

OMNIBUS SWORN STATEMENT OF COMMITMENT OF THE PROPONENT

By the authority vested in me by the Helix Mining and Development Corporation, as President, I hereby commit to perform avoidance, mitigation, rehabilitation, and compensatory activities for the environmental impact caused by the Limestone Mining Project.

I hereby bind myself to answer any penalty that may be imposed arising from any misrepresentation or failure to abide and conform to pertinent provisions of applicable Philippine environmental laws.

In witness whereof, I hereby set my hand this 08 FEB 2023 day of _____ at PARANAQUE CITY.


RENATO A. BAJA
Affiant

SUBSCRIBED AND SWORN TO before me this 08 FEB 2023 day of _____, 202____, affiant exhibiting his/her Passport ID/License ID/Community Tax Certificate No. P0325151A issued at DFA, Manila on 07 March 2018.

Doc No. 883
Page No. 55
Book No. 8
Series of 2023

ATTY. CARLOS M. CARLOS
NOTARY PUBLIC - PARANAQUE CITY
COMM. NO. 242 - UNTIL DEC. 31, 2023
ROLL NO. 43869
IBP NO. 03068 - LIFETIME MEMBER
PTR NO. 3128923 - 7/03/23 PQUE CITY
MCLE VL 0024258 - 08/20/2020
UNIT 155, VALLEY 1, BRGY SAN ANTONIO
SUCAT, PARANAQUE CITY

ACCOUNTABILITY STATEMENT OF PROJECT PROPONENT

This is to certify that all information in the submitted **Project Monitoring and Audit Prioritization Scheme (PEMAPS) Questionnaire of Helix Mining and Development Corporation** located **at Maasim, Sarangani** is true, accurate and complete. Should I learn of any information, which makes this inaccurate, I shall bring said information to the appropriate Environmental Management Bureau Regional Office.


In witness whereof, I hereby set out my hands this 14 FEB 2023 day of 2023 at ANGONO, RIZAL.


MR. RENATO BAJA

Project Proponent

SUBSCRIBED AND SWORN to before me this 14 FEB 2023 day of _____ 2023 at ANGONO, RIZAL. Affiant exhibiting to me his/her Passport No. _____ issued on _____.

Doc. No. 449
Page No. 22
Book No. XVIII
Series of 2023


ATTY. JOEL B. DADULA, CPA
Notary Public
Until December 31, 2023
PTR No. 027756/ 03-08-2022
IBP LMR No. 017948/ O.R. #013272
Roll No. 59304
MCLE Comp. No. VII-0004880/04-14-2022
Angono, Rizal

ACCOUNTABILITY STATEMENT

This is to certify that all information and commitments in this Environmental Impact Statement (EIS) Report are accurate and complete. Should we learn of any information which would make this EIS inaccurate, I/We shall bring said information to the attention of this appropriate EMB-DENR Regional Office.

We hereby bind ourselves jointly and solidarity to any penalty that may be imposed arising from any misrepresentation of failure to state materials information in this EIS Report.

In witness whereof, I hereby set my hand this 14 FEB 2023, 2023 at
ANGONO, RIZAL.


RENATO A. BAJA


President – Helix Mining and Development Corporation
Proponent

ACKNOWLEDGEMENT

BEFORE ME this 14 FEB 2023, 2023 at ANGONO, RIZAL
personally appeared with Passport No. P6325151A issued on March 7, 2018 at DFA, Manila in his capacity as the Proponent and acknowledged to me that this EIS is his voluntary act and deed, and voluntary act and deed of the entity he/she represents. This document which consists of ___ pages, including the page of which this acknowledgement is an Environmental Impact Statement.

Witness my hand and seal on the place and date above written.

Doc. No. 450
Page No. 22
Book No. XVIII
Series of 2003.


ATTY. JOEL B. DADULA, CPA
Notary Public
Until December 31, 2023
PTR No. 027756/ 03-08-2022
IBP LMR No. 017948/ O.R. #013272
Roll No. 59304
MCLE Comp. No. VII-0004880/04-14-2022
Angono, Rizal

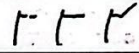

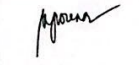
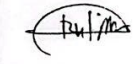

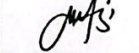
SWORN STATEMENT OF ACCOUNTABILITY OF PREPARERS

This is to certify that all information in this Environmental Impact Statement (EIS) for the **Limestone Mining Project** are accurate and complete to the best of our knowledge, and that an objective and thorough assessment of the Project was undertaken in accordance with the dictates of professional and reasonable judgement. Should we learn of any information which would make this **EIS Report** inaccurate, we shall immediately bring the said information to the attention of the DENR-EMB.

We hereby certify that no DENR-EMB personnel was directly involved in the preparation of this **Limestone Mining Project** other than to provide procedural and technical advice consistent with the guidelines in the DAO 03-30 Revised Procedural Manual.

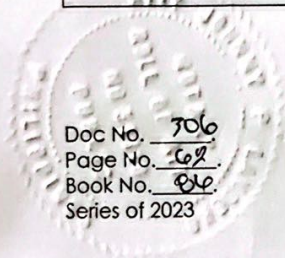
We hereby bind ourselves jointly and solidarity to answer any penalty that may be imposed arising from any misrepresentation or failure to state material information in this **EIS Report**.

In witness whereof, we hereby set our hands this 09 FEB 2023 day of SURABAYA, SOUTH COTABATO.

Name	Expertise	Signature
Silverio Magallon, Jr, Ph.D.	Project Leader/ Social Expert	
Carmelita P. Martinez, MSETM, PhD	Environmental Specialist, Water Quality	
Ana P. Ocenar, PhD	Biologist, Freshwater Ecology, Marine Biology	
For. Rosemarie Pidut	Forester, Terrestrial Flora and Fauna, Soil Quality	
Mark John S. Pag-alaman	Mining Engineer	
Engr. Ryan Taguiam	Air Quality	

SUBSCRIBE AND SWORN to before me this 09 FEB 2023 day of _____, 2022 at _____, affiants exhibiting their Passport/Community Tax Certificate/License Information as follows:

Name	Proof of Identification		
	Passport/CTC/License	Place of Issue	Date of Issue/Availability
Silverio V. Magallon, Jr.	M07-18-005821	Davao City	05/01/2018
Carmelita P. Martinez	LO6-96-048088	Davao City	07/16/2022
Ana P. Ocenar, PhD	CRN-006-0015-0674-3	Davao City	01/13/2017
For. Rosemarie Pidut	PRC-FOR- 0004728		12/24/2024
Mark John Pag-alaman	PRC-MELE-0003090	Davao City	09/17/2013
Mr. Ryan Taguiam	N25-11-004988	Caloocan City	




ATTY. P. LANDERO
 NOTARY PUBLIC
 UNTIL DECEMBER 31, 2023
 PRC NO. 4767-87-01-03-2023 FOR CITY
 IBPN NO. 115735-01/10/2020 GSC
 MCR Compliance No. N4-0030347
 Issued on February 3, 2020
 COLLEGE OF ATTORNEYS NO. 31310
 TIN: 180-668-825-000

ANNEX 2-21

PRO-FORMA SWORN STATEMENT OF ACCOUNTABILITY OF PROPONENT

SWORN STATEMENT OF ACCOUNTABILITY OF THE PROPONENT*

This is to certify that all the information and commitments in this Environmental Impact Study for the **HELIX MINING AND DEVELOPMENT CORPORATION** located Maasim, Sarangani Province are accurate and complete to the best of our knowledge, and that an objective and thorough assessment of the Project was undertaken in accordance with the dictates of professional and reasonable judgment. Should I/we learn of any information, which would make this EIS REPORT inaccurate, I shall immediately bring the said information to the attention of DENR-EMB.

I hereby certify that no DENR-EMB personnel was directly involved in the preparation of this EIS REPORT other than to provide procedural and technical advice consistent with the guidelines in the DAO 03-30 Revised Procedural Manual.

I hereby bind myself to answer any penalty that may be imposed arising from any misrepresentation or failure to state material information in this EIS REPORT.

In witness whereof, I hereby set my hand this 20 FEB 2023 day of _____ at **SURALLAH, SOUTH COTABATO**


RENATO A. BAZA

20 FEB 2023

SUBSCRIBED AND SWORN TO before me this _____ day of _____, 200____, affiant exhibiting his/her Community Tax Certificate No. _____ issued at **SURALLAH, SOUTH COTABATO** on _____.

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Page No. 10
Book No. 28
Series of 2023


ATTY. JOHNNY R. LANDERO
NOTARY PUBLIC
UNTIL DECEMBER 31, 2023
PTR NO. 4767687-01/03/2023 KOR. CITY
IBP NO. 115835-01/10/2020, GSC
MCLE Compliance No. VI-0030347
Issued on February 3, 2020
ROLL OF ATTORNEY NO. 31310,
TIN: 180-668-825-000



AMBIENT AIR QUALITY MONITORING SAMPLING REPORT SAMPLING RESULT

SAMPLING STATION **HELIX MINING AND DEVELOPMENT CORP.**

LOCATION _____

COORDINATES _____

- ☒ 24-HOUR DATA SAMPLE
☐ 1-HOUR DATA SAMPLE
☐ 30-MINUTE DATA SAMPLE

SAMPLE COLLECTION DATA

METEOROLOGICAL CONDITIONS

WIND ☒ CALM ☐ LIGHT ☐ GUSTY
VISIBILITY ☒ CLEAR ☐ HAZY
SKY ☐ CLEAR ☒ SCATTERED ☐ OVERCAST
HUMIDITY ☐ DRY ☒ MODERATE ☐ HUMID ☐ RAINY

SAMPLING CONDITIONS

- ☒ No unusual condition ☐ Sand/Dust
☐ Fire nearby ☐ Sampler Malfunction
☐ Construction Nearby ☐ Rain
☐ Farming operation ☐ Others

PARTICULATE MATTER			<input checked="" type="checkbox"/> PM 10	<input type="checkbox"/> PM 2.5						
SAMPLER: E-RAM PLUS-9800				CALIBRATION DATE: E-RAM 08/05/2022			CALIBRATION DATE: MET 31/08/2021			
RESULT OF SAMPLING										
STATION #	DATE	Geographical Coordinates	ConcRT (ug/m3)	ConcHR (ug/m3)	Flow (lpm)	WS (m/s)	WD (Deg)	AT (°C)	RH (%)	BP (mmHg)
Station 1	09/08/2022	5.885431, 125.076914	28	30	16.4	2.1	131	32.9	61	754
Station 2	09/09/2022	5.911911, 125.087711	15	18	16.6	2	129	33.4	59	753
Station 3	09/10/2022	5.931293, 125.093644	23	13	16.7	2.6	133	32.9	61	753
Station 4	09/11/2022	5.9241672, 125.06751	11	29	16.7	2.5	132	32.8	62	753

LOCATION		AVERAGE CONCENTRATION PARTICULATE MATTER (ug/Ncm)	CONCENTRATION STANDARDS (150 ug/Ncm)
Station 1	Barangay Hall Tinoto	28	Passed
Station 2	Pacman Beach Resort	15	Passed
Station 3	Lantew Resto and Beach Resort	23	Passed
Station 4	Mirabueno Ranch	11	Passed

REMARKS:	Result relates only as samples as collected
----------	---

Sampled by:

APRIL PATRICIA L. FONTANILLA
TSS, AAQMU

LEONARDO T. ROBLES III
EMS I, AAQMU

Reviewed by:

ENGR. ELMER R. SAMARANOS
Chief, AAQMU

Noted by:

ENGR. PHILIP GREGORY E. BIBOSO
Chief, AMTSS

Attested by:

ENGR. RONIE L. SALMON
Chief, EMED

Protect Life...! Protect the Environment...!
Kilos Abante Rehiyon Davao...!

Doc. No. : EXF-AIR-MON-FOR-03
Rev. No. : 01
Effectivity : JULY 15, 2019
Page : 1 of 1



MACH UNION LABORATORIES INC.

Main Office: Mach Union Building, 335 Alabang-Zapote Road, Talon 3, 1740 Las Pines City, Philippines
Extension Office: ANFRA Bldg., FMC-LTO Cmpd., 314 Alabang-Zapote Road, Talon 1, 1740 Las Pines City
Tel. No.: (02)8553-8382/ (02)8553-8386/ (02)8553-8875/ (02)8550-2576 Fax No.: (02) 8553-8878
Email: info@machunion.com • Website: www.machunion.com • <http://www.facebook.com/MachUnion>
Accredited: Philippine Accreditation Bureau (DTI-PAB) • Department of Health • Food & Drug Administration
Recognized: Department of Environment & Natural Resources (DENR-EMB) • Bureau of Animal Industry (DA-BAI)

CERTIFICATE OF ANALYSIS

Job Number : MU22026090 **Laboratory Number:** MU22026090-001 **Date Reported:** 09/19/2022
Client ID : R12SJO-00091
CUSTOMER : HELIX MINING AND DEVELOPMENT CORP.
Attention : Randy Rodriguez
09198004592
roynelysoriano@gmail.com
PROJECT DETAILS: HELIX MINING AND DEVELOPMENT CORP.
Brgy. Tinoto, Maasim, Sarangani

SAMPLE INFORMATION

Sample Type : Air Ambient **Storage Condition** : Ambient
Identification : HMDC AIR QUALITY MONITORING
Description : Air Ambient Sample in Filter Paper
Collection Date and Time : 09/08/2022 10:34 AM **Received Date and Time** : 09/13/2022 08:00 AM
Collected by : CUSTOMER **Analyzed Start Date and Time** : 09/14/2022 02:00 PM
Analyzed End Date and Time : 09/19/2022 09:15 AM

Comments:

1. All sample information stated herein are based on the details provided by the client. The results in this certificate of testing relates only to the samples submitted to and tested by the laboratory.

Attention is drawn to the terms and conditions for the testing printed over leaf



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Tel. No.: (02)8553-8381/ (02)8553-8382/ (02)8553-8879/ (02)8550-2573 Fax No.: (02) 8553-8878
Email: info@machunion.com • Website: www.machunion.com • <http://www.facebook.com/MachUnion>
Accredited: Philippine Accreditation Bureau (DTI-PAR) • Department of Health • Food & Drug Administration
Recognized: Department of Environment & Natural Resources (DENR-EMB) • Bureau of Animal Industry (DA—BAI)

CERTIFICATE OF ANALYSIS

Job Number: MU22026090

Laboratory Number: MU22026090-001

Date Reported: 09/19/2022

CUSTOMER : HELIX MINING AND DEVELOPMENT CORP.

Sample Source HMDC AIR QUALITY MONITORING

LABORATORY TEST RESULTS

SAMPLE ID	PARAMETER	TEST METHOD	UNIT	RESULT
A1 BRGY. HALL TINOTO (24HRS)	Arsenic	Electrothermal AAS	ug	0.65
A1 BRGY. HALL TINOTO (24HRS)	Cadmium	Flame AAS	ug	< 0.2
A1 BRGY. HALL TINOTO (24HRS)	Chromium	Flame AAS	ug	4.96
A1 BRGY. HALL TINOTO (24HRS)	Lead	Flame AAS	ug	3.70
A1 BRGY. HALL TINOTO (24HRS)	Mercury	Cold Vapor - AAS	ug	< 0.01

ORIGINAL COPY

Test Method Reference:

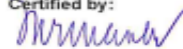
Compendium of Methods for the Determination of Inorganics Compound in Ambient Air. US EPA. 1999
Lodge, James P. Jr., Methods of Air Sampling and Analysis. ISC 3rd Edition.

Checked by:



Victor Gregory Jude O. Garcia, RCh
Chemist III
PRC#: 0015349

MU22026086_FINAL_220709 0848H

Certified by:


Marisa T. Manao, RCh
Supervising Chemist
PRC#: 0005465

Approved for Release by:


Aladino M. Abulencia, ChE
Technical Manager
PRC License No. 0008351

Page 2 of 2



MACH UNION LABORATORIES INC.

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Extension Office: ANFRA Bldg., FMC-LTO Cmpd., 314 Alabang-Zapote Road, Talon 1, 1740 Las Pifias City
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Email: info@machunion.com • Website: www.machunion.com • <http://www.facebook.com/MachUnion>
Accredited: Philippine Accreditation Bureau (DTI-PAB) • Department of Health • Food & Drug Administration
Recognized: Department of Environment & Natural Resources (DENR-EMB) • Bureau of Animal Industry (DA—BAI)

CERTIFICATE OF ANALYSIS

Job Number : MU22026091 **Laboratory Number:** MU22026090-002 **Date Reported:** 09/19/2022
Client ID : R12SJO-00091
CUSTOMER : HELIX MINING AND DEVELOPMENT CORP.
Attention : Randy Rodriguez
09198004592
roynelysorian@gmail.com
PROJECT DETAILS: HELIX MINING AND DEVELOPMENT CORP.
Brgy. Tinoto, Maasim, Sarangani

SAMPLE INFORMATION

Sample Type : Air Ambient **Storage Condition :** Ambient
Identification : HMDC AIR QUALITY MONITORING
Description : Air Ambient Sample in Filter Paper
Collection Date and Time : 09/09/2022 09:30 AM **Received Date and Time** 09/13/2022 08:00 AM
Collected by : CUSTOMER **Analyzed Start Date and Time** 09/14/2022 02:00 PM
Analyzed End Date and Time : 09/19/2022 09:15 AM

Comments:

1. All sample information stated herein are based on the details provided by the client. The results in this certificate of testing relates only to the samples submitted to and tested by the laboratory.



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Recognized: Department of Environment & Natural Resources (DENR-EMB) • Bureau of Animal Industry (DA—BAI)

CERTIFICATE OF ANALYSIS

Job Number: MU22026071

Laboratory Number: MU22026071-002

Date Reported: 09/19/2022

CUSTOMER : HELIX MINING AND DEVELOPMENT CORP.

Sample Source: HMDC AIR QUALITY MONITORING

LABORATORY TEST RESULTS				
SAMPLE ID	PARAMETER	TEST METHOD	UNIT	RESULT
A2 PACMAN BEACH RESORT (24HRS)	Arsenic	Electrothermal AAS	ug	0.29
A2 PACMAN BEACH RESORT (24HRS)	Cadmium	Flame AAS	ug	< 0.2
A2 PACMAN BEACH RESORT (24HRS)	Chromium	Flame AAS	ug	3.45
A2 PACMAN BEACH RESORT (24HRS)	Lead	Flame AAS	ug	2.41
A2 PACMAN BEACH RESORT (24HRS)	Mercury	Cold Vapor - AAS	ug	< 0.01

ORIGINAL COPY

Test Method Reference:

Compendium of Methods for the Determination of Inorganics Compound in Ambient Air. US EPA. 1999
Lodge, James P. Jr., Methods of Air Sampling and Analysis. ISC 3rd Edition.

Checked by:

Victor Gregory Jude D. Garcia, RCh
Chemist III
PRC#: 0013349

MU22026086_FINAL_220709 0848H

Certified by:

Marisa T. Manao, RCh
Supervising Chemist
PRC#: 0005465

Approved for Release by:

Aladino M. Abulencia, ChE
Technical Manager
PRC License No. 0008351

Page 2 of 2



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Accredited: Philippine Accreditation Bureau (DTI-PAB) • Department of Health • Food & Drug Administration
Recognized: Department of Environment & Natural Resources (DENR-EMB) • Bureau of Animal Industry (DA—BAI)

CERTIFICATE OF ANALYSIS

Job Number : MU22026092 **Laboratory Number:** MU22026090-003 **Date Reported:** 09/19/2022
Client ID : R12SJO-00091
CUSTOMER : HELIX MINING AND DEVELOPMENT CORP.
Attention : Randy Rodriguez
09198004592
roynelysoriano@gmail.com

PROJECT DETAILS: HELIX MINING AND DEVELOPMENT CORP.
Brgy. Tinoto, Maasim, Sarangani

SAMPLE INFORMATION

Sample Type :	Air Ambient	Storage Condition :	Ambient
Identification :	HMDc AIR QUALITY MONITORING		
Description :	Air Ambient Sample in Filter Paper		
Collection Date and Time :	09/10/2022 10:50 AM	Received Date and Time	09/13/2022 08:00 AM
Collected by :	CUSTOMER	Analyzed Start Date and Time	09/14/2022 02:00 PM
		Analyzed End Date and Time :	09/19/2022 09:15 AM

Comments:

1. All sample information stated herein are based on the details provided by the client. The results in this certificate of testing relates only to the samples submitted to and tested by the laboratory.



MACH UNION LABORATORIES INC.

Main Office: Mach Union Building, 335 Alabang-Zapote Road, Talon 3, 1740 Las Pifias City, Philippines
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Tel. No.: (02)8553-8381/ (02)8553-8382 / (02)8553-8879/ (02)8550-2573 Fax No.: (02) 8553-8878
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Accredited: Philippine Accreditation Bureau (DTI-PAB) • Department of Health • Food & Drug Administration
Recognized: Department of Environment & Natural Resources (DENR-EMB) • Bureau of Animal Industry (DA—BAI)

CERTIFICATE OF ANALYSIS

Job Number: MU22026072

Laboratory Number: MU22026071-003

Date Reported: 09/19/2022

CUSTOMER : HELIX MINING AND DEVELOPMENT CORP.

Sample Source: HMDC AIR QUALITY MONITORING

LABORATORY TEST RESULTS

SAMPLE ID	PARAMETER	TEST METHOD	UNIT	RESULT
A3 LANTEW RESORT (24HRS)	Arsenic	Electrothermal AAS	ug	0.36
A3 LANTEW RESORT (24HRS)	Cadmium	Flame AAS	ug	< 0.2
A3 LANTEW RESORT 24HRS)	Chromium	Flame AAS	ug	3.73
A3 LANTEW RESORT 24HRS)	Lead	Flame AAS	ug	2.39
A3 LANTEW RESORT (24HRS)	Mercury	Cold Vapor - AAS	ug	< 0.01

ORIGINAL COPY

Test Method Reference:

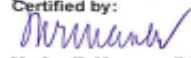
Compendium of Methods for the Determination of Inorganics Compound in Ambient Air. US EPA. 1999
Lodge, James P. Jr., Methods of Air Sampling and Analysis. ISC 3rd Edition.

Checked by:



Victor Gregory Jude D. Garcia, RCh
Chemist III
PRC#: 0018349

MU22026086_FINAL_220709 0848H

Certified by:


Marisa T. Manao, RCh
Supervising Chemist
PRC#: 0005465

Approved for Release by:


Aladino M. Abulencia, ChE
Technical Manager
PRC License No. 0008351

Page 2 of 2



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Accredited: Philippine Accreditation Bureau (DTI-PAB) • Department of Health • Food & Drug Administration
Recognized: Department of Environment & Natural Resources (DENR-EMB) • Bureau of Animal Industry (DA—BAI)

CERTIFICATE OF ANALYSIS

Job Number : MU22026093 **Laboratory Number:** MU22026090-004 **Date Reported:** 09/19/2022
Client ID : R12SJO-00091
CUSTOMER : HELIX MINING AND DEVELOPMENT CORP.
Attention : Randy Rodriguez
09198004592
roynelysoriano@gmail.com
PROJECT DETAILS: HELIX MINING AND DEVELOPMENT CORP.
Brgy. Tinoto, Maasim, Sarangani

SAMPLE INFORMATION

Sample Type :	Air Ambient	Storage Condition :	Ambient
Identification :	HMDc AIR QUALITY MONITORING		
Description :	Air Ambient Sample in Filter Paper		
Collection Date and Time :	09/11/2022 10:50 AM	Received Date and Time	09/13/2022 08:00 AM
Collected by :	CUSTOMER	Analyzed Start Date and Time	09/14/2022 02:00 PM
		Analyzed End Date and Time :	09/19/2022 09:15 AM

Comments:

1. All sample information stated herein are based on the details provided by the client. The results in this certificate of testing relates only to the samples submitted to and tested by the laboratory.



MAN UNION LABORATORIES INC.

Main Office: Mach Union Building, 335 Alabang-Zapote Road, Talon 3, 1740 Las Pines City, Philippines

Extension Office: ANFRA Bldg., FMC-LTO Cmpd., 314 Alabang-Zapote Road, Talon 1, 1740 Las Pines

City Tel. No.: (02)8553-8381/ (02)8553-8382 / (02)8553-8879/ (02)8550-2573 Fax No.: (02) 8553-8878

Email: info@machunion.com • Website: www.machunion.com • <http://www.facebook.com/MachUnion>

Accredited: Philippine Accreditation Bureau (DTI-PAB) • Department of Health • Food & Drug Administration Recognized:

Department of Environment & Natural Resources (DENR-EMB) • Bureau of Animal Industry (DA—BAI)

CERTIFICATE OF ANALYSIS

Job Number: MU22026073

Laboratory Number: MU22026071-004

Date Reported: 09/19/2022

CUSTOMER : HELIX MINING AND DEVELOPMENT CORP.

Sample Source: HMDc AIR QUALITY MONITORING

LABORATORY TEST RESULTS

SAMPLE ID	PARAMETER	TEST METHOD	UNIT	RESULT
A4 MIRABUENO RANCH (24HRS)	Arsenic	Electrothermal AAS	ug	1.0
A4 MIRABUENO RANCH (24HRS)	Cadmium	Flame AAS	ug	< 0.2
A4 MIRABUENO RANCH (24HRS)	Chromium	Flame AAS	ug	3.90
A4 MIRABUENO RANCH (24HRS)	Lead	Flame AAS	ug	2.80
A4 MIRABUENO RANCH (24HRS)	Mercury	Cold Vapor - AAS	ug	< 0.01

ORIGINAL COPY

Test Method Reference:

Compendium of Methods for the Determination of Inorganics Compound in Ambient Air. US EPA. 1999

Lodge, James P. Jr., Methods of Air Sampling and Analysis. ISC 3rd Edition.

Checked by:

Victor Gregory Jude D. Garcia, RCh
Chemist III
PRC#: 0013349

MU22026086_FINAL_220709 0848H

Certified by:

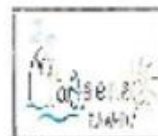
Marisa T. Manao, RCh
Supervising Chemist
PRC#: 0005465

Approved for Release by:

Aladino M. Abulencia, ChE
Technical Manager
PRC License No. 0008351



Republic of the Philippines
Province of Sarangani
MUNICIPAL PLANNING & DEVELOPMENT OFFICE
Municipality of Maasin



January 17, 2022

JOEL G. BADANG

Mining and Operations Manager
Holcim Mining & Development Corporation
Km. 21, Budbud, Bunawan, Davao City

Sir:

This has reference to your letter dated December 27, 2021 requesting this office for a zoning certification of a certain area of around 425.1146 hectares in barangay Tinoto, this municipality, for your proposed limestone extraction project which was already issued by our Zoning Officer though the area is zoned as parks and recreation zone while the nature or type of the project is mining/quarrying, thus, the project is non-confirming as to land use or zone.

Nonetheless, we will consider your area to be reclassified into mining/quarrying zone in the revision of our Comprehensive Land use Plan (CLUP) which is now ongoing and wish to be approved by the third quarter of this year.

Hope we have elucidated your good end on this matter.

Thank you and more power.

Very truly yours,

RONALD L. ORBITA, EnP
Municipal Planning & Development Coordinator



**Holcim
Mining &
Development
Corporation**

Environmental Impact Statement
HMDC Proposed Limestone Mining
Brgy. Tinoto, Municipality of Maasim, Sarangani Province



**Holcim
Mining &
Development
Corporation**

5th Floor, One Campus Place, Tower B
1080 Campus Avenue, McKinley Town Center
Fort Bonifacio, Taguig City, Philippines 1634

+63 02 4659 565
+63 02 4659 832

April 23, 2021

HON. ZYREX C. PACQUIAO
Local Chief Executive
Maasim, Sarangani Province

Thru:

LOCAL ZONING REVIEW COMMITTEE (LZRC)

Re: Reclassification of Land – From Parks and Recreational to Industrial
Identified Areas of Kamanga and Tinoto, Maasim, Sarangani Province

Dear Sir,

GREETINGS!

Our company Holcim Mining and Development Corporation (HMDC) has signified our intention to undertake Limestone Extraction Project to the Municipality of Maasim. The project was designated by the Mines and Geo-Sciences Bureau as MPSA 274-2008-XII Parcel 4 covering an area of 425.1146 hectares.

Currently, the whole area where the planned Limestone Extraction Project will be located is classified as Parks and Recreational Land. The area has not been cultivated for more than 20 years already and had been left idle and undeveloped since HMDC's presence. Premises considered, we are most respectfully requesting for a reclassification of mining claim areas of HMDC (maps and locations are attached) from "PARKS AND RECREATIONAL" to "INDUSTRIAL" land use.

The company had already obtained support from the two barangays (Kamanga and Tinoto) through their endorsements that interpose no objection to the project. The reclassification would enable HMDC to pursue its' ECC Application while getting the support of MAASIM MLGU Officials. It would also mean additional investment for Maasim in an adjunct to your impetus for the sustainable economic growth. HMDC aims to support the growth by providing quality business partnerships at par with country's best

Your favourable accommodation of our request will be most appreciated. Thank you very much.

Respectfully yours,

ENGR. JOEL G. BADANG
Mining Operations Manager

Received by:

[Signature]
C.B. Mantua
9-1-2021



Republic of the Philippines
OFFICE OF THE PRESIDENT
NATIONAL COMMISSION ON INDIGENOUS PEOPLES
Regional Office XII

Jayven Bldg., Gansan Drive, Corner Posadas St., Koronadal City, South Cotabato

CERTIFICATE OF NON-OVERLAP

THIS IS TO CERTIFY that the proposed site of the project entitled **LIMESTONE EXTRACTION OF HOLCIM MINING AND DEVELOPMENT CORPORATION** does not affect/overlap any ancestral domain of Indigenous Cultural Communities/Indigenous Peoples. Said project covers an area of 425.1146 hectares more or less and within portions of Lot 4, Gss-12-000485 covered by OCT No. CARP2015000088 registered in the name of Lucinia M. Apas; Lot No. 94, Gss-12-000485 covered by OCT No. CARP2014001795 registered in the name of Lovelyness F. Alegado; Lot No. 10, Gss-12-000485 covered by OCT No. CARP2014001769 registered in the name of Chorchelle Joy Dapitan; Lot No. 6, Gss-12-000485 covered by OCT No. CARP2014000870 registered in the name of Cyrus Mirabueno; Lot No. 13, Gss-12-000485 covered by OCT No. CARP2014000677 registered in the name of Ishmael Zamora; Lot No. 7, Gss-12-000485 covered by OCT No. CARP2014000663 registered in the name of Syra M. Gabilo; Lot 92, Gss-12-000485 covered by OCT No. CARP2014000658 registered in the name of Francisco Lianto, Jr.; Lot No. 8, Gss-12-000485 covered by OCT No. CARP2014000438 registered in the name of Leo Francis Mirabueno; Lot No. 9, Gss-12-000485 covered by OCT No. CARP2014000605 registered in the name of Jerome V. Obligado; Lot No. 11, Gss-12-000485 covered by OCT No. CARP2014000381 registered in the name of Archie V. Obligado; Lot No. 5, Gss-12-000485 covered by OCT No. CARP2014000380 registered in the name of Caroline Mirabueno; Lot No. 80, Gss-12-000485 covered by OCT No. CARP2014000379 registered in the name of Estanislao J. Aguanta; Lot No. 78, Gss-12-000485 covered by OCT No. 148-2014000377 registered in the name of Nimfa Salanio; Lot No. 14, Gss-12-000485 covered by OCT No. 148-2014000107 registered in the name of Angelita V. Obligado; Lot No. 79, Gss-12-000485 covered by OCT No. 148-2014000091 registered in the name of Jermuel B. Susuben; Lot No. 75, Gss-12-000485 covered by OCT No. 148-2014000068 registered in the name of Romeo Vera Cruz, Jr.; Lot No. 76, Gss-12-000485 covered by OCT No. 148-2014000040 registered in the name of Wilma T. Apitong; Lot No. 77, Gss-12-000485 covered by OCT No. 148-2014000027 registered in the name of Jason B. Salanio; Lot 100, Gss-12-000485 covered by OCT No. 148-2014000019 registered in the name of Marilou S. Salanio; Lot No. 97, Gss-12-000485 covered by OCT No. 148-2014000037 registered in the name of Romeo Vera Cruz, Jr.; Lot 91, Gss-12-000485 covered by OCT No. 148-2014000067 registered in the name of Jovy D. Tibo; Lot No. 99, Gss-12-000485 covered by OCT No. 148-2014000141 registered in the name of Freddie E. Dapitan, Jr.; Lot No. 93, Gss-12-000485 covered by OCT No. 148-2014000145 registered in the name of Theodore John Villarta; Lot No. 98, Gss-12-000485 covered by OCT No. CARP2015000247 registered in the name of Joseph S. Mendoza; Lot No. 96, Gss-12-000485 covered by OCT No. 148-2014000388 registered in the name of Archie V. Obligado; Lot No. 1, Gss-12-000485 covered by OCT No. CARP2014000387 registered in the name of Norman Eusebio Mirabueno; Lot 2, Gss-12-000485 covered by OCT No. CARP2017000012 registered in the name of Veronica Mirabueno; Lot 3, Gss-12-000485 covered by OCT No. CARP2017000013 registered in the name of Humselina M. Mojica, all are located at **Barangay Kamanga, Maasin Sarangani**; Lot No. 53, Gss-12-000520-D covered by OCT No. CARP2013000096 registered in the name of Magdalena I. Zamora; Lot 52, Gss-12-000520-D covered by OCT No. CARP2013000029 registered in the name of Arvin G. Delfin; Lot 56, Gss-12-000520-D covered by OCT No. CARP2014000388 registered in the name of Jonathan D. Tibo; Lot No. 103, Gss-12-000520-D covered by OCT No. CARP2014000439 registered in the name of Joe Albert M. Ganton; Lot 83, Gss-12-000520-D covered by OCT No. CARP2013000021 registered in the name of Jean M. Ancheta; Lot No. 57, Gss-12-000520-D covered by OCT No. CARP2013000037 registered in the name of Jovy D. Tibo; Lot 60, Gss-12-000520-D covered by OCT No. CARP2013000041 registered in the name of Edmar Villarico; Lot 85, Gss-12-000520-D covered by OCT No. CARP2013000042 registered in the name of Joseph Jainer; Lot No. 78, Gss-12-000520-D covered by OCT No. CARP2013000088 registered in the name of Allan Macorol; Lot No. 51, Gss-12-000520-D covered by OCT No. CARP2013000104 registered in the name of Angel Garcia; Lot 81, Gss-12-000520-D covered by OCT No. CARP2013000111 registered in the name of Sara

Malangan; Lot No. 77, Gss-12-000520-D covered by OCT No. CARP2014000096 registered in the name of Estanislao J. Aguania; Lot No. 80, Gss-12-000520-D covered by OCT No. CARP2014000384 registered in the name of Everett Mark E. Adre; Lot No. 55, Gss-12-000520-D covered by OCT No. CARP2014000385 registered in the name of Nestor Villaver; Lot No. 99, Gss-12-000520-D covered by OCT No. CARP2014000386 registered in the name of Ian Rex S. Pontejo; Lot No. 59, Gss-12-000520-D covered by OCT No. CARP2014000389 registered in the name of Elvin Vilarico; Lot No. 100, Gss-12-000520-D covered by OCT No. CARP2014000410 registered in the name of Feliciano Amonsot; Lot No. 102, Gss-12-000520-D covered by OCT No. CARP2014000461 registered in the name of Karl Nixon S. Pontejo; Lot No. 98, Gss-12-000520-D covered by OCT No. CARP2014000486 registered in the name of Rogelio B. Pontejo; Lot 82, Gss-12-000520-D covered by OCT No. CARP2014000678 registered in the name of Robilyn Pablona; Lot No. 84, Gss-12-000520-D covered by OCT No. CARP2014001264 registered in the name of Candy H. Mirabueno; Lot 101, Gss-12-000520-D covered by OCT No. CARP 2014001335 registered in the name of Archer M. Akbat; Lot No. 94, Gss-12-000520-D covered by OCT No. CARP2014000487 registered in the name of Josephine Tuplano; Lot No. 93, Gss-12-000520-D covered by OCT No. CARP2014000390 registered in the name of Ma. Victoria Mirabueno; Lot No. 51, Gss-12-000407, Parcel 2 covered by OCT No. P-16009 registered in the name of Jumaira M. Esmael; Lot No. 44, Gss-12-000407, Parcel 2 covered by OCT No. P-16078 registered in the name of Falsal S. Piang; Lot No. 45, Gss-12-000407, Parcel 1 covered by OCT No. P-16076 registered in the name of Artemio M. Abdulbali; Lot No. 8, Gss-12-000407, Parcel 1 covered by OCT No. P-16066 registered in the name of Noorvaiza M. Esmael; Lot No. 45, Gss-12-000407, Parcel 2 covered by OCT No. P-16110 registered in the name of Cris Ibrahim; Lot No. 3, Gss-12-000407, Parcel 2 covered by OCT No. P-16296 registered in the name of Abdul M. Wahani; Lot No. 50, Gss-12-000407, Parcel 1 covered by OCT No. P-16508 registered in the name of Abdulrajan S. Kamid; Lot 52, Gss-12-000407, Parcel 1 covered by OCT No. P-16772 registered in the name of Miguel D. Escobar; Lot No. 50, Gss-12-000407, P-2 covered by OCT No. P-17382 registered in the name of Glenn B. Pasawian; Lot No. 53, Gss-12-000407, P-2 covered by OCT No. P-17383 registered in the name of Alex G. Vergara; Lot No. 49, Gss-12-000407, Parcel 2 covered by OCT No. P-17384 registered in the name of Eona Grace T. Rondina; Lot No. 13, Gss-12-000407, P-1 covered by OCT No. P-17387 registered in the name of Susan L. Asibal; Lot No. 47, Gss-12-000407, Parcel 1 covered by OCT No. CARP2014000845 registered in the name of Baina A. Sahak; Lot No. 48, Gss-12-000407, Parcel 2 covered by OCT No. CARP2014000958 registered in the name of Hadja Rohaima Akong, all are located in Barangay Tinoto, Maasin, Sarangani.

THIS IS TO CERTIFY FURTHER that the Proponent undertakes to comply with the requirements of Free and Prior informed Consent (FPIC) should it be found later that there is, in fact, an overlap in whole or in part.

THIS CERTIFICATION is issued based on the findings of the Field Based Investigation (FBI) conducted on December 3, 2020 with MR. LUCIANO B. LUMANCAS as the Team Leader in accordance with Section 15 of NCIP Administrative Order No. 3, Series of 2012.


THIS OFFICE, however, reserves whatever action needed to be undertaken to protect the rights and interests of the Indigenous Cultural Communities/Indigenous Peoples (ICCs/IPs) concerned, including the cancellation/revocation of this certification, as the case may be.

Done this 05th day of August, 2021 at Koronadal City, South Cotabato, Philippines.


JEANNE ANNE MOENDEG-ZOLA
Regional Director

Concurred by:

LIMPAYEN JENNIFER PIA SIBUG-LAS
Ethnographic Commissioner

FILE NO. CNO 050 
Office of the Regional Director
NCIP XII
Control No. RDI-CNO-21-08-0602



Republic of the Philippines
Province of Sarangani
Municipality of Maasim



BARANGAY KAMANGA

OFFICE OF THE SANGGUNIANG BARANGAY

EXCERPT FROM THE MINUTES OF THE 8th REGULAR SESSION OF THE
SANGGUNIANG BARANGAY OF KAMANGA, MAASIM, THIS MUNICIPALITY,
HELD ON AUGUST 01, 2018, KAMANGA, MAASIM SARANGANI PROVINCE.

PRESENT:

HON. ROSADELIMA N. MANGELEN
HON. DAISY C. ISHMAEL
HON. MOHMEN J. MANGELEN
HON. TOMAS M. TANGCONG
HON. AURELIA D. MACAGCALAT
HON. ISRAEL M. BUGHAW
HON. JOEL A. AMADORA
HON. PAULO JAMES I. REPOLIDO
HON. ANJOE BATUAN
HON. ANGELITO A. PIANG

-PUNONG BARANGAY/PRESIDING
-BARANGAY COUNCILOR
-BARANGAY COUNCILOR
-BARANGAY COUNCILOR
-BARANGAY COUNCILOR
-BARANGAY COUNCILOR
-BARANGAY COUNCILOR
-BARANGAY COUNCILOR
-SK CHAIRMAN
-BARANGAY COUNCILOR

ABSENT-NONE

RESOLUTION 2018-013

A BARANGAY RESOLUTION INTERPOSING NO OBJECTION OF THE HOLCIM
MINING AND DEVELOPMENT CORPORATION FOR THE LIMESTONE QUARRY
PROJECT, LOCATED AT BARANGAY KAMANGA, MAASIM, SARANGANI
PROVINCE.

Authored and Sponsored by HON. JOEL A. AMADORA

WHEREAS, the HOLCIM MINING AND DEVELOPMENT CORPORATION - a
recognized business incorporators, duly registered by the Security and Exchange Commission
(SEC) with SEC Reg. No. CS 144982, as adopted on October 26, 2015 (as per copy of S.E.C
Certificate of filing amended Articles of Incorporation).

WHEREAS, the HOLCIM MINING AND DEVELOPMENT CORPORATION with business
address at KM.21, Budbud, Brgy. Bunawan, Bunawan District and holding a Business License
with Permit No. B-13823-1, issued by the Business Permit and License Division- Office of the
City Mayor at the City of Davao, Province of Davao Del Sur.

WHEREAS, the operation of Limestone Quarry Project having a total of 425.1146 hectares of
land.

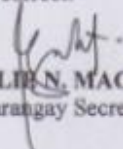
NOW THEREFORE, after careful and thorough deliberation by the Sangguniang Barangay and upon motion by Hon. **JOEL A. AMADORA**, duly seconded by all barangay members officially present, it was;

RESOLVED AS IT IS HEREBY RESOLVED, to pass a Barangay Resolution interposing NO OBJECTION of HOLCIM MINING AND DEVELOPMENT CORPORATION for the development and operation of a LIMESTONE QUARRY PROJECT under MPSA 274-2008-XI-Parcel 4, located at Barangay Kamanga and Tinoto Maasim, Sarangani Province.

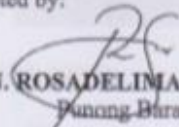
UNANIMOUSLY APPROVED August 01, 2018

I HEREBY CERTIFY, to the correctness of the foregoing barangay resolution which was duly adopted by the Sangguniang Barangay during its 8th regular session on August 01, 2018.

Certified correct:


NATHALIA N. MACAGCALAT
Barangay Secretary

Attested by:


HON. ROSADELINA N. MANGELEN
Punong Barangay

Vertical handwritten notes on the left margin:
- Top: "ang mga..."
- Middle: "ang mga..."
- Bottom: "ang mga..."



Republic of the Philippines
PROVINCE OF SARANGGANI
Municipality of Maasim
Barangay Tinoto



OFFICE OF THE SANGGUNIANG BARANGAY

EXCERPTS FROM THE MINUTES OF INAUGURAL REGULAR SESSION OF THE SANGGUNIANG BARANGAY OF TINOTO, MUNICIPALITY OF MAASIM PROVINCE OF SARANGGANI HELD ON JULY 30, 2018 AT THE SANGGUNIANG BARANGAY SESSION HALL.

Present:

HON. RAJIK A. KUDARAT
HON. BABY S. ISHMAEL
HON. ALANO M. WAHANI
HON. DAMSALI M. SAPPAYANI
HON. URIK L. MANGGOT
HON. ISNURI I. HUNDANI
HON. ROY M. TIO
HON. PERLA B. MUSA
HON. ABRAEL YAM W. KABE
FULONG TEDDY I. PIANG

Punong Barangay/ Presiding Officer
Barangay Kagawad
Barangay Kagawad
Barangay Kagawad
Barangay Kagawad
Barangay Kagawad
Barangay Kagawad
Sk Chairman
IP Representative

RESOLUTION NO. 5, Series of 2018

A BARANGAY RESOLUTION INTERPOSING **NO OBJECTION OF** THE HOLCIM MINING AND DEVELOPMENT CORPORATION. FOR THE LIMESTONE QUARRY PROJECT, LOCATED AT BARANGAY **TINOTO, MAASIM, SARANGANI PROVINCE.**

Authored and Sponsored by HON. ROY TIO

WHEREAS, the HOLCIM MINING AND DEVELOPMENT CORPORATION - a recognized business incorporators, duly registered by the Security and Exchange Commission (SEC) with SEC Reg. No. CS 144982, as adopted on October 26, 2015 (as per copy of S.E.C Certificate of filing amended Articles of Incorporation).

WHEREAS, the HOLCIM MINING AND DEVELOPMENT CORPORATION with business address at KM.21, Budbud, Brgy. Bunawan, Bunawan District and holding a Business License with Permit No. B-13823-1, issued by the Business Permit and License Division- Office of the City Mayor at the City of Davao, Province of Davao Del Sur.

WHEREAS, the operation of Limestone Quarry Project having a total of 425.1146 hectares of land.

NOW THEREFORE, after careful and thorough deliberation by the Sangguniang Barangay and upon motion by Hon. ROY TIO, duly seconded by all barangay members officially present, it was;

RESOLVED AS IT IS HEREBY RESOLVED, to pass a Barangay Resolution interposing NO OBJECTION of HOLCIM MINING AND DEVELOPMENT CORPORATION for the development and operation of a LIMESTONE QUARRY PROJECT under MPSA 274-2008-XI-Parcel 4, located at Barangay Kamanga and Tinoto Maasim, Sarangani Province.


UNANIMOUSLY APPROVED July 30, 2018

I HEREBY CERTIFY, to the correctness of the foregoing barangay resolution which was duly adopted by the Sangguniang Barangay during its 1st regular session on July 30, 2018.

CERTIFIED CORRECT:


JOCelyn D. GAMPAL
Barangay Secretary

ATTESTED AND APPROVED:


HON. RAMIK A. KUDARAT
Punong Barangay



Republic of the Philippines
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
Sarangani Bay Protected Seascape
PROTECTED AREA MANAGEMENT BOARD
PENRO XII-3, Alabel, Sarangani province
Tel. No. (083) 504-2009



CERTIFICATION

TO WHOM IT MAY CONCERN:

THIS IS TO CERTIFY that **MR. JOEL G. BADANG** proponent of **HOLCIM NINDIGANHI DEVELOPMENT CORPORATION** located at Brgy. Tinoto, Maasin, Sarangani Province has applied for PAMB Clearance pursuant to DAO 2007-17 as amended by DAO 2018-05 dated March 15, 2018 consistent with the provisions of R.A 7586 as amended by R.A 11038 or the Expanded National Integrated Protected Area System (E-NIPAS) Act of 2018.

This certifies further that the proponent has submitted its application documents and has been deliberated by the PAMB Technical Working Committee and DENR Technical Working Group with the following findings and recommendation:

1. That the proposed activity/project is outside the area of Sarangani Bay Protected Seascape;
2. That the proponent is not required to apply for Special Use Agreement in Protected Area;
3. That the issuance of this certification does not exempt the proponent from securing PAMB Clearance if they wish to undertake activities within SBPS area including the utilization or extraction of natural resources.

Certifying, furthermore, that this is issued to the effect only of the lawfulness of the development project to be carried out in accordance with the provisions of Presidential Proclamation 736, Republic Act No. 7586 (NIPAS Act of 1992) as amended by RA 11038 (Expanded NIPAS Act of 2018), Republic Act No. 9275 (The Clean Water Act of 2004), Republic Act No. 8749 (The Clean Air Act of 1999), PD 1586 (The Environmental Impact Statement System) and all other applicable environment and natural resources laws and all their Implementing Rules and Regulations.

This certification shall not be construed as authority to ~~materially change~~ the specified use without any permit therefor from the PAMB and shall ~~support their application for an issuance of~~ Environmental Compliance Certificate (ECC) at the EMB Region XII, ~~Koronadal City pursuant to SBPS-PAMB Resolution No. 2017-020, series of 2017.~~

Issued this 27th day of AUGUST, 2020 at the Protected Management Office of SBPS, PENRO Alabel, Sarangani Province.

JOY A. OLOGUIN

Supervising EMS/PA Superintendent

Certification Fee: P100.00
Documentary Stamp: P30.00
Official Receipt No. 3146355 / 3146320
Date Issued: 08/27/2020
Issued at: POB, ALABEL, SARANGANI PROVINCE

ANNEX K- REGISTERED EXPANSION ORDER



Republic of the Philippines
Department of Environment and Natural Resources
Visayas Avenue, Diliman, Quezon City, 1100
Tel Nos. (632) 929-66-26 to 29 • (632) 929-62-52
929-66-20 • 929-66-33 to 35
929-70-41 to 43

IN RE: APPLICATION OF HOLCIM PHILIPPINES, INC.
FOR AREA EXPANSION INVOLVING MINERAL
PRODUCTION SHARING AGREEMENT NO.
274-2008-XI AND APPLICATIONS FOR
MINERAL PRODUCTION SHARING
AGREEMENT DENOMINATED AS APSA-
000107-XI AND APSA-032-XII-1997



ORDER

WHEREAS, Section 7 of Department of Environment and Natural Resources (DENR) Administrative Order (DAO) No. 2012-07, the Implementing Rules and Regulations of Executive Order (EO) No. 79, provides that *"No new mineral agreements shall be entered into until a legislation rationalizing existing revenue sharing schemes and mechanisms shall have taken effect: Provided, that any expansion of existing contract areas shall not exceed the maximum hectareage per province set by the Philippine Mining Act of 1995..."*

WHEREAS, the Mining Industry Coordinating Council issued Resolution No. 5 on March 4, 2015 transferring from its Technical Working Group on Environmental Protection and Legislation to DENR-Mines and Geosciences Bureau the function of validating applications for expansion of existing mining areas, including the field verification and subsequent approval of the pertinent application;

WHEREAS, thru the Letters of May 24, 2013 and May 11, 2015, Holcim Philippines, Inc. applied for the expansion of the area under Mineral Production Sharing Agreement (MPSA) No. 274-2008-XI covering 642.1537 hectares located in Davao City by annexing the areas covered by its MPSA applications denominated as APSA-000107-XI and APSA-032-XII-1997 covering 339.3021 and 425.1146 hectares located in Davao City and Maasin, Sarangani, respectively, pursuant to the pertinent provisions of EO No. 79 and its Implementing Rules and Regulations;

WHEREAS, HPI has substantially complied with the pertinent requirements for area expansion, including the required validation, pursuant to the pertinent provisions of EO No. 79 and its Implementing Rules and Regulations;

WHEREFORE, the foregoing premises considered, the Mineral Production Sharing Agreement No. 274-2008-XI granted to Holcim Philippines, Inc. is hereby **expanded** by annexing the areas covered by the applications for Mineral Production Sharing Agreement denominated as APSA-000107-XI and APSA-032-XII-1997, under the same terms and conditions provided for under Mineral Production Sharing Agreement No. 274-2008-XI and the existing applicable laws, rules and regulations.

SO ORDERED.

Quezon City, Philippines, 14 JUL 2015

By Authority of the Secretary:


LEO L. JASARENO
Director
Mines and Geosciences Bureau

CERTIFIED TRUE COPY


EDGARDO D. CASTILLO
OFFICER-IN-CHARGE
MINING TENEMENTS MANAGEMENT DIVISION

Let's Go Green!

Department of Environment and Natural Resources
Mines and Geosciences Bureau



11/07/15

16:32:27

Groundwater Analysis

PHOTOS TAKEN DURING INTERVIEW FOR FLORAL BASELINE GATHERING

ALEJANDRO PANGGILAWAN



DANTE TIMAN, SR.



JESSEN BOQUECOSA



MAGNO LOQUEZ, JR.



JONNY MAD



CEASAR FANGGULO



JONNY MAD



ROSITA SANDAG



TAMMY DANIEL



RODELYN DONGGO



BERNARDO MOISES



DIONE PALMERO



CHARON KILAM



EVA MAE CASTILLON



KIRBIE TIMANPYANG







UNIVERSITY OF THE IMMACULATE CONCEPTION

SCIENCE RESOURCE CENTER

UIC-SRC Form No. 7
Revision No. 01
10.01.2018

TEST REPORT

NAME OF CUSTOMER: HELIX MINING DEVELOPMENT CORPORATION
ADDRESS: TINOTO, MAASIM, SARANGANI PROVINCE
SAMPLE: WATER (01)
DATE SAMPLED : 07/06/2022






CONTROL NO: 22-1267C.1
DATE REPORTED: 08/23/2022
DATE ANALYSIS STARTED: 07/07/2022
DATE SAMPLE RECEIVED: 07/07/2022

RESULTS OF ANALYSIS:

Lab. No.	W22-2701
Description	Pacman
Ammoniacal-Nitrogen, mg/L	0.332
Arsenic, mg/L	<0.002
Cadmium, mg/L	0.072
Chromium (hexavalent), mg/L	<0.010
Chromium (total), mg/L	0.217
Lead, mg/L	0.31
Manganese, mg/L	0.054
Mercury, mg/L	<0.002
Nickel, mg/L	0.768
	Nothing follows

REMARKS: 1. Results relate only to sample as submitted and tested.
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CERTIFIED BY:


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Director

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Davao City 8000
Philippines

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UNIVERSITY OF THE IMMACULATE CONCEPTION

SCIENCE RESOURCE CENTER

UIC-SRC Form No. 7
Revision No. 01
10.01.2018

TEST REPORT

NAME OF CUSTOMER: HELIX MINING DEVELOPMENT CORPORATION
ADDRESS: TINOTO, MAASIM, SARANGANI PROVINCE
SAMPLE: WATER (01)
DATE SAMPLED : 07/06/2022






CONTROL NO: 22-1267C.2
DATE REPORTED: 08/23/2022
DATE ANALYSIS STARTED: 07/07/2022
DATE SAMPLE RECEIVED: 07/07/2022

RESULTS OF ANALYSIS:

Lab. No.	W22-2702
Description	Sea Water 2
Ammoniacal-Nitrogen, mg/L	<0.007
Arsenic, mg/L	<0.002
Cadmium, mg/L	0.058
Chromium (hexavalent), mg/L	<0.010
Chromium (total), mg/L	0.195
Lead, mg/L	0.27
Manganese, mg/L	0.043
Mercury, mg/L	<0.002
Nickel, mg/L	0.650
	Nothing follows

REMARKS: 1. Results relate only to sample as submitted and tested.
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ADDRESS: TINOTO, MAASIM, SARANGANI PROVINCE
SAMPLE: WATER (01)
DATE SAMPLED : 07/06/2022






CONTROL NO: 22-1267C.3
DATE REPORTED: 08/23/2022
DATE ANALYSIS STARTED: 07/07/2022
DATE SAMPLE RECEIVED: 07/07/2022

RESULTS OF ANALYSIS:

Lab. No.	W22-2703
Description	Sea Water 3
Ammoniacal-Nitrogen, mg/L	0.109
Arsenic, mg/L	<0.002
Cadmium, mg/L	0.063
Chromium (hexavalent), mg/L	<0.010
Chromium (total), mg/L	0.228
Lead, mg/L	0.33
Manganese, mg/L	0.024
Mercury, mg/L	<0.002
Nickel, mg/L	0.738
	Nothing follows

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SAMPLE: WATER (01)
DATE SAMPLED : 07/06/2022






CONTROL NO: 22-1267C.4
DATE REPORTED: 08/23/2022
DATE ANALYSIS STARTED: 07/07/2022
DATE SAMPLE RECEIVED: 07/07/2022

RESULTS OF ANALYSIS:

Lab. No.	W22-2704
Description	Mirabueno Farm
Ammoniacal-Nitrogen, mg/L	5.71
Arsenic, mg/L	<0.002
Cadmium, mg/L	<0.003
Chromium (hexavalent), mg/L	<0.010
Chromium (total), mg/L	0.057
Lead, mg/L	<0.01
Manganese, mg/L	<0.002
Mercury, mg/L	<0.002
Nickel, mg/L	<0.006
	Nothing follows

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ADDRESS: TINOTO, MAASIM, SARANGANI PROVINCE
SAMPLE: WATER (01)
DATE SAMPLED : 07/06/2022






CONTROL NO: 22-1267C.5
DATE REPORTED: 08/23/2022
DATE ANALYSIS STARTED: 07/07/2022
DATE SAMPLE RECEIVED: 07/07/2022

RESULTS OF ANALYSIS:

Lab. No.	W22-2705
Description	Mirabueno Farm 2
Ammoniacal-Nitrogen, mg/L	<0.007
Arsenic, mg/L	<0.002
Cadmium, mg/L	<0.003
Chromium (hexavalent), mg/L	<0.010
Chromium (total), mg/L	<0.001
Lead, mg/L	<0.01
Manganese, mg/L	0.580
Mercury, mg/L	<0.002
Nickel, mg/L	<0.006
	Nothing follows

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ADDRESS: TINOTO, MAASIM, SARANGANI PROVINCE
SAMPLE: WATER (01)
DATE SAMPLED : 07/06/2022






CONTROL NO: 22-1267C.6
DATE REPORTED: 08/23/2022
DATE ANALYSIS STARTED: 07/07/2022
DATE SAMPLE RECEIVED: 07/07/2022

RESULTS OF ANALYSIS:

Lab. No.	W22-2706
Description	Siguel River 1
Ammoniacal-Nitrogen, mg/L	<0.007
Arsenic, mg/L	<0.002
Cadmium, mg/L	<0.003
Chromium (hexavalent), mg/L	<0.010
Chromium (total), mg/L	0.058
Lead, mg/L	<0.01
Manganese, mg/L	0.031
Mercury, mg/L	<0.002
Nickel, mg/L	<0.006
	Nothing follows

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SAMPLE: WATER (01)
DATE SAMPLED : 07/06/2022




CONTROL NO: 22-1267C.7
DATE REPORTED: 08/23/2022
DATE ANALYSIS STARTED: 07/07/2022
DATE SAMPLE RECEIVED: 07/07/2022

RESULTS OF ANALYSIS:

Lab. No.	W22-2707
Description	Siguel River 2
Ammoniacal-Nitrogen, mg/L	<0.007
Arsenic, mg/L	<0.002
Cadmium, mg/L	<0.003
Chromium (hexavalent), mg/L	<0.010
Chromium (total), mg/L	<0.001
Lead, mg/L	<0.01
Manganese, mg/L	0.015
Mercury, mg/L	<0.002
Nickel, mg/L	<0.006
Nothing follows	

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SAMPLE: WATER (01)
DATE SAMPLED : 07/06/2022






CONTROL NO: 22-1267C.8
DATE REPORTED: 08/23/2022
DATE ANALYSIS STARTED: 07/07/2022
DATE SAMPLE RECEIVED: 07/07/2022

RESULTS OF ANALYSIS:

Lab. No.	W22-2708
Description	Siguel River 3
Ammoniacal-Nitrogen, mg/L	0.229
Arsenic, mg/L	<0.002
Cadmium, mg/L	<0.003
Chromium (hexavalent), mg/L	<0.010
Chromium (total), mg/L	0.020
Lead, mg/L	<0.01
Manganese, mg/L	0.030
Mercury, mg/L	<0.002
Nickel, mg/L	<0.006
	Nothing follows

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Republic of the Philippines
Province of Sarangani
MUNICIPAL PLANNING & DEVELOPMENT OFFICE
Municipality of Maasin



January 17, 2022

JOEL G. BADANG

Mining and Operations Manager
Holcim Mining & Development Corporation
Km. 21, Budbud, Bunawan, Davao City

Sir:

This has reference to your letter dated December 27, 2021 requesting this office for a zoning certification of a certain area of around 425.1146 hectares in barangay Tinoto, this municipality, for your proposed limestone extraction project which was already issued by our Zoning Officer though the area is zoned as parks and recreation zone while the nature or type of the project is mining/quarrying, thus, the project is non-confirming as to land use or zone.

Nonetheless, we will consider your area to be reclassified into mining/quarrying zone in the revision of our Comprehensive Land use Plan (CLUP) which is now ongoing and wish to be approved by the third quarter of this year.

Hope we have elucidated your good end on this matter.

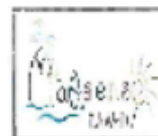
Thank you and more power.

Very truly yours,

RONALD L. ORBITA, EnP
Municipal Planning & Development Coordinator



Republic of the Philippines
Province of Sarangani
MUNICIPAL PLANNING & DEVELOPMENT OFFICE
Municipality of Maasin



January 17, 2022

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Very truly yours,

RONALD L. ORBITA, EnP
Municipal Planning & Development Coordinator



**Holcim
Mining &
Development
Corporation**

Environmental Impact Statement
HMDC Proposed Limestone Mining
Brgy. Tinoto, Municipality of Maasim, Sarangani Province



**Holcim
Mining &
Development
Corporation**

5th Floor, One Campus Place, Tower B
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Fort Bonifacio, Taguig City, Philippines 1634

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+63 02 4659 832

April 23, 2021

HON. ZYREX C. PACQUIAO
Local Chief Executive
Maasim, Sarangani Province

Thru:

LOCAL ZONING REVIEW COMMITTEE (LZRC)

Re: Reclassification of Land – From Parks and Recreational to Industrial
Identified Areas of Kamanga and Tinoto, Maasim, Sarangani Province

Dear Sir,

GREETINGS!

Our company Holcim Mining and Development Corporation (HMDC) has signified our intention to undertake Limestone Extraction Project to the Municipality of Maasim. The project was designated by the Mines and Geo-Sciences Bureau as MPSA 274-2008-XII Parcel 4 covering an area of 425.1146 hectares.

Currently, the whole area where the planned Limestone Extraction Project will be located is classified as Parks and Recreational Land. The area has not been cultivated for more than 20 years already and had been left idle and undeveloped since HMDC's presence. Premises considered, we are most respectfully requesting for a reclassification of mining claim areas of HMDC (maps and locations are attached) from "PARKS AND RECREATIONAL" to "INDUSTRIAL" land use.

The company had already obtained support from the two barangays (Kamanga and Tinoto) through their endorsements that interpose no objection to the project. The reclassification would enable HMDC to pursue its' ECC Application while getting the support of MAASIM MLGU Officials. It would also mean additional investment for Maasim in an adjunct to your impetus for the sustainable economic growth. HMDC aims to support the growth by providing quality business partnerships at par with country's best

Your favourable accommodation of our request will be most appreciated. Thank you very much.

Respectfully yours,

ENGR. JOEL G. BADANG
Mining Operations Manager

Received by:

[Signature]
C.B. Manahan
9-1-2021



Republic of the Philippines
OFFICE OF THE PRESIDENT
NATIONAL COMMISSION ON INDIGENOUS PEOPLES
Regional Office XII

Jayven Bldg., Gansan Drive, Corner Posadas St., Koronadal City, South Cotabato

CERTIFICATE OF NON-OVERLAP

THIS IS TO CERTIFY that the proposed site of the project entitled **LIMESTONE EXTRACTION of HOLCIM MINING AND DEVELOPMENT CORPORATION** does not affect/overlap any ancestral domain of Indigenous Cultural Communities/Indigenous Peoples. Said project covers an area of 425.1146 hectares more or less and within portions of Lot 4, Gss-12-000485 covered by OCT No. CARP2015000088 registered in the name of Lucinia M. Apas; Lot No. 94, Gss-12-000485 covered by OCT No. CARP2014001795 registered in the name of Lovelyness F. Alegado; Lot No. 10, Gss-12-000485 covered by OCT No. CARP2014001769 registered in the name of Chorchelle Joy Dapitan; Lot No. 6, Gss-12-000485 covered by OCT No. CARP2014000870 registered in the name of Cyrus Mirabueno; Lot No. 13, Gss-12-000485 covered by OCT No. CARP2014000677 registered in the name of Ishmael Zamora; Lot No. 7, Gss-12-000485 covered by OCT No. CARP2014000663 registered in the name of Syra M. Gabillo; Lot 92, Gss-12-000485 covered by OCT No. CARP2014000658 registered in the name of Francisco Lianto, Jr.; Lot No. 8, Gss-12-000485 covered by OCT No. CARP2014000438 registered in the name of Leo Francis Mirabueno; Lot No. 9, Gss-12-000485 covered by OCT No. CARP2014000605 registered in the name of Jerome V. Obligado; Lot No. 11, Gss-12-000485 covered by OCT No. CARP2014000381 registered in the name of Archie V. Obligado; Lot No. 5, Gss-12-000485 covered by OCT No. CARP2014000380 registered in the name of Caroline Mirabueno; Lot No. 80, Gss-12-000485 covered by OCT No. CARP2014000379 registered in the name of Estanislao J. Aguinta; Lot No. 78, Gss-12-000485 covered by OCT No. 148-2014000377 registered in the name of Nimfa Salanio; Lot No. 14, Gss-12-000485 covered by OCT No. 148-2014000107 registered in the name of Angelita V. Obligado; Lot No. 79, Gss-12-000485 covered by OCT No. 148-2014000091 registered in the name of Jemuel B. Susuban; Lot No. 75, Gss-12-000485 covered by OCT No. 148-2014000068 registered in the name of Romeo Vera Cruz, Jr.; Lot No. 76, Gss-12-000485 covered by OCT No. 148-2014000040 registered in the name of Wilma T. Apitong; Lot No. 77, Gss-12-000485 covered by OCT No. 148-2014000027 registered in the name of Jason B. Salanio; Lot 100, Gss-12-000485 covered by OCT No. 148-2014000019 registered in the name of Marlou S. Salanio; Lot No. 97, Gss-12-000485 covered by OCT No. 148-2014000037 registered in the name of Romeo Vera Cruz, Jr.; Lot 91, Gss-12-000485 covered by OCT No. 148-2014000067 registered in the name of Jovy D. Tibo; Lot No. 99, Gss-12-000485 covered by OCT No. 148-2014000141 registered in the name of Freddie E. Dapitan, Jr.; Lot No. 93, Gss-12-000485 covered by OCT No. 148-2014000145 registered in the name of Theodore John Villarta; Lot No. 98, Gss-12-000485 covered by OCT No. CARP2015000247 registered in the name of Joseph S. Mendoza; Lot No. 96, Gss-12-000485 covered by OCT No. 148-2014000388 registered in the name of Archie V. Obligado; Lot No. 1, Gss-12-000485 covered by OCT No. CARP2014000387 registered in the name of Norman Eusebio Mirabueno; Lot 2, Gss-12-000485 covered by OCT No. CARP2017000012 registered in the name of Veronica Mirabueno; Lot 3, Gss-12-000485 covered by OCT No. CARP2017000013 registered in the name of Humsalina M. Mojica, all are located at **Barangay Kamanga, Maasin Sarangani**; Lot No. 53, Gss-12-000520-D covered by OCT No. CARP2013000096 registered in the name of Magdalena I. Zamora; Lot 52, Gss-12-000520-D covered by OCT No. CARP2013000029 registered in the name of Arvin G. Delfin; Lot 56, Gss-12-000520-D covered by OCT No. CARP2014000388 registered in the name of Jonathan D. Tibo; Lot No. 103, Gss-12-000520-D covered by OCT No. CARP2014000439 registered in the name of Joe Albert M. Ganlon; Lot 83, Gss-12-000520-D covered by OCT No. CARP2013000021 registered in the name of Jean M. Ancheta; Lot No. 57, Gss-12-000520-D covered by OCT No. CARP2013000037 registered in the name of Jovy D. Tibo; Lot 60, Gss-12-000520-D covered by OCT No. CARP2013000041 registered in the name of Edmar Villarico; Lot 85, Gss-12-000520-D covered by OCT No. CARP2013000042 registered in the name of Joseph Jainar; Lot No. 78, Gss-12-000520-D covered by OCT No. CARP2013000088 registered in the name of Allan Macorol; Lot No. 51, Gss-12-000520-D covered by OCT No. CARP2013000104 registered in the name of Angel Garcia; Lot 81, Gss-12-000520-D covered by OCT No. CARP2013000111 registered in the name of Sara

Malangan; Lot No. 77, Gss-12-000520-D covered by OCT No. CARP2014000096 registered in the name of Estanislao J. Aguania; Lot No. 80, Gss-12-000520-D covered by OCT No. CARP2014000384 registered in the name of Everett Mark E. Adre; Lot No. 55, Gss-12-000520-D covered by OCT No. CARP2014000385 registered in the name of Nestor Villaver; Lot No. 99, Gss-12-000520-D covered by OCT No. CARP2014000386 registered in the name of Ian Rex S. Pontejo; Lot No. 59, Gss-12-000520-D covered by OCT No. CARP2014000389 registered in the name of Elvin Villarico; Lot No. 100, Gss-12-000520-D covered by OCT No. CARP2014000410 registered in the name of Feliciano Amonsot; Lot No. 102, Gss-12-000520-D covered by OCT No. CARP2014000461 registered in the name of Karl Nixon S. Pontejo; Lot No. 98, Gss-12-000520-D covered by OCT No. CARP2014000486 registered in the name of Rogelio B. Pontejo; Lot 82, Gss-12-000520-D covered by OCT No. CARP2014000678 registered in the name of Robilyn Pebilon; Lot No. 84, Gss-12-000520-D covered by OCT No. CARP2014001264 registered in the name of Candy H. Mirabueno; Lot 101, Gss-12-000520-D covered by OCT No. CARP 2014001335 registered in the name of Archer M. Akbat; Lot No. 94, Gss-12-000520-D covered by OCT No. CARP2014000487 registered in the name of Josephine Tuplano; Lot No. 93, Gss-12-000520-D covered by OCT No. CARP2014000390 registered in the name of Ma. Victoria Mirabueno; Lot No. 51, Gss-12-000407, Parcel 2 covered by OCT No. P-16009 registered in the name of Jumaira M. Esmael; Lot No. 44, Gss-12-000407, Parcel 2 covered by OCT No. P-16078 registered in the name of Falsal S. Piang; Lot No. 45, Gss-12-000407, Parcel 1 covered by OCT No. P-16076 registered in the name of Artemio M. Abdulbali; Lot No. 8, Gss-12-000407, Parcel 1 covered by OCT No. P-16066 registered in the name of Noorvaiza M. Esmael; Lot No. 45, Gss-12-000407, Parcel 2 covered by OCT No. P-16110 registered in the name of Cris Ibrahim; Lot No. 3, Gss-12-000407, Parcel 2 covered by OCT No. P-16296 registered in the name of Abdul M. Wahani; Lot No. 50, Gss-12-000407, Parcel 1 covered by OCT No. P-16508 registered in the name of Abdulrajan S. Kamid; Lot 52, Gss-12-000407, Parcel 1 covered by OCT No. P-16772 registered in the name of Miguel D. Escobar; Lot No. 50, Gss-12-000407, P-2 covered by OCT No. P-17382 registered in the name of Glenn B. Pasawlian; Lot No. 53, Gss-12-000407, P-2 covered by OCT No. P-17383 registered in the name of Alex G. Vergara; Lot No. 49, Gss-12-000407, Parcel 2 covered by OCT No. P-17384 registered in the name of Eona Grace T. Rondina; Lot No. 13, Gss-12-000407, P-1 covered by OCT No. P-17387 registered in the name of Susan L. Asibal; Lot No. 47, Gss-12-000407, Parcel 1 covered by OCT No. CARP2014000845 registered in the name of Baina A. Sahak; Lot No. 48, Gss-12-000407, Parcel 2 covered by OCT No. CARP2014000958 registered in the name of Hadja Rohaima Akong. **all are located in Barangay Tinoto, Maasin, Sarangani.**

THIS IS TO CERTIFY FURTHER that the Proponent undertakes to comply with the requirements of Free and Prior Informed Consent (FPIC) should it be found later that there is, in fact, an overlap in whole or in part.

THIS CERTIFICATION is issued based on the findings of the Field Based Investigation (FBI) conducted on December 3, 2020 with **MR. LUCIANO B. LUMANCAS** as the Team Leader in accordance with Section 15 of NCIP Administrative Order No. 3, Series of 2012.

THIS OFFICE, however, reserves whatever action needed to be undertaken to protect the rights and interests of the Indigenous Cultural Communities/Indigenous Peoples (ICCs/IPs) concerned, including the cancellation/revocation of this certification, as the case may be.

Done this 05th day of August, 2021 at Koronadal City, South Cotabato, Philippines.


JEANNE ANNE MOENDEG-ZOLA
Regional Director

Concurred by:

LIMPAYEN JENNIFER PIA SIBUG-LAS
Ethnographic Commissioner

FILE NO. CNO 050
Office of the Regional Director
NCIP XII
Control No. RDI-CNO-21-08-0600



(Formerly Holcim Mining and Development Corporation)

Don Mariano Santos Avenue
Barangay San Isidro
Angono, Rizal 1930

e-mail: hmdc-op@hmdcph.com

February 20, 2023

Engr. William P. Cuñado

Director

Department of Environment and Natural Resources

ENVIRONMENTAL MANAGEMENT BUREAU

DENR Compound, Visayas Avenue, Diliman, Quezon City

Attention: **Engr. Esperanza A. Sajul**

Chief, Environmental Impact Assessment Management Division

SUBJECT: Amendment of Proponent's Name for the Proposed Limestone
Mining Project in Maasim, Sarangani

Dear Dir. Cuñado,

Greetings!

We are writing to inform you that our company, previously known as Holcim Mining and Development Corporation, has changed its name to Helix Mining and Development Corporation. With this, we would like to inform you that the proponent of our proposed limestone mining project in Maasim, Sarangani will be changed from Holcim Mining and Development Corporation to Helix Mining and Development Corporation.

Attached in this letter is a copy of our Amended Articles of Incorporation filed under Securities and Exchange Commission, for your kind reference. We hope you find everything in order. For concerns, please feel free to contact me at darlene.mata@hmdcph.com

Thank you very much.

Very truly yours,

Darlene B. Mata

Environment Officer

Noted by:

Engr. Clor P. Guevarra

Operations Head



REPUBLIC OF THE PHILIPPINES
SECURITIES AND EXCHANGE COMMISSION

Ground Floor, Secretariat Building, PICC
City Of Pasay, Metro Manila

COMPANY REG. NO. 144982

CERTIFICATE OF FILING
OF
AMENDED ARTICLES OF INCORPORATION

KNOW ALL PERSONS BY THESE PRESENTS:

This is to certify that the amended articles of incorporation of the

HELIX MINING AND DEVELOPMENT CORPORATION

(Formerly: HOLCIM MINING AND DEVELOPMENT CORPORATION)

(Amending Articles I & III thereof)

copy annexed, adopted on June 17, 2021 by majority vote of the Board of Directors and by the vote of the stockholders owning or representing at least two-thirds of the outstanding capital stock, and certified under oath by the Corporate Secretary and a majority of the Board of Directors of the corporation was approved by the Commission on this date pursuant to the provision of Section 15 of the Revised Corporation Code of the Philippines, Republic Act No. 11232, which took effect on February 23, 2019, and copies thereof are filed with the Commission.

Unless this corporation obtains or already has obtained the appropriate Secondary License from this Commission, this Certificate does not authorize it to undertake business activities requiring a Secondary License from this Commission such as, but not limited to acting as: broker or dealer in securities, government securities eligible dealer (GSED), investment adviser of an investment company, close-end or open-end investment company, investment house, transfer agent, commodity/financial futures exchange/broker/merchant, financing/lending company and time shares/club shares/membership certificates issuers or selling agents thereof; nor to operate a fiat money to virtual currency exchange. Neither does this Certificate constitute as permit to undertake activities for which other government agencies require a license or permit.

IN WITNESS WHEREOF, I have set my hand and caused the seal of this Commission to be affixed to this Certificate at Pasay City, Metro Manila, Philippines, this 24th day of January, Twenty Twenty Two.

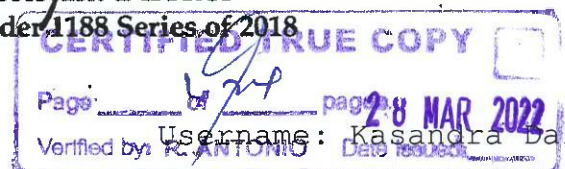
DANIEL R. GABUYO

Assistant Director

SO Order 1188 Series of 2018

ED/qba

ate: 2022-03-25 Time: 08:18:52 AM





Machine Validation:



Republic of the Philippines
DEPARTMENT OF FINANCE
SECURITIES AND EXCHANGE COMMISSION
Secretariat Building, PICC Complex
Roxas Boulevard, Pasay City, 1307

PAYMENT ASSESSMENT FORM

No. 20220110-4651800

DATE 01/10/2022	RESPONSIBILITY CENTER CRMD
PAYOR: HOLCIM MINING AND DEVELOPMENT CORPORATION TAGUIG CITY	

NATURE OF COLLECTION	QUANTITY	ACCOUNT CODE	AMOUNT
Amended Articles of Incorporation		4020102000 (606)	1,000.00
Name Verification		4020199099 (678)	200.00
Legal Research Fee (A0823)		2020105000 (131)	10.00
Documentary Stamp Tax	1	4010401000 (4010401)	30.00
---NOTHING FOLLOWS---			
TOTAL AMOUNT TO BE PAID			Php 1,240.00

Assessed by:
esdorende

Amount in words:
ONE THOUSAND TWO HUNDRED FORTY PESOS AND 00/100

Remarks:
ES.DORENDEZ

20220110-6

Payment Options

- Online payment thru SEC Payment Portal
• <https://www.sec.gov.ph/apps/payment-portal>
- Over the Counter Payments
• SEC Cashier Office
• Selected Landbank Branches

SEC Landbank Accounts

Landbank Region/Area	SEC Clearing Account	SEC Account
Region II, III-A, III-B, IV, Area IV-A, AREA IV-B, and Region VIII	3402-2319-20	Head Office / Tatala
Region I	3402-2319-35	Baguio
Region V	3402-2319-45	Legaspi
Region VI	3402-2319-54	Iloilo / Bacolod
Region VII	3402-2319-62	Cebu
Region IX	3402-2319-70	Zamboanga
Region X	3402-2319-80	Cagayan De Oro
Region XI & XII	3402-2319-87	Davao

For National Capital Region (NCR), payments are only allowed thru the ff. Landbank branches:

Name of Branch	SEC Clearing Account
Edsa Greenhills	3402-2319-20
Edsa Congressional	
Araneta E.O.	
YMCA	
DOTC	
Origas E.O.	
Muntinlupa	
North Avenue	

Breakdown Summary

FUND ACCOUNT	AMOUNT	ACCOUNT #
BTR Account - DST	30.00	see SEC clearing accounts
SEC RCC Current Account	1,200.00	3752-1001-43
BTR Account - LRF	10.00	see SEC clearing accounts
TOTAL	Php 1,240.00	

Notes:

- This form is valid for forty-five (45) calendar days from the date of Payment Assessment Form (PAF)
 - Accepted modes of payment at SEC Main Office, Pasay City:
1. Cash 2. Manager's/Cashier's Check 3. Postal Money Order
 - Accepted modes of payment at selected Landbank branches:
1. Cash 2. Manager's/Cashier's Check payable to the Securities and Exchange Commission
 - For check payment, please prepare separate checks per fund account as indicated on the breakdown summary. All checks must be payable to Securities and Exchange Commission
 - For over the counter payment at LandBank, preparation of oncall payment or deposit slip shall be per fund account as indicated on the breakdown summary.
If fund code is BTR, use an oncall payment slip.
If fund code is SRC or RCC, use a regular deposit slip.
Send through email the copy of the machine-validated oncall payment slip / deposit slip to the issuer of this PAF to confirm that payment has been made.
- F. ANY ALTERATIONS WILL INVALIDATE THIS FORM

Date: 2022-03-25 Time: 08:18:52 AM



COVER SHEET

for Applications at
COMPANY REGISTRATION AND MONITORING DEPARTMENT

Nature of Application

AMENDMENT

SEC Registration Number

1 4 4 9 8 2

Former Company Name

PHILIPPINES

H O L C I M M I N I N G A N D
D E V E L O P M E N T C O R P O R A T I O N

AMENDED TO:
New Company Name

H E L I X M I N I N G A N D
D E V E L O P M E N T C O R P O R A T I O N

Principal Office (No./Street/Barangay/City/Town)Province)

7 T H F L O O R , T W O W O R L D S Q U A R E ,
M C K I N L E Y H I L L , F O R T B O N I F A C I O ,
T A G U I G C I T Y , P H I L I P P I N E S

ZIP CODE

1 6 3 4

COMPANY INFORMATION

Company Email Address

Company's Telephone Number/s

Mobile Number

CONTACT PERSON INFORMATION

The designated person MUST be a Director/Trustee/Partner/Officer/Resident Agent of the Corporation

Name of Contact Person

Email Address

Telephone Number/s

Mobile Number

Contact Person's Address

To be accomplished by CRMD Personnel

Date

Signature

Assigned Processor

Document I.D.

Received by Corporate Filing and Records Division (CFRD)

Forwarded to:

Corporate and Partnership Registration Division
Green Lane Unit
Financial Analysis and Audit Division
Licensing Unit
Compliance Monitoring Division

Date: 2022-03-25 Time: 08:18:52 AM

Username: kasandra Dallo

CERTIFIED TRUE COPY
Page 3 of 24 pages
28 MAR 2022
Verified by: R. ANTONIO

AMENDED
ARTICLES OF INCORPORATION
OF

HELIX MINING AND DEVELOPMENT CORPORATION N E S

(Formerly Holcim Mining and Development Corporation)

Securities and
Exchange
Commission

KNOW ALL MEN BY THESE PRESENTS:

That WE, all of legal age, citizens and residents of the Republic of the Philippines, have this day voluntarily associated ourselves together for the purpose of forming a corporation under the laws of the Republic of the Philippines.

AND WE HEREBY CERTIFY:

FIRST – That the name of the said corporation shall be:

HELIX MINING AND DEVELOPMENT CORPORATION

(As amended on June 17, 2021)

SECOND – That the purposes which the corporation is formed are:

PRIMARY PURPOSE

To carry on the business of operating, prospecting, exploring, mining, quarrying and excavating mines and mineral claims containing lime, limestone, shale, silica, gypsum, marble, granite, coal and all other cement material or building stone and clay, and of prospecting, exploration and of mining, concentrating, converting, smelting, treating, refining, preparing for market, manufacturing, buying, selling, exchanging and otherwise producing and dealing in all other kinds of minerals, and minerals, hydrocarbons, acids and chemicals, and in the products and by-products of every kind and description and by whatsoever process, the same can be or may hereafter be produced, processed or acquired of leasing or sub-leasing of real and other kinds of property, and of providing tolling services or entering into arrangements for the provision of tolling services with respect to the foregoing, primarily and on a priority basis, to provide support to, and address the business requirements of the Holcim Philippines, Inc. and any of its affiliates, as well as any other entity with interests not adverse to Holcim Philippines, Inc. and any of its affiliates (As amended on October 26, 2015).

SECONDARY PURPOSE

I. To purchase, develop, locate, or otherwise acquire, "own, exchange, sell, or otherwise dispose of, pledge, mortgage, execute deeds in trust, hypothecate, and deal in mines, mining claims, mineral lands, real estate of all kinds, including but not limited to mineral

lands, coal lands, and timber lands, water and water rights, and other kinds property; (As amended on July 24, 2014).

2. To purchase, acquire, own, sell and convey buildings, factories and warehouse and machineries, equipment and other personal properties as may be necessary or incidental to the conduct of the corporate business, and to pay in cash, shares of its capital stock, debentures and other evidences of indebtedness, or other securities, as may be deemed expedient, for any business or property acquired by the corporation, (As amended on October 26, 2015).

3. To borrow or raise money necessary to meet the financial requirements of its business by the issuance of bonds, promissory notes and other evidences of indebtedness, and to secure the repayment thereof by mortgage, pledge, deed of trust or lien upon the properties of the corporation or to issue pursuant to law shares of its capital stock, debentures and other evidences of indebtedness in payment for properties acquired by the corporation or for money borrowed in the prosecution of its lawful business;

4. To invest and deal with the moneys and properties of the corporation in such manner as may from time to time be considered wise or expedient for the advancement of its interests and all to sell, dispose of or transfer the business, properties and good will of the corporation or any part thereof for such consideration and under such terms as it shall see fit to accept;

5. To aid any manner any corporation, association, or trust estate, domestic or foreign, or any firm or individual, any shares of stock in which or any bonds, debentures, notes, securities, evidences of indebtedness, contract, or obligations of which are held by or for this corporation, directly or indirectly or through other corporations or otherwise;

6. To enter into any lawful arrangement for sharing profits, union of interest, unitization or farm-out agreement, reciprocal concession, or cooperation with any corporation, association, partnership, syndicate, entity, person or government, municipal or public authority, domestic or foreign, in the carrying on of any business or transaction deemed necessary, convenient, or incidental to carrying out any of the purposes of this corporation;

7. To acquire or obtain from any government authority, national, provincial, municipal or otherwise, or any corporation, company or partnership or person, such charter, contracts, franchise, privileges, exemption, licenses and concessions as may be conducive to any of the objects of the corporation;

8. To establish and operate one or more offices or agencies and to carry on any of all of its operations and business without any restrictions as to place or amount including THE right to hold, purchase, or otherwise acquire, lease, mortgage, pledge and convey or otherwise deal in and with real and personal property anywhere within the Philippines;

9. To distribute the surplus profits of the corporation to the stockholders thereof in kind, namely, properties of the corporation, particularly any shares of stock, debentures or securities of other companies belonging to this corporation; and

10. To conduct and transact any and all lawful business, and to do or cause to be done any one or more of the acts and things herein set forth as its purposes, with or without the Philippines, and in any and all foreign countries, and to do everything necessary, desirable or incidental to the accomplishment of the purposes or the exercise of any one or more of the powers herein enumerated, or which shall at any time apart conductive to or expedient for the protection or benefit of this corporation.

THIRD – That the place where the principal office of the corporation is located at 7th Floor, Two World Square, McKinley Hill, Fort Bonifacio, Taguig City 1634, Philippines (As amended on June 17, 2021).

FOURTH – That the term for which said corporation is to exist is Fifty (50) years from and after the date of incorporation.

FIFTH – That the names, nationalities and residences of the incorporations of said corporation are as follows:

	<u>Nationality</u>	<u>Residence</u>
Benjamin Vera Cruz	Filipino	46 Francisco Cruz St., BF Homes, Paranaque, MM
Fe Vera Cruz	Filipino	46 Francisco Cruz St., BF Homes, Paranaque, MM
Paterno de Guzman	Filipino	31 Riverdale St., St. Ignatius Village, Q.C.
Danilo M. Celestial	Filipino	42 Fordham Street, St. Ignatius Village, Q.C.
Ber Juan Bernabe	Filipino	198 Dr. Natividad Ave., Ibayo-Tipas, Taguig, MM

SIXTH – That the number of directors of said corporation shall be Seven (7) and that the names, nationalities and residences of the directors who are to serve until their successors are elected and qualified as provided by the By-Laws, are as follows (As amended on October 5, 2017).

	<u>Nationality</u>	<u>Residence</u>
Benjamin Vera Cruz	Filipino	46 Francisco Cruz St., BF Homes, Paranaque, MM
Fe Vera Cruz	Filipino	46 Francisco Cruz St., BF Homes, Paranaque, MM
Paterno de Guzman	Filipino	31 Riverdale St., St. Ignatius Village, Q.C.
Danilo M. Celestial	Filipino	42 Fordham Street, St. Ignatius Village, Q.C.
Ber Juan Bernabe	Filipino	198 Dr. Natividad Ave., Ibayo-Tipas, Taguig, MM

SEVENTH – That the capital stock of the Corporation is ONE BILLION FIVE HUNDRED NINETY MILLION PESOS (₱1,590,000,000.00), Philippine currency, and said capital stock is divided as follows (As amended on October 26, 2015 and on December 2, 2016):

1. Twenty Five Million (25,000,000) Class A Common Shares with a par value of Ten Pesos (₱10.00) per share;

2. Ten Million Five Hundred Thousand (10,500,000) Class B Common Shares with a par value of Ten Pesos (₱10.00) per share;

3. Fifty Thousand (50,000) shares of Class A Redeemable Preferred Shares with par value of Two Hundred Pesos (₱200.00) per share;

4. Seven Hundred Thousand (700,000) shares of Class B Redeemable Preferred Shares with par value of One Thousand Pesos (P1000.00) per share; and (As amended on March 14, 2014)

5. Twenty Six Million Two Hundred Fifty Thousand (26,250,000) shares of Class C Redeemable Preferred Shares with par value of Twenty Pesos (P20.00) per share (As amended on October 26, 2015).

That the Class A Redeemable Preferred Shares, Class B Redeemable Preferred Shares and Class C Redeemable Preferred Shares (collectively, the "Redeemable Preferred Shares") shall have the following features.

(a) Voting Rights

All common shares and Redeemable Preferred Shares shall be entitled to vote.

(b) Dividends

The amount equivalent to at least seventy percent (70%) of the corporation's unrestricted retained earnings arising from the after-tax profits of the Company, after provision for any amounts required to be set aside or maintained for reserves of the corporation under the law, and after provision for self-funding as may be required under and approved investment or business plan, will be distributed to the stockholders as dividends based on appropriations approved by the Board of Directors in a meeting duly called for such purpose, in accordance with the shareholder's agreement or similar covenants entered into by the corporation and the stockholders, on the respective terms of the various classes of the shares of the Corporation, the By-Laws, and the Law (As amended on December 2, 2016).

Further, the Parties hereby agree as follows:

(i) A holder of any of Class A Redeemable Preferred Shares and Class B Redeemable Preferred Shares shall be entitled to receive out of the unrestricted retained earnings derived from the Operating Income of the corporation, when and as declared by the Board of Directors, annual dividends thereon at the minimum rate of five percent (5%) per annum of the aggregate par value of such stock or such other rate as may be agreed upon in writing by a holder of the Class A Redeemable Preferred Shares and Class B Redeemable Preferred Shares. The Board of Directors may decide to increase the rate if deemed appropriate and reasonable. Dividends on the Class A Redeemable Preferred Shares and Class B Redeemable Preferred shares shall be cumulative.

(ii) After the dividends (including cumulated dividends) payable to the Class A Redeemable Preferred Shares and Class B Redeemable Preferred Shares under subparagraph (b)(i) above shall have been paid, the holders of the Redeemable Preferred Shares and common shares shall be entitled to receive dividends out of the unrestricted retained earnings of the corporation, when and as declared by the Board of Directors, their prorate share in such earnings, provided that:

56851.0030.0007

(1) the holders of common shares shall be entitled to participate from dividends declared out of the unrestricted retained earnings of the corporation, whether or not such earnings be derived from the Operating Net Income after tax or Non-Operating Net Income after tax, of the corporation.

(2) the holders of Class A Redeemable Preferred Shares and Class B Redeemable Preferred Shares shall be entitled to participate from dividends declared out of unrestricted retained earnings arising or derived from the Non-Operating Net Income after tax of the corporation, but not from unrestricted earnings arising or derived from the Operating Net Income after tax of the corporation;

(3) the holders of Classic C Redeemable Preferred Shares shall be entitled to participate from dividends declared out of unrestricted retained earnings arising or derived from the Operating Income after tax, but not from those arising from the Non-Operating Net Income after tax, of the corporation, provided that for purposes of calculating the dividends payable to the holders of Class C Redeemable Preferred Shares, any Operating Net Income after tax of the corporation shall not be reduced or diminished by losses, financing costs, expenses and other deficit that may arise from the conduct of activities to generate the Non-Operating Income after tax of the corporation. In the event that dividends cannot be declared and paid to any holder of Class C Redeemable Preferred Shares because of the reduction to or limitation in retained earnings of the corporation due to losses, financing costs, expenses and other deficit that may arise from or be incurred because of the conduct of activities to generate the Non-Operating Income after tax of the corporation, any such unpaid amount shall be cumulated and accrued, and paid in subsequent periods, subject to limitations provided by law.

For the purpose of these provisions, the following terms shall have the meanings set out below:

"Operating Net Income after tax" means the net income which may be generated by the corporation in the ordinary operating activities as specified in the primary purpose of the corporation, after deductions of appropriate income tax attributable to this net income before tax. This includes, but is not limited to, the net income generated from the following: (i) raw materials supply, (ii) land foreshore leasing, (iii) tolling arrangements, and (iv) earth-moving activities. This net income shall not be reduced or diminished by losses, financing costs, expenses and other deficit that may arise from or incurred because of the conduct of activities to generate the Non-Operating Net Income after tax of the corporation.

"Non-Operating Net Income after tax" means the net which may be generated by the corporation in the conduct of non-operating activities as stated in the corporation's secondary purposes, after deduction of appropriate income taxes attributable to this net income before tax. This includes, but not limited to, the sale, exchange or disposition of any of the Material Assets,

including those generated from the development and sale of developed land. This net income shall not be reduced or diminished by losses, financing costs, expenses and other deficit that may arise from or incurred because of the conduct of activities to generate the Operating Net Income after tax of the corporation. For this purpose, "Material Assets" means the mining rights and other real properties which the Corporation and/or any of its affiliates presently own and may subsequently acquire, including but not limited to those acquired or may be acquire from Holcim Philippines, Inc. (HPI), or any entity belonging to the HPI group.

(c) Redemption

(i) The corporation shall have the option to redeem all or any portion of the Class A Redeemable Preferred Shares and Class B Redeemable Preferred at a redemption price equivalent to the sum of (1) the original issue price (less any unpaid subscription), and (2) all dividends in arrears (or amounts corresponding to the agreed annual dividends, but which amounts have not been paid, declared or accrued as dividends) and all accrued dividends in respect of such Redeemable Preferred Shares.

(ii) The corporation shall have the option to redeem all or any portion of the Class A Redeemable Preferred Shares and Class B Redeemable Preferred at a redemption price equivalent to the sum of (1) the original issue price (less any unpaid subscription), and (2) all dividends in arrears (or amounts corresponding to the agreed dividends, but which amounts have not been paid, declared or accrued as dividends) and all accrued dividends in respect of such Redeemable Preferred Shares, and (3) amounts corresponding to their share in any undeclared unrestricted retained earnings of the corporation arising out of the Operating Net Income after tax of the corporation, not reduced or diminished by losses, financing costs, expenses and other deficit that may arise from the conduct of activities to generate the Non-Operating Net Income after tax of the Corporation.

(iii) Within ninety (90) days from the occurrence of any Trigger Event (as defined below) (the "Notice Period"), the holders of the Redeemable Preferred Shares shall have the option to require the corporation to redeem such Redeemable Preferred Shares held by such holder by paying therefor in cash an amount (the "Mandatory Redemption Price") equal to: (1) in respect of the Class A Redeemable Preferred Shares and Class B Redeemable Preferred Shares, the issue price (less any unpaid subscription), including all dividends in arrears (or amount corresponding to the annual dividends but which amounts have not been paid, declared or accrued as dividends) in respect of such Redeemable Preferred Share and all accrued dividends thereon; and (2) in respect of the Class C Redeemable Preferred Shares, the sum of (A) the original issue price (less any paid subscription), (B) all dividends in arrears (or amounts corresponding to the agreed dividends, but which amounts have not been paid, declared or accrued as dividends) and all accrued dividends in respect of such Redeemable Preferred Shares, and (C) amounts corresponding to their share in any undeclared unrestricted retained earnings of the corporation arising out of the Operating Net Income after tax of the corporation, not reduced or diminished by losses, financing costs, expenses and other deficit that may arise from the conduct of activities to generate the Non-Operating Net Income after tax of the corporation. The written notice requiring the corporation to redeem the shares (the "Notice of

Redemption") shall be sent to the corporate secretary of the corporation within the notice period or such longer period as the corporation may allow. Any notice of redemption may be revoked by delivery of written notice of such revocation not later than five (5) days prior to the scheduled date of redemption. Subject to applicable law and regulations, the corporation shall pay the holder of the Redeemable Preferred Shares the mandatory redemption price within fifteen (15) days from receipt of the notice of redemption. If less than all the shares of the Redeemable Preferred Shares represented by any certificate are required to be redeemed, the holder thereof shall be entitled to receive new Redeemable Preferred Shares certificate representing the shares which are not required to be redeemed. Redeemable Preferred Shares redeemed shall be deemed cancelled and may not be reissued as new shares or sold as treasury shares.

For purposes of the foregoing paragraph, a "Trigger Event" shall mean the occurrence of any or all of the following events:

(1) It becomes illegal or unlawful for the stockholder to continue owning or holding all or a portion of the Redeemable Preferred Shares, but without prejudice to any agreement among the stockholders to undertake any other in order to address any such illegality; or

(2) The corporation becomes insolvent or commits or permits any act of bankruptcy, which term shall include (i) the filing of a petition in any bankruptcy, winding-up, liquidation, corporate rehabilitation, dissolution, receivership or other proceeding analogous in purposes or effect and the failure by the corporation, as the case may be, to have any such petition discharged within forty five (45) days from notice thereof, (ii) the application for, consent to or failure to consent in a timely and reasonably appropriate manner, the appointment of a receiver, trustee or similar official acting for the benefit of creditors for the bankruptcy, winding-up or liquidation of the corporation or of a substantial portion of its respective properties or assets, (iii) the making by the corporation of a general assignment for the benefit of its creditors, (iv) the admission in writing by the corporation of its inability to pay its debts generally, (v) the passing of a resolution by the corporation approving any winding-up liquidation of, or of a substantial portion of its properties or assets, (vi) the entry of any court order or judgement confirming the bankruptcy or insolvency of the corporation or of a substantial portion of its properties or assets, (vii) any creditor of the corporation exercises a contractual right to assume the financial management of the corporation, (viii) the corporation is unable to pay its debts, stops, suspends or threatens to stop or suspend payment of all or substantially all of its indebtedness, (ix) the corporation begins negotiations for the rescheduling or other readjustment of all substantially all of its indebtedness, or (x) the taking of any corporate action for the purpose of effecting any of the foregoing.

(d) Preference in Liquidation

(i) In the event of any dissolution or liquidation or winding-up, whether voluntarily, of the Corporation, except in connection with a merger or consolidation, the holders of Class A Redeemable Preferred Shares and Class B Redeemable

Preferred Shares shall be entitled to be paid in full, or ratably insofar as the assets of the Corporation will permit, amounts equivalent to the issue price (less any unpaid subscription) of each such Redeemable Preferred Shares including all dividends in arrears (or amounts corresponding to the agreed annual dividends, but which amounts have not been paid, declared or accrued as dividends) and all accrued dividends in respect of such Redeemable Preferred Shares before any distribution shall be made to the holders of the Class C Redeemable Preferred Shares and the common shares.

(ii) After the amounts due to the Class A Redeemable Preferred Shares and Class B Redeemable Preferred Shares shall have been paid in accordance with the preceding paragraph, the holders of the Class C Redeemable Preferred Shares shall be entitled to be paid in full, or ratably insofar as the assets of the corporation will permit the sum of (1) amounts equivalent to the issue price (less any unpaid subscription) of such Redeemable Preferred Shares, (2) all dividends in arrears (or amounts corresponding to the agreed dividends, but which amount have not been paid, declared or accrued as dividends) and all accrued dividends in respect of such Redeemable Preferred Shares, and (3) amounts corresponding to their share in any undeclared unrestricted retained earnings of the corporation arising out of the Operating Net Income after tax of the corporation, not reduced or diminished by losses, financing costs, expenses and other deficit that may arise from or be incurred because of the conduct of activities to generate the Non-Operating Income after tax of the corporation.

(iii) After all the amounts due to the holders of the Redeemable Preferred Shares and Class B Redeemable Preferred Shares shall have been paid in accordance with the sub-paragraphs (i) and (ii) above, the holders of the common shares, Class A Redeemable Preferred Shares and Class B Redeemable Preferred Shares shall be entitled to be paid ratably their pro-rata share (based on the par value of such shares) of any remaining or surplus assets of the corporation left after such payments, without any further participation from the holders of the Class C Redeemable Preferred Shares.

(e) Pre-emptive Rights

(i) The corporation will not issue (i) any additional shares, or (ii) any instrument which by its terms would entitle the holder to participate in the profits of the corporation or in its net assets (after payment and satisfaction of all of its debts and obligations and after returning all fixed amounts payable in respect of the capital of the corporation) upon its winding up, dissolution or any other termination of its corporate existence, other than shares issued in accordance with the provisions of this paragraph (d).

(ii) Except in transfers required by law, before any new shares, options to purchase shares or securities convertible into shares or a particular class of shares ("Additional Shares") may be issued, the corporation must first offer the Additional Shares to the stockholders holding the same class of shares as the Additional Shares by written notice, which notice will include the number of Additional Shares to be issued, and the purpose for which the capital raised by the subscription for the Additional Shares will be used. Each stockholder holding the same class of shares as

the Additional Shares will have the right to subscribe for a proportionate number of such particular class of Additional Shares, based upon the number of shares owned by a stockholder as at the date notice is given of the offer. (As amended on December 2, 2016).

(iii) Any additional Shares not subscribed by a stockholder pursuant to paragraph d(ii) will be proportionally offered to the other stockholders on the same terms and any remaining Additional Shares will be issued and paid up in accordance with those terms.

(iv) Payment in respect of any Additional Shares will be made in full by the subscribing stockholder on the date indicated in the subscription agreement.

(v) If any stockholder is prevented by law from increasing its shareholding in the corporation, it may, for purposes of exercising its rights under paragraph d(ii) or d(iii), designate as Affiliate or an Eligible Person but only, in the latter case, if required by the law, and with the prior written consent of HPI (if the stockholder is a member of the HPI RF Group) or HPI RF (if the stockholder is a member of the HPI Group) to acquire the Additional Shares. Any such Affiliate or Eligible Person will be required to become a party to any shareholder's agreement or similar covenants entered into by the corporation and the stockholders, by executing a deed of accession, and have similar rights and obligations as the nominating stockholder would have had with respect to such Additional Shares, and the nominating stockholder will remain jointly and severally liable with the Affiliate or Eligible Person for the due performance and observance of all obligations under any shareholder's agreement or similar covenants entered into by the corporation and the stockholders. Any subsequent Transfer of shares by the Affiliate or Eligible Person will be subject to the restrictions on Transfer contained in any shareholder's agreement or similar covenants entered into by the corporation and the stockholders.

(vi) If a stockholder, having committed to subscribe for Additional Shares to be issued by the corporation in accordance with this paragraph (d), fails to pay for the Additional Shares in accordance with the terms prescribed by the corporation, the provisions of the relevant subscription agreement, any shareholder's agreement or similar covenants entered into by the corporation and the stockholder's, and the law, the other stockholders will have the proportionate right, but not the obligation, to make the non-paying stockholder's payment and take the Additional Shares which would have been subscribed by such non-paying stockholder. (As amended on October 26, 2015).

EIGHT – That the amount of said capital stock has been actually subscribed is Two Hundred Fifty Thousand Pesos (P250,000.00) Philippine currency, and the following persons have subscribed for the number of shares and the amount of capital stock indicated opposite their respective names:

<u>Name</u>	<u>Residence</u>	<u>No. of Shares Subscribed</u>	<u>Amount of Capital Stock Subscribed</u>
Benjamin Vera Cruz	46 Francisco Cruz St., BF Homes, Paranaque, MM	12,500	P 25,000.00
Fe Bera Cruz	46 Francisco Cruz St., BF Homes, Paranaque, MM	2,500	25,000.00
Paterno de Guzman	31 Riverdale St., St. Ignatius Village, Q.C.	7,500	75,000.00
Danilo M. Celestial	42 Fordham Street, St. Ignatius Village, Q.C.	1,250	12,500.00
Ber Juan Bernabe	198 Dr. Natividad Ave., Ibayo-Tipas, Taguig, MM	1,250	12,500.00
Total		25,000	P250,000.00

NINTH – That the following persons have paid on the shares of capital stock for which they have subscribed, the amounts set out after their respective names:

<u>Name</u>	<u>Nationality</u>	<u>Amount Paid on Subscription</u>
Benjamin Vera Cruz	Filipino	P 50,000.00
Fe Vera Cruz	Filipino	10,000.00
Paterno de Guzman	Filipino	30,000.00
Danilo M. Celestial	Filipino	5,000.00
Ber Juan Bernabe	Filipino	5,000.00
Total		P100,000.00

TENTH – That no issuance or transfer of shares of stock of the corporation which would reduce the stock ownership of Filipino citizens to less than the minimum percentage of the outstanding capital stock required by law to be owned by Filipino citizens, shall be allowed or permitted to be recorded in the books of the corporation. This restriction shall be printed or indicated in all the certificates of stock to be issued by the corporation.

ELEVENTH – That Paterno De Guzman has been elected by the subscribers as Treasurer of the Corporation to act as such until his successor is duly elected and shall I have qualified in accordance with the by-Laws, and that as such Treasurer, he has been authorized to receive for the corporation, and to issue in its name Treasurer, he has been authorized to receive for the corporation, and to issue in its name receipts for, all subscriptions paid in by the subscribers.

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TWELFTH – The capital stock of said corporation shall be subject to the following restrictions:

(a) General Restrictions

(1) No stockholder will Transfer any shares or rights in shares except as expressly permitted by and in accordance with the other provisions of Articles of Incorporation, the By-Laws, and any shareholder's agreement and similar covenants entered into by the corporation and the stockholders.

(2) Any attempt Transfer by any shares, or rights in such shares, which is not in compliance with all of the provisions of the Shareholders Agreement, the Articles of Incorporation and/or the By-Laws and any shareholder's agreement or similar covenants entered into by the corporation and the stockholders will be null and void, and the corporation will not record the Transfer on its book and records.

(b) Transfer of Shares to Eligible Affiliate

(1) Subject to the provisions of paragraph (b) below, each stockholder may, at any time, Transfer some or all of its shares to one of its Affiliates; provided that the transferring stockholder shall give notice to the other stockholders at least thirty (30) days prior to the Transfer and or prior to the effectivity of the Transfer, the Transferee executes and delivers to each stockholder and the corporation a deed of accession, and enters into such related agreements as HPI RF (if a member of the HP Group is the Transferor) or as HPI (if a member of the HPI RF Group is the Transferor) reasonably requires, and provided, further, that the Transferor remains a party to any shareholders agreement or similar arrangements executed by the Transferor with the corporation and the other stockholders, and will jointly and severally liable for the due performance and observance of the obligations of the Transferee under the terms of such shareholders agreement and arrangements, and all related agreements.

(2) Before the completion of any transaction as a result of which an Affiliate that owns shares will cease to be an Affiliate of the Transferor, the Shares Transferred to any such Affiliate will be Transferred back to the Transferor or to another Affiliate of the Transferor.

(c) Transfer of Shares to Third Parties and Right of First Refusal

(1) If any member of the HPI Group (the "Proposed Transferor") desires to Transfer all or any portion of its shares to another person (the "Proposed Transferee") other than to an Affiliate, HPI will immediately give notice in writing ("Transfer Notice") to HPI RF (the "Offeree") specifying the identity of the Proposed Transferee, the price at which all members of the HPI Group are willing to Transfer all of their shares to the Proposed Transferee, as well as the terms and conditions of the proposed Transfer.

Similarly, if any member of the HPI RF Group (the "Proposed Transferor") desires to Transfer all or any portion of its shares to a Proposed Transferee other than to an Affiliate, HPI RF will immediately give a Transfer Notice to HPI (the "Offeree"), specifying the identity of the Proposed Transferee, the price at which all members of

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the HPI RF Group are willing to Transfer all of their shares to the Proposed Transferee, as well as the terms and conditions of the proposed Transfer

In each case mentioned in this paragraph (c)(1), the Offeree may require from the Proposed Transferor proof of a definite and binding offer from the Proposed Transferee and the provisions of paragraph (c)(2) and (3) below and paragraph (g) below will apply.

(2) Within a period of thirty (30) days following receipt of the Transfer Notice, the Offeree will have the right to elect to purchase all of the Proposed Transferor's Shares on the same terms and conditions as those to be entered into with the Proposed Transferee. If the Offeree exercises its right to purchase the shares, the Transfer to the Offeree will close within the next following thirty (30) days (unless extended by mutual agreement of the Proposed Transferor and the Offeree), subject to the provisions of paragraph (g) below. Failure of the Offeree to reply within the thirty (30)-day period referred to in the first sentence of this paragraph will be deemed as an implied approval of the transfer of the Shares from the Proposed Transferor to the Proposed Transferee.

(3) If the Offeree declines to exercise its right to purchase the Proposed Transferor's Shares as described above, the Proposed Transferor may Transfer the Shares to the Proposed Transferee, subject to the following conditions:

i. the terms and conditions of the Transfer are no more favorable to the Proposed Transferee than the terms and conditions stated in the Transfer Notice;

ii. the Proposed Transferee must be an Eligible Person that possesses all the minimum eligibility requirements as may be imposed by the Board; provided that if HPI or any member of the HPI Group shall not be qualified to hold directly the Proposed Transferor's Shares, HPI or any relevant member of the HPI Group shall be permitted to appoint or designate a qualified buyer or designee who shall become the Proposed Transferee for the purpose of this provision;

iii. subject to the provisions of paragraph (g) below, the Treasurer must close within ninety (90) days after the receipt by the Offeree of the Transfer Notice;

iv. the Transfer must be in accordance with all applicable laws;

v. the Proposed Transferee must execute and deliver to each other stockholder and the corporation a deed of accession; and

vi. the Proposed Transferor must use its best endeavors to ensure that the business will not be interrupted as a result of the Transfer.

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Page 15 of 24 pages
28 MAR 2022
Certified by R. ANTONIO Date Issued

(d) Transfer Required by Law

If HPI and/or HPMC will be required by law to decrease its shareholding in the corporation. It will reduce its shareholding to the extent so required and may for this purpose designate an Affiliate or an Eligible Person to hold its shares or any portion thereof. Any such Affiliate or Eligible Person (as the case may be) will be required to become a party to any shareholders agreement or similar arrangements entered into by the corporation and the stockholders, by executing a deed of accession, and will have similar rights and obligations as the Transferring Shareholder would have had, and the Transferring stockholders will remain jointly and severally liable with such Affiliate or Eligible Person (as the case may be) for the due performance and observance of all obligations under such shareholders agreement or similar arrangements. Any subsequent Transfer of shares by the Affiliate or Eligible Person (as the case may be) will be subject to all restrictions on Transfer contained in any shareholders agreement or similar arrangement entered into by the corporation and the stockholders.

(e) Pledge

No stockholder will, without the prior written consent of HPI (if such stockholder is a member of the HPI RF Group), or the prior written consent of HPI RF (if such stockholder is a member of the HPI RF Group), pledge, create any encumbrance, or agree to pledge or create any encumbrance, or otherwise use, or agree to use, its shares in any manner as collateral for any purpose, including by way of encumbrance. Such pledge or encumbrance or agreement to pledge or create any encumbrance will be null and void. Any stockholder making a pledge in violation of this paragraph will keep the other stockholders, its representatives, successors, and assigns, free and harmless from any and all suits and/or claims for damages arising from the pledge.

(f) Endorsement of Share Certificates

Upon the execution of any shareholders agreement or similar covenants entered into by the corporation and the stockholders or as soon as possible under all applicable laws, all certificates evidencing the shares will be endorsed as follows:

ANY SALE, ASSIGNMENT, TRANSFER, PLEDGE OR OTHER DISPOSITION OF THE SHARES OF STOCK REPRESENTED BY THIS CERTIFICATE IS RESTRICTED BY AND SUBJECT TO THE FOLLOWING TERMS AND CONDITIONS:

and citing all of the provisions of paragraphs (c), (d), (e) mentioned above, as well as any other provisions required to be cited in such certificates by any shareholders agreement or similar covenants entered into by the corporation and the stockholders.

(g) Conditions to All Transfers

Any Transfer of shares or any rights in shares will be subject to all the terms and conditions of any shareholders agreement or similar covenants entered into by the corporation and the stockholders and the fulfillment of each of the following conditions at or prior to the completion of the Transfer:

(1) The Transferee will have adopted and agreed in writing to be bound by all of the terms and conditions of any shareholder's agreement or similar covenants entered into by the corporation and the stockholders, and agreed to pay all reasonable legal expenses incurred by the corporation in the preparation of all documents and instruments necessary to effect such transaction and to amend the such shareholders agreement, if required;

(2) The Transferee will have acknowledged and expressly agreed to assume all liabilities and obligations of the Transferor under any shareholders agreement or similar covenants entered into by the corporation and its other stockholders to the extent of the shares Transferred;

(3) Other than in the case of a Transfer of all of the shares to either the HPI Group or the HPI RF Group, the Transferor will remain bound by its obligations under the terms of any shareholders agreement or similar covenants entered into by the corporation and the other stockholders, and related agreements arising on or before the date of the Transfer;

(4) All approvals required by the stockholders and by all appropriate government authorities, under any contracts or related agreements, or pursuant to the law will have obtained;

(5) The Transfer will not violate or constitute or result in an event of default, or result in acceleration of any indebtedness, under any note, mortgage, loan, contract or similar instrument or document to which the corporation is a party; and

(6) The Transfer will not violate, and will be in full compliance with, the law any and orders of any governmental authority applicable to the corporation or any stockholder or prospective stockholder. No Transfer will be completed if the resulting ownership structure is in violation of applicable law, and no Transfer will become effective unless and until any and all required government approvals have been obtained in form and substance reasonably acceptable to the Parties. Whenever such government approval is required, the periods of time within the Transfer must close will be extended to the time at which such government approval is obtained or denied, provided that all other conditions precedent to the Transfer have been met on a timely basis.

(h) Terms

For the purposes of these provisions, the following terms shall have the meanings set out below:

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"Affiliate" means, in relation to any specified person, any other person that directly or indirectly controls is under the control of, or is under common control with, that where "control" means either: (i) the ownership, either directly or indirectly, of more than fifty percent (50%) of the voting shares of a corporation or (ii) the right to elect the majority of the directors or other governing body of a corporation or other legal entity, where that control may be exercised without the consent of any third person.

"Conditions to All Transfers" means any Transfer of shares or any rights in shares will be subject to the terms and conditions of any existing shareholders agreement among the stockholders and the fulfillment of each of the following conditions at or prior to the completion of the Transfer:

a) The Transfer will have adopted and agreed in writing to be bound by all of the terms and conditions of any agreement among the stockholders and agreed to pay all reasonable legal expenses incurred by the corporation in the preparation of all documents and instruments necessary to effect such transaction and to amend any such stockholders agreement, if required;

b) The Transfer will have acknowledged and expressly agreed to assume all liabilities and obligations of the Transferor under existing shareholders agreement among the stockholders to the extent of the shares transferred;

c) All approvals required by the stockholders and by all appropriate government authorities, under any relevant contract, or pursuant to the law will have been obtained;

d) The Transfer will not violate or constitute or result in an event of default, or result in an acceleration of any indebtedness, under any note, mortgage, loan contract or similar instrument or documents to which the corporation is a party; and

e) The Transfer will not violate, and will be in full compliance with law and with any orders of any governmental authority to the corporation or any stockholder or prospective stockholder. No Transfer will be completed if the resulting ownership structure is in violation of applicable law, and no Transfer will become effective unless and until any and all required government approvals have been obtained. Whenever such government approval is required, the periods of time within which the Transfer must close will be extended to the time at which such government approval is obtained or denied, provided that all other conditions precedent to the Transfer have been met on a timely basis. (As amended on December 2, 2016).

"Eligible Person" means a person that (i) is, in the reasonable opinion of HPI RF (where the shares to be transferred are held by a member of the HPI Group) or in the reasonable opinion of HPI (where the shares to be transferred are held by a member of the HPI RF Group), financially sound; and (ii) is otherwise acceptable to HPI RF acting reasonably (where the Shares to be Transferred are held by a member of the HPI Group) or to HPI acting reasonably (where the shares to be transferred

are held by a member of the HPI RF Group), and in all cases, legally qualified to hold Shares.

"HPI" means Holcim Philippines, Inc.

"HPMC" means Holcim Philippines Manufacturing Corporation.

"HPI Group" means (i) HPI, (ii) HPI's and HPMC's Affiliates (but excluding HPI RF), and (iv) any Eligible Person to which any of the Persons referred to in (i), (ii) and (iii) has Transferred Shares.

"HPI-Related Agreements" means any one of the following agreements which the corporation or any of the corporation's Affiliates has entered into and/or may subsequently enter into with HPI Affiliates, or any third party service provider acceptable to HPI in furtherance of the business of the corporation, as such agreements may be amended from time to time.

"HPI RF" means Holcim Philippines, Inc. Retirement Fund

"Material Assets" means the mining rights and other real properties which the corporation and/or any of its Affiliates presently own and may acquire subsequently, including but not limited to those acquired or may be acquired from HPI, or any entity belonging to the HPI Group. "Material Assets" shall also include shares of the corporation's Affiliates.

"Transfer" means the sale, assignment, transfer, gift, pledge, hypothecation or Encumbrance of assets, or the permission or sufferance of the attachment of a security interest in such assets. The terms "Transferor" and "Transferee" have correlative meanings. (As amended on October 26, 2015).

IN WITNESS WHEREOF, we have hereunto set our hands, this 4th day of September, 1987 at Makati, Metro Manila, Philippines.

(SGD)
BENJAMIN VERA CRUZ TAN
V6267-K1037-A-O

(SGD.)
FE VERA CRUZ
(Wife of Benjamin)

(SGD.)
PATERNO DE GUZMAN TAN
D2252-A0440-A-I

(SGD.)
DANILO M. CELESTIAL TAN
C4239-F2539-A-2

(SGD)
BER JUAN BERNABE TAN
B6513-G1725-A-9

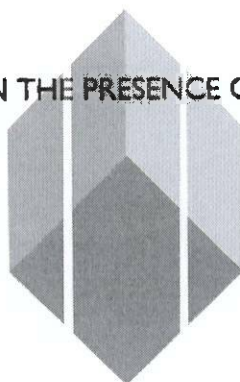
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SIGNED IN THE PRESENCE OF:

(SGD.)
LYDIA V. ROLDAN



(SGD.)
M.C. MARCELINO
Securities and
Exchange
Commission
PHILIPPINES

ACKNOWLEDGMENT

REPUBLIC OF THE PHILIPPINES)
METROPOLITAN MANILA)S.S.

BEFORE ME a Notary Public and in Makati, Metro Manila, Philippines. This 4th day of September, 1987 personally appeared:

<u>Name</u>	<u>Comm. Tax Cert. No.</u>	<u>Date & Placed Issued</u>
Benjamin Vera Cruz	202081	04-09-87/Paranaque, MM
Fe Vera Cruz	-do-	-do-
Paterno de Guzman	2032129	04-14-87/Makati, M. Mla
Danilo M. Celestial	6340217	03-03-87/Makati, M. Mla
Ben Juan Bernabe	7006617-F	02-27-87/Pasig, M. Mla.

all known to me and to me known to be the same persons who executed the foregoing Articles of Incorporation and they acknowledged to me that the same is their free and voluntary act and deed.

IN WITNESS WHEREOF, I have hereto set my hand and affixed my notarial seal on the date and place first above written.

Doc. No. 456;
Page No. 93;
Book No. I;
Series of 1987.

(SGD.) NAPOLEON R. RAMOLETE
Notary Public
Expires Dec. 31, 1988
No. 007529
On February 6, 1987
At Makati, Metro Manila

Date: 2022-03-25 Time: 08:18:52 AM



DIRECTORS' CERTIFICATE OF AMENDMENT
OF THE ARTICLES OF INCORPORATION

HOLCIM MINING AND DEVELOPMENT CORPORATION



KNOW ALL MEN BY THESE PRESENTS:

We, the undersigned, constituting a majority of the members of the Board of Directors and the Corporate Secretary of **HOLCIM MINING AND DEVELOPMENT CORPORATION** (the "Corporation"), a corporation duly organized and existing under Philippine laws, with Securities and Exchange Commission ("SEC") Registration No. 144982 and with business address at 7th Floor, Two World Square, McKinley Hill, Fort Bonifacio, Taguig City 1634, Philippines;

(1) The accompanying documents, attached as Annex "A" is a true and correct copy of the Amended Articles of Incorporation of the Corporation, embodying the amendment to the Articles I and III of its Articles of Incorporation to change the name and principal address of the Corporation.

(2) A joint annual meeting of the stockholders and organizational meeting of the members and the Board of Directors was held on June 17, 2021 through videoconference, for the purpose of approving the amendment to Articles I and III of the Articles of Incorporation of the Corporation.

(3) During the aforesaid joint meeting, all the members of the Board of Directors and stockholders of the Corporation were present either in person or by proxy.

(4) At the joint meeting, and upon motion duly made and seconded, the following resolutions were adopted by all members of the Board of Directors and stockholders of the Corporation:

"RESOLVED, That the Board of Directors and stockholders of **HOLCIM MINING AND DEVELOPMENT CORPORATION** ("Corporation") approve, as they hereby approve, the amendment to the Articles I and III of the Articles of Incorporation;

RESOLVED, FURTHER, That pursuant to the foregoing, the Article I of the Articles of Incorporation of the Corporation be amended as follows:

Date: 2022-03-25 Time: 08:18:52 AM



56331.0030.0023

FIRST - That the name of this corporation shall be:

Helix Mining and Development Corporation

RESOLVED, FURTHER, That pursuant to the foregoing, the Article III of the Articles of Incorporation of the Corporation be amended as follows:

THIRD - That the principal office of the corporation is located at 7th Floor, Two World Square, McKinley Hill, Fort Bonifacio, Taguig City 1634, Philippines

RESOLVED FINALLY, That the officers of the Corporation be authorized to sign, execute and deliver any and all agreements and documents and perform all acts necessary and desirable, for and on behalf of the Corporation, in order to effectuate the foregoing resolution."

(5) This Certificate is issued for purposes of submission to the Securities and Exchange Commission for approval of the above-stated amendment to the Corporation's Amended Articles of Incorporation and for such other legal purposes it may serve.

[Signature page follows]



56331.0030.0024



IN WITNESS WHEREOF, we have hereunto set our hands this __ day of October 2021 in Makati City, Philippines.


RENATO A. BALA
Director
TIN: 913-995-151


GERARD MARTIN F. ABAD
Director
TIN: 109-933-566


ZOE M. SIBALA
Director
TIN: 182-480-229


MICHAEL A.S. YUSON
Director
TIN: 189-483-152


LAMBERTO M. SANTOS, JR.
Director
TIN: 107-042-660


HORIA C. ADRIAN
Director
TIN: 600-061-507

ELIANA NIETO SANCHEZ
Director
TIN: 600-498-834

ACKNOWLEDGMENT

REPUBLIC OF THE PHILIPPINES
MAKATI CITY


)
) S.S.

Securities and
Exchange
Commission

SUBSCRIBED AND SWORN to before me this 08 DEC 2021 at
Makati City, Philippines, affiants exhibiting to me their identification cards as
competent proof of their identities:

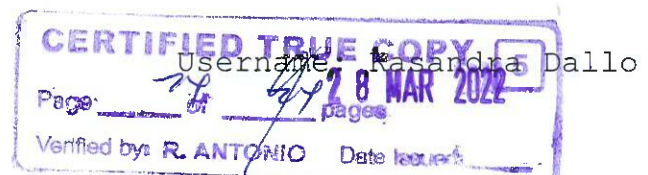
Name	Competent Evidence of Identity	Date/Place Issued
Renato A. Baja	Driver's License No. M02-94-024956	Valid until July 14, 2022; Land Transportation Office
Gerard Martin F. Abad	Driver's License No. N02-87-072922	Valid until November 16, 2021; Land Transportation Office
Michael A.S. Yuson	Voter's ID No. 7602-0281B-F0271MAY10000-B	Commission on Elections, Makati
Zoe M. Sibala	Philippine Passport No. P8570603A	September 1, 2018; DFA Manila
Lambert M. Santos	Tax Identification Number 107-042-660	
Horia C. Adrian	Romanian Passport No. 056390642	August 22, 2018; Romania
Eliana Nieto Sanchez	Republic of Colombia Passport No. AU876069	June 11, 2018; Republic of Colombia
Euney Marie J. Mata-Perez	Philippine Passport No. P4379278B	January 12, 2020; DFA NCR South

Doc. No. 423;
Page No. 86;
Book No. II;
Series of 2021.


AZIZA HANNAH A. BAGAY
Appointment No. M-256
Notary Public for Makati City
Until December 31, 2021

Unit 15A, ACT Tower, 135 H.V. Dela Costa St.,
Salcedo Village, Makati City 1226
Roll of Attorneys No. 72146
IBP No. 141170/PPLM /01-04-2021
PTR No. 8531111/Makati City/01-04-2021

Date: 2022-03-25 Time: 08:18:52 AM





Republic of the Philippines
Department of Environment and Natural Resources
Visayas Avenue, Diliman, Quezon City
Tel. Nos. (632) 829-66-29 to 29 • (632) 829-62-62
829-66-20 • 829-66-33 to 35
829-70-41 to 43

IN RE : December 16, 2013 *Deed of Assignment with
Subscription Agreement* and
October 27, 2015 *Amendment to the Deed of
Assignment with Subscription Agreement*
Executed By and Between Holidm
Philippines, Inc. and Holidm Mining and
Development Corporation Involving Mineral
Production Sharing Agreement
No. 274-2008-XI (Amended)

ORDER

WHEREAS, on November 27, 2008, the Philippine Government, thru the Department of Environment and Natural Resources (DENR), and Holidm Philippines, Inc. (HPI) executed Mineral Production Sharing Agreement (MPSA) No. 274-2008-XI covering the contract area of 642.1537 hectares situated in Davao City;

WHEREAS, the said MPSA grants HPI the exclusive right to explore, develop and commercially utilize limestone, shale and other associated mineral deposits that may be discovered within the contract area for a term of 25 years and renewable for another term not exceeding 25 years;

WHEREAS, on December 16, 2013, the *Deed of Assignment with Subscription Agreement* (DoA) was executed by and between HPI and Holidm Mining and Development Corporation (HMDC) wherein the former assigns to the latter all its rights and interest in MPSA No. 274-2008-XI and MPSA applications denominated as APSA-000107-XI and APSA-032-XII-1997, among others;

WHEREAS, on June 26, 2014, the said DoA was registered in MGB Regional Office (RO) No. XI;

WHEREAS, on May 24, 2013 and May 11, 2015, HPI applied for the expansion of the area of MPSA No. 274-2008-XI by annexing the areas of APSA-000107-XI and APSA-032-XII-1997 covering 339.3021 and 425.1148 hectares located in Davao City and Massim, Sarangani, respectively, pursuant to the pertinent provisions of Executive Order No. 79 and its Implementing Rules and Regulations;

WHEREAS, on July 14, 2015, the said area expansion of MPSA No. 274-2008-XI was approved by the DENR and, consequently, the said MPSA was redominated as MPSA No. 274-2008-XI (Amended);

WHEREAS, on October 27, 2015, the *Amendment to the Deed of Assignment with Subscription Agreement* (Amendment) was executed by and between HPI and HMDC, which includes, among others, the proviso that "HMDC shall undertake, as it hereby undertakes to fulfill any and all of HPI's obligations under the MPSAs, upon approval by the Secretary of the Department of Environment and Natural Resources ...";

WHEREAS, on November 11, 2015, the Amendment was registered in MGB RO No. XI;

WHEREAS, Section 40 of DENR Administrative Order (DAO) No. 2010-21¹ provides that any assignment of rights and obligations under any Mineral Agreement shall be subject to the approval of the Secretary upon the recommendation of the MGB Director;

¹ Revised Implementing Rules and Regulations of R. A. No. 7942, otherwise known as the Philippine Mining Act of 1995.

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W-114782

WHEREAS, MGB RO No. XI, thru its Memorandum dated November 26, 2015, forwarded to the MGB Central Office the DoA and Amendment, for approval, pursuant to the provisions of Section 46 of DAO No. 2010-21;

WHEREAS, the MGB Director has recommended the approval of the assignment of MPSA No. 274-2008-XI (Amended) from HPI to HMDC pursuant to the DoA and Amendment, thru the Memorandum dated December 7, 2015;

WHEREAS, the verification of pertinent records shows that:

1. The DoA and Amendment includes the proviso that the Assignee shall assume all the Assignor's obligations under the MPSA;
2. HMDC is a Filipino corporation duly organized and existing under and by virtue of the laws of the Republic of the Philippines, and is duly registered in the Securities and Exchange Commission on October 5, 1987;
3. HMDC meets the eligibility requirements as Assignee of MPSA No. 274-2008-XI (Amended) pursuant to the pertinent provisions of DAO No. 2010-21;
4. HMDC conforms to the condition that the MPSA shall automatically terminate upon field verification in case of violation(s) of any of the terms and conditions thereof; and
5. MGB RO No. XI, thru the Certification issued on November 25, 2015, attests that *"there has been no dispute nor opposition filed with this Office against the transfer/assignment of the foregoing MPSAs as of today."*

WHEREAS, the execution of the DoA and Amendment, and the subsequent endorsement thereof by the MGB Director are in accordance with the provisions of DAO No. 2010-21, and other applicable provisions of Republic Act No. 7942, the Philippine Mining Act of 1995;

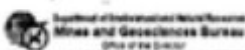
WHEREFORE, the foregoing premises considered, the assignment of the Mineral Production Sharing Agreement No. 274-2008-XI (Amended) by Holcim Philippines, Inc. to Holcim Mining and Development Corporation pursuant to the Deed of Assignment with Subscription Agreement dated December 16, 2013 and Amendment to the Deed of Assignment with Subscription Agreement dated October 27, 2015 is hereby **APPROVED**. Consequently, Mineral Production Sharing Agreement No. 274-2008-XI (Amended) shall now be recorded in the name of Holcim Mining and Development Corporation.

SO ORDERED.

Quezon City, Philippines, 17 DEC 2015

By Authority of the Secretary:


LEO L. JASARENO
Director
Mines and Geosciences Bureau





Republic of the Philippines
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
Sarangani Bay Protected Seascape
PROTECTED AREA MANAGEMENT BOARD
PENRO XII-3, Alabel, Sarangani province
Tel. No. (083) 504-2009



CERTIFICATION

TO WHOM IT MAY CONCERN:

THIS IS TO CERTIFY that **MR. JOEL G. BADANG** proponent of **HOLCIM NINDIGAN DEVELOPMENT CORPORATION** located at Brgy. Tinoto, Maasin, Sarangani Province has applied for PAMB Clearance pursuant to DAO 2007-17 as amended by DAO 2018-05 dated March 15, 2018 consistent with the provisions of R.A 7586 as amended by R.A 11038 or the Expanded National Integrated Protected Area System (E-NIPAS) Act of 2018.

This certifies further that the proponent has submitted its application documents and has been deliberated by the PAMB Technical Working Committee and DENR Technical Working Group with the following findings and recommendation:

1. That the proposed activity/project is outside the area of Sarangani Bay Protected Seascape;
2. That the proponent is not required to apply for Special Use Agreement in Protected Area;
3. That the issuance of this certification does not exempt the proponent from securing PAMB Clearance if they wish to undertake activities within SBPS area including the utilization or extraction of natural resources.

Certifying, furthermore, that this is issued to the effect only of the lawfulness of the development project to be carried out in accordance with the provisions of Presidential Proclamation 756, Republic Act No. 7586 (NIPAS Act of 1992) as amended by RA 11038 (Expanded NIPAS Act of 2018), Republic Act No. 9275 (The Clean Water Act of 2004), Republic Act No. 8749 (The Clean Air Act of 1999), PD 1586 (The Environmental Impact Statement System) and all other applicable environment and natural resources laws and all their Implementing Rules and Regulations.

This certification shall not be construed as authority to ~~materially change~~ the specified use without any permit therefor from the PAMB and shall ~~support their application for an issuance of~~ Environmental Compliance Certificate (ECC) at the EMB Region XII, ~~Koronadal City pursuant to SBPS-PAMB Resolution No. 2017-020, series of 2017.~~

Issued this 27th day of AUGUST, 2020 at the Protected Management Office of SBPS, PENRO Alabel, Sarangani Province.

JOY A. OLOGUIN

Supervising EMS/PA Superintendent

Certification Fee: P100.00
Documentary Stamp: P30.00
Official Receipt No. 3146335/3166320
Date Issued: 08/27/2020
Issued at: POB, ALABEL, SARANGANI PROVINCE

Photo Documentation:

Station 1



Station 2



Station 3



Station 4





Republic of the Philippines
Department of Environment and Natural Resources

Visayas Avenue, Diliman, Quezon City, 1100
Tel Nos. (632) 929-66-28 to 29 • (632) 929-62-52
929-66-20 • 929-66-33 to 35
929-70-41 to 43

IN RE: APPLICATION OF HOLCIM PHILIPPINES, INC.
FOR AREA EXPANSION INVOLVING MINERAL
PRODUCTION SHARING AGREEMENT NO.
274-2008-XI AND APPLICATIONS FOR
MINERAL PRODUCTION SHARING
AGREEMENT DENOMINATED AS APSA-
000107-XI AND APSA-032-XII-1997



ORDER

WHEREAS, Section 7 of Department of Environment and Natural Resources (DENR) Administrative Order (DAO) No. 2012-07, the Implementing Rules and Regulations of Executive Order (EO) No. 79, provides that *"No new mineral agreements shall be entered into until a legislation rationalizing existing revenue sharing schemes and mechanisms shall have taken effect: Provided, that any expansion of existing contract areas shall not exceed the maximum hectareage per province set by the Philippine Mining Act of 1995..."*

WHEREAS, the Mining Industry Coordinating Council issued Resolution No. 5 on March 4, 2015 transferring from its Technical Working Group on Environmental Protection and Legislation to DENR-Mines and Geosciences Bureau the function of validating applications for expansion of existing mining areas, including the field verification and subsequent approval of the pertinent application;

WHEREAS, thru the Letters of May 24, 2013 and May 11, 2015, Holcim Philippines, Inc. applied for the expansion of the area under Mineral Production Sharing Agreement (MPSA) No. 274-2008-XI covering 642.1537 hectares located in Davao City by annexing the areas covered by its MPSA applications denominated as APSA-000107-XI and APSA-032-XII-1997 covering 339.3021 and 425.1146 hectares located in Davao City and Maasim, Sarangani, respectively, pursuant to the pertinent provisions of EO No. 79 and its Implementing Rules and Regulations;

WHEREAS, HPI has substantially complied with the pertinent requirements for area expansion, including the required validation, pursuant to the pertinent provisions of EO No. 79 and its Implementing Rules and Regulations;

WHEREFORE, the foregoing premises considered, the Mineral Production Sharing Agreement No. 274-2008-XI granted to Holcim Philippines, Inc. is hereby **expanded** by annexing the areas covered by the applications for Mineral Production Sharing Agreement denominated as APSA-000107-XI and APSA-032-XII-1997, under the same terms and conditions provided for under Mineral Production Sharing Agreement No. 274-2008-XI and the existing applicable laws, rules and regulations.

SO ORDERED.

Quezon City, Philippines, 14 JUL 2015

By Authority of the Secretary:


LEO L. JASARENO
Director
Mines and Geosciences Bureau

CERTIFIED TRUE COPY


EDGARDO D. CASTILLO
OFFICER-IN-CHARGE
MINING TENEMENTS MANAGEMENT DIVISION

Let's Go Green!

0-0 10 P 7 78





Republic of the Philippines
Province of Sarangani
Municipality of Maasim



BARANGAY KAMANGA

OFFICE OF THE SANGGUNIANG BARANGAY

EXCERPT FROM THE MINUTES OF THE 8th REGULAR SESSION OF THE
SANGGUNIANG BARANGAY OF KAMANGA, MAASIM, THIS MUNICIPALITY,
HELD ON AUGUST 01, 2018, KAMANGA, MAASIM SARANGANI PROVINCE.

PRESENT:

HON. ROSADELIMA N. MANGELEN
HON. DAISY C. ISHMAEL
HON. MOHMEN J. MANGELEN
HON. TOMAS M. TANGCONG
HON. AURELIA D. MACAGCALAT
HON. ISRAEL M. BUGHAW
HON. JOEL A. AMADORA
HON. PAULO JAMES I. REPOLIDO
HON. ANJOE BATUAN
HON. ANGELITO A. PIANG

-PUNONG BARANGAY/PRESIDING
-BARANGAY COUNCILOR
-BARANGAY COUNCILOR
-BARANGAY COUNCILOR
-BARANGAY COUNCILOR
-BARANGAY COUNCILOR
-BARANGAY COUNCILOR
-BARANGAY COUNCILOR
-SK CHAIRMAN
-BARANGAY COUNCILOR

ABSENT-NONE

RESOLUTION 2018-013

A BARANGAY RESOLUTION INTERPOSING NO OBJECTION OF THE HOLCIM
MINING AND DEVELOPMENT CORPORATION FOR THE LIMESTONE QUARRY
PROJECT, LOCATED AT BARANGAY KAMANGA, MAASIM, SARANGANI
PROVINCE.

Authored and Sponsored by HON. JOEL A. AMADORA

WHEREAS, the HOLCIM MINING AND DEVELOPMENT CORPORATION - a
recognized business incorporators, duly registered by the Security and Exchange Commission
(SEC) with SEC Reg. No. CS 144982, as adopted on October 26, 2015 (as per copy of S.E.C
Certificate of filing amended Articles of Incorporation).

WHEREAS, the HOLCIM MINING AND DEVELOPMENT CORPORATION with business
address at KM.21, Budbud, Brgy. Bunawan, Bunawan District and holding a Business License
with Permit No. B-13823-1, issued by the Business Permit and License Division- Office of the
City Mayor at the City of Davao, Province of Davao Del Sur.

WHEREAS, the operation of Limestone Quarry Project having a total of 425.1146 hectares of
land.

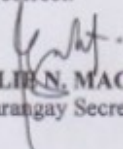
NOW THEREFORE, after careful and thorough deliberation by the Sangguniang Barangay and upon motion by Hon. **JOEL A. AMADORA**, duly seconded by all barangay members officially present, it was;

RESOLVED AS IT IS HEREBY RESOLVED, to pass a Barangay Resolution interposing NO OBJECTION of HOLCIM MINING AND DEVELOPMENT CORPORATION for the development and operation of a LIMESTONE QUARRY PROJECT under MPSA 274-2008-XI-Parcel 4, located at Barangay Kamanga and Tinoto Maasim, Sarangani Province.

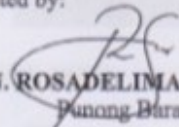
UNANIMOUSLY APPROVED August 01, 2018

I HEREBY CERTIFY, to the correctness of the foregoing barangay resolution which was duly adopted by the Sangguniang Barangay during its 8th regular session on August 01, 2018.

Certified correct:


NATHALIE N. MACAGCALAT
Barangay Secretary

Attested by:


HON. ROSADELIMA N. MANGELEN
Punong Barangay

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Republic of the Philippines
PROVINCE OF SARANGGANI
Municipality of Maasim
Barangay Tinoto



OFFICE OF THE SANGGUNIANG BARANGAY

EXCERPTS FROM THE MINUTES OF INAUGURAL REGULAR SESSION OF THE SANGGUNIANG BARANGAY OF TINOTO, MUNICIPALITY OF MAASIM PROVINCE OF SARANGGANI HELD ON JULY 30, 2018 AT THE SANGGUNIANG BARANGAY SESSION HALL.

Present:

HON. RAJIK A. KUDARAT
HON. BABY S. ISHMAEL
HON. ALANO M. WAHANI
HON. DAMSALI M. SAPPAYANI
HON. URIK L. MANGGOT
HON. ISNURI I. HUNDANI
HON. ROY M. TIO
HON. PERLA B. MUSA
HON. ABRAEL YAM W. KABE
FULONG TEDDY I. PIANG

Punong Barangay/ Presiding Officer
Barangay Kagawad
Barangay Kagawad
Barangay Kagawad
Barangay Kagawad
Barangay Kagawad
Barangay Kagawad
Sk Chairman
IP Representative

RESOLUTION NO. 5, Series of 2018

A BARANGAY RESOLUTION INTERPOSING **NO OBJECTION OF** THE HOLCIM MINING AND DEVELOPMENT CORPORATION. FOR THE LIMESTONE QUARRY PROJECT, LOCATED AT BARANGAY **TINOTO, MAASIM, SARANGANI PROVINCE.**

Authored and Sponsored by HON. ROY TIO

WHEREAS, the HOLCIM MINING AND DEVELOPMENT CORPORATION - a recognized business incorporators, duly registered by the Security and Exchange Commission (SEC) with SEC Reg. No. CS 144982, as adopted on October 26, 2015 (as per copy of S.E.C Certificate of filing amended Articles of Incorporation).

WHEREAS, the HOLCIM MINING AND DEVELOPMENT CORPORATION with business address at KM.21, Budbud, Brgy. Bunawan, Bunawan District and holding a Business License with Permit No. B-13823-1, issued by the Business Permit and License Division- Office of the City Mayor at the City of Davao, Province of Davao Del Sur.

WHEREAS, the operation of Limestone Quarry Project having a total of 425.1146 hectares of land.

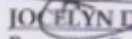
NOW THEREFORE, after careful and thorough deliberation by the Sangguniang Barangay and upon motion by **Hon. ROY TIO**, duly seconded by all barangay members officially present, it was;

RESOLVED AS IT IS HEREBY RESOLVED, to pass a Barangay Resolution interposing NO OBJECTION of HOLCIM MINING AND DEVELOPMENT CORPORATION for the development and operation of a LIMESTONE QUARRY PROJECT under MPSA 274-2008-XI-Parcel 4, located at Barangay Kamanga and Tinoto Maasim, Sarangani Province.


UNANIMOUSLY APPROVED July 30, 2018

I HEREBY CERTIFY, to the correctness of the foregoing barangay resolution which was duly adopted by the Sangguniang Barangay during its 1st regular session on July 30, 2018.

CERTIFIED CORRECT:


JOCELYN D. GAMPAL
Barangay Secretary

ATTESTED AND APPROVED:


HON. RAMIK A. KUDARAT
Punong Barangay



Republic of the Philippines
Province of Sarangani
MUNICIPAL PLANNING & DEVELOPMENT OFFICE
Municipality of Maasim



January 17, 2022

JOEL G. BADANG

Mining and Operations Manager
Holcim Mining & Development Corporation
Km. 21, Budbud, Bunawan, Davao City

Sir:

This has reference to your letter dated December 27, 2021 requesting this office for a zoning certification of a certain area of around 425.1146 hectares in barangay Tinoto, this municipality, for your proposed limestone extraction project which was already issued by our Zoning Officer though the area is zoned as parks and recreation zone while the nature or type of the project is mining/quarrying, thus, the project is non-confirming as to land use or zone.

Nonetheless, we will consider your area to be reclassified into mining/quarrying zone in the revision of our Comprehensive Land use Plan (CLUP) which is now ongoing and wish to be approved by the third quarter of this year.

Hope we have elucidated your good end on this matter.

Thank you and more power.

Very truly yours,

RONALD L. ORBITA, EnP
Municipal Planning & Development Coordinator

ANNEX 2-7d

**PROJECT ENVIRONMENTAL MONITORING AND AUDIT PRIORITIZATION
SCHEME (PEMAPS) QUESTIONNAIRE**

Project Name:	Limestone Mining Project
Project Location:	Brgy. Tinoto, Municipality of Maasin, Sarangani Province
ECC Reference No.:	None
Proponent:	Helix Mining Development Corporation
Pollution Control Officer:	Darlene B. Mata
Tel. No./Fax No./E-mail:	darlene.mata@hmdcph.com / joel.badang@hmdcph.com / +639175779594
Project Type:	Resource Extractive
Project Status:	Pre-construction Phase

I. PROJECT CONSIDERATIONS

1.1 Size and Type

1.1.1 Size based on number of employees

Specify number of employees:

1.1.2 Type:

ECP (in either ECA or Non-ECA)

☐

Non-ECP but in ECA

☐

Non-ECP and Non-ECA

☒

1.2 Waste Generation and Management

1.2.1 Enumerate Waste Type and Specify Quantity of Wastes generated in your facility. (Identify /Enumerate)

Category	Waste	Type		Quantity
		Hazardous	Non-Hazardous	

ANNEX 2-7d

**PROJECT ENVIRONMENTAL MONITORING AND AUDIT PRIORITIZATION
SCHEME (PEMAPS) QUESTIONNAIRE**

Air	Waste 1 TSP/NOx/SOx	X		(units: MT/yr) 0.5 MT/yr (below CAA limits)
	Waste 2 PM10	X		<1MT/yr
	Waste N Noise		X	30-56 dBA
Liquid	Sewage		X	(units: m ³ /yr) <40,000 cu.m./Yr
Solid	Solid waste	X	X	(units: tons/yr) <120 T/yr

1.3 Pollution Control System (PCS)

1.3.1 Enumerate PCS or Waste Management Method Used in your facility.
(Identify /Enumerate)

Category	PCS/Waste Management Method Used	Remarks
Air	PCS 1 Use of low emission vehicle Dust suppression by sprinkling of water	Periodic conduct of ambient air
	PCS 2 Use of mufflers	Periodic conduct of noise monitoring

ANNEX 2-7d

**PROJECT ENVIRONMENTAL MONITORING AND AUDIT PRIORITIZATION
SCHEME (PEMAPS) QUESTIONNAIRE**

	PCS N	
Liquid	Primary Treatment and reuse of wastewater	
	Secondary Practice rain harvesting for domestic use	
	Tertiary	
Solid	Implement RA 9003	
	Segregate solid waste, re-use, and recycle	
	Coordinate with LGU for collection	

II. PATHWAYS

2.1 Prevailing wind towards barrio or city? (mark the corresponding point) Yes ☐ No ☒

2.2 Rainfall (impacts surface & groundwater pathways)

2.2.1 Average annual net rainfall:

Specify amount:

2,591 mm

2.2.2 Maximum 24-hour rainfall:

Specify amount:

7 mm

2.3 Terrain (select one and mark) Flat ☐ Steep ☒

2.4 Is the facility located in a flood-prone area? (select one and mark) Yes ☐ No ☒

2.5 Ground Water

ANNEX 2-7d

**PROJECT ENVIRONMENTAL MONITORING AND AUDIT PRIORITIZATION
SCHEME (PEMAPS) QUESTIONNAIRE**

	PCS N	
Liquid	Primary Treatment and reuse of wastewater	
	Secondary Practice rain harvesting for domestic use	
	Tertiary	
Solid	Implement RA 9003	
	Segregate solid waste, re-use, and recycle	
	Coordinate with LGU for collection	

II. PATHWAYS

2.1 Prevailing wind towards barrio or city? (mark the corresponding point) Yes ☐ No ☒

2.2 Rainfall (impacts surface & groundwater pathways)

2.2.1 Average annual net rainfall:

Specify amount:

2.591 mm

2.2.2 Maximum 24-hour rainfall:

Specify amount:

7 mm

2.3 Terrain (select one and mark) Flat ☐ Steep ☒

2.4 Is the facility located in a flood-prone area? (select one and mark) Yes ☐ No ☒

2.5 Ground Water

ANNEX 2-7d

PROJECT ENVIRONMENTAL MONITORING AND AUDIT PRIORITIZATION
SCHEME (PEMAPS) QUESTIONNAIRE

Depth of groundwater table (meter)

(select one and mark)

0 to less than 3

☐

3 to 10

☐

Greater than 10

☒

III. RECEIVING MEDIA/RECEPTORS

3.1 Air (Distance to nearest community)

(select one and mark)

0 to less than 0.5 km

☐

0.5 to 1 km

☐

Greater than 1 km

☒

3.2 Receiving Surface Water Body

3.2.1 Distance to receiving surface water:

(select one and mark)

0 to less than 0.5 km

☐

0.5 to 1 km

☐

Greater than 1 km

☒

3.2.2 Size of population using receiving surface water

Specify number:

8600

3.2.3 Fresh Water

3.2.3.1 Classification of fresh water:

(select one and mark)

ANNEX 2-7d

**PROJECT ENVIRONMENTAL MONITORING AND AUDIT PRIORITIZATION
SCHEME (PEMAPS) QUESTIONNAIRE**

- | | |
|----|-------------------------------------|
| AA | <input type="checkbox"/> |
| A | <input type="checkbox"/> |
| B | <input type="checkbox"/> |
| C | <input checked="" type="checkbox"/> |
| D | <input type="checkbox"/> |

3.2.3.2 Size of fresh water body:

Specify size:

N/A

3.2.3.3 Economic value of water use (may select more than one of the criteria below)

- | | |
|--------------|-------------------------------------|
| Drinking | <input type="checkbox"/> |
| Domestic | <input type="checkbox"/> |
| Recreational | <input type="checkbox"/> |
| Fishery | <input type="checkbox"/> |
| Industrial | <input checked="" type="checkbox"/> |
| Agricultural | <input checked="" type="checkbox"/> |

3.2.4 Salt water

3.2.4.1 Classification of salt water (select one and mark)

- | | |
|----|-------------------------------------|
| SA | <input checked="" type="checkbox"/> |
| SB | <input type="checkbox"/> |
| SC | <input type="checkbox"/> |

ANNEX 2-7d

**PROJECT ENVIRONMENTAL MONITORING AND AUDIT PRIORITIZATION
SCHEME (PEMAPS) QUESTIONNAIRE**

SD

☐

3.2.4.2 Economic value of water use

(may select more than one
of the criteria below)

Fishery

☒

Tourist zone or park

☒

Recreational

☒

Industrial

☒

3.3 Ground Water

3.3.1 Distance to nearest recharge area

(select one and mark)

0 to less than 0.5 km

☐

0.5 to 1 km

☐

Greater than 1 km

☒

3.3.2 Distance to nearest well used

(select one and mark)

0 to less than 0.5 km

☐

0.5 to 1 km

☐

Greater than 1 km

☒

3.3.3 Groundwater use within the nearest well

(may select more than one
of the criteria below)

Drinking

☐

ANNEX 2-7d

**PROJECT ENVIRONMENTAL MONITORING AND AUDIT PRIORITIZATION
SCHEME (PEMAPS) QUESTIONNAIRE**

Industrial ☐

Agricultural ☐

3.4 Land

3.4.1 Indicate current/actual land uses within 0.5 km radius: (may select more than one of the criteria below)

Residential ☒

Commercial/Institutional ☐

Industrial ☐

Agricultural/Recreational ☒

Protected Area ☐

3.4.2 Potential/proposed land uses within 0.5 km (may select more than one of the criteria below)

Residential ☐

Commercial/Institutional ☐

Industrial ☒

Agricultural/Recreational ☒

Protected Area ☐

3.4.3 Number of affected Environmentally Critical Areas within 1 km:

ANNEX 2-7d

**PROJECT ENVIRONMENTAL MONITORING AND AUDIT PRIORITIZATION
SCHEME (PEMAPS) QUESTIONNAIRE**

Specify number:

1

3.4.4 Distance to nearest ECA

(select one and mark)

0 to less than 0.5km

☐

0.5 to 1 km

☐

Greater than 1 km

☒

IV. ENVIRONMENTAL PERFORMANCE (FOR EXISTING PROJECTS FOR EXPANSION)

3.5 Compliance (pls. take note that this will be double-checked with PCD files)

Law	Violation (check if any)	Type (pls. specify number of times committed)				Type of Admin Violation	Additional Remarks/Status of Compliance
		STANDARD					
		Emission/Effluent/Discharge	Ambient	Human Impact	Admin/ ECC		
RA 8749	<input type="checkbox"/>						
RA 9275	<input type="checkbox"/>						
RA 6969	<input type="checkbox"/>						
PD 1586	<input type="checkbox"/>						
RA 9003	<input type="checkbox"/>						

3.6 Number of Valid Complaints

3.6.1 Citizen and NGOs

ACCOUNTABILITY STATEMENT OF PROJECT PROPONENT

This is to certify that all information in the submitted **Project Monitoring and Audit Prioritization Scheme (PEMAPS) Questionnaire of Helix Mining and Development Corporation** located **at Maasim, Sarangani** is true, accurate and complete. Should I learn of any information, which makes this inaccurate, I shall bring said information to the appropriate Environmental Management Bureau Regional Office.


In witness whereof, I hereby set out my hands this 14 FEB 2023 day of 2023 at ANGONO, RIZAL.


MR. RENATO BAJA

Project Proponent

SUBSCRIBED AND SWORN to before me this 14 FEB 2023 day of _____ 2023 at ANGONO, RIZAL. Affiant exhibiting to me his/her Passport No. _____ issued on _____.

Doc. No. 449
Page No. 22
Book No. XV(11)
Series of 2023


ATTY. JOEL B. BADULA, CPA
Notary Public
Until December 31, 2023
PTR No. 027756/ 03-08-2022
IBP LMR No. 017048/ O.R. #013272
Roll No. 59304
MCLE Comp. No. VII-0004860/04-14-2022
Angono, Rizal



UNIVERSITY OF THE IMMACULATE CONCEPTION

SCIENCE RESOURCE CENTER

UIC-SRC Form No. 7
Revision No. 01
10.01.2018

TEST REPORT

NAME OF CUSTOMER: HELIX MINING DEVELOPMENT CORP.
ADDRESS: TINOTO, MAASIM, SARANGANI PROVINCE
SAMPLE: SOIL (02)

CONTROL NO: 22-1268C
DATE REPORTED: 08/24/2022
DATE SAMPLE RECEIVED: 07/07/2022

RESULTS OF ANALYSIS (AIR DRY BASIS):

Lab. No.	S22-093	S22-094
Description	Mirabueno Creek Site	Mirabueno Drill Site
pH @ 25.0°C (1:2.5 in H ₂ O)	7.8	7.6
Organic Matter, %	17.62	8.70
Nitrogen, %	0.78	0.35
Phosphorus, µg/g	600	325
Exch. Potassium, meq/100g	11.57	0.35
Exch. Calcium, meq/100g	8.62	9.25
Exch. Magnesium, meq/100g	6.59	0.96
Arsenic (leachable), µg/g	0.037	0.011
Cadmium, µg/g	0.41	0.20
Chromium, µg/g	26.36	38.90
Lead, µg/g	6.40	5.70
Mercury, µg/g	0.02	<0.02

Nothing follows

- REMARKS:**
- Results relate only to samples as submitted and tested.
 - Methods used:
 - pH: Electrometric Method
 - Organic Matter: Walkley Black Method
 - Nitrogen: Automated Kjeldahl Method
 - Phosphorus: Olsen's method.
 - Potassium, calcium and magnesium: Ammonium Saturation, 0.1 N pH 7.0
 - Arsenic (leachable): Prepared by leaching 10 g soil with 250 mL milliQ water overnight; followed by colorimetric determination in accordance with the Standard Methods for the Examination of Water & Wastewater, 23rd ed.
 - Cadmium, chromium, lead and mercury: in accordance with the Manual on Standard Analytical Procedures of the Mines & GeoSciences Bureau Laboratories.
 - Estimation of Measurement Uncertainty (MU) may be available upon request.
 - This test report may not be reproduced unless in full.

ANALYZED BY:

JONEL JOHN F. ZABALA	KARL JAN D. ALOCADA	SHEENA MARIE B. CRUZ	RUSSELL CAESAR P. ENOC	JUDY S. MANLIGUIS	EVELYN D. AUSAN
PRC License No. 13880	PRC License No. 3288	PRC License No. 13309	PRC License No. 12653	PRC License No. 8700	PRC License No. 1232
Junior Analyst I	Junior Analyst I	Junior Analyst II	Junior Analyst II	Junior Analyst III	Senior Analyst III

CERTIFIED BY:

LUDIVINA M. PORTICOS, MBA, MS
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Director

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UNIVERSITY OF THE IMMACULATE CONCEPTION

SCIENCE RESOURCE CENTER

UIC-SRC Form No. 7
Revision No. 01
10.01.2018

TEST REPORT

NAME OF CUSTOMER: HELIX MINING DEVELOPMENT CORP.
ADDRESS: MAASIM, SARANGANI PROVINCE
SAMPLE: SOIL (02)

CONTROL NO: 22-1341C
DATE REPORTED: 09/01/2022
DATE SAMPLE RECEIVED: 07/22/2022

RESULTS OF ANALYSIS (AIR DRY BASIS):

Lab. No.	S22-095	S22-096
Description	Lawa Compound	Mirabueno 3
pH @ 25.0°C (1:2.5 in H ₂ O)	7.4	7.9
Organic Matter, %	5.63	5.33
Nitrogen, %	0.27	0.12
Phosphorus, µg/g	150	125
Exch. Potassium, meq/100g	0.75	0.63
Exch. Calcium, meq/100g	30.10	12.99
Exch. Magnesium, meq/100g	2.27	0.73
Exch. Sodium, meq/100g	0.03	0.02
Arsenic (leachable), µg/g	0.083	0.056
Cadmium, µg/g	0.32	0.40
Chromium, µg/g	26.82	49.90
Lead, µg/g	7.26	8.22
Mercury, µg/g	<0.02	<0.02

REMARKS: 1. Results relate only to samples as submitted and tested.

2. Methods used:

- pH: Electrometric Method
- Organic Matter: Walkley Black Method
- Nitrogen: Automated Kjeldahl Method
- Phosphorus: Olsen's method
- Potassium, calcium and magnesium: Ammonium Saturation, 0.1 N pH 7.0
- Arsenic (leachable): Prepared by leaching 10 g soil with 250 mL milliQ water overnight; followed by colorimetric determination in accordance with the Standard Methods for the Examination of Water & Wastewater, 23rd ed.
- Cadmium, chromium, lead and mercury: in accordance with the Manual on Standard Analytical Procedures of the Mines & GeoSciences Bureau Laboratories.

3. Estimation of Measurement Uncertainty (MU) may be available upon request.

4. This test report may not be reproduced unless in full.

ANALYZED BY:

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PRC License No. 13880
Junior Analyst I

KARL JAN D. ALOCADA
PRC License No. 3288
Junior Analyst I

RUSSELL CAESAR P. ENOC
PRC License No. 12653
Junior Analyst II

JUDY S. MANLIGUIS
PRC License No. 8700
Junior Analyst III

EVELYN D. AUSAN
PRC License No. 1232
Senior Analyst III

CERTIFIED BY:

LUDIVINA M. PORTICOS, MBA, MS
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Director

Father Selga Street
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Philippines

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Tel. Numbers: (6382) 221-8090 / 221-8181
227-8144 / 227-4543 Local 133
Email Address: src@uic.edu.ph



REPORT OF ANALYSES
(Physicochemical Test)

Client : SIGUEL RIVER
Address : Maasim, Sarangani Province
Source : River Water
Sampled by : April Patricia Fontanilla

SS/COC No. : 2022-0113W
Date/Time
Received : May 18, 2022/17:07
Date Reported : May 31, 2022

LABORATORY SAMPLE CODE	SAMPLE TYPE	DATE/TIME SAMPLED	SAMPLE IDENTIFICATION
2022 05 0766 RW	River Water	May 18, 2022/14:39	Station 1
2022 05 0767 RW	River Water	May 18, 2022/14:54	Station 2
2022 05 0768 RW	River Water	May 18, 2022/15:02	Station 3
2022 05 0769 RW	River Water	May 18, 2022/15:09	Station 4
2022 05 0770 RW	River Water	May 18, 2022/15:16	Station 5

PARAMETER/S	UNIT	SAMPLE CODE					DATE/TIME ANALYZED	METHOD REFERENCE
		0766 RW	0767 RW	0768 RW	0769 RW	0770 RW		
Color, True	CU	5	5	5	5	5	May 19, 2022/08:00	SMEWW 2120-B
pH	xxx	8.37	8.59	8.46	8.53	8.51	May 18, 2022/17:30	SMEWW 4500-H ⁺ B
DO	mg/L	7.6	7.8	7.4	7.9	7.7	On Site	SMEWW 4500-O G
BOD	mg/L	<1	<1	<1	<1	<1	May 18, 2022/17:30	SMEWW 5210-B
TSS	mg/L	297	178	151	133	139	May 23, 2022/09:00	SMEWW 2540-D
Temperature	°C	29.9	30.1	29.8	29.4	29.4	On Site	SMEWW 4500-H ⁺ B

Remarks: Result relates only to the sample as received. Dissolved Oxygen and Temperature were measured onsite and other parameters were tested in the laboratory.

Notes:
SMEWW-Standard Methods for the Examination of Water and Wastewater, 22nd Edition, APHA/AWWA/WEF
US EPA- United States Environmental Protection Agency
xxx- Nothing Follows

Analyzed by:

Ann Amor M. Alfaro, RCh.
Environmental Management
Specialist II
PRC Reg. No. 0012169

Myllmar A. Calub, RCh.
Chemist II
PRC Reg. No. 0011937

Certified by:

Allen Joy B. Saganay, RCh.
Chemist III
PRC Reg. No. 0011745

Noted by:

Engr. Omar M. Saikol, MIsDS
Director II
Regional Director



REPORT OF ANALYSES
(Microbiological Test)

Client : SIGUEL RIVER
Address : Maasim, Sarangani Province
Source : River Water
Sampled by : April Patricia Fontanilla

SS/COC No. : 2022-0113W
Date/Time :
Received : May 18, 2022/17:07
Date Reported : May 31, 2022

LABORATORY SAMPLE CODE	SAMPLE TYPE	DATE/TIME SAMPLED	SAMPLE IDENTIFICATION
2022 05 0766 RW	River Water	May 18, 2022/14:39	Station 1
2022 05 0767 RW	River Water	May 18, 2022/14:54	Station 2
2022 05 0768 RW	River Water	May 18, 2022/15:02	Station 3
2022 05 0769 RW	River Water	May 18, 2022/15:09	Station 4
2022 05 0770 RW	River Water	May 18, 2022/15:16	Station 5


PARAMETER	UNIT	SAMPLE CODE					DATE/TIME ANALYZED	METHOD REFERENCE
		0766 RW	0767 RW	0768 RW	0769 RW	0770 RW		
Fecal Coliform	MPN/100mL	1,300	490	3,500	330	490	May 19, 2022/06:35	SMEWW 9221


Notes

SMEWW-Standard Methods for the Examination of Water and Wastewater, 23rd Edition, APHA/AWWA/WEF
US EPA - United States Environmental Protection Agency
xxx- Nothing Follows

Analyzed by:


Certified by:


Cyra Iris T. Gendindatu
Technical Support Specialist


Gibe Justine P. Jalinon, RMicro.
Registered Microbiologist
RM 20-00589

Checked by:

Noted by:


Allen Joy B. Sagunay, RCh.
Chemist III
PRC/Reg. No. 0011745


Engr. Omar M. Saikol, MiSDS
Director II
Regional Director

REPORT OF ANALYSES (Anions)

Client : SIGUEL RIVER
Address : Maasin, Sarangani Province
Source : River Water
Sampled by : April Patricia Fontanilla

SS/COC No. : 2022-0113W
Date/Time
Received : May 18, 2022/17:07
Date Reported : May 31, 2022

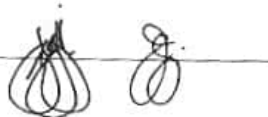
LABORATORY SAMPLE CODE	SAMPLE TYPE	DATE/TIME SAMPLED	SAMPLE IDENTIFICATION
2022 05 0766 RW	River Water	May 18, 2022/14:39	Station 1
2022 05 0767 RW	River Water	May 18, 2022/14:54	Station 2
2022 05 0768 RW	River Water	May 18, 2022/15:02	Station 3
2022 05 0769 RW	River Water	May 18, 2022/15:09	Station 4
2022 05 0770 RW	River Water	May 18, 2022/15:16	Station 5

PARAMETER/S	UNIT	SAMPLE CODE					DATE/TIME ANALYZED	METHOD REFERENCE
		0766 RW	0767 RW	0768 RW	0769 RW	0770 RW		
Nitrate, N	mg/L	<0.100	<0.100	0.219	<0.100	<0.100	May 18, 2022/18:00	US EPA 352.1
Chloride	mg/L	8.138	8.556	9.220	8.886	8.518	May 30, 2022/14:07	SMEWW 4110 B
Phosphate, P	mg/L	<0.100	0.172	<0.100	<0.100	<0.100	May 18, 2022/17:45	SMEWW 4500 P E

Remarks: Result relates only to the sample as received.

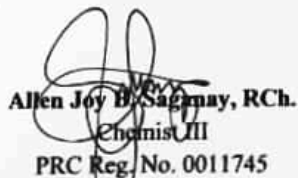
Notes:
SMB WW-Standard Methods for the Examination of Water and Wastewater, 23rd Edition, APHA/AWWA/WEF
US EPA- United States Environmental Protection Agency
xxx- Nothing Follows

Analyzed by:



Ann Amor M. Alfaro, RCh.
Environmental Management
Specialist II
PRC Reg. No. 0012169

Certified by:



Allen Joy B. Sagamay, RCh.
Chemist III
PRC Reg. No. 0011745

Noted by:



Engr. Omar M. Salkol, MiSDS
Director II
Regional Director

FINAL EXPLORATION REPORT:
Geology and Limestone Resources
Covering MPSA 274-2008-XI Parcel 4
(APSA 032-XII-1997)
at Maasim, Sarangani Province
of
Holcim Mining and Development Corporation

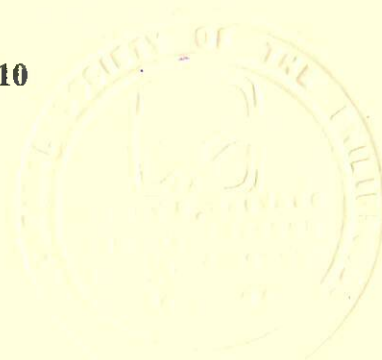


Henry R. Salvado
Registered Geologist, PRC License No. 808
Competent Person Accreditation, No. 14-02-01

Godfrey Gemal
Registered Geologist, PRC License No. 1910

MGB XI - Davao City	
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Doc. Nos:	
Date:	07/17/20
Time:	By: <i>[Signature]</i>

VOLUME 1



FINAL EXPLORATION REPORT:
Geology and Limestone Resources
Covering MPSA 274-2008-XI Parcel 4
(APSA 032-XII-1997)
at Maasim, Sarangani Province
of
Holcim Mining and Development Corporation



Henry R. Salvado
Registered Geologist, PRC License No. 808
Competent Person Accreditation, No. 14-02-01

Godfrey Gemal
Registered Geologist, PRC License No. 1910

CERTIFICATE OF COMPETENT PERSON

As a Competent Person and author of the report titled "Geology and Limestone Resources Covering MPSA 274-2008-XI Parcel 4 (APSA 032-XII-1997) at Maasim, Sarangani Province of Holcim Mining and Development Corporation" dated May 30, 2019, to which certificate applies, I, Henry R. Salvado do hereby certify that:

1. I, Henry R. Salvado VP for Environmental Engineering of MCK Perez Development and Consultancy Corporation with business address at MCK PEREZ Building, No. 69A Road 1 Cor. Road 8, Project 6, Quezon City 1100, National Capital Region, Philippines.
2. I graduated with a Bachelor of Science degree in Geology from Adamson University in 1981
3. I am a Registered License Geologist with PRC Geologist License Number 808
4. I am an active member of the Geological Society of the Philippines.
5. I am a Competent Person accredited by the Competent Person Accreditation Committee of the Geological Society of the Philippines in adherence to the PMRC with accreditation Number 14-02-01.
6. I have worked as a geologist in the mining industry for more than 30 years since my graduation.
7. My most recent personal inspection of the Maasim MPSA 274-2008-XI Parcel 4 was in May 2019.
8. I am independent from Holcim Mining and Development Corporation.
9. The Technical Report under my responsibility have been prepared in compliance with the PMRC
10. As of the date of this certificate, to the best of my knowledge, information and belief, the Technical Report contains all scientific and technical information that is required to be disclosed to make Technical Report not misleading.

LIMITATION, WARRANTY AND CLOSURE

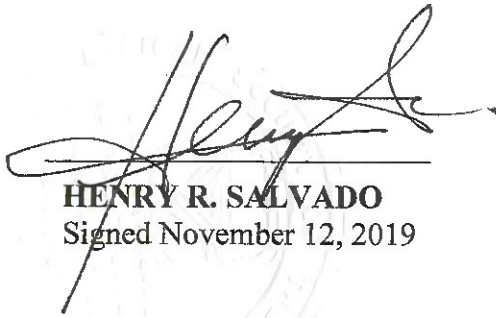
This report **Geology and Limestone Resources Covering MPSA 274-2008-XI Parcel 4 (APSA 032-XII-1997) at Maasim, Sarangani Province of Holcim Mining and Development Corporation** – was prepared by me in my capacity as Competent Person and Mr. Godfrey Gemal as geologist of HMDC. This report is based on available data and information provided by Holcim Mining and Development Corporation – Davao Operation as of May 13, 2019. All professional opinions, interpretation and conclusions made in this Report were done in accordance with geo-scientific principles and practice and industry standards.

This Report is to form part of a Mining Project Feasibility Study for submission to the Mines and Geosciences Bureau and is not meant for public disclosure. Any disclosure for some other purpose/s based on this report should obtain our consent.

The contents of the Report are valid from the date of signing by the undersigned. However, in the event that any new geological information, exploration results and ore deposit models will arise that may have direct or indirect implication on the mineral resources inventory as declared in this Report, the said inventory may be rendered inaccurate and should therefore be appreciated or treated with caution.

Consequently, the Mineral Resources inventory in this Report should not be relied upon after elapsed period of one year without the professional review, technical verification and updating by the authors or another Competent Person/s.

This warranty is in lieu of other warranties, either expressed or implied.



HENRY R. SALVADO
Signed November 12, 2019

EXECUTIVE SUMMARY

Holcim Philippines, Inc. hold a Mineral Sharing Agreement designated as APSA-032-XII-1997 with an area of 584.72 hectares located in Barangay Tinoto, Maasim, Sarangani Province. HPI has an active Mineral Production Sharing Agreement designated as MPSA No. 274-2008-XI located in Davao City. HMDC application for expansion of its active MPSA (MPSA No. 274-2008-XI) was granted by the Mines and Geo-Sciences Bureau Central Office, covering 642.1537 hectares, annexing the areas covered by its MPSA applications designated as APSA-000107-XI and APSA-032-XII-1997 covering 339.3021 and 425.1146 hectares located in Davao City and Maasim, Sarangani respectively. The approval of the expansion is under the same terms and conditions provided for under Mineral Production Sharing Agreement No. 274-2008-XI and the existing Applicable laws, rules and regulations. APSA-032-XII-1997 then became Parcel 4 of MPSA No. 274-2008-XI with an area of 425.1146 hectares.

Exploration activities was conducted by HMDC on Parcel 4 of MPSA No. 274-2008-XI to delineate the limestone resource in the area. It is planned that the limestone deposit in the area would supply raw materials to its existing cement plant in Davao City. Exploration activity by HMDC consist of lithologic mapping and sampling, Test Pitting, Topographic Survey and Diamond Drilling. Result of the exploration activities showed that the entire Parcel 4 of MPSA No. 274-2008-XI is underlain by Limestone belonging to the Kamanga Limestone which is a recently uplifted reef limestone along the western coast of Sarangani Bay and covering the Siguel-Kamanga area. Subsurface exploration by Diamond drilling reveals the persistence of the Limestone deposit at depth to be more than 200 meters in thickness.

Resource calculation of the limestone deposit using the drilling data shows a total resource of 411 Million Metric Tons with an average grade of 51.69% Cao and 2.16% MgO. Results of analysis of the limestone deposits from surface and drill samples passed the criteria of Holcim for use as raw material for its cement plant. The resource is more than enough to make the project economically feasible for Limestone extraction for use as a raw material in Holcim Philippines cement manufacturing in Davao.

Additional drill holes would upgrade the resource into a measured category but is not deemed necessary as both surface and sub-surface exploration showed that the limestone deposit covers the whole MPSA area and there is continuity of the deposit between drillholes.

TABLE OF CONTENTS

1. INTRODUCTION
2. TENEMENT AND MINERAL RIGHTS
3. GEOGRAPHIC FEATURES
 - 3.1. Location and Accessibility
 - 3.2. Physiography
 - 3.2.1. Topography
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1. INTRODUCTION

Holcim Mining and Development Corporation (HMDC) had commissioned the undersigned to prepare a Final Exploration Report for its mining tenement denominated as MPSA 274-2008-XI Parcel 4 (APSA 032-XII-1997), located in the municipality of Maasim, Sarangani Province, in compliance to the government's requirement in connection with its submission of a Declaration of Mining Project Feasibility Study to the Mines and Geosciences Bureau (MGB). The proposed project will supply the existing Holcim Philippines cement plants in Davao City.

The preparation of this Report is aimed primarily at presenting the results of the exploration activities undertaken by Holcim and deriving a resource estimate of the Limestone deposit within the mining tenement denominated as MPSA 274-2008-XI Parcel 4 (APSA 032-XII-1997). This Report will form part of the submission of Holcim to the Mines and Geosciences Bureau (MGB) in connection with its Declaration of Mining Project Feasibility Study.

2. TENEMENT AND MINERAL RIGHTS

Holcim Philippines, Inc. (then Davao Union Cement Corporation) in 1992 filed an Application for a Mineral Sharing Agreement with the Department of Environment and Natural Resources-Mines and Geosciences Bureau Regional Office XI for a 786.46 hectare mining claim in Barangay Tinoto, Maasim, Sarangani Province. The application was granted in 1997 by DENR-MGB for a Mineral Sharing Agreement designated as APSA-032-XII-1997. An area of 584.72 hectares out of the 786.46 hectares was awarded to HPI.

HPI has an active Mineral Production Sharing Agreement designated as MPSA No. 274-2008-XI located in Davao City. In May 2015 HMDC applied for an expansion of its active MPSA (MPSA No. 274-2008-XI) covering 642.1537 by annexing the areas covered by its MPSA applications dominated as APSA-000107-XI and APSA-032-XII-1997 covering 339.3021 and 425.1146 hectares located in Davao City and Maasim, Sarangani respectively. Approval of the applied expansion was granted by Mines and Geo-Sciences Bureau Central Office in July 14, 2015 under the same terms and conditions provided for under Mineral Production Sharing Agreement No. 274-2008-XI and the existing Applicable laws, rules and regulations. APSA-032-XII-1997 then became Parcel 4 of MPSA No. 274-2008-XI with an area of 425.1146 hectares. Letter of Approval from the director of Mines and GeoSciences Bureau of the expansion of MPSA No. 274-200-XI annexing APSA-032-XII-1997 is attached as Appendix 2. Corner coordinates of Parcel 4 is tabulated in Table 1.0 and plotted in figure 1.

**Table 1.0 Geographic Coordinates of Corners of
MPSA 274-2008-XI Parcel 4 (APSA 032-XII-1997)**

Point	Latitude	Longitude
1	5°54'30.00"	125°04'30.00"
2	5°54'30.00"	125°04'00.00"
3	5°56'00.00"	125°04'00.00"
4	5°56'00.00"	125°05'00.00"
5	5°55'00.00"	125°05'00.00"
6	5°55'00.00"	125°04'30.00"
Area		425 has
Projection		WGS 1984/ UTM Zone 51N

3. GEOGRAPHIC FEATURES

3.1. Location and Accessibility

The project site is located in Barangay Tinoto of the Municipality of Maasim, Sarangani Province. The center of Maasim is about 56 Kilometers away from General Santos City, the regional center for commerce and industry of the Soccsksargen region. General Santos City is service by commercial flights from Manila and Cebu. General Santos City also has a seaport that handles local and international commercial vessels.

The Municipality of Maasim can be accessed from General Santos City via the South Cotabato – Sarangani Road which hugs the south-western coastline of the island of Mindanao. Travel time via private vehicle is 1 to 1.5 hours. From the coastal road in Barangay Kamanga an unpaved to semi concrete barangay road of about 13 kilometers lead to the western central edge of the project site. Within the project area itself, travel is mainly by secondary feeder roads that were used during the drilling operation and unpaved foot trails. Access to the more remote and difficult portions are achieved mainly by cutting a trail across thin secondary growth forest and grass land.

3.2. Physiography

The municipality of Maasim is situated at the southwestern tail end of General Santos City facing the Sarangani Bay in the western Sarangani Province. The northern section of the municipality serves as the southeastern catchment (Siguel River) of the Mt. Parker Highlands. The topography of the area is highly dissected by moderate weathering with the formation of moderately to deeply incised V- to U-shaped valley systems. The terrain at the site is generally rolling to sloping with the highest elevation registered at about 1842 meters (Mt. Talumpong) above mean sea level (amsl) in the upper catchment of Siguel River.

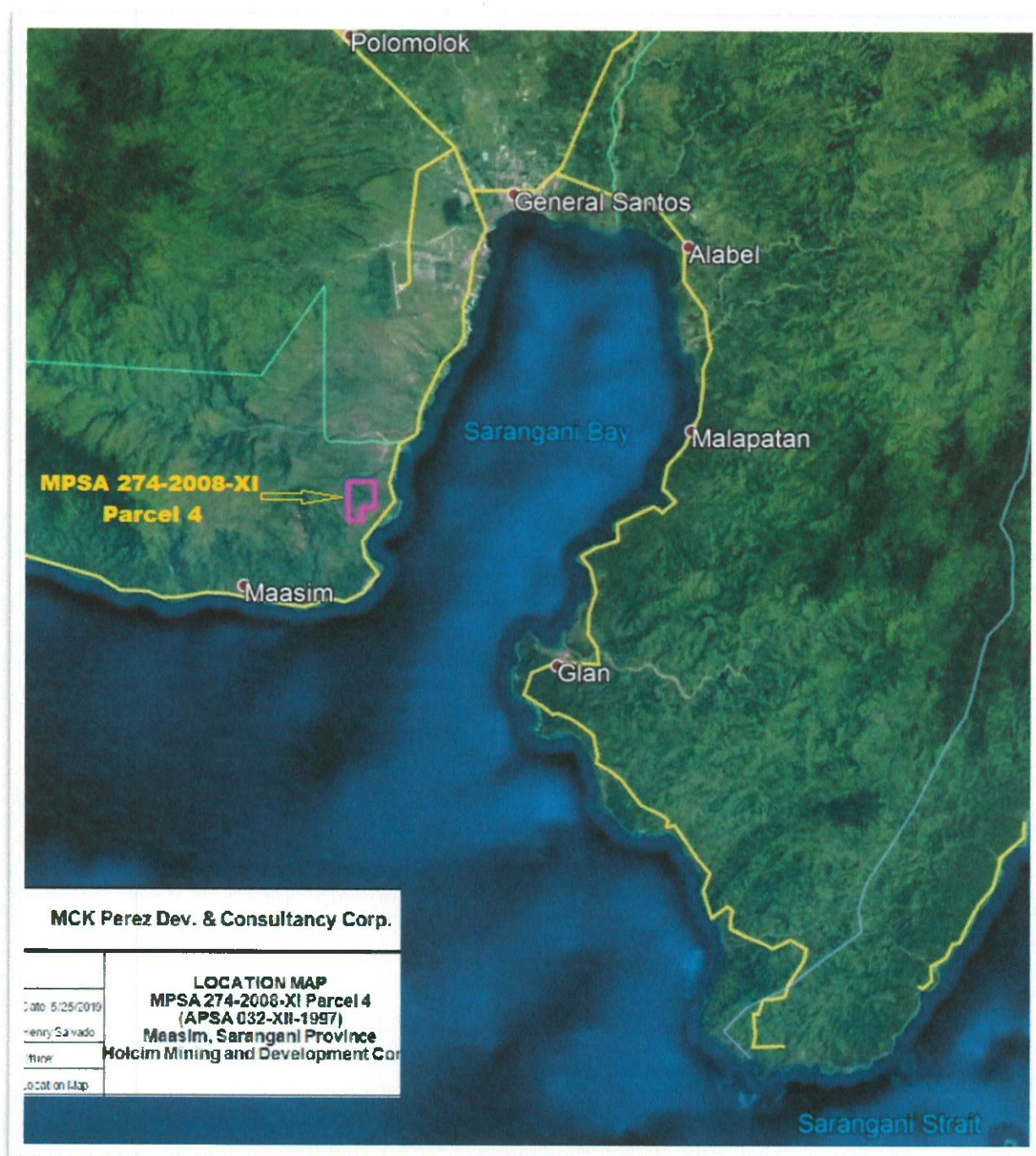


Figure 1.0 Location Map MPSA 274-XI Parcel 4

3.2.1. Topography

The project area and its immediate vicinities are characterized by rugged topography with steep cliff and possible sinkholes in the area. A topographic survey was undertaken in the area by Nth Geometrics and Geographics, a third party contractor based in Davao City. Survey was done using Leica Flexline TS0651000 and Leica Flexline TS064R00 Total Stations, US Handheld Nautiz X7 and Leica GS09/GS14 GNSS (GPS + GLONASS) GPS units.. A detailed

topographic map of Parcel 4 (Figure 2) was produced as a result of this survey. Highest elevation in the area is at 365 meter from MSL.

3.2.2. Drainage

The drainage pattern of the study area is strongly influenced by the occurrence of several volcanic vents near the summits of Mt. Parker and Mt. Talumpong and from the deposition of recent pyroclastic flows and recent sediments along its peripheral moderate slopes. Recent intermittent volcanic activity has produced the widespread occurrence of cyclic layers of volcanic ash beds and other pyroclastic flow layers under sub-aerial deposition in the entire slopes and lowlands of Maasim and nearby coastal municipalities. The present physiography of the municipality of Maasim is generally formed by a south-easterly flowing Siguel River and Kamanga River that empty into the Sarangani Bay and Celebes Sea, respectively

There is no river or big stream present in the project site. Intermittent streams that only have water when it rains in the area are at the eastern part of the property and these are lost on the sinkholes and does not reach the coast (Figure_2).

3.2.3. Climate and Vegetation

The climate of the Philippines is generally influenced by the complex interaction of various factors such as the geography and topography of the country. According to the Philippine Atmospheric Geophysical and Astronomical Services Administration (PAGASA), the climate of the Philippines can be divided into two (2) major seasons based on temperature and rainfall - the rainy season and dry season. The Coronas System of Climate Classification is the most commonly used in the Philippines, with four (4) types described as follows:

Type I – These are areas generally shielded by mountain ranges but are open to rains brought in by habagat and tropical cyclones. It has two pronounced seasons: dry from November to April and wet throughout the rest of the year. The maximum rain period is from June to September. Palawan and Mindoro belong to this type of climate classification.

Type II - Regions of this climate are along or very near the eastern coast. This climate type is characterized by the absence of a dry season but with a pronounced maximum rain period from December to February. Minimum monthly rainfall occurs between March to May. Some of the areas that belong to this climate are Catanduanes, Sorsogon and large portions of Eastern Mindanao.

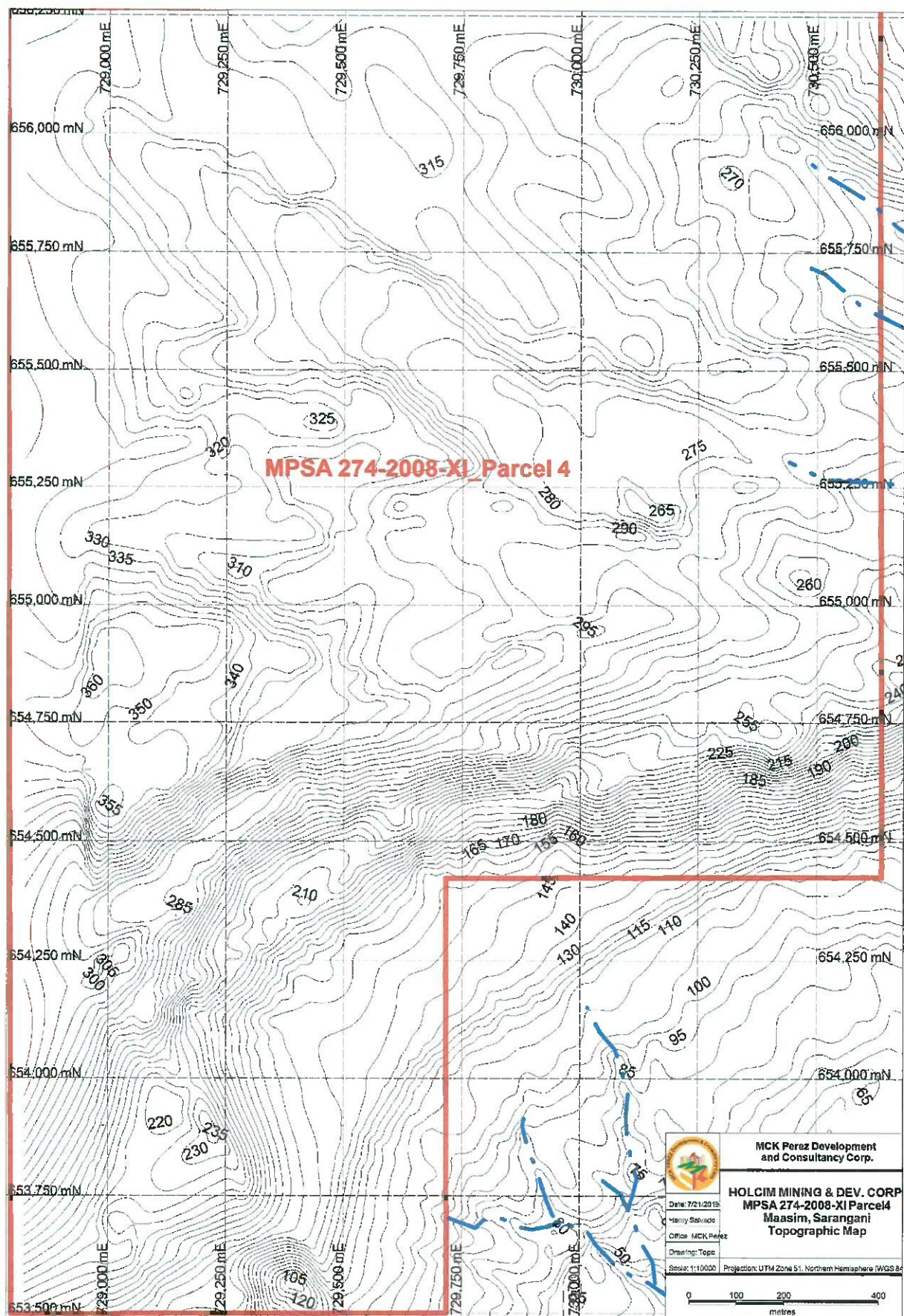


Figure 2.0 Topographic and Drainage Map

Type III – These are areas sheltered from trade winds but are open to Habagat and are frequented by tropical storms and cyclones. Seasons are not very pronounced but are relatively dry from one to three months, usually from December to February or March to May. Areas under this type include the western part of Cagayan, Isabela and parts of Northern Mindanao.

Type IV – This type is characterized by more or less evenly distributed rainfall throughout the year. This type resembles type II because it has no dry season. Areas with this climate include Batanes, Albay, Bohol and most of Central, Eastern and Southern Mindanao, including the Sarangani Province and General Santos City.

Based on this classification, the PAGASA classified the southern provinces of Mindanao Region as Type IV climate region. Figure 4 shows the Climate Map of the Philippines.

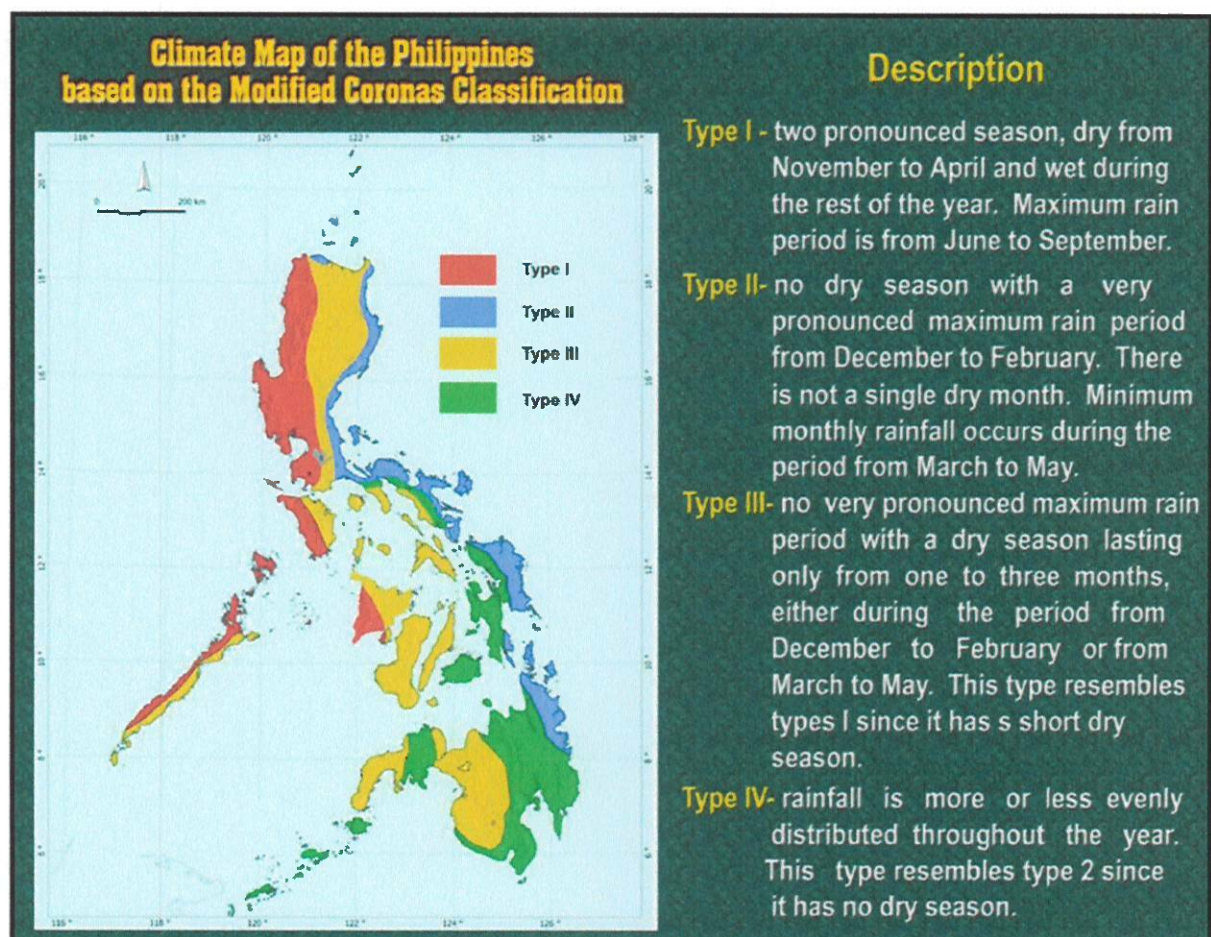


Figure 3.0 Climate Map of the Philippines

3.3. Land Use and infrastructure

The land use in the MPSA area was classified into an agricultural land (Figure 4). Presently it is used as grazing land for cattle. There is no major infrastructure within the MPSA area except for the unpaved road driven during the drilling campaign in the area. The area is entirely within a secondary growth forest with thin to moderate secondary growth trees and grass.

3.4. Socio Economic Environment

The Municipality of Maasim is a first class municipality in the province of Sarangani, Philippines. Based on the 2015 census, it has a population of 59,468. The town is divided into 16 barangays on a total land area of 500.43 km². 12 of which are coastal barangays. Build up areas are found predominantly at the coastal areas with the Maasim land area devoted to Industrial and Mining areas. The MPSA area is located in the agro-forestry and agricultural areas (Figure 4).

Maasim is bordered on the west by the municipality of Kiamba, on the southeast by Sarangani Bay, on the northeast by General Santos City, on the north by South Cotabato, and on the south by the Celebes Sea.

The economy of Maasim is largely based on agriculture with a high level production of copra (dried coconut meat). Animal husbandry is the second biggest income earner, notably cattle farming. Other agricultural products are coconuts, maize, sugarcane, bananas, pineapples, mangoes, eggs, beef and fish.

The economy has accelerated in the past decade driven by advances in global communication technology and the finishing of a modern highway that tremendously improved trade and transport.

The mountain villages, home of the Blaans as well as Christian communities, host ranches and agricultural plantations of banana. Maasim also has extensive industrial investments such as shipyards and a power plant.

3.4.1. Demography

The Municipality of Maasim based on the 2015 census, has a population of 59,468. The town is divided into 16 barangays on a total land area of 500.43 km². 12 of which are coastal barangays.

Build up areas are found predominantly at the coastal areas with the Maasim land area devoted to Industrial and Mining areas. The MPSA area is located in the agro-forestry and agricultural areas (Figure 4).

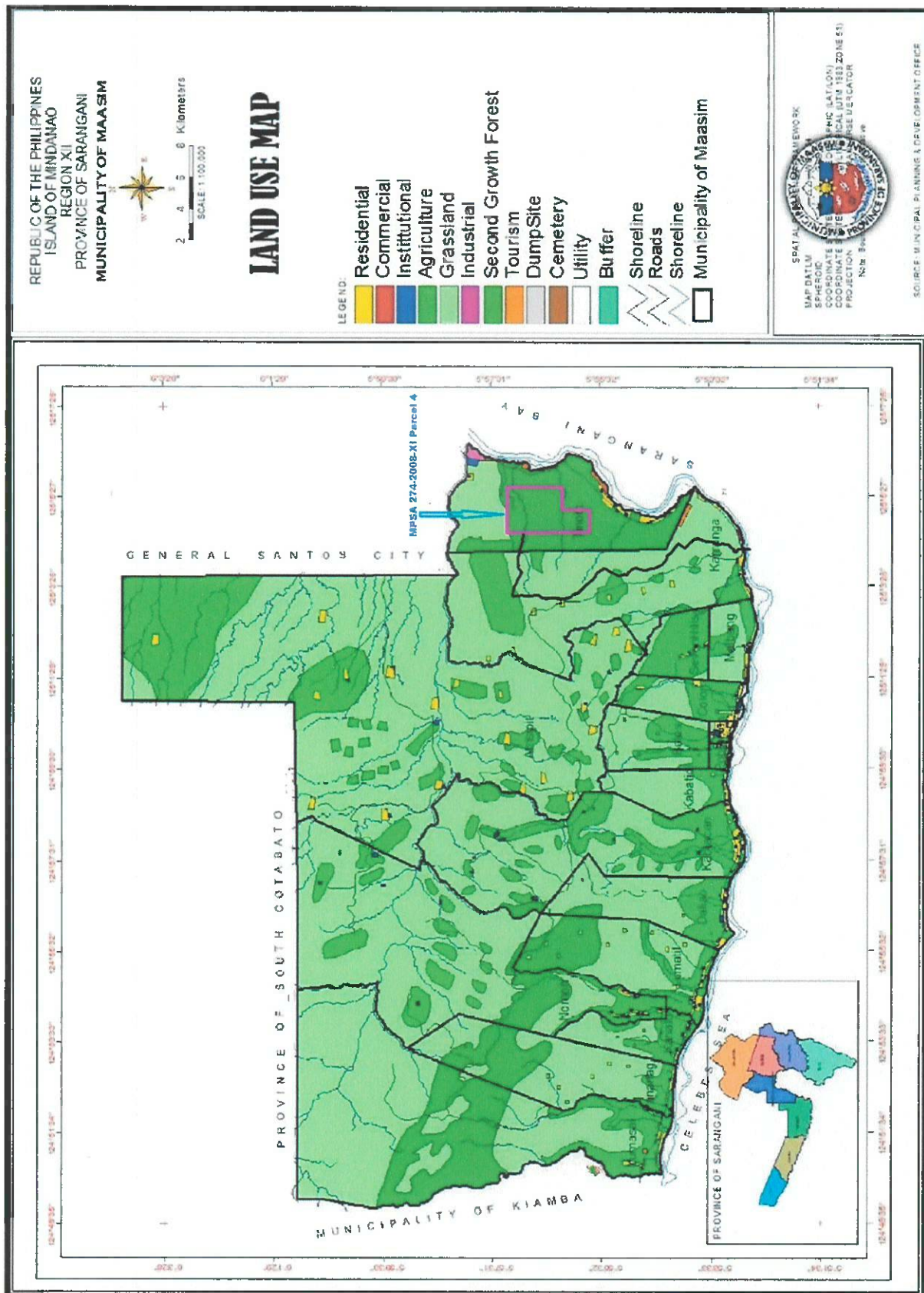


Figure 4. Land Use Map of Municipality of Maasim

4. PREVIOUS WORK AND FINDINGS

Previous geological work in the area is limited to quadrangle mapping by the Mines and Geo-Sciences Bureau Region XI and identified the limestone resources of the area. Recently the Geohazard Mapping for the Landslide and Flood susceptibility of the Municipality of Maasin was undertaken by the Mines and Geo-Sciences Bureau Regional Office XII. The landslide susceptibility map of the area shows that high landslide susceptible area along the slope of streams and creeks which is characterized by steep slopes. The rest of the area has low to moderate landslide susceptibility (Figure 5).

5. REGIONAL GEOLOGY

5.1. Regional Geologic Setting

Regional Geology of the area and vicinity belong to the Daguma Range and Maasin peninsula. Daguma Mountain Range is located to the southwest of Cotabato Valley and extends for 180 kilometers from Illana Bay and Cotabato City in the Northwest to the Sarangani Bay in the southeast. The northern portion of the range is a plateau with elevations of 300 meters above sea level.

Geologically, as shown in the entire Mindanao mainland including the groundwater basin (alluvial plains) in the Mt. Parker-Mt. Matutum in southern part of Mindanao, is part of the geotectonically active zone of the Philippine Fault that covers the entire eastern Mindanao area. Most parts of the mountainous slopes of the so called "Southern Mindanao Highlands" provinces are generally covered with a sequence of sedimentary rocks and volcanic flows of considerable old geologic ages. This is shown in Figure 6 and 7.

Arranged in decreasing geologic age, the following stratigraphic sequences are indicated:

5.1.1. Kiamba Formation

The entire formation is referred to as metavolcanics and metasedimentary rocks along narrow west trending belts on the southwest coast of southern Mindanao and Cotabato Cordillera Range and Kiamba. The formation consists principally of massive lava flows and flow breccias with local insertions of wackes and conglomeratic sandstones. These rock units crop out along the Kansan River in Kiamba and western cliffs of Maasin, Sarangani.

The lower part of the formation is apparently dominated by massive andesite and intercalations of basalt flows and flow breccias. The upper part includes the flow breccias and wackes. The sedimentary rocks, appearing on top, consist mainly of wackes and conglomeratic mudstones. The entire formation rests unconformably over the Salbuyon Schist.

5.1.2. Cablacan Formation

This formation, which is unconformable over Kiamba Formation consists principally of thick sequence of conglomerate, graywacke, quartzite and schistose marble. The formation is best exposed along the upper Kamanga River and Cablacan River. The volcanic and pyroclastic rocks in Kiamba and Maasim constitute part of this formation so that it may be divided into a lower volcanic member and an upper sedimentary member.

The volcanic rocks constitute the volcanic flows and flow breccias. The breccia fragments are generally cobble to pebble in size. The volcanic flow rocks consist mainly of andesites with dacitic influence in some localities.

The upper sedimentary member includes the sandstones, shales and limestones with local intercalations of andesite flows. The middle section of the unit is made up of limestone with lenses of wackes and shales. Slates and red cherts are exposed to prominent peaks of Kamanga River and are found near the upper strata of conglomerate.

The age of the entire formation is probably more than 800 meters in thickness and the age assigned is may be Early- Middle Miocene.

5.1.3. Kamanga Limestone

The formation is generally coralline to crystalline limestone, bedded to massive, and associated with beds of marly sandstone and conglomerate.

Recently uplifted reef limestone along the western coast of Sarangani Bay is covering the Siguel-Kamanga area. The limestone body seems to rest unconformably over the pyroclastics of the Parker Volcanic complex. The lower portion of the Kamanga limestone consists of conglomerate layers as may be derived from the volcanic rocks of the Parker volcanics. The limestone grades range from impure marl to purely coralline-type.

5.1.4. Quaternary Volcanics (Pliocene-Pleistocene)

The Quaternary volcanics, referred to as the young volcanic cones and flows, belongs to the Mt. Parker volcanic complex. The volcanic belt consists of a number of active, potentially active and dormant volcanoes and other volcanic satellites that includes Mt. Basa and Mt. Malibao that are disposed along a north-south trending structure from Cotabato Cordillera down to the southern highlands of Mindanao.

The volcanoes and other volcanic satellite centers in the area are formed from the extrusion and outpouring of lavas and other volcanic ejecta that were apparently produced as a result of partial melting of the Philippine Sea Plate along Mindanao segment of the Philippine Trench in the east and Cotabato Trench in the western part. Volcanism in the area could have commenced during Pliocene period and continuous up to the present time. The volcanic rocks extruded from these volcanoes are mostly calc-alkaline andesites with a small proportion of basalts.

The pyroclastic materials include the fine-coarse tuff, tuffites with intercalated lava and agglomerate flows.

5.1.5. Quaternary Alluvium

The alluvial plains are composed of recent sediments which were conveyed by major streams during episodes of floods and mechanical mobilization of pyroclastic blocks and other volcanic materials from the highlands. The alluvium consists mainly of admixtures of clay, sand and gravel with thin cover of ashfall beds in the coastal lowlands and mesas of the limestone formation in Tinoto and eastern section of Kamanga. In the lower Siguel River catchment, the alluvium often inter-fingers with the reworked pyroclastic flow materials so that the thickness of the combined deposits varies considerably over short distances.

The alluvial plains in the southwestern coast of Sarangani is concentrated along the lower catchment of Siguel River, which may be extended to about 7 kilometers eastward. Westward along the southern coast, a relatively thin strip (4 km-length) of this deposit is visible along north-south pattern of the Kamanga River channel.

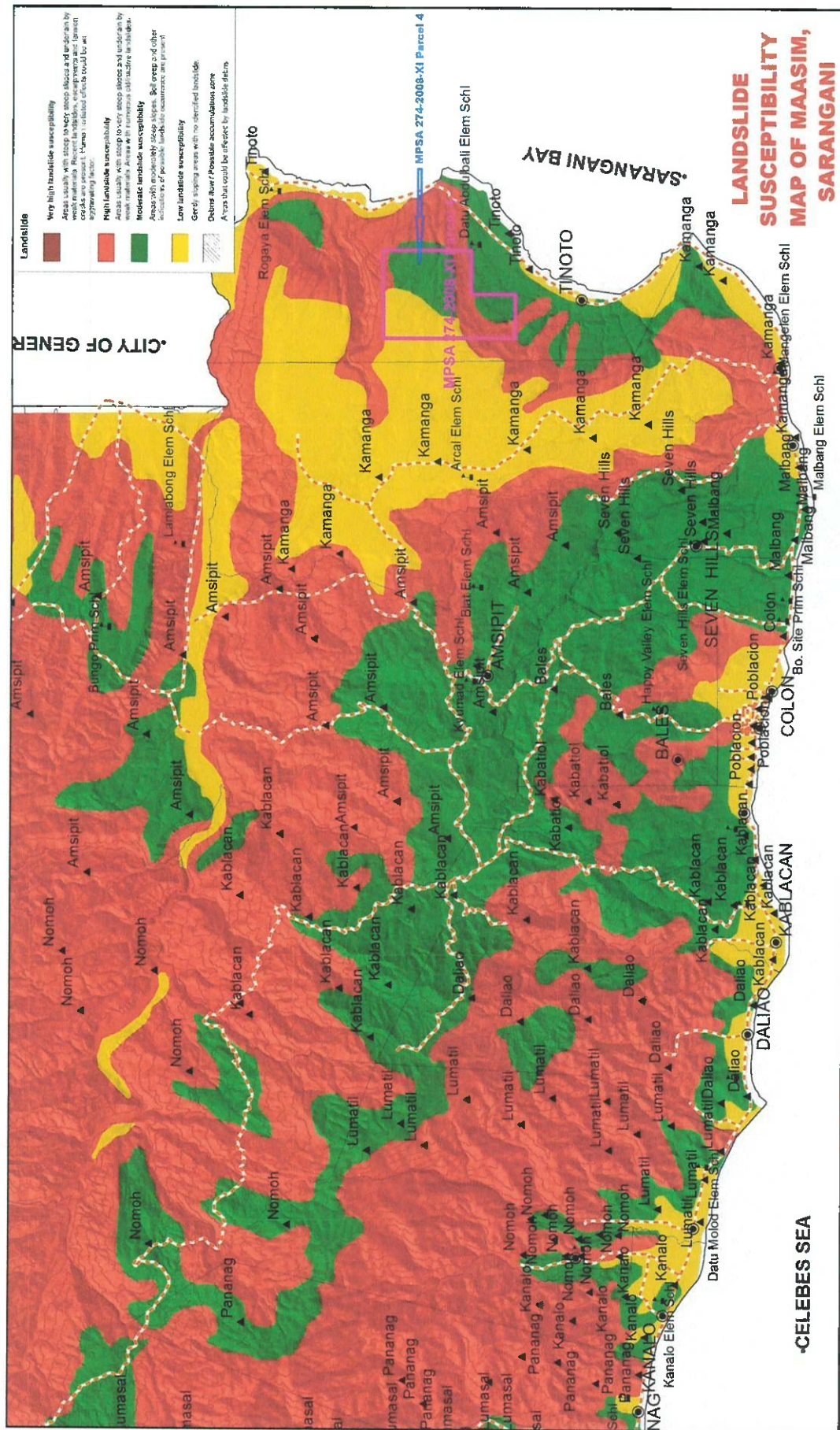


Figure 5. Landslide Susceptibility Map of Maasim, Sarangani

5.2. Regional Stratigraphy

Regional stratigraphy of Daguma Range and Sarangani Peninsula is shown in Figure 6. The dominant geologic formation is the Kamanga Limestone of Daguma Range which is also equivalent to the Gumasa Formation of Sarangani Peninsula.

Stratigraphic column for Daguma and Sarangani

PERIOD	EPOCH	AGE	Ma	DAGUMA RANGE	SARANGANI PENINSULA
NEOGENE	HOLOCENE			Matulas Gravel	Balut Volcano
	PLEISTOCENE	4 Late	0.0117	Kamanga Limestone	Gumasa Formation
		3 Middle	0.126		
		2	0.78		
		1 Early	1.81		
	PLIOCENE	2 Late	2.59	Sigul Formation	Buayan Formation
		1 Early	3.60		
			5.33		
	MIOCENE	3 Late	7.25	Allah Formation	Sulop Formation
			11.61	Tampayan Limestone	Glan Formation
		2 Middle	13.65		Pangyan Formation
			15.97	Tual Quartz Diorite	
		1 Early	20.43	Nakal Formation	Latian Limestone
				Cablacan Formation	Malita Formation
			23.03	Maganoy Formation	
PALEOGENE	OLIGOCENE	2 Late	28.4	Daguma Diorite	
		1 Early	33.9		
	EOCENE	4 Late	37.2		
		3 Middle	40.4		
		2	48.6		
		1 Early	55.8		
	PALEOCENE	3 Late	58.7	Kiamba Formation	
		2 Middle	61.7		
		1 Early	65.5		
CRETACEOUS	Upper	Late	99.6	Salbuyon Schist	
	Lower	Early			
JURASSIC	Upper	3 Late	145.5		
	Middle	2 Middle	161.2		
	Lower	1 Early	175.6		
			199.6		

Geologic Time Scale adopted from International Commission on Stratigraphy (2009)

Figure 7. Stratigraphic Column of Daguma Range and Sarangani

5.3. Regional Structures

Southern Mindanao is between two major active Trenches, the Philippine Trench in the East and the Cotabato Trench in the west. Nearest major fault in the area is the NW-SE trending Mindanao Fault Daguma extension, west and south of the area. Mindanao, is part of the geotectonically active zone of the Philippine Fault that covers the entire eastern Mindanao area (Figure 8).

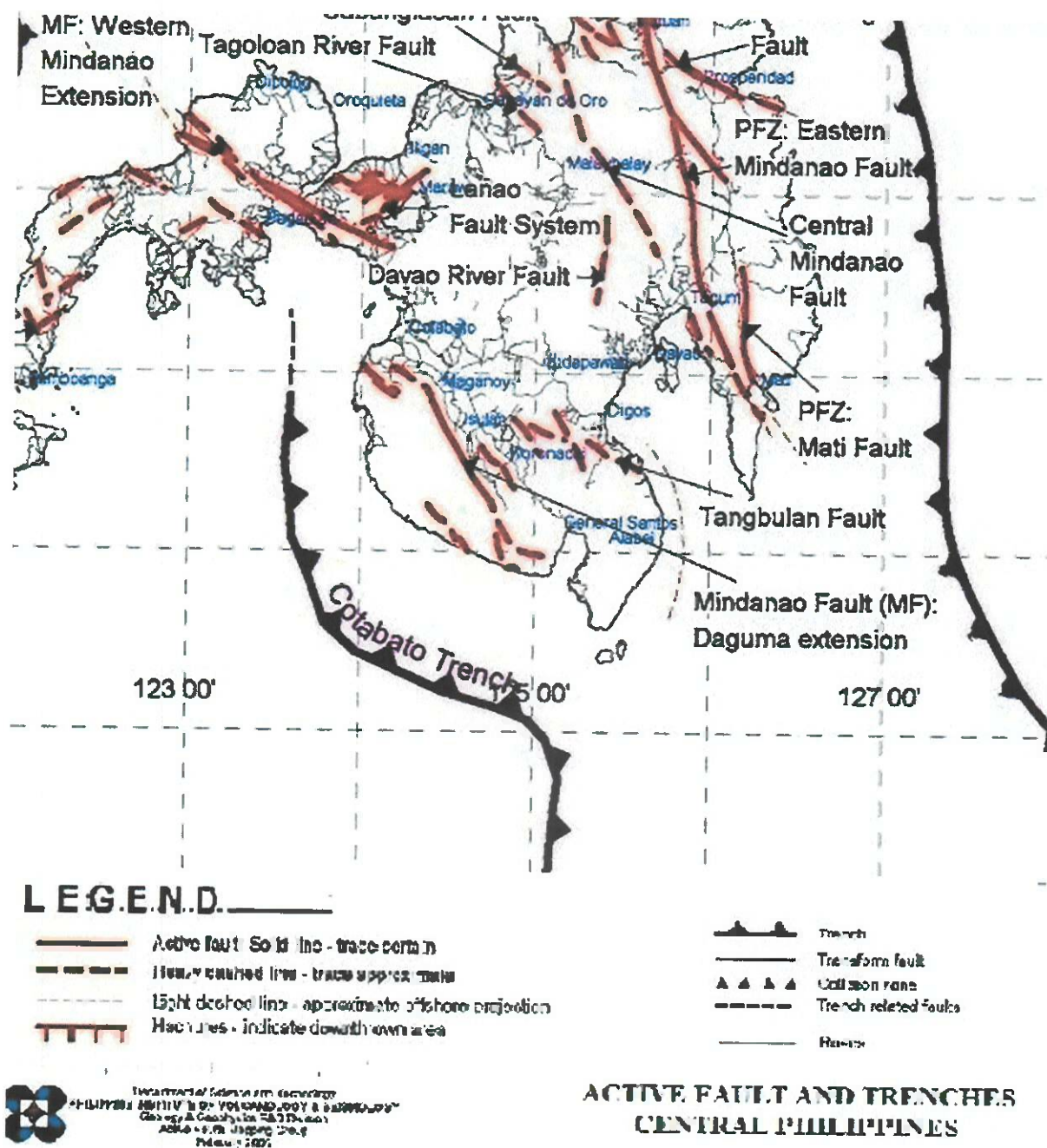


Figure 8.0 Regional Structures

5.4. Prospects and or Deposits

Similar Limestone bodies area found in Maasim and adjacent municipalities up to General Santos City. Small local quarries are found in these limestone quarries and are mostly used as construction and road filling materials. Gold mineralization is found in T'Boli, South Cotabato, located north of Maasim on the northern side of Mt. Parker. This gold mineralized areas has active small scale mining operation.

6. MINERAL PROPERTY GEOLOGY

6.1. Geography

The landforms of the southeastern catchment of Mt. Parker and the rest of southerly flow minor rivers and creeks in the western Sarangani, including the municipality of Maasim are primarily the product of several events of tectonism, erosion process, sedimentation and minor uplifts during Late Cretaceous period to recent times. They are primarily the products of structural separations (rifts) composed largely of clastic sequences, limestones, metamorphic clastics and fluvial sediments. Weathered transported deposits filled up the lowland areas and formed the alluvial plains fringed by river materials along drainage sections and low hills and knobs as remains from erosion and weathering of old sedimentary and metamorphic rock sequence.

The details of the structures, tectonics, volcanism and stratigraphic sequence may generally be defined in the following physiographic controls:

- Northern and northwestern rugged mountains
- Limestone Belt (Karstic topography)
- Highland Plateau (Kamanga Limestone)
- Terraced deposits
- Alluvial plains and reworked Pyroclastics

The alluvial plains in the lower stretch of Siguel River and along the narrow strips of Kamanga River channel immediately embrace the southern sloping topography of the southeastern catchment of Mt. Parker Highlands and the moderately rugged terrains of the chain of peaks of the northern divide of Kamanga River catchment. The rugged highlands are characterized by high relief, steep ridges and banks and dendritic drainage pattern. The eastern tableland of limestone and conglomerate that immediately embraces Tinoto Bay is bounded to the west by the eastern catchment of Kamanga River and its northern extension is cut by the southern divide of the lower Siguel River. The Plateau has no pronounced river systems so that minor drainages and creeks are subject to tidal fluctuations in the lower stretches. Braided creeks have no defined line of sink as they approach the coastal flood plain areas.

The topography of the general area of Siguel River Basin is highly dissected by moderate weathering with the formation of deeply incised V- to U-shaped valley systems (dendritic drainage pattern). The rugged highlands in the northern and northwestern sections are generally sloping to rugged with the highest elevations registered along a line of chain of peaks of Mt. Talumpong.

The terraced deposits prominently rise up at the lower catchment of Siguel River that immediately embraces the Limestone Plateau in Tinoto highlands and along left embankment slopes of Siguel River. It is characterized by moderately rolling to gently sloping ridge topography with steep escarpments along the valley system. Its lower eastern extension is concentrated along the immediate rolling strips of the coastal boundary between Maasim and General Santos City. The terraced deposits along its prominent escarpments have been signified by several levels of deposition that could indicate that the area had undergone several episodes of uplift.

6.2. LOCAL GEOLOGY

The area and vicinity is generally underlain with volcanic ash layers, fluvial sediments, mantle of weathered pyroclastic materials, limestone with insertions of conglomerates and metasediments of the rock sequence within the southeastern slopes of mountain range of Mt. Parker. Intermittent volcanic activity has probably deposited the cyclic sequence of the pyroclastic flow rock, volcanic ash layers and other alluvial materials under fluvial environment. From on-site investigation, the sandy layers of pyroclastic flow exposed on cliff-forming cuts may correspond to the sediments that have long been under sea water as evidenced by the presence of sea shells and minor corals. The grayish appearance of the layer looks unconsolidated with little stiffness on its groundmass. Beneath the sand layer, cyclic sequences of tuffaceous fragments and/or fine-grained derivatives of the weathered sedimentary sequence of probable conglomerate/limestone interbeds of Kamanga Limestone formation. Coarse-grained fragments that occupy the area of the slopes may be referred to the deposition of transported agglomerates, which are highly weathered and loosely cemented and poorly consolidated. The thin beds of the fine-grained materials correspond to the tuffaceous sand with clayey to silty matrices.

Elsewhere in the moderately slopes of , the volcanic ash beds of probable recent volcanic activities, which are common in the lowlands of Tinoto and in the general vicinity of the southern slopes of Kamanga are relatively thinner in appearance as the layers are sequentially intertongued with the limestone and conglomerate units. The limestone beds are generally coralline to crystalline and are associated with beds of marly sandstone and conglomerate. The entire rock formation however exhibit slight to moderate stiffness and is generally massive and bedded. Exposed typical limestone layers are often seen along road cuts of the Maasim- General Santos High Way in Tinoto and Kamanga and along embankments of creeks and minor rivers systems that occupy the Kamanga-Tinoto area.

The coarse-grained reworked sediments (pyroclastic and volcanic rock origin), including sand beds of the alluvial plains comprise the water-bearing layers for shallow groundwater extraction in the lower Siguel River catchment. Along the flood plain of Kamanga River, a 4-km strip of alluvial deposit, consisting mainly of sand and gravel materials may offer good potential for shallow groundwater extraction.

The MPSA area is totally underlain by Kamanga Limestone (Figure 9). The formation is generally coralline to crystalline limestone, bedded to massive, and associated with beds of marly sandstone and conglomerate. The lower portion of the Kamanga limestone consists of conglomerate layers as may be derived from the volcanic rocks of the Parker volcanics. The limestone grades range from impure marl to purely coralline-type.

6.3. Geologic Structures

The regional fault and/or large-scale geologic structure identified by PHIVOLCS near the Study Area is the main Western Mindanao Fault (Daguma Extension). This geologic structure generally trends NW-SE and is approximately about 30 km north

of its southern tail end from Kamanga River as shown in Figure 7. Its eastern splay extension encompasses the lower Siguel River Basin, which serves as northern boundary of barangay Tinoto in Maasim.

In so far as the Daguma Extension Fault is concern, which traverses the northwestern clip of the Siguel River Basin, there were only few recorded movements along the said area. Ground movements arising from deep-seated earthquake of tectonic origin could cause considerable ground shaking in the area. The ground shaking could eventually lead to differential settlement and/or liquefaction of loosely consolidated and/or partly compacted pyroclastic materials and sedimentary units underlying the basin.

The southerly flow (lower channel) of Kamanga River is also faulted on more or less north-south direction. Its main fault system, which runs on northwest-southeast trend, just like Daguma Fault, traversed the northwestern highlands of Maasim. It is also possible that this fault is a southern extension of the Daguma Fault.

7. EXPLORATION

7.1. Exploration Activities

The project area was previously covered by quadrangle mapping by Mines and Geosciences Bureau and Identified the vast limestone resource in the area. Exploration activity by HMDC consist of lithologic mapping and sampling, Test Pitting, Topographic Survey and Diamond Drilling.

7.1.1. Geologic Mapping

Semi-detailed to detailed geologic mapping was conducted in the MPSA area by Holcim geologist. The MPSA area was mapped to be entirely underlain by Limestone belonging to Kamanga Limestone which is a recently uplifted reef limestone along the western coast of Sarangani Bay and covering the Siguel-Kamanga area. The limestone grades range from impure marl to purely coralline-type.

7.1.2. Rock Sampling

7.1.2.1. Outcrop sampling

During the course of the semi-detailed to detailed geologic mapping of the area a total of 46 outcrop samples were collected. Thirty four (34) of the samples were sent for chemical ananalysis for its moisture content, SiO_2 , Al_2O_3 , Fe_2O_3 , CaO , MgO , SO_3 , K_2O , Na_2O , and CaCO_3 . Six (6) of the outcrop samples were sent for petrographic analysis and four (4) for paleontological analysis to the Mines and Geo Sciences Bureau. Sample location for the surface samples is shown in Figure 10.

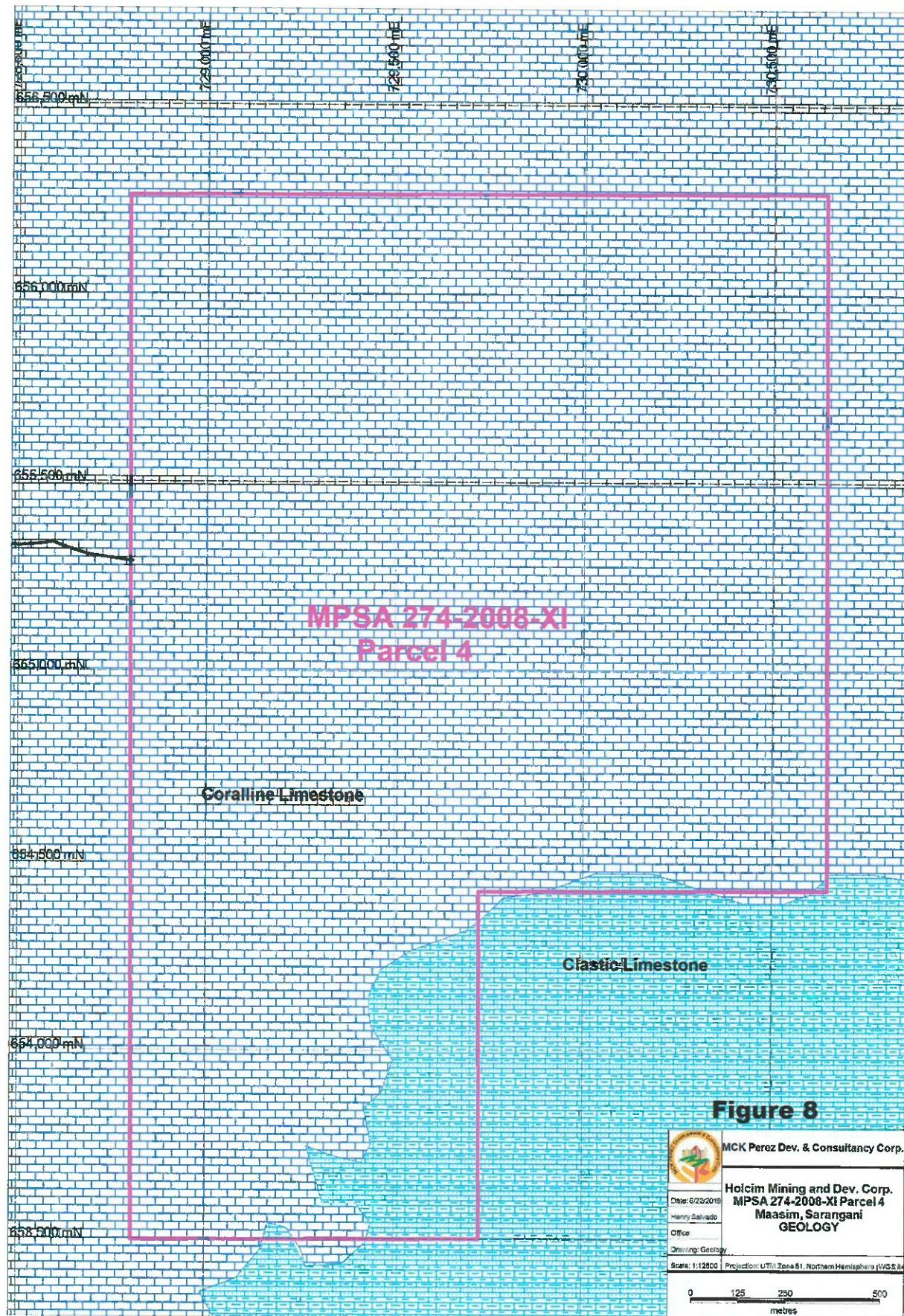


Figure 9.0 Geologic Map of Project Area

7.1.2.1.1. Result of Chemical Analysis Outcrop Samples

Thirty four of the outcrop samples were analysed for its oxide content at Holcim Laboratory in Lugait, Missamis Oriental. Result of analysis is attached as Appendix 3 and statistical analysis of the samples are in Table 2 below.

Two of the samples yielded low CaCO_3 as these are samples of conglomerate in the area and therefore returned a high SO_2 content. All the surface limestone samples passed the criteria of Holcim for use as raw material for its cement plant which are CaCO_3 should be greater than 46%, MgO_3 should be less than 2% and SO_3 not greater than 0.2%. The high MgO_3 came from Argillaceous Marl and Calcareous Marl samples which can be segregated during mining activity.

Table 2 Statistical Table Surface Samples

Surface Sample Statistics	Moisture %	SiO_2 %	Al_2O_3 %	Fe_2O_3 %	CaO %	MgO_3 %	SO_3 %	K_2O %	Na_2O %	CaCO_3 %
Count_n	34	34	34	34	34	34	34	34	34	34
Minimum	0.2	0	0	0.23	10.65	0.45	0.03	0	0	19.06
Maximum	8.6	66.16	17	7.48	55.93	6.05	0.32	1.05	6.23	100.11
Mean	1.10	4.31	1.36	0.93	49.75	2.12	0.10	0.06	0.59	89.06
Median	0.60	0	0.14	0.47	52.40	1.31	0.06	0	0.18	93.80
Variance	2.54	202.43	14.43	2.61	105.90	2.47	0.01	0.05	2.03	339.34
Standard Deviation	1.59	14.22	3.80	1.62	10.29	1.57	0.08	0.23	1.42	18.42

7.1.2.1.2. Result of Petrographic and Paleontological Studies

Petrographic analysis were undertaken on the Six (6) outcrop samples by the Mines and Geo Sciences Bureau, Land Geological Survey Division. Five of the samples were identified as Biomicrite and one as Biosparite in contact with Marl (Appendix 4).

Only one of the four (4) samples for paleontological analysis by the Mines and Geo Sciences Bureau, Land Geological Survey Division yielded a fossil. The fossil identified is a corral fragment but is still undiagnostic (Appendix 5).

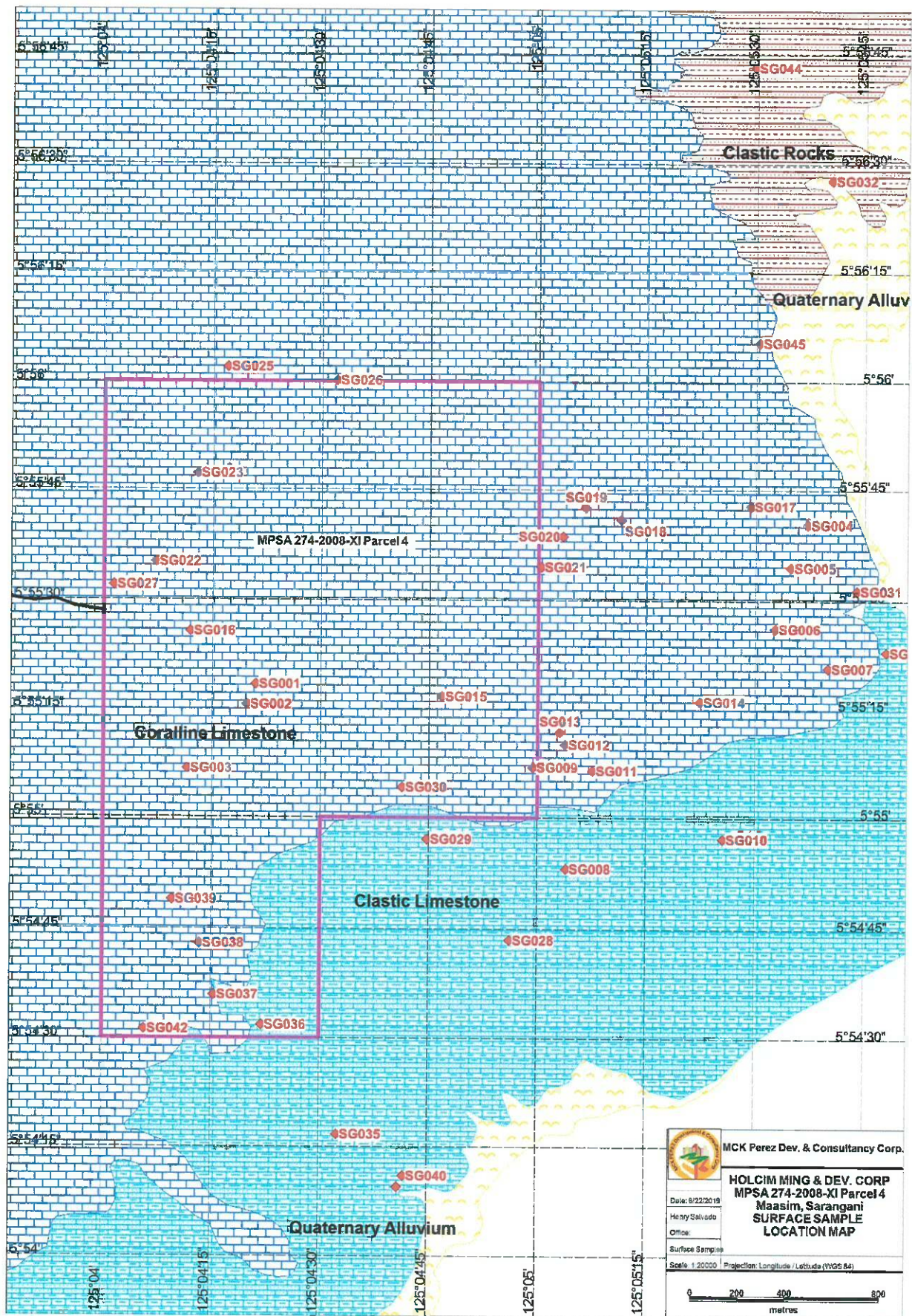


Figure 10. Surface Sample Location

7.1.3. Diamond Drilling

Diamond drilling campaign was undertaken in the area for resource definition of the Limestone deposit. Total of ten holes was drilled from June 2016 to December 2017. Construction and Drilling Specialist Inc. (CDSI), a drilling contractor from Davao City was the drilling contractor and it used a Longyear 38 double tube wireline system HQ to NQ core (Photo 1) drill rig.

Drill Hole Statistics is shown in Table 3 and collar locations plotted in figure 11.

Table 3 Diamond Drill Hole Statistics

Hole ID	Northings PR92 Z5	Eastings PR92 Z5	RL (m.)	Azimuth Degrees	Dip Degrees	Depth (m)	No. of Samples	Total width of Sampling (m)
SGN-01	655,956.22	508,381.37	119.80	0	-90	119.80	97	95.95
SGN-02	655,954.50	508,654.76	119.70	0	-90	119.70	80	108.75
SGN-03	655,435.94	507,760.72	200.00	0	-90	200.00	120	191.25
SGN-04	655,502.83	508,371.68	179.45	0	-90	179.45	104	173.55
SGN-05	655,372.36	508,940.95	181.70	0	-90	181.70	107	171.95
SGN-06	654,881.36	507,768.11	149.50	0	-90	149.50	95	140.80
SGN-07	654,820.72	508,318.93	119.50	0	-90	119.50	89	117.50
SGN-08	654,820.23	508,878.47	150.00	0	-90	150.00	88	141.70
SGN-10	654,743.84	508,400.69	119.60	0	-90	119.60	82	110.20
SGN-11	654,609.72	508,791.84	100.00	0	-90	100.00	57	98.90
Total	10 Drill Holes					1,439.25	919	1,350.55



Photo 1 Diamond Drilling Activity Set-up

7.1.3.1. Collar Survey

Survey of drill hole locations and was carried out by Nth Geographics and Geometrics, (HPI surveying contractor) from Davao City. Survey was done using Leica Flexline TS0651000 and Leica Flexline TS064R00 Total Stations, US Handheld Nautiz X7 and Leica GS09/GS14 GNSS (GPS + GLONASS) GPS units. Upon completion of drilling, clearing and rehabilitation of sites were accomplished and concrete bore hole monuments were established as markers on the location of drill holes. Re-survey was also conducted to define the actual locations of holes after drilling. (Photo 2 to 5).



Photo 2 SGN-7 Drill Hole Collar



Photo 3 SGN-8 Drill Hole Collar

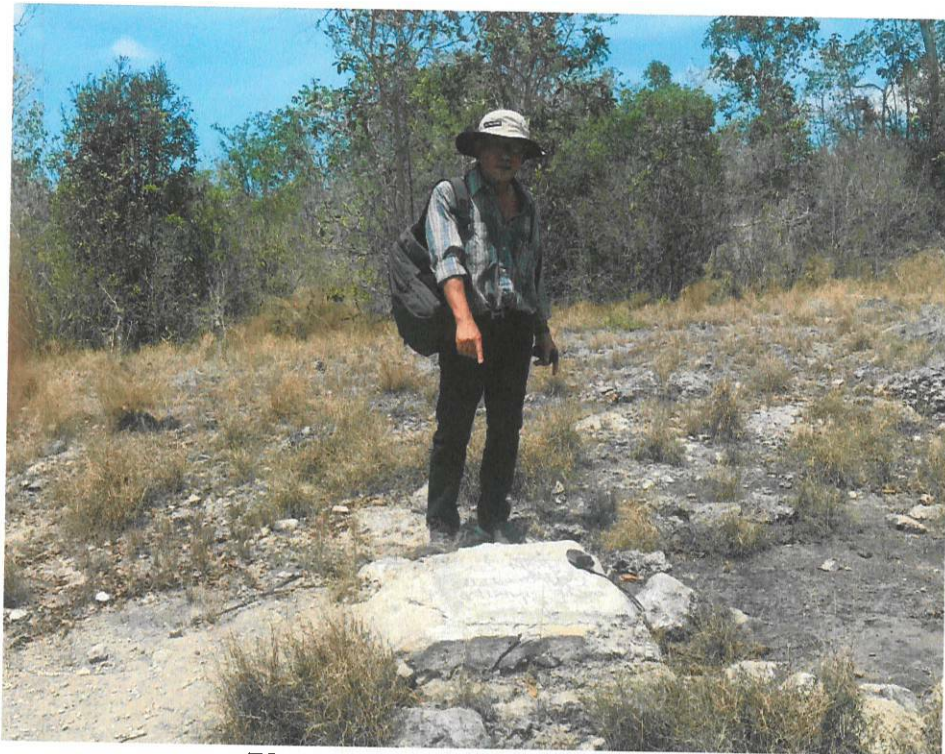


Photo 4 SGN-9 Drill Hole Collar



Photo 5 SGN-11 Drill Hole Collar

7.1.3.2. Drill Core Logging

Drill core logging was undertaken by Holcim geologist at Holcim field office in General Santos City (Photo 6 to 8). The core logging classified the rock types into the following:

- Argillaceous Limestone
- Arillaceous Marl
- Calcareous Mud
- Calcareous Marl
- Limestone
- Marl
- Slightly Argillaceous Limestone
- Slightly Arillaceous Marl

Data was written on company logsheets and later encoded on an excel spreadsheets to come up with a drill hole database of the drilling activity. All other data of the drilling activity (Collar data, Lithology and analytical results) were combined into one database and exported into an access database for later use in resource calculations.

7.1.3.3. Drill Core Sampling

Cores obtained from the 10 drillholes with a total meterage of 1,439.25 meter was sampled and sent for analysis. Total of 919 samples was taken with an aggregate of 1,350.55 meter for a 93.84% sampling of the core. Sampling was separated by rock types with a minimum sampling width of 0.15 meters and maximum sampling width of 2 meters (Photo 9).

All the half cores from the drilling activity were transported to Holcim Davao City Cement Plant for core storage (Photo 10).

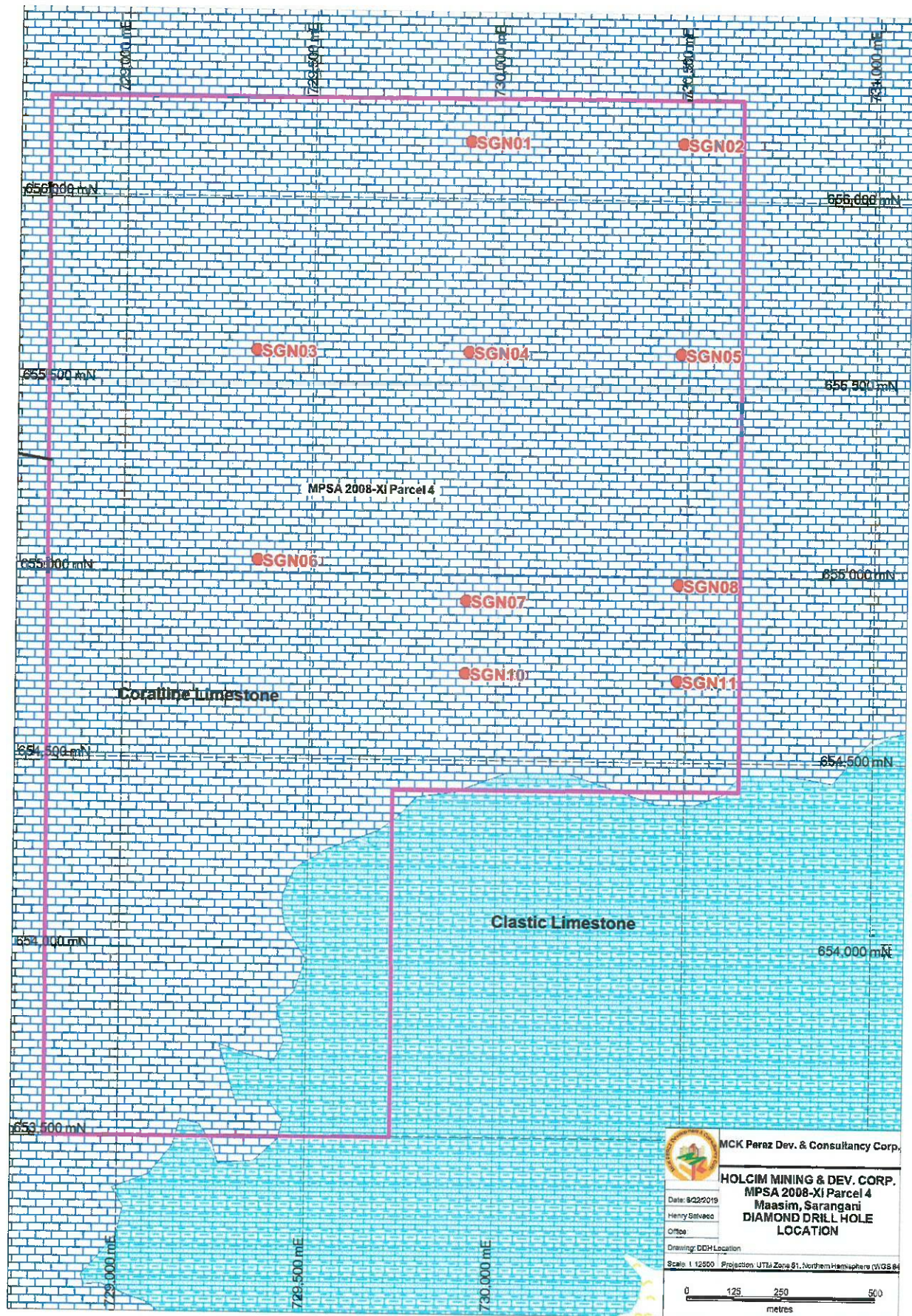


Figure 11. Diamond Drill Hole Collar Location Map



Photo 6 Core From SGN-04



Photo 7 Core From SGN-10



Photo 8 Core From SGN-11

7.1.3.4. Sample Preparation and Analysis

Each core was cut by a diamond saw for hard solid core and by splitting by spatula for soft core. Half of the core was placed back in core box for archiving (Photo 14 and 15). The other split half was dried overnight in an oven at temperatures of 50°-200° C°. After drying, it was then crushed to 5-10 mm size fragments and then dried again. The crushed fragments were quartered and the bulk of the sample is placed in a bag as reference samples. About 200-300 grams of the split is pulverized further. The pulverized sample is divided further into two; the other half is kept for reference. Processed core samples were then sent to SGS Australia for chemical analysis using X-Ray Fluorescence (XRF) method. Sample preparation flow chart is shown in Figure 12.



Photo 13 Half Core From SGN-01 kept in storage

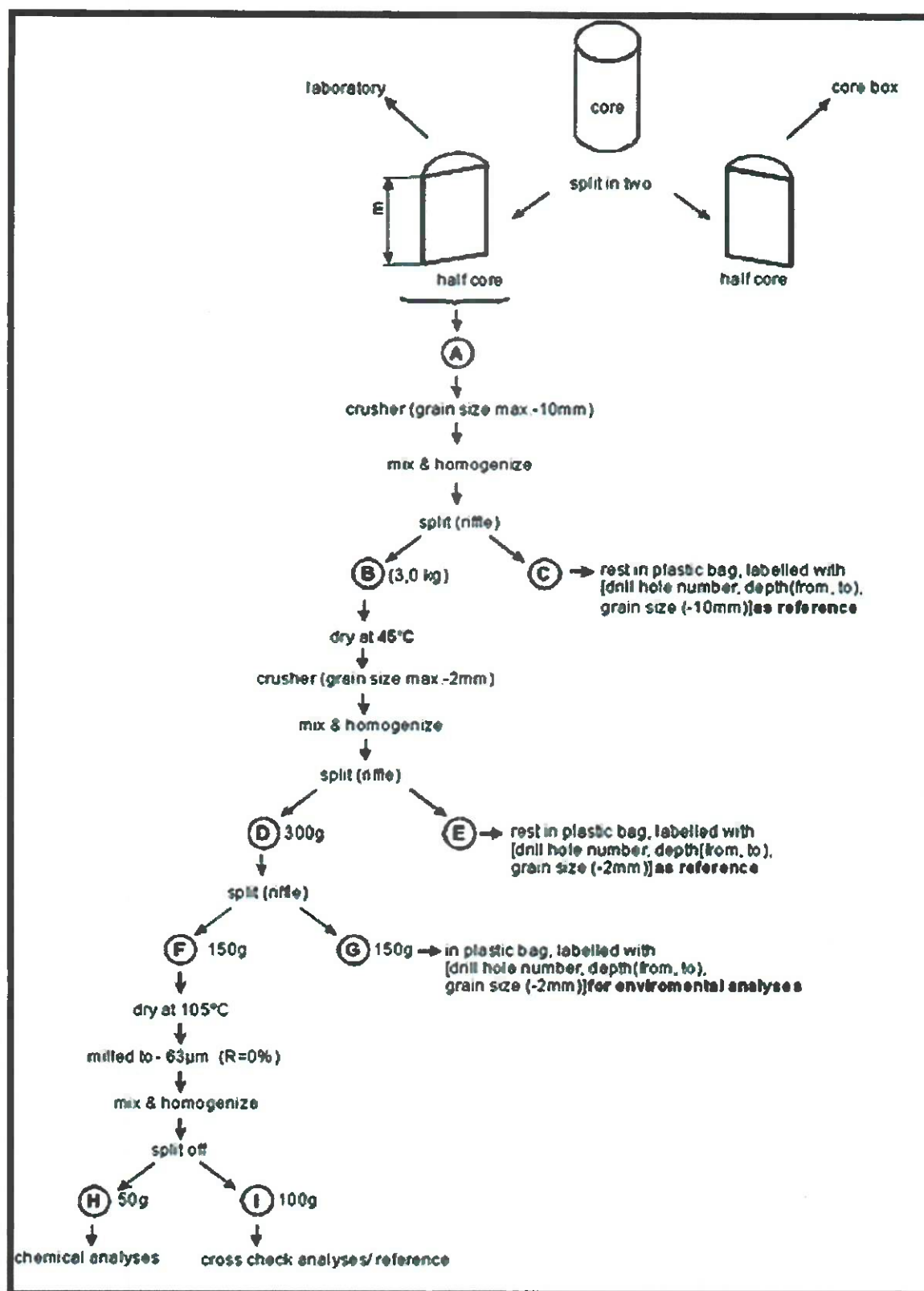
7.1.2.1. Sample QC & AC

To ensure the integrity of the assay data, duplicate analysis were undertaken at random per dispatch. Samples were sent to SGS Australia in order to ensure unbiased and proper analysis. Three batches of samples were dispatched for chemical analysis; a total of 21 duplicate samples were analyzed by SGS from the said dispatches. Result of the analysis of the duplicate samples show strong positive correlation on all oxides and elements analyzed. Selected samples were also sent to Holcim Technology Ltd. (formerly HGRS) for cross check and environmental analyses.



Photo 15 Core from Sarangani Drilling exercise stored at Holcim Dayao

Figure12. Sample Preparation Flow Chart



7.1.2.2. Result of Analysis

A total of 919 core samples were collected from the drilling campaign. All drill core samples were analysed for twelve major oxides namely SiO₂, Al₂O₃, Fe₂O₃, CaO, MgO, SO₃, K₂O, Na₂O, TiO₂, Mn₂O₃, P₂O₅ and Cl. Moisture content (LOI) was also measured on all the samples. Statistics on the result of analyses on these samples is shown in Table 4.

Mud and Marl samples as expected returned less than 46% CaO which is the cut-off CaO content for it to be use as raw material in cement manufacturing. The murl and mud can be segregated and not mined during actual mining and would not be sent out to the cement plant. There is just 29 samples of these rock type or just 3% of the total samples. Mean Value for CaO is at 50.65% with the highest at 54.7%.

The SO₃ content of limestones should less than 0.2% for it to be amendable for use as raw material for cement plant. Total of 51 or 6% of the core samples returned SO₃ above 0.2% with the highest at 1.43%. The high SO₃ content are found predominantly in the slightly Argillaceous Limestones at deeper depth (>100 meters from surface). Mean SO₃ values is at 0.068% and Median at 0.04%. These mean that the limestone passes the criteria in terms of SO₃ content as the high SO₃ limestones can be blended with the other limestone with low SO₃ content.

The MgO content has a mean value of 2.26%. The MgO content should be just up to 2% for use as raw materials for cement manufacturing. The high MgO values are also found in the Mud and Murl samples up to 6.68%. The murl and mud can be segregated and not mined during actual mining and would not be sent out to the cement plant as they also have a low CaO content.

7.1.3. Density Measurement

A total of 20 core samples were taken for specific gravity measurement of the limestone deposit in the area. Two samples from different depths were taken from each drillhole in order to have a good representation of the specific gravity for the whole deposit. Density measurements were done at the site by the Company's Geologist.

Prior to core splitting, the length of each sample was measured using a Vernier caliper. The volume of each sample was calculated using the formula:

$$V = \pi r^2 h$$

The mass of each sample was taken using a digital pan balance and the density is calculated using the formula:

$$\text{Density} = \frac{\text{mass (in grams)}}{\text{volume (in cm}^3\text{)}}$$

The average density calculated for the samples is 2.11, as seen on the Table 5 below:

Table 4. Drill Samples Statistics on Result of Analysis

Field	Al ₂ O ₃	CaO	Cl	Fe ₂ O ₃	K ₂ O	MgO	MnO	Na ₂ O	P ₂ O ₅	SiO ₂	SO ₃	TiO ₂	LOI
	%	%	%	%	%	%	%	%	%	%	%	%	%
Minimum	0.02	4.35	0.001	0.03	0.01	0.52	0.01	0.01	0.01	0.07	0.01	0.01	7.14
Maximum	18.1	54.7	0.141	9.79	2.98	6.68	0.14	3.6	0.26	54.7	1.43	1.03	44.7
Mean	0.7756	50.6474	0.0023	0.4052	0.0862	2.2660	0.0126	0.0791	0.0627	2.6297	0.0684	0.0432	42.4114
Median	0.3	51.8	0.001	0.17	0.03	2.2	0.01	0.04	0.06	1.05	0.04	0.02	43.5
Range	18.08	50.35	0.14	9.76	2.97	6.16	0.13	3.59	0.25	54.63	1.42	1.02	37.56
Variance	4.1501	37.8818	0.0001	1.2120	0.0868	0.7670	0.0002	0.0502	0.0005	43.0040	0.0168	0.0120	20.6001
Standard Deviation	2.0372	6.1548	0.0072	1.1009	0.2946	0.8758	0.0138	0.2240	0.0225	6.5577	0.1295	0.1093	4.5387
Percentile 90	1.084	53.14	0.005	0.54	0.1	3.194	0.01	0.11	0.08	3.894	0.11	0.06	43.9
Geometric_Mean	0.3577	49.7746	0.0013	0.1975	0.0355	2.1041	0.0109	0.0448	0.0600	1.2329	0.0395	0.0232	41.9418

Sample No	Length (cm)	Radius (cm)	K	Volume (cm ³)	Mass (g)	Density (g/cm ³)
SGN01-05	1.5	4.25	3.1416	85.117725	195.0	2.290944689
SGN01-15	2	4.25	3.1416	113.4903	236.7	2.085640799
SGN02-04	2	4.25	3.1416	113.4903	217.8	1.919106743
SGN02-66	1.6	4.25	3.1416	90.79224	205.6	2.264510711
SGN03-27	1.8	4.25	3.1416	102.14127	224.0	2.193041069
SGN03-71	1.5	4.25	3.1416	85.117725	194.2	2.281545941
SGN04-09	1.65	4.25	3.1416	93.6294975	201.1	2.147827398
SGN04-40	1.6	4.25	3.1416	90.79224	197.7	2.17749887
SGN05-25	1.7	4.25	3.1416	96.466755	198.3	2.05563046
SGN05-95	1.6	4.25	3.1416	90.79224	204.5	2.252395139
SGN06-09	1.9	4.25	3.1416	107.815785	215.0	1.994142138
SGN06-64	2	4.25	3.1416	113.4903	231.4	2.038940773
SGN07-06	2	4.25	3.1416	113.4903	227.9	2.008101133
SGN07-32	2	4.25	3.1416	113.4903	207.1	1.824825558
SGN08-19	2	4.25	3.1416	113.4903	214.2	1.88738597
SGN08-55	1.4	4.25	3.1416	79.44321	185.7	2.337518839
SGN10-11	1.6	4.25	3.1416	90.79224	202.6	2.23146824
SGN10-39	1.8	4.25	3.1416	102.14127	211.4	2.069682509
SGN11-05	2	4.25	3.1416	113.4903	236.5	2.083878534
SGN11-43	1.7	4.25	3.1416	96.466755	207.8	2.154109983
					Average	2.11

Table 5. Density Measurement Data

8. MINERAL RESOURCE ESTIMATE

8.1. Historical Resource Estimate

No resource calculation has been undertaken in the project area and this is the first resource calculation of the limestone resource potential in the MPSA 274-2008-XI Parcel 4.

8.2. Database Used

Data from the diamond drilling campaign was used in the resource estimation. Since the entire MPSA area was mapped to be underlain by Corraline Limestone, there is no need to put a lithological boundary and global resource calculation of the entire area was employed. Topographic map generated from the topographic survey of the area was used. Total of 919 core sample analysis data was used from the 1439.25 meters of diamond drilling in the MPSA area.

8.3. Integrity of Data

A total of 1,101 core samples was collected and were prepared and then subjected to X-Ray Fluorescence to analyse for major oxides. Core recovery for these samples is greater than 90%. Core samples from the drilling campaign (919 samples) were sent to SGS Australia. Duplicate and check samples were analyzed at the QA Laboratory of HPHI Lugait Plant. Result of analysis from both labs were received as soft copy and secured PDF hard copy. Soft copy was merged with the project database containing the drill hole, sample numbers and sampling interval. The drill core samples were analysed at SGS Australia whose products and services comply with global standards and expert in their fields.

Drill hole locations were surveyed by an independent surveying contractor. And also did a topographic survey of the area and produced a topographic map.

The collection, compilation and handling of data was of industry standard.

8.4. Data Validation and Verification

Drill hole database used was validated and verified on Mapinfo/Discover drillhole module. There was a gap in the sampling interval which was attributed to lost core during drilling activity. Encoded result of analysis was verified from the hard copy of SGS result of analysis. Random check on sampling interval was undertaken on core in the core storage house (Photo 9 and 10) and from core photographs. Drill hole log was verified on the core at the core storage and from drill core photographs.

8.5. Average Grade and Cut-off

The average grade of CaO on the core samples from diamond drilling is at 50.65% CaO. At a cut-off grade of 46%, weighted average grade is at 51.77% CaO. Ninety five percent (95%) of the core samples has CaO of greater than 46%. Samples with low CaO are Mud, Calcareous Mud, Marl and Calcareous Marl samples and can be eliminated during actual mining.

The average grade of SO₃ content of all core samples from diamond drilling is at 0.07% SO₃. This means that the whole limestone deposit passed the criteria in terms of SO₃ content which should be less than 0.2% SO₃.

MgO₃ average is at 2.2% which is slightly higher than the required in the cement plant which MgO₃ content should be less than 2%. The high MgO₃ is also from the mud and marl samples from the drill core and can be selectively eliminated during mining.

8.6. Mineral Resource Estimation (Methodology)

Cores retrieved from the drillholes reveal that the whole area is underlain by limestone from the top to the bottom of the hole. This is strongly correlated to the result of

surface mapping that the whole area is all underlain by limestone deposit of the Kamanga Formation.

Using the detailed topographic map generated by the topographic survey of the area, along with new set of data generated from the detailed geologic mapping, the topography of the project site is characterized karst topography. The area has thin soil cover, thus depicting ground surface configuration of the limestone body. The surface terrain is therefore an important parameter considered in this process of resource estimation.

Location of the drillholes was done by a qualified geodetic engineer and survey results were reported in PRS 92. Cross-sections were constructed based from the borehole logs and topographic profile. Together with the complete chemical analysis, these data were utilized for the generation of the geology of the deposit which is simply that the whole body is a limestone deposit. A resource model was generated using Surpac mining software. Blocks were generated inside the resource model and CaO and MgO grade was calculated. All relevant data were compiled in an exploration database which includes collar position, assays, lithology and topographic data and other data as deemed necessary for creating the geologic model for calculation of the resource.

8.7. Resource Model

An exploration database containing collar and assay data were prepared and imported in Surpac. SHP files (ArcGIS format) of tenement boundary, geology, roads and stream were also imported in the software. The geological model was created by correlating all these data to create solids. The topographic surface was considered as the top boundary for calculation of resources since overburden is very minimal. On the other hand, the bottom elevation of calculated resource is bounded by the bottom elevation of the drillholes. The measured resource is confined to the boundary as shown in Figure 13 as the whole area is underlain by limestone based on surface mapping and diamond drilling. The Limestone body is massive body and there is a continuity of it between drill holes as indicated by the surface mapping. There is great confidence in outlining and creating the 3D solid model because of this nature of the deposit.

8.8. Mineral Resource Estimate

The resource comprises all limestone material which meets the quality parameters as prescribed by Holcim's standards. The resource is classified as indicated resource following the PMRC standard. It was classified all as indicated resource as drilling was not closely spaced but the whole area is underlain by limestone based on surface mapping and there is continuity of it between drill holes.

The following parameters were used in the resource estimates:

1. Cut-off grade – Cao = 46% and MgO 2%
2. Average Specific Gravity of silicified materials – 2.11

Resource calculation from the generated blocks shows a total resource of **411 Million Metric Tons with an average grade of 51.69% Cao and 2.16% MgO**. The average grade obtained from the resource calculation is very near the average grade of the core samples.

Plan and 3D view of the resource is shown in Figures 13 to 15.

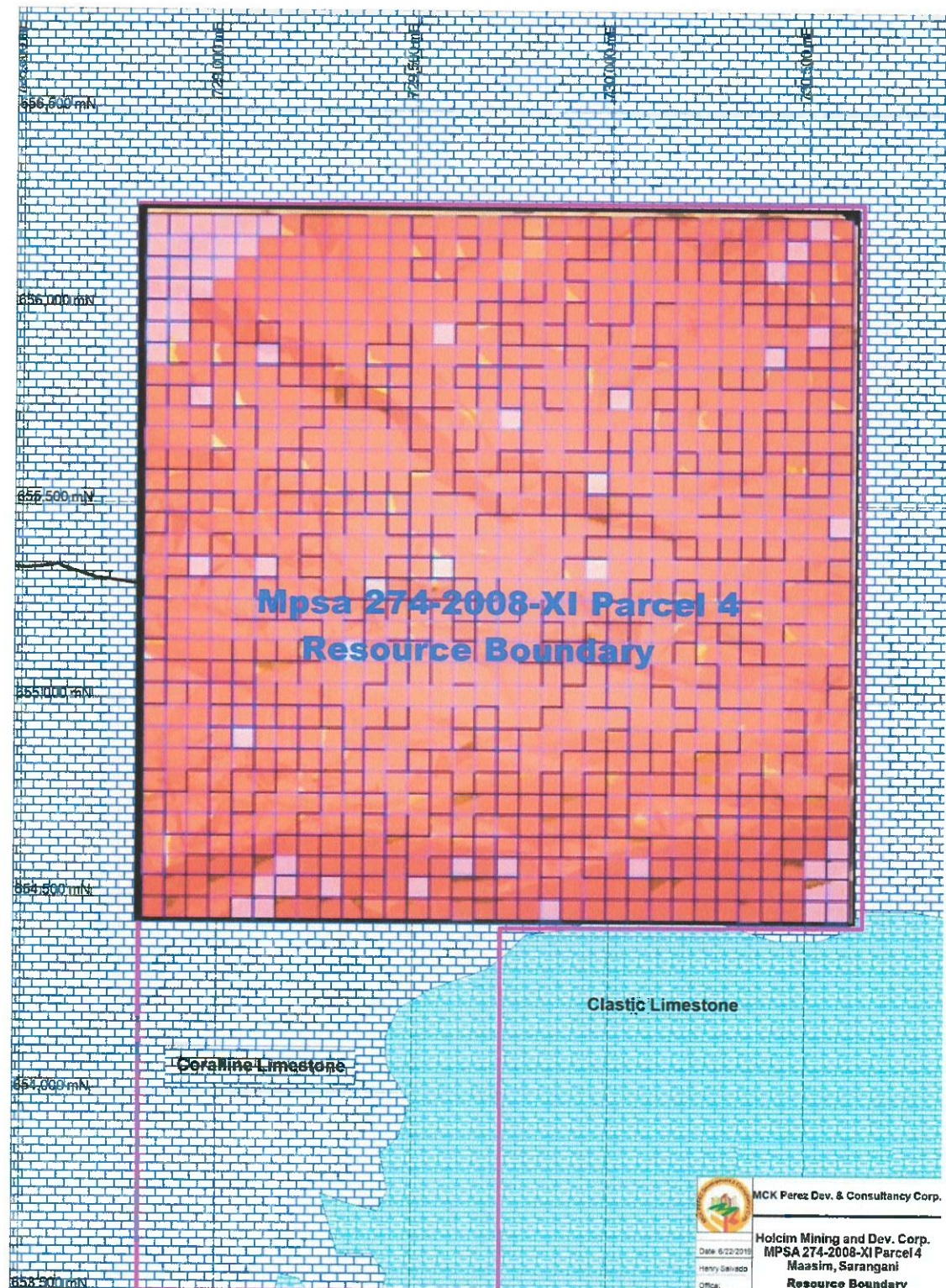


Figure 12 Plan View of MPSA 274-XI Parcel 4 Resource Boundary

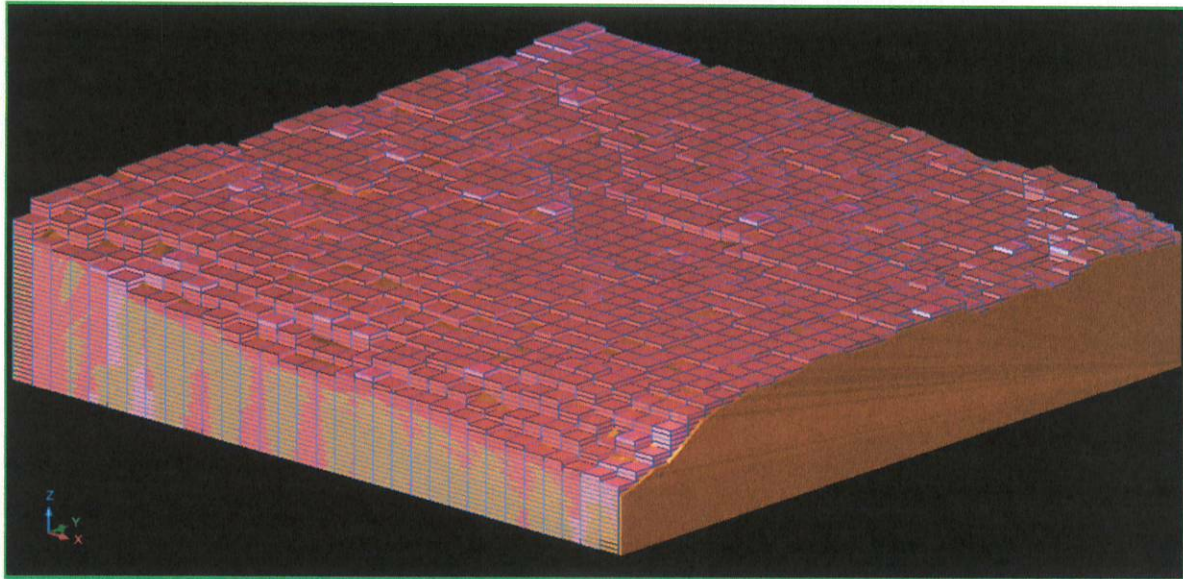


Figure 13 View looking Northwest of MPSA 274-XI Parcel 4 Resource

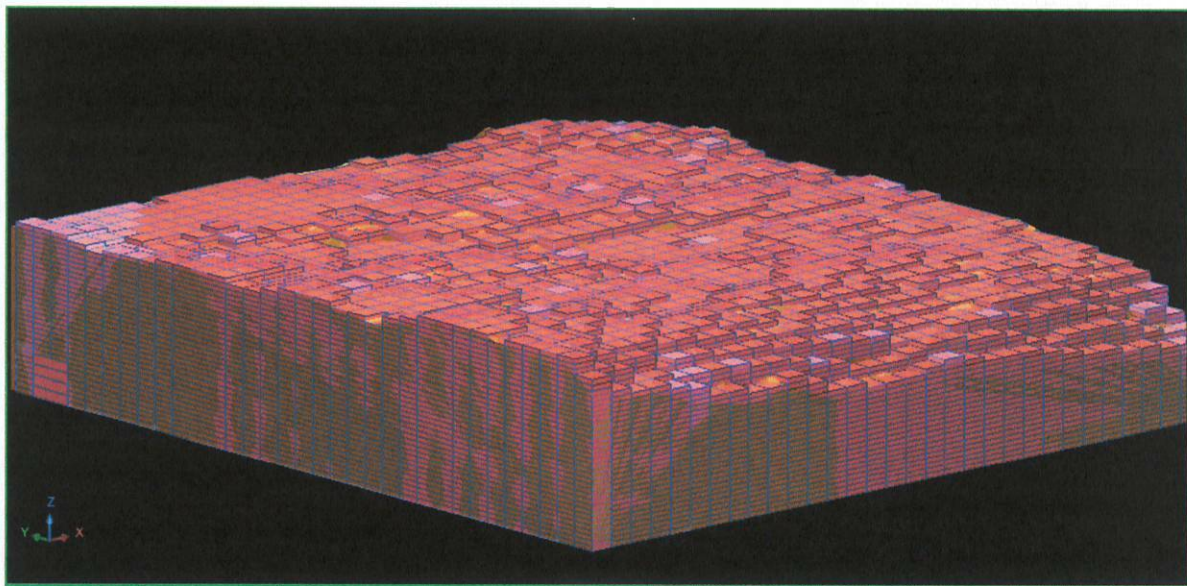


Figure 14 View looking Northeast of MPSA 274-XI Parcel 4 Resource

9. CONCLUSIONS

Surface exploration in the MPSA MPSA 274-XI Parcel 4 area in Maasim, Sarangani Province shows that the whole MPSA area is underlain by Limestone belonging to the Kamanga Formation. Subsurface exploration by Diamond drilling reveals the persistence of the Limestone deposit at depth to be more than 200 meters in thickness. CaO and other oxide content of the deposit pass the standard of Holcim Philippines for its raw material in cement production with MgO exhibiting slightly above standard.

Resource estimation of the Limestone resource, based on the exploration data gathered and using Surpac mining software generated an indicated resources of 411 Million Metric Tons with an average grade of 51.69% Cao and 2.16% MgO. The resource is more than enough

to make the project economically feasible for Limestone extraction for use as a raw material in Holcim Philippines cement manufacturing in Davao.

10. RECOMMENDATIONS

The present resource is enough to supply Holcim Philippines Davao operation Limestone for its raw material for its cement production. Additional drill holes would upgrade the resource into a measured category but is not deemed necessary as both surface and sub-surface exploration showed that the limestone deposit covers the whole MPSA area and there is continuity of the deposit between drillholes.

