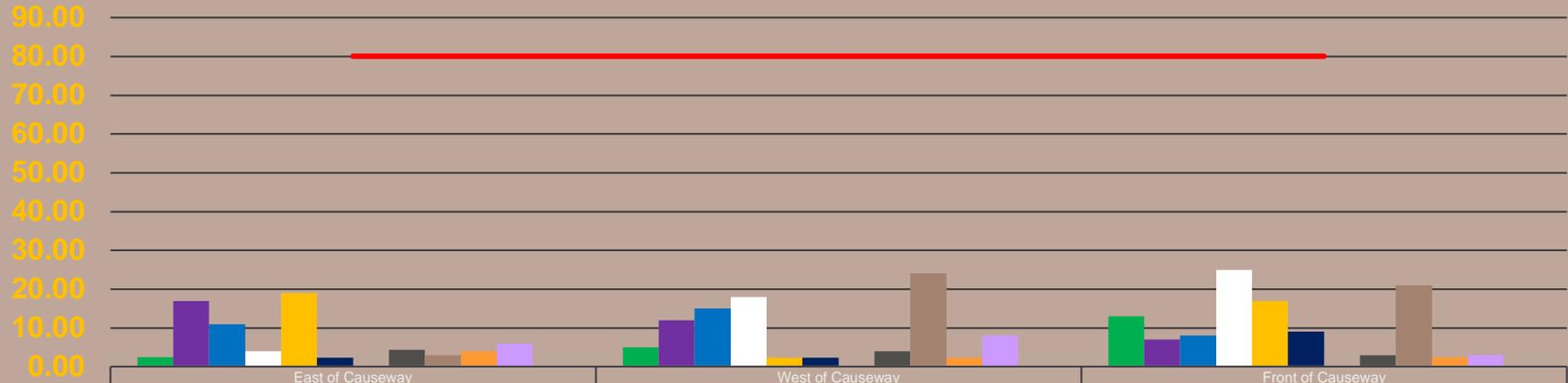
*No reading with 2nd Quarter 2020 and 1st Quarter 2021 due to defective sampler

**Unable to conduct sampling on 3rd Quarter 2022 due to gale condition

***For CY 2021, MMT was conducted on February, July and November. Hence, no data on 3rd Quarter

MARINE SAMPLING STATIONS

Suspended Solids

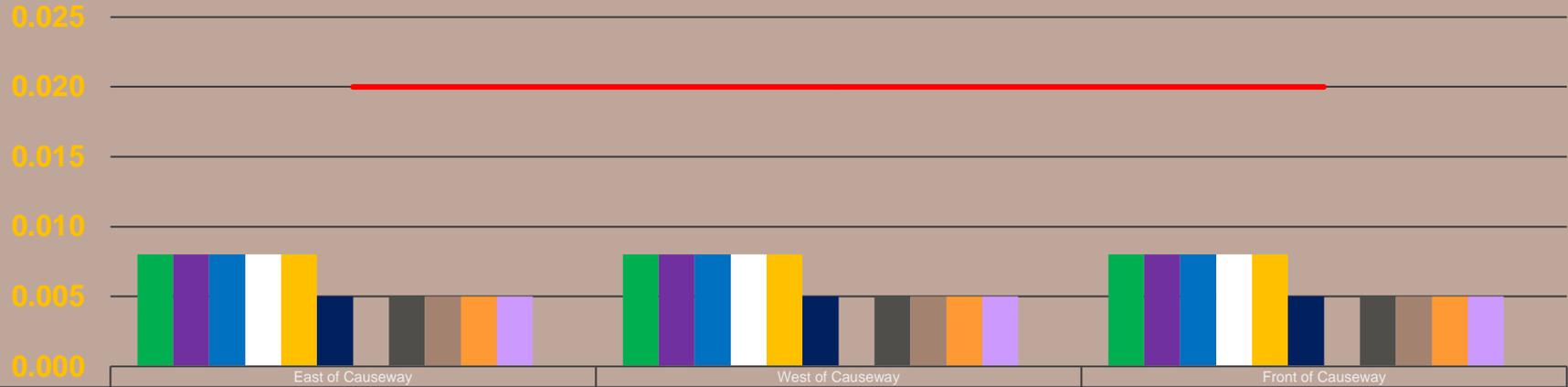


	East of Causeway	West of Causeway	Front of Causeway
1st Quarter 2020	2.50	5.00	13.00
2nd Quarter 2020	17	12	7
3rd Quarter 2020	11	15	8
4th Quarter 2020	4	18	25
1st Quarter 2021	19	2.38	17
2nd Quarter 2021	2.38	2.38	9
3rd Quarter 2021			
4th Quarter 2021	4.3	4	3
1st Quarter 2022	3	24	21
2nd Quarter 2022	4	2.38	2.5
3rd Quarter 2022	6	8	3
4th Quarter 2022			
DENR Standard	80	80	80

**For CY 2021, MMT was conducted on February, July and November. Hence, no data on 3rd Quarter*

MARINE SAMPLING STATIONS

Arsenic

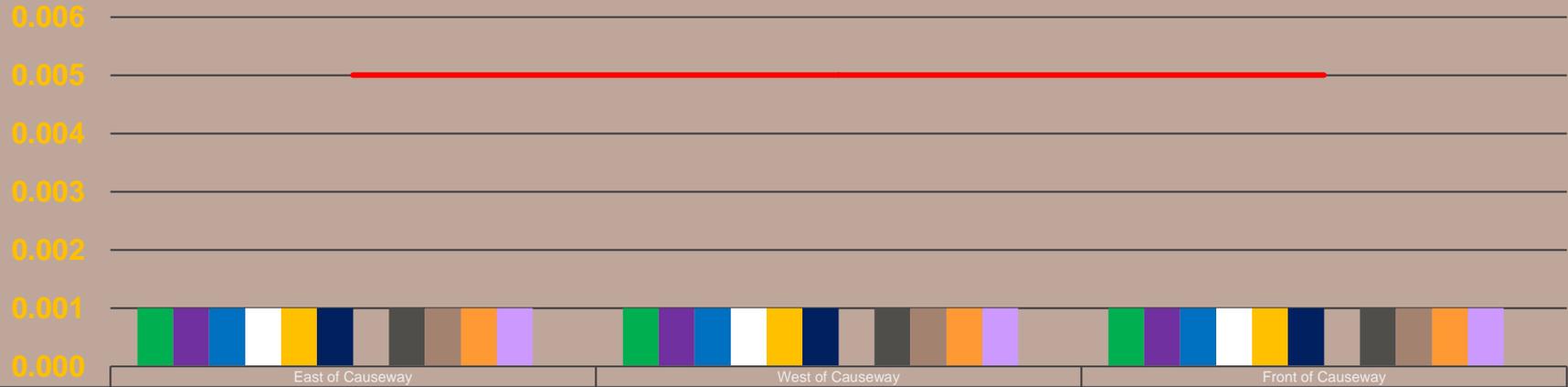


	East of Causeway	West of Causeway	Front of Causeway
1st Quarter 2020	0.008	0.008	0.008
2nd Quarter 2020	0.008	0.008	0.008
3rd Quarter 2020	0.008	0.008	0.008
4th Quarter 2020	0.008	0.008	0.008
1st Quarter 2021	0.008	0.008	0.008
2nd Quarter 2021	0.005	0.005	0.005
3rd Quarter 2021			
4th Quarter 2021	0.005	0.005	0.005
1st Quarter 2022	0.005	0.005	0.005
2nd Quarter 2022	0.005	0.005	0.005
3rd Quarter 2022	0.005	0.005	0.005
4th Quarter 2022			
DENR Standard	0.02	0.02	0.02

*For CY 2021, MMT was conducted on February, July and November. Hence, no data on 3rd Quarter

MARINE SAMPLING STATIONS

Cadmium



	East of Causeway	West of Causeway	Front of Causeway
1st Quarter 2020	0.001	0.001	0.001
2nd Quarter 2020	0.001	0.001	0.001
3rd Quarter 2020	0.001	0.001	0.001
4th Quarter 2020	0.001	0.001	0.001
1st Quarter 2021	0.001	0.001	0.001
2nd Quarter 2021	0.001	0.001	0.001
3rd Quarter 2021			
4th Quarter 2021	0.001	0.001	0.001
1st Quarter 2022	0.001	0.001	0.001
2nd Quarter 2022	0.001	0.001	0.001
3rd Quarter 2022	0.001	0.001	0.001
4th Quarter 2022			
DENR Standard	0.005	0.005	0.005

**For CY 2021, MMT was conducted on February, July and November. Hence, no data was conducted on 3rd Quarter*

MARINE SAMPLING STATIONS

Lead



	East of Causeway	West of Causeway	Front of Causeway
1st Quarter 2020	0.005	0.005	0.005
2nd Quarter 2020	0.005	0.005	0.005
3rd Quarter 2020	0.005	0.005	0.005
4th Quarter 2020	0.005	0.005	0.005
1st Quarter 2021	0.005	0.005	0.005
2nd Quarter 2021	0.005	0.005	0.005
3rd Quarter 2021			
4th Quarter 2021	0.005	0.005	0.005
1st Quarter 2022	0.005	0.005	0.005
2nd Quarter 2022	0.005	0.005	0.005
3rd Quarter 2022	0.005	0.005	0.005
4th Quarter 2022			
DENR Standard	0.05	0.05	0.05

*For CY 2021, MMT was conducted on February, July and November. Hence, no data on 3rd Quarter

MARINE SAMPLING STATIONS

Manganese

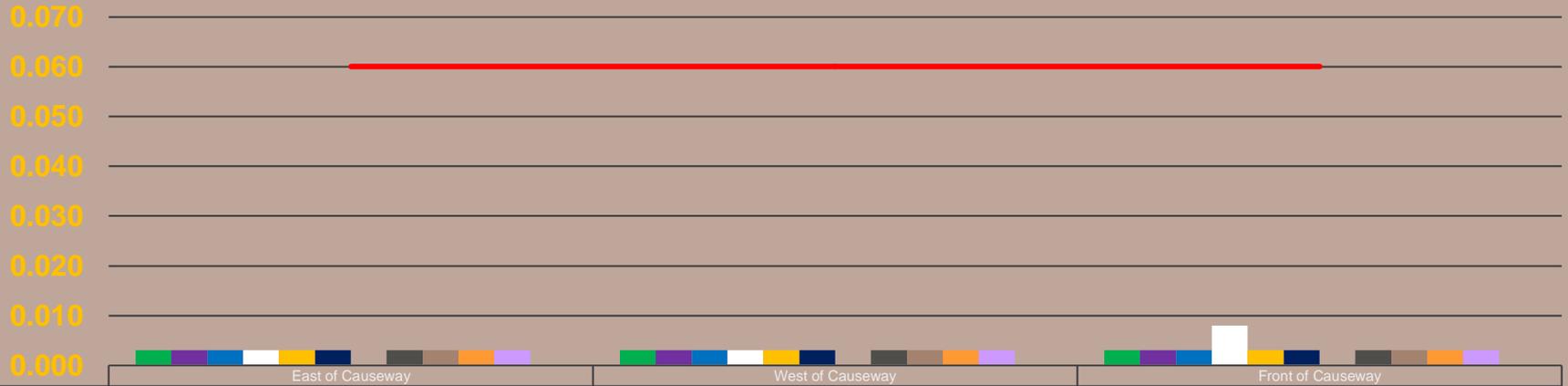


	East of Causeway	West of Causeway	Front of Causeway
1st Quarter 2020	0.003	0.003	0.003
2nd Quarter 2020	0.003	0.003	0.003
3rd Quarter 2020	0.004	0.003	0.003
4th Quarter 2020	0.003	0.004	0.005
1st Quarter 2021	0.006	0.004	0.006
2nd Quarter 2021	0.007	0.003	0.006
3rd Quarter 2021			
4th Quarter 2021	0.003	0.003	0.004
1st Quarter 2022	0.005	0.004	0.004
2nd Quarter 2022	0.003	0.003	0.003
3rd Quarter 2022	0.004	0.003	0.003
4th Quarter 2022			
DENR Standard	0.4	0.4	0.4

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MARINE SAMPLING STATIONS

Nickel



	East of Causeway	West of Causeway	Front of Causeway
1st Quarter 2020	0.003	0.003	0.003
2nd Quarter 2020	0.003	0.003	0.003
3rd Quarter 2020	0.003	0.003	0.003
4th Quarter 2020	0.003	0.003	0.008
1st Quarter 2021	0.003	0.003	0.003
2nd Quarter 2021	0.003	0.003	0.003
3rd Quarter 2021			
4th Quarter 2021	0.003	0.003	0.003
1st Quarter 2022	0.003	0.003	0.003
2nd Quarter 2022	0.003	0.003	0.003
3rd Quarter 2022	0.003	0.003	0.003
4th Quarter 2022			
DENR Standard	0.06	0.06	0.06

*For CY 2021, MMT was conducted on February, July and November. Hence, no data on 3rd Quarter

AMBIENT SAMPLING STATIONS

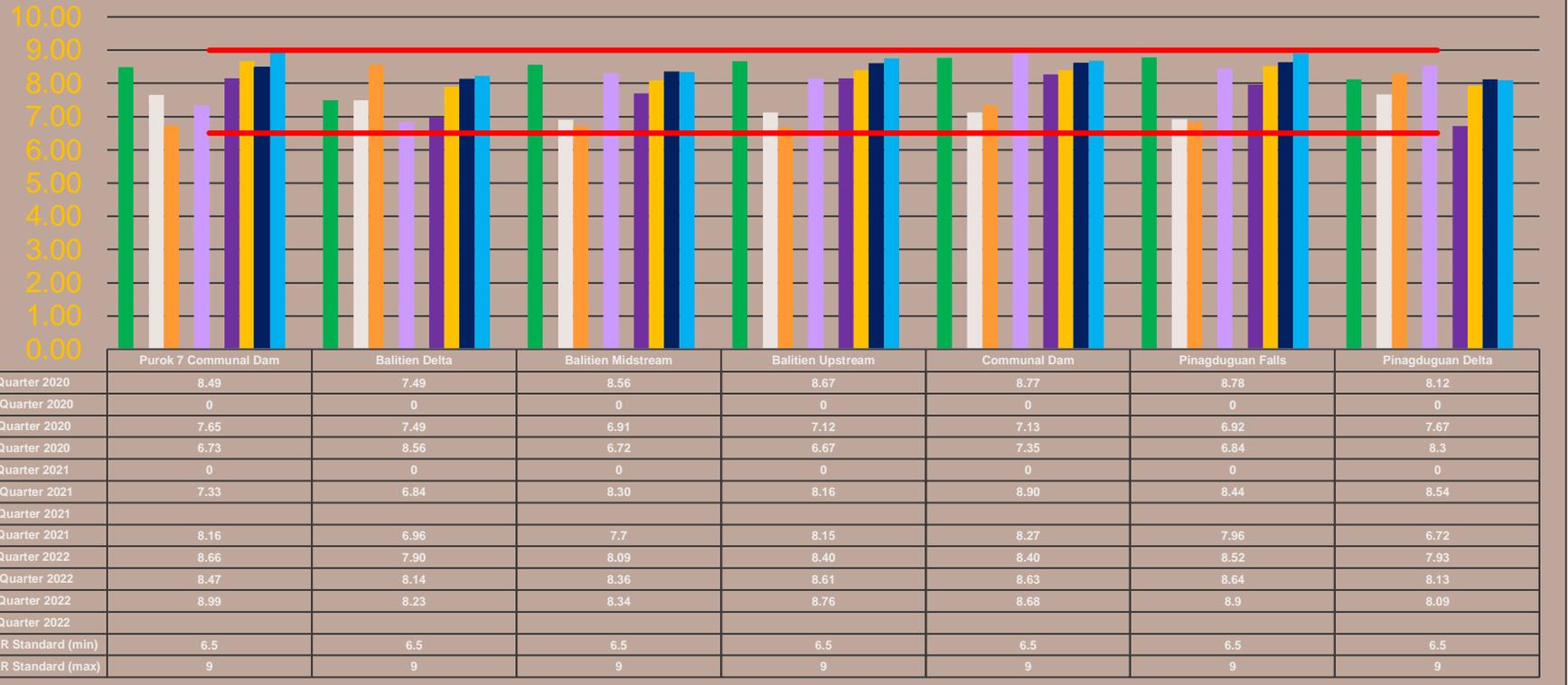


AMBIENT SAMPLING STATIONS



AMBIENT SAMPLING STATIONS

pH

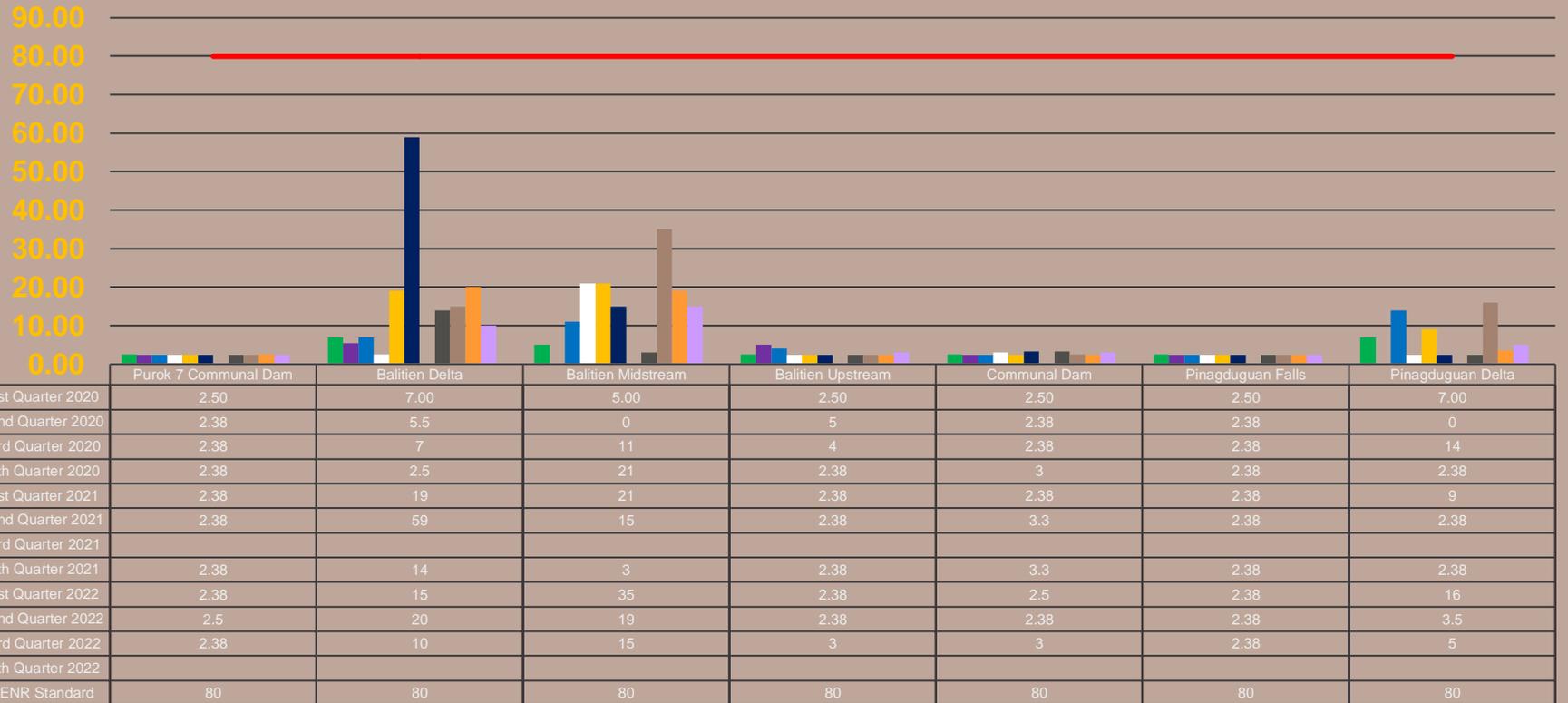


*No reading with 2nd Quarter 2020 and 1st Quarter 2021 due to defective sampler

**For CY 2021, MMT was conducted on February, July and November. Hence, no data on 3rd Quarter

AMBIENT SAMPLING STATIONS

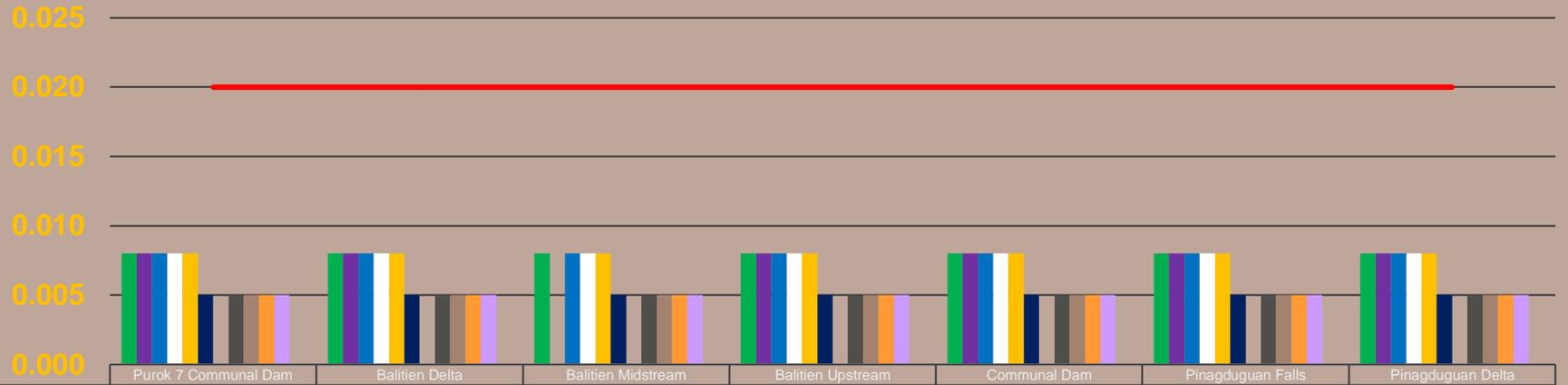
Suspended Solids



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AMBIENT SAMPLING STATIONS

Arsenic

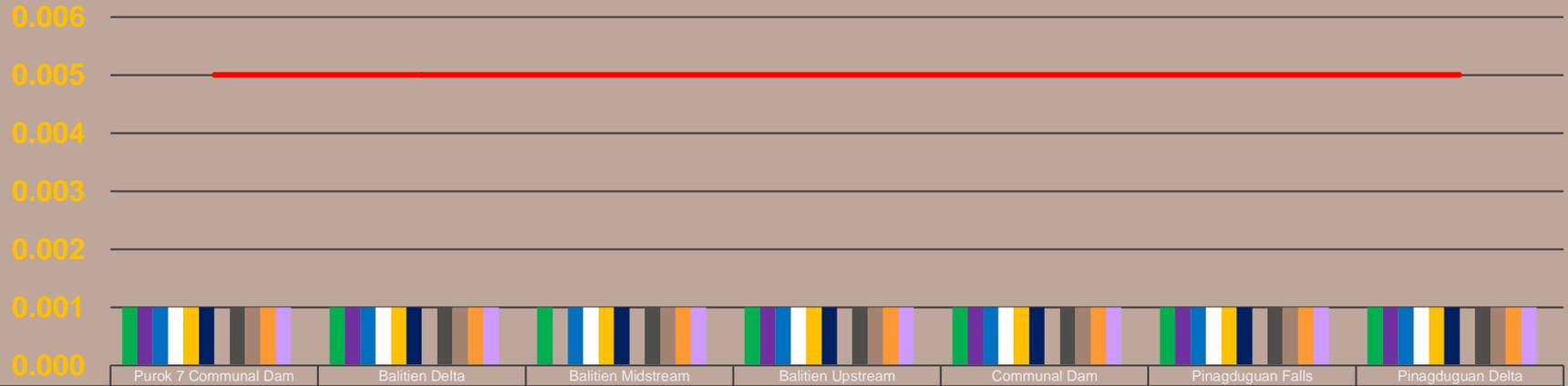


1st Quarter 2020	0.008	0.008	0.008	0.008	0.008	0.008	0.008
2nd Quarter 2020	0.008	0.008	0	0.008	0.008	0.008	0.008
3rd Quarter 2020	0.008	0.008	0.008	0.008	0.008	0.008	0.008
4th Quarter 2020	0.008	0.008	0.008	0.008	0.008	0.008	0.008
1st Quarter 2021	0.008	0.008	0.008	0.008	0.008	0.008	0.008
2nd Quarter 2021	0.005	0.005	0.005	0.005	0.005	0.005	0.005
3rd Quarter 2021							
4th Quarter 2021	0.005	0.005	0.005	0.005	0.005	0.005	0.005
1st Quarter 2022	0.005	0.005	0.005	0.005	0.005	0.005	0.005
2nd Quarter 2022	0.005	0.005	0.005	0.005	0.005	0.005	0.005
3rd Quarter 2022	0.005	0.005	0.005	0.005	0.005	0.005	0.005
4th Quarter 2022							
DENR Standard	0.02	0.02	0.02	0.02	0.02	0.02	0.02

*For CY 2021, MMT was conducted on February, July and November. Hence, no data on 3rd Quarter

AMBIENT SAMPLING STATIONS

Cadmium

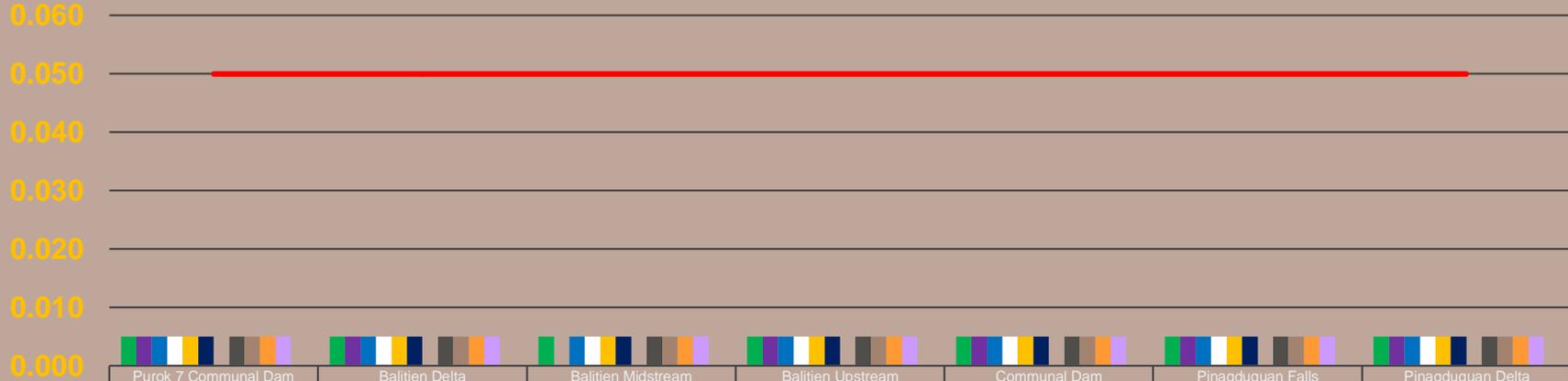


	Purok 7 Communal Dam	Balitien Delta	Balitien Midstream	Balitien Upstream	Communal Dam	Pinagduguan Falls	Pinagduguan Delta
1st Quarter 2020	0.001	0.001	0.001	0.001	0.001	0.001	0.001
2nd Quarter 2020	0.001	0.001	0	0.001	0.001	0.001	0.001
3rd Quarter 2020	0.001	0.001	0.001	0.001	0.001	0.001	0.001
4th Quarter 2020	0.001	0.001	0.001	0.001	0.001	0.001	0.001
1st Quarter 2021	0.001	0.001	0.001	0.001	0.001	0.001	0.001
2nd Quarter 2021	0.001	0.001	0.001	0.001	0.001	0.001	0.001
3rd Quarter 2021							
4th Quarter 2021	0.001	0.001	0.001	0.001	0.001	0.001	0.001
1st Quarter 2022	0.001	0.001	0.001	0.001	0.001	0.001	0.001
2nd Quarter 2022	0.001	0.001	0.001	0.001	0.001	0.001	0.001
3rd Quarter 2022	0.001	0.001	0.001	0.001	0.001	0.001	0.001
4th Quarter 2022							
DENR Standard	0.005	0.005	0.005	0.005	0.005	0.005	0.005

*For CY 2021, MMT was conducted on February, July and November. Hence, no data on 3rd Quarter

AMBIENT SAMPLING STATIONS

Lead

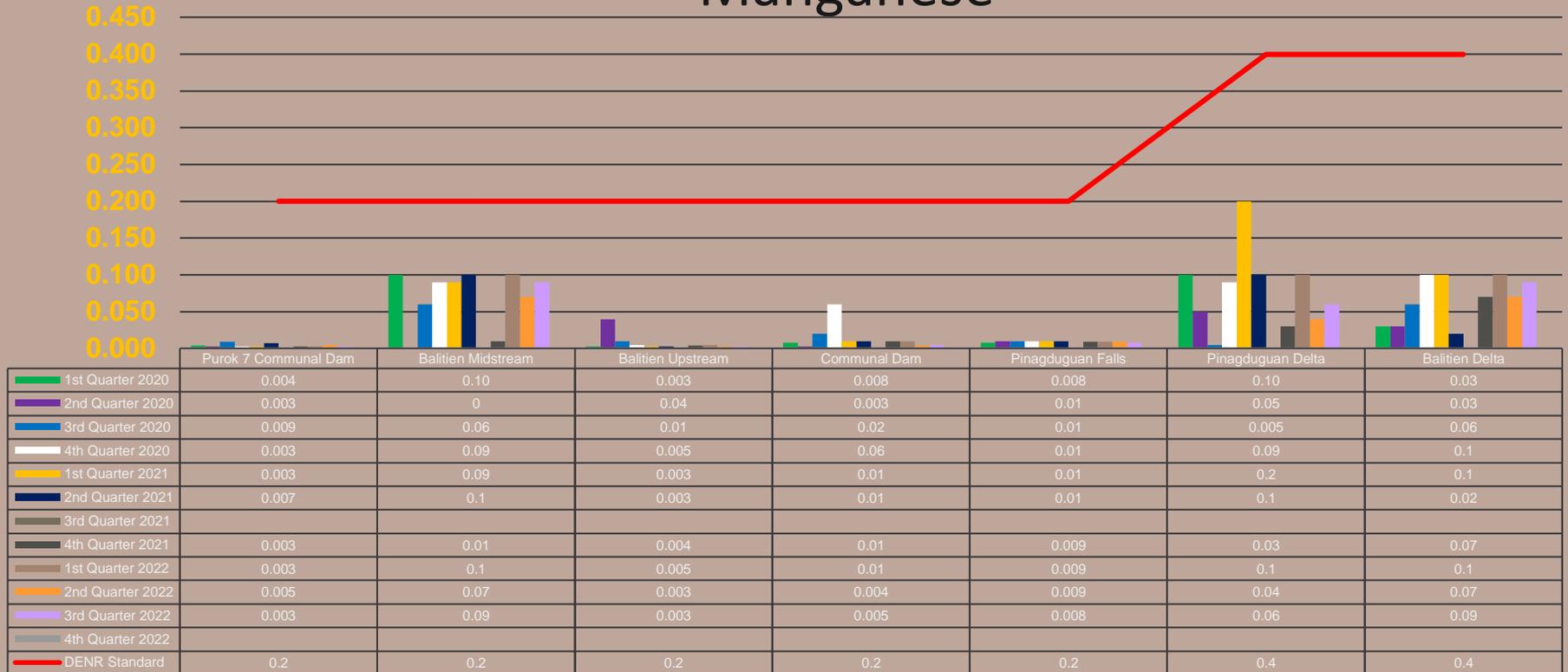


	Purok 7 Communal Dam	Balitien Delta	Balitien Midstream	Balitien Upstream	Communal Dam	Pinagduguan Falls	Pinagduguan Delta
1st Quarter 2020	0.005	0.005	0.005	0.005	0.005	0.005	0.005
2nd Quarter 2020	0.005	0.005	0	0.005	0.005	0.005	0.005
3rd Quarter 2020	0.005	0.005	0.005	0.005	0.005	0.005	0.005
4th Quarter 2020	0.005	0.005	0.005	0.005	0.005	0.005	0.005
1st Quarter 2021	0.005	0.005	0.005	0.005	0.005	0.005	0.005
2nd Quarter 2021	0.005	0.005	0.005	0.005	0.005	0.005	0.005
3rd Quarter 2021							
4th Quarter 2021	0.005	0.005	0.005	0.005	0.005	0.005	0.005
1st Quarter 2022	0.005	0.005	0.005	0.005	0.005	0.005	0.005
2nd Quarter 2022	0.005	0.005	0.005	0.005	0.005	0.005	0.005
3rd Quarter 2022	0.005	0.005	0.005	0.005	0.005	0.005	0.005
4th Quarter 2022							
DENR Standard	0.05	0.05	0.05	0.05	0.05	0.05	0.05

*For CY 2021, MMT was conducted on February, July and November. Hence, no data on 3rd Quarter

AMBIENT SAMPLING STATIONS

Manganese

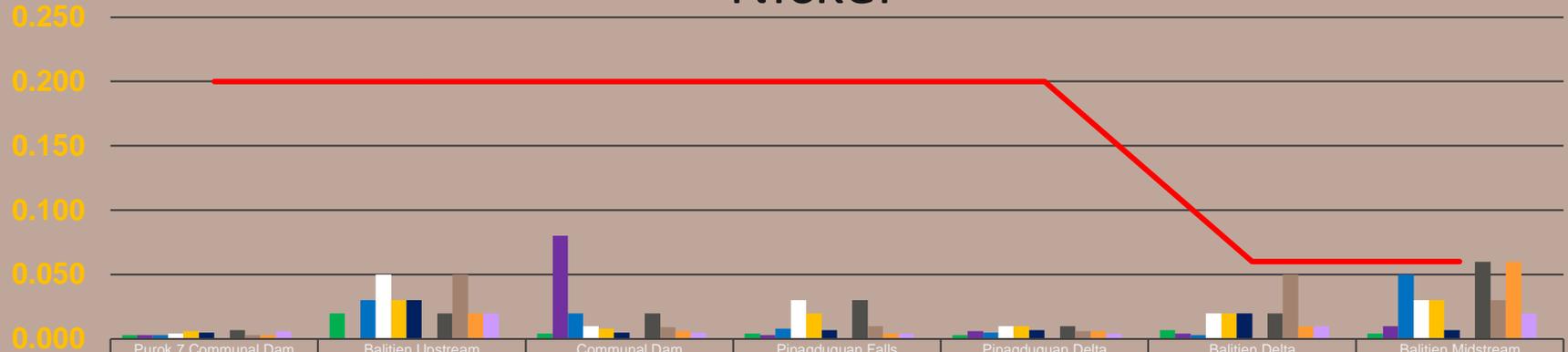


*CLASS SC Standards for Balitian Delta and Balitian Midstream, Class C Standard on other sampling stations

**For CY 2021, MMT was conducted on February, July and November. Hence, no data on 3rd Quarter

AMBIENT SAMPLING STATIONS

Nickel



	Purok 7 Communal Dam	Balitien Upstream	Communal Dam	Pinagduguan Falls	Pinagduguan Delta	Balitien Delta	Balitien Midstream
1st Quarter 2020	0.003	0.020	0.004	0.004	0.003	0.007	0.004
2nd Quarter 2020	0.003	0	0.080	0.003	0.006	0.004	0.010
3rd Quarter 2020	0.003	0.030	0.020	0.008	0.005	0.003	0.050
4th Quarter 2020	0.004	0.050	0.010	0.030	0.010	0.020	0.030
1st Quarter 2021	0.006	0.030	0.008	0.020	0.010	0.020	0.030
2nd Quarter 2021	0.005	0.030	0.005	0.007	0.007	0.020	0.007
3rd Quarter 2021							
4th Quarter 2021	0.007	0.02	0.02	0.03	0.01	0.02	0.06
1st Quarter 2022	0.003	0.050	0.009	0.010	0.006	0.050	0.030
2nd Quarter 2022	0.003	0.020	0.006	0.004	0.006	0.010	0.060
3rd Quarter 2022	0.006	0.020	0.005	0.004	0.004	0.010	0.020
4th Quarter 2022							
DENR Standard	0.2	0.2	0.2	0.2	0.2	0.06	0.06

*CLASS SC Standards for Balitien Delta and Balitien Midstream, Class C Standard on other sampling stations

**For CY 2021, MMT was conducted on February, July and November. Hence, no data on 3rd Quarter

EFFLUENT SAMPLING STATIONS

Admin Siltation Pond



Pieryard Siltation Pond

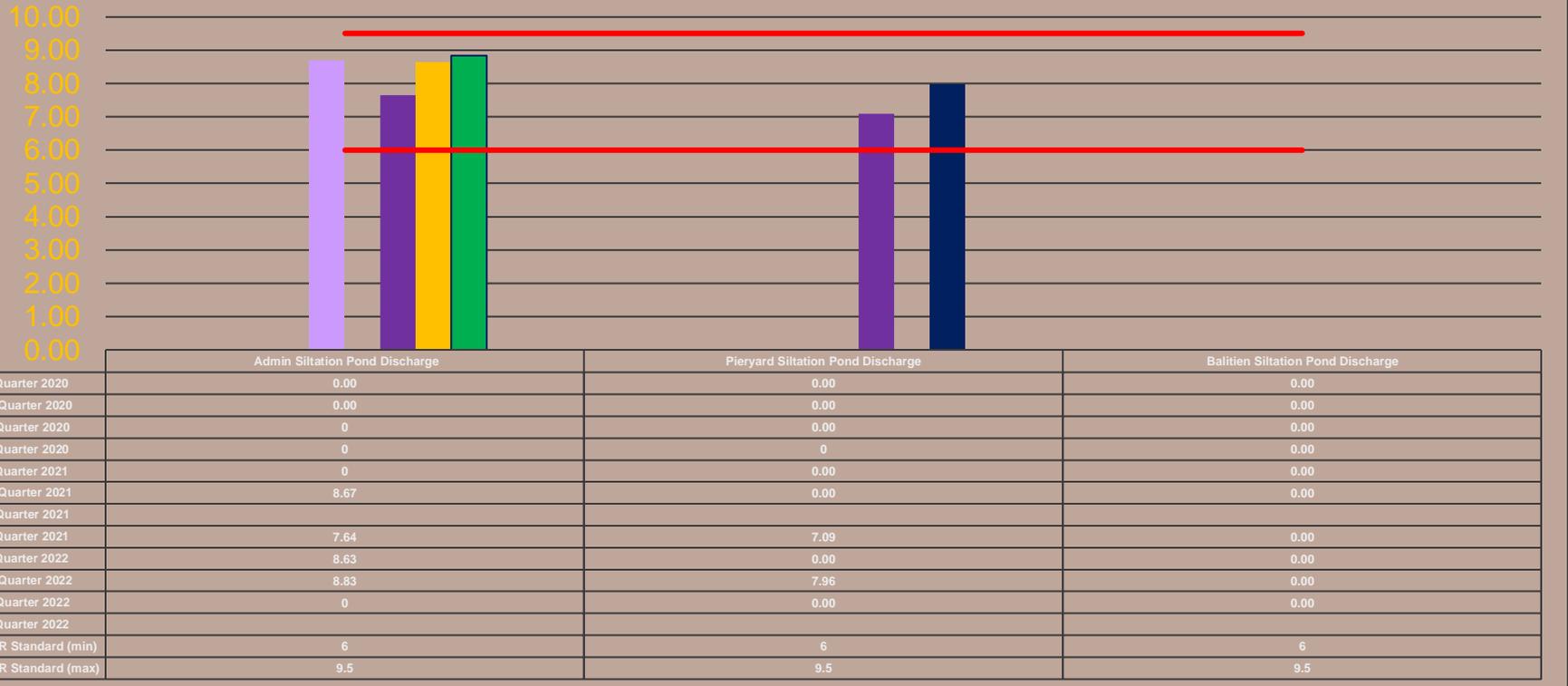


Balitien Siltation Pond



EFFLUENT SAMPLING STATIONS

pH



*No Discharge observed during Sampling Activity

**For CY 2021, MMT was conducted on February, July and November. Hence, no data on 3rd Quarter

EFFLUENT SAMPLING STATIONS

Total Suspended Solids (TSP)



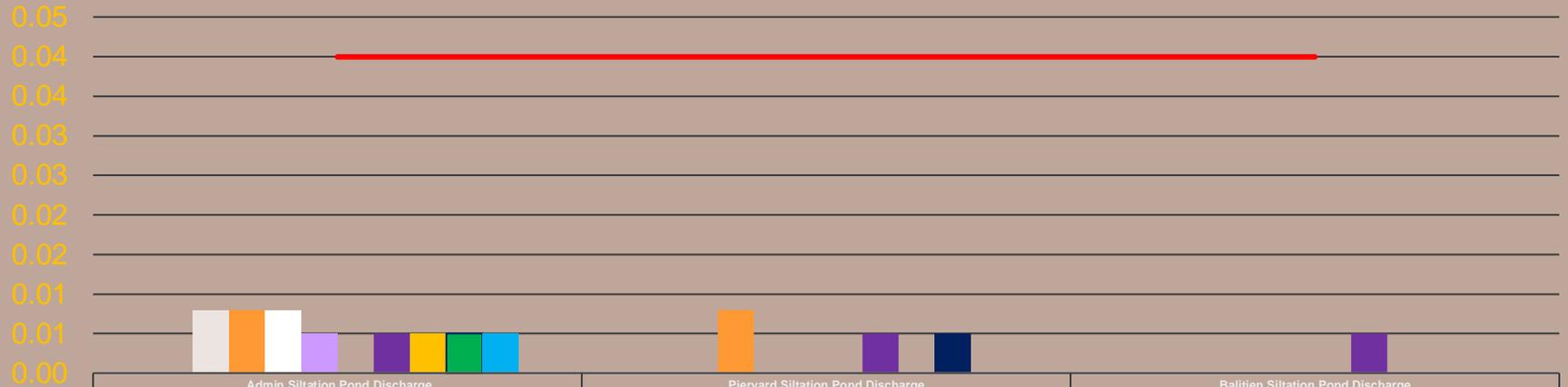
	Admin Siltation Pond Discharge	Pieryard Siltation Pond Discharge	Balitien Siltation Pond Discharge
1st Quarter 2020	0.00	0.00	0.00
2nd Quarter 2020	0.00	0.00	0.00
3rd Quarter 2020	0	0.00	0.00
4th Quarter 2020	0	0	0.00
1st Quarter 2021	0	0.00	0.00
2nd Quarter 2021	0	0.00	0.00
3rd Quarter 2021			
4th Quarter 2021	0	0	0
1st Quarter 2022	0	0.00	0.00
2nd Quarter 2022	0	0	0.00
3rd Quarter 2022	0	0.00	0.00
4th Quarter 2022			
DENR Standard	80	80	80

*No Discharge observed during Sampling Activity

**For CY 2021, MMT was conducted on February, July and November. Hence, no data on 3rd Quarter

EFFLUENT SAMPLING STATIONS

Arsenic



	Admin Siltation Pond Discharge	Pieryard Siltation Pond Discharge	Balitien Siltation Pond Discharge
1st Quarter 2020	0.00	0.00	0.00
2nd Quarter 2020	0.00	0.00	0.00
3rd Quarter 2020	0.008	0.00	0.00
4th Quarter 2020	0.008	0.008	0.00
1st Quarter 2021	0.008	0.00	0.00
2nd Quarter 2021	0.005	0.00	0.00
3rd Quarter 2021			
4th Quarter 2021	0.005	0.005	0.005
1st Quarter 2022	0.005	0.00	0.00
2nd Quarter 2022	0.005	0.005	0.00
3rd Quarter 2022	0.005	0.00	0.00
4th Quarter 2022			
DENR Standard	0.04	0.04	0.04

*No Discharge observed during Sampling Activity

**For CY 2021, MMT was conducted on February, July and November. Hence, no data on 3rd Quarter

EFFLUENT SAMPLING STATIONS

Cadmium



	Admin Siltation Pond Discharge	Pieryard Siltation Pond Discharge	Balltlen Siltation Pond Discharge
1st Quarter 2020	0.00	0.00	0.00
2nd Quarter 2020	0.00	0.00	0.00
3rd Quarter 2020	0.001	0.00	0.00
4th Quarter 2020	0.001	0.001	0.00
1st Quarter 2021	0.001	0.00	0.00
2nd Quarter 2021	0.001	0.00	0.00
3rd Quarter 2021			
4th Quarter 2021	0.001	0.001	0.001
1st Quarter 2022	0.001	0.00	0.00
2nd Quarter 2022	0.001	0.001	0.00
3rd Quarter 2022	0.001	0.00	0.00
4th Quarter 2022			
DENR Standard	0.01	0.01	0.01

No Discharge observed during Sampling Activity

****For CY 2021, MMT was conducted on February, July and November. Hence, no data on 3rd Quarter**

EFFLUENT SAMPLING STATIONS

Lead



	Admin Siltation Pond Discharge	Pieryard Siltation Pond Discharge	Balitien Siltation Pond Discharge
1st Quarter 2020	0.00	0.00	0.00
2nd Quarter 2020	0.00	0.00	0.00
3rd Quarter 2020	0.005	0.00	0.00
4th Quarter 2020	0.005	0.005	0.00
1st Quarter 2021	0.005	0.00	0.00
2nd Quarter 2021	0.005	0.00	0.00
3rd Quarter 2021			
4th Quarter 2021	0.005	0.005	0.005
1st Quarter 2022	0.005	0.00	0.00
2nd Quarter 2022	0.005	0.005	0.00
3rd Quarter 2022	0.005	0.00	0.00
4th Quarter 2022			
DENR Standard	0.1	0.1	0.1

*No Discharge observed during Sampling Activity

**For CY 2021, MMT was conducted on February, July and November. Hence, no data on 3rd Quarter

EFFLUENT SAMPLING STATIONS

Manganese



	Admin Siltation Pond Discharge	Pieryard Siltation Pond Discharge	Balltlen Siltation Pond Discharge
1st Quarter 2020	0.00	0.00	0.00
2nd Quarter 2020	0.00	0.00	0.00
3rd Quarter 2020	0.01	0.00	0.00
4th Quarter 2020	0.05	0.02	0.00
1st Quarter 2021	0.02	0.00	0.00
2nd Quarter 2021	0.01	0.00	0.00
3rd Quarter 2021			
4th Quarter 2021	0.04	0.03	0.01
1st Quarter 2022	0.02	0.00	0.00
2nd Quarter 2022	0.02	0.04	0.00
3rd Quarter 2022	0.03	0.00	0.00
4th Quarter 2022			
DENR Standard	2	2	2

***No Discharge observed during Sampling Activity**

****For CY 2021, MMT was conducted on February, July and November. Hence, no data on 3rd Quarter**

EFFLUENT SAMPLING STATIONS

Nickel



	Admin Siltation Pond Discharge	Pieryard Siltation Pond Discharge	Balitien Siltation Pond Discharge
1st Quarter 2020	0.00	0.00	0.00
2nd Quarter 2020	0.00	0.00	0.00
3rd Quarter 2020	0.02	0.00	0.00
4th Quarter 2020	0.04	0.04	0.00
1st Quarter 2021	0.03	0.00	0.00
2nd Quarter 2021	0.03	0.00	0.00
3rd Quarter 2021			
4th Quarter 2021	0.08	0.06	0.01
1st Quarter 2022	0.02	0.00	0.00
2nd Quarter 2022	0.04	0.05	0.00
3rd Quarter 2022	0.04	0.00	0.00
4th Quarter 2022			
DENR Standard	1	1	1

*No Discharge observed during Sampling Activity

**For CY 2021, MMT was conducted on February, July and November. Hence, no data on 3rd Quarter

EFFLUENT SAMPLING STATIONS

Oil and Grease



	Admin Siltation Pond Discharge	Pieryard Siltation Pond Discharge	Balittien Siltation Pond Discharge
1st Quarter 2020	0.00	0.00	0.00
2nd Quarter 2020	0.00	0.00	0.00
3rd Quarter 2020	0.67	0.00	0.00
4th Quarter 2020	1.4	0.84	0.00
1st Quarter 2021	1.3	0.00	0.00
2nd Quarter 2021	1.5	0.00	0.00
3rd Quarter 2021			
4th Quarter 2021	1.7	1.6	0.00
1st Quarter 2022	1.4	0.00	0.00
2nd Quarter 2022	1.4	1.4	0.00
3rd Quarter 2022	1.2	0.00	0.00
4th Quarter 2022			
DENR Standard	5	5	5

**No Discharge observed during Sampling Activity*

***For CY 2021, MMT was conducted on February, July and November. Hence, no data on 3rd Quarter*

FINDINGS AND OBSERVATIONS

- Human fecal coliform was observed in the water sampling station No. 6 (Balitien 2 - Midstream)



FINDINGS AND OBSERVATIONS

- Water sampling station No. 12 (Pieryard Siltation Pond) is observed to be with discharge this sampling activity which in the last MMT has none. This is a sampling station where discharge permit is being secured.



FINDINGS AND OBSERVATIONS

- The discharge permit applications for the septic tanks and fuel depots are now being prepared by the company thru its PCO while completing the supporting documents leading to online application.
- Station No. 13 (Balitien Siltation Pond) is repeatedly observed with no discharge due to the re-routing from the source of wastewater to station no. 8 (communal dam). However, at the moment, the company has no plan of abandoning this station to serve as further catchment pond of the wastewater.



FINDINGS AND OBSERVATIONS

- Released of laboratory results for air and water samples are observed to be perennially delayed which are provided to the Sampling Group already near the schedule of MRFC.
- The present facility of the company for residual wastes generation called as Residual Containment Area (RCA - 2 old dump trucks) may not fully accommodate the generation of the residual wastes of the company if prolongs its use.

GENERAL RECOMMENDATIONS

- Continue promptness of compliances to the existing environmental laws covered by the project.
- Water and Air Samples are assumed immediately brought to the third-party laboratory immediately after the execution of the activity. It is expected that the corresponding results can be released as soon as possible preferably 3-5 days before the schedule of the MRFC is set to have an ample time to prepare a more presentable power point presentation, thus avoiding a "hurry" mode in the preparation of the report for MRFC.

0

Republic Act No. 8749

Philippine Clean Air Act of 1999

4

R.A. 8749 (Philippine Clean Air Act of 1999)

Page 1 of 2



Republic of the Philippines
Department of Environment and Natural Resources
ENVIRONMENTAL MANAGEMENT BUREAU
Region IV-B
DENRO Compound, Brgy. Saab, Calabar City, Oriental Mindoro,
Sasao Office, 6th Floor DENR by the Bay Bldg., 1515 Roxas Blvd.,
Emilio Aguinaldo
Tel No. (02) 536 97 68

Permit No: PTO-QLRHS-2022-06804-R
Application Type: Renewal

Date Issued: 30 Aug 2022
Date Expiration: 30 Aug 2027

PERMIT TO OPERATE Air Pollution Source and Control Installations

Pursuant to Part IV, Rule XXX of the Rules and Regulations of RA. 8749, authority is hereby granted to:

Citnickel Mines and Development Corporation South National Highway, Bato-Bato, Narra, Palawan
(Toronto Nickel Mining Project)

subject to the following terms and conditions:

TERMS AND CONDITIONS

- This permit is issued for the permittee to operate: One (1) Unit 45.0 KVA Denyo Standby Diesel Generator Set; One (1) unit 50.0 KVA Cummins Standby Diesel Generator Set; One (1) 100.0 KVA Aitman Standby Diesel Generator Set; One (1) unit 125.0 KVA Cummins Standby Diesel Generator Set; and One (1) unit 200.0 KVA Cummins Standby Diesel Generator Set at the permittee's establishment.
- Must conform to: National Emission Standards for Source Specific Air Pollutants (Section 1, Rule XXV, Part VII of RA 8749) and Source Specific Ambient Air Quality Standards (Section 1, Rule XXVII, Part VII of RA 8749).
- Must submit notarized Quarterly Self-Monitoring Report (SMR) based on DAO-27, Series of 2003 on or before the filing dates:
1st Quarter SMR (January to March) - 15th Day of April
2nd Quarter SMR (April to June) - 15th Day of July
3rd Quarter SMR (July to September) - 15th Day of October
4th Quarter SMR (October to December) - 15th Day of January
- Subject to revocation if found violating the said permit conditions and other provisions of the Philippine Clean Air Act of 1999 (RA 8749) and its Implementing Rules and Regulations.

This operating Permit it shall be posted in a conspicuous location near the equipment and shall be adequately fenced or otherwise protected against damage. Application for the renewal of Permit to Operate must be filed thirty (30) days before the expiration date.

Recommended by:

Enr. NICOLE YURI V. BORADO
OIC, Compliance and Permitting Division

Approved by:

JOE AHIL M. SALINO
Regional Director

Filing Fee	: Php 600.00	O.R. No. 7658910P, 7659023P, 7658869P	Date: Aug. 17, 2022
Permit Fee	: Php 12000.00	O.R. No. 7658910P, 7659023P, 7658869P	Date: Aug. 17, 2022
PD1856	: Php 10.00	O.R. No. 7658910P, 7659023P, 7658869P	Date: Aug. 17, 2022
Documentary Stamp Tax	: Php 30.00	O.R. No. 7658910P, 7659023P, 7658869P	Date: Aug. 17, 2022

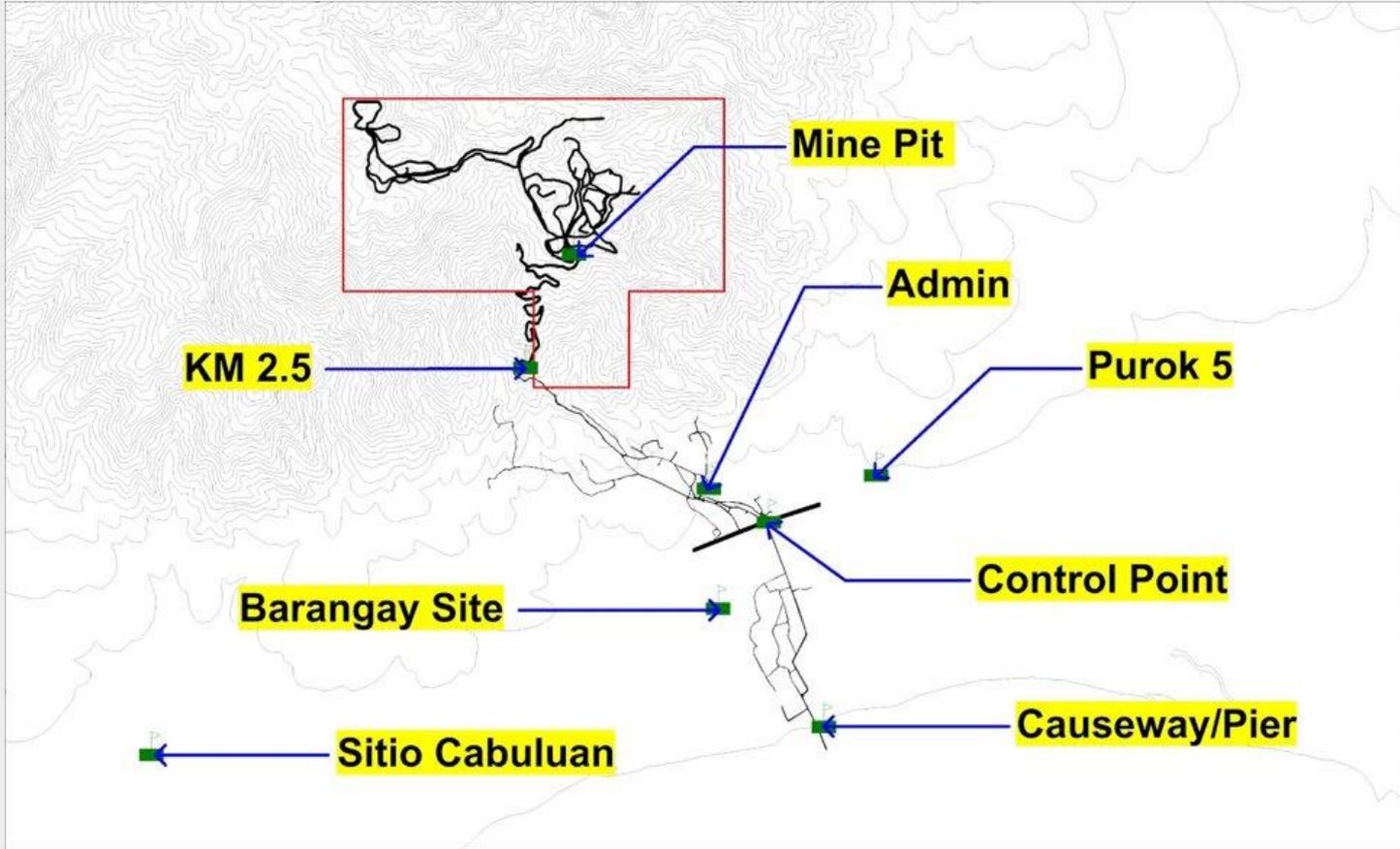


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Protect the environment... Protect life.



NOISE AND AIR SAMPLING STATIONS



NOISE AND AIR SAMPLING

Purok 5



Admin



Control Point



Mine Pit



NOISE AND AIR SAMPLING

Barangay Site



Sitio Cabuluan



AIR SAMPLING STATIONS

Total Suspended Particles (TSP) & PM10

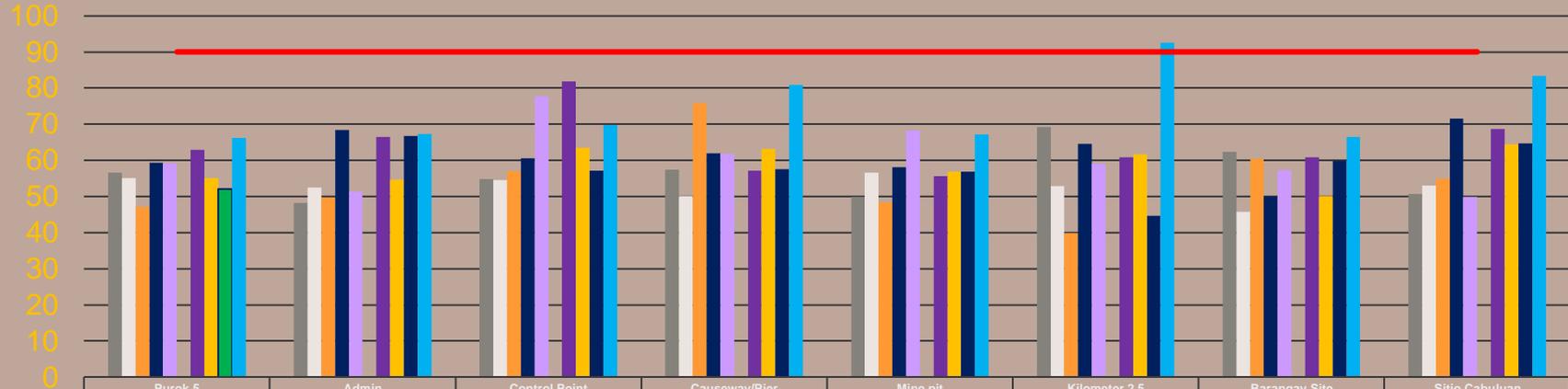


	Purok 5	Admin	Control Point	Causeway/Pier	Mine pit	Kilometer 2.5	Barangay Site	Sitio Cabuluan
1st Quarter 2020	22	33	40	56	25.00	2	21	51
2nd Quarter 2020	28	55	20	7	26	28	45	4
3rd Quarter 2020	17	6	8	17	85	120	17	9
4th Quarter 2020	7	3	2	17	13	2	3	2
1st Quarter 2021	3	1	10	12	9	16	80	21
2nd Quarter 2021	7	7	7	7	7	7	7	7
3rd Quarter 2021								
4th Quarter 2021	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
1st Quarter 2022	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
2nd Quarter 2022	0.96	0.07	0.07	0.07	1.63	0.07	0.07	0.55
3rd Quarter 2022	9	86	34	193	43	162	156	145
4th Quarter 2022	19	127	6	11	17	11	6	11
DENR Standard (TSP)	300	300	300	300	300	300	300	300
DENR Standard PM10	200	200	200	200	200	200	200	200

FEBRUARY 2020 TO FEBRUARY 2021 – TSP / JULY 2021 TO PRESENT – PM10

**For CY 2021, MMT was conducted on February, July and November. Hence, no data on 3rd Quarter

NOISE SAMPLING STATIONS



	Purok 5	Admin	Control Point	Causeway/Pier	Mine pit	Kilometer 2.5	Barangay Site	Sitio Cabuluan
1st Quarter 2020								
2nd Quarter 2020	56.55	48.25	54.75	57.45	49.9	69.15	62.4	50.65
3rd Quarter 2020	55.1	52.5	54.5	50.15	56.55	52.9	45.8	53.05
4th Quarter 2020	47.15	49.7	56.95	75.75	48.35	39.85	60.4	54.95
1st Quarter 2021	59.4	68.4	60.6	61.9	58.1	64.5	50	71.5
2nd Quarter 2021	59.2	51.4	77.7	61.8	68.3	59.1	57.3	49.9
3rd Quarter 2021								
4th Quarter 2021	62.9	66.5	81.8	57.2	55.6	60.8	60.8	68.7
1st Quarter 2022	55.1	54.6	63.4	63.2	56.9	61.7	50.2	64.4
2nd Quarter 2022	52.1	66.7	57.1	57.6	56.8	44.6	59.9	64.7
3rd Quarter 2022	66.2	67.3	69.7	80.9	67.1	92.5	66.5	83.3
4th Quarter 2022								
Standard	90	90	90	90	90	90	90	90

***FEBRUARY 2020 TO FEBRUARY 2021 – TSP / JULY 2021 TO PRESENT – PM10**
****For CY 2021, MMT was conducted on February, July and November. Hence, no data on 3rd Quarter**

REMARKS

- During the ambient air sampling, the activities are hampered by the on-and-off rain shower, hence, some of the sampling hour were not completed based on the prescribed one (1) hour period.

THANK YOU