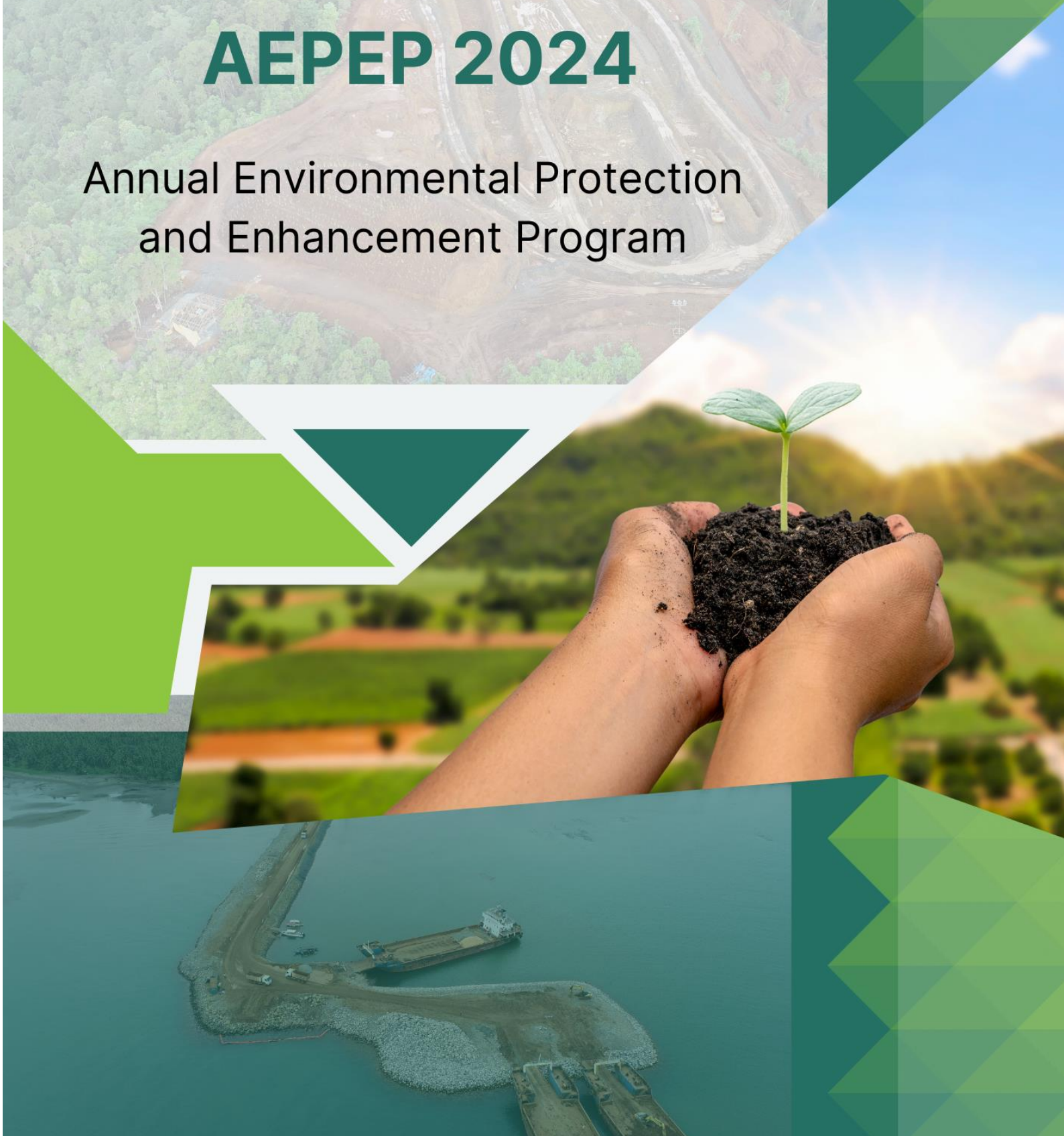
Ipilan Nickel Corporation

AEPEP 2024

Annual Environmental Protection and Enhancement Program



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Republic of the Philippines
Department of Environment and Natural Resources
MINES AND GEOSCIENCES BUREAU
Regional Office No.: IV-B (MIMAROPA)

Annual Environmental Protection and Enhancement Program CY 2024:

Ipilan Nickel Corporation

I. **Project Name:**

IPILAN NICKEL PROJECT

A. Company Name and Address

Main Office	IPILAN NICKEL CORPORATION Penthouse, Platinum Tower, Aseana Avenue corner Fuentes Street, Aseana Paranaque City 1701
Mine Site Office	Sitio New Panay, Brgy. Maasin, Brooke's Point Palawan
Telephone Number	(632) 8519-7888

B. Contact Person/Designation

ENGR. CARLO A. MATILAC
Vice President/Project Head
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Assistant Resident Mine Manager
Mobile No.: 09171520087

II. Project Description

A. Project Details

1. Location and Technical Description

(Accompanied by 1:10,000 location map with the corresponding technical description showing the development/construction, operation, and/or exploration sites/areas within the contract area)

The INC Ipilan Nickel Project is in Barangays Maasin, Ipilan, Mambalot and Calasaguen, Brooke's Point Municipality, Palawan, Philippines. The Province of Palawan is a long and narrow archipelagic island and is part of Region IV-B MIMAROPA (Mindoro, Marinduque, Romblon and Palawan), which is the largest island in Region-IV and fifth largest island in the Philippines.

The Project site coordinates are latitude 8°55'19" and longitude 117°54'45". **Figure 1-Project** Location Map – Regional and **Figure 2-** Project Accessibility Map shows the general project location.

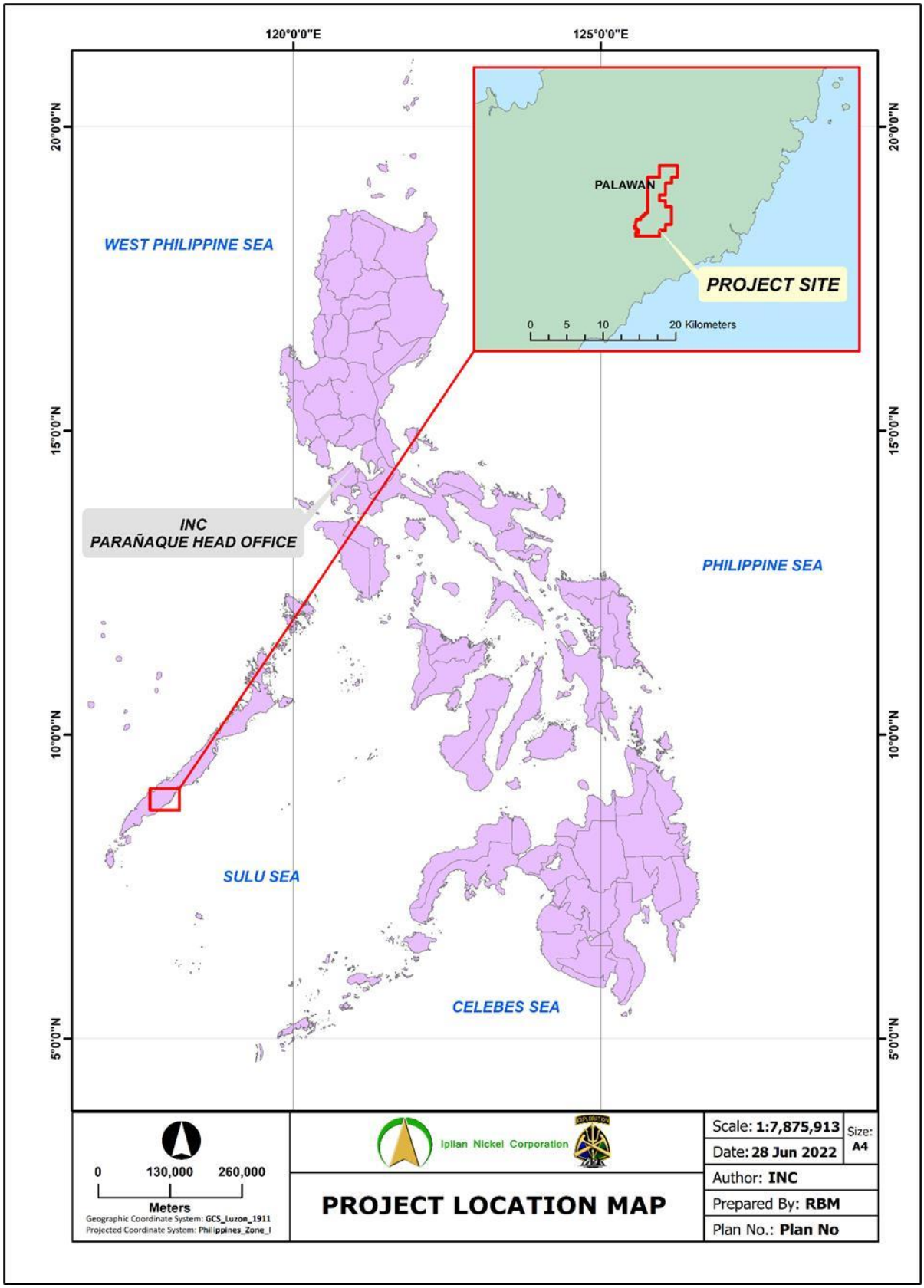


Figure 1-Project Location Map – Regional

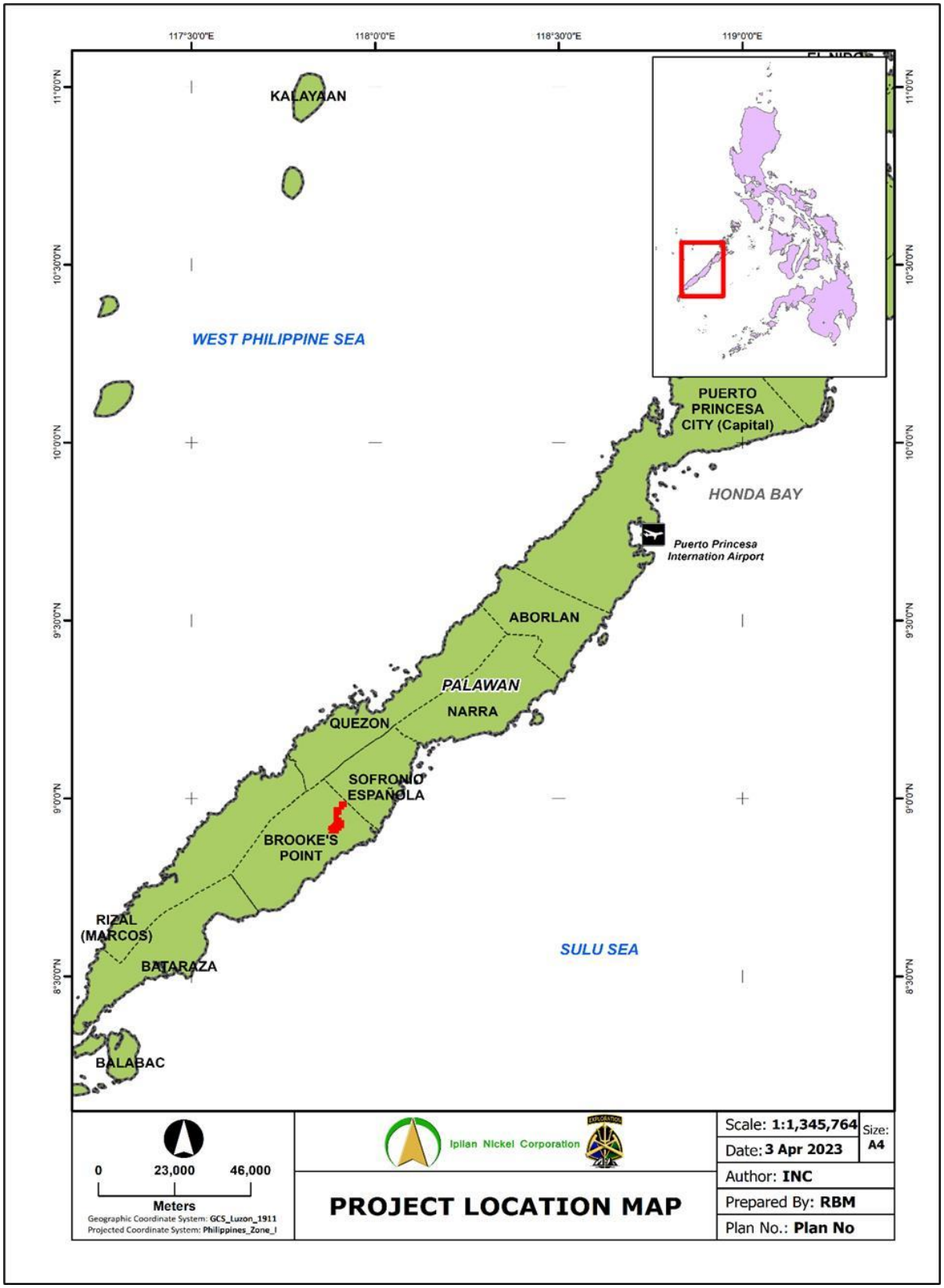


Figure 2- Project Accessibility Map

Table 1. INC-CNMEC MPSA Technical Description

Corner	Latitude	Longitude
1	8°54'34.236"	117°54'30.544"
2	8°54'34.236"	117°54'03.880"
3	8°54'07.570"	117°54'03.880"
4	8°54'07.570"	117°52'17.210"
5	8°54'24.240"	117°52'17.210"
6	8°54'24.240"	117°52'31.260"
7	8°54'34.240"	117°52'31.260"
8	8°54'34.240"	117°52'21.260"
9	8°54'44.240"	117°52'21.260"
10	8°54'44.240"	117°52'11.260"
11	8°54'54.240"	117°52'11.260"
12	8°54'54.240"	117°52'17.210"
13	8°55'14.240"	117°52'17.210"
14	8°55'14.240"	117°52'20.540"
15	8°55'24.240"	117°52'20.540"
16	8°55'24.240"	117°52'40.540"
17	8°55'34.240"	117°52'40.540"
18	8°55'34.240"	117°52'50.540"
19	8°55'44.240"	117°52'50.540"
20	8°55'44.240"	117°53'00.540"
21	8°55'54.240"	117°53'00.540"
22	8°55'54.240"	117°53'10.540"
23	8°56'47.570"	117°53'10.540"
24	8°57'14.240"	117°53'10.540"
25	8°58'34.240"	117°53'10.540"
26	8°58'34.240"	117°54'03.870"
27	8°59'27.570"	117°54'03.870"
28	8°59'27.570"	117°55'23.870"
29	8°58'34.240"	117°55'23.870"
30	8°58'34.240"	117°54'57.240"
31	8°58'07.570"	117°54'57.240"
32	8°58'07.570"	117°54'30.530"
33	8°57'14.240"	117°54'30.530"
34	8°57'14.240"	117°54'03.960"
35	8°56'47.570"	117°54'03.960"
36	8°56'47.570"	117°54'30.544"
37	8°56'20.910"	117°54'30.544"
38	8°56'20.910"	117°54'57.200"
39	8°55'00.910"	117°54'57.200"
40	8°55'00.910"	117°54'30.544"

The MPSA No. 017-93-IV granted to Celestial Nickel Mining and Exploration Corporation (CNMEC) on 10 April 2000 covering an area of 2,961 hectares, which is valid for 25 years (until 2025) and renewable for an additional 25 years, covers the Project. CNMEC then entered into a life of mine Operating Agreement with Ipilan Nickel Corporation (INC) on 19 January 2005.

INC conducted extensive exploration on the tenement from August 2006 to December 2009 consisting of reconnaissance to detailed mapping, test pitting, layout of traverse lines, test drilling to resource definition drilling and geotechnical drilling.

Table 2. Estimated Barangay Land area within MPSA and Actual Area to be Mined

Barangay	Land Area within MPSA (Hectares)	Land Area within MPSA (%)	Land to be Mined (Hectares)	Land to be Mined (%)
Calasaguen	728.14	24.6	0	0
Maasin	1,522.39	51.4	210.39	81
Mambalot	660.73	22.3	49.61	19
Ipilan	50.51	1.7	0	0
Total	2,961.77 [1]	100.0	260.0	100

[1] Refer to the Approved Survey Plan in Annex 1.

2. SEP Clearance

While the Environmental Clearance Certificate (ECC) recognizes the MPSA area to cover the 2,835.06 hectares, however based on the Terms and Conditions stipulated in the Strategic Environmental Plan (SEP) Clearance issued by the Palawan Center for Sustainable Development (PCSD) the initial mining operation and development shall only be confined in the area comprising of 2,307.06 hectares or within technical description presented in Table 3. Technical Description of Initial Mining Area Allowed in SEP Clearance while Figure 2 shows the Environmentally Critical Area Network (ECAN) Zones with the MPSA.

Table 3. Technical Description of Initial Mining Area Allowed in SEP Clearance

Corner	Longitude	Latitude	Corner	Longitude	Latitude
1	117° 53' 10.54"	8° 57' 27.40"	25	117° 54' 57.20"	8° 56' 20.91"
2	117° 53' 20.81"	8° 57' 39.53"	26	117° 54' 57.20"	8° 55' 0.91"
3	117° 53' 33.66"	8° 57' 39.80"	27	117° 54' 30.54"	8° 55' 0.91"
4	117° 53' 40.22"	8° 57' 32.34"	28	117° 54' 30.54"	8° 54' 34.23"
5	117° 53' 47.10"	8° 57' 34.34"	29	117° 52' 3.88"	8° 54' 34.23"
6	117° 53' 44.79"	8° 57' 40.06"	30	117° 52' 3.88"	8° 54' 7.57"
7	117° 53' 55.83"	8° 57' 8.32"	31	117° 52' 17.21"	8° 54' 7.57"
8	117° 54' 11.39"	8° 57' 18.02"	32	117° 52' 17.21"	8° 54' 24.24"
9	117° 54' 20.65"	8° 57' 28.49"	33	117° 52' 21.26"	8° 54' 24.24"
10	117° 54' 24.68"	8° 57' 23.62"	34	117° 52' 21.26"	8° 54' 44.24"
11	117° 54' 40.20"	8° 57' 40.29"	35	117° 52' 11.26"	8° 54' 44.24"
12	117° 54' 36.37"	8° 57' 44.02"	36	117° 52' 11.26"	8° 54' 54.24"
13	117° 54' 11.23"	8° 57' 16.14"	37	117° 52' 17.21"	8° 54' 54.24"
14	117° 54' 5.36"	8° 57' 27.57"	38	117° 52' 17.21"	8° 55' 14.24"
15	117° 54' 23.87"	8° 57' 27.57"	39	117° 52' 20.54"	8° 55' 14.24"
16	117° 54' 36.37"	8° 57' 34.24"	40	117° 52' 20.54"	8° 55' 24.24"
17	117° 54' 57.24"	8° 57' 34.24"	41	117° 52' 40.54"	8° 55' 24.24"
18	117° 54' 57.24"	8° 57' 7.57"	42	117° 52' 40.54"	8° 55' 34.24"
19	117° 54' 30.53"	8° 57' 7.57"	43	117° 52' 50.54"	8° 55' 34.24"
20	117° 54' 30.53"	8° 57' 14.24"	44	117° 52' 50.54"	8° 55' 44.24"
21	117° 54' 3.96"	8° 57' 14.24"	45	117° 53' 0.54"	8° 55' 44.24"
22	117° 54' 3.96"	8° 57' 47.57"	46	117° 53' 0.54"	8° 55' 54.24"
23	117° 54' 30.54"	8° 57' 47.57"	47	117° 53' 10.54"	8° 55' 54.24"
24	117° 54' 30.54"	8° 57' 20.91"	48	117° 53' 10.54"	8° 57' 27.40"

Table 4. ECAN Zones with MPSA

ECAN Zones	ECAN ZONE within MPSA (Hectares)	Percentage (%)
Core Zone	286.40	9.67
Restricted Use Zone	301.50	10.18
Controlled Use Zone	1,664.51	56.2
Traditional Use Zone	702.53	23.72
Multiple Use Zone	6.81	0.23
Total	2,835.06	100

The remaining area covering 528 hectares with the technical description shown in Table 5 can be subjected to mining operation only upon submission to and prior approval by the PCSD of an in-depth (i.e., ecological and socio-economic) study and cost-benefit analysis for the area, the result of which must show that the net benefit from mining is far greater than the current resource/land use. Map of the SEP conditional area is presented in Figure 3.

Table 5. Technical description of the conditional 528 hectares based on the approved SEP.

Corner	Longitude	Latitude	Corner	Longitude	Latitude
1	117° 53' 10.54"	8° 57' 27.20"	9	117° 54' 20.65"	8° 58' 28.49"
2	117° 53' 20.81"	8° 57' 39.53"	10	117° 54' 24.68"	8° 58' 23.62"
3	117° 53' 33.66"	8° 57' 39.80"	11	117° 54' 40.20"	8° 58' 40.29"
4	117° 53' 40.22"	8° 57' 32.34"	12	117° 54' 36.37"	8° 58' 44.02"
5	117° 53' 47.10"	8° 57' 34.34"	13	117° 55' 11.23"	8° 59' 16.14"
6	117° 53' 44.79"	8° 57' 40.08"	14	117° 55' 5.36"	8° 59' 27.57"
7	117° 53' 55.83"	8° 57' 8.32"	15	117° 55' 3.87"	8° 58' 34.24"
8	117° 54' 11.39"	8° 57' 18.02"	16	117° 53' 10.54"	8° 58' 34.24"

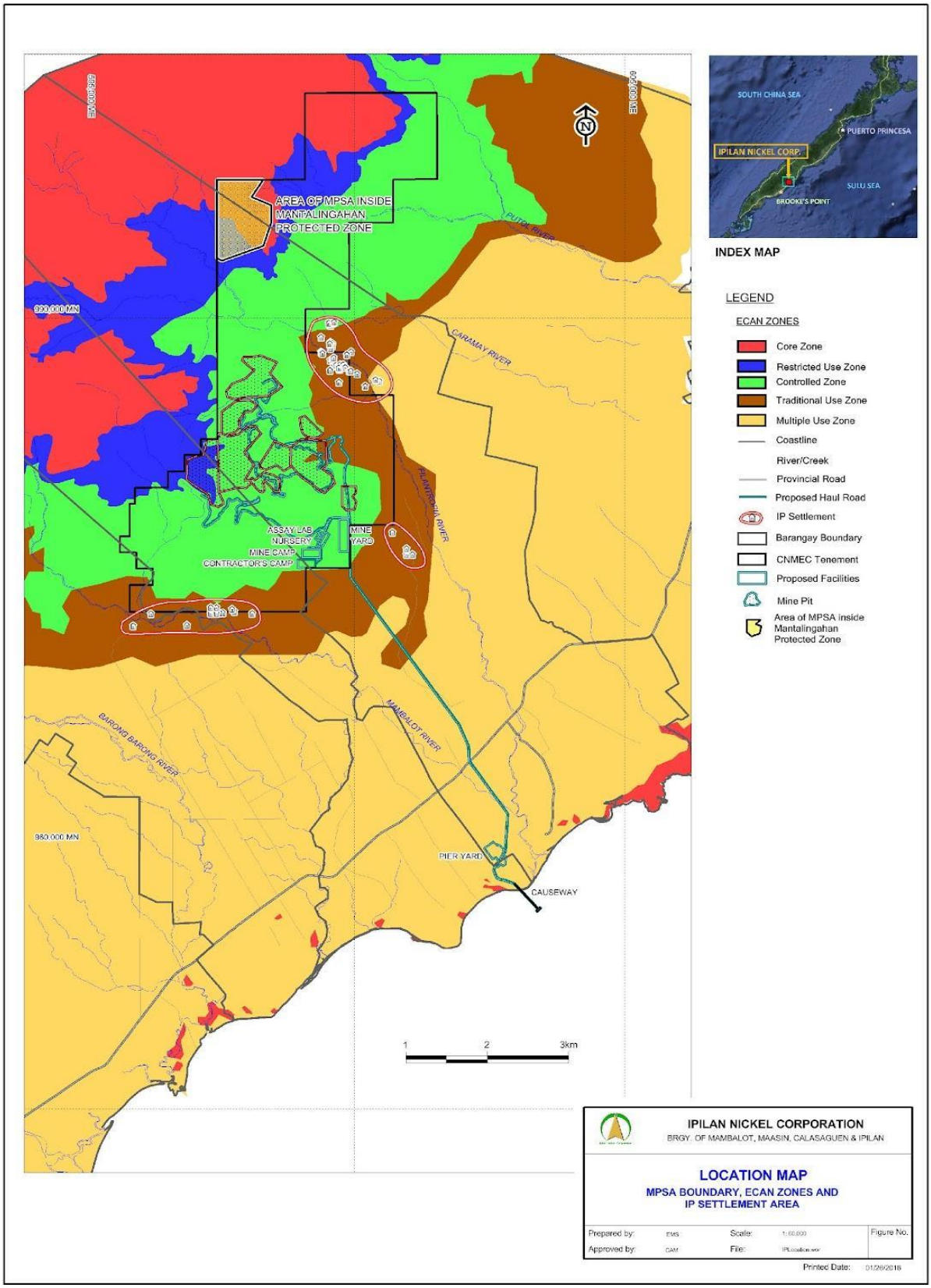


Figure 3- Map Showing MPSA Tenement, ECAN Zonation and IP Settlement Area

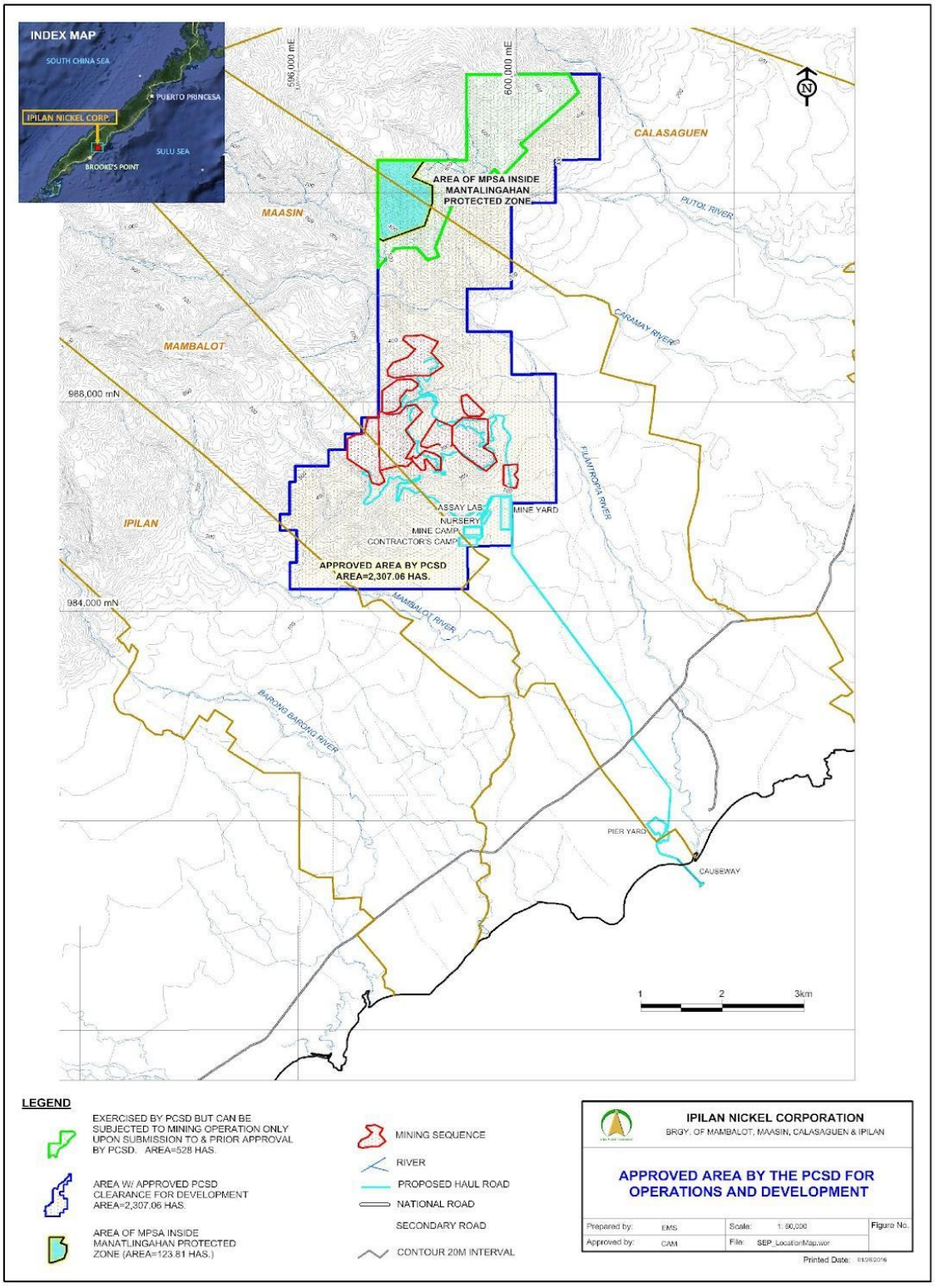
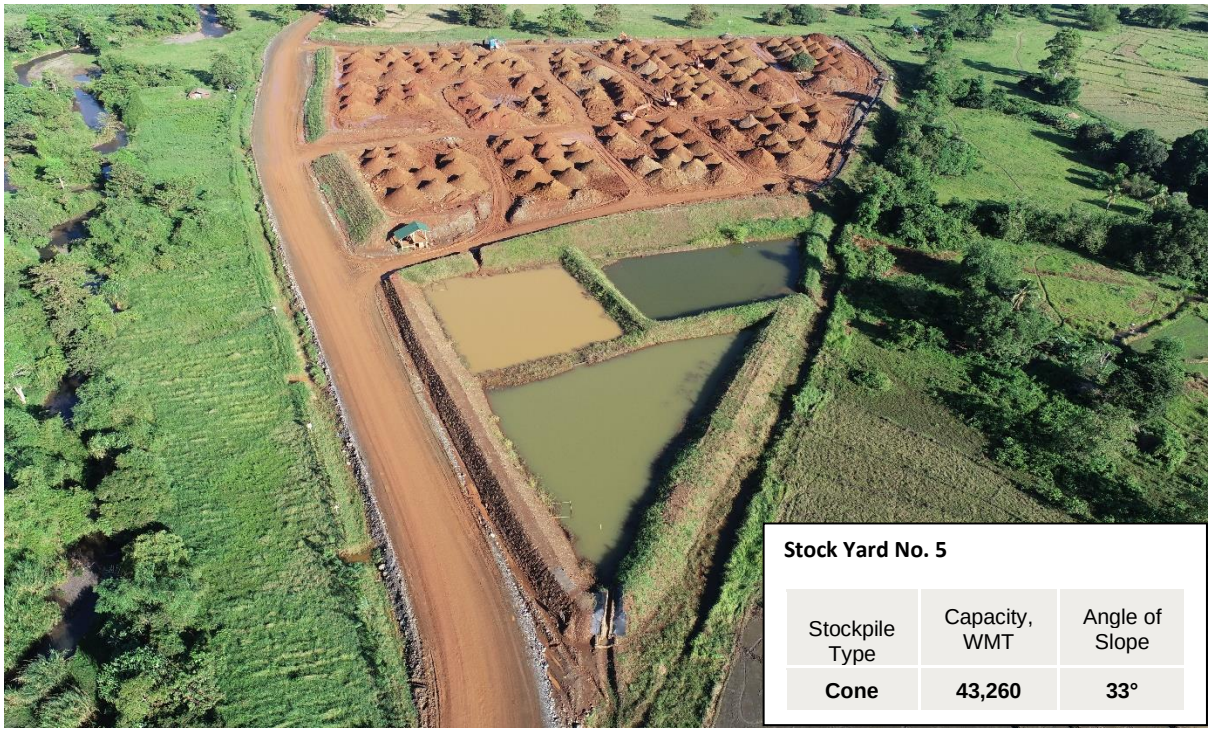


Figure 4- MPSA Tenement with PCSD Approved Mining Area for Mining and 528 hectares Excised Area

3. Photographs and Status of the Project Site

Figure 5- Arial photograph of mine pit (as of November 2023)

Figure 6- Arial photograph of mine pit loading point (as of November 2023)



Stock Yard No. 5

Stockpile Type	Capacity, WMT	Angle of Slope
Cone	**43,260**	**33°**

Figure 7- Arial photograph of Stock Yard No. 5 (as of November 2023)

Stock Yard No. 4

Stockpile Type	Capacity, WMT	Angle of Slope
Cone	**21,000**	**33°**

Figure 8- Arial photograph of Stock Yard No. 4 (as of November 2023)

Figure 9- Arial photograph of Stock Yard No. 3 (as of November 2023)

Figure 10- Arial photograph of Stock Yard No. 2 (as of November 2023)

Figure 11- Arial photograph of Stock Yard No. 1A and 1B (as of November 2023)

Figure 12- Arial photograph of INC Mine Camp (as of November 2023)

4. Land Classification, Land Use, and Slope Class

Land Classification within the MPSA Area

Based on the Land Classification Map from DENR (Figure 13), out of the 2,961.77 hectares, 2,951.11 or 99.64% of the MPSA area is classified as forestland and 10.66 hectares or 0.36% is Alienable and Disposable (A&D). Please refer to Table 6.

Table 6. Land Classification within MPSA Area

Land Classification Area	***Land Classification within MPSA (Hectares)***	***Land Classification within MPSA (%)***
Forest Land	2,951.11	99.64
Alienable & Disposable	10.66	0.36
Total	**2,961.76**	**100.00**

Land Use within the MPSA Area

The existing land use within the MPSA area is classified as restricted use forest land and controlled forest land. Based on the Existing General Land Use shown in Table 7, a total of 613.68 hectares or 20.72% is “Restricted Use Forest Land” and 2,348.09 hectares or 79.28% is within “Controlled Use Forest Land

Table 7. Existing Land Use within the MPSA Area

Land Use Area	***Land Use Area within MPSA (Hectares)***	***Land Use Area within MPSA (%)***
Restricted Use Forest Land	613.67	20.72
Controlled Use Forest Land	2,348.09	79.28
Total	**2,961.76**	**100.00**

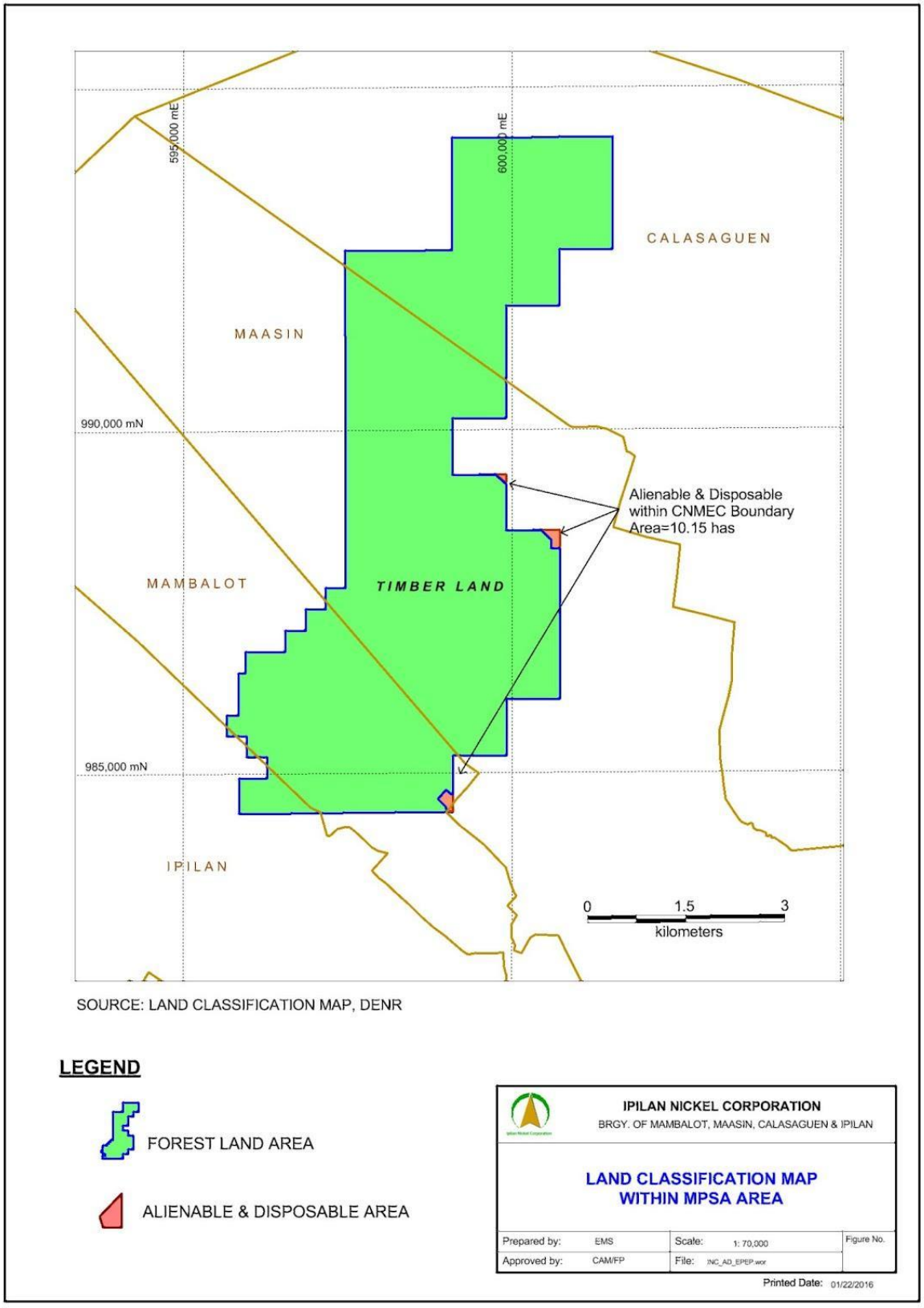


Figure 13- Land Classification Map within INC's MPSA

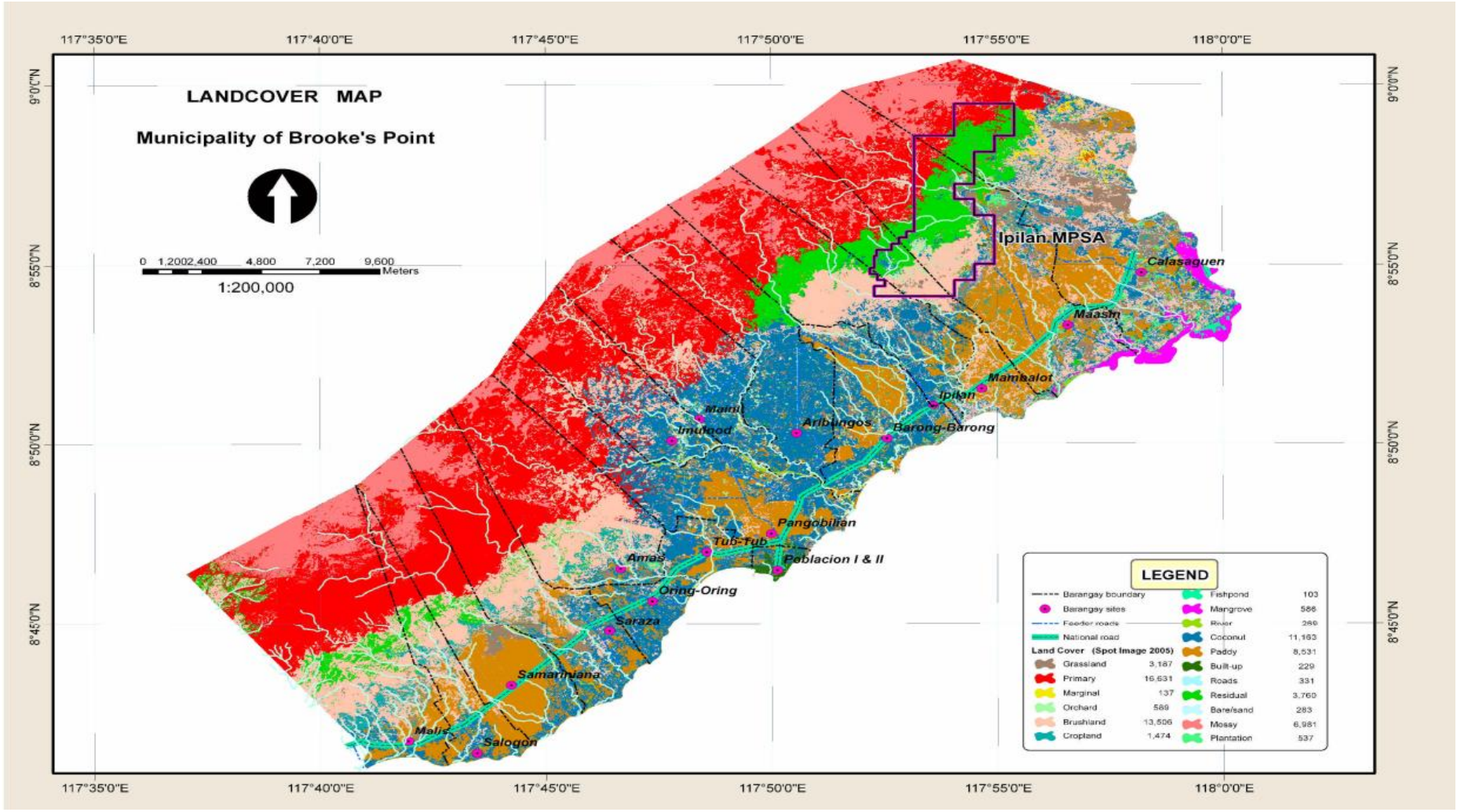


Figure 14- Land Cover/Use Map of Brooke's Point Palawan

Slope Class within the MPSA Area

The slope class within the MPSA is shown in Table 8 and Figure 14. Based on the said map, 16.92% of the MPSA area has a slope of 50% and above while 61.52% or 1,744.21 have a slope from 0 to 36.

Table 8. Slope Class within MPSA Area

Slope Class	Slope Class Area within MPSA (Hectares)	Slope Class Area within MPSA (%)
0-3	229.24	7.74
3-8	300.91	10.16
8-18	303.28	10.24
18-36	988.64	33.39
36-50	638.56	21.56
50 % and above	501.13	16.92
Total Area	2,961.76	100.00

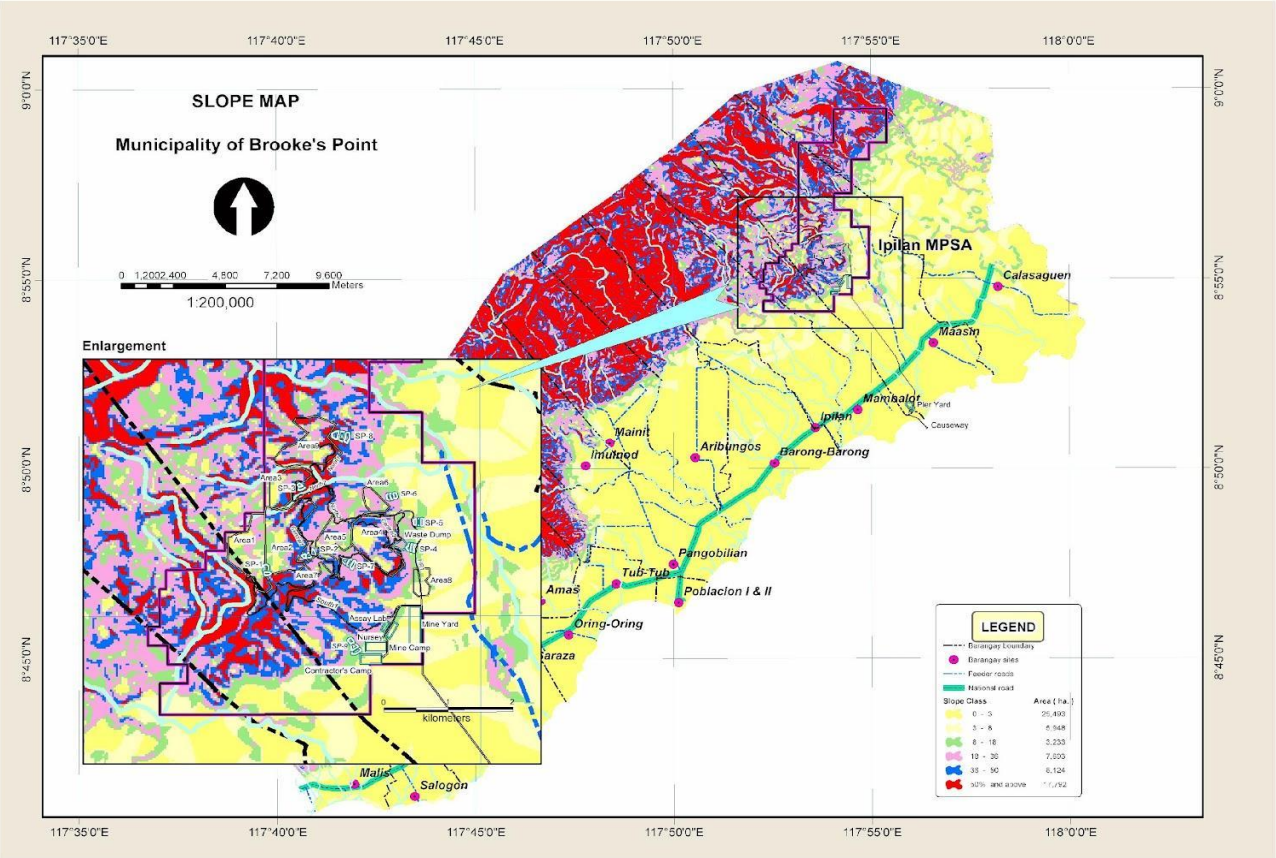


Figure 15- Slope Map within MPSA

5. Estimated Capital Cost

The projected capital cost to be incurred for 2024 is placed at PHP 330,370,906 million or equivalent to US$ 6,117,979.74 million at an exchange rate of PHP 54.00 per US$. This includes the capital costs for exploration, mine development, mining rights acquisition, equipment, engineering works, working capital and other capital costs.

Table 9. Estimated Capital Costs to be Incurred

Year	**2024**
Equipment and Fixtures	93,886,828
Building, Structures and Road Network	94,794,178
Exploration Drilling	22,800,000
Development and Stripping	67,742,271
Environmental, Safety and Health Works	33,147,628
Sustaining Capital	18,000,000
Total, PHP	330,370,906

Commodity

The current product specifications which will be marketed to China, are as follows:

Table 10. Marketable Ore and Waste Specification

Ore Type	Grade Specifications
Low Grade Nickel- High Iron Ore (LGHF)	<1.10% Ni and >=47% Fe
Low Grade Nickel-Medium Iron Ore (LGMF)	>=1.10% Ni to <1.40% Ni and >=30% to <47% Fe
Low Grade Nickel- Low Grade Iron Ore (LGLF)	>=1.10% Ni to <1.40% Ni and <30% Fe
Medium Grade Nickel- Medium Iron Ore (MGMF)	>=1.40% Ni to <1.70% Ni and >=30% Fe
Medium Grade Nickel- Low Iron Ore (MGLF)	>=1.40% Ni to <1.70% Ni and <30% Fe
High Grade Nickel Ore (HG)	>=1.70% Ni and regardless % Fe
Waste- Limonite (WL)	<1.10% Ni and >=30% Fe
Waste- Saprolite (WS)	<1.10%Ni and <30% Fe
Waste (WB)	All lithology=B

6. 2024 Production Target

The project's allowed production capacity is one (1) million dry metric tons of ore per annum, roughly 1.5 million wet metric tons of ore with moisture content ranging from 35-36%. With an annual operating day of 160 days, ore production target roughly corresponds to 9,000-10,000 WMT per day and a combined ore and waste material volume of 12,000-13,000 WMT at an average waste to ore ratio of 0.41. Table 11**,** Table 12**,** and Table 13 shows the material specifications and grade range of shippable materials and the estimated daily, **monthly, quarterly, and annual movement.**

Table 11. 2024 Quarterly Material Movement

ORECLASS	MATERIAL	Ni	Fe
L1	LGHF	<1.10	>=45
L2	LGMF	>=1.10; <1.40	>=30
L3	MGMF	>=1.40; <1.60	>=30
S1	LGLF	>=1.10; <1.40	<30
S2	MGLF	>=1.40; <1.60	<30
S3	HG	>=1.60; <1.80	REGARDLESS
S4	SHG	>=1.80	REGARDLESS
WL1	WL1	<1.0	>=30; <45
WL2	WL2	>=1.0; <1.10	>=30; <45
WS1	WS1	<1.0	<30
WS2	WS2	>=1.0; <1.10	<30

Table 12. Annual Material Movement

Material	*WET METRIC TONNES @ 35% MOISTURE CONTENT*
HG	306,136
LGHF	32,924
LGMF	24,472
LGLF	437,414
MGMF	91
MGLF	698,963
ORE	1,500,000
WASTE	481,096
W:O	0.32

Table 13. 2024 Quarterly Material Movement

	2024-1Q	2024-2Q	2024-3Q	2024-4Q	Total
Material	***WET METRIC TONNES @ 35% MOISTURE CONTENT***				
HG	91,841	68,881	70,411	75,003	306,136
LGHF	9,877	7,408	7,572	8,066	32,924
LGMF	7,342	5,506	5,629	5,996	24,472
LGLF	131,224	98,418	100,605	107,166	437,414
MGMF	27	20	21	22	91
MGLF	209,689	157,267	160,761	171,246	698,963
ORE	450,000	337,500	345,000	367,500	1,500,000
WASTE	144,329	108,247	110,652	117,869	481,096
W:O	0.32	0.32	0.32	0.32	0.32

7. Mineral Reserve

Based on the PMRC compliant report as of ending 31 December 2022, the Mineral Reserves of the Maasin 1 Pit Deposit is at 35.8 million wet metric tons at 1.33% Ni and 23.22% Fe and is further distributed as follows:

Table 14. Mineral Reserves Statement as of 31 December 2022 by Category

Category	**Tonnage/Volume**	**Grade/Assay**	**Grade/Assay**
	WMT	Primary Ore	Secondary/Associated Ore/s
Proved	33,593,508	1.33% Ni	24.44% Fe
Probable	2,218,500	1.31% Ni	19.90% Fe
TOTAL	35,812,008	1.33% Ni	23.22% Fe

Average grade of ore for each mineral commodity

Table 15. Mineral Reserves Statement as of 31 December 2022 per Material

Classification	**Proved**			**Probable**		
Material	**WMT**	**%Ni**	**%Fe**	**WMT**	**%Ni**	**%Fe**
HG	3,577,390	1.78	14.79	203,227	1.78	13.83
LGHF	1,774,174	0.94	49.3	26,014	0.99	48.16
LGMF	7,221,243	1.18	43.59	374,693	1.18	42.86
LGLF	11,494,837	1.21	14.46	1,126,160	1.2	14.24
MGMF	1,014,391	1.43	41.86	26,963	1.41	40.46
MGLF	8,511,473	1.48	14.54	461,443	1.49	14.95
ORE	33,593,508	1.33	23.44	2,218,500	1.31	19.9

The resource estimate cut-off grade is based lower bounds of the cut-off grade to determine maximum profitability of the project. Measured Resource were classified into Proven and Probable reserves based on the characteristic (Ni%, Fe%, Co%, etc.) and location of the ore with respect to the pit design to achieve project viability and marketability.

Table 16. Cut-off grade

Ore Material	Grade Cut-off
Low Grade Nickel- High Iron Ore (LGHF)	<1.10% Ni and >=47% Fe
Low Grade Nickel-Medium Iron Ore (LGMF)	>=1.10% Ni to <1.40% Ni and >=30% to <47% Fe
Low Grade Nickel- Low Grade Iron Ore (LGLF)	>=1.10% Ni to <1.40% Ni and <30% Fe
Medium Grade Nickel- Medium Iron Ore (MGMF)	>=1.40% Ni to <1.70% Ni and >=30% Fe
Medium Grade Nickel- Low Iron Ore (MGLF)	>=1.40% Ni to <1.70% Ni and <30% Fe
High Grade Nickel Ore (HG)	>=1.70% Ni and regardless % Fe

8. Nickel Mining Process

The mining operations will solely employ an open cut (contour) block mining method using conventional backhoes (1.0 to 2.0 cubic meter) and rear dump trucks (20-40 tons). Benches of three (3) meters high and at least 5 to 20 meters wide will be established to provide greater flexibility and ore selectivity of mining. Topsoil is removed first using a bulldozer and then placed on the buffer zone area or in a stockpile prior to placement in a mined-out parcel. The first step is to advance the extraction of the overburden above the bench to provided sufficient room on the lower bench for the truck to safely turn and park for loading. For the 3 m benches, the batter angle is not to exceed to 60° and the overall slope angle should not be steeper than 40°. The stripped overburden is delivered to the waste dump. The main haul roads are 12 to 16 meters in width and a gradient of 10% to 14%. Safety berms are also established with 1.5 meters in height and 2 meters in width. Drainage canals are also present in a triangular design with minimum dimensions of 1-meter depth, 2 meters base and an apex angle of 90 degrees. The Run-of-Mine (ROM) ore will be mined by one (1) meter flitches and loaded into rear dump trucks are delivered either directly into barges/LCTs or to the designated stockyards.

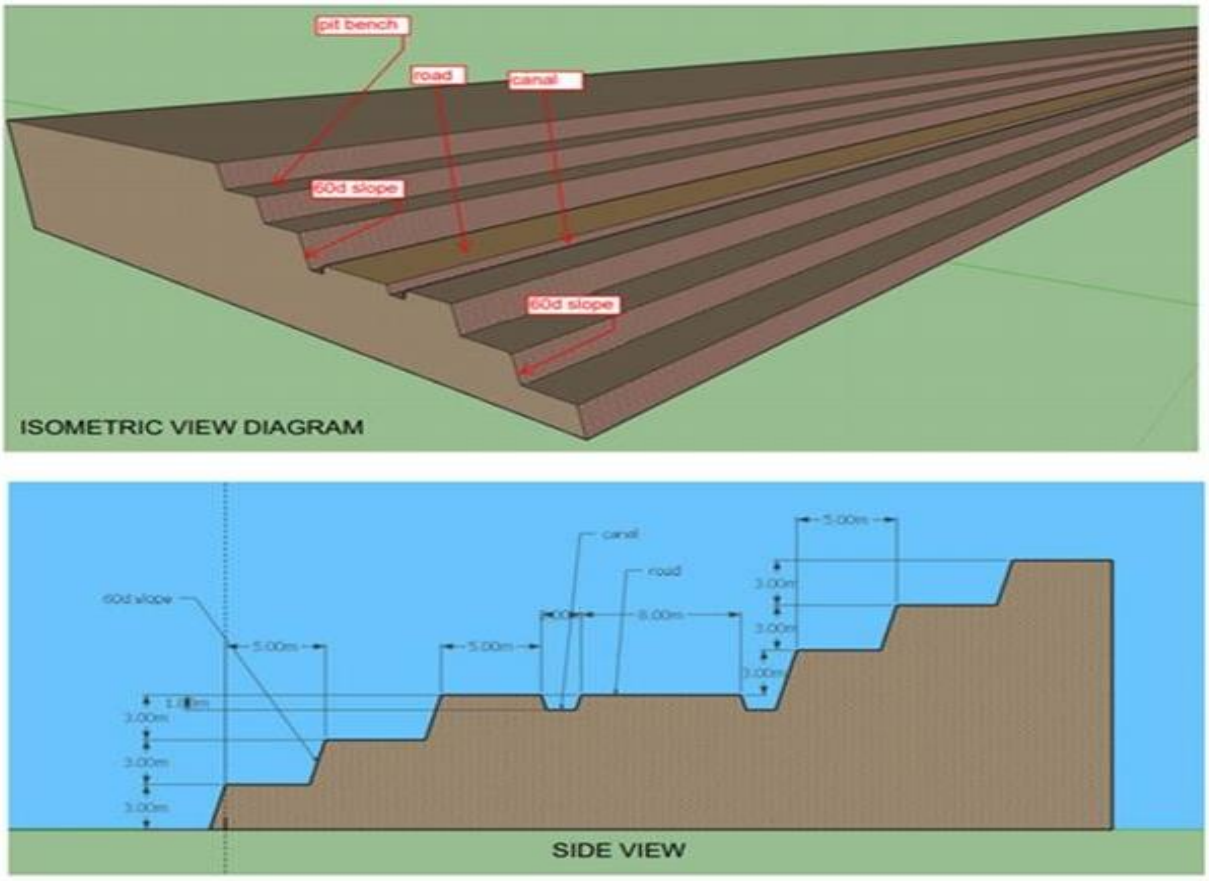


Figure 16- Mine Design Parameters

Description of mining process

Topsoil Recovery and Overburden Stripping

Topsoil is removed first using a bulldozer and then placed on the buffer zone area or in a stockpile prior to placement in a mined- out parcel. Overburden materials, i.e., low-grade limonite with Ni content less than the designated mine Ni cut-off grade, are first extracted (by contour benching, at an average bench height of 3 m) using excavators in backhoe mode and 15-t trucks. The first step is to advance the extraction of the overburden above the bench to provide sufficient room on the lower bench for the truck to safely turn and park for loading. For the 3 m benches, the batter angle is not to exceed 60º and the overall slope angle should not be steeper than 40º. The stripped overburden is delivered to the waste dump.

Bench-face channel sampling will be undertaken to help direct the dump trucks to the correct “grade” stockpiles. The ore is transported by trucks to the drying stockpiles. Stockpiles of a certain Ni grade range are maintained to provide operational efficiency and to allow final ore blending prior to shipment according to customer specifications.

Breakage of Ore and Waste

There is limited rock breakage to be done in the mining of the laterite except on oversize boulders found in the saprolite and base rock contacts. The laterite material will be loosened up by backhoes and bulldozers whenever necessary. The limonite could be freely dug, scoop and loaded by backhoes. In some cases, mechanical rock breakers will be used for boulders.

Loading of Ore and Waste

Backhoes with 0.8 to 1.00 cubic meter capacity will be used to break and load the laterite and loaded into 13-tonne to 20-tonne capacity dump trucks for transporting to the ore drying stockpiles. Bench-face channel sampling will be undertaken to help direct the dump trucks to the correct “grade” stockpiles. Likewise drilling of in pit grade control holes will also be used for the same purpose. Stockpiles of a certain Ni value range are maintained to provide operational efficiency, as well as, allow final ore blending prior to shipment, according to customer specifications.

Hauling of Ore and Waste

The mined laterite is transported by dump trucks from the mine site to an intermediate stockpile, then to the coastal stockpile area, adjacent to the temporary causeway. This is a road distance of approximately 16 kilometers. The ore is formed into large stockpiles based on grade criteria specified by customers.

Loading at the Causeway or Pier Site

The dried nickel ore is transported to the pier site, where it is loaded onto ships for export. The ore is loaded into large shipping containers or bulk carriers, which are then transported to other countries for further processing.

The brief process flow of the nickel ore mining conducted by Ipilan Nickel Corporation is summarized in Figure 17.

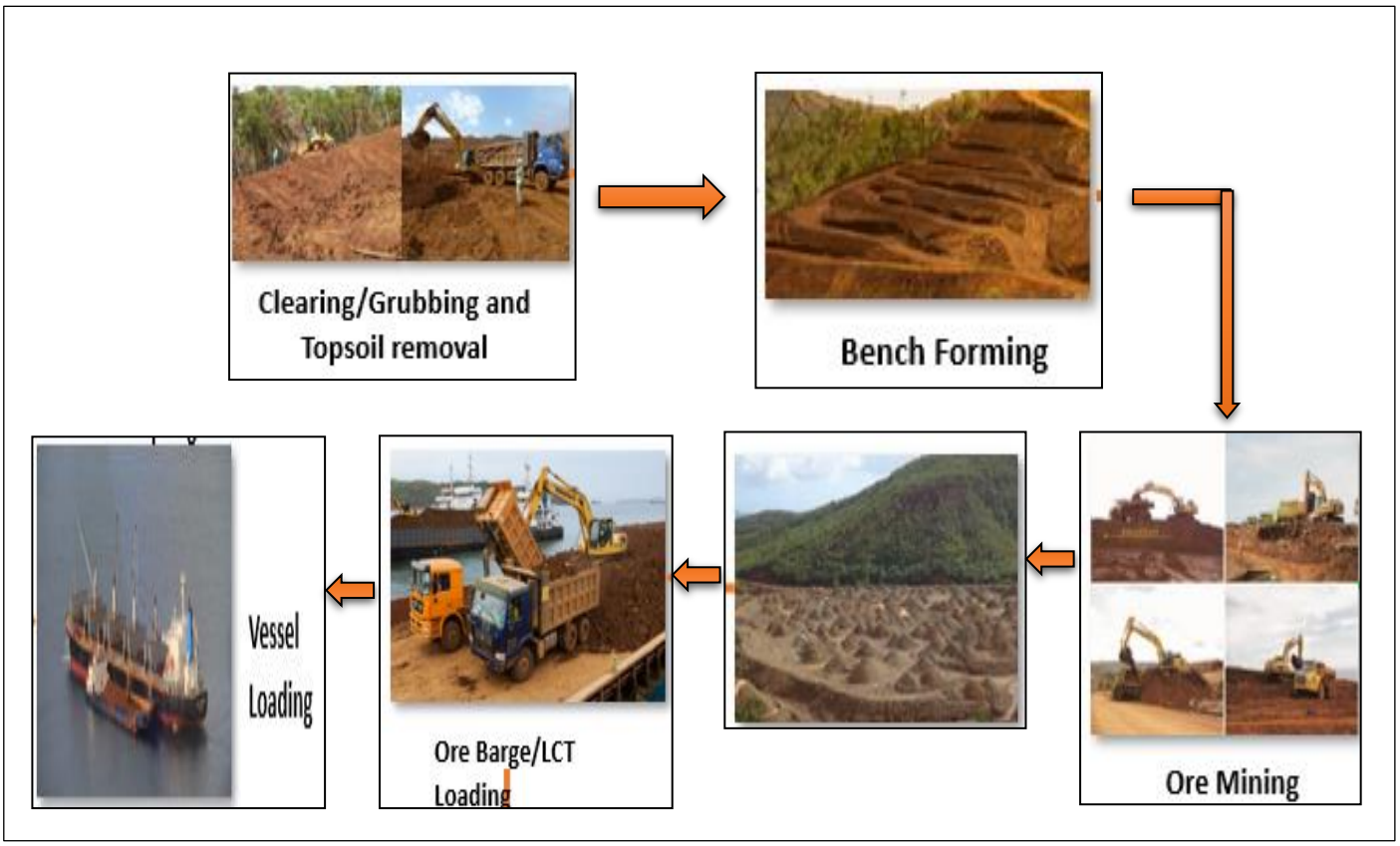


Figure 17- INC Mining Operation Activities

Active mine sites/areas

Refer to **Annex 2** for the 1:10,000 location map with the corresponding technical description showing the areas of active mines sites/areas and other facilities including pier stockyards. Secondary stockyards are located near the causeway to allow for quick loading onto transport barges. Approximately 250, 000 WMT of ore can be stockpiled inside the SY-001, SY-002, and SY-003

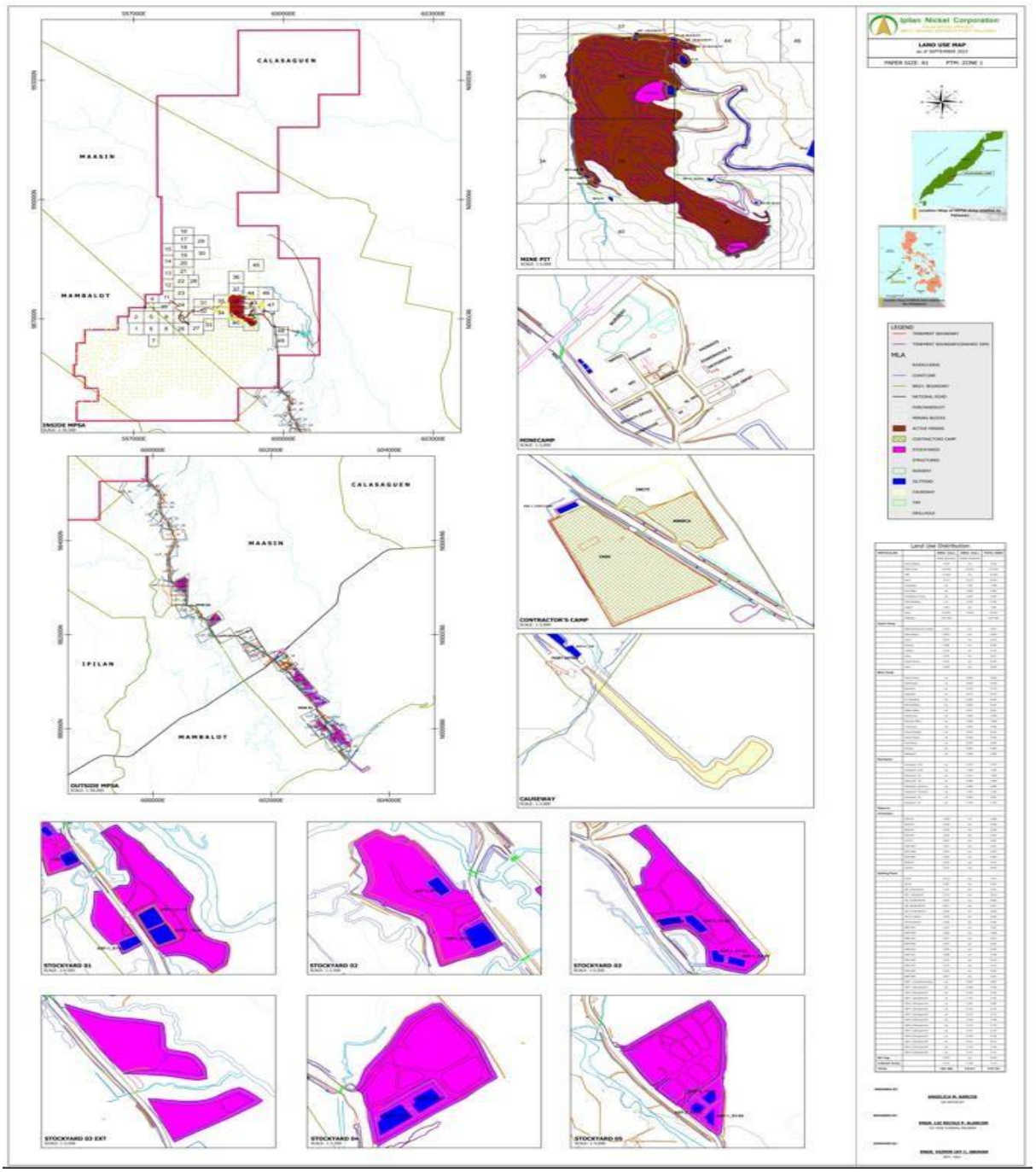


Figure 18- General Location of Active Mining Areas and Other Facilities

9. Access/ Transportation

Road (Preference/alternates)

The Project Area is around 177 km by national road on the southeastern margin of the island, from Puerto Princesa City going to Brgy. Maasin, Brooke's Point, and can be reached by public transport via a well-paved, all-weather national highway with a travel time of approximately 3 to 4 hours.

Air access (Origin and Destination Points)

Daily scheduled flights are serviced by several commercial domestic flights from Manila and Cebu City to Puerto Princesa City. Available commercial cargo vessels and ferry boats from various Philippine provinces are also an alternative means to the province of Palawan.

Shipping (preferred port facilities and alternates)

For ore exports and sales, the project is currently using its own causeway facility. This will include a coastal stockpile and a causeway situated in Barangay Maasin, Brooke's Point. Inbound goods such as heavy equipment, generators, and construction supplies, will be barged in via the causeway.

10. Power Supply Requirements and Alternatives

The project relies on electricity supplied by the local power provider, Palawan Electric Cooperative (PALECO). The power requirement of the project is sourced from the 10MVA substation located in Brgy. Ipilan, Brooke's Point, about 6 km away from the mine camp and port area facilities. Power is distributed by 13.8 kV feeders through overhead transmission lines to the various distribution transformers inside the mine camp. The total installed power is 675 KVA which distributes to the three different powerhouses located at the mine camp and port area at 300kva-13.8kv/230v, 300kva-13.8kv/440v and 75kva- 13.8kv/230v respectively, with an estimated continuous load of 400 KVA.

A total power capacity of 1.925MVA with an estimated continuous load of 1.3MVA is projected in the next year three years of operation with the expansion of various facilities inside the mine camp area.

The power supply requirement of the project will be used to run all electric-powered tools and equipment in the on-site housing, offices, laboratories and machine shops.

In case of power outages, the project has available diesel- powered generators that serve as backup power sources, as follows:

- Assay Laboratory – 2 units 200 KVA where one (1) unit is put on standby for use during peak hours;
- Mine Camp and Office Facilities – 1 unit 200 KVA diesel generator set; and
- Port Office Facilities – 1 unit 200 KVA diesel generator set.

Table 17. Estimated Annual Power Requirement

Year	2024	
Location	KWH	KVA
QAQC Complex	484,336	800
Minecamp Complex	635,691	1,050
Port Complex	72,650	120
Contractors' Area	302,711	500
Total	1,495,388	2,470

11. Mining Equipment

List of Mobile and Fixed Equipment for Development and Construction

The total projected peak production for the year will be 1.0Mdt. With this in mind, INC will require a total loading and hauling fleet of equipment of approximately 65 excavators, 13 loaders and 144 dump trucks.

Table 18. Equipment Requirement for Development & Construction

Activity	Unit Type	Model	Ownership	2024
Compacting	Compactor	BOMAG-BW211D-40/ Volvo SD110-B	Purchased	3
Grading	Grader	Komatsu GD555-5	Purchased	1
Crushing	Aggregate Mobile Crusher	Powerscreen Metrotrak	Purchased	1
Desilting	Hydraulic Excavator	Komatsu PC210LC- 10M0	Purchased	2
Service Vehicles	4x4 Pickup	Toyota Hilux/ Strada/ Fortuner/ Innova	Purchased	17
Personnel Carrier	Shuttle Bus (61cap)	Hino-Assembled	Purchased	3
Personnel Carrier	4x4 Truck	SKW Isuzu	Purchased	11
Dust Suppression	Water Truck	SINOTRUK HOWO371	Purchased	5
Solid Waste Management	Garbage Truck	Converted DT	Purchased	1
Fuel Truck	Fuel Truck 14000L	Isuzu - Converted	Purchased	2

Emergency Preparedness	Fire Truck	SHACMAN 16000L cap	Purchased	1
Medical Emergency	Ambulance	Nissan Urvan	Purchased	1
Support Equipment	Boom Truck	Isuzu - Converted	Purchased	2
Logistics/Warehousing	Utility Vehicle	Mitsubishi L300	Purchased	2
Power Generation	250KVA Diesel Genset	Caterpillar	Purchased	3
Rock Breaking	Breaker Assembly	Komatsu JTHB 210-3	Purchased	1
Flood Lights	Flood lights (Mobile)	1,000V - Diesel Genset	Purchased	4

Table 19. Equipment Requirement for Mining

Activity	Unit Type	Model	Ownership	2024
Loading (Pit)	Backhoe	KOM PC200LC-8	Leased	9
Loading (Receiving)	Backhoe	VOLVO EC290	Leased	2
Loading (Shipment, Limonite)	Backhoe	KOM PC200LC-8	Leased	3
Loading (Shipment, Saprolite)	Backhoe	KOM PC200LC-8	Leased	4
Dozing	Dozer	CAT D6R	Leased	3
Hauling (Pit)	Dump Truck	SINOTRUK HOWO370	Leased	43
Hauling (Shipment)	Dump Truck	SINOTRUK HOWO370	Leased	35
Trans-Shipment	Barge/LCT	2000T Cap	Leased	8

Ore Processing and Assay

- Conventional loader and backhoe equipment will be used to do sorting and segregation (harvesting) of ore whether limonite or saprolite.
- Manual crushing and/or by mechanical breakers will also be used particularly for the higher grade saprolitic ore.
- Dump truck units will be utilized to haul the ore for transferring or barge loading.
- The project is a direct shipping operation (DSO) hence there will be no milling operation.

Table 20. Existing project equipment for mineral processing and assay

Equipment	Unit
Laboratory Oven	2
Desiccator	4
Analytical Balance	3
Hydraulic Press	3
Fusion Machine	2
XRF Machine	3
Ultrasonic Cleaner	2
Hot Plate	1

Radiation Meter	1
pH Meter	1
Dust Collector System	1
Rocklabs pulverizer	3
Jaw Crusher	3
Bico Jaw crusher	1
2-stage roller crusher	4
Mini Roller crusher	2
Roller crusher	1
Fabricated 5-door oven	1
Fabricated 6- door oven	1
Etuves oven	5
IMI fabricated Ring mill	1
Rotap sieve shaker	5
Eversun sieve shaker	1
Flow test Equipment	1
Liquid Limit Equipment	1
Shimadzu Top load balance	4
Riffle Splitter #10	1
Riffle Splitter #20	1
Riffle Splitter #30	1
Rotary Sample Divider	1
Ultrasonic sieve cleaner	1
Weitex 50 kg balance	1

12. Workforce Information

Total Operational Workforce

The project is projected to create employment opportunity for roughly 1,500 regular and seasonal employees both from the company and its contractors. As part of the agreement with the contractor, the company shall require the contractor to give priority on the hiring of qualified local applicants from the Municipality of Brooke's Point. The permanent workforce for the project is as follows:

Table 21. Manpower Requirement of INC for 2024 (Regular Employees)

Office of the Resident Mine Manager	/	OIC Resident Manager	1
	/	Assistant Resident Mine Manager	1
	Subtotal		**2**
Community Relations	/	IEC Officer	1
		CRDO	1
		Documentation Specialist	1
		Community Relations Organizer	1
		IP Coordinator	1
	Subtotal		**5**
Engineering & Technical Services	/	Engineering & Technical Services Manager	1
	Mine Planning, Statistics & Operation Research Section	Mine Planning Engineer	1
		Mine Statistics and Research Operation	1
		Jr. Mine Planning Engineer	1
		GIS Specialist	1
	Mine Survey Section	Mine Surveyor	1
	Mine Development and Services Section	Mine Development & Services Engineer	1
		Mine Development and Services Supervisor	2
	Civil Works Section	Civil Works Supervisor	1
		Jr. Civil Works Supervisor	1
	Electrical Section	Electrical Engineer	1

	Subtotal		**12**
Finance & Accounting	Finance & Accounting	Mine Accountant	1
	Accounting	Cost Clerk	1
		Accounting Staff - Property & Reports	1
		Mine Bookkeeper	1
		Compensation Clerk	1
	Finance	Cashier	1
	Subtotal		**6**
General Admin Services	/	General Admin Services Head	1
	Admin	General Admin Services Supervisor	1
		Cook	1
		Electrician/Facilities Maintenance Crew	1
	IT Support	Technical Support Specialist	1
	Warehouse & Fuel Depot	Warehouse & Inventory Supervisor	1
	Subtotal		**6**
Human Resources	/	HR Supervisor	1
	Compensation and Benefits	Compensation and Benefits Specialist	1
		Compensation and Benefits Generalist	3
	Recruitment	Recruitment Specialist	1
		Recruitment Generalist	2
	Subtotal		**8**

Mechanical & Maintenance	/	Mechanical & Maintenance Department Manager	1
		Maintenance Planner	1
		Maintenance Supervisor	1
	Subtotal		**3**
Mine Environment	/	MEPEO	1
	Biodiversity & Conservation Monitoring	Biodiversity & Conservation Supervisor	1
	Envi Monitoring & Waste Management Monitoring	Envi Monitoring & Waste Management Officer	1
	Plantation Monitoring	Forester	1
	Water and Sediment Monitoring	Water and Sediment Control Supervisor	1
	Environmental Management System	Environmental Management System Officer	1
	Subtotal		**6**
Mine Geology & Grade Control	/	Mine Geology and Grade Control Manager	1
	/	Senior Geologist	1
	Mine Geology Section	Pit Geologist	1
		Jr. Pit Geologist	1
		GIS and Database Supervisor	1
		GIS Operator	1
	Exploration Section	Jr. Exploration Geologist	2
	Stockyard Operation	Grade Control Geologist	1

		Jr. Grade Control Geologist	2
		Grade Control Supervisor	1
		Grade Control Officer	2
	Subtotal		**14**
Mine Operations	/	Mine Operations Manager	1
	Mine Production	Mine Production Supervisor	2
		Jr. Mine Production Supervisor	2
		Mine Production Officer	2
	Road Maintenance	Road Maintenance Supervisor	1
		Road Maintenance Officer	1
	Subtotal		**9**
Port Operations	/	Port Operations Manager	1
		Port Operations Officer	1
	Subtotal		**2**
Mine Security	/	Security Manager	1
		Officer-in-Charge for Security	1
		Intelligence and Investigation Officer	1
	Subtotal		**3**
Quality Assurance & Quality Control	/	Quality Assurance & Quality Control Manager	1
	Testing/Analytical Section	QAQC Chemist	1
		QAQC Chemical Technicians	3

	Sample Preparation Section	QAQC Officer II	1
		QAQC Officer I	3
	Subtotal		**9**
Safety & Health	/	Safety Engineer	1
	/	Jr. Safety Engineer	2
	Loss Control/Traffic Management	Loss Control/Traffic Management Supervisor	1
	Health	Company Nurse	4
	Subtotal		**8**
Total			**92**

Table 22. Manpower Requirement on INC for 2024 (Seasonal Employees)

MINE ENVIRONMENTAL PROTECTION AND ENHANCEMENT OFFICE	/	Environmental Document Clerk	2
		Envi Cost Clerk	1
	Pollution Control Section	GIS Specialist	1
		Saddam Driver	2
		Water Lorry Driver	5
		Water and Sediment Leadman	1
		Envi. Monitoring Leadman	1
		Waste Management Leadman	1
		Manual Desilting/Repair Crew	8
		Envi Monitoring Worker	5

		Waste Management Worker	5
		Street Sweeper	10
	Forestry	Rehabilitation Foreman	2
		Nursery Leadman	3
		Plantation Leadman	1
		Plantation Maintenance Leadman	1
		Nursery Workers	80
	Biodiversity Conservation	Plantation Worker	30
		Plantation Maintenance Worker	20
		Coastal and Natural Resources Foreman	1
		Landscaping Foreman	1
		Terrestrial Resources Worker	10
		Mangrove and Coastal Resource Worker	10
		Landscaping Worker	10
	Subtotal		**211**
ENGINEERING AND TECHNICAL SERVICES DEPARTMENT	/	Service Driver	3
		Data Clerks	3
		Property Custodian	2
	Mine Development and Services Section	MDS Foreman	7
		Mobile Crusher Operator	1
		Excavator Operator	14

		Rock Breaker Operator	2
		Bulldozer Operator	5
		Road Grader Operator	5
		Road Roller Operator	5
		Payloader Operator	2
		Dump Truck Drivers	15
		Saddam Driver	2
		Checkers/Spotter	14
	Mine Survey Section	Survey Foreman	3
		GIS Operator	2
		DGPS Operator	8
		Instrument Man	2
		Rodman/Fore sighter	4
		Survey Aide	17
		Saddam Driver	1
	Mine Civil Works Section	Civil Foreman	2
		Carpenter/Mason	26
		Welder	4
		Plumber	2
		Painter	2
		Saddam Driver	1

		Warehouseman	1
		Helper	22
		Electrical Foreman	1
		Electrician	4
		Aircon Technician	1
		Boom Truck Operator	1
		Technician Helper	1
		Power Tender	8
		Lineman	2
		AutoCAD Operator	1
	Subtotal		**196**
GENERAL ADMINISTRATION SERVICES	Camp Services	Admin Services Coordinator	1
		Administrative Assistant	1
		Admin Services Aide	1
		Company Cook	2
		Kitchen Helper	3
		Laundry Woman	3
		Utility Worker	5
	FLEET SERVICES	Admin Transportation Coordinator	1
		Fleet Services Assistant	1
		Bus Driver	5

		Service Vehicle Driver	23
	MATERIALS MANAGEMENT (Warehouse & Fuel Depot)	Fuel & Depot Coordinator	1
		Materials Management Coordinator	1
		Warehouseman	3
		Fuel Tender	4
		Fuel Truck Driver	2
	IT SUPPORT	IT Network Assistant	0
	Subtotal		**57**
MINE GEOLOGY AND GRADE CONTROL		Statistician	1
		Stockpile Mapper	10
		Data Clerk	10
		Sampling Clerk	16
		Sample Collection Driver	6
		Checker/Spotter	30
		Ore Sampler	60
		Sample Collector	15
		Stockpile Mapping Crew	10
		Stockpile Ore Keeper	20
	GIS and Database Management	Data Clerk/Encoder	1
	Office Works	Office Assistant	1

		R&R Clerk	2
	Mine Geology Section	Pit Lead Sampler	3
		Pit Sampler	25
		Sample Collection Driver	1
	Exploration Section	Geological Mapper	2
		Drill Operator	2
		Assistant Drill Operator	2
		Drilling Watchmen	2
		Core House Sampler	4
		Drilling Crew	14
		Sample Collection Driver	1
	Subtotal		**238**
MINE OPERATIONS DEPARTMENT	Mine Production Section	Mine Production Foreman	4
		Saddam Driver	2
		Pit Ore Checker	30
		Data Clerk	4
		Checker/Spotter	15
	Road Maintenance Section	Road Maintenance Foreman	2
		Data Clerk	1
		Checker/Spotter	15
	Subtotal		**73**

QUALITY ASSURANCE AND QUALITY CONTROL	Testing Section	Lab Assistant II	4
		Lab Assistant I	10
		QAQC Clerk	2
		QAQC Data Encoders	2
	Sample Preparation Section	Sample Prep Leadman	4
		Recorder/Checker	4
		Equipment Operator (Jaw Crusher)	4
		Equipment Operator (Pulverizer)	4
		Equipment Operator (Sieve)	4
		Oven/Moisture Tender	4
		Tml & Liquid Limit Operator	4
		Barge Sampler	12
		Ring Mill Bowl and Pan Washer/ Prep Crew	6
		Sample Prep Crew	80
	Subtotal		**144**
PORT OPERATION DEPARTMENT	Port Section	Port Operation Supervisor	2
		Port Operation Foreman	2
		Vessel Monitoring	4
		Saddam Driver	4
		Water Truck Driver	1

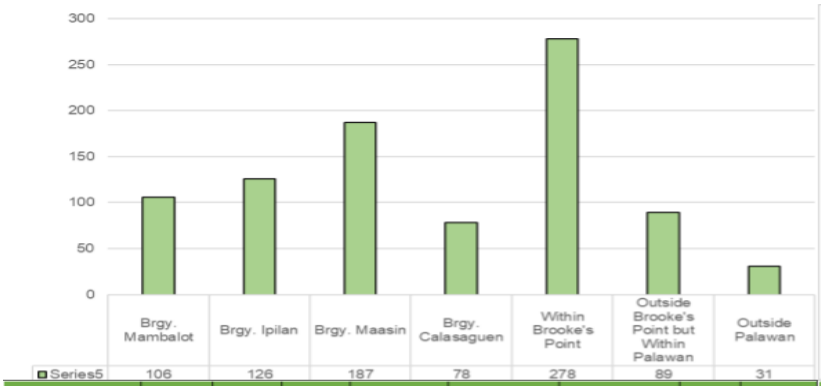
		Laytime Officer	1
		Data Clerk	4
		Fuel Monitoring	2
		Checker / Recorder	8
		Boat Captain	4
		Boat Helper	4
		Barge Ore Keeper	112
	Subtotal		**148**
OFFICE OF THE RESIDENT MINE MANAGER	/	Technical Assistant	1
	Subtotal		**1**
SAFETY AND HEALTH	Safety Section	Safety Inspectors	10
		Fire Truck Driver	2
		Rescue Vehicle Driver	2
		Document Controller	1
		Safety Clerk	1
		Signage Painter	1
		Safety Aide	5
		Traffic Aide	20
	Health	Ambulance Driver	2
	Subtotal		**44**

MECHANICAL AND MAINTENANCE DEPARTMENT	Admin Section	Maintenance Coordinator/Encoder	1
		Maintenance Clerk	1
	Heavy Equipment and Maintenance Section	Senior Mechanic Heavy Eqpt	1
		Junior Mechanic Heavy Eqpt	2
		Helper Mechanic	2
	Light Equipment and Maintenance Section	Senior Mechanic Light Eqpt	1
		Junior Mechanic Light Eqpt	2
		Helper Mechanic	2
	Electrical Maintenance Section	Sr. Auto Electrician & Aircon Technician	1
		Jr. Auto Electrician & Aircon Technician	2
	Welding and Fabrication Section	Senior Welder	1
		Welder	2
	Tire Section	Tireman	3
	Lube Section	Lubeman Mechanic	1
		Lubeman Helper	1
	Warehouse & Tools	Warehouseman & Tool Keeper	1
	Equipment Operators Section	Fuel Truck Operator	1
		Boom Truck Operator	1
		Telehandler Operator	1
	Subtotal		**27**
HUMAN RESOURCES	/	HR Staff	1

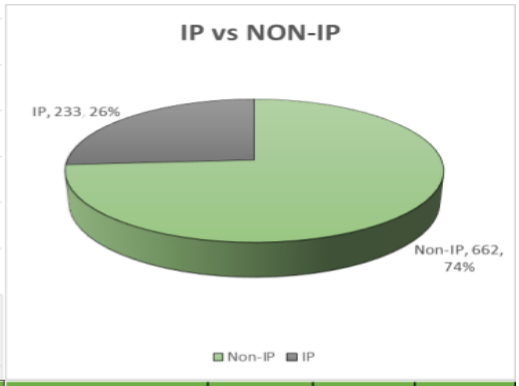
	Subtotal		**1**
SECURITY DEPARTMENT	/	Port Security Inspector(2)	2
		Admin Clerk	1
		Armorer	1
		Office Clerk	1
		CCTV Technician (3)	3
		Drone Operator (2)	2
		Surveillance Officer	1
		Investigator	1
		Data Specialist	1
		Patrol Boat I Boat Captain/Asst Boat Captain	1
		Patrol Boat Ii Boat Operator/Helper	1
	Subtotal		**15**
COMMUNITY RELATIONS		Community Organizer	3
		IP Coordinator	2
	Subtotal		**5**
FINANCE AND ACCOUNTING	/	Accounting Staff	1
	Subtotal		**1**
Total			**1161**

Table 23. Actual Manpower of Ipilan Nickel Corporation as of November 2023

DEPARTMENT	EMPLOYMENT STATUS			
	Regular	Probationary	Seasonal	Project-Based
Mine Geology & Grade Control	5	2	129	0
Mine operations	3	1	48	0
Mine Environment	3	3	194	0
Community Relations	4	1	3	0
Engineering & Technical Services	6	2	79	59
Finance & Accounting	5	0	1	0
General Admin Services	2	1	62	0
Human Resources	2	1	5	0
Mechanical & Maintenance	2	0	17	0
Mine Security	3	0	4	0
Quality Assurance & Quality Control	7	0	109	0
Office of the RMM	1	0	1	0
Port Operations	1	1	105	0
Safety & Health	4	2	31	0
IT Support	1	0	0	0
PCSSC	1	1		
Contractors			590	
Subtotal	*50*	*15*	*1378*	*59*
TOTAL MANPOWER	1,502			



Employment Status	Brgy. Mambalot	Brgy. Ipilan	Brgy. Maasin	Brgy. Calasaguen	Within Brooke's Point	Outside Brooke's Point but Within Palawan	Outside Palawan	Total
Regular	0	1	3	0	5	16	24	49
Probationary	1	0	0	0	3	4	7	15
Seasonal	100	116	162	64	260	68	0	770
Project-Based	5	9	22	14	10	1	0	61
TOTAL	**106**	**126**	**187**	**78**	**278**	**89**	**31**	**895**



Employment Status	IP	Non-IP	Total
Regular	0	49	49
Probationary	2	13	15
Seasonal	216	554	770
Project-Based	15	46	61
TOTAL	**233**	**662**	**895**

Figure 19- Employees Demographic Profile of INC

13. Staff Organization Set-up

See ANNEX 3. INC Table or Organization

B. Development Schedule

In line with INC's plan to expand its mine operations and increase production capacity, the company have embarked on in-fill drilling of the Maasin 1 pit and grassroots exploration drilling program of other identified potential deposits (Maasin 2 and Maasin 3) located in the northern part of the tenement.

INC commenced development of the Ipilan Nickel Project in October 2021 starting with the construction of mine haul roads 1 and 2 followed by the site development and construction of its mine camp and office facilities. The mine has an approved Environmental Compliance Certificate (ECC) with an authorized annual production capacity of 1.0 million dry metric tons, in which it intends to amend the ECC by further increasing its annual production capacity to 3.0 million dry metric tons.

Year 2024 Activities

Maasin 1 (M1) Pit

- 1st and 2nd Quarter
  - Continue ore mining on developed blocks 39, 41, and remaining portion of block 38;
  - Start stripping and mining of blocks 34, 35, and 40;
  - Start of rehabilitation activities of mined-out portion of block 38;
  - Construction and maintenance of environmental protection structures;
  - Construction, widening and maintenance of new and existing haul roads;
  - Construction and maintenance of new waste (including topsoil and subsoil) and ore stockyards; and
  - Loading and hauling of waste rocks/boulders.
- 3rd and 4th Quarter (2025 Advanced Development)
  - Continue ore mining on developed blocks 39, 41, 34, 35, and 40;
  - Start stripping and mining of blocks 37, 42, 2, and 5;

- Continue construction and maintenance of environmental protection structures;
- Continue construction, widening and maintenance of new and existing haul roads;
- Continue construction and maintenance of new waste (including topsoil and subsoil) and ore stockyards; and
- Continue loading and hauling of waste rocks/boulders for INC.

▪ Others

- Construction and improvement of offices and facilities at the minecamp (Administration Building, Minebase Building, COMREL Building, Staffhouses, etc.);
- Maintenance activities of the causeway;
- Exploration and in-fill drilling activities at Maasin 1 areas;
- Processing, submission and approval of EPEP, FMRDP, Amended FS, ECC Amendment, and Tree Cutting Permit, etc.; and
- Implementation of AEPEP, ASDMP, ASHP, National Greening, and CSR programs.

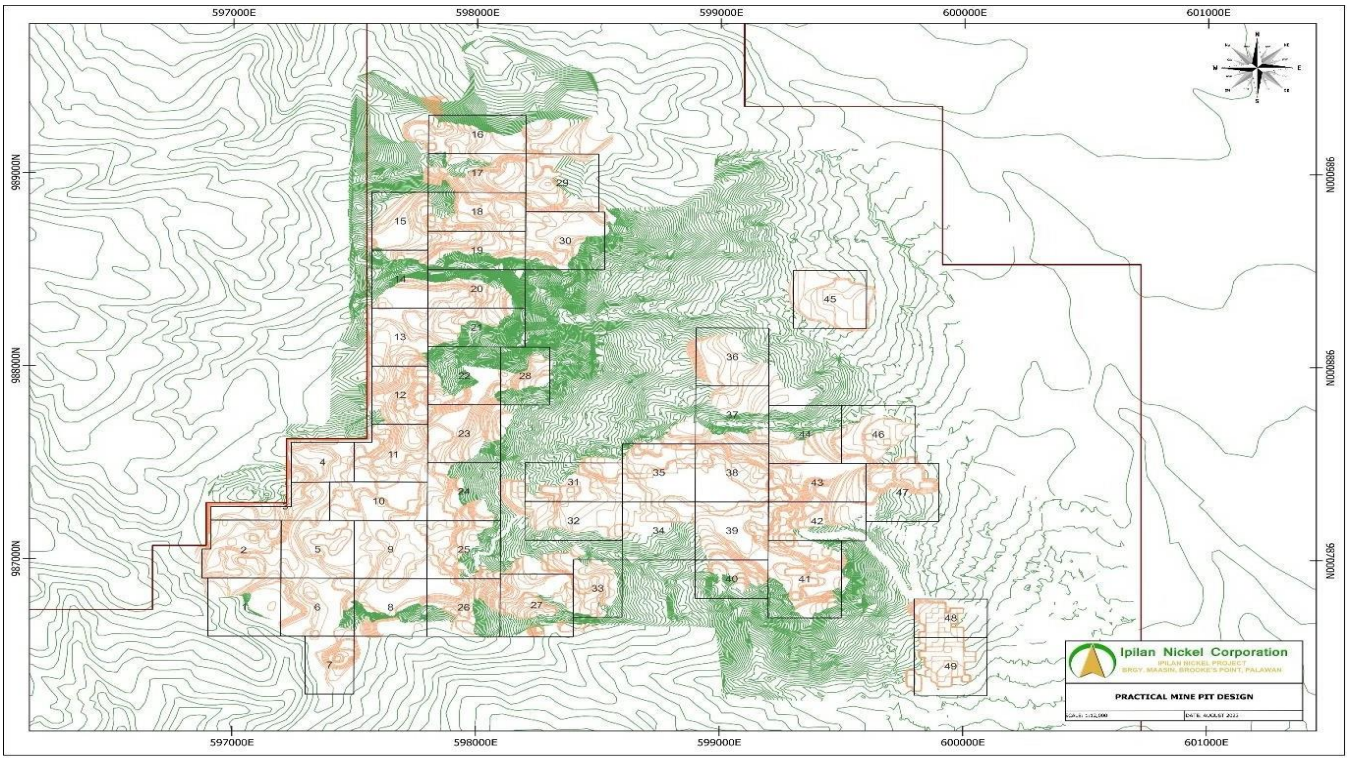
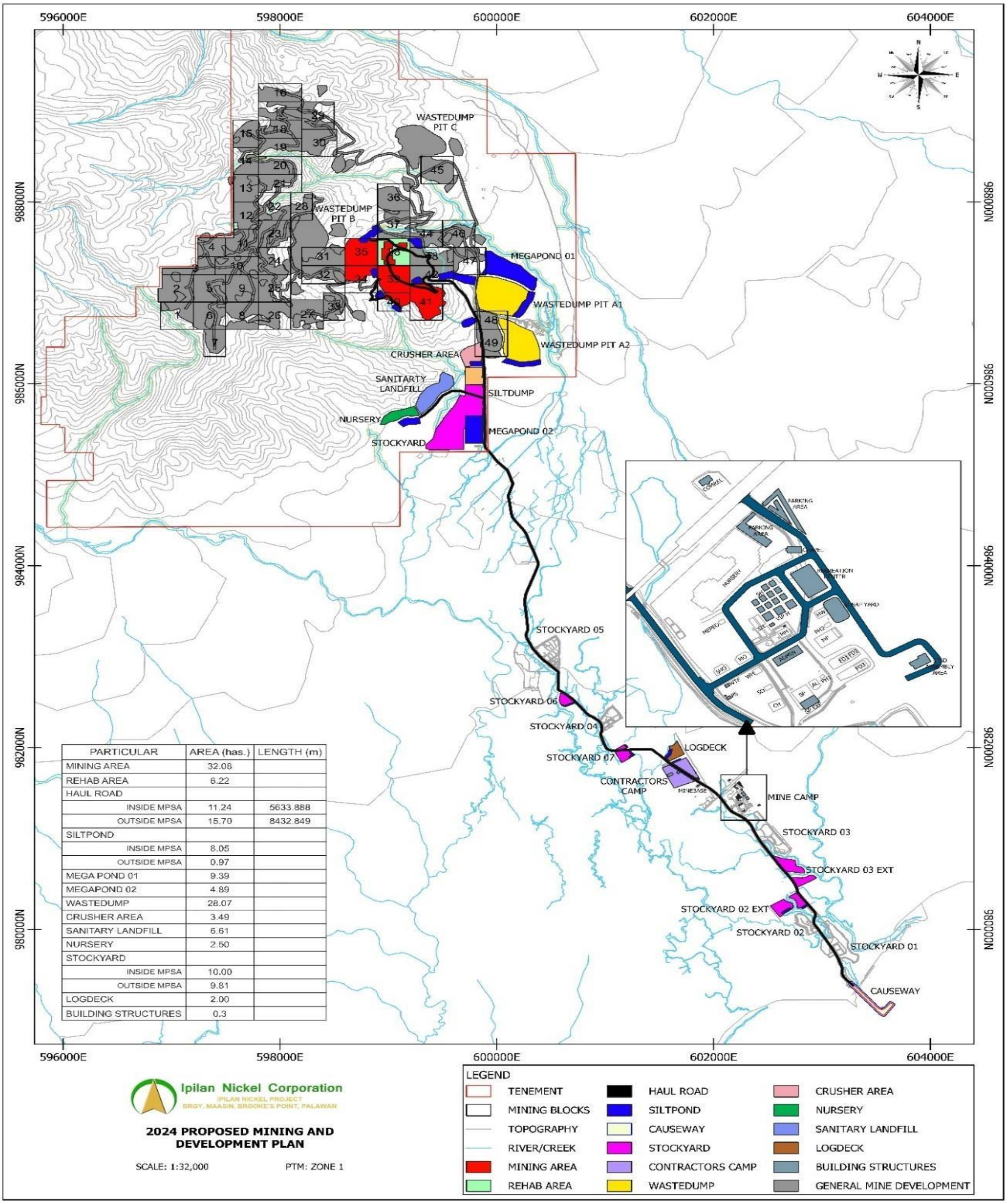


Figure 20- Maasin 1 Practical Pit Design

Targeted sites/areas

*Refer to **Annex 4** for the 1:10,000 location maps (printed in A3 paper) with the corresponding technical description showing the sites/areas of planned development sites, pier stockyards, camp/housing facilities, process plant location and other facilities*



PARTICULAR	AREA (has.)	LENGTH (m)
MINING AREA	32.08	
REHAB AREA	6.22	
HAUL ROAD		
INSIDE MPSA	11.24	5633.888
OUTSIDE MPSA	15.70	8432.849
SILTPOND		
INSIDE MPSA	8.05	
OUTSIDE MPSA	0.97	
MEGA POND 01	9.39	
MEGAPOND 02	4.89	
WASTEDUMP	28.07	
CRUSHER AREA	3.49	
SANITARY LANDFILL	6.61	
NURSERY	2.50	
STOCKYARD		
INSIDE MPSA	10.00	
OUTSIDE MPSA	9.81	
LOGDECK	2.00	
BUILDING STRUCTURES	0.3	

Figure 21- 2024 Proposed Mining and Development Plan, 1:32000 scale

Figure 22- 2024 Proposed Mining and Development Plan, 1:10000 scale

MINING AREA

BLOCK 41

Point	Latitude	Longitude
1	8°55'37.05"	117°54'7.203"
2	8°55'37.61"	117°54'11.855"
3	8°55'37.717"	117°54'12.106"
4	8°55'37.413"	117°54'12.612"
5	8°55'34.346"	117°54'13.265"
6	8°55'33.757"	117°54'13.75"
7	8°55'33.021"	117°54'15.136"
8	8°55'33.004"	117°54'15.726"
9	8°55'32.877"	117°54'16.036"
10	8°55'32.656"	117°54'16.913"
11	8°55'32.037"	117°54'17.292"
12	8°55'31.243"	117°54'17.621"
13	8°55'30.804"	117°54'17.645"
14	8°55'29.88"	117°54'17.349"
15	8°55'29.394"	117°54'16.965"
16	8°55'28.702"	117°54'17.088"
17	8°55'28.351"	117°54'17.235"
18	8°55'28.127"	117°54'17.691"
19	8°55'27.978"	117°54'17.94"
20	8°55'27.747"	117°54'18.033"
21	8°55'26.287"	117°54'17.274"
22	8°55'26.2"	117°54'17.041"
23	8°55'26.447"	117°54'16.63"
24	8°55'26.251"	117°54'16.018"
25	8°55'26.031"	117°54'15.723"
26	8°55'25.666"	117°54'15.842"
27	8°55'25.196"	117°54'15.874"
28	8°55'24.932"	117°54'16.174"
29	8°55'24.643"	117°54'16.36"
30	8°55'24.497"	117°54'16.396"
31	8°55'23.657"	117°54'16.382"
32	8°55'22.996"	117°54'15.257"
33	8°55'23.084"	117°54'14.877"
34	8°55'22.698"	117°54'14.444"
35	8°55'22.456"	117°54'14.29"
36	8°55'22.373"	117°54'14.22"
37	8°55'22.12"	117°54'13.655"
38	8°55'21.425"	117°54'13.139"
39	8°55'21.293"	117°54'12.593"
40	8°55'21.396"	117°54'12.172"
41	8°55'21.786"	117°54'11.557"
42	8°55'22.48"	117°54'10.7"
43	8°55'23.404"	117°54'10.62"
44	8°55'24.659"	117°54'9.923"
45	8°55'25.692"	117°54'9.777"
46	8°55'26.572"	117°54'9.07"
47	8°55'27.617"	117°54'8.566"
48	8°55'28.22"	117°54'7.282"
49	8°55'28.456"	117°54'7.123"
50	8°55'34.325"	117°54'7.151"

BLOCK 40

Point	Latitude	Longitude
1	8°55'30.89"	117°54'7.285"
2	8°55'31.024"	117°54'7.057"
3	8°55'30.399"	117°54'6.676"
4	8°55'29.973"	117°54'6.555"
5	8°55'26.739"	117°54'5.556"
6	8°55'25.585"	117°54'3.702"
7	8°55'26.593"	117°54'2.415"
8	8°55'26.809"	117°54'2.358"
9	8°55'27.531"	117°54'2.688"
10	8°55'28.354"	117°54'2.649"
11	8°55'28.731"	117°54'2.002"
12	8°55'28.712"	117°54'1.259"
13	8°55'28.862"	117°54'0.691"
14	8°55'28.662"	117°53'59.985"
15	8°55'29.303"	117°53'58.999"
16	8°55'30.078"	117°53'59.223"
17	8°55'31.389"	117°53'59.452"
18	8°55'31.19"	117°54'1.459"

BLOCK 34

Point	Latitude	Longitude
1	8°55'36.235"	117°53'57.313"
2	8°55'40.934"	117°53'57.324"
3	8°55'40.956"	117°53'47.505"
4	8°55'35.095"	117°53'47.491"
5	8°55'35.183"	117°53'47.634"
6	8°55'35.357"	117°53'47.756"
7	8°55'35.614"	117°53'47.827"
8	8°55'35.736"	117°53'48.003"
9	8°55'35.782"	117°53'48.343"
10	8°55'35.663"	117°53'48.766"
11	8°55'35.309"	117°53'50.095"
12	8°55'35.36"	117°53'50.596"
13	8°55'35.662"	117°53'51.226"
14	8°55'35.853"	117°53'51.898"
15	8°55'35.789"	117°53'52.401"
16	8°55'35.635"	117°53'53.331"
17	8°55'36.305"	117°53'53.834"
18	8°55'36.544"	117°53'53.896"
19	8°55'37.453"	117°53'54.136"
20	8°55'37.466"	117°53'54.798"
21	8°55'37.414"	117°53'55.657"
22	8°55'37.421"	117°53'56.063"
23	8°55'37.611"	117°53'56.622"
24	8°55'36.88"	117°53'56.96"
25	8°55'36.535"	117°53'57.121"

BLOCK 35

Point	Latitude	Longitude
1	8°55'53.391"	117°53'49.197"
2	8°55'53.925"	117°53'57.348"
3	8°55'44.138"	117°53'57.324"
4	8°55'43.87"	117°53'47.505"
5	8°55'48.122"	117°53'47.522"
6	8°55'48.201"	117°53'47.76"
7	8°55'49.633"	117°53'48.323"
8	8°55'50.014"	117°53'48.635"
9	8°55'50.306"	117°53'48.955"

BLOCK 39

Point	Latitude	Longitude
1	8°55'33.864"	117°54'6.707"
2	8°55'34.389"	117°54'5.521"
3	8°55'34.385"	117°54'3.25"
4	8°55'34.102"	117°54'1.459"
5	8°55'31.25"	117°54'0.818"
6	8°55'31.389"	117°53'59.452"
7	8°55'31.936"	117°53'59.009"
8	8°55'32.75"	117°53'58.689"
9	8°55'33.442"	117°53'58.162"
10	8°55'33.82"	117°53'57.949"
11	8°55'34.064"	117°53'57.91"
12	8°55'34.393"	117°53'57.79"
13	8°55'35.341"	117°53'57.809"
14	8°55'36.202"	117°53'57.332"
15	8°55'40.836"	117°53'57.333"
16	8°55'40.922"	117°53'57.533"
17	8°55'40.885"	117°54'7.093"
18	8°55'31.189"	117°54'7.076"

REHAB AREA

BLOCK 38

Point	Latitude	Longitude
1	8°55'53.348"	117°54'7.167"
2	8°55'44.137"	117°54'7.143"
3	8°55'44.138"	117°53'57.324"
4	8°55'53.81"	117°53'57.348"

SILTPONDS

BLOCK 41 SILTPOND

Point	Latitude	Longitude
1	8°55'21.441"	117°54'23.27"
2	8°55'22.248"	117°54'24.797"
3	8°55'23.825"	117°54'27.066"
4	8°55'24.171"	117°54'27.075"
5	8°55'21.782"	117°54'26.799"
6	8°55'22.107"	117°54'26.401"
7	8°55'22.351"	117°54'25.789"
8	8°55'21.26"	117°54'23.392"
9	8°55'20.984"	117°54'23.041"
10	8°55'20.416"	117°54'22.742"
11	8°55'20.109"	117°54'22.73"
12	8°55'19.498"	117°54'22.842"

BLOCK 40 SILTPOND

Point	Latitude	Longitude
1	8°55'29.579"	117°54'2.649"
2	8°55'30.026"	117°54'2.828"
3	8°55'29.344"	117°54'3.505"
4	8°55'28.377"	117°54'4.18"
5	8°55'25.107"	117°54'4.375"
6	8°55'24.871"	117°54'4.527"
7	8°55'24.675"	117°54'4.532"
8	8°55'24.491"	117°54'4.458"
9	8°55'24.322"	117°54'4.323"
10	8°55'24.415"	117°54'3.758"
11	8°55'24.684"	117°54'3.182"

BLOCK 34 SILTPOND

Point	Latitude	Longitude
1	8°55'39.313"	117°53'55.999"
2	8°55'40.46"	117°53'55.912"
3	8°55'40.935"	117°53'55.711"
4	8°55'41.275"	117°53'55.429"
5	8°55'39.225"	117°53'55.187"
6	8°55'39.702"	117°53'55.622"
7	8°55'40.017"	117°53'56.46"
8	8°55'39.78"	117°53'57.242"
9	8°55'38.617"	117°53'57.307"
10	8°55'37.702"	117°53'57.258"
11	8°55'37.105"	117°53'57.253"
12	8°55'36.53"	117°53'56.425"

BLOCK 39 SILTPOND

Point	Latitude	Longitude
1	8°55'32.742"	117°53'56.566"
2	8°55'33.647"	117°53'56.692"
3	8°55'34.775"	117°53'57.43"
4	8°55'35.111"	117°53'58.058"
5	8°55'31.994"	117°53'58.391"
6	8°55'31.39"	117°53'58.795"
7	8°55'30.741"	117°53'59.096"
8	8°55'30.063"	117°53'59.209"
9	8°55'29.688"	117°53'59.082"
10	8°55'29.23"	117°53'58.227"
11	8°55'29.096"	117°53'57.312"
12	8°55'29.474"	117°53'56.728"

CRUSHER SILTPOND

Point	Latitude	Longitude
1	8°55'9.028"	117°54'28.926"
2	8°55'9.608"	117°54'25.366"
3	8°55'8.023"	117°54'25.355"
4	8°55'7.705"	117°54'28.915"

NURSERY SILTPOND

Point	Latitude	Longitude
1	8°54'47.435"	117°54'3.342"
2	8°54'48.849"	117°54'4.476"
3	8°54'49.318"	117°54'5.222"
4	8°54'49.316"	117°54'6.23"
5	8°54'46.261"	117°54'7.673"
6	8°54'46.556"	117°54'9.955"
7	8°54'44.324"	117°54'10.07"
8	8°54'43.994"	117°54'7.976"
9	8°54'44.052"	117°54'6.508"
10	8°54'43.644"	117°54'5.867"
11	8°54'43.195"	117°54'4.932"

BLOCK 35 SILTPOND

Point	Latitude	Longitude
1	8°55'56.485"	117°53'55.912"
2	8°55'56.789"	117°53'56.996"
3	8°55'57.061"	117°53'58.006"
4	8°55'56.789"	117°53'58.276"
5	8°55'53.591"	117°53'58.508"
6	8°55'53.239"	117°53'58.82"
7	8°55'52.994"	117°53'59"
8	8°55'52.683"	117°53'57.903"
9	8°55'52.351"	117°53'57.151"
10	8°55'51.328"	117°53'56.602"
11	8°55'51.109"	117°53'55.858"
12	8°55'51.001"	117°53'55.092"
13	8°55'50.541"	117°53'54.703"
14	8°55'49.76"	117°53'54.355"
15	8°55'49.189"	117°53'54.169"
16	8°55'49.166"	117°53'52.574"
17	8°55'49.473"	117°53'52.096"
18	8°55'50.115"	117°53'51.615"
19	8°55'50.491"	117°53'51.83"
20	8°55'51.168"	117°53'52.492"
21	8°55'51.578"	117°53'52.994"
22	8°55'52.308"	117°53'54.074"
23	8°55'52.96"	117°53'54.698"
24	8°55'53.329"	117°53'55.002"
25	8°55'53.617"	117°53'55.504"

SILTPOND 2

Point	Latitude	Longitude
1	8°55'56.294"	117°53'56.985"
2	8°55'57.1"	117°53'55.938"
3	8°55'57.396"	117°53'55.749"
4	8°55'57.441"	117°53'55.787"
5	8°55'55.063"	117°53'55.961"
6	8°55'55.297"	117°53'56.661"
7	8°55'55.352"	117°53'57.167"
8	8°55'55.347"	117°53'57.444"
9	8°55'55.115"	117°53'57.485"
10	8°55'54.527"	117°53'57.934"
11	8°55'53.937"	117°53'58.217"
12	8°55'53.903"	117°53'57.961"
13	8°55'53.81"	117°53'57.578"

Point	Latitude	Longitude
1	8°55'39.646"	117°54'25.989"
2	8°55'40.581"	117°54'24.405"
3	8°55'40.647"	117°54'24.31"
4	8°55'40.894"	117°54'21.705"
5	8°55'38.058"	117°54'21.628"
6	8°55'38.35"	117°54'20.948"
7	8°55'38.553"	117°54'20.323"
8	8°55'38.561"	117°54'20.26"
9	8°55'38.654"	117°54'20.054"
10	8°55'38.871"	117°54'19.927"
11	8°55'38.763"	117°54'19.518"
12	8°55'38.77"	117°54'19.3"
13	8°55'38.515"	117°54'18.353"
14	8°55'38.349"	117°54'18.032"
15	8°55'38.311"	117°54'17.581"
16	8°55'37.839"	117°54'15.824"
17	8°55'36.997"	117°54'15.834"
18	8°55'36.682"	117°54'15.874"
19	8°55'35.785"	117°54'15.813"
20	8°55'35.938"	117°54'17.004"
21	8°55'36.395"	117°54'19.37"
22	8°55'35.81"	117°54'21.101"
23	8°55'35.821"	117°54'21.191"
24	8°55'34.493"	117°54'23.664"
25	8°55'34.546"	117°54'23.794"
26	8°55'34.242"	117°54'25.469"
27	8°55'33.849"	117°54'26.551"
28	8°55'36.866"	117°54'27.103"

MEGAPOND 1

Point	Latitude	Longitude
1	8°55'40.484"	117°54'28.591"
2	8°55'42.652"	117°54'29.722"
3	8°55'44.454"	117°54'30.33"
4	8°55'45.406"	117°54'30.18"
5	8°55'44.456"	117°54'29.704"
6	8°55'46.011"	117°54'29.827"
7	8°55'46.082"	117°54'31.538"
8	8°55'44.493"	117°54'33.445"
9	8°55'43.588"	117°54'35.357"
10	8°55'41.869"	117°54'37.849"
11	8°55'40.942"	117°54'40.393"
12	8°55'39.093"	117°54'42.069"
13	8°55'37.239"	117°54'43.962"
14	8°55'36.175"	117°54'45.429"
15	8°55'33.42"	117°54'45.162"
16	8°55'31.89"	117°54'44.585"
17	8°55'32.113"	117°54'43.715"
18	8°55'33.952"	117°54'41.41"
19	8°55'35.074"	117°54'39.724"
20	8°55'36.197"	117°54'37.112"
21	8°55'37.014"	117°54'34.595"
22	8°55'37.458"	117°54'33.098"
23	8°55'37.656"	117°54'31.598"
24	8°55'37.814"	117°54'30.159"

MEGAPOND 2

Point	Latitude	Longitude
1	8°54'39.935"	117°54'23.66"
2	8°54'50.349"	117°54'23.686"
3	8°54'50.326"	117°54'28.998"
4	8°54'47.92"	117°54'28.998"
5	8°54'37.262"	117°54'28.902"

WASTEDUMP A1 SILTPOND

Point	Latitude	Longitude
1	8°55'34.317"	117°54'43.001"
2	8°55'32.074"	117°54'42.381"
3	8°55'30.937"	117°54'41.255"
4	8°55'27.551"	117°54'39.722"
5	8°55'22.663"	117°54'38.022"
6	8°55'22.215"	117°54'40.182"
7	8°55'23.96"	117°54'41.691"
8	8°55'26.949"	117°54'43.16"
9	8°55'28.274"	117°54'44.159"
10	8°55'31.264"	117°54'44.908"

WASTEDUMP A2 SILTPOND

Point	Latitude	Longitude
1	8°55'10.286"	117°54'36.041"
2	8°55'9.424"	117°54'40.27"
3	8°55'9.635"	117°54'43.731"
4	8°55'9.996"	117°54'46.409"
5	8°55'5.489"	117°54'46.593"
6	8°55'4.813"	117°54'44.037"
7	8°55'4.658"	117°54'40.122"
8	8°55'6.277"	117°54'34.708"

LOGDECK SILTPOND

Point	Latitude	Longitude
1	8°52'50.496"	117°55'24.989"
2	8°52'49.249"	117°55'24.602"
3	8°52'48.218"	117°55'23.582"
4	8°52'47.126"	117°55'24.243"
5	8°52'45.646"	117°55'25.482"
6	8°52'47.654"	117°55'25.933"

Ipilan Nickel Corporation
IPILAN NICKEL PROJECT
BRGY. MAASIN, BROOKE'S POINT, PALAWAN

2024 PROPOSED MINING AND DEVELOPMENT PLAN TECHNICAL DESCRIPTION

SILTPONDS

STOCKYARD 6 SILTPOND

Point	Latitude	Longitude
1	8°53'5.999"	117°54'53.366"
2	8°53'6.879"	117°54'52.438"
3	8°53'6.486"	117°54'52.554"
4	8°53'5.857"	117°54'53.499"
Point	Latitude	Longitude
1	8°53'6.599"	117°54'55.015"
2	8°53'6.484"	117°54'53.519"
3	8°53'6.079"	117°54'53.661"
4	8°53'6.467"	117°54'55.163"
Point	Latitude	Longitude
1	8°53'7.171"	117°54'56.285"
2	8°53'7.207"	117°54'55.134"
3	8°53'6.814"	117°54'55.302"
4	8°53'7.083"	117°54'56.549"

STOCKYARD 7 SILTPOND

Point	Latitude	Longitude
1	8°52'51.967"	117°55'11.601"
2	8°52'52.627"	117°55'11.839"
3	8°52'52.607"	117°55'11.845"
4	8°52'51.854"	117°55'12.175"
Point	Latitude	Longitude
1	8°52'51.399"	117°55'12.008"
2	8°52'52.062"	117°55'12.253"
3	8°52'51.58"	117°55'12.582"
4	8°52'51.179"	117°55'12.338"
Point	Latitude	Longitude
1	8°52'49.208"	117°55'13.585"
2	8°52'50.34"	117°55'13.479"
3	8°52'50.307"	117°55'12.984"
4	8°52'49.174"	117°55'13.136"
Point	Latitude	Longitude
1	8°52'48.361"	117°55'14.727"
2	8°52'49.678"	117°55'13.697"
3	8°52'49.383"	117°55'13.247"
4	8°52'48.327"	117°55'14.275"
Point	Latitude	Longitude
1	8°52'48.002"	117°55'14.172"
2	8°52'47.917"	117°55'13.185"
3	8°52'48.186"	117°55'12.791"
4	8°52'48.532"	117°55'13.778"

STOCKYARD 2 EXT SILTPOND

Point	Latitude	Longitude
1	8°51'51.972"	117°56'0.418"
2	8°51'51.703"	117°55'59.179"
3	8°51'52.317"	117°55'58.666"
4	8°51'52.862"	117°55'59.837"
Point	Latitude	Longitude
1	8°51'53.061"	117°56'1.721"
2	8°51'53.359"	117°56'1.504"
3	8°51'53.024"	117°56'1.155"
4	8°51'52.284"	117°56'0.528"
5	8°51'50.003"	117°56'0.014"
6	8°51'50.893"	117°56'1.256"
Point	Latitude	Longitude
1	8°51'53.618"	117°56'4.681"
2	8°51'54.627"	117°56'5.361"
3	8°51'54.037"	117°56'5.744"
4	8°51'53.29"	117°56'5.064"
Point	Latitude	Longitude
1	8°51'54.144"	117°56'5.47"
2	8°51'55.152"	117°56'6.149"
3	8°51'54.562"	117°56'6.532"
4	8°51'53.815"	117°56'5.853"

HAUL ROADS

MHR 02 ROAD

Point	Latitude	Longitude
1	8°55'23.275"	117°54'28.26"
2	8°55'19.266"	117°54'29.007"
3	8°55'13.462"	117°54'29.363"
4	8°55'6.643"	117°54'29.77"
5	8°54'37.099"	117°54'29.841"
6	8°54'36.18"	117°54'29.963"
7	8°54'35.758"	117°54'30.077"
8	8°54'30.86"	117°54'33.643"
9	8°54'27.584"	117°54'36.728"
10	8°54'23.124"	117°54'38.237"
11	8°54'22.611"	117°54'38.276"
12	8°54'18.823"	117°54'37.045"
13	8°54'18.454"	117°54'36.965"
14	8°54'17.926"	117°54'36.991"
15	8°54'11.015"	117°54'38.1"
16	8°54'9.695"	117°54'38.956"
17	8°54'6.621"	117°54'41.299"
18	8°54'5.573"	117°54'41.95"
19	8°54'4.601"	117°54'42.392"
20	8°54'3.776"	117°54'42.705"
21	8°54'2.113"	117°54'43.215"
22	8°53'54.731"	117°54'45.868"
23	8°53'54.287"	117°54'45.924"
24	8°53'53.793"	117°54'45.923"
25	8°53'53.262"	117°54'45.783"
26	8°53'44.459"	117°54'42.566"
27	8°53'43.484"	117°54'42.229"
28	8°53'42.828"	117°54'42.082"
29	8°53'41.938"	117°54'41.925"
30	8°53'41.098"	117°54'41.866"
31	8°53'40.253"	117°54'41.845"
32	8°53'39.22"	117°54'41.892"
33	8°53'30.985"	117°54'42.719"
34	8°53'30.241"	117°54'42.687"
35	8°53'29.455"	117°54'42.39"
36	8°53'28.673"	117°54'42.158"
37	8°53'28.02"	117°54'42.267"
38	8°53'23.889"	117°54'44.153"
39	8°53'20.164"	117°54'47.053"
40	8°53'18.592"	117°54'48.781"
41	8°53'16.503"	117°54'50.869"
42	8°53'15.971"	117°54'51.477"
43	8°53'15.444"	117°54'51.865"
44	8°53'14.961"	117°54'51.938"
45	8°53'9.457"	117°54'51.783"
46	8°53'9.247"	117°54'51.865"
47	8°53'9.04"	117°54'52.077"
48	8°53'8.358"	117°54'53.032"
49	8°53'7.585"	117°54'54.101"
50	8°53'6.77"	117°54'55.092"
51	8°53'6.011"	117°54'55.896"
52	8°53'0.259"	117°55'0.806"
53	8°52'59.936"	117°55'1.288"
54	8°52'59.354"	117°55'2.299"
55	8°52'58.001"	117°55'3.962"
56	8°52'57.355"	117°55'4.452"
57	8°52'56.571"	117°55'4.774"
58	8°52'55.215"	117°55'4.997"
59	8°52'54.316"	117°55'5"
60	8°52'53.079"	117°55'4.615"
61	8°52'52.495"	117°55'4.692"
62	8°52'51.852"	117°55'4.935"
63	8°52'48.511"	117°55'6.141"
64	8°52'48.07"	117°55'6.408"
65	8°52'47.861"	117°55'6.658"
66	8°52'47.636"	117°55'7.261"
67	8°52'47.458"	117°55'8.039"
68	8°52'47.871"	117°55'13.729"
69	8°52'47.891"	117°55'19.592"
70	8°52'47.633"	117°55'20.188"
71	8°52'47.277"	117°55'20.621"
72	8°52'43.016"	117°55'25.097"
73	8°52'42.107"	117°55'26.258"
74	8°52'41.235"	117°55'27.485"
75	8°52'34.987"	117°55'35.644"
76	8°52'34.202"	117°55'36.911"
77	8°52'33.369"	117°55'37.883"
78	8°52'32.066"	117°55'39.29"
79	8°52'31.146"	117°55'40.098"
80	8°52'30.718"	117°55'39.605"
81	8°52'31.612"	117°55'38.82"
82	8°52'32.884"	117°55'37.446"
83	8°52'33.676"	117°55'36.522"
84	8°52'34.447"	117°55'35.279"
85	8°52'40.713"	117°55'27.094"
86	8°52'41.586"	117°55'25.865"
87	8°52'42.527"	117°55'24.664"
88	8°52'46.789"	117°55'20.187"
89	8°52'47.073"	117°55'19.842"
90	8°52'47.255"	117°55'19.422"
91	8°52'47.221"	117°55'13.765"
92	8°52'46.805"	117°55'7.974"
93	8°52'47.011"	117°55'7.071"
94	8°52'47.291"	117°55'6.323"
95	8°52'47.641"	117°55'5.904"
96	8°52'48.208"	117°55'5.56"
97	8°52'51.646"	117°55'4.314"
98	8°52'52.335"	117°55'4.053"
99	8°52'53.121"	117°55'3.849"
100	8°52'54.421"	117°55'4.345"
101	8°52'55.161"	117°55'4.342"
102	8°52'56.394"	117°55'4.14"
103	8°52'57.03"	117°55'3.878"
104	8°52'57.556"	117°55'3.479"
105	8°52'58.813"	117°55'1.932"
106	8°52'59.384"	117°55'0.941"
107	8°52'59.762"	117°55'0.376"
108	8°53'5.55"	117°54'55.434"
109	8°53'6.283"	117°54'54.657"
110	8°53'7.07"	117°54'53.7"
111	8°53'7.83"	117°54'52.646"
112	8°53'8.54"	117°54'51.655"
113	8°53'8.88"	117°54'51.306"
114	8°53'9.339"	117°54'51.127"
115	8°53'14.909"	117°54'51.284"
116	8°53'15.189"	117°54'51.242"
117	8°53'15.529"	117°54'50.991"
118	8°53'16.023"	117°54'50.426"
119	8°53'18.121"	117°54'48.329"
120	8°53'19.722"	117°54'46.572"
121	8°53'23.548"	117°54'43.591"
122	8°53'27.869"	117°54'41.629"
123	8°53'28.714"	117°54'41.488"
124	8°53'29.662"	117°54'41.769"
125	8°53'30.372"	117°54'42.037"
126	8°53'30.963"	117°54'42.063"
127	8°53'39.169"	117°54'41.239"
128	8°53'40.247"	117°54'41.19"
129	8°53'41.129"	117°54'41.212"
130	8°53'42.017"	117°54'41.275"
131	8°53'42.955"	117°54'41.44"
132	8°53'43.661"	117°54'41.598"
133	8°53'44.68"	117°54'41.951"
134	8°53'53.445"	117°54'45.155"
135	8°53'53.877"	117°54'45.266"
136	8°53'54.247"	117°54'45.269"
137	8°53'54.585"	117°54'45.227"
138	8°54'1.906"	117°54'42.594"
139	8°54'3.566"	117°54'42.085"
140	8°54'7.026"	117°54'41.787"
141	8°54'8.495"	117°54'41.371"
142	8°54'9.458"	117°54'40.76"
143	8°54'12.237"	117°54'38.418"
144	8°54'10.75"	117°54'37.493"
145	8°54'17.855"	117°54'36.339"
146	8°54'18.507"	117°54'36.307"
147	8°54'18.996"	117°54'36.413"
148	8°54'22.672"	117°54'37.615"
149	8°54'22.992"	117°54'37.59"
150	8°54'27.289"	117°54'36.136"
151	8°54'30.437"	117°54'33.144"
152	8°54'35.451"	117°54'29.482"
153	8°54'36.052"	117°54'29.32"
154	8°54'37.068"	117°54'29.185"
155	8°55'3.697"	117°54'29.116"
156	8°55'10.225"	117°54'28.709"
157	8°55'15.977"	117°54'28.354"
158	8°55'20.327"	117°54'27.667"

NURSERY ROAD

Point	Latitude	Longitude
1	8°54'55.824"	117°54'29.106"
2	8°54'58.867"	117°54'22.376"
3	8°54'58.831"	117°54'19.663"
4	8°54'57.108"	117°54'17.215"
5	8°54'53.302"	117°54'16.449"
6	8°54'51.365"	117°54'15.28"
7	8°54'49.22"	117°54'13.557"
8	8°54'47.362"	117°54'11.71"
9	8°54'46.288"	117°54'10.14"
10	8°54'46.824"	117°54'9.769"
11	8°54'47.863"	117°54'11.288"
12	8°54'49.653"	117°54'13.068"
13	8°54'51.737"	117°54'14.741"
14	8°54'53.683"	117°54'15.916"
15	8°54'54.701"	117°54'16.789"
16	8°54'56.276"	117°54'19.484"
17	8°54'56.291"	117°54'22.493"
18	8°54'53.761"	117°54'29.334"

MINEPIT ROAD

Point	Latitude	Longitude
1	8°55'23"	117°54'27.667"
2	8°55'28.853"	117°54'25.185"
3	8°55'31.138"	117°54'24.367"
4	8°55'32.86"	117°54'23.402"
5	8°55'32.742"	117°54'21.082"
6	8°55'34.54"	117°54'19.877"
7	8°55'34.972"	117°54'19.236"
8	8°55'35.163"	117°54'18.459"
9	8°55'35.177"	117°54'13.728"
10	8°55'35.463"	117°54'12.845"
11	8°55'35.705"	117°54'12.545"
12	8°55'36.051"	117°54'12.419"
13	8°55'36.312"	117°54'12.413"
14	8°55'36.649"	117°54'12.573"
15	8°55'37.512"	117°54'13.415"
16	8°55'38.085"	117°54'13.789"
17	8°55'38.471"	117°54'13.884"
18	8°55'39.932"	117°54'13.791"
19	8°55'40.266"	117°54'13.615"
20	8°55'41.86"	117°54'12.334"
21	8°55'42.466"	117°54'12.171"
22	8°55'42.864"	117°54'12.18"
23	8°55'43.244"	117°54'12.291"
24	8°55'44.18"	117°54'12.778"
25	8°55'43.853"	117°54'12.003"
26	8°55'43.757"	117°54'11.303"
27	8°55'43.969"	117°54'9.495"
28	8°55'44.236"	117°54'8.765"
29	8°55'45.529"	117°54'7.278"
30	8°55'45.776"	117°54'6.799"
31	8°55'46.431"	117°54'3.652"
32	8°55'46.367"	117°54'3.16"
33	8°55'45.845"	117°54'2.162"
34	8°55'45.277"	117°54'1.485"
35	8°55'44.155"	117°54'0.708"
36	8°55'43.433"	117°54'0.574"
37	8°55'41.971"	117°54'0.787"
38	8°55'38.756"	117°54'1.806"
39	8°55'37.49"	117°54'2.474"
40	8°55'36.334"	117°54'3.56"
41	8°55'35.015"	117°54'5.651"
42	8°55'33.8"	117°54'8.787"
43	8°55'33.141"	117°54'12.075"
44	8°55'32.882"	117°54'12.764"
45	8°55'31.839"	117°54'14.296"
46	8°55'33.233"	117°54'13.045"
47	8°55'34.244"	117°54'11.569"
48	8°55'35.058"	117°54'10.756"
49	8°55'35.629"	117°54'10.639"
50	8°55'36.389"	117°54'10.929"
51	8°55'37.102"	117°54'11.823"
52	8°55'37.263"	117°54'13.15"
53	8°55'36.653"	117°54'12.567"
54	8°55'36.531"	117°54'12.509"
55	8°55'36.478"	117°54'12.087"
56	8°55'35.992"	117°54'11.477"
57	8°55'35.575"	117°54'11.318"
58	8°55'35.342"	117°54'11.366"
59	8°55'34.774"	117°54'11.95"
60	8°55'33.697"	117°54'13.504"
61	8°55'32.152"	117°54'14.932"
62	8°55'32.139"	117°54'15.201"
63	8°55'32.105"	117°54'15.347"
64	8°55'31.942"	117°54'15.61"
65	8°55'31.625"	117°54'15.622"
66	8°55'31.336"	117°54'15.499"
67	8°55'31.035"	117°54'15.213"
68	8°55'30.881"	117°54'14.775"
69	8°55'30.93"	117°54'14.548"
70	8°55'32.293"	117°54'12.484"
71	8°55'32.516"	117°54'11.889"
72	8°55'33.18"	117°54'8.585"
73	8°55'34.425"	117°54'5.371"
74	8°55'35.858"	117°54'3.111"
75	8°55'37.11"	117°54'1.935"
76	8°55'38.491"	117°54'1.207"
77	8°55'41.821"	117°54'0.15"
78	8°55'43.456"	117°53'59.913"
79	8°55'44.376"	117°54'0.083"
80	8°55'45.729"	117°54'1.009"
81	8°55'46.374"	117°54'1.777"
82	8°55'46.999"	117°54'2.974"
83	8°55'47.086"	117°54'3.636"
84	8°55'46.378"	117°54'7.054"
85	8°55'46.085"	117°54'7.622"
86	8°55'44.804"	117°54'9.092"
87	8°55'44.602"	117°54'9.655"
88	8°55'44.408"	117°54'11.288"
89	8°55'44.531"	117°54'11.962"
90	8°55'44.862"	117°54'12.747"
91	8°55'44.904"	117°54'13.107"
92	8°55'44.643"	117°54'13.484"
93	8°55'44.173"	117°54'13.463"
94	8°55'43.023"	117°54'12.908"
95	8°55'42.765"	117°54'12.832"
96	8°55'42.384"	117°54'12.854"
97	8°55'42.117"	117°54'12.938"
98	8°55'40.653"	117°54'14.143"
99	8°55'40.146"	117°54'14.413"
100	8°55'38.394"	117°54'14.535"
101	8°55'37.839"	117°54'14.396"
102	8°55'37.219"	117°54'14.034"
103	8°55'36.172"	117°54'13.071"
104	8°55'36.172"	117°54'13.071"
105	8°55'36.019"	117°54'13.195"
106	8°55'35.82"	117°54'13.832"
107	8°55'35.811"	117°54'18.531"
108	8°55'35.573"	117°54'19.493"
109	8°55'35.013"	117°54'20.329"
110	8°55'33.114"	117°54'21.619"
111	8°55'30.3"	117°54'23.954"
112	8°55'28.154"	117°54'24.983"
113	8°55'25.877"	117°54'25.79"
114	8°55'20.602"	117°54'28.26"

Ipilan Nickel Corporation
IPILAN NICKEL PROJECT
BRGY. MAASIN, BROOKE'S POINT, PALAWAN

2024 PROPOSED MINING AND DEVELOPMENT PLAN TECHNICAL DESCRIPTION

WASTEDUMP A1		
Point	Latitude	Longitude
1	8°55'39.653"	117°54'27.861"
2	8°55'40.282"	117°54'29.306"
3	8°55'40.055"	117°54'31.472"
4	8°55'39.533"	117°54'33.239"
5	8°55'35.933"	117°54'35.239"
6	8°55'34.58"	117°54'38.871"
7	8°55'33.329"	117°54'40.98"
8	8°55'31.635"	117°54'42.854"
9	8°55'28.654"	117°54'42.21"
10	8°55'27.845"	117°54'41.133"
11	8°55'24.904"	117°54'39.673"
12	8°55'22.796"	117°54'37.9"
13	8°55'23.03"	117°54'36.27"
14	8°55'23.557"	117°54'33.093"
15	8°55'24.996"	117°54'28.948"
16	8°55'25.285"	117°54'28.212"
17	8°55'26.79"	117°54'27.894"
18	8°55'29.223"	117°54'27.19"
19	8°55'30.273"	117°54'27.091"
20	8°55'31.93"	117°54'26.985"

WASTEDUMP A2		
Point	Latitude	Longitude
1	8°55'23.086"	117°54'38.518"
2	8°55'22.273"	117°54'40.407"
3	8°55'20.387"	117°54'44.131"
4	8°55'16.5"	117°54'45.567"
5	8°55'10.64"	117°54'46.273"
6	8°55'7.274"	117°54'46.387"
7	8°55'6.553"	117°54'43.711"
8	8°55'6.319"	117°54'40.336"
9	8°55'7.297"	117°54'37.44"
10	8°55'7.744"	117°54'36.142"
11	8°55'9.12"	117°54'35.426"
12	8°55'11.621"	117°54'35.115"
13	8°55'14.289"	117°54'35.523"
14	8°55'16.315"	117°54'35.538"
15	8°55'17.19"	117°54'35.188"
16	8°55'18.732"	117°54'34.535"
17	8°55'19.9"	117°54'34.051"
18	8°55'22.09"	117°54'33.707"
19	8°55'22.244"	117°54'33.87"
20	8°55'21.784"	117°54'35.352"
21	8°55'21.281"	117°54'36.974"

CRUSHER		
Point	Latitude	Longitude
1	8°55'9.515"	117°54'22.896"
2	8°55'11.786"	117°54'22.324"
3	8°55'12.633"	117°54'22.11"
4	8°55'13.257"	117°54'22.734"
5	8°55'10.534"	117°54'22.934"
6	8°55'11.199"	117°54'23.76"
7	8°55'11.764"	117°54'24.493"
8	8°55'12.127"	117°54'25.558"
9	8°55'12.301"	117°54'26.083"
10	8°55'13.532"	117°54'28.279"
11	8°55'11.869"	117°54'28.336"
12	8°55'11.792"	117°54'28.611"
13	8°55'9.345"	117°54'28.738"
14	8°55'6.518"	117°54'28.592"
15	8°55'6.526"	117°54'25.172"
16	8°55'5.903"	117°54'25.147"
17	8°55'5.586"	117°54'25.35"
18	8°55'4.727"	117°54'25.177"
19	8°55'4.745"	117°54'23.656"
20	8°55'5.668"	117°54'23.366"

SANITARY LANDFILL		
Point	Latitude	Longitude
1	8°54'59.279"	117°54'19.032"
2	8°54'59.354"	117°54'18.179"
3	8°54'58.499"	117°54'16.411"
4	8°54'56.729"	117°54'15.349"
5	8°54'51.79"	117°54'14.253"
6	8°54'49.51"	117°54'12.345"
7	8°54'47.959"	117°54'10.673"
8	8°54'47.609"	117°54'10.232"
9	8°54'50.832"	117°54'8.646"
10	8°54'54.563"	117°54'9.966"
11	8°54'57.351"	117°54'12.147"
12	8°54'58.503"	117°54'14.35"
13	8°54'58.943"	117°54'15.741"
14	8°54'59.561"	117°54'15.946"
15	8°55'1.514"	117°54'16.067"
16	8°55'2.832"	117°54'16.951"
17	8°55'1.219"	117°54'19.917"
18	8°54'58.461"	117°54'20.34"

NURSERY		
Point	Latitude	Longitude
1	8°54'49.589"	117°53'59.12"
2	8°54'51.819"	117°54'1.165"
3	8°54'52.731"	117°54'5.126"
4	8°54'53.348"	117°54'7.935"
5	8°54'50.66"	117°54'8.337"
6	8°54'47.346"	117°54'9.902"
7	8°54'47.027"	117°54'7.88"
8	8°54'47.165"	117°54'6"
9	8°54'46.803"	117°54'4.816"
10	8°54'45.908"	117°54'3.647"
11	8°54'45.412"	117°54'2.683"
12	8°54'45.006"	117°54'0.898"
13	8°54'44.179"	117°53'59.731"
14	8°54'44.045"	117°53'57.989"

LOGDECK		
Point	Latitude	Longitude
1	8°52'46.08"	117°55'25.081"
2	8°52'47.443"	117°55'24.243"
3	8°52'48.855"	117°55'25.482"
4	8°52'50.569"	117°55'25.933"
5	8°52'47.82"	117°55'24.989"
6	8°52'48.579"	117°55'25.094"
7	8°52'49.204"	117°55'26.409"
8	8°52'50.618"	117°55'27.323"
9	8°52'45.87"	117°55'29.516"

STOCKYARD 06		
Point	Latitude	Longitude
1	8°53'7.329"	117°54'56.318"
2	8°53'6.627"	117°54'53.519"
3	8°53'7.073"	117°54'52.212"
4	8°53'8.058"	117°54'51.786"
5	8°53'5.958"	117°54'51.82"
6	8°53'6.967"	117°54'52.06"
7	8°53'7.789"	117°54'52.086"
8	8°53'7.745"	117°54'52.881"

STOCKYARD 07		
Point	Latitude	Longitude
1	8°52'50.754"	117°55'12.177"
2	8°52'51.129"	117°55'11.579"
3	8°52'50.609"	117°55'8.804"
4	8°52'50.429"	117°55'8.765"
5	8°52'49.284"	117°55'11.334"
Point	Latitude	Longitude
1	8°52'47.22"	117°55'13.204"
2	8°52'46.106"	117°55'10.832"
3	8°52'49.787"	117°55'8.643"
4	8°52'49.868"	117°55'9.759"
5	8°52'47.183"	117°55'11.863"
6	8°52'47.22"	117°55'12.701"
7	8°52'47.29"	117°55'12.808"
8	8°52'47.109"	117°55'12.877"

STOCKYARD 02 EXT		
Point	Latitude	Longitude
1	8°51'52.948"	117°56'1.901"
2	8°51'53.946"	117°56'2.173"
3	8°51'54.907"	117°56'2.176"
4	8°51'55.229"	117°56'2.053"
5	8°51'52.683"	117°56'1.436"
6	8°51'52.807"	117°56'0.818"
7	8°51'53.183"	117°56'0.078"
8	8°51'53.676"	117°55'59.584"
9	8°51'53.922"	117°55'59.461"
10	8°51'51.468"	117°55'55.37"
11	8°51'47.521"	117°55'58.209"
12	8°51'48.254"	117°55'59.285"
13	8°51'49.113"	117°55'58.595"
14	8°51'50.964"	117°56'1.233"
Point	Latitude	Longitude
1	8°51'54.742"	117°56'6.278"
2	8°51'59.439"	117°56'3.265"
3	8°51'58.116"	117°56'1.129"
4	8°51'57.345"	117°56'0.985"
5	8°51'54.315"	117°56'1.079"
6	8°51'54.223"	117°56'1.623"
7	8°51'53.983"	117°56'2.289"
8	8°51'53.399"	117°56'3.045"
9	8°51'52.566"	117°56'3.314"
10	8°51'50.725"	117°56'3.582"
11	8°51'50.72"	117°56'4.461"
12	8°51'50.964"	117°56'4.643"

STOCKYARD		
Point	Latitude	Longitude
1	8°54'37.789"	117°54'23.188"
2	8°54'38.265"	117°54'18.856"
3	8°54'38.145"	117°54'18.856"
4	8°54'37.868"	117°54'12.74"
5	8°54'35.053"	117°54'12.74"
6	8°54'35.22"	117°54'12.394"
7	8°54'35.318"	117°54'12.019"
8	8°54'35.481"	117°54'12.02"
9	8°54'35.579"	117°54'11.699"
10	8°54'35.801"	117°54'11.702"
11	8°54'36.488"	117°54'11.711"
12	8°54'36.907"	117°54'11.85"
13	8°54'37.313"	117°54'12.18"
14	8°54'37.731"	117°54'12.71"
15	8°54'38.049"	117°54'13.106"
16	8°54'38.822"	117°54'13.779"
17	8°54'39.324"	117°54'14.039"
18	8°54'42.215"	117°54'14.726"
19	8°54'45.992"	117°54'17.079"
20	8°54'45.992"	117°54'17.079"
21	8°54'46.174"	117°54'17.039"
22	8°54'49.813"	117°54'19.676"
23	8°54'49.758"	117°54'19.757"
24	8°54'52.36"	117°54'21.316"
25	8°54'52.646"	117°54'21.304"
26	8°54'52.86"	117°54'21.443"
27	8°54'54.519"	117°54'22.175"
28	8°54'54.183"	117°54'23.305"
29	8°54'46.904"	117°54'23.439"
30	8°54'47.022"	117°54'23.269"
31	8°54'44.418"	117°54'23.284"
32	8°54'44.162"	117°54'23.241"

Ipilan Nickel Corporation
IPILAN NICKEL PROJECT
BRGY. MAASIN, BROOKE'S POINT, PALAWAN

2024 PROPOSED MINING AND DEVELOPMENT PLAN TECHNICAL DESCRIPTION

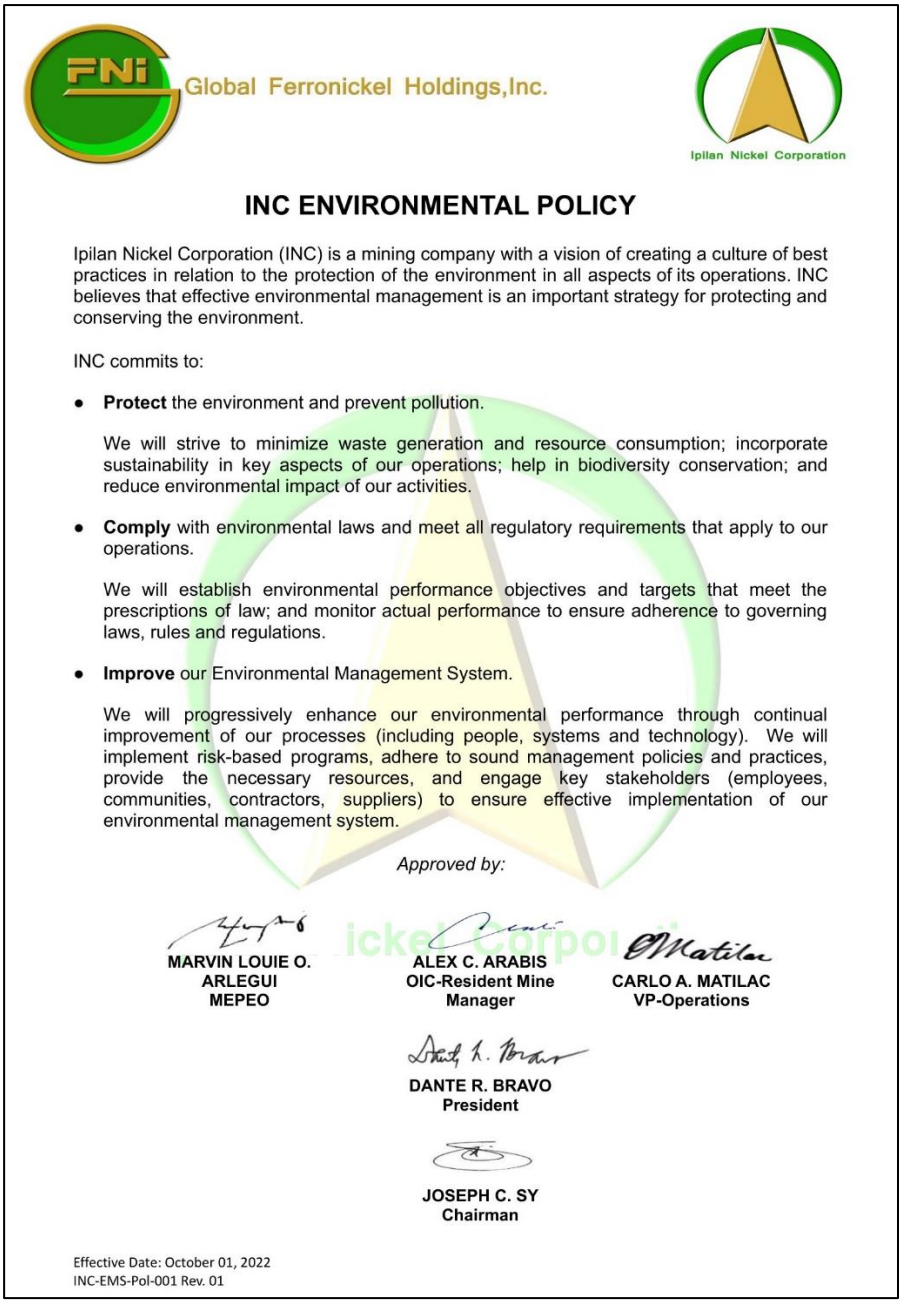
Table 24. Gantt Chart of Development Schedule for 2024

Activities	2024			
	Q1	Q2	Q3	Q4
Continue ore mining on developed blocks 39, 41, and remaining portion of block 38				
Start stripping and mining of blocks 34, 35 and 40				
Start rehabilitation of mined-out portion of block 38				
Construction and maintenance of environmental protection structures				
Construction, widening and maintenance of new and existing haul roads				
Construction and maintenance of new waste and ore stockyards				
Loading and hauling of waste rocks/boulders				
Continue ore mining on developed blocks 39, 41, 34, 35 and 40				
Start stripping and mining of blocks 42, 1, 2, 5 and 6;				
Continue construction and maintenance of environmental protection structures				
Continue construction, widening and maintenance of new and existing haul roads				
Continue construction and maintenance of new waste and ore stockyards				
Continue loading and hauling of waste rocks/boulders for INC				
Processing, submission, and approval of EPEP, FMRDP, Amended FS				
ECC Amendment and Tree Cutting Permit, etc				
Implementation of AEPEP, ASDMP, ASMP, National Greening and CSR Program				

III. Specific Strategy to Limit and Control the Impacts

Environmental impacts of mining operations will be mitigated and controlled through the progressive implementation of the Annual Environmental Protection and Enhancement Program (AEPEP), with activities' financial and physical targets presented in Table 33.

Ipilan Nickel Corporation (INC) is also certified to ISO 14001:2015 for its Environmental Management System. Thus, imposing the following policy commitment:



Global Ferronickel Holdings, Inc.

Ipilan Nickel Corporation

INC ENVIRONMENTAL POLICY

Ipilan Nickel Corporation (INC) is a mining company with a vision of creating a culture of best practices in relation to the protection of the environment in all aspects of its operations. INC believes that effective environmental management is an important strategy for protecting and conserving the environment.

INC commits to:

- **Protect** the environment and prevent pollution.

  We will strive to minimize waste generation and resource consumption; incorporate sustainability in key aspects of our operations; help in biodiversity conservation; and reduce environmental impact of our activities.

- **Comply** with environmental laws and meet all regulatory requirements that apply to our operations.

  We will establish environmental performance objectives and targets that meet the prescriptions of law; and monitor actual performance to ensure adherence to governing laws, rules and regulations.

- **Improve** our Environmental Management System.

  We will progressively enhance our environmental performance through continual improvement of our processes (including people, systems and technology). We will implement risk-based programs, adhere to sound management policies and practices, provide the necessary resources, and engage key stakeholders (employees, communities, contractors, suppliers) to ensure effective implementation of our environmental management system.

Approved by:

MARVIN LOUIE O. ARLEGUI
MEPEO

ALEX C. ARABIS
OIC-Resident Mine Manager

CARLO A. MATILAC
VP-Operations

DANTE R. BRAVO
President

JOSEPH C. SY
Chairman

Effective Date: October 01, 2022
INC-EMS-Pol-001 Rev. 01

Figure 23- INC Environmental Policy

A. Land Resources

INC is committed to the protection of the environment and has long been implementing its environmental management plans that are designed to control and minimize the adverse effects of mining operations on the environment. This commitment is underscored by the following guidelines:

a. In all mining plans, the area of exposed bare soil shall be kept to a minimum. This requires clearing of vegetation in segments, to be done only when needed and immediate rehabilitation of used-up area shall be effected. Maximum effort shall be made to save the existing vegetation.
b. Vegetation on boundaries and limits of the MPSA is kept intact to serve as buffer to adjoining areas.
c. All steep slopes, including those of the various ore stockpiles, shall be stabilized by vegetation and mechanical stabilization schemes.
d. Proper drainage systems and pollution mitigation facilities shall be provided.
e. Biodiversity restoration through rehabilitation of mined-out areas and reforestation of denuded non-mineralized areas within and outside the mining claims, shall be conducted.

1. Nursery

In order to ensure enough number of seedlings to be used for reforestation and other planting activities INC established a seedling nursery with an area of one (1) hectare with an estimated capacity of 2,000,000 seedlings of indigenous and endemic species found in the area.

The nursery is equipped with complete tools and personnel to manage. It will have support facilities such as water, road, and others

2. Nursery Operation

As of November 2023, INC Nursery has a total seedling inventory of 1,073,205 of assorted indigenous and endemic seedlings. Around 50% of the total seedlings inventory is still under recovery while the other half is ready for out planting.

As of the period the following are the tree species grown in INC's nursery:

Table 25. Species of seedlings in INC's Nursery

Agoho	Balinad	Bubog	Impao	Katel idling
Almaciga	Bamboo	Bulno-bulno	Kalasa	Katumpos Bukid
Amugis	Bangkal	Bunsicag	Kamandaan	Ketempes
Antamin	Bares	Bungtun	Kamagong	Kobi
Apitong	Batikalang/Batino	Deklay	Kandong	Kupang
Apitong balao	Beru	Dipanga	Karampos	Lamog
Apogan	Bignay	Garis	Karaskas	Laurel
Baan	Borongaw	Ipil	Kasimalao	Limbotan
Lumboy-bukid	Malakawayan	Megsado	Pakpak	Suakaw
Lumboy-lumboy	Malapaho	Narra	Pakpakyan	Suekew
Magkarampi	Malapapaya	Nato	Payuspos	Sumbiling
Magloni	Malugay	Ogayan	Pinusong	Tabigi
Magmante	Mandugyan	Palawan Cherry	Putik	Tamlang
Magpongo	Mangin-surod	Palomaria	Puti-an	Tarampuswan
Makopa-makopa	Mararanggo	Palili	Rapit	Tarongtong
Malabayabas	Megelmod	Pangi	Siar	Terungtung
Tulaang baak	Udling	Untamin	Yakal	

The above-mentioned species will be utilized by the company in its rehabilitation, restoration, and enrichment planting efforts (both for NGP and MFP).

In addition to this INC had already lodge a tree cutting application last 2022 and 2023. Based on the 100% tree inventory a total of 8,613 and 7,351 of trees will be affected respectively. Hence in preparation for the possible negative impact and in compliance to the seedling replacement scheme of the DENR, INC will produce additional seedlings.

Furthermore, to ensure proper growth and promote the health of the nursed seedlings and out planted trees, the company will also produce and procure a total of 44,590 kilograms (kg) of organic fertilizers such as vermicompost.

3. Planting Activity

Planting on areas inside and outside the MPSA will be conducted by the company. A total of 9 hectares of mined-out areas will be rehabilitated within the MPSA area of the company. In addition, before planting outside the MPSA area the company, in coordination with CENRO, beneficiaries were identified for the implementation of its NGP plan using a family approach. Initial communication with CENR-Brooke's Point and CENRO Puerto Princesa had provided the initial location of proposed planting areas which are in Sitio Bulho, Brgy. Calasaguen Brooke's Point and Brgy. Sta. Cruz, Puerto Princesa Palawan with a total of 477 and 150 hectares respectively.

For 2024 the company is planning to plant a total of 636 hectares of land both inside and outside its MPSA area and continuing its care and maintenance activity for 3 years after plantation establishment aiming for a survival rate of 85%. Species to be used for the planting activity will be the indigenous and endemic tree species found in the area that were raised in the nursery. As of this date, INC does not have mine-out areas for rehabilitation.

4. Slope Stabilization and Erosion Control

Protection of the Filantropia River (Maasin River) is one of the top priorities of INC. Slope protection and erosion control, particularly the river embankment and berms of the established stockyard areas near the Filantropia river, was already implemented. However, to further ensure the that no possible pollution of the river can be attributed to the company, INC will implement riprapping activities with a total area of 3.8 km this 2024 to protect the river and reduce riverbank erosion.

5. Topsoil Recovery and Stockpiling

The operation involves the mining/extraction of nickeliferous laterite. It is a surface mining operation using the contour mining/stripping method. Because the ore is generally soft, no blasting will be undertaken. Briefly, the process starts in the clearing of the mining area of vegetation. After clearing, the overburden consisting of soil composed of the products of weathering of the host rock mostly low-grade limonite together with any debris will be

scraped using a bulldozer. The scraped materials shall be hauled to a waste dump stockpiled for future use as filling materials of the mined-out areas.

Based on observation, the current average depth of topsoil in the mining area is at 30 centimeters. Hence, topsoil should be recovered, conserved, stockpiled, and protected in a designated waste dump, so that the physical and chemical properties will be retained.

However, since the proposed topsoil stock yard is still subjected to STCEP Application, recovered topsoil were stored temporarily in some portion of Block 38 and Block 41 (see annex 5.) Once declared as mined-out the company will immediately utilize the recovered topsoil for rehabilitation purposes.

Estimated volume of Topsoil and Subsoil to the collected for CY 2024 is 46,800 WMT

Table 26. Estimated Topsoil and Subsoil Volume from 2024

Topsoil Extracted (WMT)	
Mining Blocks	**2024**
39	19,301
41	8,694
40	5,151
37	0
34	5,701
35	7,953
42	0
2	0
5	0
6	0
1	0
32	0
44	0
Total	**46,800**

6. Access Road

To ensure that the mine haul roads of INC are stable and to reduce generation of dust, mud and unwarranted noise from the passing vehicle the company will continue its road maintenance activity using Road Graders and Compactors. A total of 8.18 km access road to be constructed for 2024 as an addition to the existing 12.12 km haul road constructed from CY 2023.

7. Buffer-zone Management

A 20-meter buffer zone will be established inwards from the mining tenement boundary and/or the outward from the edges of the normal high waterline of rivers and streams that are with the mining tenement (DAO 2018-19), this C.Y. 2023 INC conducted an

enrichment planting or assisted natural regeneration (ANR) to its buffer with a total cover area of 34 hectares which is located within the near to the active mining area

B. Water Resources

Nickel mining can have a significant impact on nearby water resources, particularly through the process of siltation. Siltation occurs when sediment and other particulate matter, such as sand and clay, are transported by water and deposited in water bodies, such as rivers, lakes, and streams. This can cause a variety of problems for aquatic ecosystems, including reduced water quality, decreased oxygen levels, and disruption of aquatic habitats.

During the nickel mining process, large amounts of earth and rock are excavated and removed from the ground. This process can result in the erosion of soil and other materials, which can then be transported by runoff and deposited in nearby water bodies. Additionally, the construction of roads, buildings, and other infrastructure associated with nickel mining can lead to increased soil erosion and sedimentation.

Siltation can have a number of negative impacts on aquatic ecosystems. It can reduce the amount of light that penetrates the water, making it difficult for aquatic plants to grow. This can also reduce the amount of dissolved oxygen in the water, which can harm fish and other aquatic organisms. Siltation can also fill in areas of shallow water, reducing habitat for aquatic animals and making it more difficult for them to find food.

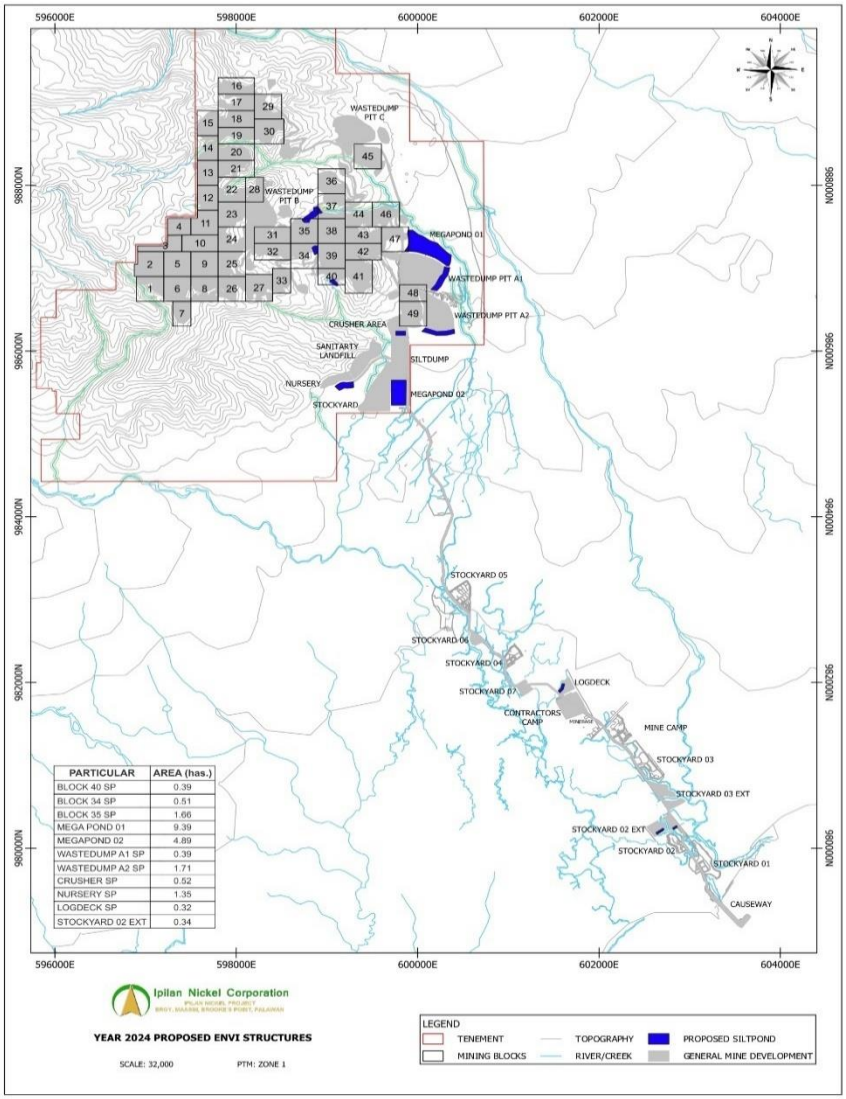
The impacts of siltation can be particularly severe in areas with already limited water resources, such as arid regions. In these areas, the deposition of sediment in water bodies can reduce the amount of available water and make it more difficult for local communities to access clean water.

To mitigate the impacts of nickel mining on water resources, Ipilan Nickel Corporation will implement re-vegetation activities and to further reduce the negative impact the following activities listed below will be implemented.

1. Construction of Storm Water and Sediment Control

INC were able to construct a number of environmental structures in the previous years. Installation and maintenance of a storm water and runoff system consisting of drainage channels check dams, cross culverts or drop structures is essential.

The system will divert flows around open areas and transport silted water to sediment traps and settling ponds. ANNEX 6 shows the mining area and its catchment with the proposed environmental structures to be constructed for 2024. The environmental structures were designed to contain sediments and run-off water during heavy rains using Central Australian Land Management as reference.



SILTPOND AREA (sq.m)	
NURSERY SP	13474.142
CRUSHER SP	5220.93
BLK 40 SP	3883.957
BLK 34 SP	5074.046
BLK 35 SP	13776.859
	2838.672
WD A1 SP	19113.847
WD A2 SP	17141.426

OUTSIDE	
	291.417
SY6 SP	632.14
	502.616
	138.801
	138.797
SY7 SP	331.833
	586.9
	506.551
LOGDECK	3238.177
	1154.754
	1151.764
SY2 EXT SP	524.999
	524.999

Figure 24- Location of proposed 2024 siltation control structures (for better appreciation please refer to Annex 7.)

2. Maintenance of Storm Water and Sediment Control

De-silting/maintenance activities will cover the existing active settling ponds and other environmental mitigating structures. De-silting involves removal of silt from the chamber/pond to the silt box/silt depository areas. All existing sediment control structures will be maintained in 2024. As of November 2023, a total of 3,368 cu. m. of silted materials were removed from sedimentation pond and other collector sumps

Table 27. Summary of Desilting Activities

SUMMARY OF DESILTING ACTIVITIES							1 bucket load = 0.50 cubic meter
Date	Equipment	Location	Total No. of Bucket Loads	Total Volume (cu.m)	Total No. of Truck Trips	Disposal Area	Remarks
						Running Total Volume	4008.00
						3RD Quarter Running Total Volume	1477.00
						4TH Quarter Running Total Volume	2531.00
November							
November 02, 2023	IBH-03 Komatsu Long Arm, IDT-16 Shackman (NFO 7462)	SP-002	132	66.00	6	Lot 34	On-going
November 04, 2023	IBH-03 Komatsu Long Arm, IDT-16 Shackman (NFO 7462)	SP-002	220	110.00	10	Lot 34	On-going
November 05, 2023	IBH-03 Komatsu Long Arm, IDT-16 Shackman (NFO 7462)	SP-002	230	115.00	10	Lot 34	On-going
November 06, 2023	IBH-03 Komatsu Long Arm, IDT-16 Shackman (NFO 7462)	SP-002	210	105.00	10	Lot 34	On-going
November 07, 2023	IBH-03 Komatsu Long Arm, IDT-16 Shackman (NFO 7462)	SP-002	210	105.00	10	Lot 34	On-going
November 08, 2023	IBH-03 Komatsu Long Arm, IDT-16 Shackman (NFO 7462)	SP-002	25	12.50	1	Lot 34	On-going
November 09, 2023	IBH-03 Komatsu Long Arm, IDT-16 Shackman (NFO 7462)	SP-002	115	57.50	5	Lot 34	On-going
November 10, 2023	IBH-03 Komatsu Long Arm, IDT-16 Shackman (NFO 7462)	SP-002	230	115.00	10	Lot 34	On-going
November 11, 2023	IBH-03 Komatsu Long Arm, IDT-16 Shackman (NFO 7462)	SP-002	115	57.50	5	Lot 34	On-going
November 14, 2023	IBH-03 Komatsu Long Arm, IDT-16 Shackman (NFO 7462)	SP-002	160	80.00	8	Lot 34	On-going
November 15, 2023	IBH-03 Komatsu Long Arm, IDT-16 Shackman (NFO 7462)	Adjacent ST of ST 11	391	195.50	17	Lot 34	Done
November 16, 2023	IBH-03 Komatsu Long Arm, IDT-16 Shackman (NFO 7462)	SP-002	111	55.50	5	Lot 34	On-going

3. Waste Management

Hazardous Waste Management

INC ensures that hazardous wastes generated from various sources are properly managed in accordance to the regulatory requirements.

Product wastes generated are used oils, busted fluorescent lamps, used lead-acid batteries, among others and, if not properly collected, shall also contaminate water resources and waterways. In the case of INC, these materials are presently collected and temporarily stored in a Temporary Hazardous Waste Storage Facility (THWSF). The product wastes are properly segregated and stack in a crate for proper air ventilation. The concrete flooring is slightly slanted and provided with a gutter. The lowest point of the flooring is provided with one unit of water-oil separator.

The following are the control strategies that will be undertaken for handling hazardous materials:

a. In case of accidental leaks and spillage from diesel storage tanks and diesel handling, the equipment must be provided with a containment enough to handle in case of any leaks;

b. An oil and water separator will be constructed to ensure that the bodies of water will be free from any impurities during runoff/flooding;

c. Provision of an emergency oil spill boom along the approach of Causeway and every outlet of all sediment control structures and prepare emergency chemical clean-up in case of the oil will spill over the bodies of water and

Solid Waste Management

The Organization maintains that solid wastes generated are properly managed in an environmentally-sound manner in accordance with the RA 9003. It gives an emphasis on waste reduction thru recycling, reducing, refusing/rejecting and reusing programs.

The activity involves collection, segregation of the remaining unsegregated wastes and disposal/storage to designate disposal and Material Recovery Facility (MRF) areas. Moreover, provision of segregation facilities to applicable locations of the camp and mine site, maintenance, and repair of segregation facilities and MRF, and monitoring/quantifying of generated wastes are also conducted.

The company have planned to have its own ecological solid waste management facility (sanitary landfill) to accommodate the solid waste generation of the company and its contractors to be established within the MPSA tenement.

4. Water Quality Monitoring

Regular monitoring of the ambient, marine, ground water and wastewater discharge will be conducted by the company through its Mine Environmental Protection and Enhance Office. Monthly monitoring of the Total Suspended Solid (TSS) and other related physico-chemical properties will be carried out by the company using the purchased environmental monitoring tools (e.g., Horiba Multi-parameter probe, Hach Colorimeter, etc.).

Subsequently, water samples will be sent to a DENR-EMB accredited testing laboratory on a quarterly basis to analyze the physico-chemical and heavy metal contents of water samples.

No record of siltation due to different environmental structures within the INC tenement such as in-pit siltation ponds, connecting canals, silt collector sumps and check dams. The company also installed geotextile along connecting canals, discharge point of siltation ponds and check dams to arrest a heavily silted water run-off from the mining areas.

5. Installation of Silt Curtain

Initially, Ipilan Nickel Corporation's bleaching area have a "T" shape and with a total length of 100 meters, however based on hydrographic survey results the company opted to change the design from "T" shape to "L" shape with a total length of 150 meters.

As of November 2023, INC had already installed a 200-meter silt curtain in the causeway's bleaching area. For 2024 Additional 350 meters will be installed to the bleaching area to cover the additional 50-meter extension.

A silt curtain, also referred to as a turbidity curtain or silt screen, serves as a crucial barrier in aquatic environments to control and contain sediment dispersion arising from mining operation (loading activities). Its fundamental purpose lies in mitigating the environmental impact on water bodies. Acting as a frontline defense, the curtain controls the movement of sediment, preventing its widespread distribution beyond the immediate areas. This not only maintains water clarity and quality but also safeguards aquatic ecosystems from the adverse effects of excessive turbidity. By contributing to the preservation of delicate aquatic habitats and adhering to stringent environmental regulations, silt curtains play a pivotal role in minimizing ecological disturbance.

C. Air Quality

Nickel mining can have a significant impact on air quality, particularly during the mining and processing of the ore. The primary source of air pollution from nickel mining is the release of particulate matter (TSP, PM 10 and PM 2.5) emissions into the air.

Particulate matter refers to a mixture of solid particles and liquid droplets that are suspended in the air. These particles can be harmful to human health when inhaled, particularly if they are small enough to penetrate deep into the lungs. The mining process can release large amounts of particulate matter into the air, which can lead to respiratory problems and other health issues for nearby communities.

To mitigate the impact of nickel mining on air quality, Ipilan Nickel Corporation will implement various pollution control technologies, such as; (a) Road Watering, (b) Street Sweeping, and (c) installation of automatic water sprinkler on top of the maintenance of its haul road and establishment of green corridors.

Since its operation, INC did not receive any formal complaint regarding adverse effect of dust emission due to regular conduct of dust control/suppression activity such as road watering and street sweeping. Additionally, regular monitoring on the air quality will be conducted on a regular basis.

1. Dust Control / Suppression

Road Watering

As of November 2023, INC has a five (5) functional water truck covering an area of 10 km for road watering. To date 185,551 cu. m.. of water were already used for the activity by 2024, road watering activity will cover the ten (10) km mine haul road. Based on the projected operating days these water trucks will continuously water the haul roads for 200 days. This activity requires a total of 6,720,000.00 Php to be implemented.

Street Sweeping

Continuation on the implementation of street sweeping activity in front of the INC campsite in Brgy. Maasin. A total of one (1) kilometer will be maintain from Tagdidili bridge to the entrance of So. New Panay, maximum of ten (10) personnel will be hired to ensure that the road is free from mud and dust to keep it safe.

D. Noise and Vibration

Noise will be generated by equipment and machinery when mine operations commence. Other than acoustic insulation measures, no further mitigation is necessary at this time. However, monitoring of ambient noise levels at various distances away from the mine site should be done to determine actual noise levels during operation. These measurements should be compared to noise standards and where maximum allowable levels are exceeded and attributed to plant operations, additional acoustic insulation may be installed around noise-generating equipment or activities.

E. Conservation Values

Nickel mining can have a significant impact on visual aesthetics, both in the immediate vicinity of mining operations and in surrounding areas. This is due to the visual changes that occur as a result of mining activities, such as the creation of large open pits, waste rock piles, and tailings dams.

The extraction and processing of nickel ore often involve the removal of vegetation, which can result in the loss of natural landscapes and wildlife habitats. This can cause significant changes to the appearance of an area and reduce the aesthetic appeal of the landscape. In addition, mining operations can generate significant amounts of dust, noise, and vibration, which can further impact the visual aesthetics of an area.

Furthermore, the use of heavy machinery and the construction of roads and infrastructure associated with mining activities can significantly alter the natural topography of an area, resulting in the creation of artificial landforms that can be visually jarring.

These impacts can extend beyond the immediate vicinity of mining operations, as changes to the visual aesthetics of an area can affect tourism, recreation, and other economic activities that depend on the natural beauty of a region. In addition, the release of pollutants and other contaminants associated with nickel mining can further degrade air and water quality, leading to additional visual impacts.

To minimize the visual impacts of nickel mining, it is important to implement effective environmental management practices, including the reclamation and rehabilitation of mined areas, the use of dust suppression techniques, and the implementation of noise and vibration controls. It is also important to engage with local communities and stakeholders to ensure that their concerns are heard and addressed throughout the mining process.

Apart from this to improve visual aesthetic of the area, Ipilan Nickel Corporation established an ECO PARK in its Old Campsite, wherein a mini-hydro electric generator is situated. This mini-hydro electric generator provides electricity to the nearby Indigenous Cultural Community (ICC) in So. Mararag.

To further improve the aesthetic value of the eco-park particularly the old campsite INC will establish a herbarium to serve as depository of forest tree specimen found within its MPSA to aid future studies and information education and communication campaigns of the company.

1. Establishment of Biodiversity Assessment and Monitoring System (BAMS) w/n MPSA.

To aid in further conservation studies and information, education and communication activities of the company a Biodiversity Assessment and Monitoring System (BAMS) will be established to evaluate and track the variety, abundance, distribution, and health of

living organisms within the MPSA of INC. The primary goal of such a system is to provide valuable information for conservation, management, and decision-making processes. Biodiversity assessments help understand the state of biological diversity, identify threats, and inform strategies for sustainable resource use and habitat protection.

Implementing a Biodiversity Assessment and Monitoring System (BAMS) in a mining company is crucial for responsible environmental stewardship. Mining operations can have significant impacts on local ecosystems, and integrating a BAMS can help mitigate these impacts, support sustainable practices, and ensure compliance with environmental regulations..

F. Heritage and Cultural Values

Support for the indigenous communities is always an integral and vital part of the social development and management program of INC. The company assisted in different ways from installing water pumps up to support for the hospitalization as well as financial assistance to celebrate cultural rituals. Also, as part of the provision of the FPIC-MOA, an annual budget of P17.5 million is allocated by the company to fund various projects from 2022 – 2025 which represents CSR and advance royalties.

It is estimated that there are 21,000 people of indigenous origin, living in different indigenous communities in the mountains of Brooke's Point. They are engaged in various production activities including swidden farming in mountain slopes, settled or sedentary agriculture of rice, corn and vegetables, hunting, tapping of almaciga, gathering of honey and rattan, livestock raising, and making local handicrafts (Comprehensive Land Use Plan, 2015-2025).

Out of the total municipal area, a Certificate of Ancestral Land Claim (CALC) encompassing an area of 725.00 hectares was already granted to Samahan ng mga Palawano sa Amas with 176 members/ beneficiaries on June 5, 1992. However, there were no CALC or CADT had been issued yet that may cover the INC tenement.

G. Social Issues

Mining, to some extent, has negative impacts on the environment and the community, but its adverse effect could be mitigated and the advantages/benefits derived from the project by the community far outweigh the negatives impacts. Today, INC is an example of how a mining company had transformed and brought the once remote, underdeveloped and less inhabited Brgy. Maasin into the portals of civilized world in just a span of one year of its operation. The provisions of community infrastructures, employment opportunities and other amenities have attracted a many to work and/or do business in the newly-established mining community. Indeed, mining does not displace communities and livelihood but, instead, propels socio-economic progress of a host community under a sustainable framework of development.

The whole mining industry is now challenged and entrusted with responsibility of meeting the need for minerals without compromising the interests of the future. It assumes a collective responsibility to advance and strengthen the

interdependent and mutually enforcing pillars of sustainable development --- economic development, social development, and environmental protection --- at the local, national, regional, and global levels (UN 2002a). Efforts have advanced the understanding of mining practices designed to protect the environment, contribute to local communities, and build value into economy. Sustainability in mine management deals with strategy for operational efficiency, enhanced stakeholder relationships and responsible management of environmental issues.

Ipilan Nickel Corporation accepted the challenge and has stated its commitment to the values of sustainability – and to become one of the face of responsible mining in the Philippines.

Today INC still faces significant social issues especially in communities where it is located. Some of the potential impacts include:

a. Land Displacement
b. Environmental pollution: Mining activities can also result in environmental pollution, which can negatively impact the health of nearby communities. This can lead to respiratory problems, skin irritation, and other health issues, which can affect the well-being of individuals and communities.
c. Labor practices
d. Human rights abuses

In order to address possible social issues, INC formulated the following development strategies particularly in the implementation of its Social Development and Management Plan (SDMP)

INC's 5-year SDMP was guided by sustainability, equitability, and people empowerment. Sustainability ensures continuity in the implementation of programs and projects to improve the quality of life of the people during and after the mine. Equitability is the proper appropriation of benefits so that all sectors of the community, particularly the marginalized and disadvantaged, have received equal opportunity to participate in programs and projects. People empowerment capacitates the community is project management and personal skills development. By empowering the community, they become a partner in pursing the development agenda of the LGU and the INC.

INC follows explicitly the objectives of SDMP, which are the following:

1. Meet the basic needs of the mining communities, enhance human welfare and prevent/ reduce social ills;
2. Optimize the advancement of human resources, which includes grassroots development and people empowerment to attain self-help, self-reliant, and self-managed community.
3. Provide opportunities for a self-sustained livelihood, thus decreasing dependency on the benefits derived from the mining processing companies.

4. Promote conservation and intellectual use/ management of the environment vis-i-vis the community and mining activities; and
5. To protect the socio-cultural values amidst improved economic conditions and human advancement.

It is the goal of the company to see a vibrant community, where everyone maximizes the benefits brought by the project and working hand in hand to meet the aspirations of the people.

INC will always take part in pushing for change in the quality of life of the people by inculcating the value of hard work, benefit optimization, vigilance in ensuring that the projects are well- managed, and the resources are efficiently used.

Based on the discussion during the planning/ consultation session with the communities in the host and neighbouring barangays, there were challenges met during the implementation of programs and projects of the LGU, which should not be repeated in the SDMP implementation. There is a need to change the perspectives and values of the people. Something that will not happen immediately but a process that everyone must be willing to go through.

Table 28. Paradigm Shift and Strategies

FROM	TO
Project mismanagement	Communities capable of project management because they possess the necessary skills in project management
Individual benefits/ Personal gain	Equitable distribution of benefits among community members through the formulation of associations, cooperatives, and groups.
Less impact projects	High impact projects because these are well-thought, well planned and guided by government agencies/ private institutions.
Not giving importance to the project	High appreciation of the P/P/As after realizing that mining is not a renewable resource. ComRel will endeavor to slowly change the values of the people.
Unclear project management roles	MOAs, policies, and guidelines will define the roles and accountabilities of every stakeholder
Fund mismanagement	Clear guidelines on fund management are already set by the MGB and must be strictly followed.

IV. Environmental Monitoring

The Environmental Monitoring Plan (EMoP) provides the proponent with preventive guidelines for the management of environmental impacts that may be produced during the pre-operation, operation and decommissioning phases of the project. The EMoP includes information on the parameters to be monitored, locations where the monitoring will be conducted, frequencies of monitoring, monitoring procedures and estimated costs to conduct the monitoring. During the construction and operational phase, monitoring of the water quality, ambient air quality and noise quality will be conducted quarterly. Similarly, water, air and noise quality will be monitored quarterly during the operation

phase. Marine and terrestrial ecology will be monitored during the operation phase semi-annually and annually, respectively.

A. Water Quality Monitoring

As mentioned in 3.B.4 water quality monitoring will be conducted on a monthly (in-house) and quarterly (third party) basis. Samples will be collected in identified sampling locations (please see Annex 8). A total of Php969,180.00 is allotted for the water monitoring activities.

B. Air Quality and Noise Monitoring

Air quality monitoring of Total Particulate Matter (TSP) and PM 10 is undertaken quarterly at eight (8) identified sampling stations using the duly purchased E-Sampler MET-ONE Particulate Monitor.

Noise monitoring will also be conducted in the same sampling stations. Please refer to Annex 9.

Table 29. Approach and Scope of Environmental Monitoring Programs

Source of Impacts	Parameters Considered	Purpose of Monitoring	Monitoring Methods	Monitoring Locations	Monitoring Frequency
Water Quality	Total Suspended Solid (TSS) and other related physico-chemical properties and Heavy metals based on the Philippine Standard Industry Code (PSIC) of DAO 2016-08.	Compliance to RA 9275, Environmental Impact Assessment (EIA), Environmental Monitoring Plan (EMoP), Annual Environmental Protection and Enhancement Program (AEPEP) and input to EMB reportorial requirements such as Self-Monitoring Report (SMR) and Compliance Monitoring Report (CMR).	Monthly Monitoring: In-situ measurements using Multi-parameter Water Quality Checker (HORIBA) and HACH for TSS and Color Third Party Testing: In-situ measurements and grab sampling for third party testing.	See Annex 8	Monthly inhouse monitoring and Quarterly Third-Party Testing *(DENR Accredited Laboratory)*

Source of Impacts	Parameters Considered	Purpose of Monitoring	Monitoring Methods	Monitoring Locations	Monitoring Frequency
Air quality	Total Particulate Matter (TSP) and PM 10	Compliance to RA 8749, Environmental Impact Assessment (EIA), Environmental Monitoring Plan (EMoP), Annual Environmental Protection and Enhancement Program (AEPEP) and input to EMB reportorial requirements such as Self-Monitoring Report (SMR) and Compliance Monitoring Report (CMR).	Monthly in-house monitoring of ambient air concentrations of Total Suspended Particulate (TSP), Particulate Matter 10 and 2.5 (PM10 & PM2.5) using E-Sampler.	See Annex 9	Monthly inhouse monitoring for 8 identified sampling stations

Table 29- Estimated Budget Requirement to reduce impacts

Activity	Affected Resources/Areas	Foreseen Impacts	Mitigating Measures	Estimated Budget
Water Quality Monitoring	Rivers, connecting tributaries, ground water and marine water	Water pollution due to the exceedances of the identified parameters that may affect the identified resources/areas	Establishment of In-pit siltation ponds, connecting canals, silt collector sumps and installation of filtering system using geotextile as reflected in the mine drainage plan of the company. Regular inspection of all environmental structures and desilting activity is conducted.	Construction of Sedimentation Pond = Php66/cu. m. Construction of Collector Sumps = Php66/cu. m. Maintenance of SP = Php35.64/cu. m. Maintenance of Collector Sumps = Php35.64/cu. m. Maintenance of Drainage Canal = Php12,500/km Testing = Php969,180.00

Air Quality Monitoring	Community areas near mine haul road.	Air pollution due to the increase of TSP level from the operation.	Imposition of speed limit, road maintenance and mine haul road watering activities.	Road Watering = Php6,720,000.00 Street Sweeping = Php1,115,600.00

V. Research Paper

Research activity particular to the gathering of baseline environmental data and condition for the years of operation of INC will be conducted. This research activity will serve as the epitome of environmental data and serve as basis for corrective and preventive measures of the company.

For 2024, a comprehensive study on the Forest Carbon Storage Estimation and Emission Management Program within the area of operation of the company will be conducted. This research study delves into the critical intersection of mining activities, forest ecosystems, and carbon management. Focused on the implementation and efficacy of a Forest Carbon Storage Estimation and Emission Management Program in mining sites, the study aims to provide a thorough analysis of the program's impact on carbon sequestration, emissions reduction, and the overall environmental sustainability of mining operations.

Research Objectives:

1. Evaluate the Effectiveness of Carbon Storage Estimation:
   - Utilize remote sensing technologies and on-site measurements to assess the baseline carbon storage capacity in and around mining sites.
   - Analyze the dynamic changes in carbon stocks over time, considering factors such as deforestation, reforestation, and ecosystem regeneration.

2. Assess the Impact of Emission Management Strategies:
   - Identify and quantify sources of carbon emissions associated with mining activities.
   - Evaluate the adoption and effectiveness of eco-friendly technologies and emission reduction measures.

3. Examine Biodiversity Dynamics:
   - Integrate biodiversity mapping into the carbon storage estimation process.
   - Assess the correlation between biodiversity conservation efforts and the carbon sequestration potential of forest ecosystems
   .
4. Analyze Community Engagement and Social Impact:
   - Investigate the level of stakeholder collaboration, including mining companies, local communities, government agencies, and environmental organizations.

- Examine the socio-economic benefits and challenges associated with the program, focusing on job creation and community empowerment.

Methodology:

1. Data Collection:
   - Utilize satellite imagery, GIS tools, and on-site measurements for baseline carbon storage estimation.
   - Collect data on mining-related emissions, technology adoption, and biodiversity dynamics.

2. Statistical Analysis:
   - Employ statistical methods to analyze the dynamic changes in carbon stocks and emissions over time.
   - Correlate biodiversity data with carbon sequestration metrics to identify areas of high conservation value.

3. Case Studies:
   - Select representative mining sites for in-depth case studies, considering geographical and ecological diversity.
   - Analyze the specific challenges and successes of the Forest Carbon Storage Estimation and Emission Management Program in different contexts.

Results and Discussion:

1. Carbon Storage Trends:
   - Present findings on the baseline carbon storage capacity and its evolution over the study period.
   - Highlight the impact of reforestation initiatives and ecosystem regeneration on carbon sequestration.

2. Emission Reduction Impact:
   - Showcase the effectiveness of emission management strategies in reducing the carbon footprint of mining activities.
   - Discuss the correlation between technology adoption and emissions reduction.

3. Biodiversity and Carbon Sequestration Correlation:
   - Establish a link between biodiversity conservation efforts and the carbon sequestration potential of forest ecosystems.
   - Discuss the implications for integrated conservation and carbon management strategies.

4. Community Engagement and Social Impact:
   - Evaluate the level of stakeholder collaboration and its impact on the success of the program.

- Discuss the socio-economic benefits, challenges, and lessons learned from community engagement initiatives.

Table 30. Gantt Chart of Activities for Forest Carbon Storage Estimation and Emission Management Program

	Q4					
Activities	**M1**		**M2**		**M3**	
Contract Signing						
Submission of Inception Report						
Survey and Mapping						
Interim Report Submission						
Primary (Social) Data Collection						
Secondary Data Collection						
Reportorial Writing						
Final Report Submission						

Table 31. Schedule of Reportorial Submission to MGB-MIMAROPA

Reportorial Requirement	Deadline of Submission
1st Quarter 2023 SMR	Two (2) weeks after end of the first quarter
2nd Quarter 2023 SMR	Two (2) weeks after end of the second quarter
3rd Quarter 2023 SMR	Two (2) weeks after end of the third quarter
4th Quarter 2023 SMR	Two (2) weeks after end of the fourth quarter
1st Sem MWTF	Forty-five (45) days after end of the first semester
2nd Sem MWTF	Forty-five (45) days after end of the second semester
1st Sem MFP	Two (2) weeks after end of the first semester
2nd Sem MFP	Two (2) weeks after end of the second semester
1st Quarter NGP	Two (2) weeks after end of the first quarter
2nd Quarter NGP	Two (2) weeks after end of the second quarter
3rd Quarter NGP	Two (2) weeks after end of the third quarter

4th Quarter NGP	Two (2) weeks after end of the fourth quarter
Annual EPEP Report	Thirty (30) days after the end of the calendar year

VI. Total Cost of INC's Annual Environmental Protection and Enhancement Program for C.Y. 2024.

Over all, the budget for the company's 2024 AEPEP is PhP 105,685,811.76. Presented in the table below is the complete allocation of the aforementioned amount with their corresponding physical target.

Table 32. Annual Environmental Protection and Enhancement Program 2024

Activities	Unit of Measure/ Unit Cost	Target (Physical/Financial)					Remarks
		1Q	2Q	3Q	4Q	Annual	
I. LAND RESOURCE (35%)							
Active Mininng Area:							
Mined out Areas Previous Year: Current Year: 9							Land Use
A. Progressive Rehabilitation of Mined - Out Areas							
A.1. Backfilling	hectare		9			**9.0**	Block 38
	100,000/has	-	900,000.00		-	**900,000.00**	
A.2. Re-countourina/Reshapina/Benching	hectare		9			**9.0**	Block 38
	100,000/has	-	900,000.00		-	**900,000.00**	
A.3. Reforestation	hectare			9		**9.0**	Block 38
	seedlings			22,500		**22,500**	
	40000/hectare	-	-	360,000.00	-	**360,000.00**	
B. Mining Forest Program (MFP) and National Greening Program (NGP)							
B.1 Maintenance: Enrichment Planting	hectare	26.98	37.45	26.98	37.45	128.86	Total hectares to be maintained
Latest	2023		11.71		11.71	**23.42**	replacement Planting, fertilization, ring weeding, vine removal
New	2022		25.74		25.74	**51.48**	
Recent	2021	26.98		26.98		**53.96**	
	8,000/has	215,840.00	299,600.00	215,840.00	299,600.00	**1,030,880.00**	
B.2 NGP							
B.2.1. Adopt-an-NGP						-	
B.2.1.1 So. Bulho Brgy. Calasaguen	hectare	477				**477**	Spacing @ 2x1 m to be planted by indigenous and endemic trees
	10,500/has	5,008,500.00				**5,008,500.00**	
B.2.1.2 So. Nagsaguipi, Brgy. Sta. Cruz	hectare	150	0	0	0	**150**	
	20,000/has	3,000,000.00				**3,000,000.00**	
B.2.2. Maintenance							
B.2.2.1 Mangrove	hectare	25		25		**25**	2nd Year Maintenance of Enriched Mangrove Area in Brgy. Abo-abo, Panitian and Punang S. Espanola
	3/seedling/ha	750,000.00		750,000.00		**1,500,000.00**	
B.2.2.2 So. Bulho Brgy. Calasaguen	hectare	103.40	103.40	155.10	155.10	**517.00**	Maintenance of Enriched Plantaiton areas is Calasaguen
	10,000/ha	1,034,000.00	1,034,000.00	1,551,000.00	1,551,000.00	**5,170,000.00**	
C. Nursery Operations							
C.1. Seedling Production	seedlings	21,730	21,730	21,730	21730	86,920	
	18/seedling	391,140.00	391,140.00	391,140.00	391,140.00	**1,564,560.00**	
C.2 Seedling Maintenance	seedlings	684,397	706,127	727,857	749,587	**2,867,968**	Current Seedling Inventory is 1,160,645.
	0.75/seedling	513,297.75	529,595.25	545,892.75	562,190.25	**2,150,976.00**	
C.3 Nursery Infrastructure							
C.3.1 Auxilliary Facility : Vermicomposting/Organic Fertilizer Production	activity	1	1	1	1	**1**	
	kg	11,148	11,148	11,148	11,148	**44,590**	
	6/kg	66,885.00	66,885.00	66,885.00	66,885.00	**267,540.00**	
D. Slope Stabilization and Erosion Control							
D.1. Other Slope Stabilization and Erosion Control Activities: RIPRAPPING of Bundwalls along Stockyard	m		1277.23	1277.23	1277.23	**3,831.69**	3.8 km long x average height 2.15m
	3475.36/m	-	4,438,834.05	4,438,834.05	4,438,834.05	**13,316,502.16**	

Activities	Unit of Measure/ Unit Cost	Target (Physical/Financial)					Remarks
		1Q	2Q	3Q	4Q	Annual	
I. LAND RESOURCE (35%)							
E. Topsoil/Subsoil Management							
E.1 Topsoil/Subsoil Recovery	WMT	23,400	23,400			46,800	Stripping of mining blocks 34,35 and 40
	cu.m.	7,020	7,020	-	-	14,040	
	25/wmt	585,000.00	585,000.00	-	-	1,170,000.00	
E.2 Stockpiling	WMT	23,400	23,400	-	-	46,800	Hauling of topsoil to designated topsoil stockyard
	65/wmt	1,521,000.00	1,521,000.00	-	-	3,042,000.00	
E.3 Soil Testing	No. of test/quarter				1.00	1.00	MC, pH, N, P, K, OM
	7,000	-	-	-	7,000.00	7,000.00	
F. Access Road							
F.1 Construction of Access Roads	kilometer	4.09	4.09	-	-	8.18	
	3,000,000/km	12,270,000.00	12,270,000.00	-	-	24,540,000.00	
F.2 Maintenance of Access Roads	kilometer	2.045	2.045	2.045	2.045	8.18	
	300,000/km	613,500.00	613,500.00	613,500.00	613,500.00	2,454,000.00	
G. Buffer zone Establishment/Management							
G.1 Maintenance of bufffer zone: Enrichment Planting Along Bufferzones	hectare	5	5	5	5	20	locations of buffer zone: river banks inside MPSA
	8,000/hectare	40,000.00	40,000.00	40,000.00	40,000.00	160,000.00	
II. WATER QUALITY AND RESOURCE (20%)							
A. Maintenance of Pollution Control Structures through Desilting							
A.1 Siltation/Settling Ponds	m^3	58,250	58,250	58,250	58,250	233,000	
	35.64/m^3	2,076,030.00	2,076,030.00	2,076,030.00	2,076,030.00	8,304,120.00	
A.2 Collector Sumps	m^3	3785	3785	3785	3785	15,140	
	no. of collector sumps	30	30	30	30	120.0	
	35.64/m^3	134,897.40	134,897.40	134,897.40	134,897.40	539,589.60	
A.3 Drainage Canal/System	kilometer	12	12	5.1	5.1	34.2	
	12,500/km	150,000.00	150,000.00	63,750.00	63,750.00	427,500.00	
B. Construction of Pollution Control Structures							
B.1 Siltation/Settling Pond	m^3		57,333	57,333	57,333	171,998	
	no. of settling pond	14	1	1		16	
	66/m^3	-	3,783,956	3,783,956	3,783,956	11,351,868.00	
B.2 Collector Sumps	m^3	3028	3028			6,056	
	no. of collector sumps	11	11	11	11	44	
	66/m^3	199,848.00	199,848.00	-	-	399,696.00	
C. Solid Waste Management							
C.1 Collection/Storage/Handling/Disposal	ton	5	5	5	5	20.0	
	10,000/ton	50,000.00	50,000.00	50,000.00	50,000.00	200,000.00	
D. Hazardous Waste Management							
D.1 Collection/Storage/Handling/Disposal	ton	4.5	4.5	4.5	4.5	18.0	
	10,000/ton	45,000.00	45,000.00	45,000.00	45,000.00	180,000.00	

Activities	Unit of Measure/ Unit Cost	Target (Physical/Financial)					Remarks
		1Q	2Q	3Q	4Q	Annual	
II. WATER QUALITY AND RESOURCE (20%)							
E. Water Quality Monitoring							
E.1 In - house	No. of sample	87	87	87	87	**348**	29 Sampling Stations conducted on a monthly basis. Samples to be tested for physico-chemical and heavy metal. One sample per test per sampling station. Parameters are as follows: As, Ni, Cd, Cr+6, Mn, TSS, BOD, pH, DO, Color, Pb
	No. of sampling activity	3	3	3	3	**12**	
		72,000.00	72,000.00	72,000.00	72,000.00	**288,000.00**	
E.2 Third Party	No. of sample	29	29	29	29	**116**	29 Sampling Stations, conducted on a quartery. Samples to be tested for physico-chemical and heavy metal. One sample per test per sampling station.Parameters are as follows: As, Ni, Cd, Cr+6, Mn, TSS, BOD, pH, DO, Color, Pb
	No. of sampling activity	1	1	1	1	**4**	
	8,355/sample	242,295	242,295	242,295	242,295	**969,180.00**	
F. Other Water Quality and Resource Environmental Activities							
F.1 Installation of Silt Curtain	activity	200		100		**300**	Installation of silt curtain @ causeway
	8650/m	1,730,000.00		865,000.00		**2,595,000.00**	
F.2. Installation of Bio-indicator in the causeway area	activity		1			**1**	Fish and lobster production and growing cages
	300,000		300000			**300,000.00**	
III. AIR QUALITY (20%)							
A. Dust Suppression							
A.1 Water Spraying	kilometer	10	10	10	10	10	10 km haul road, 1hr cycle time, No. of WT 4
	168,000/km/quarter	1,680,000.00	1,680,000.00	1,680,000.00	1,680,000.00	**6,720,000.00**	
A.2 Street Sweeping	kilometer	1	1	1	1	1	From Tagdidili Bridge to Entrance of New Panay (1km). 10 pax
	278900/km/quarter	278,900.00	278,900.00	278,900.00	278,900.00	**1,115,600.00**	
B. Air Quality Monitoring	sample	8	8	8	8	28	8 sampling stations. 3 sampling activity per quarter (1 per month)
	no. of sampling/quarter	3	3	3	3	3	
	2,513/quarter	2513	2513	2513	2513	**10,050.00**	
IV. NOISE AND VIBRATION (10%)							
A. Noise and Vibration Level Monitoring	sample	8	8	8	8	32	8 sampling stations
	no. of sampling activity	6	6	6	6	6	Day time and night time sampling per month
	2,513/quarter	2513	2513	2513	2513	**10,050.00**	
V. CONSERVATION VALUES (5%)							
A. Conduct of Biodiversity Assessment and Monitoring System (BAMS) w/n MPSA	activity	1				1	
	300,000/activity	300,000				**300,000.00**	
VI. Environmental Research							
A. Forest Carbon Storage Estimation and Emmission Management Program	research				1	1	
	2,000,000				2,000,000.00	**2,000,000.00**	

Activities	Unit of Measure/ Unit Cost	Target (Physical/Financial)					Remarks
		1Q	2Q	3Q	4Q	Annual	
VII. OTHERS (5%)							
A Inspection/Monitoring/Audit							
A.1 MMT Inspection	No. of inspection	1	1	1	1	4	
A.2 MMT Uniform	No. of pax	288,500	288,500	288,500	288,500	1,154,000	
A.3 SHES Audit	No. of audit	36				36	
A.4 EMB Semi-Annual Compliance Monitoring	No. of audit	72,000.00				72,000.00	MMT Members both primary and alternate
A.5 ISO 14001:2015 Audit	No. of audit			1		1	
A.6 Envi Tools Calibration	lot			77,400.00		77,400.00	
B. Meetings/Trainings			1		1	2	
B.1 MRFC Meeting	activity		77,400.00		77,400.00	154,800.00	
B.2 PCO		1				1	ISO 14001:2015 Surveilance Audit for Y2 5.5days
B.3 AutoCAD		200,000.00				200,000.00	
B.4 GIS					1		
B.5 MMT Reorientation						300,000.00	300,000.00
B.6 ANSMEC							
		2	1	1	1	5	
C. IEC Programs/Activities	activity	293,600.00	146,800.00	146,800.00	146,800.00	734,000.00	
C.1 IEC Activities			1			1	
C.2 Environmental Month Celebration			1			1	
		1		1		1	
					1	1	
		58,000.00	18,000.00	15,000.00	350,000.00	441,000.00	
	activity						
		1	1	1	1	4	
			1			1	
		50,000.00	150,000.00	50,000.00	50,000.00	300,000.00	
					TOTAL 2024 AEPEP Budget	**105,685,811.76**	

Prepared by:

MARVIN LOUIE O. ARLEGUI
MEPEO/PCO

Reviewed by:

SEGUNDO A. VILLANUEVA
Assistant Resident Mine Manager

Approved by:

CARLO A. MATILAC
Senior Vice President - Operation

VII. Name and Signature of Person/s who prepared the AEPEP

Prepared by:

Marvin Louie O. Arlegui
MEPEO

Concurred by:

Engr. Segundo A. Villanueva
Assistant Resident Mine Manger
Mining Engineer (PRC Lic. No.: 0001506)

Noted by:

Alex C. Arabis
Resident Manager

Approved by:

Carlo A. Matilac
Senior Vice President - Operation

VIII. Plan(s)/Map(s) of Proposed Operation

ANNEX 1: APPROVED SURVEY PLAN

MGB Form No. 25-3 (Revised: April 14, 2000)

MPSA 017-93-IV (BOUNDARY)

[illegible]

CONT. OF MPSA 017-93-IV (BOUNDARY)

[illegible]

MPSA 017-93-IV VS. MPSA 220-2005-IVB, AREA 1

[illegible]

MPSA 017-93-IV VS. MPSA 220-2005-IVB, AREA 2

[illegible]

MPSA 017-93-IV VS. MPSA 220-2005-IVB, AREA 3

[illegible]

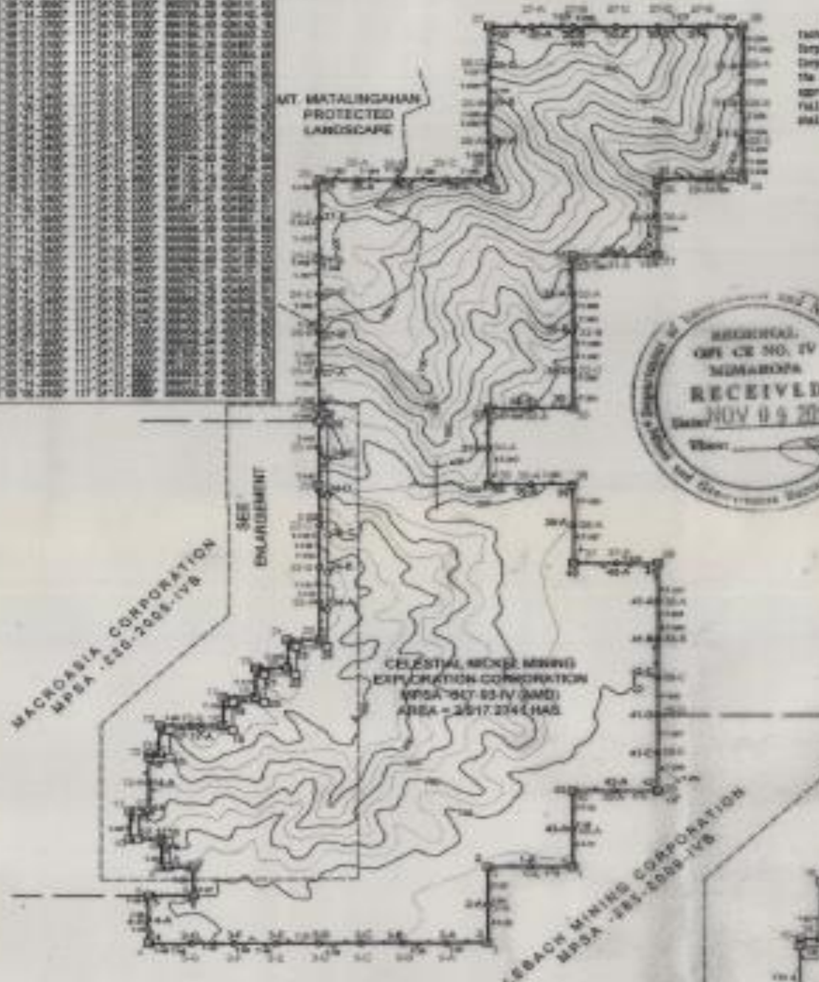
MPSA 017-93-IV (AMD)

[illegible]

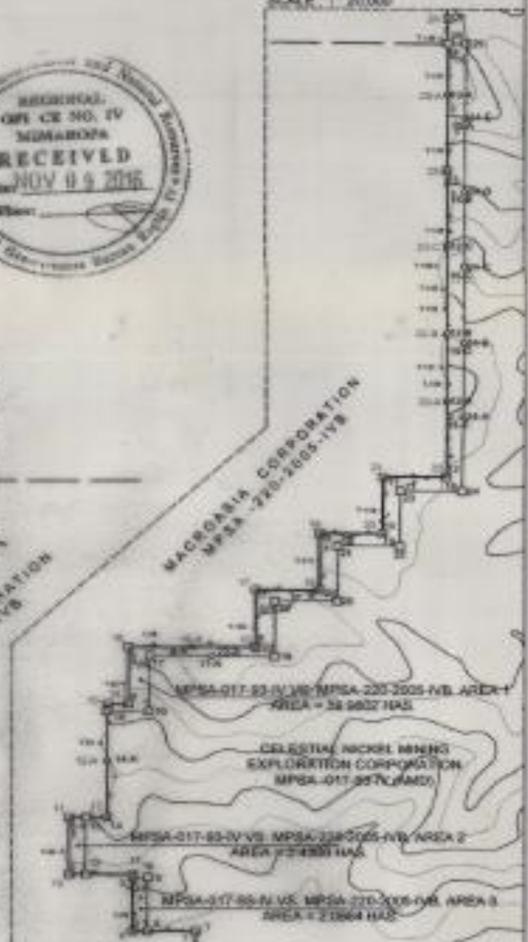
CERTIFICATION

This is to certify that this Survey Plan is plotted based on the technical description described in MPSA No. 220-2005-IVB of Macroasia Corporation and MPSA No.017-93-IV of Celestial Nickel Mining Exploration Corporation. This shall be subject to amendment after the resolution of the boundary conflict. Both parties are given six (6) months from the approval of this Survey Plan to resolve this conflict. Should the parties fail to resolve the boundary conflict after the given time, the matter shall be resolved by the Mines and Geosciences Bureau-MIMAROPA.

ROLAND A. DE JESUS, CESO V
REGIONAL DIRECTOR



ENLARGEMENT
SCALE 1 : 20,000



CONFORMITY

We jointly conform on the shape, areas and location of this Mining Claim and undertake to submit an amended Survey Plan based on the final resolution.

ENGR. CARLO A. MATILAC
VICE PRESIDENT
Celestial Nickel Mining Exploration Corporation

ROGEL A. SANTOS, Ph.D.
Macroasia Corporation

TIE POINT : PLW-122
LAT. [illegible] LONG. [illegible]
TIE LINE: [illegible]

NOTE:
All corners drawn in squares are marked on ground by [illegible] and all corners drawn in circle are marked on ground by [illegible] on ground

Application for — Filed on
Declaration of Location Recorded on
Contractor/Applicant — Celestial Nickel Mining Exploration Corp.
Application for Order of Quarry/ Lease Survey Filed
Mining Lease Application No. — Filed
Order of Survey issued on October 21, 2014
Survey Returns Submitted on
Mineral Land Survey Map
Province of Palawan

PLAN
OF
MPSA -017-93-IV
AS SURVEYED FOR
CELESTIAL NICKEL MINING EXPLORATION CORPORATION
SITUATED IN THE

SITIO OF :
BARRIO OF : IPILAN,MAASIN,MAMBALOT & CALASAGUEN
MUN./ CITY OF : BROOKE'S POINT
PROVINCE OF : PALAWAN
ISLAND OF : PALAWAN
CONTAINING AN AREA OF 2,961.7779 HAS.

PHILIPPINES TRANSVERSE MERCATOR PROJECTION
CENTRAL MERIDIAN 118° 30'E
BEARINGS PLANE
SCALE 1:40,000

SURVEYED: Nov. 05 - Dec 05, 2014

I hereby certify that the above information is true and correct.

AUTHORIZED ASS'T.

GEODETIC ENGINEER
DATE : FEB 4, 2014

Department of Environment and Natural Resources
MINES AND GEO-SCIENCES BUREAU
REGION NO IVB

I CERTIFY THAT THIS IS A CORRECT PLAN OF THE SURVEY HEREIN PLATTED, THE VERIFIED ORIGINAL FIELD NOTES, COMPUTATIONS AND AUTHORITY OF SECTION 237 DENR A.O. NO. 96-40 IMPLEMENTING R.A. 7942 AND IN ACCORDANCE WITH THE EXISTING REGULATIONS OF THE BUREAU OF MINES AND GEO-SCIENCES. WHEREFORE, THE SAME IS HEREBY APPROVED.

THE APPROVAL OF THIS PLAN, HOWEVER DOES NOT NECESSARILY GIVE ANY PREFERENTIAL AND/OR ADDITIONAL RIGHT TO THE PARTY FOR WHOM THE SURVEY HAS BEEN MADE. LIKEWISE, THIS APPROVAL SHALL BE SUBJECT TO THE FINAL DECISION OF ANY CASE WHEREIN THE MINING CLAIM/QUARRY APPLICATION PLATTED ON THIS PLAN IS INVOLVED AND TO THE PROVISIONS OF MINES ADMINISTRATIVE ORDER NO. 5.

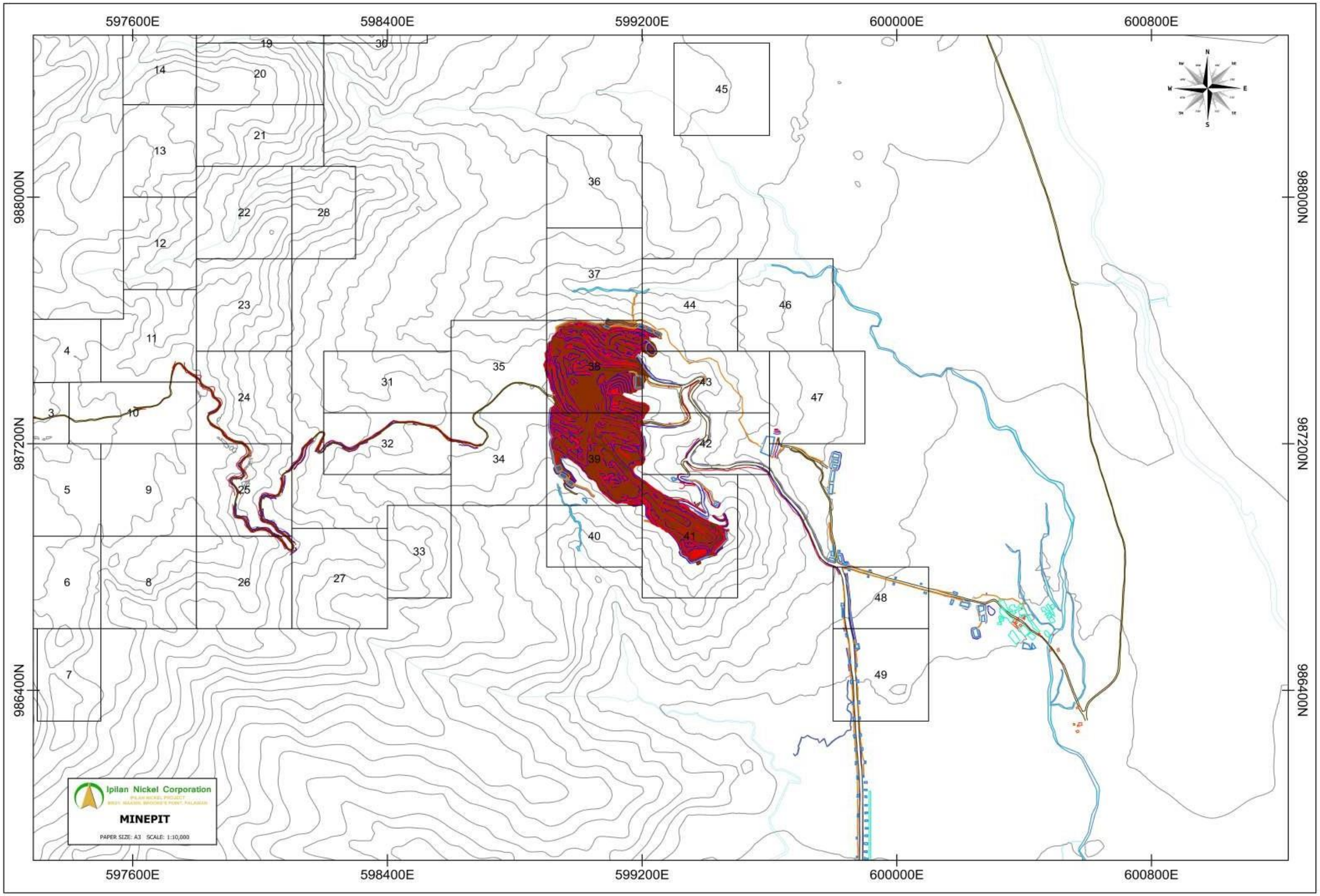
MANILA, PHILIPPINES DEC 13 2016

ROLAND A. DE JESUS, CESO V
REGIONAL DIRECTOR — IVB
MIMAROPA

Plotted by:
Traced by:
Checked by:

MPSAS -IVB-084-D

ANNEX 2: GENERAL LOCATION OF ACTIVE MINING AREAS AND OTHER FACILITIES


597600E
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600800E
988000N
987200N
986400N
N
S
E
W
MINEPIT
PAPER SIZE: A3 SCALE: 1:10,000
Ipilan Nickel Corporation

TECHNICAL DESCRIPTION

Point	Latitude	Longitude
1	8°55'49.987"	117°53'58.319"
2	8°55'50.514"	117°53'59.401"
3	8°55'50.688"	117°54'0.619"
4	8°55'50.476"	117°54'1.957"
5	8°55'50.354"	117°54'2.529"
6	8°55'50.409"	117°54'2.989"
7	8°55'50.449"	117°54'3.39"
8	8°55'50.926"	117°54'3.568"
9	8°55'50.726"	117°54'3.946"
10	8°55'50.676"	117°54'5.248"
11	8°55'50.45"	117°54'6.489"
12	8°55'50.374"	117°54'7.009"
13	8°55'49.884"	117°54'8.124"
14	8°55'49.315"	117°54'9.205"
15	8°55'48.968"	117°54'9.145"
16	8°55'48.713"	117°54'9.191"
17	8°55'48.718"	117°54'8.935"
18	8°55'48.914"	117°54'8.613"
19	8°55'48.859"	117°54'8.272"
20	8°55'49.013"	117°54'7.834"
21	8°55'48.521"	117°54'7.907"
22	8°55'48.33"	117°54'8.276"
23	8°55'48.046"	117°54'8.508"
24	8°55'47.365"	117°54'8.749"
25	8°55'47"	117°54'8.526"
26	8°55'46.781"	117°54'8.164"
27	8°55'47.124"	117°54'7.698"
28	8°55'47.34"	117°54'7.337"
29	8°55'47.407"	117°54'7.188"
30	8°55'47.346"	117°54'7.043"
31	8°55'47.12"	117°54'6.943"
32	8°55'47.163"	117°54'6.631"
33	8°55'46.815"	117°54'6.843"
34	8°55'46.456"	117°54'7.183"
35	8°55'45.505"	117°54'7.729"
36	8°55'44.971"	117°54'7.901"
37	8°55'43.974"	117°54'7.318"
38	8°55'43.479"	117°54'7.361"
39	8°55'43.334"	117°54'6.654"
40	8°55'43.006"	117°54'5.925"
41	8°55'43.063"	117°54'5.195"
42	8°55'42.854"	117°54'5.04"
43	8°55'42.471"	117°54'5.596"
44	8°55'42.396"	117°54'5.886"
45	8°55'42.092"	117°54'6.526"
46	8°55'42.021"	117°54'7.195"
47	8°55'41.696"	117°54'7.837"
48	8°55'41.319"	117°54'7.901"
49	8°55'40.91"	117°54'7.699"
50	8°55'40.738"	117°54'7.46"
51	8°55'40.385"	117°54'7.351"
52	8°55'40.257"	117°54'7.221"
53	8°55'40.226"	117°54'7.013"
54	8°55'39.564"	117°54'7.394"
55	8°55'39.573"	117°54'7.137"
56	8°55'39.37"	117°54'6.995"
57	8°55'39.041"	117°54'7.018"
58	8°55'38.491"	117°54'7.242"
59	8°55'38.414"	117°54'7.406"
60	8°55'37.993"	117°54'7.49"
61	8°55'37.429"	117°54'7.569"
62	8°55'36.365"	117°54'7.365"
63	8°55'36.111"	117°54'7.463"
64	8°55'35.6"	117°54'7.302"
65	8°55'35.359"	117°54'7.051"
66	8°55'35.36"	117°54'6.644"
67	8°55'35.03"	117°54'6.236"
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69	8°55'34.324"	117°54'6.52"
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74	8°55'32.537"	117°54'9.023"
75	8°55'32.275"	117°54'9.374"
76	8°55'31.974"	117°54'10.01"
77	8°55'31.359"	117°54'11.065"
78	8°55'31.179"	117°54'11.558"
79	8°55'30.906"	117°54'11.952"
80	8°55'30.783"	117°54'11.937"
81	8°55'30.477"	117°54'12.29"
82	8°55'30.121"	117°54'12.829"
83	8°55'29.855"	117°54'13.295"
84	8°55'29.522"	117°54'13.926"
85	8°55'29.271"	117°54'14.364"
86	8°55'29.009"	117°54'15.038"
87	8°55'29.025"	117°54'15.637"
88	8°55'29.174"	117°54'15.79"
89	8°55'29.55"	117°54'15.704"
90	8°55'29.464"	117°54'15.592"
91	8°55'29.413"	117°54'15.39"
92	8°55'29.471"	117°54'15.05"
93	8°55'29.702"	117°54'14.675"
94	8°55'30.009"	117°54'14.352"
95	8°55'30.117"	117°54'14.455"
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97	8°55'29.829"	117°54'14.822"
98	8°55'29.693"	117°54'15.026"
99	8°55'29.638"	117°54'15.219"
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103	8°55'30.033"	117°54'15.476"
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108	8°55'29.192"	117°54'15.937"
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110	8°55'28.83"	117°54'15.738"
111	8°55'28.807"	117°54'15.305"
112	8°55'28.682"	117°54'15.524"
113	8°55'28.59"	117°54'15.656"
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115	8°55'28.608"	117°54'15.953"
116	8°55'28.568"	117°54'16.057"
117	8°55'28.463"	117°54'16.06"
118	8°55'28.377"	117°54'15.945"
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121	8°55'27.986"	117°54'15.846"
122	8°55'27.909"	117°54'15.826"
123	8°55'27.609"	117°54'15.932"
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125	8°55'27.387"	117°54'15.831"
126	8°55'26.846"	117°54'15.367"
127	8°55'26.737"	117°54'15.348"
128	8°55'26.648"	117°54'15.394"
129	8°55'26.603"	117°54'15.393"
130	8°55'26.547"	117°54'15.349"
131	8°55'26.451"	117°54'15.211"
132	8°55'25.923"	117°54'14.652"
133	8°55'25.908"	117°54'14.853"
134	8°55'25.638"	117°54'14.022"
135	8°55'25.471"	117°54'13.399"
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140	8°55'24.875"	117°54'12.731"
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145	8°55'25.535"	117°54'11.595"
146	8°55'25.853"	117°54'11.046"
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148	8°55'26.234"	117°54'10.915"
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150	8°55'27.219"	117°54'10.724"
151	8°55'27.658"	117°54'10.42"
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154	8°55'28.326"	117°54'9.574"
155	8°55'28.576"	117°54'9.341"
156	8°55'28.609"	117°54'9.183"
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161	8°55'29.336"	117°54'7.935"
162	8°55'29.43"	117°54'7.359"
163	8°55'29.614"	117°54'7.308"
164	8°55'29.589"	117°54'7.882"
165	8°55'29.867"	117°54'7.606"
166	8°55'30.129"	117°54'7.473"
167	8°55'30.693"	117°54'7.507"
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170	8°55'31.338"	117°54'7.13"
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172	8°55'31.14"	117°54'7.004"
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174	8°55'31.056"	117°54'6.573"
175	8°55'31.046"	117°54'6.168"
176	8°55'31.174"	117°54'5.987"
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180	8°55'31.393"	117°54'5.158"
181	8°55'31.425"	117°54'4.999"
182	8°55'31.37"	117°54'4.864"
183	8°55'31.353"	117°54'4.713"
184	8°55'31.31"	117°54'4.591"
185	8°55'31.387"	117°54'4.367"
186	8°55'31.478"	117°54'4.333"
187	8°55'31.644"	117°54'4.018"
188	8°55'31.701"	117°54'3.892"
189	8°55'31.853"	117°54'3.761"
190	8°55'32.159"	117°54'3.411"
191	8°55'32.485"	117°54'3.002"
192	8°55'32.557"	117°54'3.031"
193	8°55'32.783"	117°54'2.783"
194	8°55'33.464"	117°54'2.447"
195	8°55'33.574"	117°54'2.433"
196	8°55'33.901"	117°54'1.992"
197	8°55'33.88"	117°54'1.92"
198	8°55'34.016"	117°54'1.647"
199	8°55'34.231"	117°54'1.482"
200	8°55'34.338"	117°54'1.475"
201	8°55'34.637"	117°54'1.255"
202	8°55'34.874"	117°54'0.971"
203	8°55'35.146"	117°54'0.817"
204	8°55'35.547"	117°54'0.372"
205	8°55'35.687"	117°54'0.128"
206	8°55'35.948"	117°53'59.842"
207	8°55'36.091"	117°53'59.58"
208	8°55'36.079"	117°53'58.764"
209	8°55'35.789"	117°53'58.828"
210	8°55'35.106"	117°53'59.15"
211	8°55'34.783"	117°53'59.588"
212	8°55'34.556"	117°53'59.848"
213	8°55'33.726"	117°54'0.392"
214	8°55'33.429"	117°54'0.154"
215	8°55'32.974"	117°54'1.392"
216	8°55'32.771"	117°54'1.67"
217	8°55'32.363"	117°54'1.935"
218	8°55'32.174"	117°54'2.255"
219	8°55'32.008"	117°54'2.133"
220	8°55'32.179"	117°54'1.894"
221	8°55'32.624"	117°54'1.566"
222	8°55'32.822"	117°54'1.256"
223	8°55'33.02"	117°54'0.63"
224	8°55'33.223"	117°54'0.18"
225	8°55'32.928"	117°53'59.9"
226	8°55'33.238"	117°53'59.378"
227	8°55'33.952"	117°53'58.997"
228	8°55'34.249"	117°53'58.531"
229	8°55'34.429"	117°53'58.482"
230	8°55'34.479"	117°53'58.315"
231	8°55'34.873"	117°53'58.059"
232	8°55'35.541"	117°53'58.038"
233	8°55'36.999"	117°53'57.718"
234	8°55'37.706"	117°53'57.565"
235	8°55'38.462"	117°53'57.799"
236	8°55'38.908"	117°53'57.594"
237	8°55'39.461"	117°53'57.518"
238	8°55'40.246"	117°53'57.506"
239	8°55'41.176"	117°53'57.635"
240	8°55'41.691"	117°53'58.102"
241	8°55'42.753"	117°53'58.072"
242	8°55'43.582"	117°53'57.716"
243	8°55'44.786"	117°53'57.348"
244	8°55'45.973"	117°53'57.026"
245	8°55'47.279"	117°53'57.172"
246	8°55'48.22"	117°53'57.438"
247	8°55'49.14"	117°53'58.051"
248	8°55'49.505"	117°53'58.287"

Ipilan Nickel Corporation
IPILAN NICKEL PROJECT
BRGY. MAASIN, BROOKE'S POINT, PALAWAN

MINEPIT

PAPER SIZE: A3


601600E
602400E
603200E
604000E
604800E
981600N
980800N
980000N
LOT_22
LOT_21
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LOT_06
LOT_05
LOT_03
LOT_02
LOT_01
MINECAMP
GUARD HOUSE (MAIN GATE)
NURSERY
NURSERY
NURSERY
HAZWASTE
PH2
MOTORPOOL
JR STAFFHOUSE
SR STAFFHOUSE
MESSHALL
ENVI OFFICE
SAFETY AND HEALTH OFFICE
MINE OFFICE
FUEL DEPOT
WAREHOUSE
SECURITY OFFICE
ASSAY LAB
PH1
SAMPLE PREP
COREHOUSE
GUARD HOUSE
SCALE: 1:2,500
N
S
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W
Ipilan Nickel Corporation
IPILAN NICKEL PROJECT
BRGY. MAASIN, BROOKE'S POINT, PALAWAN
MINECAMP
PAPER SIZE: A3 SCALE: 1:10,000

TECHNICAL DESCRIPTION

ENVI BUILDING

Point	Latitude	Longitude
1	8°52'29.488"	117°55'43.93"
2	8°52'29.648"	117°55'43.827"
3	8°52'29.505"	117°55'43.613"
4	8°52'29.349"	117°55'43.715"

MINE OFFICE

Point	Latitude	Longitude
1	8°52'27.367"	117°55'44.496"
2	8°52'27.645"	117°55'44.311"
3	8°52'27.708"	117°55'44.395"
4	8°52'27.769"	117°55'44.358"
5	8°52'28.015"	117°55'44.727"
6	8°52'27.96"	117°55'44.779"
7	8°52'28.01"	117°55'44.872"
8	8°52'27.734"	117°55'45.052"

SAFETY AND HEALTH OFFICE

Point	Latitude	Longitude
1	8°52'27.155"	117°55'44.11"
2	8°52'27.397"	117°55'43.947"
3	8°52'27.328"	117°55'43.838"
4	8°52'27.407"	117°55'43.778"
5	8°52'27.187"	117°55'43.447"
6	8°52'27.098"	117°55'43.478"
7	8°52'27.048"	117°55'43.415"
8	8°52'26.804"	117°55'43.57"

JR STAFFHOUSE

Point	Latitude	Longitude
1	8°52'29.146"	117°55'45.181"
2	8°52'29.6"	117°55'44.881"
3	8°52'29.714"	117°55'45.059"
4	8°52'29.259"	117°55'45.359"
Point	Latitude	Longitude
1	8°52'29.292"	117°55'45.413"
2	8°52'29.75"	117°55'45.108"
3	8°52'29.864"	117°55'45.286"
4	8°52'29.41"	117°55'45.588"

MESSHALL

Point	Latitude	Longitude
1	8°52'29.259"	117°55'46.471"
2	8°52'28.981"	117°55'46.06"
3	8°52'28.667"	117°55'46.262"
4	8°52'28.941"	117°55'46.682"

HAZWASTE

Point	Latitude	Longitude
1	8°52'29.648"	117°55'47.788"
2	8°52'29.949"	117°55'47.599"
3	8°52'30.215"	117°55'48.008"
4	8°52'29.909"	117°55'48.205"

POWER HOUSE 2

Point	Latitude	Longitude
1	8°52'29.375"	117°55'48.071"
2	8°52'29.49"	117°55'48.227"
3	8°52'29.347"	117°55'48.342"
4	8°52'29.229"	117°55'48.172"
5	8°52'29.214"	117°55'48.059"
6	8°52'29.272"	117°55'48.014"

MOTORPOOL

Point	Latitude	Longitude
1	8°52'28.642"	117°55'47.616"
2	8°52'29.249"	117°55'48.489"
3	8°52'28.799"	117°55'48.809"
4	8°52'28.188"	117°55'47.935"

FUEL DEPOT

Point	Latitude	Longitude
1	8°52'27.912"	117°55'49.437"
2	8°52'28.135"	117°55'49.279"
3	8°52'27.939"	117°55'49.005"
4	8°52'27.72"	117°55'49.166"
Point	Latitude	Longitude
1	8°52'27.663"	117°55'49.086"
2	8°52'27.454"	117°55'48.792"
3	8°52'27.674"	117°55'48.635"
4	8°52'27.883"	117°55'48.927"
Point	Latitude	Longitude
1	8°52'27.303"	117°55'49.267"
2	8°52'27.006"	117°55'49.483"
3	8°52'27.294"	117°55'49.894"
4	8°52'27.596"	117°55'49.672"

ASSAY LAB

Point	Latitude	Longitude
1	8°52'26.683"	117°55'47.671"
2	8°52'26.338"	117°55'47.895"
3	8°52'26.236"	117°55'47.833"
4	8°52'26.142"	117°55'47.718"
5	8°52'26.129"	117°55'47.606"
6	8°52'26.48"	117°55'47.358"

SAMPLE PREP

Point	Latitude	Longitude
1	8°52'25.871"	117°55'47.607"
2	8°52'25.954"	117°55'47.551"
3	8°52'26.06"	117°55'47.481"
4	8°52'26.204"	117°55'47.394"
5	8°52'26.282"	117°55'47.347"
6	8°52'26.395"	117°55'47.273"
7	8°52'25.98"	117°55'46.657"
8	8°52'25.454"	117°55'47.017"

POWER HOUSE 1

Point	Latitude	Longitude
1	8°52'26.891"	117°55'47.993"
2	8°52'26.78"	117°55'48.069"
3	8°52'26.681"	117°55'47.922"
4	8°52'26.788"	117°55'47.847"

CORE HOUSE

Point	Latitude	Longitude
1	8°52'25.31"	117°55'46.43"
2	8°52'25.027"	117°55'45.916"
3	8°52'25.429"	117°55'45.694"
4	8°52'25.702"	117°55'46.224"

SECURITY OFFICE

Point	Latitude	Longitude
1	8°52'26.412"	117°55'45.787"
2	8°52'26.233"	117°55'45.511"
3	8°52'26.07"	117°55'45.618"
4	8°52'26.249"	117°55'45.894"

CIVIL WORKS STORAGE

Point	Latitude	Longitude
1	8°52'31.102"	117°55'45.515"
2	8°52'31.284"	117°55'45.432"
3	8°52'31.403"	117°55'45.679"
4	8°52'31.22"	117°55'45.771"

GUARD HOUSE

Point	Latitude	Longitude
1	8°52'24.382"	117°55'47.008"
2	8°52'24.384"	117°55'47.073"
3	8°52'24.465"	117°55'47.068"
4	8°52'24.464"	117°55'47.007"

GUARD HOUSE (MAIN GATE)

Point	Latitude	Longitude
1	8°52'35.234"	117°55'45.23"
2	8°52'35.168"	117°55'45.171"
3	8°52'35.112"	117°55'45.255"
4	8°52'35.17"	117°55'45.305"

SR STAFFHOUSE

Point	Latitude	Longitude
1	8°52'28.863"	117°55'45.698"
2	8°52'29.19"	117°55'45.486"
3	8°52'29.3"	117°55'45.661"
4	8°52'28.977"	117°55'45.876"
Point	Latitude	Longitude
1	8°52'28.712"	117°55'45.47"
2	8°52'29.037"	117°55'45.256"
3	8°52'29.152"	117°55'45.428"
4	8°52'28.821"	117°55'45.646"

WAREHOUSE

Point	Latitude	Longitude
1	8°52'26.863"	117°55'45.189"
2	8°52'27.037"	117°55'45.464"
3	8°52'27.257"	117°55'45.324"
4	8°52'27.083"	117°55'45.049"

CIVIL WORKS STORAGE

Point	Latitude	Longitude
1	8°52'31.102"	117°55'45.515"
2	8°52'31.284"	117°55'45.432"
3	8°52'31.403"	117°55'45.679"
4	8°52'31.22"	117°55'45.771"

MINECAMP NURSERY

Point	Latitude	Longitude
1	8°52'29.988"	117°55'43.362"
2	8°52'30.252"	117°55'43.061"
3	8°52'30.144"	117°55'42.981"
4	8°52'30.563"	117°55'42.488"
5	8°52'30.755"	117°55'42.634"
6	8°52'30.837"	117°55'42.568"
7	8°52'30.939"	117°55'42.615"
8	8°52'31.025"	117°55'42.551"
9	8°52'31.533"	117°55'42.958"
10	8°52'31.451"	117°55'43.062"
11	8°52'31.649"	117°55'43.231"
12	8°52'31.57"	117°55'43.326"
13	8°52'31.666"	117°55'43.413"
14	8°52'31.5"	117°55'43.611"
15	8°52'32.385"	117°55'44.371"
16	8°52'32.473"	117°55'44.276"
17	8°52'32.571"	117°55'44.358"
18	8°52'32.739"	117°55'44.159"
19	8°52'32.638"	117°55'44.076"
20	8°52'32.715"	117°55'43.968"
21	8°52'32.628"	117°55'43.906"
22	8°52'32.79"	117°55'43.691"
23	8°52'32.699"	117°55'43.632"
24	8°52'32.939"	117°55'43.301"
25	8°52'34.157"	117°55'44.317"
26	8°52'33.263"	117°55'45.428"
27	8°52'33.027"	117°55'45.264"
28	8°52'32.942"	117°55'45.355"
29	8°52'32.838"	117°55'45.271"
30	8°52'32.76"	117°55'45.366"
31	8°52'32.675"	117°55'45.303"
32	8°52'32.589"	117°55'45.375"
33	8°52'32.481"	117°55'45.3"
34	8°52'32.394"	117°55'45.395"

Point	Latitude	Longitude
1	8°52'32.702"	117°55'45.777"
2	8°52'33.178"	117°55'46.459"
3	8°52'32.701"	117°55'46.749"
4	8°52'32.252"	117°55'46.064"
5	8°52'32.147"	117°55'45.998"
6	8°52'31.814"	117°55'45.438"
7	8°52'32.031"	117°55'45.304"
8	8°52'32.357"	117°55'45.485"
9	8°52'32.557"	117°55'45.729"
Point	Latitude	Longitude
1	8°52'32.071"	117°55'46.933"
2	8°52'32.447"	117°55'46.736"
3	8°52'31.875"	117°55'45.722"
4	8°52'31.633"	117°55'45.835"
5	8°52'31.65"	117°55'46.013"
6	8°52'31.417"	117°55'46.205"
7	8°52'31.673"	117°55'46.72"
8	8°52'31.936"	117°55'46.604"

Ipilan Nickel Corporation
IPILAN NICKEL PROJECT
BRGY. MAASIN, BROOKE'S POINT, PALAWAN

MINECAMP

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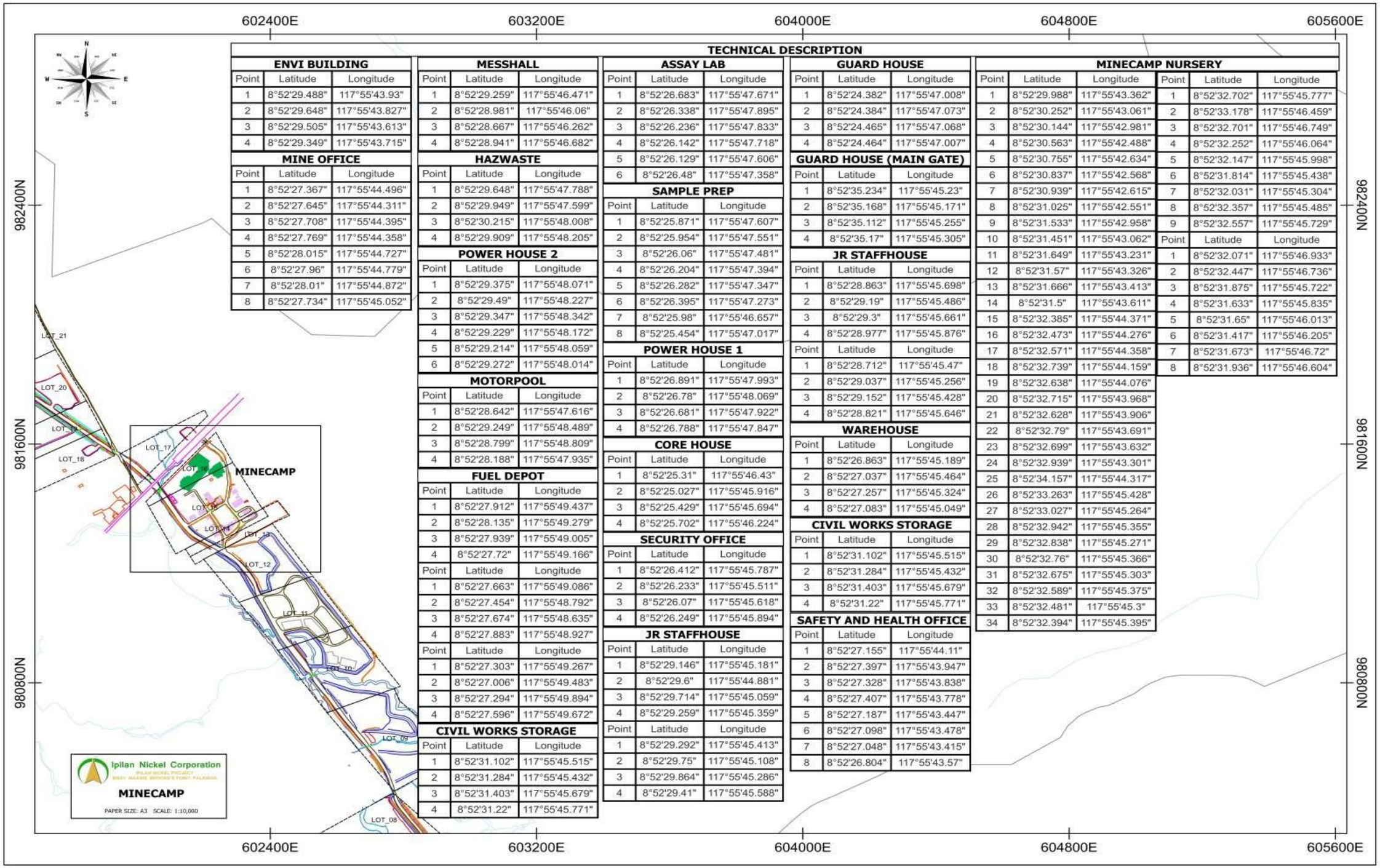

TECHNICAL DESCRIPTION

ENVI BUILDING

Point	Latitude	Longitude
1	8°52'29.488"	117°55'43.93"
2	8°52'29.648"	117°55'43.827"
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POWER HOUSE 2

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32	8°52'32.589"	117°55'45.375"
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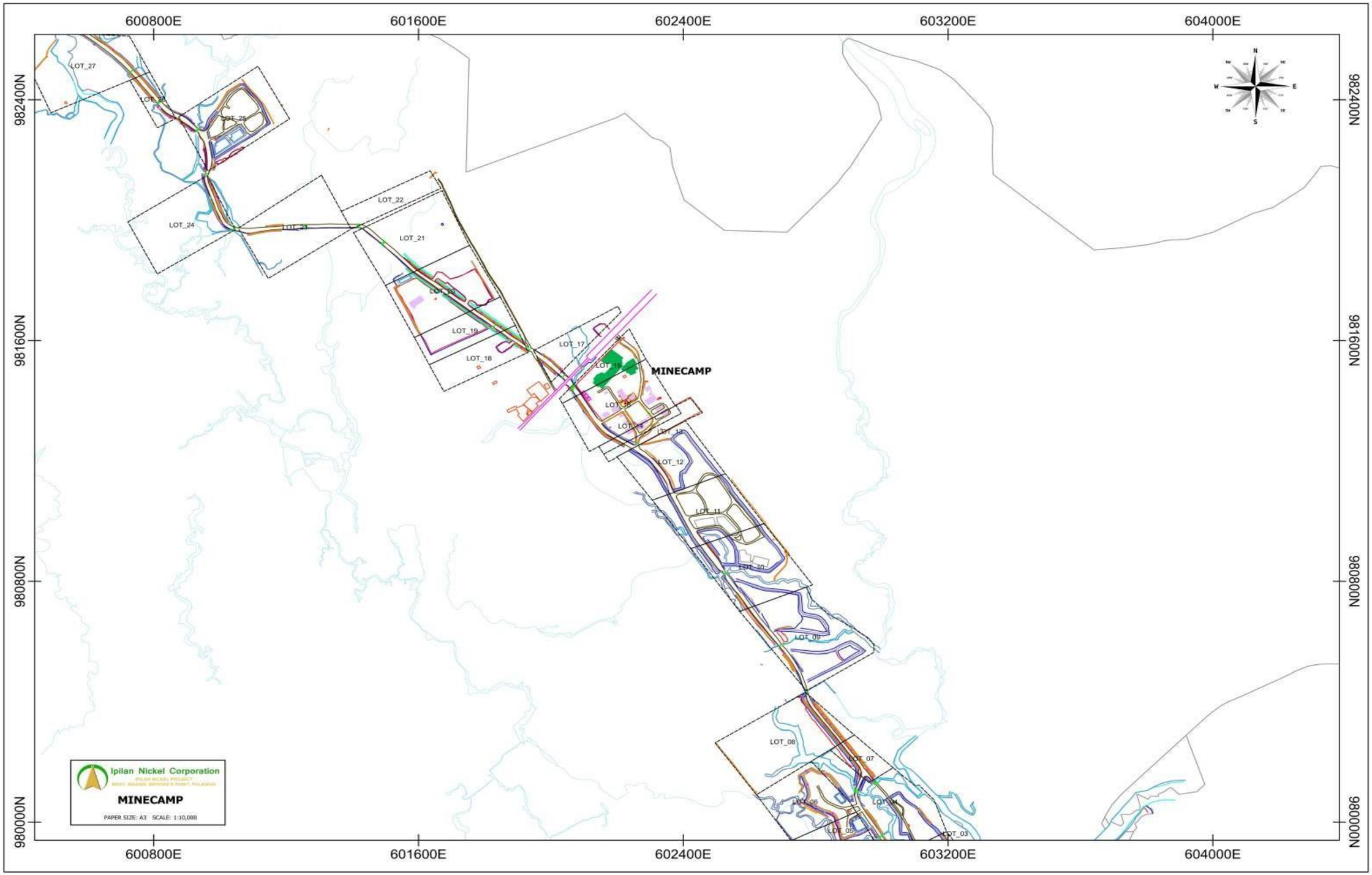
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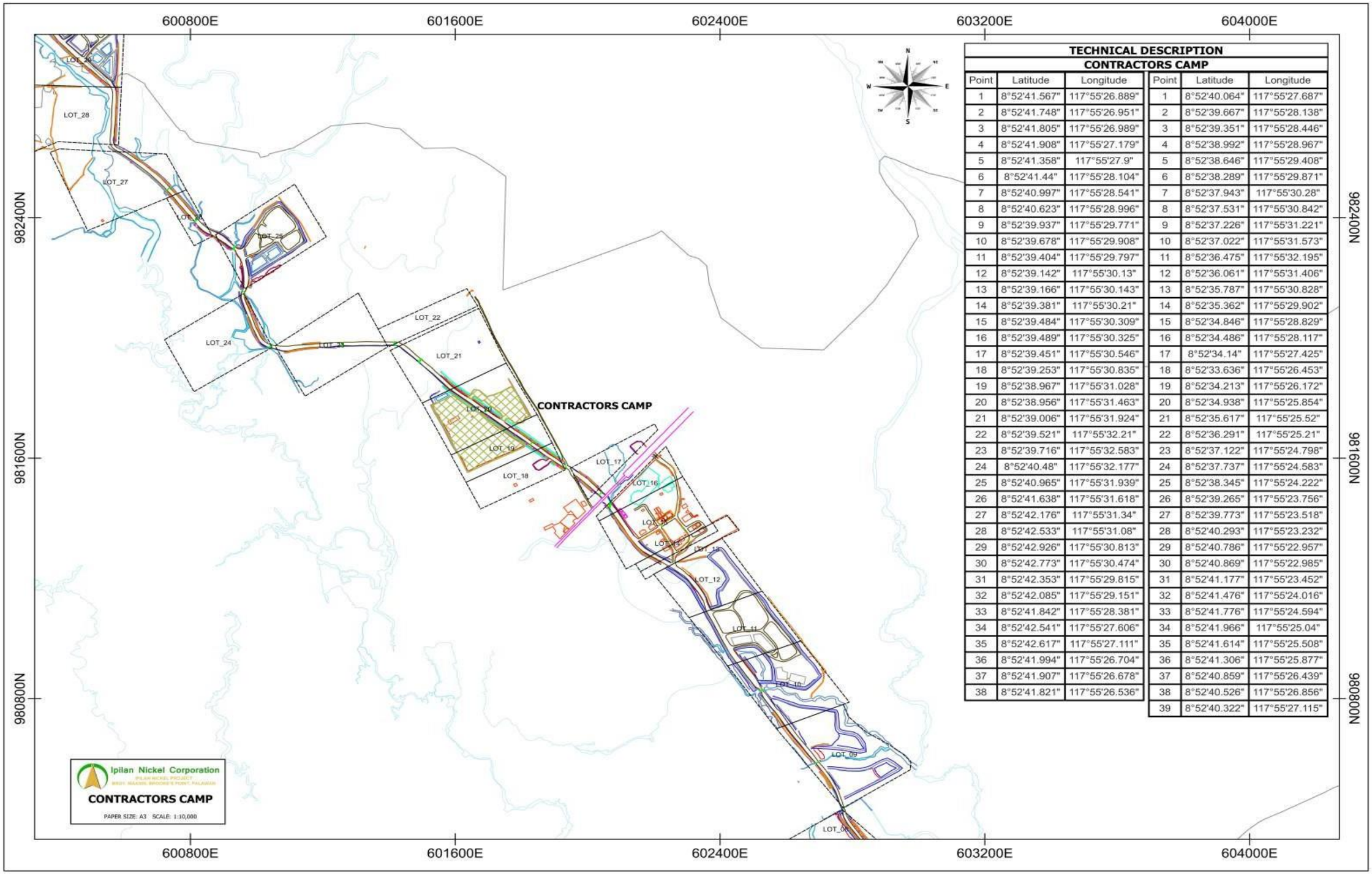
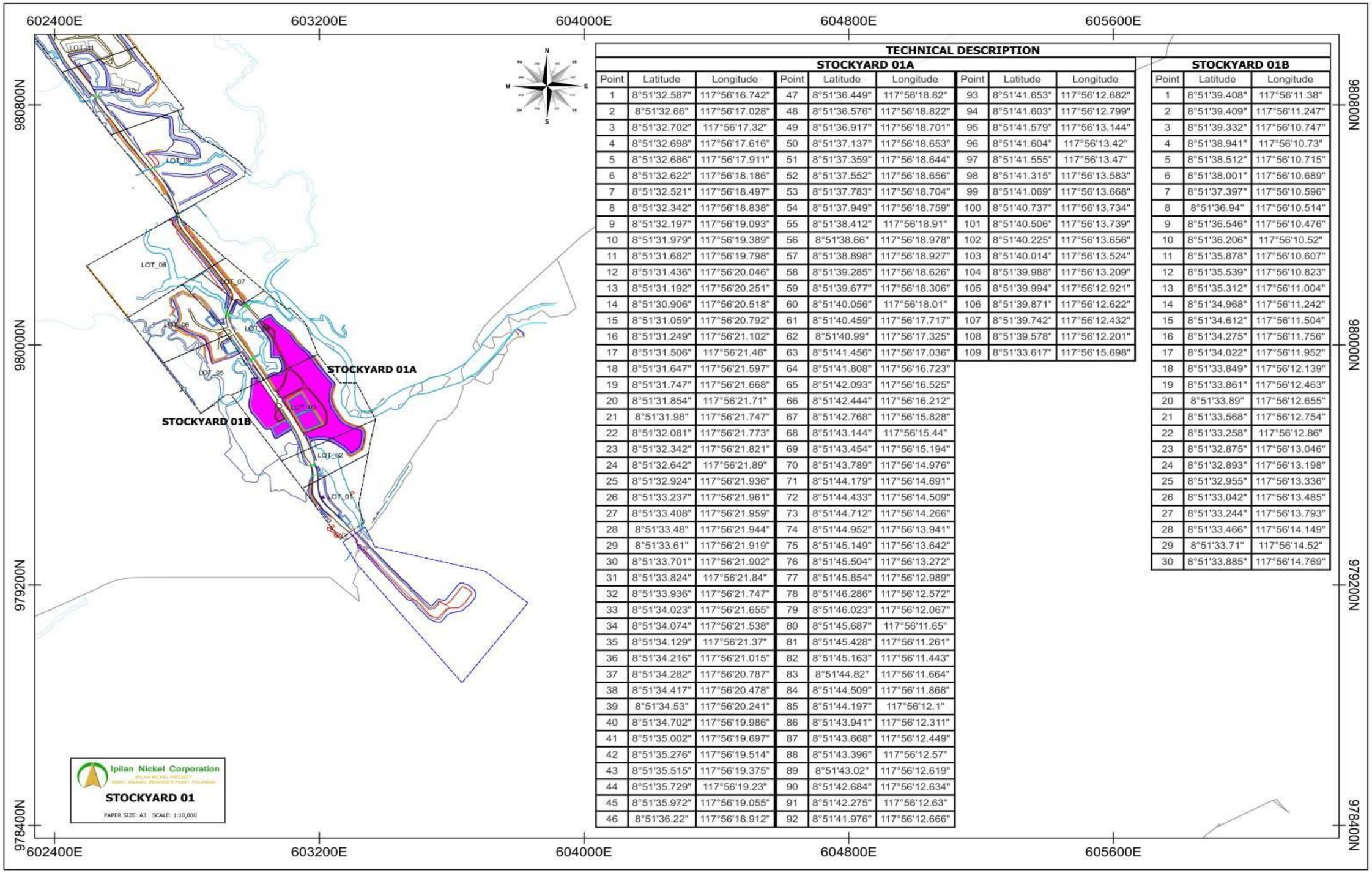
LOT_06
LOT_05
LOT_04
LOT_03
MINECAMP
N
S
E
W
Ipilan Nickel Corporation
MINECAMP
PAPER SIZE: A3 SCALE: 1:10,000



TECHNICAL DESCRIPTION
CONTRACTORS CAMP

Point	Latitude	Longitude	Point	Latitude	Longitude
1	8°52'41.567"	117°55'26.889"	1	8°52'40.064"	117°55'27.687"
2	8°52'41.748"	117°55'26.951"	2	8°52'39.667"	117°55'28.138"
3	8°52'41.805"	117°55'26.989"	3	8°52'39.351"	117°55'28.446"
4	8°52'41.908"	117°55'27.179"	4	8°52'38.992"	117°55'28.967"
5	8°52'41.358"	117°55'27.9"	5	8°52'38.646"	117°55'29.408"
6	8°52'41.44"	117°55'28.104"	6	8°52'38.289"	117°55'29.871"
7	8°52'40.997"	117°55'28.541"	7	8°52'37.943"	117°55'30.28"
8	8°52'40.623"	117°55'28.996"	8	8°52'37.531"	117°55'30.842"
9	8°52'39.937"	117°55'29.771"	9	8°52'37.226"	117°55'31.221"
10	8°52'39.678"	117°55'29.908"	10	8°52'37.022"	117°55'31.573"
11	8°52'39.404"	117°55'29.797"	11	8°52'36.475"	117°55'32.195"
12	8°52'39.142"	117°55'30.13"	12	8°52'36.061"	117°55'31.406"
13	8°52'39.166"	117°55'30.143"	13	8°52'35.787"	117°55'30.828"
14	8°52'39.381"	117°55'30.21"	14	8°52'35.362"	117°55'29.902"
15	8°52'39.484"	117°55'30.309"	15	8°52'34.846"	117°55'28.829"
16	8°52'39.489"	117°55'30.325"	16	8°52'34.486"	117°55'28.117"
17	8°52'39.451"	117°55'30.546"	17	8°52'34.14"	117°55'27.425"
18	8°52'39.253"	117°55'30.835"	18	8°52'33.636"	117°55'26.453"
19	8°52'38.967"	117°55'31.028"	19	8°52'34.213"	117°55'26.172"
20	8°52'38.956"	117°55'31.463"	20	8°52'34.938"	117°55'25.854"
21	8°52'39.006"	117°55'31.924"	21	8°52'35.617"	117°55'25.52"
22	8°52'39.521"	117°55'32.21"	22	8°52'36.291"	117°55'25.21"
23	8°52'39.716"	117°55'32.583"	23	8°52'37.122"	117°55'24.798"
24	8°52'40.48"	117°55'32.177"	24	8°52'37.737"	117°55'24.583"
25	8°52'40.965"	117°55'31.939"	25	8°52'38.345"	117°55'24.222"
26	8°52'41.638"	117°55'31.618"	26	8°52'39.265"	117°55'23.756"
27	8°52'42.176"	117°55'31.34"	27	8°52'39.773"	117°55'23.518"
28	8°52'42.533"	117°55'31.08"	28	8°52'40.293"	117°55'23.232"
29	8°52'42.926"	117°55'30.813"	29	8°52'40.786"	117°55'22.957"
30	8°52'42.773"	117°55'30.474"	30	8°52'40.869"	117°55'22.985"
31	8°52'42.353"	117°55'29.815"	31	8°52'41.177"	117°55'23.452"
32	8°52'42.085"	117°55'29.151"	32	8°52'41.476"	117°55'24.016"
33	8°52'41.842"	117°55'28.381"	33	8°52'41.776"	117°55'24.594"
34	8°52'42.541"	117°55'27.606"	34	8°52'41.966"	117°55'25.04"
35	8°52'42.617"	117°55'27.111"	35	8°52'41.614"	117°55'25.508"
36	8°52'41.994"	117°55'26.704"	36	8°52'41.306"	117°55'25.877"
37	8°52'41.907"	117°55'26.678"	37	8°52'40.859"	117°55'26.439"
38	8°52'41.821"	117°55'26.536"	38	8°52'40.526"	117°55'26.856"
			39	8°52'40.322"	117°55'27.115"



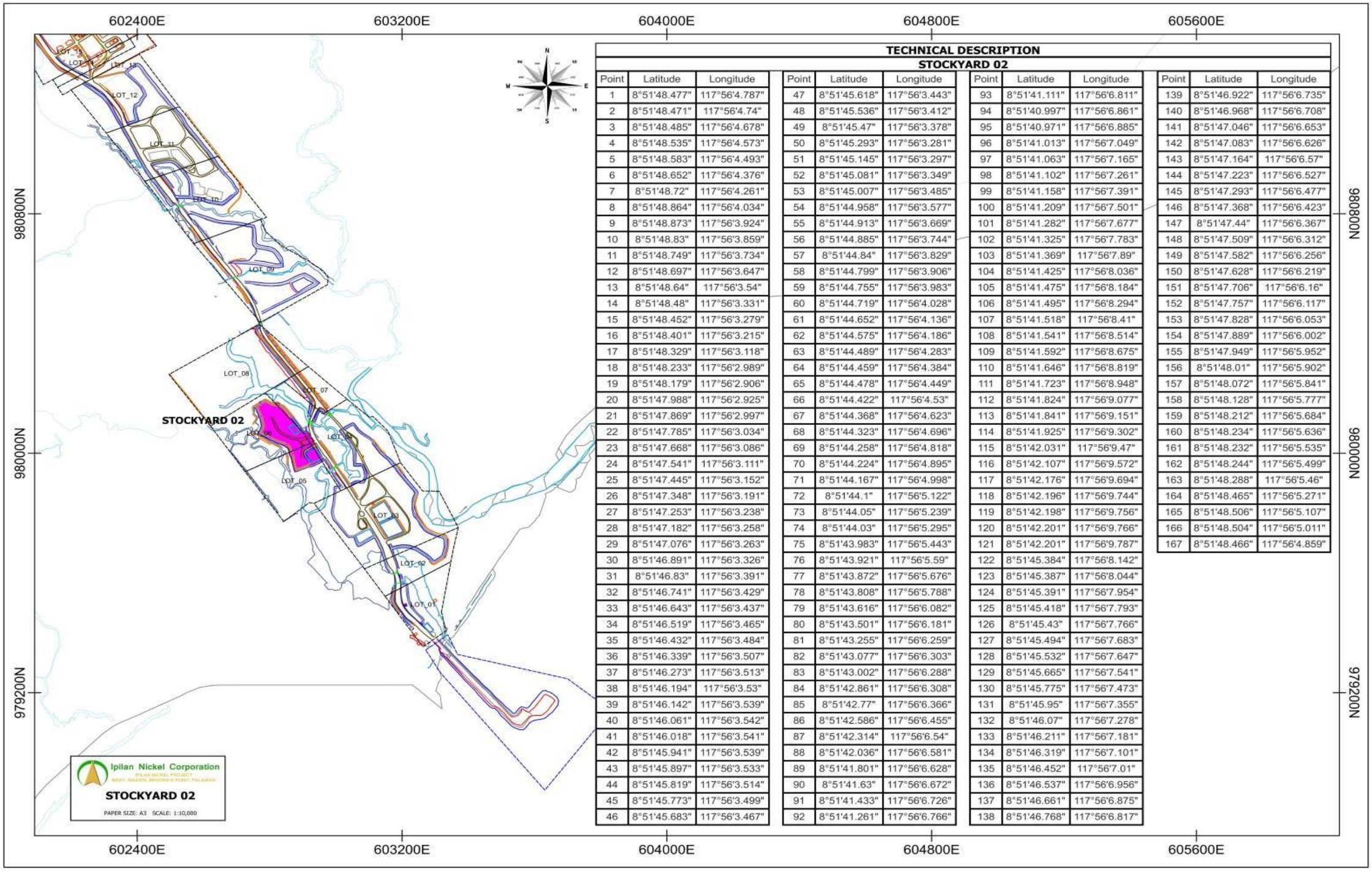
TECHNICAL DESCRIPTION

STOCKYARD 01A

Point	Latitude	Longitude	Point	Latitude	Longitude	Point	Latitude	Longitude
1	8°51'32.587"	117°56'16.742"	47	8°51'36.449"	117°56'18.82"	93	8°51'41.653"	117°56'12.682"
2	8°51'32.66"	117°56'17.028"	48	8°51'36.576"	117°56'18.822"	94	8°51'41.603"	117°56'12.799"
3	8°51'32.702"	117°56'17.32"	49	8°51'36.917"	117°56'18.701"	95	8°51'41.579"	117°56'13.144"
4	8°51'32.698"	117°56'17.616"	50	8°51'37.137"	117°56'18.653"	96	8°51'41.604"	117°56'13.42"
5	8°51'32.686"	117°56'17.911"	51	8°51'37.359"	117°56'18.644"	97	8°51'41.555"	117°56'13.47"
6	8°51'32.622"	117°56'18.186"	52	8°51'37.552"	117°56'18.656"	98	8°51'41.315"	117°56'13.583"
7	8°51'32.521"	117°56'18.497"	53	8°51'37.783"	117°56'18.704"	99	8°51'41.069"	117°56'13.668"
8	8°51'32.342"	117°56'18.838"	54	8°51'37.949"	117°56'18.759"	100	8°51'40.737"	117°56'13.734"
9	8°51'32.197"	117°56'19.093"	55	8°51'38.412"	117°56'18.91"	101	8°51'40.506"	117°56'13.739"
10	8°51'31.979"	117°56'19.389"	56	8°51'38.66"	117°56'18.978"	102	8°51'40.225"	117°56'13.656"
11	8°51'31.682"	117°56'19.798"	57	8°51'38.898"	117°56'18.927"	103	8°51'40.014"	117°56'13.524"
12	8°51'31.436"	117°56'20.046"	58	8°51'39.285"	117°56'18.626"	104	8°51'39.988"	117°56'13.209"
13	8°51'31.192"	117°56'20.251"	59	8°51'39.677"	117°56'18.306"	105	8°51'39.994"	117°56'12.921"
14	8°51'30.906"	117°56'20.518"	60	8°51'40.056"	117°56'18.01"	106	8°51'39.871"	117°56'12.622"
15	8°51'31.059"	117°56'20.792"	61	8°51'40.459"	117°56'17.717"	107	8°51'39.742"	117°56'12.432"
16	8°51'31.249"	117°56'21.102"	62	8°51'40.99"	117°56'17.325"	108	8°51'39.578"	117°56'12.201"
17	8°51'31.506"	117°56'21.46"	63	8°51'41.456"	117°56'17.036"	109	8°51'33.617"	117°56'15.698"
18	8°51'31.647"	117°56'21.597"	64	8°51'41.808"	117°56'16.723"			
19	8°51'31.747"	117°56'21.668"	65	8°51'42.093"	117°56'16.525"			
20	8°51'31.854"	117°56'21.71"	66	8°51'42.444"	117°56'16.212"			
21	8°51'31.98"	117°56'21.747"	67	8°51'42.768"	117°56'15.828"			
22	8°51'32.081"	117°56'21.773"	68	8°51'43.144"	117°56'15.44"			
23	8°51'32.342"	117°56'21.821"	69	8°51'43.454"	117°56'15.194"			
24	8°51'32.642"	117°56'21.89"	70	8°51'43.789"	117°56'14.976"			
25	8°51'32.924"	117°56'21.936"	71	8°51'44.179"	117°56'14.691"			
26	8°51'33.237"	117°56'21.961"	72	8°51'44.433"	117°56'14.509"			
27	8°51'33.408"	117°56'21.959"	73	8°51'44.712"	117°56'14.266"			
28	8°51'33.48"	117°56'21.944"	74	8°51'44.952"	117°56'13.941"			
29	8°51'33.61"	117°56'21.919"	75	8°51'45.149"	117°56'13.642"			
30	8°51'33.701"	117°56'21.902"	76	8°51'45.504"	117°56'13.272"			
31	8°51'33.824"	117°56'21.84"	77	8°51'45.854"	117°56'12.989"			
32	8°51'33.936"	117°56'21.747"	78	8°51'46.286"	117°56'12.572"			
33	8°51'34.023"	117°56'21.655"	79	8°51'46.023"	117°56'12.067"			
34	8°51'34.074"	117°56'21.538"	80	8°51'45.687"	117°56'11.65"			
35	8°51'34.129"	117°56'21.37"	81	8°51'45.428"	117°56'11.261"			
36	8°51'34.216"	117°56'21.015"	82	8°51'45.163"	117°56'11.443"			
37	8°51'34.282"	117°56'20.787"	83	8°51'44.82"	117°56'11.664"			
38	8°51'34.417"	117°56'20.478"	84	8°51'44.509"	117°56'11.868"			
39	8°51'34.53"	117°56'20.241"	85	8°51'44.197"	117°56'12.1"			
40	8°51'34.702"	117°56'19.986"	86	8°51'43.941"	117°56'12.311"			
41	8°51'35.002"	117°56'19.697"	87	8°51'43.668"	117°56'12.449"			
42	8°51'35.276"	117°56'19.514"	88	8°51'43.396"	117°56'12.57"			
43	8°51'35.515"	117°56'19.375"	89	8°51'43.02"	117°56'12.619"			
44	8°51'35.729"	117°56'19.23"	90	8°51'42.684"	117°56'12.634"			
45	8°51'35.972"	117°56'19.055"	91	8°51'42.275"	117°56'12.63"			
46	8°51'36.22"	117°56'18.912"	92	8°51'41.976"	117°56'12.666"			

STOCKYARD 01B

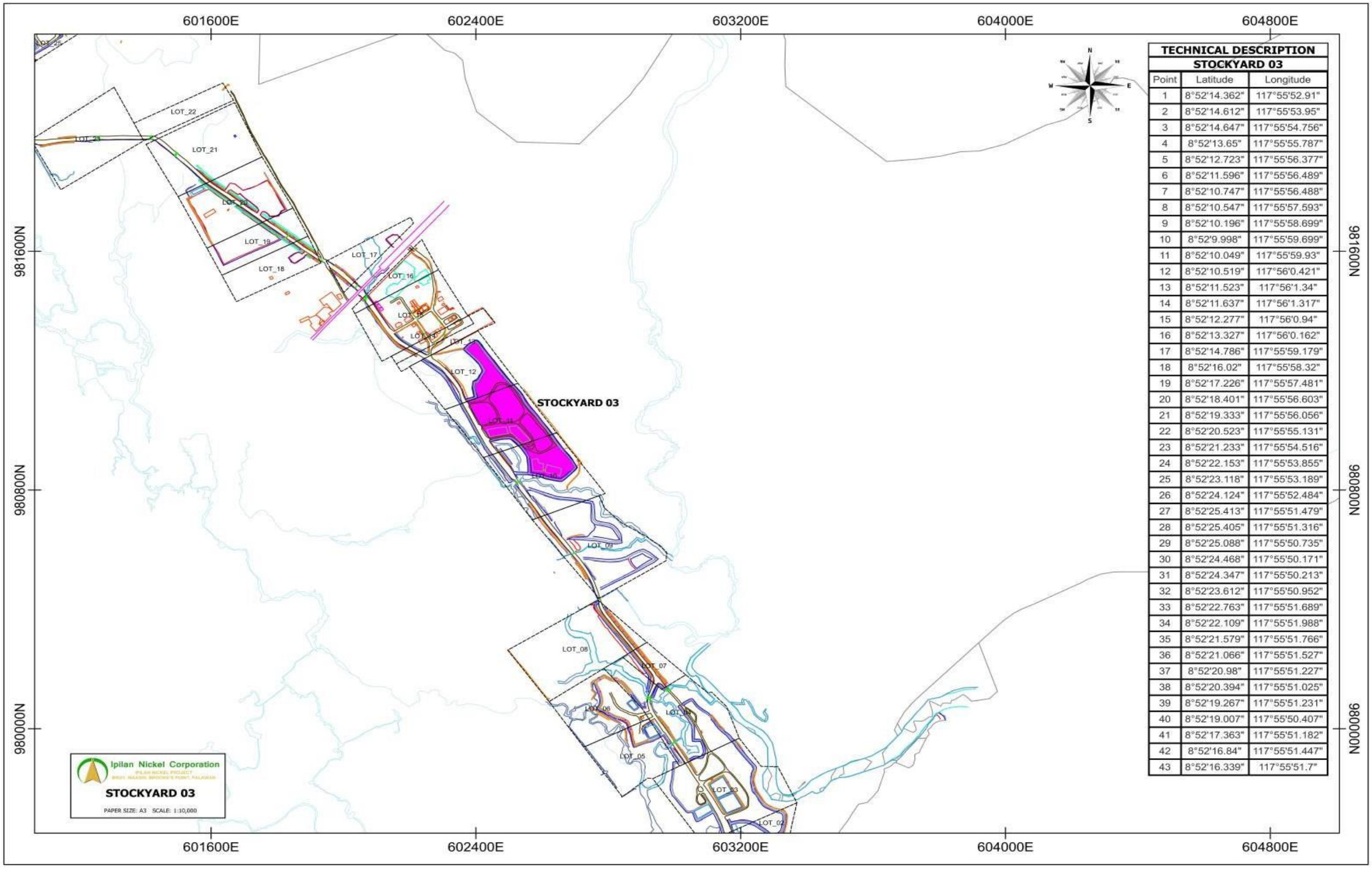
Point	Latitude	Longitude
1	8°51'39.408"	117°56'11.38"
2	8°51'39.409"	117°56'11.247"
3	8°51'39.332"	117°56'10.747"
4	8°51'38.941"	117°56'10.73"
5	8°51'38.512"	117°56'10.715"
6	8°51'38.001"	117°56'10.689"
7	8°51'37.397"	117°56'10.596"
8	8°51'36.94"	117°56'10.514"
9	8°51'36.546"	117°56'10.476"
10	8°51'36.206"	117°56'10.52"
11	8°51'35.878"	117°56'10.607"
12	8°51'35.539"	117°56'10.823"
13	8°51'35.312"	117°56'11.004"
14	8°51'34.968"	117°56'11.242"
15	8°51'34.612"	117°56'11.504"
16	8°51'34.275"	117°56'11.756"
17	8°51'34.022"	117°56'11.952"
18	8°51'33.849"	117°56'12.139"
19	8°51'33.861"	117°56'12.463"
20	8°51'33.89"	117°56'12.655"
21	8°51'33.568"	117°56'12.754"
22	8°51'33.258"	117°56'12.86"
23	8°51'32.875"	117°56'13.046"
24	8°51'32.893"	117°56'13.198"
25	8°51'32.955"	117°56'13.336"
26	8°51'33.042"	117°56'13.485"
27	8°51'33.244"	117°56'13.793"
28	8°51'33.466"	117°56'14.149"
29	8°51'33.71"	117°56'14.52"
30	8°51'33.885"	117°56'14.769"



TECHNICAL DESCRIPTION

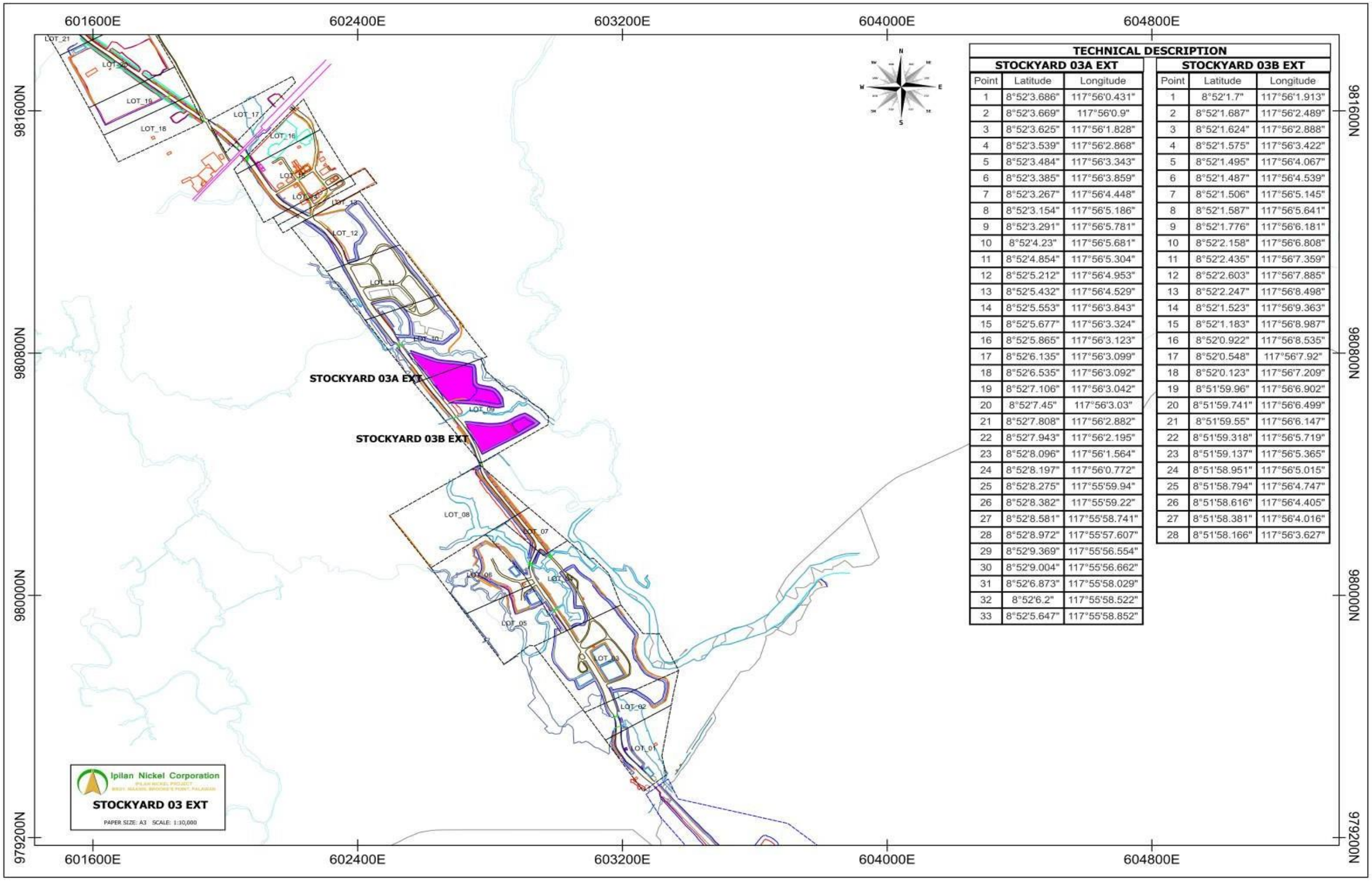
STOCKYARD 02

Point	Latitude	Longitude
1	8°51'48.477"	117°56'4.787"
2	8°51'48.471"	117°56'4.74"
3	8°51'48.485"	117°56'4.678"
4	8°51'48.535"	117°56'4.573"
5	8°51'48.583"	117°56'4.493"
6	8°51'48.652"	117°56'4.376"
7	8°51'48.72"	117°56'4.261"
8	8°51'48.864"	117°56'4.034"
9	8°51'48.873"	117°56'3.924"
10	8°51'48.83"	117°56'3.859"
11	8°51'48.749"	117°56'3.734"
12	8°51'48.697"	117°56'3.647"
13	8°51'48.64"	117°56'3.54"
14	8°51'48.48"	117°56'3.331"
15	8°51'48.452"	117°56'3.279"
16	8°51'48.401"	117°56'3.215"
17	8°51'48.329"	117°56'3.118"
18	8°51'48.233"	117°56'2.989"
19	8°51'48.179"	117°56'2.906"
20	8°51'47.988"	117°56'2.925"
21	8°51'47.869"	117°56'2.997"
22	8°51'47.785"	117°56'3.034"
23	8°51'47.668"	117°56'3.086"
24	8°51'47.541"	117°56'3.111"
25	8°51'47.445"	117°56'3.152"
26	8°51'47.348"	117°56'3.191"
27	8°51'47.253"	117°56'3.238"
28	8°51'47.182"	117°56'3.258"
29	8°51'47.076"	117°56'3.263"
30	8°51'46.891"	117°56'3.326"
31	8°51'46.83"	117°56'3.391"
32	8°51'46.741"	117°56'3.429"
33	8°51'46.643"	117°56'3.437"
34	8°51'46.519"	117°56'3.465"
35	8°51'46.432"	117°56'3.484"
36	8°51'46.339"	117°56'3.507"
37	8°51'46.273"	117°56'3.513"
38	8°51'46.194"	117°56'3.53"
39	8°51'46.142"	117°56'3.539"
40	8°51'46.061"	117°56'3.542"
41	8°51'46.018"	117°56'3.541"
42	8°51'45.941"	117°56'3.539"
43	8°51'45.897"	117°56'3.533"
44	8°51'45.819"	117°56'3.514"
45	8°51'45.773"	117°56'3.499"
46	8°51'45.683"	117°56'3.467"
47	8°51'45.618"	117°56'3.443"
48	8°51'45.536"	117°56'3.412"
49	8°51'45.47"	117°56'3.378"
50	8°51'45.293"	117°56'3.281"
51	8°51'45.145"	117°56'3.297"
52	8°51'45.081"	117°56'3.349"
53	8°51'45.007"	117°56'3.485"
54	8°51'44.958"	117°56'3.577"
55	8°51'44.913"	117°56'3.669"
56	8°51'44.885"	117°56'3.744"
57	8°51'44.84"	117°56'3.829"
58	8°51'44.799"	117°56'3.906"
59	8°51'44.755"	117°56'3.983"
60	8°51'44.719"	117°56'4.028"
61	8°51'44.652"	117°56'4.136"
62	8°51'44.575"	117°56'4.186"
63	8°51'44.489"	117°56'4.283"
64	8°51'44.459"	117°56'4.384"
65	8°51'44.478"	117°56'4.449"
66	8°51'44.422"	117°56'4.53"
67	8°51'44.368"	117°56'4.623"
68	8°51'44.323"	117°56'4.696"
69	8°51'44.258"	117°56'4.818"
70	8°51'44.224"	117°56'4.895"
71	8°51'44.167"	117°56'4.998"
72	8°51'44.1"	117°56'5.122"
73	8°51'44.05"	117°56'5.239"
74	8°51'44.03"	117°56'5.295"
75	8°51'43.983"	117°56'5.443"
76	8°51'43.921"	117°56'5.59"
77	8°51'43.872"	117°56'5.676"
78	8°51'43.808"	117°56'5.788"
79	8°51'43.616"	117°56'6.082"
80	8°51'43.501"	117°56'6.181"
81	8°51'43.255"	117°56'6.259"
82	8°51'43.077"	117°56'6.303"
83	8°51'43.002"	117°56'6.288"
84	8°51'42.861"	117°56'6.308"
85	8°51'42.77"	117°56'6.366"
86	8°51'42.586"	117°56'6.455"
87	8°51'42.314"	117°56'6.54"
88	8°51'42.036"	117°56'6.581"
89	8°51'41.801"	117°56'6.628"
90	8°51'41.63"	117°56'6.672"
91	8°51'41.433"	117°56'6.726"
92	8°51'41.261"	117°56'6.766"
93	8°51'41.111"	117°56'6.811"
94	8°51'40.997"	117°56'6.861"
95	8°51'40.971"	117°56'6.885"
96	8°51'41.013"	117°56'7.049"
97	8°51'41.063"	117°56'7.165"
98	8°51'41.102"	117°56'7.261"
99	8°51'41.158"	117°56'7.391"
100	8°51'41.209"	117°56'7.501"
101	8°51'41.282"	117°56'7.677"
102	8°51'41.325"	117°56'7.783"
103	8°51'41.369"	117°56'7.89"
104	8°51'41.425"	117°56'8.036"
105	8°51'41.475"	117°56'8.184"
106	8°51'41.495"	117°56'8.294"
107	8°51'41.518"	117°56'8.41"
108	8°51'41.541"	117°56'8.514"
109	8°51'41.592"	117°56'8.675"
110	8°51'41.646"	117°56'8.819"
111	8°51'41.723"	117°56'8.948"
112	8°51'41.824"	117°56'9.077"
113	8°51'41.841"	117°56'9.151"
114	8°51'41.925"	117°56'9.302"
115	8°51'42.031"	117°56'9.47"
116	8°51'42.107"	117°56'9.572"
117	8°51'42.176"	117°56'9.694"
118	8°51'42.196"	117°56'9.744"
119	8°51'42.198"	117°56'9.756"
120	8°51'42.201"	117°56'9.766"
121	8°51'42.201"	117°56'9.787"
122	8°51'45.384"	117°56'8.142"
123	8°51'45.387"	117°56'8.044"
124	8°51'45.391"	117°56'7.954"
125	8°51'45.418"	117°56'7.793"
126	8°51'45.43"	117°56'7.766"
127	8°51'45.494"	117°56'7.683"
128	8°51'45.532"	117°56'7.647"
129	8°51'45.665"	117°56'7.541"
130	8°51'45.775"	117°56'7.473"
131	8°51'45.95"	117°56'7.355"
132	8°51'46.07"	117°56'7.278"
133	8°51'46.211"	117°56'7.181"
134	8°51'46.319"	117°56'7.101"
135	8°51'46.452"	117°56'7.01"
136	8°51'46.537"	117°56'6.956"
137	8°51'46.661"	117°56'6.875"
138	8°51'46.768"	117°56'6.817"
139	8°51'46.922"	117°56'6.735"
140	8°51'46.968"	117°56'6.708"
141	8°51'47.046"	117°56'6.653"
142	8°51'47.083"	117°56'6.626"
143	8°51'47.164"	117°56'6.57"
144	8°51'47.223"	117°56'6.527"
145	8°51'47.293"	117°56'6.477"
146	8°51'47.368"	117°56'6.423"
147	8°51'47.44"	117°56'6.367"
148	8°51'47.509"	117°56'6.312"
149	8°51'47.582"	117°56'6.256"
150	8°51'47.628"	117°56'6.219"
151	8°51'47.706"	117°56'6.16"
152	8°51'47.757"	117°56'6.117"
153	8°51'47.828"	117°56'6.053"
154	8°51'47.889"	117°56'6.002"
155	8°51'47.949"	117°56'5.952"
156	8°51'48.01"	117°56'5.902"
157	8°51'48.072"	117°56'5.841"
158	8°51'48.128"	117°56'5.777"
159	8°51'48.212"	117°56'5.684"
160	8°51'48.234"	117°56'5.636"
161	8°51'48.232"	117°56'5.535"
162	8°51'48.244"	117°56'5.499"
163	8°51'48.288"	117°56'5.46"
164	8°51'48.465"	117°56'5.271"
165	8°51'48.506"	117°56'5.107"
166	8°51'48.504"	117°56'5.011"
167	8°51'48.466"	117°56'4.859"



TECHNICAL DESCRIPTION
STOCKYARD 03

Point	Latitude	Longitude
1	8°52'14.362"	117°55'52.91"
2	8°52'14.612"	117°55'53.95"
3	8°52'14.647"	117°55'54.756"
4	8°52'13.65"	117°55'55.787"
5	8°52'12.723"	117°55'56.377"
6	8°52'11.596"	117°55'56.489"
7	8°52'10.747"	117°55'56.488"
8	8°52'10.547"	117°55'57.593"
9	8°52'10.196"	117°55'58.699"
10	8°52'9.998"	117°55'59.699"
11	8°52'10.049"	117°55'59.93"
12	8°52'10.519"	117°56'0.421"
13	8°52'11.523"	117°56'1.34"
14	8°52'11.637"	117°56'1.317"
15	8°52'12.277"	117°56'0.94"
16	8°52'13.327"	117°56'0.162"
17	8°52'14.786"	117°55'59.179"
18	8°52'16.02"	117°55'58.32"
19	8°52'17.226"	117°55'57.481"
20	8°52'18.401"	117°55'56.603"
21	8°52'19.333"	117°55'56.056"
22	8°52'20.523"	117°55'55.131"
23	8°52'21.233"	117°55'54.516"
24	8°52'22.153"	117°55'53.855"
25	8°52'23.118"	117°55'53.189"
26	8°52'24.124"	117°55'52.484"
27	8°52'25.413"	117°55'51.479"
28	8°52'25.405"	117°55'51.316"
29	8°52'25.088"	117°55'50.735"
30	8°52'24.468"	117°55'50.171"
31	8°52'24.347"	117°55'50.213"
32	8°52'23.612"	117°55'50.952"
33	8°52'22.763"	117°55'51.689"
34	8°52'22.109"	117°55'51.988"
35	8°52'21.579"	117°55'51.766"
36	8°52'21.066"	117°55'51.527"
37	8°52'20.98"	117°55'51.227"
38	8°52'20.394"	117°55'51.025"
39	8°52'19.267"	117°55'51.231"
40	8°52'19.007"	117°55'50.407"
41	8°52'17.363"	117°55'51.182"
42	8°52'16.84"	117°55'51.447"
43	8°52'16.339"	117°55'51.7"



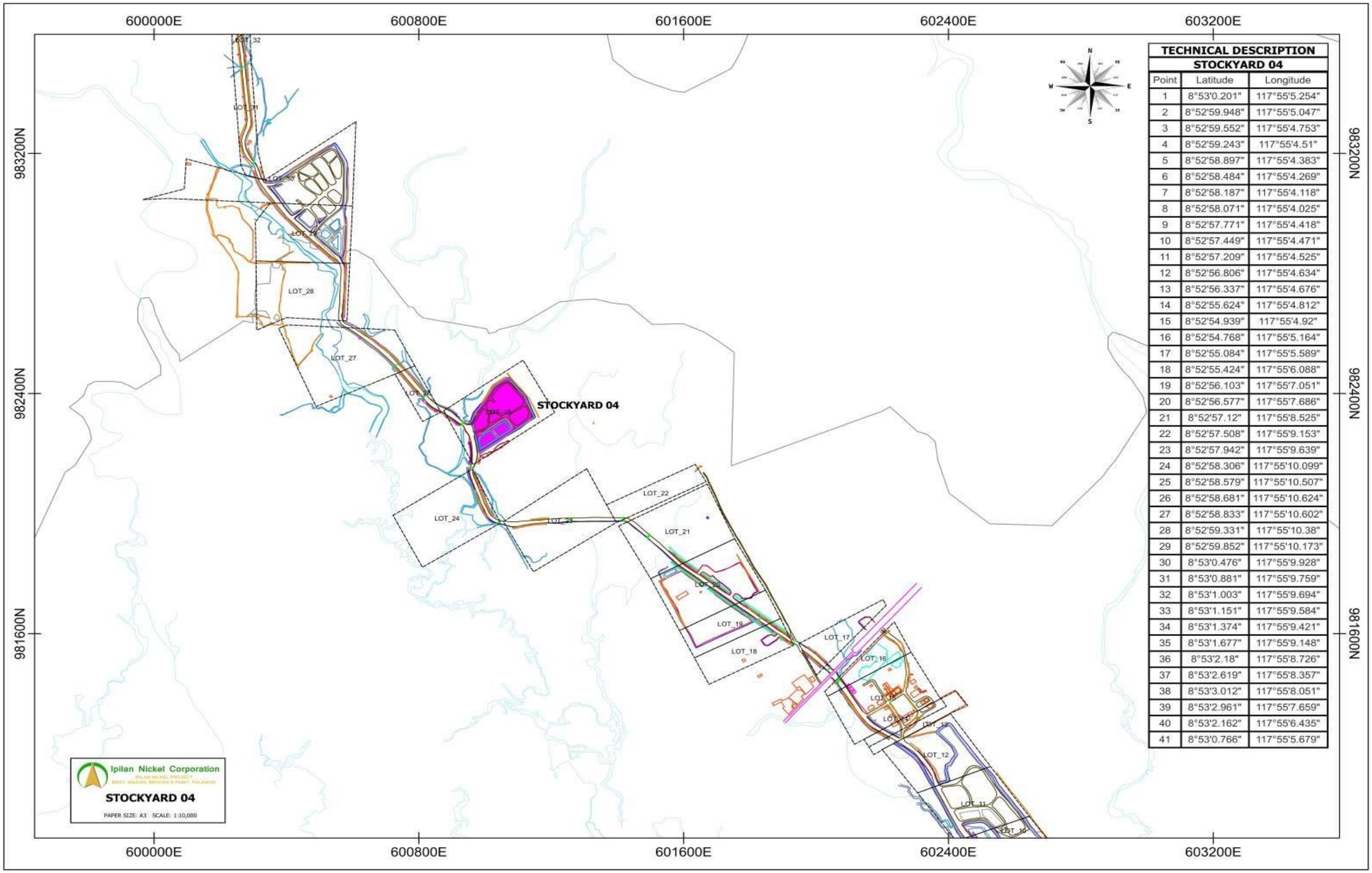
TECHNICAL DESCRIPTION

STOCKYARD 03A EXT

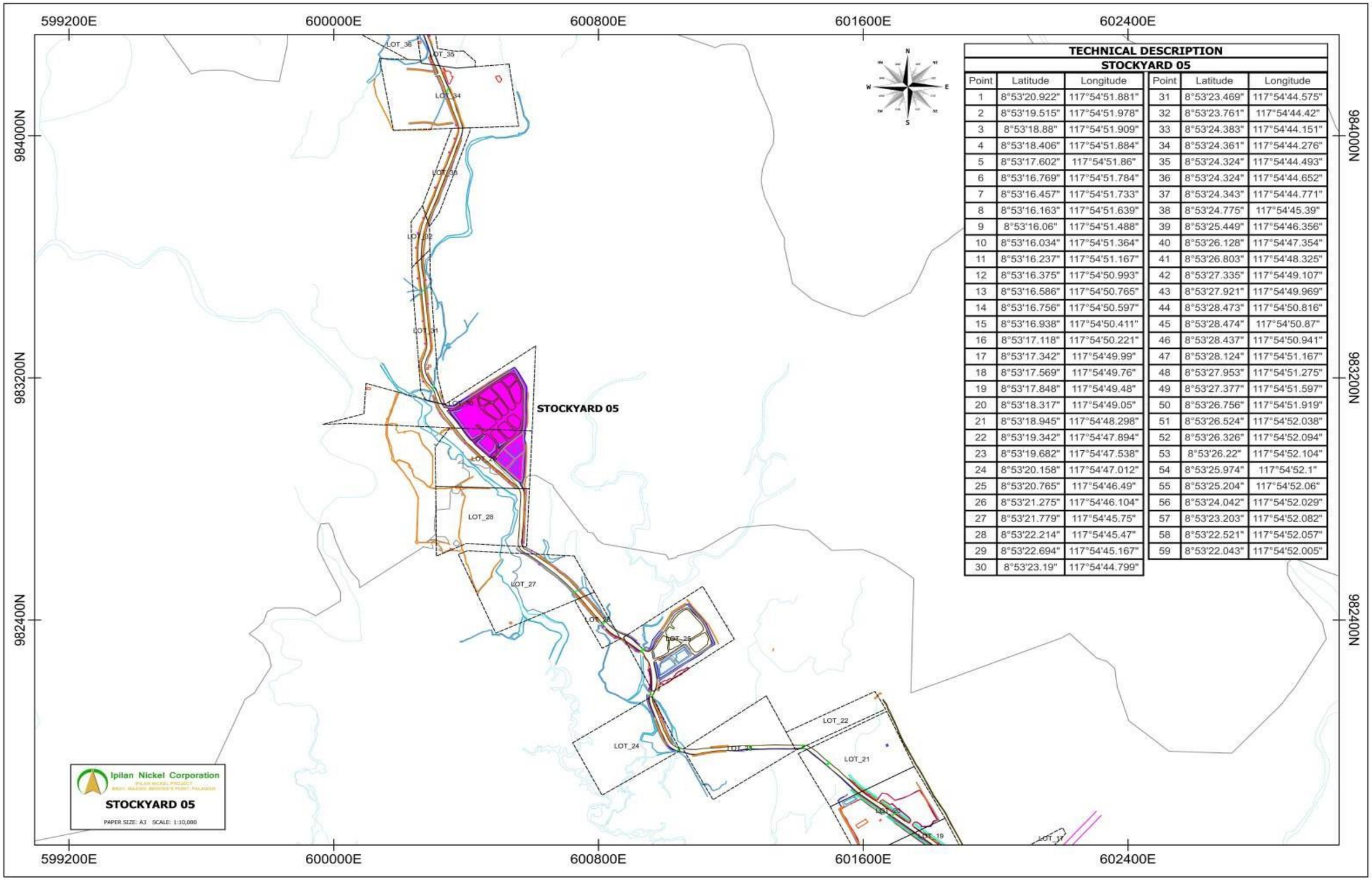
Point	Latitude	Longitude
1	8°52'3.686"	117°56'0.431"
2	8°52'3.669"	117°56'0.9"
3	8°52'3.625"	117°56'1.828"
4	8°52'3.539"	117°56'2.868"
5	8°52'3.484"	117°56'3.343"
6	8°52'3.385"	117°56'3.859"
7	8°52'3.267"	117°56'4.448"
8	8°52'3.154"	117°56'5.186"
9	8°52'3.291"	117°56'5.781"
10	8°52'4.23"	117°56'5.681"
11	8°52'4.854"	117°56'5.304"
12	8°52'5.212"	117°56'4.953"
13	8°52'5.432"	117°56'4.529"
14	8°52'5.553"	117°56'3.843"
15	8°52'5.677"	117°56'3.324"
16	8°52'5.865"	117°56'3.123"
17	8°52'6.135"	117°56'3.099"
18	8°52'6.535"	117°56'3.092"
19	8°52'7.106"	117°56'3.042"
20	8°52'7.45"	117°56'3.03"
21	8°52'7.808"	117°56'2.882"
22	8°52'7.943"	117°56'2.195"
23	8°52'8.096"	117°56'1.564"
24	8°52'8.197"	117°56'0.772"
25	8°52'8.275"	117°55'59.94"
26	8°52'8.382"	117°55'59.22"
27	8°52'8.581"	117°55'58.741"
28	8°52'8.972"	117°55'57.607"
29	8°52'9.369"	117°55'56.554"
30	8°52'9.004"	117°55'56.662"
31	8°52'6.873"	117°55'58.029"
32	8°52'6.2"	117°55'58.522"
33	8°52'5.647"	117°55'58.852"

STOCKYARD 03B EXT

Point	Latitude	Longitude
1	8°52'1.7"	117°56'1.913"
2	8°52'1.687"	117°56'2.489"
3	8°52'1.624"	117°56'2.888"
4	8°52'1.575"	117°56'3.422"
5	8°52'1.495"	117°56'4.067"
6	8°52'1.487"	117°56'4.539"
7	8°52'1.506"	117°56'5.145"
8	8°52'1.587"	117°56'5.641"
9	8°52'1.776"	117°56'6.181"
10	8°52'2.158"	117°56'6.808"
11	8°52'2.435"	117°56'7.359"
12	8°52'2.603"	117°56'7.885"
13	8°52'2.247"	117°56'8.498"
14	8°52'1.523"	117°56'9.363"
15	8°52'1.183"	117°56'8.987"
16	8°52'0.922"	117°56'8.535"
17	8°52'0.548"	117°56'7.92"
18	8°52'0.123"	117°56'7.209"
19	8°51'59.96"	117°56'6.902"
20	8°51'59.741"	117°56'6.499"
21	8°51'59.55"	117°56'6.147"
22	8°51'59.318"	117°56'5.719"
23	8°51'59.137"	117°56'5.365"
24	8°51'58.951"	117°56'5.015"
25	8°51'58.794"	117°56'4.747"
26	8°51'58.616"	117°56'4.405"
27	8°51'58.381"	117°56'4.016"
28	8°51'58.166"	117°56'3.627"

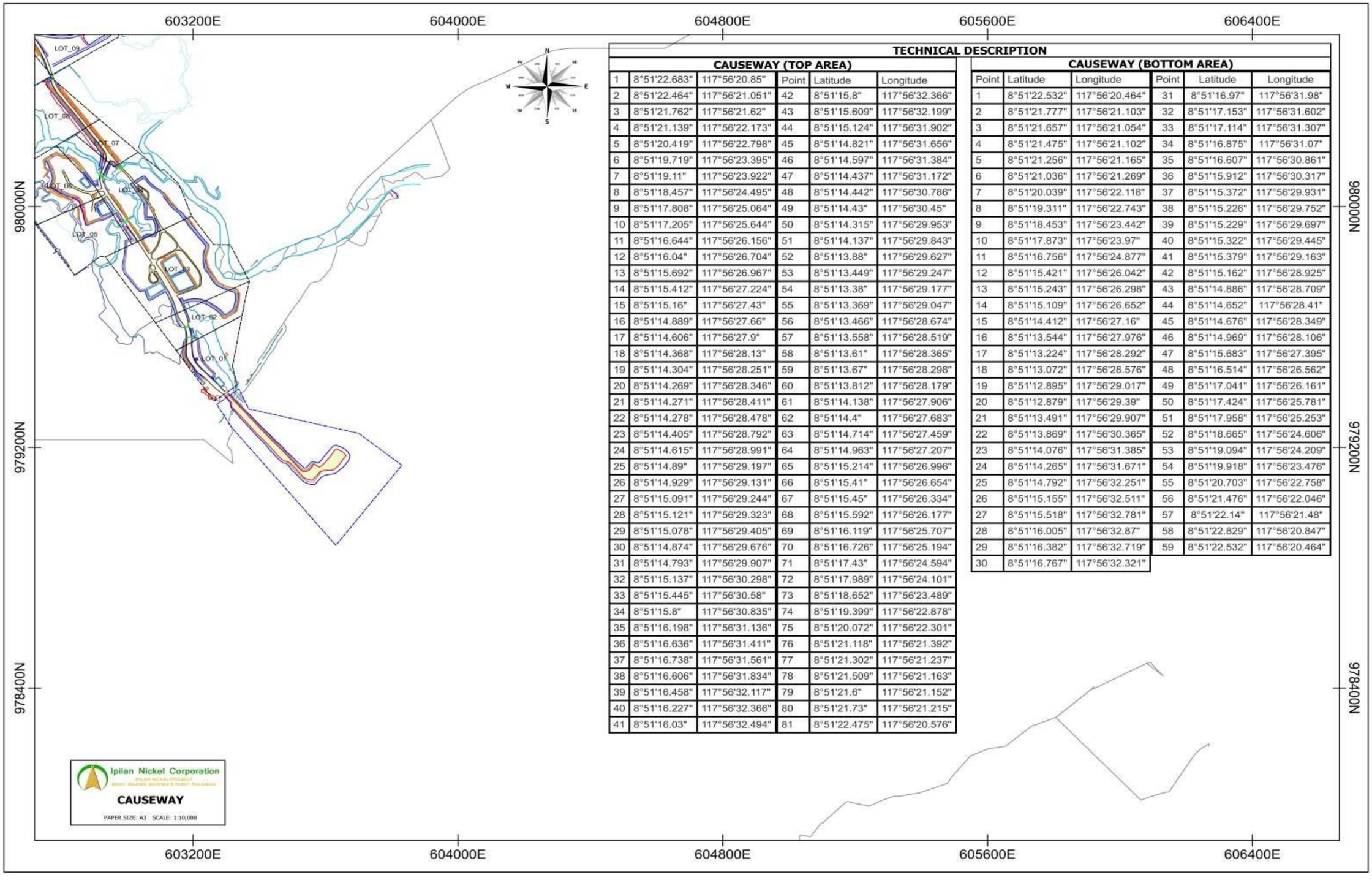


TECHNICAL DESCRIPTION STOCKYARD 04		
Point	Latitude	Longitude
1	8°53'0.201"	117°55'5.254"
2	8°52'59.948"	117°55'5.047"
3	8°52'59.552"	117°55'4.753"
4	8°52'59.243"	117°55'4.51"
5	8°52'58.897"	117°55'4.383"
6	8°52'58.484"	117°55'4.269"
7	8°52'58.187"	117°55'4.118"
8	8°52'58.071"	117°55'4.025"
9	8°52'57.771"	117°55'4.418"
10	8°52'57.449"	117°55'4.471"
11	8°52'57.209"	117°55'4.525"
12	8°52'56.806"	117°55'4.634"
13	8°52'56.337"	117°55'4.676"
14	8°52'55.624"	117°55'4.812"
15	8°52'54.939"	117°55'4.92"
16	8°52'54.768"	117°55'5.164"
17	8°52'55.084"	117°55'5.589"
18	8°52'55.424"	117°55'6.088"
19	8°52'56.103"	117°55'7.051"
20	8°52'56.577"	117°55'7.686"
21	8°52'57.12"	117°55'8.525"
22	8°52'57.508"	117°55'9.153"
23	8°52'57.942"	117°55'9.639"
24	8°52'58.306"	117°55'10.099"
25	8°52'58.579"	117°55'10.507"
26	8°52'58.681"	117°55'10.624"
27	8°52'58.833"	117°55'10.602"
28	8°52'59.331"	117°55'10.38"
29	8°52'59.852"	117°55'10.173"
30	8°53'0.476"	117°55'9.928"
31	8°53'0.881"	117°55'9.759"
32	8°53'1.003"	117°55'9.694"
33	8°53'1.151"	117°55'9.584"
34	8°53'1.374"	117°55'9.421"
35	8°53'1.677"	117°55'9.148"
36	8°53'2.18"	117°55'8.726"
37	8°53'2.619"	117°55'8.357"
38	8°53'3.012"	117°55'8.051"
39	8°53'2.961"	117°55'7.659"
40	8°53'2.162"	117°55'6.435"
41	8°53'0.766"	117°55'5.679"



TECHNICAL DESCRIPTION
STOCKYARD 05

Point	Latitude	Longitude	Point	Latitude	Longitude
1	8°53'20.922"	117°54'51.881"	31	8°53'23.469"	117°54'44.575"
2	8°53'19.515"	117°54'51.978"	32	8°53'23.761"	117°54'44.42"
3	8°53'18.88"	117°54'51.909"	33	8°53'24.383"	117°54'44.151"
4	8°53'18.406"	117°54'51.884"	34	8°53'24.361"	117°54'44.276"
5	8°53'17.602"	117°54'51.86"	35	8°53'24.324"	117°54'44.493"
6	8°53'16.769"	117°54'51.784"	36	8°53'24.324"	117°54'44.652"
7	8°53'16.457"	117°54'51.733"	37	8°53'24.343"	117°54'44.771"
8	8°53'16.163"	117°54'51.639"	38	8°53'24.775"	117°54'45.39"
9	8°53'16.06"	117°54'51.488"	39	8°53'25.449"	117°54'46.356"
10	8°53'16.034"	117°54'51.364"	40	8°53'26.128"	117°54'47.354"
11	8°53'16.237"	117°54'51.167"	41	8°53'26.803"	117°54'48.325"
12	8°53'16.375"	117°54'50.993"	42	8°53'27.335"	117°54'49.107"
13	8°53'16.586"	117°54'50.765"	43	8°53'27.921"	117°54'49.969"
14	8°53'16.756"	117°54'50.597"	44	8°53'28.473"	117°54'50.816"
15	8°53'16.938"	117°54'50.411"	45	8°53'28.474"	117°54'50.87"
16	8°53'17.118"	117°54'50.221"	46	8°53'28.437"	117°54'50.941"
17	8°53'17.342"	117°54'49.99"	47	8°53'28.124"	117°54'51.167"
18	8°53'17.569"	117°54'49.76"	48	8°53'27.953"	117°54'51.275"
19	8°53'17.848"	117°54'49.48"	49	8°53'27.377"	117°54'51.597"
20	8°53'18.317"	117°54'49.05"	50	8°53'26.756"	117°54'51.919"
21	8°53'18.945"	117°54'48.298"	51	8°53'26.524"	117°54'52.038"
22	8°53'19.342"	117°54'47.894"	52	8°53'26.326"	117°54'52.094"
23	8°53'19.682"	117°54'47.538"	53	8°53'26.22"	117°54'52.104"
24	8°53'20.158"	117°54'47.012"	54	8°53'25.974"	117°54'52.1"
25	8°53'20.765"	117°54'46.49"	55	8°53'25.204"	117°54'52.06"
26	8°53'21.275"	117°54'46.104"	56	8°53'24.042"	117°54'52.029"
27	8°53'21.779"	117°54'45.75"	57	8°53'23.203"	117°54'52.082"
28	8°53'22.214"	117°54'45.47"	58	8°53'22.521"	117°54'52.057"
29	8°53'22.694"	117°54'45.167"	59	8°53'22.043"	117°54'52.005"
30	8°53'23.19"	117°54'44.799"			



TECHNICAL DESCRIPTION

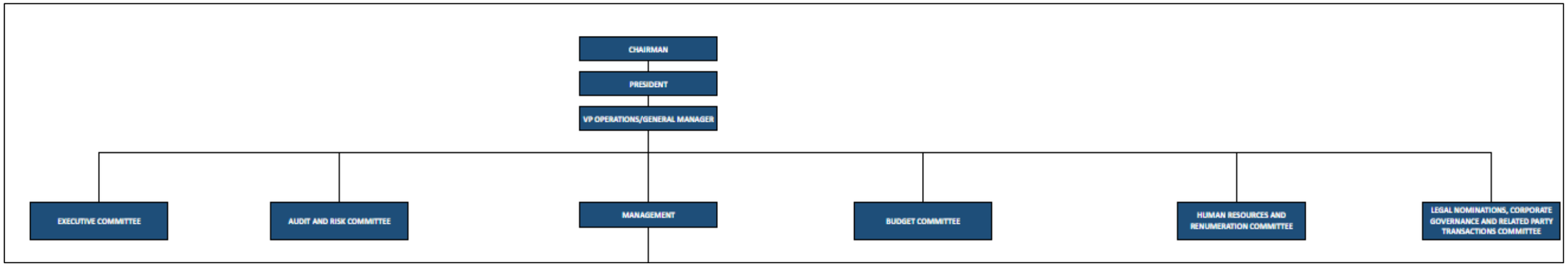
CAUSEWAY (TOP AREA)

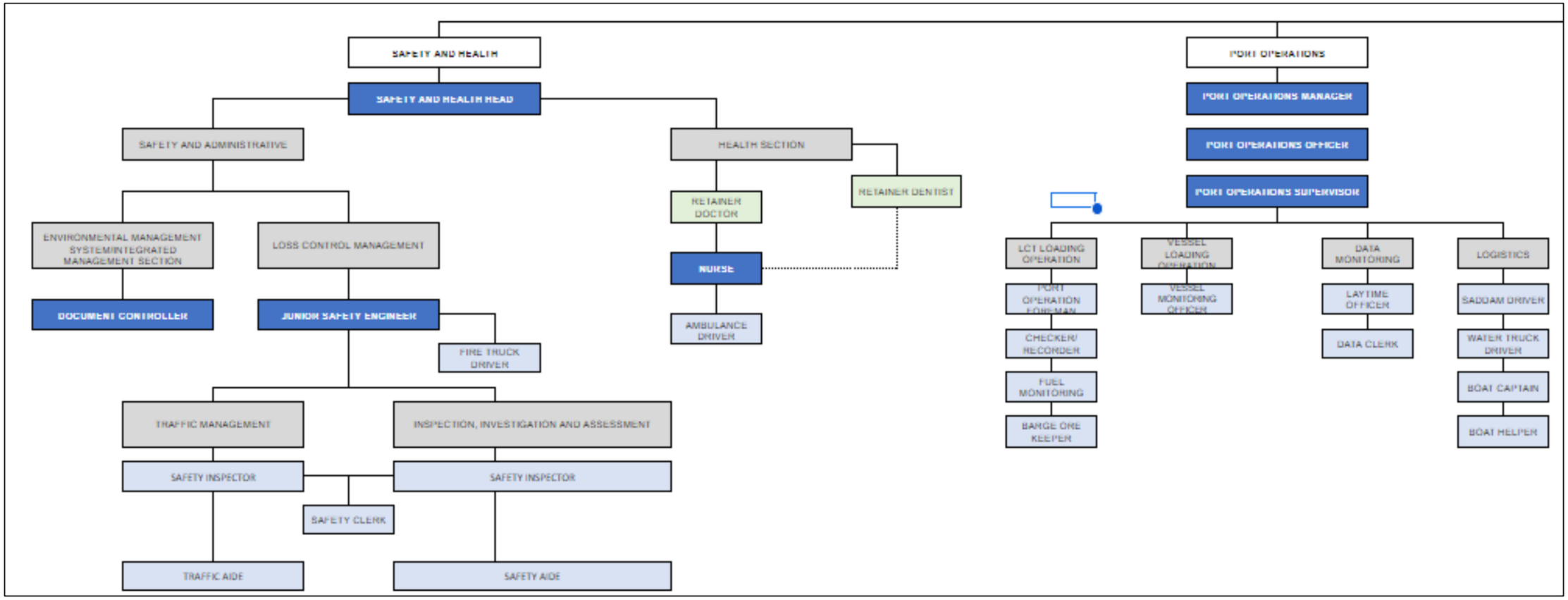
1	8°51'22.683"	117°56'20.85"	Point	Latitude	Longitude
2	8°51'22.464"	117°56'21.051"	42	8°51'15.8"	117°56'32.366"
3	8°51'21.762"	117°56'21.62"	43	8°51'15.609"	117°56'32.199"
4	8°51'21.139"	117°56'22.173"	44	8°51'15.124"	117°56'31.902"
5	8°51'20.419"	117°56'22.798"	45	8°51'14.821"	117°56'31.656"
6	8°51'19.719"	117°56'23.395"	46	8°51'14.597"	117°56'31.384"
7	8°51'19.11"	117°56'23.922"	47	8°51'14.437"	117°56'31.172"
8	8°51'18.457"	117°56'24.495"	48	8°51'14.442"	117°56'30.786"
9	8°51'17.808"	117°56'25.064"	49	8°51'14.43"	117°56'30.45"
10	8°51'17.205"	117°56'25.644"	50	8°51'14.315"	117°56'29.953"
11	8°51'16.644"	117°56'26.156"	51	8°51'14.137"	117°56'29.843"
12	8°51'16.04"	117°56'26.704"	52	8°51'13.88"	117°56'29.627"
13	8°51'15.692"	117°56'26.967"	53	8°51'13.449"	117°56'29.247"
14	8°51'15.412"	117°56'27.224"	54	8°51'13.38"	117°56'29.177"
15	8°51'15.16"	117°56'27.43"	55	8°51'13.369"	117°56'29.047"
16	8°51'14.889"	117°56'27.66"	56	8°51'13.466"	117°56'28.674"
17	8°51'14.606"	117°56'27.9"	57	8°51'13.558"	117°56'28.519"
18	8°51'14.368"	117°56'28.13"	58	8°51'13.61"	117°56'28.365"
19	8°51'14.304"	117°56'28.251"	59	8°51'13.67"	117°56'28.298"
20	8°51'14.269"	117°56'28.346"	60	8°51'13.812"	117°56'28.179"
21	8°51'14.271"	117°56'28.411"	61	8°51'14.138"	117°56'27.906"
22	8°51'14.278"	117°56'28.478"	62	8°51'14.4"	117°56'27.683"
23	8°51'14.405"	117°56'28.792"	63	8°51'14.714"	117°56'27.459"
24	8°51'14.615"	117°56'28.991"	64	8°51'14.963"	117°56'27.207"
25	8°51'14.89"	117°56'29.197"	65	8°51'15.214"	117°56'26.996"
26	8°51'14.929"	117°56'29.131"	66	8°51'15.41"	117°56'26.654"
27	8°51'15.091"	117°56'29.244"	67	8°51'15.45"	117°56'26.334"
28	8°51'15.121"	117°56'29.323"	68	8°51'15.592"	117°56'26.177"
29	8°51'15.078"	117°56'29.405"	69	8°51'16.119"	117°56'25.707"
30	8°51'14.874"	117°56'29.676"	70	8°51'16.726"	117°56'25.194"
31	8°51'14.793"	117°56'29.907"	71	8°51'17.43"	117°56'24.594"
32	8°51'15.137"	117°56'30.298"	72	8°51'17.989"	117°56'24.101"
33	8°51'15.445"	117°56'30.58"	73	8°51'18.652"	117°56'23.489"
34	8°51'15.8"	117°56'30.835"	74	8°51'19.399"	117°56'22.878"
35	8°51'16.198"	117°56'31.136"	75	8°51'20.072"	117°56'22.301"
36	8°51'16.636"	117°56'31.411"	76	8°51'21.118"	117°56'21.392"
37	8°51'16.738"	117°56'31.561"	77	8°51'21.302"	117°56'21.237"
38	8°51'16.606"	117°56'31.834"	78	8°51'21.509"	117°56'21.163"
39	8°51'16.458"	117°56'32.117"	79	8°51'21.6"	117°56'21.152"
40	8°51'16.227"	117°56'32.366"	80	8°51'21.73"	117°56'21.215"
41	8°51'16.03"	117°56'32.494"	81	8°51'22.475"	117°56'20.576"

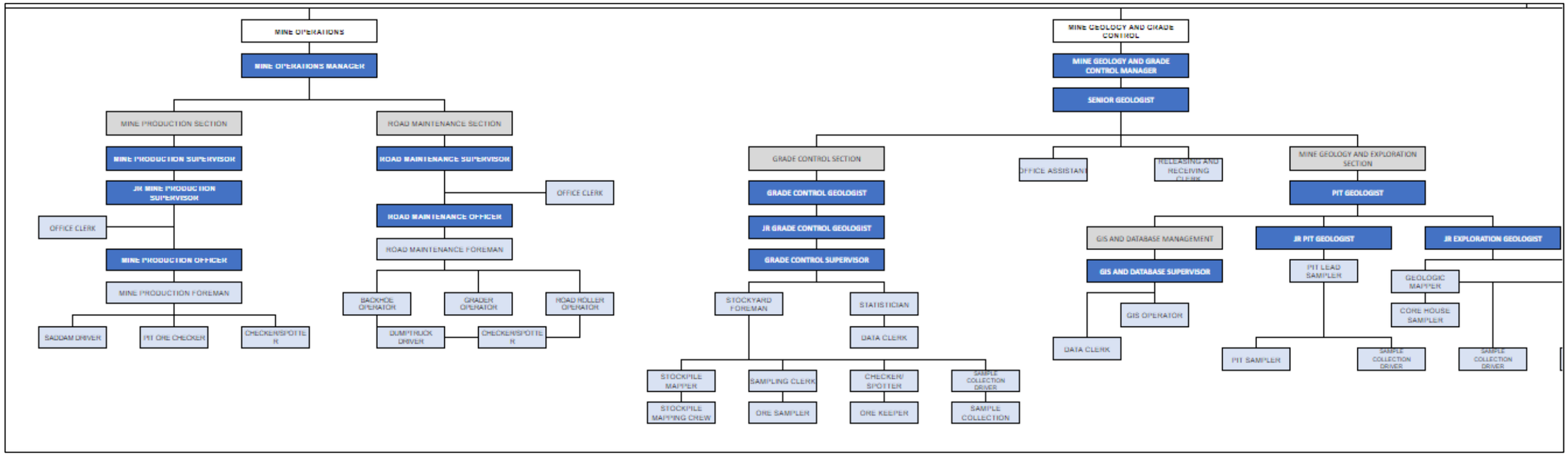
CAUSEWAY (BOTTOM AREA)

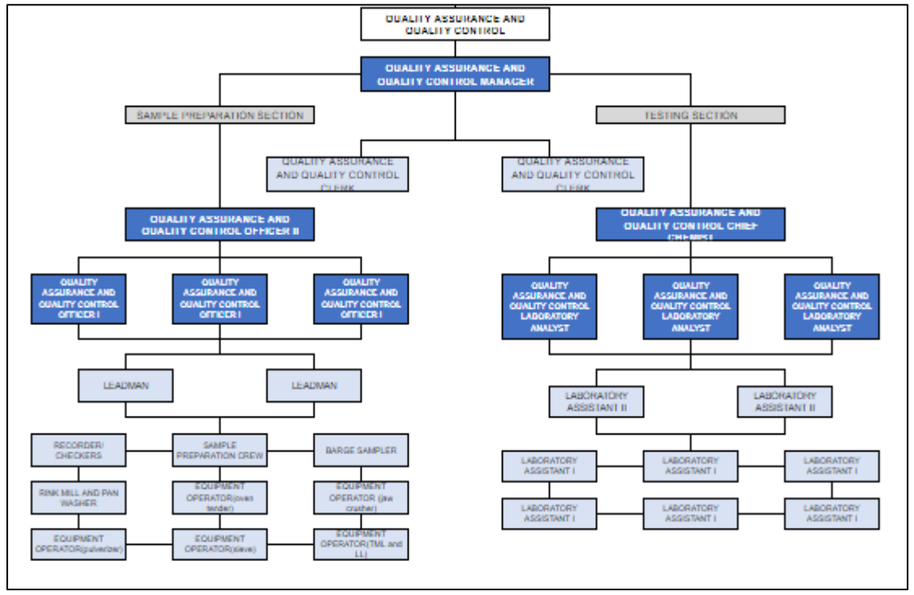
Point	Latitude	Longitude	Point	Latitude	Longitude
1	8°51'22.532"	117°56'20.464"	31	8°51'16.97"	117°56'31.98"
2	8°51'21.777"	117°56'21.103"	32	8°51'17.153"	117°56'31.602"
3	8°51'21.657"	117°56'21.054"	33	8°51'17.114"	117°56'31.307"
4	8°51'21.475"	117°56'21.102"	34	8°51'16.875"	117°56'31.07"
5	8°51'21.256"	117°56'21.165"	35	8°51'16.607"	117°56'30.861"
6	8°51'21.036"	117°56'21.269"	36	8°51'15.912"	117°56'30.317"
7	8°51'20.039"	117°56'22.118"	37	8°51'15.372"	117°56'29.931"
8	8°51'19.311"	117°56'22.743"	38	8°51'15.226"	117°56'29.752"
9	8°51'18.453"	117°56'23.442"	39	8°51'15.229"	117°56'29.697"
10	8°51'17.873"	117°56'23.97"	40	8°51'15.322"	117°56'29.445"
11	8°51'16.756"	117°56'24.877"	41	8°51'15.379"	117°56'29.163"
12	8°51'15.421"	117°56'26.042"	42	8°51'15.162"	117°56'28.925"
13	8°51'15.243"	117°56'26.298"	43	8°51'14.886"	117°56'28.709"
14	8°51'15.109"	117°56'26.652"	44	8°51'14.652"	117°56'28.41"
15	8°51'14.412"	117°56'27.16"	45	8°51'14.676"	117°56'28.349"
16	8°51'13.544"	117°56'27.976"	46	8°51'14.969"	117°56'28.106"
17	8°51'13.224"	117°56'28.292"	47	8°51'15.683"	117°56'27.395"
18	8°51'13.072"	117°56'28.576"	48	8°51'16.514"	117°56'26.562"
19	8°51'12.895"	117°56'29.017"	49	8°51'17.041"	117°56'26.161"
20	8°51'12.879"	117°56'29.39"	50	8°51'17.424"	117°56'25.781"
21	8°51'13.491"	117°56'29.907"	51	8°51'17.958"	117°56'25.253"
22	8°51'13.869"	117°56'30.365"	52	8°51'18.665"	117°56'24.606"
23	8°51'14.076"	117°56'31.385"	53	8°51'19.094"	117°56'24.209"
24	8°51'14.265"	117°56'31.671"	54	8°51'19.918"	117°56'23.476"
25	8°51'14.792"	117°56'32.251"	55	8°51'20.703"	117°56'22.758"
26	8°51'15.155"	117°56'32.511"	56	8°51'21.476"	117°56'22.046"
27	8°51'15.518"	117°56'32.781"	57	8°51'22.14"	117°56'21.48"
28	8°51'16.005"	117°56'32.87"	58	8°51'22.829"	117°56'20.847"
29	8°51'16.382"	117°56'32.719"	59	8°51'22.532"	117°56'20.464"
30	8°51'16.767"	117°56'32.321"			

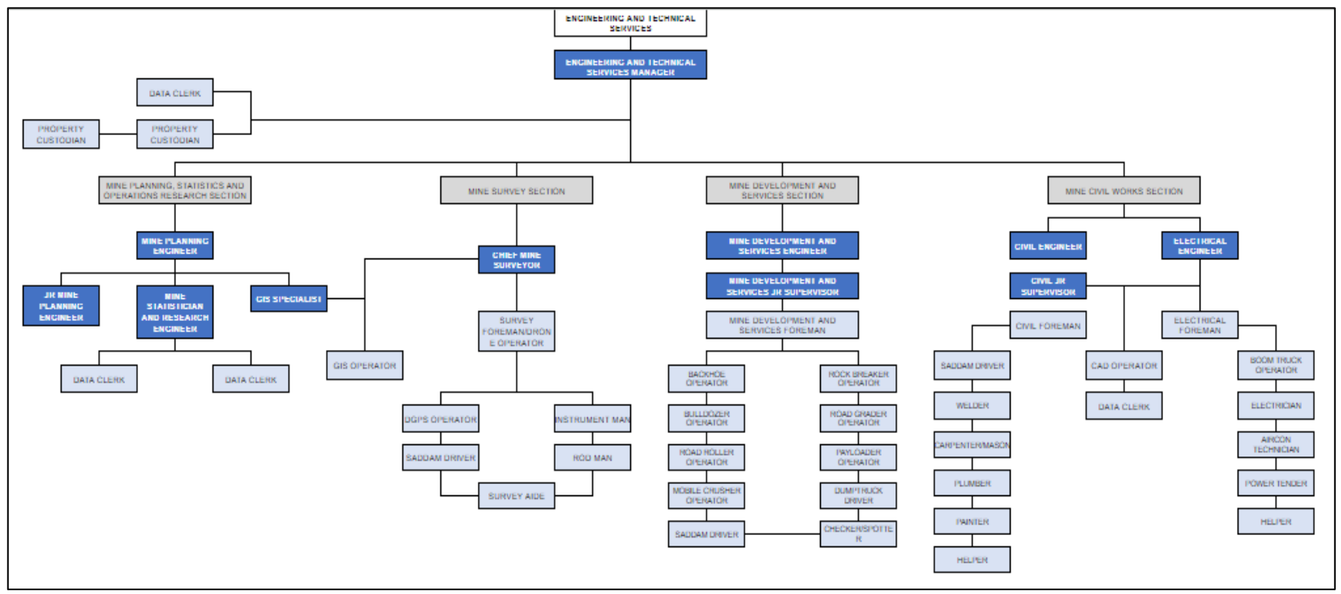
ANNEX 3: INC TABLE OF ORGANIZATION

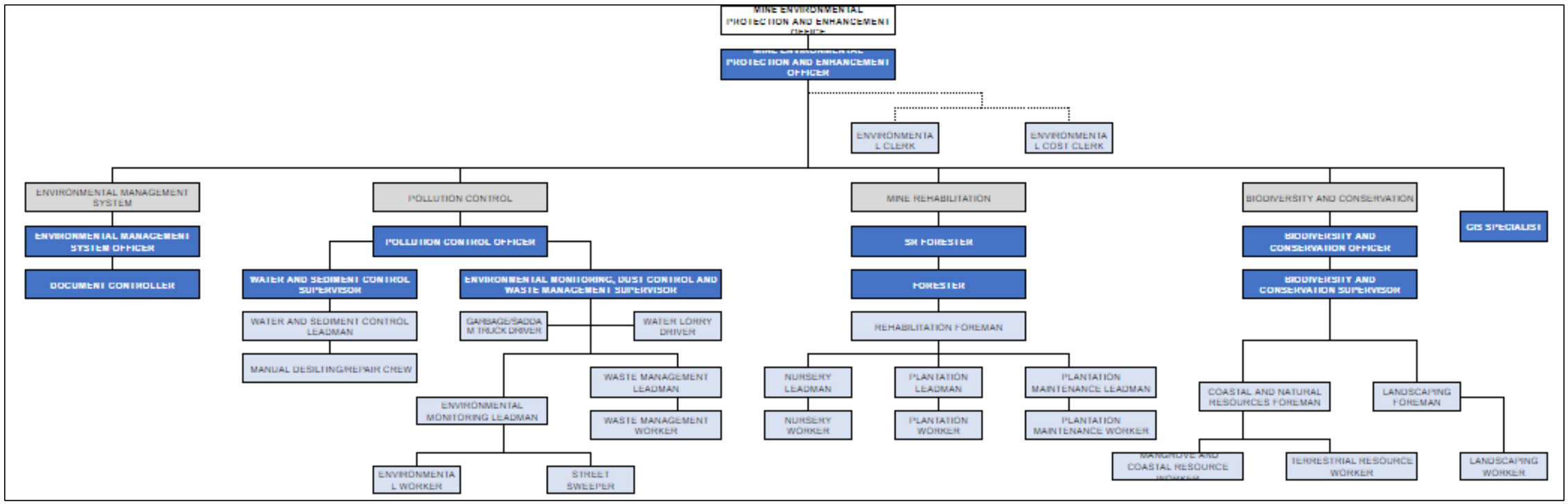

CHAIRMAN
PRESIDENT
VP OPERATIONS/GENERAL MANAGER
EXECUTIVE COMMITTEE
AUDIT AND RISK COMMITTEE
MANAGEMENT
BUDGET COMMITTEE
HUMAN RESOURCES AND REMUNERATION COMMITTEE
LEGAL NOMINATIONS, CORPORATE GOVERNANCE AND RELATED PARTY TRANSACTIONS COMMITTEE

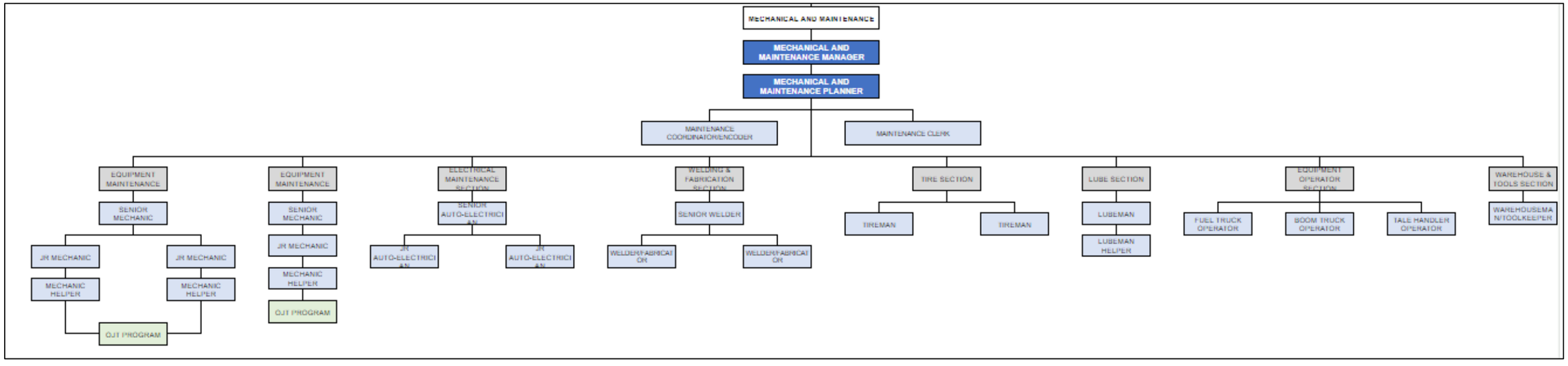

SAFETY AND HEALTH
SAFETY AND HEALTH HEAD
SAFETY AND ADMINISTRATIVE
ENVIRONMENTAL MANAGEMENT SYSTEM/INTEGRATED MANAGEMENT SECTION
LOSS CONTROL MANAGEMENT
DOCUMENT CONTROLLER
JUNIOR SAFETY ENGINEER
FIRE TRUCK DRIVER
TRAFFIC MANAGEMENT
INSPECTION, INVESTIGATION AND ASSESSMENT
SAFETY INSPECTOR
SAFETY INSPECTOR
SAFETY CLERK
TRAFFIC AIDE
SAFETY AIDE
HEALTH SECTION
RETAINER DOCTOR
RETAINER DENTIST
NURSE
AMBULANCE DRIVER
PORT OPERATIONS
PORT OPERATIONS MANAGER
PORT OPERATIONS OFFICER
PORT OPERATIONS SUPERVISOR
LCT LOADING OPERATION
VESSEL LOADING OPERATION
DATA MONITORING
LOGISTICS
PORT OPERATION FOREMAN
VESSEL MONITORING OFFICER
LAYTIME OFFICER
SADDAM DRIVER
CHECKER/ RECORDER
DATA CLERK
WATER TRUCK DRIVER
FUEL MONITORING
BOAT CAPTAIN
BARGE ORE KEEPER
BOAT HELPER

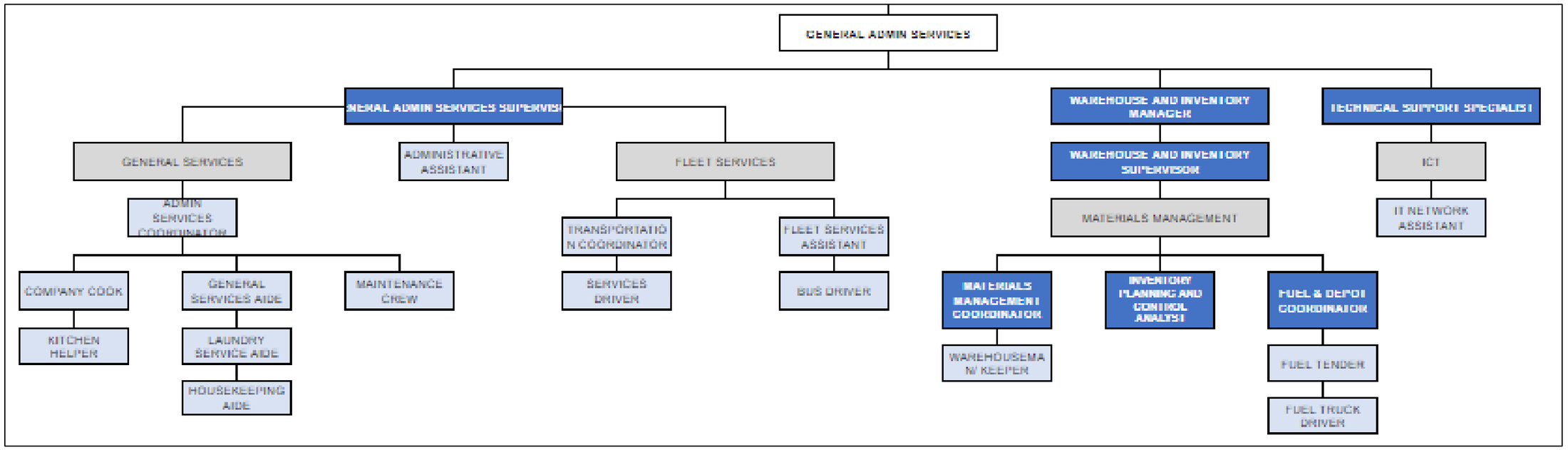

MINE OPERATIONS
MINE OPERATIONS MANAGER
MINE PRODUCTION SECTION
MINE PRODUCTION SUPERVISOR
JR MINE PRODUCTION SUPERVISOR
OFFICE CLERK
MINE PRODUCTION OFFICER
MINE PRODUCTION FOREMAN
SADDAM DRIVER
PIT ORE CHECKER
CHECKER/SPOTTER
ROAD MAINTENANCE SECTION
ROAD MAINTENANCE SUPERVISOR
OFFICE CLERK
ROAD MAINTENANCE OFFICER
ROAD MAINTENANCE FOREMAN
BACKHOE OPERATOR
GRADER OPERATOR
ROAD ROLLER OPERATOR
DUMPTRUCK DRIVER
CHECKER/SPOTTER
MINE GEOLOGY AND GRADE CONTROL
MINE GEOLOGY AND GRADE CONTROL MANAGER
SENIOR GEOLOGIST
GRADE CONTROL SECTION
GRADE CONTROL GEOLOGIST
JR GRADE CONTROL GEOLOGIST
GRADE CONTROL SUPERVISOR
STOCKYARD FOREMAN
STATISTICIAN
DATA CLERK
STOCKPILE MAPPER
SAMPLING CLERK
CHECKER/ SPOTTER
SAMPLE COLLECTION DRIVER
STOCKPILE MAPPING CREW
ORE SAMPLER
ORE KEEPER
SAMPLE COLLECTION
OFFICE ASSISTANT
RELEASING AND RECEIVING CLERK
MINE GEOLOGY AND EXPLORATION SECTION
PIT GEOLOGIST
GIS AND DATABASE MANAGEMENT
GIS AND DATABASE SUPERVISOR
GIS OPERATOR
DATA CLERK
JR PIT GEOLOGIST
PIT LEAD SAMPLER
PIT SAMPLER
SAMPLE COLLECTION DRIVER
JR EXPLORATION GEOLOGIST
GEOLOGIC MAPPER
CORE HOUSE SAMPLER
SAMPLE COLLECTION DRIVER

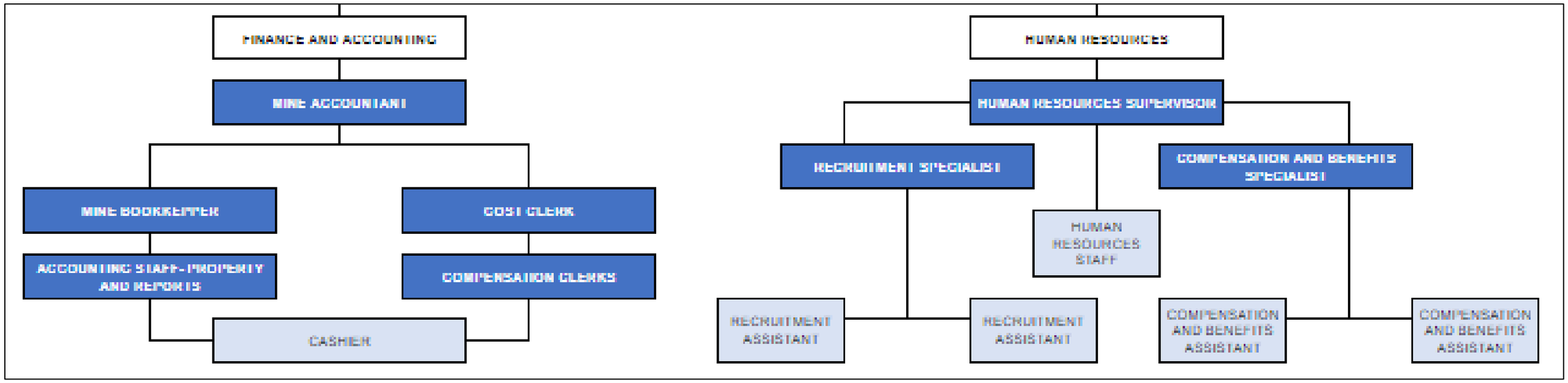

QUALITY ASSURANCE AND QUALITY CONTROL
QUALITY ASSURANCE AND QUALITY CONTROL MANAGER
SAMPLE PREPARATION SECTION
TESTING SECTION
QUALITY ASSURANCE AND QUALITY CONTROL CLERK
QUALITY ASSURANCE AND QUALITY CONTROL CLERK
QUALITY ASSURANCE AND QUALITY CONTROL OFFICER II
QUALITY ASSURANCE AND QUALITY CONTROL CHIEF
QUALITY ASSURANCE AND QUALITY CONTROL OFFICER I
QUALITY ASSURANCE AND QUALITY CONTROL OFFICER I
QUALITY ASSURANCE AND QUALITY CONTROL OFFICER I
QUALITY ASSURANCE AND QUALITY CONTROL LABORATORY ANALYST
QUALITY ASSURANCE AND QUALITY CONTROL LABORATORY ANALYST
QUALITY ASSURANCE AND QUALITY CONTROL LABORATORY ANALYST
LEADMAN
LEADMAN
LABORATORY ASSISTANT II
LABORATORY ASSISTANT II
RECORDER/ CHECKERS
SAMPLE PREPARATION CREW
BARGE SAMPLER
LABORATORY ASSISTANT I
LABORATORY ASSISTANT I
LABORATORY ASSISTANT I
RINK MILL AND PAN WASHER
EQUIPMENT OPERATOR(jaw feeder)
EQUIPMENT OPERATOR (jaw crusher)
LABORATORY ASSISTANT I
LABORATORY ASSISTANT I
LABORATORY ASSISTANT I
EQUIPMENT OPERATOR(pulverizer)
EQUIPMENT OPERATOR(sieve)
EQUIPMENT OPERATOR(TML and LL)

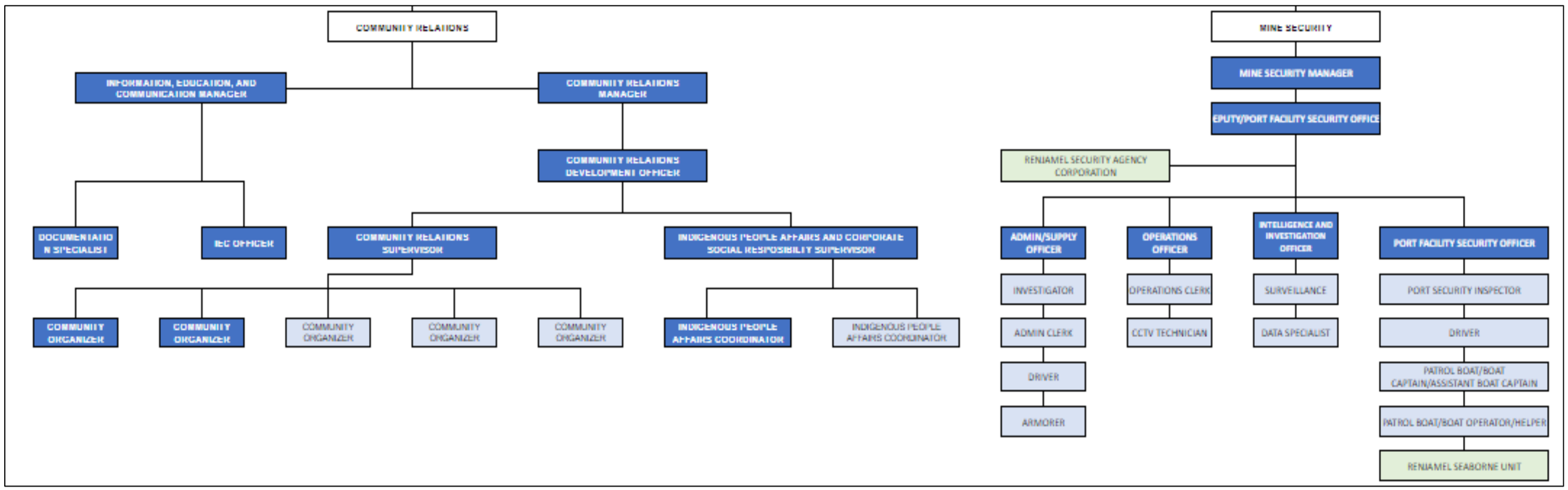

ENGINEERING AND TECHNICAL SERVICES
ENGINEERING AND TECHNICAL SERVICES MANAGER
DATA CLERK
PROPERTY CUSTODIAN
PROPERTY CUSTODIAN
MINE PLANNING, STATISTICS AND OPERATIONS RESEARCH SECTION
MINE SURVEY SECTION
MINE DEVELOPMENT AND SERVICES SECTION
MINE CIVIL WORKS SECTION
MINE PLANNING ENGINEER
JR MINE PLANNING ENGINEER
MINE STATISTICIAN AND RESEARCH ENGINEER
GIS SPECIALIST
DATA CLERK
DATA CLERK
GIS OPERATOR
CHIEF MINE SURVEYOR
SURVEY FOREMAN/CREW
DGPS OPERATOR
INSTRUMENT MAN
SADDAM DRIVER
ROD MAN
SURVEY AIDE
MINE DEVELOPMENT AND SERVICES ENGINEER
MINE DEVELOPMENT AND SERVICES JR SUPERVISOR
MINE DEVELOPMENT AND SERVICES FOREMAN
BACKHOE OPERATOR
BULLDOZER OPERATOR
ROAD ROLLER OPERATOR
MOBILE CRUSHER OPERATOR
SADDAM DRIVER
ROCK BREAKER OPERATOR
ROAD GRADER OPERATOR
PAYLOADER OPERATOR
DUMPTRUCK DRIVER
CHECKER/SPOTTER
CIVIL ENGINEER
ELECTRICAL ENGINEER
CIVIL JR SUPERVISOR
CIVIL FOREMAN
ELECTRICAL FOREMAN
SADDAM DRIVER
WELDER
CARPENTER/MASON
PLUMBER
PAINTER
HELPER
CAD OPERATOR
DATA CLERK
BOOM TRUCK OPERATOR
ELECTRICIAN
AIRCON TECHNICIAN
POWER TENDER
HELPER


MINE ENVIRONMENTAL PROTECTION AND ENHANCEMENT OFFICER
ENVIRONMENTAL CLERK
ENVIRONMENTAL COST CLERK
ENVIRONMENTAL MANAGEMENT SYSTEM
ENVIRONMENTAL MANAGEMENT SYSTEM OFFICER
DOCUMENT CONTROLLER
POLLUTION CONTROL
POLLUTION CONTROL OFFICER
WATER AND SEDIMENT CONTROL SUPERVISOR
WATER AND SEDIMENT CONTROL LEADMAN
MANUAL DESILTING/REPAIR CREW
ENVIRONMENTAL MONITORING, DUST CONTROL AND WASTE MANAGEMENT SUPERVISOR
GARBAGE/SADDAM TRUCK DRIVER
WATER LORRY DRIVER
ENVIRONMENTAL MONITORING LEADMAN
ENVIRONMENTAL WORKER
STREET SWEEPER
WASTE MANAGEMENT LEADMAN
WASTE MANAGEMENT WORKER
MINE REHABILITATION
SR FORESTER
FORESTER
REHABILITATION FOREMAN
NURSERY LEADMAN
NURSERY WORKER
PLANTATION LEADMAN
PLANTATION WORKER
PLANTATION MAINTENANCE LEADMAN
PLANTATION MAINTENANCE WORKER
BIODIVERSITY AND CONSERVATION
BIODIVERSITY AND CONSERVATION OFFICER
BIODIVERSITY AND CONSERVATION SUPERVISOR
COASTAL AND NATURAL RESOURCES FOREMAN
MANGROVE AND COASTAL RESOURCE WORKER
LANDSCAPING FOREMAN
TERRESTRIAL RESOURCE WORKER
LANDSCAPING WORKER
GIS SPECIALIST

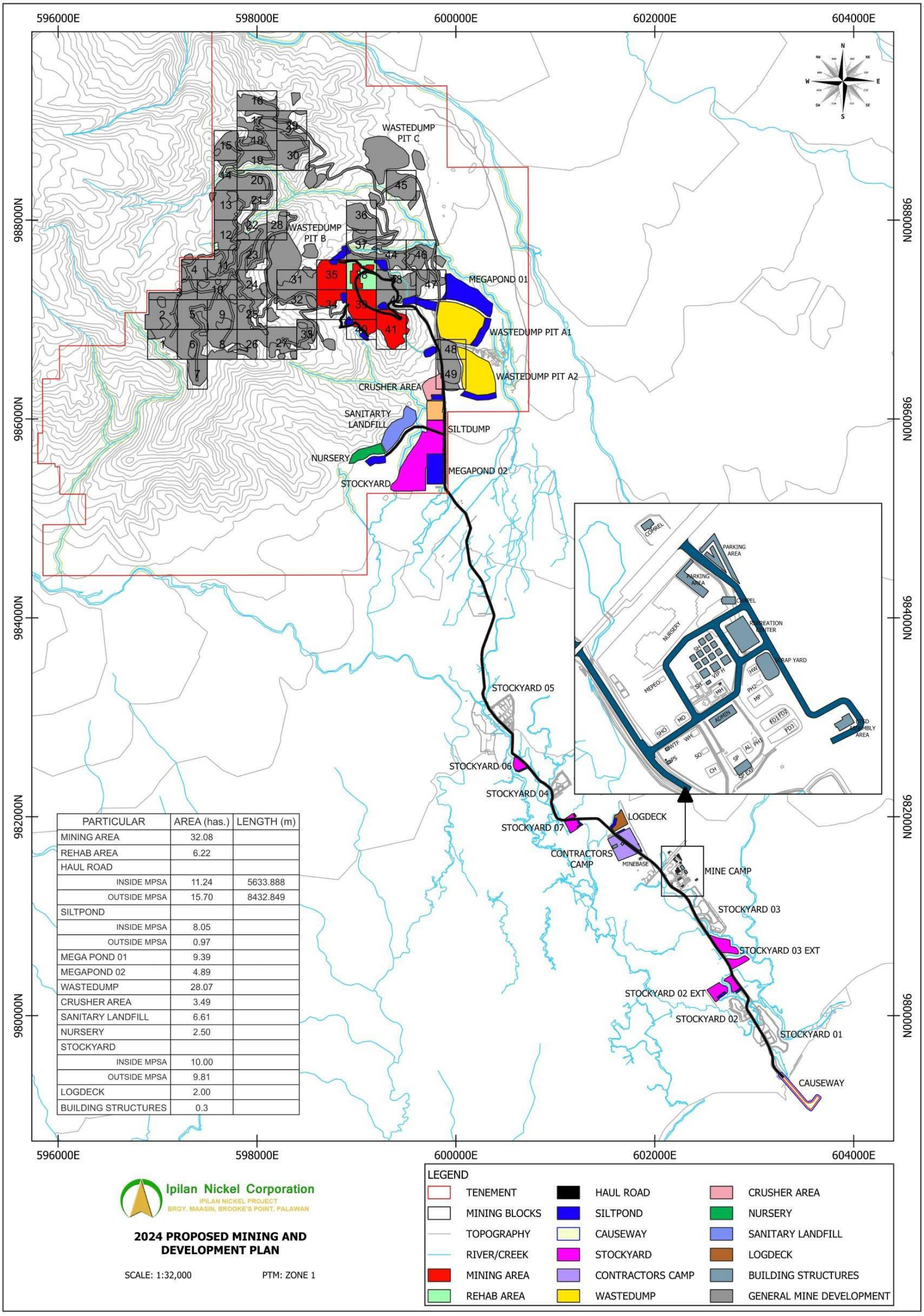

MECHANICAL AND MAINTENANCE
MECHANICAL AND MAINTENANCE MANAGER
MECHANICAL AND MAINTENANCE PLANNER
MAINTENANCE COORDINATOR/ENCODER
MAINTENANCE CLERK
EQUIPMENT MAINTENANCE
SENIOR MECHANIC
JR MECHANIC
JR MECHANIC
MECHANIC HELPER
MECHANIC HELPER
OJT PROGRAM
EQUIPMENT MAINTENANCE
SENIOR MECHANIC
JR MECHANIC
MECHANIC HELPER
OJT PROGRAM
ELECTRICAL MAINTENANCE SECTION
SENIOR AUTO-ELECTRICIAN
JR AUTO-ELECTRICIAN
JR AUTO-ELECTRICIAN
WELDING & FABRICATION SECTION
SENIOR WELDER
WELDER/FABRICATOR
WELDER/FABRICATOR
TIRE SECTION
TIREMAN
TIREMAN
LUBE SECTION
LUBEMAN
LUBEMAN HELPER
EQUIPMENT OPERATOR SECTION
FUEL TRUCK OPERATOR
BOOM TRUCK OPERATOR
TALE HANDLER OPERATOR
WAREHOUSE & TOOLS SECTION
WAREHOUSEMAN/TOOLKEEPER


GENERAL ADMIN SERVICES
GENERAL ADMIN SERVICES SUPERVISOR
GENERAL SERVICES
ADMIN SERVICES COORDINATOR
COMPANY COOK
KITCHEN HELPER
GENERAL SERVICES AIDE
LAUNDRY SERVICE AIDE
HOUSEKEEPING AIDE
MAINTENANCE CREW
ADMINISTRATIVE ASSISTANT
FLEET SERVICES
TRANSPORTATION COORDINATOR
SERVICES DRIVER
FLEET SERVICES ASSISTANT
BUS DRIVER
WAREHOUSE AND INVENTORY MANAGER
WAREHOUSE AND INVENTORY SUPERVISOR
MATERIALS MANAGEMENT
MATERIALS MANAGEMENT COORDINATOR
WAREHOUSEMAN/ KEEPER
INVENTORY PLANNING AND CONTROL ANALYST
FUEL & DEPOT COORDINATOR
FUEL TENDER
FUEL TRUCK DRIVER
TECHNICAL SUPPORT SPECIALIST
ICT
IT NETWORK ASSISTANT


FINANCE AND ACCOUNTING
MINE ACCOUNTANT
MINE BOOKKEEPER
ACCOUNTING STAFF- PROPERTY AND REPORTS
CASHIER
COST CLERK
COMPENSATION CLERKS
HUMAN RESOURCES
HUMAN RESOURCES SUPERVISOR
RECRUITMENT SPECIALIST
RECRUITMENT ASSISTANT
RECRUITMENT ASSISTANT
HUMAN RESOURCES STAFF
COMPENSATION AND BENEFITS SPECIALIST
COMPENSATION AND BENEFITS ASSISTANT
COMPENSATION AND BENEFITS ASSISTANT


COMMUNITY RELATIONS
INFORMATION, EDUCATION, AND COMMUNICATION MANAGER
COMMUNITY RELATIONS MANAGER
COMMUNITY RELATIONS DEVELOPMENT OFFICER
DOCUMENTATIO N SPECIALIST
IEC OFFICER
COMMUNITY RELATIONS SUPERVISOR
INDIGENOUS PEOPLE AFFAIRS AND CORPORATE SOCIAL RESPOSIBILITY SUPERVISOR
COMMUNITY ORGANIZER
COMMUNITY ORGANIZER
COMMUNITY ORGANIZER
COMMUNITY ORGANIZER
COMMUNITY ORGANIZER
INDIGENOUS PEOPLE AFFAIRS COORDINATOR
INDIGENOUS PEOPLE AFFAIRS COORDINATOR
MINE SECURITY
MINE SECURITY MANAGER
EPUTY/PORT FACILITY SECURITY OFFICE
RENIAMEL SECURITY AGENCY CORPORATION
ADMIN/SUPPLY OFFICER
OPERATIONS OFFICER
INTELLIGENCE AND INVESTIGATION OFFICER
PORT FACILITY SECURITY OFFICER
INVESTIGATOR
ADMIN CLERK
DRIVER
ARMORER
OPERATIONS CLERK
CCTV TECHNICIAN
SURVEILLANCE
DATA SPECIALIST
PORT SECURITY INSPECTOR
DRIVER
PATROL BOAT/BOAT CAPTAIN/ASSISTANT BOAT CAPTAIN
PATROL BOAT/BOAT OPERATOR/HELPER
RENIAMEL SEABORNE UNIT

ANNEX 4: PLANNED DEVELOPMENT SITES

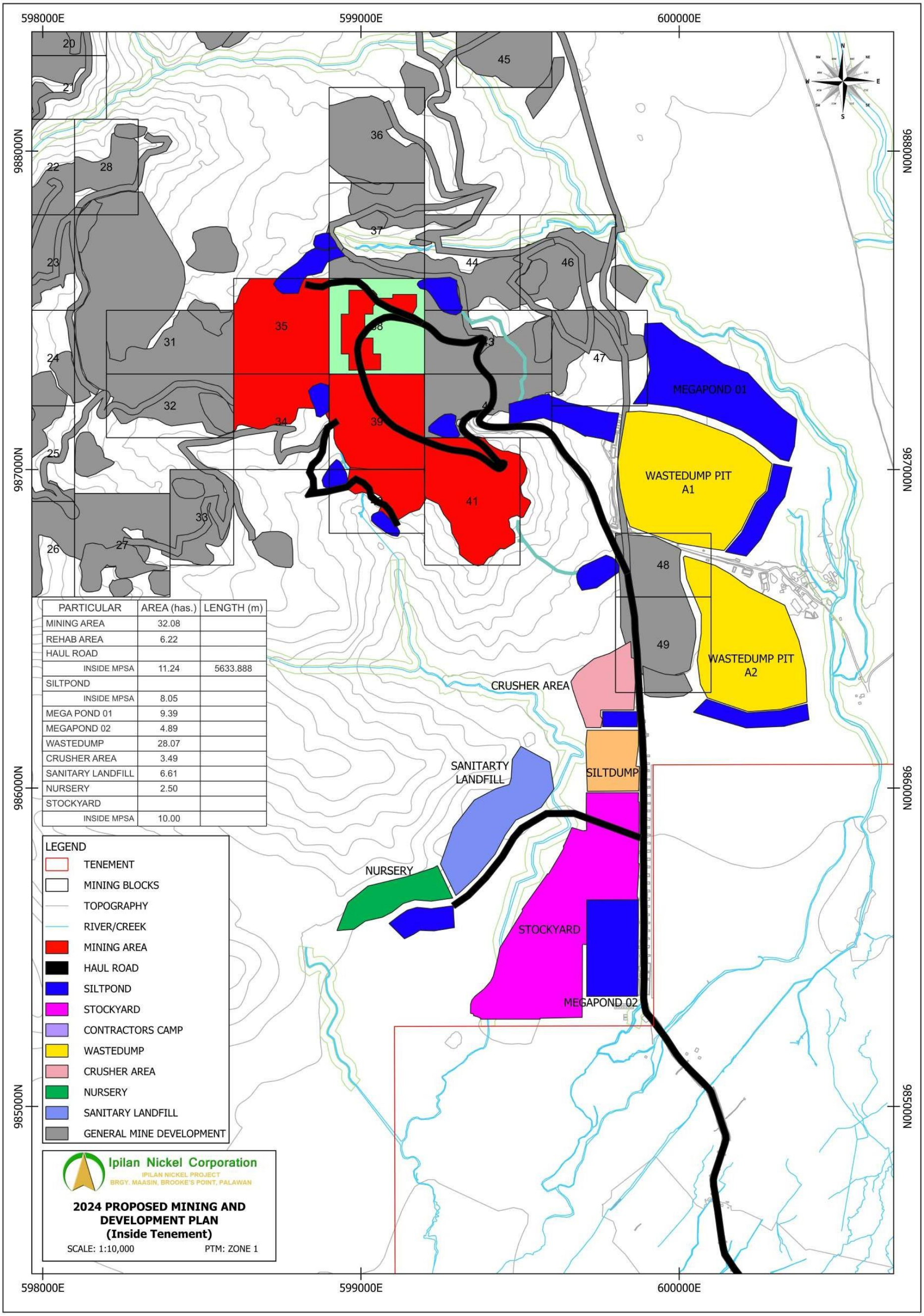


PARTICULAR	AREA (has.)	LENGTH (m)
MINING AREA	32.08	
REHAB AREA	6.22	
HAUL ROAD		
INSIDE MPSA	11.24	5633.888
OUTSIDE MPSA	15.70	8432.849
SILTPOND		
INSIDE MPSA	8.05	
OUTSIDE MPSA	0.97	
MEGA POND 01	9.39	
MEGAPOND 02	4.89	
WASTEDUMP	28.07	
CRUSHER AREA	3.49	
SANITARY LANDFILL	6.61	
NURSERY	2.50	
STOCKYARD		
INSIDE MPSA	10.00	
OUTSIDE MPSA	9.81	
LOGDECK	2.00	
BUILDING STRUCTURES	0.3	

Ipilan Nickel Corporation
IPILAN NICKEL PROJECT
BRGY. MAASIN, BROOKE'S POINT, PALAWAN

2024 PROPOSED MINING AND DEVELOPMENT PLAN

SCALE: 1:32,000 PTM: ZONE 1



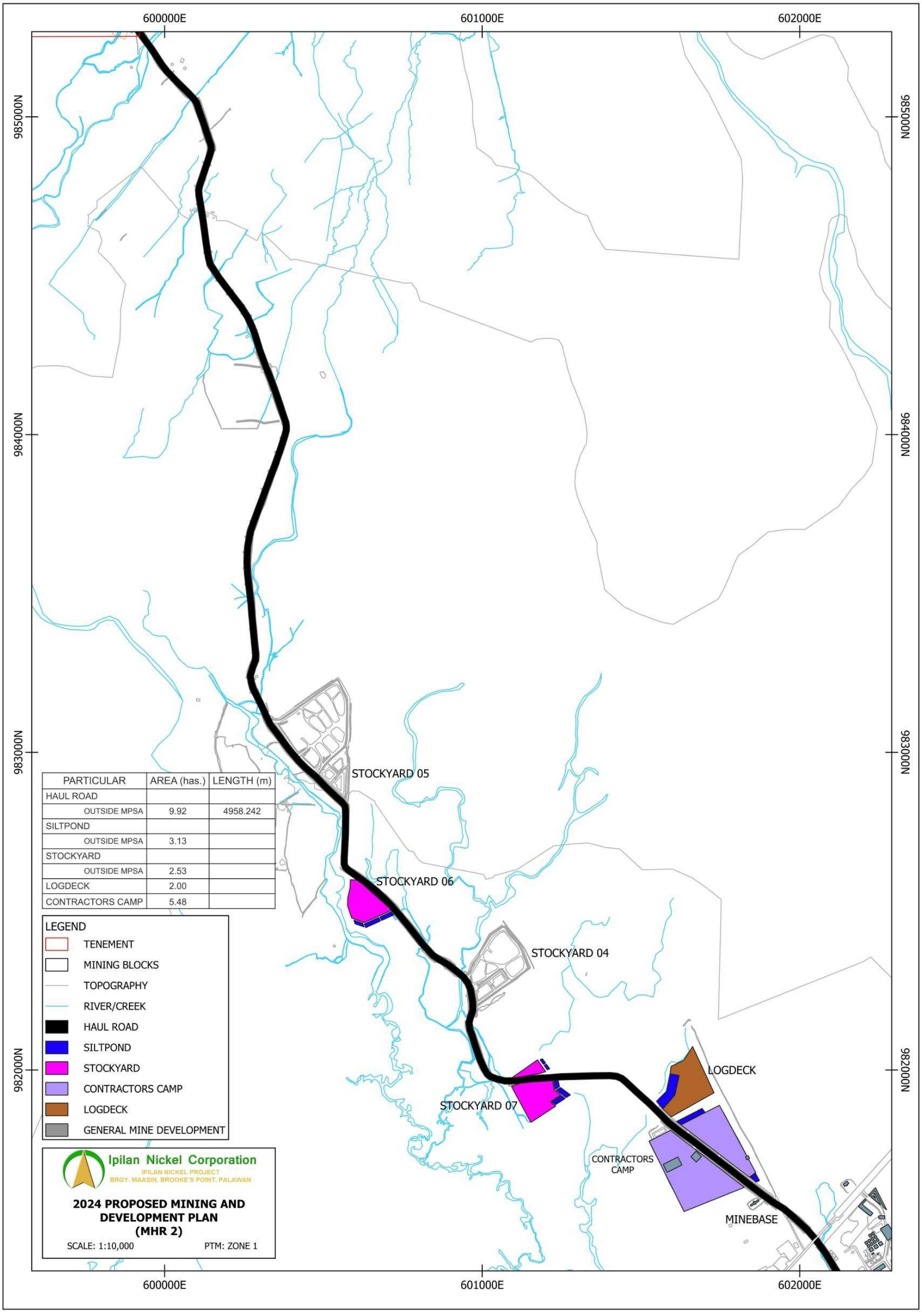
PARTICULAR	AREA (has.)	LENGTH (m)
MINING AREA	32.08	
REHAB AREA	6.22	
HAUL ROAD		
INSIDE MPSA	11.24	5633.888
SILTPOND		
INSIDE MPSA	8.05	
MEGA POND 01	9.39	
MEGAPOND 02	4.89	
WASTEDUMP	28.07	
CRUSHER AREA	3.49	
SANITARY LANDFILL	6.61	
NURSERY	2.50	
STOCKYARD		
INSIDE MPSA	10.00	

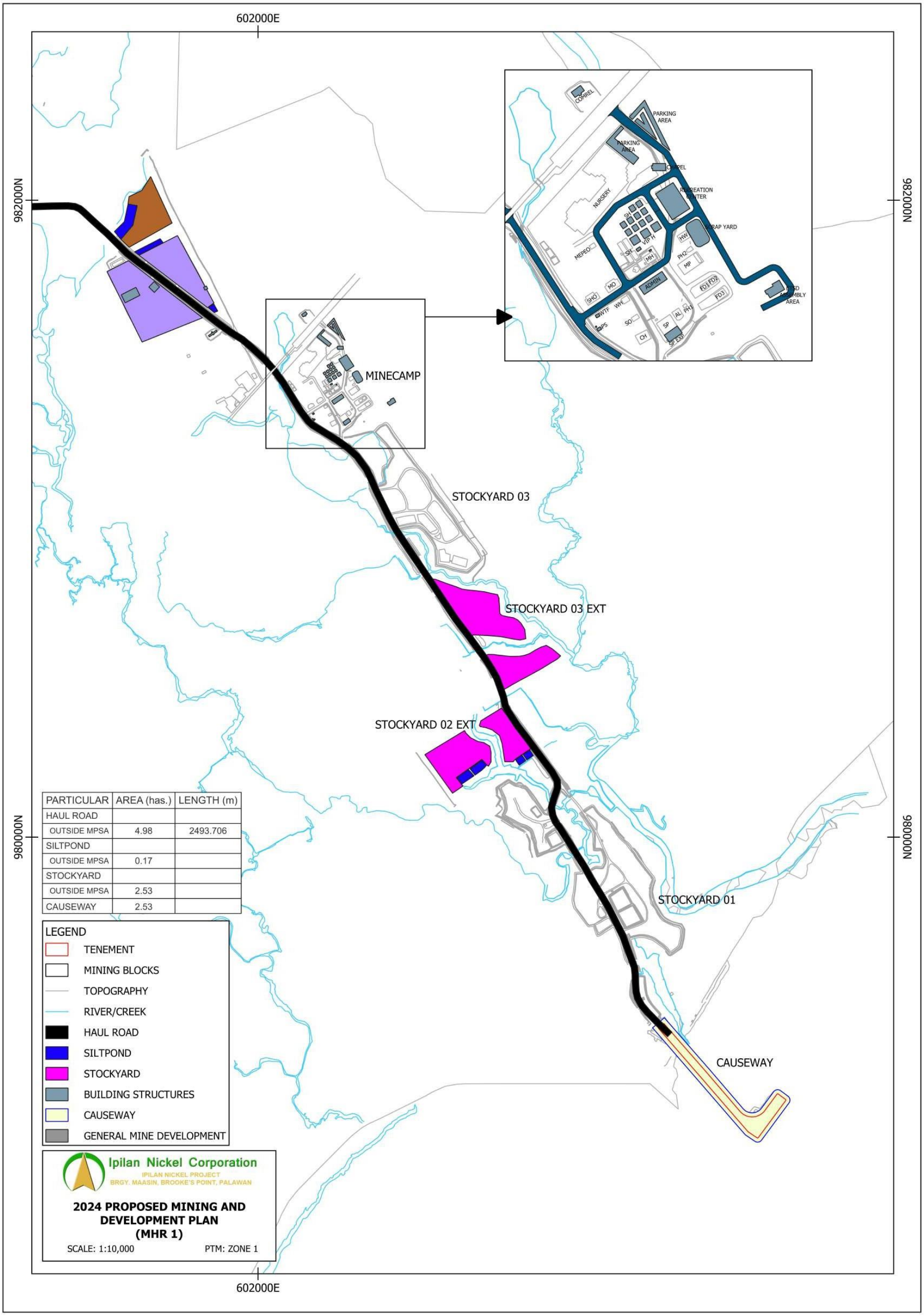
LEGEND
- TENEMENT
- MINING BLOCKS
- TOPOGRAPHY
- RIVER/CREEK
- MINING AREA
- HAUL ROAD
- SILTPOND
- STOCKYARD
- CONTRACTORS CAMP
- WASTEDUMP
- CRUSHER AREA
- NURSERY
- SANITARY LANDFILL
- GENERAL MINE DEVELOPMENT

Ipilan Nickel Corporation
IPILAN NICKEL PROJECT
BRGY. MAASIN, BROOKE'S POINT, PALAWAN

2024 PROPOSED MINING AND DEVELOPMENT PLAN (Inside Tenement)

SCALE: 1:10,000 PTM: ZONE 1


600000E
601000E
602000E
985000N
984000N
983000N
982000N
STOCKYARD 05
STOCKYARD 06
STOCKYARD 04
STOCKYARD 07
LOGDECK
CONTRACTORS CAMP
MINEBASE
PARTICULAR | AREA (has.) | LENGTH (m)
HAUL ROAD
OUTSIDE MPSA | 9.92 | 4958.242
SILTPOND
OUTSIDE MPSA | 3.13
STOCKYARD
OUTSIDE MPSA | 2.53
LOGDECK | 2.00
CONTRACTORS CAMP | 5.48
LEGEND
TENEMENT
MINING BLOCKS
TOPOGRAPHY
RIVER/CREEK
HAUL ROAD
SILTPOND
STOCKYARD
CONTRACTORS CAMP
LOGDECK
GENERAL MINE DEVELOPMENT
Ipilan Nickel Corporation
IPILAN NICKEL PROJECT
BRGY. MAASIN, BROOKE'S POINT, PALAWAN
2024 PROPOSED MINING AND DEVELOPMENT PLAN
(MHR 2)
SCALE: 1:10,000
PTM: ZONE 1


602000E
982000N
982000N
980000N
980000N
602000E
MINECAMP
STOCKYARD 03
STOCKYARD 03 EXT
STOCKYARD 02 EXT
STOCKYARD 01
CAUSEWAY
COMREL
PARKING AREA
PARKING AREA
CHAPEL
NURSERY
RECREATION CENTER
SH
SCRAP YARD
VIP H
HW
MEPEO
SH
MH1
PH2
MP
ADMIN
MO
SHO
FD1 FD2
FD3
WTF
WHL
SO
AL
PH
SP
SP END
CH
PS
PARTICULAR | AREA (has.) | LENGTH (m)
HAUL ROAD
OUTSIDE MPSA | 4.98 | 2493.706
SILTPOND
OUTSIDE MPSA | 0.17
STOCKYARD
OUTSIDE MPSA | 2.53
CAUSEWAY | 2.53
LEGEND
TENEMENT
MINING BLOCKS
TOPOGRAPHY
RIVER/CREEK
HAUL ROAD
SILTPOND
STOCKYARD
BUILDING STRUCTURES
CAUSEWAY
GENERAL MINE DEVELOPMENT
Ipilan Nickel Corporation
IPILAN NICKEL PROJECT
BRGY. MAASIN, BROOKE'S POINT, PALAWAN
2024 PROPOSED MINING AND DEVELOPMENT PLAN (MHR 1)
SCALE: 1:10,000
PTM: ZONE 1

MINING AREA

BLOCK 38

Point	Latitude	Longitude
1	8°55'52.163"	117°53'59.374"
2	8°55'50.275"	117°53'59.368"
3	8°55'50.254"	117°53'58.583"
4	8°55'45.893"	117°53'58.573"
5	8°55'42.98"	117°53'59.358"
6	8°55'41.32"	117°53'59.354"
7	8°55'41.345"	117°54'2.627"
8	8°55'42.972"	117°54'2.631"
9	8°55'42.974"	117°54'1.846"
10	8°55'44.602"	117°54'1.85"
11	8°55'44.604"	117°54'0.999"
12	8°55'47.045"	117°54'1.005"
13	8°55'47.043"	117°54'1.856"
14	8°55'47.856"	117°54'1.858"
15	8°55'48.246"	117°54'2.252"
16	8°55'48.245"	117°54'2.644"
17	8°55'47.429"	117°54'3.493"
18	8°55'47.428"	117°54'3.886"
19	8°55'47.037"	117°54'4.278"
20	8°55'47.033"	117°54'5.915"
21	8°55'47.813"	117°54'6.342"
22	8°55'49.05"	117°54'6.345"
23	8°55'49.056"	117°54'3.89"
24	8°55'48.665"	117°54'3.889"
25	8°55'48.669"	117°54'2.253"
26	8°55'49.06"	117°54'2.254"
27	8°55'49.484"	117°54'1.862"

BLOCK 40

Point	Latitude	Longitude
1	8°55'30.89"	117°54'7.285"
2	8°55'31.024"	117°54'7.057"
3	8°55'30.399"	117°54'6.676"
4	8°55'29.973"	117°54'6.555"
5	8°55'26.739"	117°54'5.556"
6	8°55'25.585"	117°54'3.702"
7	8°55'26.593"	117°54'2.415"
8	8°55'26.809"	117°54'2.358"
9	8°55'27.531"	117°54'2.688"
10	8°55'28.354"	117°54'2.649"
11	8°55'28.731"	117°54'2.002"
12	8°55'28.712"	117°54'1.259"
13	8°55'28.862"	117°54'0.691"
14	8°55'28.662"	117°53'59.985"
15	8°55'29.303"	117°53'58.999"
16	8°55'30.078"	117°53'59.223"
17	8°55'31.389"	117°53'59.452"
18	8°55'31.19"	117°54'1.459"

BLOCK 41

Point	Latitude	Longitude
1	8°55'37.05"	117°54'7.203"
2	8°55'37.61"	117°54'11.855"
3	8°55'37.717"	117°54'12.106"
4	8°55'37.413"	117°54'12.612"
5	8°55'34.346"	117°54'13.265"
6	8°55'33.757"	117°54'13.75"
7	8°55'33.021"	117°54'15.136"
8	8°55'33.004"	117°54'15.726"
9	8°55'32.877"	117°54'16.036"
10	8°55'32.656"	117°54'16.913"
11	8°55'32.037"	117°54'17.292"
12	8°55'31.243"	117°54'17.621"
13	8°55'30.804"	117°54'17.645"
14	8°55'29.88"	117°54'17.349"
15	8°55'29.394"	117°54'16.965"
16	8°55'28.702"	117°54'17.088"
17	8°55'28.351"	117°54'17.235"
18	8°55'28.127"	117°54'17.691"
19	8°55'27.978"	117°54'17.94"
20	8°55'27.747"	117°54'18.033"
21	8°55'26.287"	117°54'17.274"
22	8°55'26.2"	117°54'17.041"
23	8°55'26.447"	117°54'16.63"
24	8°55'26.251"	117°54'16.018"
25	8°55'26.031"	117°54'15.723"
26	8°55'25.666"	117°54'15.842"
27	8°55'25.196"	117°54'15.874"
28	8°55'24.932"	117°54'16.174"
29	8°55'24.643"	117°54'16.36"
30	8°55'24.497"	117°54'16.396"
31	8°55'23.657"	117°54'16.382"
32	8°55'22.996"	117°54'15.257"
33	8°55'23.064"	117°54'14.877"
34	8°55'22.698"	117°54'14.444"
35	8°55'22.456"	117°54'14.29"
36	8°55'22.373"	117°54'14.22"
37	8°55'22.12"	117°54'13.655"
38	8°55'21.425"	117°54'13.139"
39	8°55'21.293"	117°54'12.593"
40	8°55'21.398"	117°54'12.172"
41	8°55'21.786"	117°54'11.557"
42	8°55'22.48"	117°54'10.7"
43	8°55'23.404"	117°54'10.62"
44	8°55'24.659"	117°54'9.923"
45	8°55'25.692"	117°54'9.777"
46	8°55'26.572"	117°54'9.07"
47	8°55'27.617"	117°54'8.566"
48	8°55'28.22"	117°54'7.282"
49	8°55'28.456"	117°54'7.123"
50	8°55'34.325"	117°54'7.151"

BLOCK 34

Point	Latitude	Longitude
1	8°55'36.235"	117°53'57.313"
2	8°55'40.934"	117°53'57.324"
3	8°55'40.958"	117°53'47.505"
4	8°55'35.095"	117°53'47.491"
5	8°55'35.183"	117°53'47.634"
6	8°55'35.357"	117°53'47.756"
7	8°55'35.614"	117°53'47.827"
8	8°55'35.738"	117°53'48.003"
9	8°55'35.782"	117°53'48.343"
10	8°55'35.663"	117°53'48.766"
11	8°55'35.309"	117°53'50.095"
12	8°55'35.36"	117°53'50.596"
13	8°55'35.662"	117°53'51.226"
14	8°55'35.853"	117°53'51.898"
15	8°55'35.789"	117°53'52.401"
16	8°55'35.835"	117°53'53.331"
17	8°55'36.305"	117°53'53.834"
18	8°55'36.544"	117°53'53.896"
19	8°55'37.453"	117°53'54.136"
20	8°55'37.466"	117°53'54.796"
21	8°55'37.414"	117°53'55.657"
22	8°55'37.421"	117°53'56.063"
23	8°55'37.611"	117°53'56.622"
24	8°55'36.88"	117°53'56.96"
25	8°55'36.535"	117°53'57.121"

BLOCK 35

Point	Latitude	Longitude
1	8°55'53.391"	117°53'49.197"
2	8°55'53.925"	117°53'57.348"
3	8°55'44.138"	117°53'57.324"
4	8°55'43.87"	117°53'47.505"
5	8°55'48.122"	117°53'47.522"
6	8°55'48.201"	117°53'47.76"
7	8°55'49.633"	117°53'48.323"
8	8°55'50.014"	117°53'48.635"
9	8°55'50.306"	117°53'48.955"

BLOCK 39

Point	Latitude	Longitude
1	8°55'33.864"	117°54'6.707"
2	8°55'34.389"	117°54'5.521"
3	8°55'34.385"	117°54'3.25"
4	8°55'34.102"	117°54'1.459"
5	8°55'31.25"	117°54'0.818"
6	8°55'31.389"	117°53'59.452"
7	8°55'31.936"	117°53'59.009"
8	8°55'32.75"	117°53'58.689"
9	8°55'33.442"	117°53'58.162"
10	8°55'33.82"	117°53'57.949"
11	8°55'34.064"	117°53'57.91"
12	8°55'34.393"	117°53'57.79"
13	8°55'35.341"	117°53'57.809"
14	8°55'36.202"	117°53'57.332"
15	8°55'40.836"	117°53'57.333"
16	8°55'40.922"	117°53'57.533"
17	8°55'40.885"	117°54'7.093"
18	8°55'31.189"	117°54'7.078"

REHAB AREA

BLOCK 38

Point	Latitude	Longitude
1	8°55'53.348"	117°54'7.167"
2	8°55'44.137"	117°54'7.143"
3	8°55'44.138"	117°53'57.324"
4	8°55'53.61"	117°53'57.348"
5	8°55'52.163"	117°53'59.374"
6	8°55'50.275"	117°53'59.368"
7	8°55'50.254"	117°53'58.583"
8	8°55'45.893"	117°53'58.573"
9	8°55'42.98"	117°53'59.358"
10	8°55'41.32"	117°53'59.354"
11	8°55'41.345"	117°54'2.627"
12	8°55'42.972"	117°54'2.631"
13	8°55'42.974"	117°54'1.846"
14	8°55'44.602"	117°54'1.85"
15	8°55'44.604"	117°54'0.999"
16	8°55'47.045"	117°54'1.005"
17	8°55'47.043"	117°54'1.856"
18	8°55'47.856"	117°54'1.858"
19	8°55'48.246"	117°54'2.252"
20	8°55'48.245"	117°54'2.644"
21	8°55'47.429"	117°54'3.493"
22	8°55'47.428"	117°54'3.886"
23	8°55'47.037"	117°54'4.278"
24	8°55'47.033"	117°54'5.915"
25	8°55'47.813"	117°54'6.342"
26	8°55'49.05"	117°54'6.345"
27	8°55'49.056"	117°54'3.89"
28	8°55'48.665"	117°54'3.889"
29	8°55'48.669"	117°54'2.253"
30	8°55'49.06"	117°54'2.254"
31	8°55'49.484"	117°54'1.862"

BLOCK 40

Point	Latitude	Longitude
1	8°55'30.89"	117°54'7.285"
2	8°55'31.024"	117°54'7.057"
3	8°55'30.399"	117°54'6.676"
4	8°55'29.973"	117°54'6.555"
5	8°55'26.739"	117°54'5.556"
6	8°55'25.585"	117°54'3.702"
7	8°55'26.593"	117°54'2.415"
8	8°55'26.809"	117°54'2.358"
9	8°55'27.531"	117°54'2.688"
10	8°55'28.354"	117°54'2.649"
11	8°55'28.731"	117°54'2.002"
12	8°55'28.712"	117°54'1.259"
13	8°55'28.862"	117°54'0.691"
14	8°55'28.662"	117°53'59.985"
15	8°55'29.303"	117°53'58.999"
16	8°55'30.078"	117°53'59.223"
17	8°55'31.389"	117°53'59.452"
18	8°55'31.19"	117°54'1.459"

Ipilan Nickel Corporation
IPILAN NICKEL PROJECT
BRGY. MAASIN, BROOKE'S POINT, PALAWAN

2024 Proposed Mining and Development Structures Technical Description

SILTPONDS

BLOCK 41 SILTPOND

Point	Latitude	Longitude
1	8°55'21.441"	117°54'23.27"
2	8°55'22.248"	117°54'24.797"
3	8°55'23.825"	117°54'27.066"
4	8°55'24.171"	117°54'27.075"
5	8°55'21.782"	117°54'26.799"
6	8°55'22.107"	117°54'26.401"
7	8°55'22.351"	117°54'25.769"
8	8°55'21.26"	117°54'23.392"
9	8°55'20.984"	117°54'23.041"
10	8°55'20.416"	117°54'22.742"
11	8°55'20.109"	117°54'22.73"
12	8°55'19.498"	117°54'22.842"

BLOCK 40 SILTPOND

Point	Latitude	Longitude
1	8°55'29.579"	117°54'2.649"
2	8°55'30.026"	117°54'2.828"
3	8°55'29.344"	117°54'3.505"
4	8°55'28.377"	117°54'4.18"
5	8°55'25.107"	117°54'4.375"
6	8°55'24.871"	117°54'4.527"
7	8°55'24.675"	117°54'4.532"
8	8°55'24.491"	117°54'4.458"
9	8°55'24.322"	117°54'4.323"
10	8°55'24.415"	117°54'3.758"
11	8°55'24.684"	117°54'3.182"

BLOCK 34 SILTPOND

Point	Latitude	Longitude
1	8°55'39.313"	117°53'55.999"
2	8°55'40.46"	117°53'55.912"
3	8°55'40.935"	117°53'55.711"
4	8°55'41.275"	117°53'55.429"
5	8°55'39.225"	117°53'55.187"
6	8°55'39.702"	117°53'55.622"
7	8°55'40.017"	117°53'56.46"
8	8°55'39.78"	117°53'57.242"
9	8°55'38.617"	117°53'57.307"
10	8°55'37.702"	117°53'57.258"
11	8°55'37.105"	117°53'57.253"
12	8°55'36.53"	117°53'56.425"

BLOCK 39 SILTPOND

Point	Latitude	Longitude
1	8°55'32.742"	117°53'56.566"
2	8°55'33.647"	117°53'56.692"
3	8°55'34.775"	117°53'57.43"
4	8°55'35.111"	117°53'58.058"
5	8°55'31.994"	117°53'58.391"
6	8°55'31.39"	117°53'58.795"
7	8°55'30.741"	117°53'59.096"
8	8°55'30.063"	117°53'59.209"
9	8°55'29.688"	117°53'59.062"
10	8°55'29.23"	117°53'58.227"
11	8°55'29.096"	117°53'57.312"
12	8°55'29.474"	117°53'56.728"

CRUSHER SILTPOND

Point	Latitude	Longitude
1	8°55'9.028"	117°54'28.926"
2	8°55'9.608"	117°54'25.366"
3	8°55'8.023"	117°54'25.355"
4	8°55'7.705"	117°54'28.915"

LOGDECK SILTPOND

Point	Latitude	Longitude
1	8°52'50.496"	117°55'24.989"
2	8°52'49.249"	117°55'24.602"
3	8°52'48.218"	117°55'23.582"
4	8°52'47.128"	117°55'24.243"
5	8°52'45.646"	117°55'25.482"
6	8°52'47.654"	117°55'25.933"

BLOCK 35 SILTPOND

Point	Latitude	Longitude
1	8°55'56.485"	117°53'55.912"
2	8°55'56.789"	117°53'56.996"
3	8°55'57.061"	117°53'58.006"
4	8°55'56.789"	117°53'58.276"
5	8°55'53.591"	117°53'58.508"
6	8°55'53.239"	117°53'58.82"
7	8°55'52.994"	117°53'59"
8	8°55'52.683"	117°53'57.903"
9	8°55'52.351"	117°53'57.151"
10	8°55'51.328"	117°53'56.602"
11	8°55'51.109"	117°53'55.858"
12	8°55'51.001"	117°53'55.092"
13	8°55'50.541"	117°53'54.703"
14	8°55'49.76"	117°53'54.355"
15	8°55'49.189"	117°53'54.169"
16	8°55'49.166"	117°53'52.574"
17	8°55'49.473"	117°53'52.096"
18	8°55'50.115"	117°53'51.615"
19	8°55'50.491"	117°53'51.83"
20	8°55'51.168"	117°53'52.492"
21	8°55'51.578"	117°53'52.994"
22	8°55'52.308"	117°53'54.074"
23	8°55'52.96"	117°53'54.698"
24	8°55'53.329"	117°53'55.002"
25	8°55'53.617"	117°53'55.504"
Point	Latitude	Longitude
1	8°55'56.294"	117°53'56.985"
2	8°55'57.1"	117°53'55.938"
3	8°55'57.396"	117°53'55.749"
4	8°55'57.441"	117°53'55.787"
5	8°55'55.063"	117°53'55.961"
6	8°55'55.297"	117°53'56.661"
7	8°55'55.352"	117°53'57.167"
8	8°55'55.347"	117°53'57.444"
9	8°55'55.115"	117°53'57.485"
10	8°55'54.527"	117°53'57.934"
11	8°55'53.937"	117°53'58.217"
12	8°55'53.903"	117°53'57.961"
13	8°55'53.81"	117°53'57.578"

SILTPOND 2

Point	Latitude	Longitude
1	8°55'39.646"	117°54'25.989"
2	8°55'40.581"	117°54'24.405"
3	8°55'40.647"	117°54'24.31"
4	8°55'40.894"	117°54'21.705"
5	8°55'38.058"	117°54'21.628"
6	8°55'38.35"	117°54'20.948"
7	8°55'38.553"	117°54'20.323"
8	8°55'38.561"	117°54'20.26"
9	8°55'38.654"	117°54'20.054"
10	8°55'38.871"	117°54'19.927"
11	8°55'38.763"	117°54'19.518"
12	8°55'38.77"	117°54'19.3"
13	8°55'38.515"	117°54'18.353"
14	8°55'38.349"	117°54'18.032"
15	8°55'38.311"	117°54'17.581"
16	8°55'37.839"	117°54'15.824"
17	8°55'36.997"	117°54'15.834"
18	8°55'36.682"	117°54'15.874"
19	8°55'35.785"	117°54'15.813"
20	8°55'35.938"	117°54'17.004"
21	8°55'36.395"	117°54'19.37"
22	8°55'35.81"	117°54'21.101"
23	8°55'35.821"	117°54'21.191"
24	8°55'34.493"	117°54'23.664"
25	8°55'34.546"	117°54'23.794"
26	8°55'34.242"	117°54'25.469"
27	8°55'33.849"	117°54'26.551"
28	8°55'36.866"	117°54'27.103"

MEGAPOND 1

Point	Latitude	Longitude
1	8°55'40.484"	117°54'28.591"
2	8°55'42.652"	117°54'29.722"
3	8°55'44.454"	117°54'30.33"
4	8°55'45.406"	117°54'30.18"
5	8°55'44.458"	117°54'29.704"
6	8°55'46.011"	117°54'29.827"
7	8°55'46.082"	117°54'31.538"
8	8°55'44.493"	117°54'33.445"
9	8°55'43.588"	117°54'35.357"
10	8°55'41.869"	117°54'37.849"
11	8°55'40.942"	117°54'40.393"
12	8°55'39.093"	117°54'42.069"
13	8°55'37.239"	117°54'43.962"
14	8°55'36.175"	117°54'45.429"
15	8°55'33.42"	117°54'45.162"
16	8°55'31.89"	117°54'44.585"
17	8°55'32.113"	117°54'43.715"
18	8°55'33.952"	117°54'41.41"
19	8°55'35.074"	117°54'39.724"
20	8°55'36.197"	117°54'37.112"
21	8°55'37.014"	117°54'34.595"
22	8°55'37.458"	117°54'33.098"
23	8°55'37.656"	117°54'31.598"
24	8°55'37.814"	117°54'30.159"

MEGAPOND 2

Point	Latitude	Longitude
1	8°54'39.935"	117°54'23.66"
2	8°54'50.349"	117°54'23.686"
3	8°54'50.328"	117°54'28.998"
4	8°54'47.92"	117°54'28.998"
5	8°54'37.262"	117°54'28.902"

WASTEDUMP A1 SILTPOND

Point	Latitude	Longitude
1	8°55'34.317"	117°54'43.001"
2	8°55'32.074"	117°54'42.381"
3	8°55'30.937"	117°54'41.255"
4	8°55'27.551"	117°54'39.722"
5	8°55'22.663"	117°54'38.022"
6	8°55'22.215"	117°54'40.182"
7	8°55'23.96"	117°54'41.691"
8	8°55'26.949"	117°54'43.16"
9	8°55'28.274"	117°54'44.159"
10	8°55'31.264"	117°54'44.908"

WASTEDUMP A2 SILTPOND

Point	Latitude	Longitude
1	8°55'10.288"	117°54'36.041"
2	8°55'9.424"	117°54'40.27"
3	8°55'9.635"	117°54'43.731"
4	8°55'9.996"	117°54'46.409"
5	8°55'5.489"	117°54'46.593"
6	8°55'4.813"	117°54'44.037"
7	8°55'4.658"	117°54'40.122"
8	8°55'6.277"	117°54'34.708"

NURSERY SILTPOND

Point	Latitude	Longitude
1	8°54'47.435"	117°54'3.342"
2	8°54'48.849"	117°54'4.476"
3	8°54'49.318"	117°54'5.222"
4	8°54'49.316"	117°54'6.23"
5	8°54'46.261"	117°54'7.673"
6	8°54'46.556"	117°54'9.955"
7	8°54'44.324"	117°54'10.07"
8	8°54'43.994"	117°54'7.976"
9	8°54'44.052"	117°54'6.508"
10	8°54'43.644"	117°54'5.867"
11	8°54'43.195"	117°54'4.932"

STOCKYARD 6 SILTPOND

Point	Latitude	Longitude
1	8°53'5.999"	117°54'53.366"
2	8°53'6.879"	117°54'52.438"
3	8°53'6.486"	117°54'52.554"
4	8°53'5.857"	117°54'53.499"
Point	Latitude	Longitude
1	8°53'6.599"	117°54'55.015"
2	8°53'6.484"	117°54'53.519"
3	8°53'6.079"	117°54'53.661"
4	8°53'6.467"	117°54'55.183"
Point	Latitude	Longitude
1	8°53'7.171"	117°54'56.285"
2	8°53'7.207"	117°54'55.134"
3	8°53'6.814"	117°54'55.302"
4	8°53'7.083"	117°54'56.549"

STOCKYARD 7 SILTPOND

Point	Latitude	Longitude
1	8°52'51.967"	117°55'11.601"
2	8°52'52.627"	117°55'11.839"
3	8°52'52.607"	117°55'11.845"
4	8°52'51.854"	117°55'12.175"
Point	Latitude	Longitude
1	8°52'51.399"	117°55'12.008"
2	8°52'52.062"	117°55'12.253"
3	8°52'51.58"	117°55'12.582"
4	8°52'51.179"	117°55'12.338"
Point	Latitude	Longitude
1	8°52'49.208"	117°55'13.585"
2	8°52'50.34"	117°55'13.479"
3	8°52'50.307"	117°55'12.984"
4	8°52'49.174"	117°55'13.136"
Point	Latitude	Longitude
1	8°52'48.361"	117°55'14.727"
2	8°52'49.678"	117°55'13.697"
3	8°52'49.383"	117°55'13.247"
4	8°52'48.327"	117°55'14.275"
Point	Latitude	Longitude
1	8°52'48.002"	117°55'14.172"
2	8°52'47.917"	117°55'13.185"
3	8°52'48.186"	117°55'12.791"
4	8°52'48.532"	117°55'13.778"

STOCKYARD 2 EXT SILTPOND

Point	Latitude	Longitude
1	8°51'51.972"	117°56'0.418"
2	8°51'51.703"	117°55'59.179"
3	8°51'52.317"	117°55'58.666"
4	8°51'52.862"	117°55'59.837"
Point	Latitude	Longitude
1	8°51'53.061"	117°56'1.721"
2	8°51'53.359"	117°56'1.504"
3	8°51'53.024"	117°56'1.155"
4	8°51'52.284"	117°56'0.528"
5	8°51'50.003"	117°56'0.014"
6	8°51'50.893"	117°56'1.256"
Point	Latitude	Longitude
1	8°51'53.618"	117°56'4.681"
2	8°51'54.627"	117°56'5.361"
3	8°51'54.037"	117°56'5.744"
4	8°51'53.29"	117°56'5.064"
Point	Latitude	Longitude
1	8°51'54.144"	117°56'5.47"
2	8°51'55.152"	117°56'6.149"
3	8°51'54.562"	117°56'6.532"
4	8°51'53.815"	117°56'5.853"

Ipilan Nickel Corporation
IPILAN NICKEL PROJECT
BRGY. MAASIN, BROOKE'S POINT, PALAWAN

2024 Proposed Mining and Development Structures Technical Description

HAUL ROADS

MHR 02 ROAD

Point	Latitude	Longitude
1	8°55'23.275"	117°54'28.26"
2	8°55'19.266"	117°54'29.007"
3	8°55'13.462"	117°54'29.363"
4	8°55'6.643"	117°54'29.77"
5	8°54'37.099"	117°54'29.841"
6	8°54'36.18"	117°54'29.963"
7	8°54'35.758"	117°54'30.077"
8	8°54'30.86"	117°54'33.643"
9	8°54'27.584"	117°54'36.728"
10	8°54'23.124"	117°54'38.237"
11	8°54'22.611"	117°54'38.276"
12	8°54'18.823"	117°54'37.045"
13	8°54'18.454"	117°54'36.965"
14	8°54'17.926"	117°54'36.991"
15	8°54'11.015"	117°54'38.1"
16	8°54'9.695"	117°54'38.956"
17	8°54'6.621"	117°54'41.299"
18	8°54'5.573"	117°54'41.95"
19	8°54'4.601"	117°54'42.392"
20	8°54'3.776"	117°54'42.705"
21	8°54'2.113"	117°54'43.215"
22	8°53'54.731"	117°54'45.868"
23	8°53'54.287"	117°54'45.924"
24	8°53'53.793"	117°54'45.923"
25	8°53'53.262"	117°54'45.783"
26	8°53'44.459"	117°54'42.566"
27	8°53'43.484"	117°54'42.229"
28	8°53'42.828"	117°54'42.082"
29	8°53'41.938"	117°54'41.925"
30	8°53'41.098"	117°54'41.866"
31	8°53'40.253"	117°54'41.845"
32	8°53'39.22"	117°54'41.892"
33	8°53'30.985"	117°54'42.719"
34	8°53'30.241"	117°54'42.687"
35	8°53'29.455"	117°54'42.39"
36	8°53'28.673"	117°54'42.158"
37	8°53'28.02"	117°54'42.267"
38	8°53'23.889"	117°54'44.153"
39	8°53'20.164"	117°54'47.053"
40	8°53'18.592"	117°54'48.781"
41	8°53'16.503"	117°54'50.869"
42	8°53'15.971"	117°54'51.477"
43	8°53'15.444"	117°54'51.865"
44	8°53'14.961"	117°54'51.938"
45	8°53'9.457"	117°54'51.783"
46	8°53'9.247"	117°54'51.865"
47	8°53'9.04"	117°54'52.077"
48	8°53'8.358"	117°54'53.032"
49	8°53'7.585"	117°54'54.101"
50	8°53'6.77"	117°54'55.092"
51	8°53'6.011"	117°54'55.896"
52	8°53'0.259"	117°55'0.806"
53	8°52'59.936"	117°55'1.288"
54	8°52'59.354"	117°55'2.299"
55	8°52'58.001"	117°55'3.962"
56	8°52'57.355"	117°55'4.452"
57	8°52'56.571"	117°55'4.774"
58	8°52'55.215"	117°55'4.997"
59	8°52'54.316"	117°55'5"
60	8°52'53.079"	117°55'4.615"
61	8°52'52.495"	117°55'4.692"
62	8°52'51.852"	117°55'4.935"
63	8°52'48.511"	117°55'6.141"
64	8°52'48.07"	117°55'6.408"
65	8°52'47.861"	117°55'6.658"
66	8°52'47.636"	117°55'7.261"
67	8°52'47.458"	117°55'8.039"
68	8°52'47.871"	117°55'13.729"
69	8°52'47.891"	117°55'19.592"
70	8°52'47.633"	117°55'20.188"
71	8°52'47.277"	117°55'20.621"
72	8°52'43.016"	117°55'25.097"
73	8°52'42.107"	117°55'26.258"
74	8°52'41.235"	117°55'27.485"
75	8°52'34.987"	117°55'35.644"
76	8°52'34.202"	117°55'36.911"
77	8°52'33.369"	117°55'37.883"
78	8°52'32.066"	117°55'39.29"
79	8°52'31.146"	117°55'40.098"
80	8°52'30.718"	117°55'39.605"
81	8°52'31.612"	117°55'38.82"
82	8°52'32.884"	117°55'37.446"
83	8°52'33.676"	117°55'36.522"
84	8°52'34.447"	117°55'35.279"
85	8°52'40.713"	117°55'27.094"
86	8°52'41.586"	117°55'25.865"
87	8°52'42.527"	117°55'24.664"
88	8°52'46.789"	117°55'20.187"
89	8°52'47.073"	117°55'19.842"
90	8°52'47.255"	117°55'19.422"
91	8°52'47.221"	117°55'13.765"
92	8°52'46.805"	117°55'7.974"
93	8°52'47.011"	117°55'7.071"
94	8°52'47.291"	117°55'6.323"
95	8°52'47.641"	117°55'5.904"
96	8°52'48.208"	117°55'5.56"
97	8°52'51.646"	117°55'4.314"
98	8°52'52.335"	117°55'4.053"
99	8°52'53.121"	117°55'3.949"
100	8°52'54.421"	117°55'4.345"
101	8°52'55.161"	117°55'4.342"
102	8°52'56.394"	117°55'4.14"
103	8°52'57.03"	117°55'3.878"
104	8°52'57.556"	117°55'3.479"
105	8°52'58.813"	117°55'1.932"
106	8°52'59.384"	117°55'0.941"
107	8°52'59.762"	117°55'0.376"
108	8°53'5.55"	117°54'55.434"
109	8°53'6.283"	117°54'54.657"
110	8°53'7.07"	117°54'53.7"
111	8°53'7.83"	117°54'52.648"
112	8°53'8.54"	117°54'51.655"
113	8°53'8.88"	117°54'51.306"
114	8°53'9.339"	117°54'51.127"
115	8°53'14.909"	117°54'51.284"
116	8°53'15.189"	117°54'51.242"
117	8°53'15.529"	117°54'50.991"
118	8°53'16.023"	117°54'50.426"
119	8°53'18.121"	117°54'48.329"
120	8°53'19.722"	117°54'46.572"
121	8°53'23.548"	117°54'43.591"
122	8°53'27.869"	117°54'41.629"
123	8°53'28.714"	117°54'41.488"
124	8°53'29.662"	117°54'41.769"
125	8°53'30.372"	117°54'42.037"
126	8°53'30.963"	117°54'42.063"
127	8°53'39.169"	117°54'41.239"
128	8°53'40.247"	117°54'41.19"
129	8°53'41.129"	117°54'41.212"
130	8°53'42.017"	117°54'41.275"
131	8°53'42.955"	117°54'41.44"
132	8°53'43.661"	117°54'41.598"
133	8°53'44.68"	117°54'41.951"
134	8°53'53.445"	117°54'45.155"
135	8°53'53.877"	117°54'45.268"
136	8°53'54.247"	117°54'45.269"
137	8°53'54.585"	117°54'45.227"
138	8°54'1.906"	117°54'42.594"
139	8°54'3.566"	117°54'42.085"
140	8°54'7.026"	117°54'41.787"
141	8°54'8.495"	117°54'41.371"
142	8°54'9.458"	117°54'40.76"
143	8°54'12.237"	117°54'38.418"
144	8°54'10.75"	117°54'37.493"
145	8°54'17.855"	117°54'36.339"
146	8°54'18.507"	117°54'36.307"
147	8°54'18.996"	117°54'36.413"
148	8°54'22.672"	117°54'37.615"
149	8°54'22.992"	117°54'37.59"
150	8°54'27.289"	117°54'36.136"
151	8°54'30.437"	117°54'33.144"
152	8°54'35.451"	117°54'29.482"
153	8°54'36.052"	117°54'29.32"
154	8°54'37.068"	117°54'29.185"
155	8°55'3.697"	117°54'29.116"
156	8°55'10.225"	117°54'28.709"
157	8°55'15.977"	117°54'28.354"
158	8°55'20.327"	117°54'27.667"

NURSERY ROAD

Point	Latitude	Longitude
1	8°54'55.824"	117°54'29.106"
2	8°54'58.867"	117°54'22.376"
3	8°54'58.831"	117°54'19.663"
4	8°54'57.108"	117°54'17.215"
5	8°54'53.302"	117°54'16.449"
6	8°54'51.365"	117°54'15.28"
7	8°54'49.22"	117°54'13.557"
8	8°54'47.362"	117°54'11.71"
9	8°54'46.288"	117°54'10.14"
10	8°54'46.824"	117°54'9.769"
11	8°54'47.863"	117°54'11.288"
12	8°54'49.653"	117°54'13.068"
13	8°54'51.737"	117°54'14.741"
14	8°54'53.683"	117°54'15.916"
15	8°54'54.701"	117°54'16.789"
16	8°54'56.276"	117°54'19.484"
17	8°54'56.291"	117°54'22.493"
18	8°54'53.761"	117°54'29.334"

MINEPIT ROAD

Point	Latitude	Longitude
1	8°55'23"	117°54'27.667"
2	8°55'28.853"	117°54'25.185"
3	8°55'31.138"	117°54'24.367"
4	8°55'32.86"	117°54'23.402"
5	8°55'32.742"	117°54'21.082"
6	8°55'34.54"	117°54'19.877"
7	8°55'34.972"	117°54'19.236"
8	8°55'35.163"	117°54'18.459"
9	8°55'35.177"	117°54'13.728"
10	8°55'35.463"	117°54'12.845"
11	8°55'35.705"	117°54'12.545"
12	8°55'36.051"	117°54'12.419"
13	8°55'36.312"	117°54'12.413"
14	8°55'36.649"	117°54'12.573"
15	8°55'37.512"	117°54'13.415"
16	8°55'38.085"	117°54'13.789"
17	8°55'38.471"	117°54'13.884"
18	8°55'39.932"	117°54'13.791"
19	8°55'40.266"	117°54'13.615"
20	8°55'41.86"	117°54'12.334"
21	8°55'42.466"	117°54'12.171"
22	8°55'42.864"	117°54'12.18"
23	8°55'43.244"	117°54'12.291"
24	8°55'44.18"	117°54'12.778"
25	8°55'43.853"	117°54'12.003"
26	8°55'43.757"	117°54'11.303"
27	8°55'43.969"	117°54'9.495"
28	8°55'44.236"	117°54'8.765"
29	8°55'45.529"	117°54'7.278"
30	8°55'45.776"	117°54'6.799"
31	8°55'46.431"	117°54'3.652"
32	8°55'46.367"	117°54'3.16"
33	8°55'45.845"	117°54'2.162"
34	8°55'45.277"	117°54'1.485"
35	8°55'44.155"	117°54'0.708"
36	8°55'43.433"	117°54'0.574"
37	8°55'41.971"	117°54'0.787"
38	8°55'38.756"	117°54'1.806"
39	8°55'37.49"	117°54'2.474"
40	8°55'36.334"	117°54'3.56"
41	8°55'35.015"	117°54'5.651"
42	8°55'33.8"	117°54'8.787"
43	8°55'33.141"	117°54'12.075"
44	8°55'32.882"	117°54'12.764"
45	8°55'31.839"	117°54'14.296"
46	8°55'33.233"	117°54'13.045"
47	8°55'34.244"	117°54'11.569"
48	8°55'35.058"	117°54'10.756"
49	8°55'35.629"	117°54'10.639"
50	8°55'36.389"	117°54'10.929"
51	8°55'37.102"	117°54'11.823"
52	8°55'37.263"	117°54'13.15"
53	8°55'36.653"	117°54'12.567"
54	8°55'36.531"	117°54'12.509"
55	8°55'36.478"	117°54'12.087"
56	8°55'35.992"	117°54'11.477"
57	8°55'35.575"	117°54'11.318"
58	8°55'35.342"	117°54'11.366"
59	8°55'34.774"	117°54'11.95"
60	8°55'33.697"	117°54'13.504"
61	8°55'32.152"	117°54'14.932"
62	8°55'32.139"	117°54'15.201"
63	8°55'32.105"	117°54'15.347"
64	8°55'31.942"	117°54'15.61"
65	8°55'31.625"	117°54'15.622"
66	8°55'31.336"	117°54'15.499"
67	8°55'31.035"	117°54'15.213"
68	8°55'30.881"	117°54'14.775"
69	8°55'30.93"	117°54'14.548"
70	8°55'32.293"	117°54'12.484"
71	8°55'32.516"	117°54'11.889"
72	8°55'33.18"	117°54'8.585"
73	8°55'34.425"	117°54'5.371"
74	8°55'35.858"	117°54'3.111"
75	8°55'37.11"	117°54'1.935"
76	8°55'38.491"	117°54'1.207"
77	8°55'41.821"	117°54'0.15"
78	8°55'43.456"	117°53'59.913"
79	8°55'44.376"	117°54'0.083"
80	8°55'45.729"	117°54'1.009"
81	8°55'46.374"	117°54'1.777"
82	8°55'46.999"	117°54'2.974"
83	8°55'47.086"	117°54'3.636"
84	8°55'46.378"	117°54'7.054"
85	8°55'46.085"	117°54'7.622"
86	8°55'44.804"	117°54'9.092"
87	8°55'44.602"	117°54'9.655"
88	8°55'44.408"	117°54'11.288"
89	8°55'44.531"	117°54'11.962"
90	8°55'44.862"	117°54'12.747"
91	8°55'44.904"	117°54'13.107"
92	8°55'44.643"	117°54'13.484"
93	8°55'44.173"	117°54'13.463"
94	8°55'43.023"	117°54'12.908"
95	8°55'42.765"	117°54'12.832"
96	8°55'42.384"	117°54'12.854"
97	8°55'42.117"	117°54'12.938"
98	8°55'40.653"	117°54'14.143"
99	8°55'40.146"	117°54'14.413"
100	8°55'38.394"	117°54'14.535"
101	8°55'37.839"	117°54'14.396"
102	8°55'37.219"	117°54'14.034"
103	8°55'36.172"	117°54'13.071"
104	8°55'36.172"	117°54'13.071"
105	8°55'36.019"	117°54'13.195"
106	8°55'35.82"	117°54'13.832"
107	8°55'35.811"	117°54'18.531"
108	8°55'35.573"	117°54'19.493"
109	8°55'35.013"	117°54'20.329"
110	8°55'33.114"	117°54'21.619"
111	8°55'30.3"	117°54'23.954"
112	8°55'28.154"	117°54'24.983"
113	8°55'25.877"	117°54'25.79"
114	8°55'20.602"	117°54'28.26"

Ipilan Nickel Corporation
IPILAN NICKEL PROJECT
BRGY. MAASIN, BROOKE'S POINT, PALAWAN

2024 Proposed Mining and Development Structures Technical Description

WASTEDUMP A1		
Point	Latitude	Longitude
1	8°55'39.653"	117°54'27.861"
2	8°55'40.282"	117°54'29.306"
3	8°55'40.055"	117°54'31.472"
4	8°55'39.533"	117°54'33.239"
5	8°55'35.933"	117°54'35.239"
6	8°55'34.58"	117°54'38.871"
7	8°55'33.329"	117°54'40.98"
8	8°55'31.635"	117°54'42.854"
9	8°55'28.854"	117°54'42.21"
10	8°55'27.845"	117°54'41.133"
11	8°55'24.904"	117°54'39.673"
12	8°55'22.796"	117°54'37.9"
13	8°55'23.03"	117°54'36.27"
14	8°55'23.557"	117°54'33.093"
15	8°55'24.996"	117°54'28.948"
16	8°55'25.285"	117°54'28.212"
17	8°55'26.79"	117°54'27.694"
18	8°55'29.223"	117°54'27.19"
19	8°55'30.273"	117°54'27.091"
20	8°55'31.93"	117°54'26.985"

WASTEDUMP A2		
Point	Latitude	Longitude
1	8°55'23.086"	117°54'38.518"
2	8°55'22.273"	117°54'40.407"
3	8°55'20.387"	117°54'44.131"
4	8°55'16.5"	117°54'45.567"
5	8°55'10.64"	117°54'46.273"
6	8°55'7.274"	117°54'46.387"
7	8°55'6.553"	117°54'43.711"
8	8°55'6.319"	117°54'40.336"
9	8°55'7.297"	117°54'37.44"
10	8°55'7.744"	117°54'36.142"
11	8°55'9.12"	117°54'35.426"
12	8°55'11.621"	117°54'35.115"
13	8°55'14.289"	117°54'35.523"
14	8°55'16.315"	117°54'35.538"
15	8°55'17.19"	117°54'35.188"
16	8°55'18.732"	117°54'34.535"
17	8°55'19.9"	117°54'34.051"
18	8°55'22.09"	117°54'33.707"
19	8°55'22.244"	117°54'33.87"
20	8°55'21.784"	117°54'35.352"
21	8°55'21.281"	117°54'36.974"

CRUSHER		
Point	Latitude	Longitude
1	8°55'9.515"	117°54'22.896"
2	8°55'11.786"	117°54'22.324"
3	8°55'12.633"	117°54'22.11"
4	8°55'13.257"	117°54'22.734"
5	8°55'10.534"	117°54'22.934"
6	8°55'11.199"	117°54'23.76"
7	8°55'11.764"	117°54'24.493"
8	8°55'12.127"	117°54'25.558"
9	8°55'12.301"	117°54'26.083"
10	8°55'13.532"	117°54'28.279"
11	8°55'11.869"	117°54'28.336"
12	8°55'11.792"	117°54'28.611"
13	8°55'9.345"	117°54'28.738"
14	8°55'6.518"	117°54'28.592"
15	8°55'6.526"	117°54'25.172"
16	8°55'5.903"	117°54'25.147"
17	8°55'5.586"	117°54'25.35"
18	8°55'4.727"	117°54'25.177"
19	8°55'4.745"	117°54'23.656"
20	8°55'5.668"	117°54'23.366"

SANITARY LANDFILL		
Point	Latitude	Longitude
1	8°54'59.279"	117°54'19.032"
2	8°54'59.354"	117°54'18.179"
3	8°54'58.499"	117°54'16.411"
4	8°54'56.729"	117°54'15.349"
5	8°54'51.79"	117°54'14.253"
6	8°54'49.51"	117°54'12.345"
7	8°54'47.959"	117°54'10.673"
8	8°54'47.609"	117°54'10.232"
9	8°54'50.832"	117°54'8.648"
10	8°54'54.563"	117°54'9.966"
11	8°54'57.351"	117°54'12.147"
12	8°54'58.503"	117°54'14.35"
13	8°54'58.943"	117°54'15.741"
14	8°54'59.561"	117°54'15.946"
15	8°55'1.514"	117°54'16.067"
16	8°55'2.832"	117°54'16.951"
17	8°55'1.219"	117°54'19.917"
18	8°54'58.461"	117°54'20.34"

NURSERY		
Point	Latitude	Longitude
1	8°54'49.589"	117°53'59.12"
2	8°54'51.819"	117°54'1.195"
3	8°54'52.731"	117°54'5.126"
4	8°54'53.348"	117°54'7.935"
5	8°54'50.66"	117°54'8.337"
6	8°54'47.346"	117°54'9.902"
7	8°54'47.027"	117°54'7.68"
8	8°54'47.165"	117°54'6"
9	8°54'46.803"	117°54'4.818"
10	8°54'45.908"	117°54'3.647"
11	8°54'45.412"	117°54'2.683"
12	8°54'45.006"	117°54'0.898"
13	8°54'44.179"	117°53'59.731"
14	8°54'44.045"	117°53'57.989"

LOGDECK		
Point	Latitude	Longitude
1	8°52'46.08"	117°55'25.081"
2	8°52'47.443"	117°55'24.243"
3	8°52'48.855"	117°55'25.482"
4	8°52'50.569"	117°55'25.933"
5	8°52'47.82"	117°55'24.989"
6	8°52'48.579"	117°55'25.094"
7	8°52'49.204"	117°55'26.409"
8	8°52'50.616"	117°55'27.323"
9	8°52'45.87"	117°55'29.516"

STOCKYARD 06		
Point	Latitude	Longitude
1	8°53'7.329"	117°54'56.318"
2	8°53'6.627"	117°54'53.519"
3	8°53'7.073"	117°54'52.212"
4	8°53'8.058"	117°54'51.786"
5	8°53'5.958"	117°54'51.82"
6	8°53'6.967"	117°54'52.06"
7	8°53'7.789"	117°54'52.086"
8	8°53'7.745"	117°54'52.881"

STOCKYARD 07		
Point	Latitude	Longitude
1	8°52'50.754"	117°55'12.177"
2	8°52'51.129"	117°55'11.579"
3	8°52'50.609"	117°55'8.804"
4	8°52'50.429"	117°55'8.765"
5	8°52'49.284"	117°55'11.334"
Point	Latitude	Longitude
1	8°52'47.22"	117°55'13.204"
2	8°52'46.106"	117°55'10.632"
3	8°52'49.787"	117°55'8.643"
4	8°52'49.868"	117°55'9.759"
5	8°52'47.183"	117°55'11.863"
6	8°52'47.22"	117°55'12.701"
7	8°52'47.29"	117°55'12.808"
8	8°52'47.109"	117°55'12.877"

STOCKYARD 02 EXT		
Point	Latitude	Longitude
1	8°51'52.948"	117°56'1.901"
2	8°51'53.946"	117°56'2.173"
3	8°51'54.907"	117°56'2.176"
4	8°51'55.229"	117°56'2.053"
5	8°51'52.683"	117°56'1.436"
6	8°51'52.807"	117°56'0.818"
7	8°51'53.183"	117°56'0.078"
8	8°51'53.676"	117°55'59.584"
9	8°51'53.922"	117°55'59.461"
10	8°51'51.468"	117°55'55.37"
11	8°51'47.521"	117°55'58.209"
12	8°51'48.254"	117°55'59.285"
13	8°51'49.113"	117°55'58.595"
14	8°51'50.964"	117°56'1.233"
Point	Latitude	Longitude
1	8°51'54.742"	117°56'6.278"
2	8°51'59.439"	117°56'3.265"
3	8°51'58.118"	117°56'1.129"
4	8°51'57.345"	117°56'0.985"
5	8°51'54.315"	117°56'1.079"
6	8°51'54.223"	117°56'1.623"
7	8°51'53.983"	117°56'2.289"
8	8°51'53.399"	117°56'3.045"
9	8°51'52.566"	117°56'3.314"
10	8°51'50.725"	117°56'3.582"
11	8°51'50.72"	117°56'4.461"
12	8°51'50.964"	117°56'4.643"

STOCKYARD		
Point	Latitude	Longitude
1	8°54'37.789"	117°54'23.188"
2	8°54'38.265"	117°54'18.856"
3	8°54'38.145"	117°54'18.856"
4	8°54'37.868"	117°54'12.74"
5	8°54'35.053"	117°54'12.74"
6	8°54'35.22"	117°54'12.394"
7	8°54'35.318"	117°54'12.019"
8	8°54'35.481"	117°54'12.02"
9	8°54'35.579"	117°54'11.699"
10	8°54'35.801"	117°54'11.702"
11	8°54'36.488"	117°54'11.711"
12	8°54'36.907"	117°54'11.85"
13	8°54'37.313"	117°54'12.18"
14	8°54'37.731"	117°54'12.71"
15	8°54'38.049"	117°54'13.106"
16	8°54'38.822"	117°54'13.779"
17	8°54'39.324"	117°54'14.039"
18	8°54'42.215"	117°54'14.726"
19	8°54'45.992"	117°54'17.079"
20	8°54'45.992"	117°54'17.079"
21	8°54'46.174"	117°54'17.039"
22	8°54'49.813"	117°54'19.676"
23	8°54'49.758"	117°54'19.757"
24	8°54'52.36"	117°54'21.316"
25	8°54'52.646"	117°54'21.304"
26	8°54'52.86"	117°54'21.443"
27	8°54'54.519"	117°54'22.175"
28	8°54'54.183"	117°54'23.305"
29	8°54'46.904"	117°54'23.439"
30	8°54'47.022"	117°54'23.269"
31	8°54'44.418"	117°54'23.284"
32	8°54'44.162"	117°54'23.241"

Ipilan Nickel Corporation
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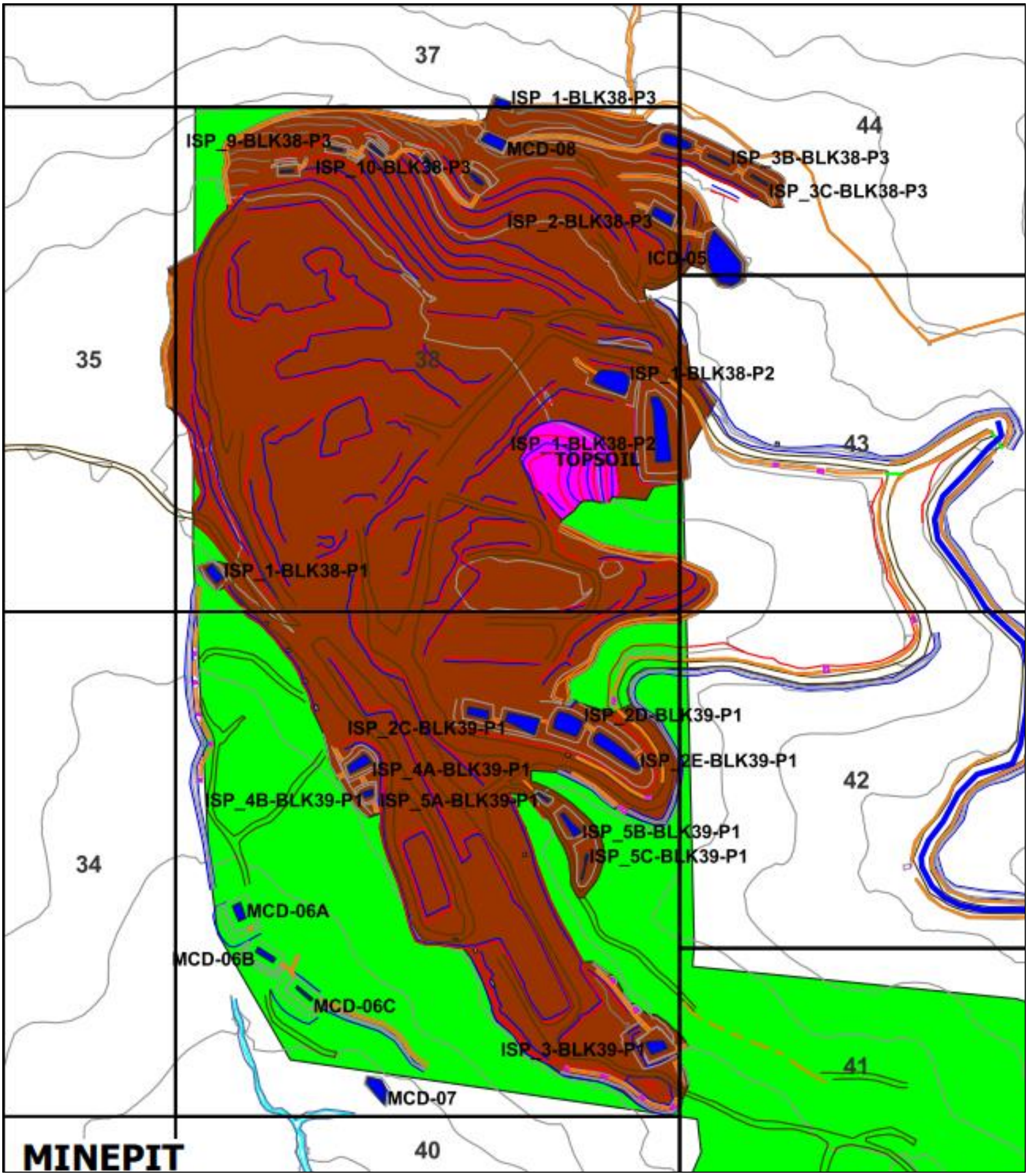
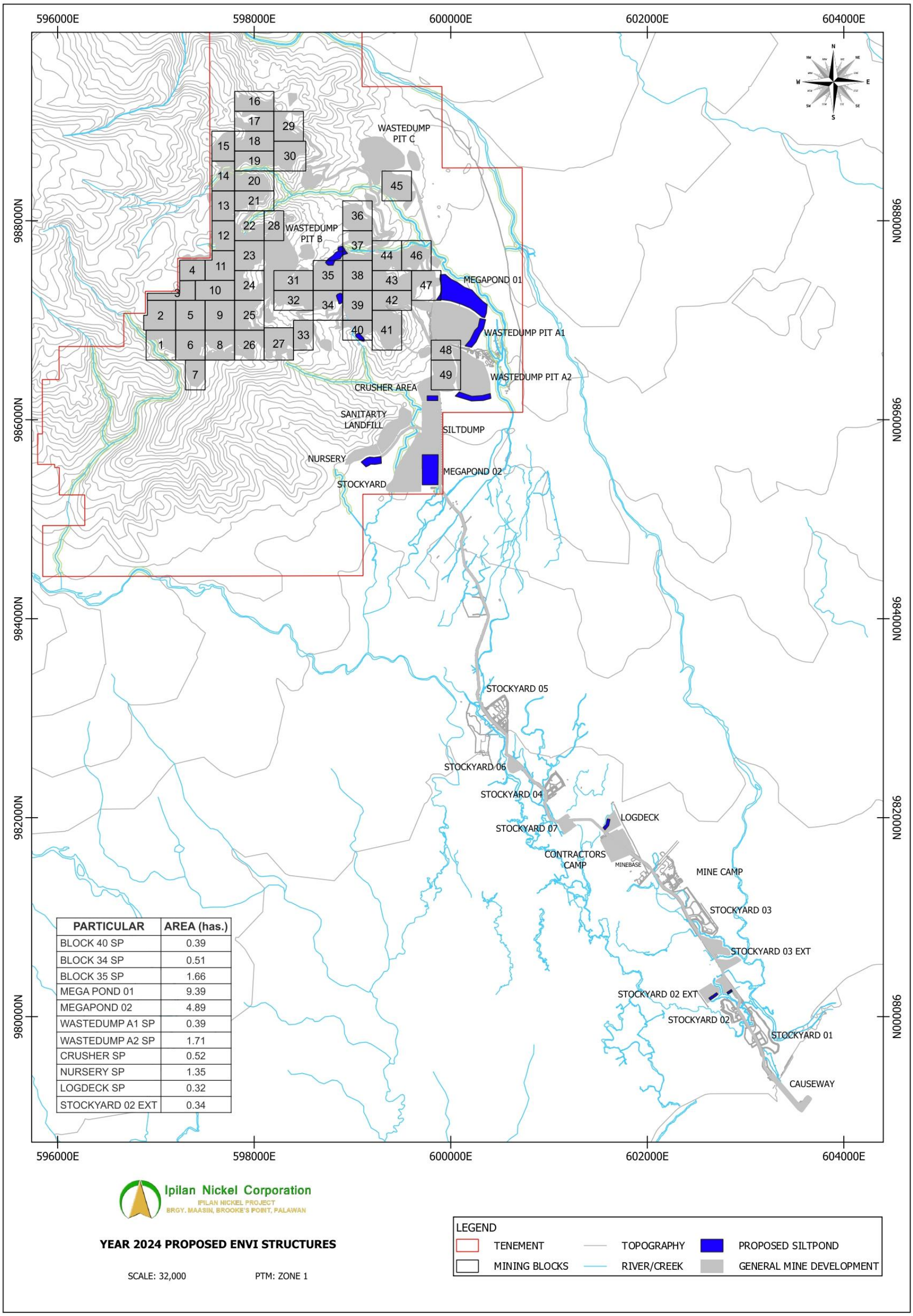
BRGY. MAASIN, BROOKE'S POINT, PALAWAN

2024 Proposed Mining and Development Structures Technical Description

ANNEX 5: TOPSOIL TEMPORARY STOCKYARD


37
ISP_1-BLK38-P3
44
ISP_9-BLK38-P3
MCD-08
ISP_10-BLK38-P3
ISP_3B-BLK38-P3
ISP_3C-BLK38-P3
ISP_2-BLK38-P3
ICD-05
35
38
ISP_1-BLK38-P2
ISP_1-BLK38-P2
TOPSOIL
43
ISP_1-BLK38-P1
ISP_2D-BLK39-P1
ISP_2C-BLK39-P1
ISP_2E-BLK39-P1
ISP_4A-BLK39-P1
42
ISP_4B-BLK39-P1
ISP_5A-BLK39-P1
ISP_5B-BLK39-P1
ISP_5C-BLK39-P1
34
MCD-06A
MCD-06B
MCD-06C
ISP_3-BLK39-P1
41
MCD-07
MINEPIT
40

ANNEX 6: PROPOSED ENVIRONMENTAL STRUCTURES TO BE CONSTRUCTED FOR 2024



PARTICULAR	AREA (has.)
BLOCK 40 SP	0.39
BLOCK 34 SP	0.51
BLOCK 35 SP	1.66
MEGA POND 01	9.39
MEGAPOND 02	4.89
WASTEDUMP A1 SP	0.39
WASTEDUMP A2 SP	1.71
CRUSHER SP	0.52
NURSERY SP	1.35
LOGDECK SP	0.32
STOCKYARD 02 EXT	0.34

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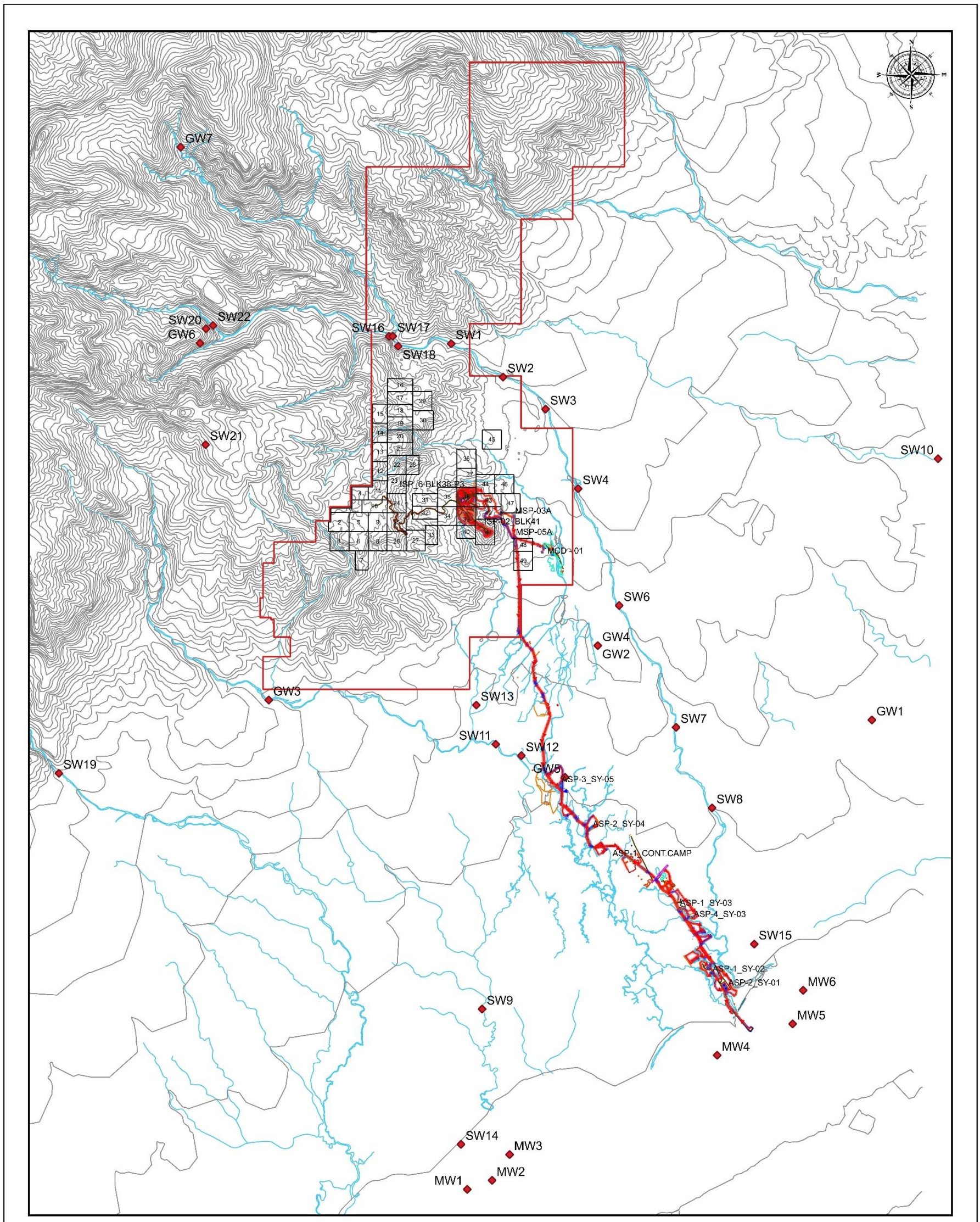
YEAR 2024 PROPOSED ENVI STRUCTURES

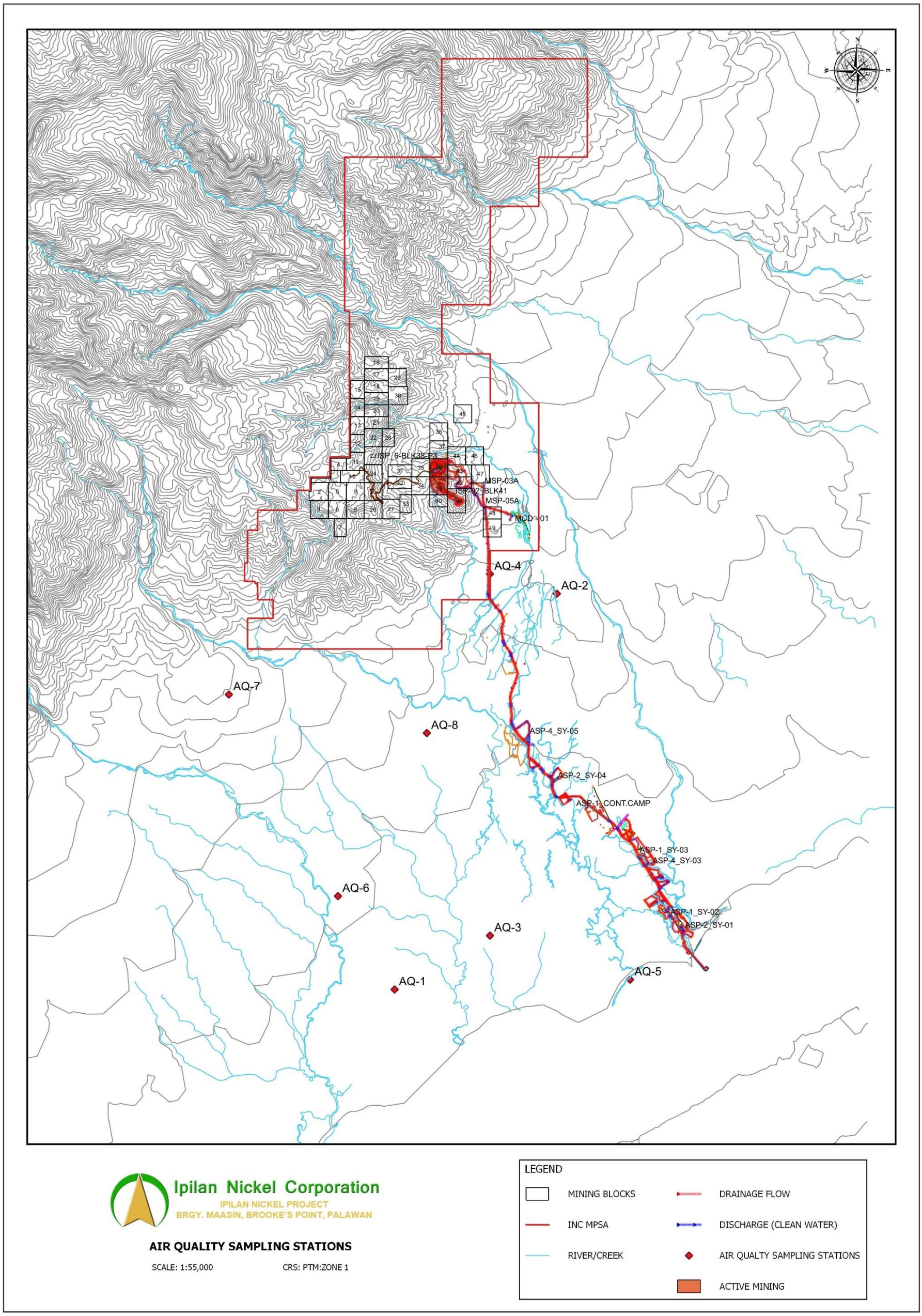
SCALE: 32,000 PTM: ZONE 1

LEGEND
TENEMENT
MINING BLOCKS
TOPOGRAPHY
RIVER/CREEK
PROPOSED SILTPOND
GENERAL MINE DEVELOPMENT

ANNEX 7: INC'S WATER SAMPLING STATIONS


GW7
SW20
GW6
SW22
SW16
SW17
SW18
SW1
SW2
SW3
SW21
SW10
SW4
ISP_6-BLK38-P3
MSP-03A
ISP-02_BLK41
MSP-05A
MCD - 01
SW6
GW4
GW2
GW3
SW13
GW1
SW7
SW11
SW12
SW19
GW5
ASP-3_SY-05
SW8
ASP-2_SY-04
ASP-1_CONT.CAMP
ASP-1_SY-03
ASP-4_SY-03
SW15
ASP-1_SY-02
ASP-2_SY-01
MW6
SW9
MW5
MW4
SW14
MW3
MW2
MW1
Ipilan Nickel Corporation
IPILAN NICKEL PROJECT
BRGY. MAASIN, BROOKE'S POINT, PALAWAN
WATER SAMPLING STATIONS
SCALE: 1:55,000
CRS: PTM:ZONE 1
LEGEND
MINING BLOCKS
INC MPSA
RIVER/CREEK
DRAINAGE FLOW
DISCHARGE (CLEAN WATER)
WATER SAMPLING STATIONS
ACTIVE MINING

ANNEX 8: INC'S AIR AND NOISE SAMPLING STATION


N
E
S
W
ISP_6-BLK38-P3
MSP-03A
ISP-02_BLK41
MSP-05A
MCD-01
AQ-4
AQ-2
AQ-7
AQ-8
ASP-4_SY-05
ASP-2_SY-04
ASP-1_CONT.CAMP
ASP-1_SY-03
ASP-4_SY-03
AQ-6
ASP-1_SY-02
ASP-2_SY-01
AQ-3
AQ-5
AQ-1
Ipilan Nickel Corporation
IPILAN NICKEL PROJECT
BRGY. MAASIN, BROOKE'S POINT, PALAWAN
AIR QUALITY SAMPLING STATIONS
SCALE: 1:55,000
CRS: PTM:ZONE 1
LEGEND
MINING BLOCKS
INC MPSA
RIVER/CREEK
DRAINAGE FLOW
DISCHARGE (CLEAN WATER)
AIR QUALTY SAMPLING STATIONS
ACTIVE MINING