

**NOTAS:**

1. **GEORREFERENCIA DEL PLANO:**  
EL PLANO ESTA GEORREFERENCIADO UTILIZANDO EL SISTEMA DE COORDENADAS UTM WGS84, CORRESPONDIENTE A LA ZONA 17N.
2. **UNIDADES DEL PLANO:**
  - LAS GRILLAS EN ESTE PLANO ESTAN EN KILOMETROS (km).
  - LOS PUNTOS ESTAN EN METROS (m).
3. LA ORTOFOTO UTILIZADA EN LA VISTA DE PLANTA CORRESPONDE AL 29 DE FEBRERO DE 2024 (MAYOR CLARIDAD EN LA IMGEN).
4. DIBUJO GENERADO PARA PROYECTAR LA LOCALIZACIÓN DE LAS PRUEBAS DE CORTE CON VELETA, DESARROLLADAS PARA LAS LIBERACIONES DE FUNDACIONES DURANTE EL MES DE JULIO DE 2024.

										<b>Minera Panamá</b>		<b>FIRST QUANTUM</b>		DRAWING TITLE					
										CLIENT: MPESA		<small>THIS DRAWING IS THE PROPERTY OF MINERA PANAMA S.A (MPESA) AND THE USE AND COPYING THEREOF IS SUBJECT TO THE TERMS OF THE AGREEMENT UNDER WHICH IT WAS PREPARED. THIS DRAWING MAY NOT BE COPIED EXCEPT AS EXPRESSLY PROVIDED THEREIN.</small>		SCALE		JOB No. DRG No.		REV.	
										PROJECT: MINA DE COBRE PANAMA				DATE					
REFERENCE DRG No.	REFERENCE DRAWING DESCRIPTION	REV	DATE	DESCRIPTION	DRN	CHK'D	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D								
1	2	3	4	5	6	7	8	9	10	11	12	FORMAT TABLON							

Este documento está sujeto a modificaciones, cambios y/o revisiones por parte de las Entidades del Estado, acorde al Artículo 2 de la Resolución de Gabinete 19 de 27 de febrero de 2024.

FOUNDATION PREPARATION

Project Name: Cobre Panama  
 Area No: 363  
 Area Description: Tailings Dam  
 DWG No: 1824-363-CI-DRG-9144-0  
 ITP No: \_\_\_\_\_

Weather: \_\_\_\_\_  
 QA/QC Engineer/ Inspected by: Jorge Rodriguez  
 Photos taken and archived (Y/N): Y  
 Attachments: Test Data/Survey  
 Date: 7-7-2024

Dam: North Sector: 1 WRP#: \_\_\_\_\_ Cofferdam

Specification No.: 1824-363-CI-SPC-0002

No.	Item to be Inspected	Inspected by		
		Construction	QC	Inspection Point
Prior	Advance investigation conducted Y / N. Type <u>—</u> , Depth <u>—</u> .	<u>N.A</u>	<u>N.A</u>	
Prior	Foundation Preparation for placement of Zone <u>7</u> . See Notes	<u>X</u>	<u>X</u>	
<b>1</b>	<b>Setting out</b>			
	Work site cleared. Erosion and Sediment control in place.	<u>X</u>	<u>X</u>	<u>W</u>
	Clearing and stripping completed (i.e., grass, shrubs, roots).	<u>X</u>	<u>X</u>	<u>W</u>
<b>2</b>	<b>Excavation, <input checked="" type="checkbox"/> Earth <input type="checkbox"/> Rock; If rock, was any treatment conducted? <input type="checkbox"/> Grout mortar <input type="checkbox"/> Slush grout <input type="checkbox"/> Dental Concrete</b>			
	Excavation performed to specified lines, grades and slopes (IFC).	<u>X</u>	<u>X</u>	<u>H</u>
	Slopes excavated and stable. Loose stones and boulders removed ? Y / <u>N</u>	<u>N.A</u>	<u>N.A</u>	<u>W</u>
	Alluvial/ Colluvial material removed? <u>Y</u> / N	<u>X</u>	<u>X</u>	<u>W</u>
	Seepage from ground? <u>Y</u> / N	<u>X</u>	<u>X</u>	<u>W</u>
	Dewatering measures in place (pumps, diversion ditches, ect) ? Y / <u>N</u>	<u>N.A</u>	<u>N.A</u>	<u>W</u>
	Prepared foundation surveyed: N _____; E _____; Elevation _____	<u>See attachment</u>		<u>H</u>
<b>4</b>	<b>Drainage ditches surfaces/slope smooth and compacted. Erosion protection, add remarks.</b>	<u>X</u>	<u>X</u>	<u>H</u>
<b>6</b>	<b>Foundation Shear Vane Average Value: <u>160 Kpa</u> Material type tested: <u>Remarks</u></b>	<u>X</u>	<u>X</u>	<u>H</u>
<b>7</b>	<b>Approved foundation as-built by Survey? Y/ N</b>	<u>X</u>	<u>X</u>	<u>H</u>
<b>8</b>	<b>Foundation geology mapped with lithology and USCS description? Y/ N (add in Remarks)</b>	<u>X</u>	<u>X</u>	<u>H</u>
<b>9</b>	<b>If sample taken for laboratory testing, include the MPSA code:</b>			

Remarks:

Foundation stands on natural ground consisting on tosca

Attached: Plan scheme (incl. area and elevation)  Photos (incl. references)  Vane Shear tes results  Lab testing results

Ready for Inspection: \_\_\_\_\_ Date: \_\_\_\_\_  
 Checked and Inspected: Jorge Rodriguez Construction Date: 7-7-2024  
 Quality Control

Surveyor: \_\_\_\_\_ QA/QC Supervising Engineer: Jorge Rodriguez  
 Name: \_\_\_\_\_ Signature: \_\_\_\_\_

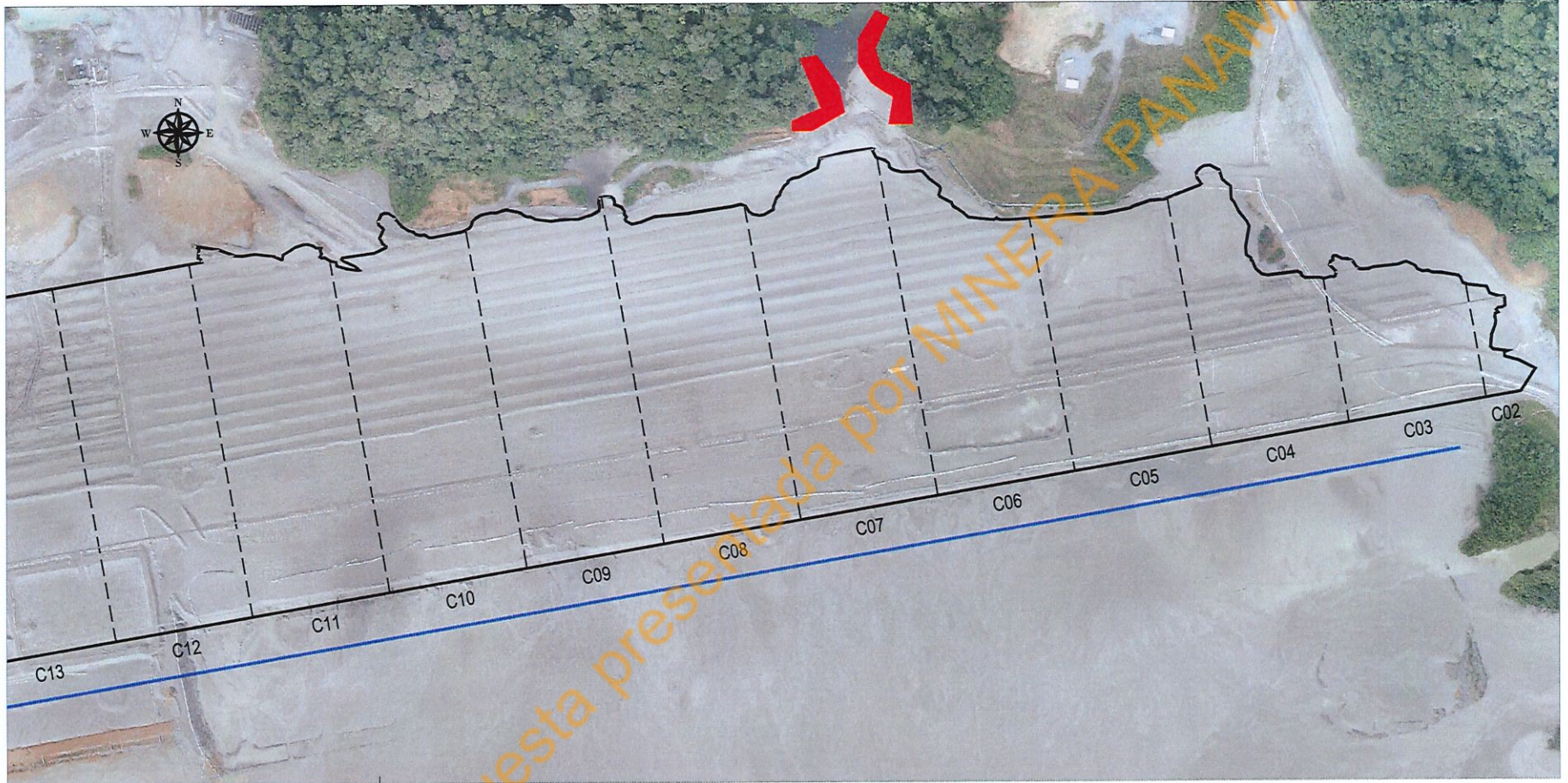
Legend: X Correct O Incorrect  Corrected NA Not Apply













# TMF NORTH DAM SECTOR 1

Este documento está sujeto a modificaciones, cambios y/o revisiones por parte de las Entidades del Estado, acorde al Artículo 2 de la Resolución de Gabinete 19 de 27 de febrero de 2024.



MATERIAL PLACED / RELEASED		INFORMATION	
	ZONE 1		ZONE 7
	ZONE 3		MECHANICAL SAND
	ZONE 9		HYDRAULIC SAND
	ZONE 7A		FOUNDATION
		LOCATION: ND1 Cofferdam	
		AREA: 353.58 m <sup>2</sup>	
		VOLUME: m <sup>3</sup>	
		ELEVATION: 56.53 @ 57.02 m	

PROJECT	MINA DE COBRE PANAMA	Minera Panamá
AREA	TAILINGS MANAGEMENT FACILITY	

DRAFT - ONLY FOR INFORMATION

DATE 07-07-2024

DRAWN

Este documento está sujeto a modificaciones, cambios y/o revisiones por parte de las Entidades del Estado, acorde al Artículo 2 de la Resolución de Gabinete 19 de 27 de febrero de 2024.

**FOUNDATION PREPARATION**

Project Name: Cobre Panama  
 Area No: 363  
 Area Description: Tailings Dam  
 DWG No: 1824-363-CI-DRG-9144-0  
 ITP No: \_\_\_\_\_

Weather: \_\_\_\_\_  
 QA/QC Engineer/ Inspected by: Maricarmen Villamonte  
 Photos taken and archived (Y/N): Y  
 Attachments: Test Data/Survey  
 Date: 13/7/2024

Dam: North Sector: 1 WRP#: \_\_\_\_\_ COFFERDAM

Specification No.: 1824-363-CI-SPC-0002

No.	Item to be Inspected	Inspected by		
		Construction	QC	Inspection Point
Prior	Advance investigation conducted Y / N. Type _____, Depth _____.	<u>N.A.</u>	<u>NA</u>	
Prior	Foundation Preparation for placement of Zone <u>7</u> . See Notes	<u>X</u>	<u>X</u>	
<b>1</b>	<b>Setting out</b>			
	Work site cleared. Erosion and Sediment control in place.	<u>X</u>	<u>X</u>	<u>W</u>
	Clearing and stripping completed (i.e., grass, shrubs, roots).	<u>X</u>	<u>X</u>	<u>W</u>
<b>2</b>	<b>Excavation, <input checked="" type="checkbox"/> Earth <input type="checkbox"/> Rock; If rock, was any treatment conducted? <input type="checkbox"/> Grout mortar <input type="checkbox"/> Slush grout <input type="checkbox"/> Dental Concrete</b>			
	Excavation performed to specified lines, grades and slopes (IFC).	<u>X</u>	<u>X</u>	<u>H</u>
	Slopes excavated and stable. Loose stones and boulders removed? Y / N	<u>X</u>	<u>X</u>	<u>W</u>
	Alluvial/ Colluvial material removed? Y / N	<u>X</u>	<u>X</u>	<u>W</u>
	Seepage from ground? Y / N	<u>N.A.</u>	<u>NA</u>	<u>W</u>
	Dewatering measures in place (pumps, diversion ditches, ect)? Y / N	<u>N.A.</u>	<u>NA</u>	<u>W</u>
	Prepared foundation surveyed: N _____, E _____; Elevation _____	<u>See attachment</u>		<u>H</u>
<b>4</b>	<b>Drainage ditches surfaces/slope smooth and compacted. Erosion protection, add remarks.</b>	<u>X</u>	<u>X</u>	<u>H</u>
<b>6</b>	<b>Foundation Shear Vane Average Value: <u>160kpa</u>; Material type tested: <u>Remarks</u></b>	<u>X</u>	<u>X</u>	<u>H</u>
<b>7</b>	<b>Approved foundation as-built by Survey? <u>Y</u>/ N</b>	<u>X</u>	<u>X</u>	<u>H</u>
<b>8</b>	<b>Foundation geology mapped with lithology and USCS description? Y/ N (add in Remarks)</b>	<u>X</u>	<u>X</u>	<u>H</u>
<b>9</b>	<b>If sample taken for laboratory testing, include the MPSA code:</b>			

Remarks:

Foundation consisting of saprolite with coarse rock.

Attached: Plan scheme (incl. area and elevation)  Photos (incl. references)  Vane Shear tes results  Lab testing results

Ready for Inspection: \_\_\_\_\_ Date: \_\_\_\_\_  
 Checked and Inspected: Construction Maricarmen Villamonte Maricarmen Villamonte Date: 13/7/2024  
 Quality Control \_\_\_\_\_

Surveyor: \_\_\_\_\_ Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
 QA/QC Supervising Engineer: Stephane Vega

Legend: X Correct O Incorrect  Corrected **NA** Not Apply

Este documento está sujeto a modificaciones, cambios y/o revisiones por parte de las Entidades del Estado, acorde al Artículo 2 de la Resolución de Gabinete 19 de 27 de febrero de 2024.

# Standard Test Method for Field Vane Shear Test in Cohesive Soil

## ASTM D2573-08

FIRST QUANTUM MINERALS LTD.  
Cobre Panamá

Field Engineer : *Mariacarmen U. Llamante*

Proyecto: Mina de Cobre Panama

Fecha: *13/7/2024*

Contractor: MPSA

Location: *INT NO COFFERDAM*

Description: *FOUNDATION SLOPE*

Material I.D: *Saprolite de lasca.*

Dry Density (kg/m<sup>3</sup>):

Veleta/Vane

Diameter

16 mm     X    

33 mm           

N.M.C (%):

MAX DIAL READING:     130    

Divisions:     260    

Equip. Ser. No.:     Geonor  
w/ calibration cert.    

### READINGS AND CALCULATIONS :

Test No.	Depth (cm)	READING DIV	Friction	SHEAR (KPa)	Moisture Content (%)	Dry Density (kg/m <sup>3</sup> )	Location Easting/Northing/Elevations
<i>①</i>	<i>0.30</i>	<i>Imp</i>	<i>Imp</i>	<i>160</i>	<i>-</i>	<i>-</i>	<i>537747.51 / 983487 / 55.71</i>
<i>⑤</i>	<i>0.30</i>	<i>Imp</i>	<i>Imp</i>	<i>160</i>	<i>-</i>	<i>-</i>	<i>537686 - 983524 / 55.50</i>
<i>②</i>	<i>0.30</i>	<i>Imp</i>	<i>Imp</i>	<i>160.</i>	<i>-</i>	<i>-</i>	<i>537697 - 983538 - 55.71</i>
<i>④</i>	<i>0.30</i>	<i>Imp</i>	<i>Imp.</i>	<i>160</i>	<i>-</i>	<i>-</i>	<i>537669 - 983528 - 55.80</i>
Remarks:							

Specifications: > *40* kPa

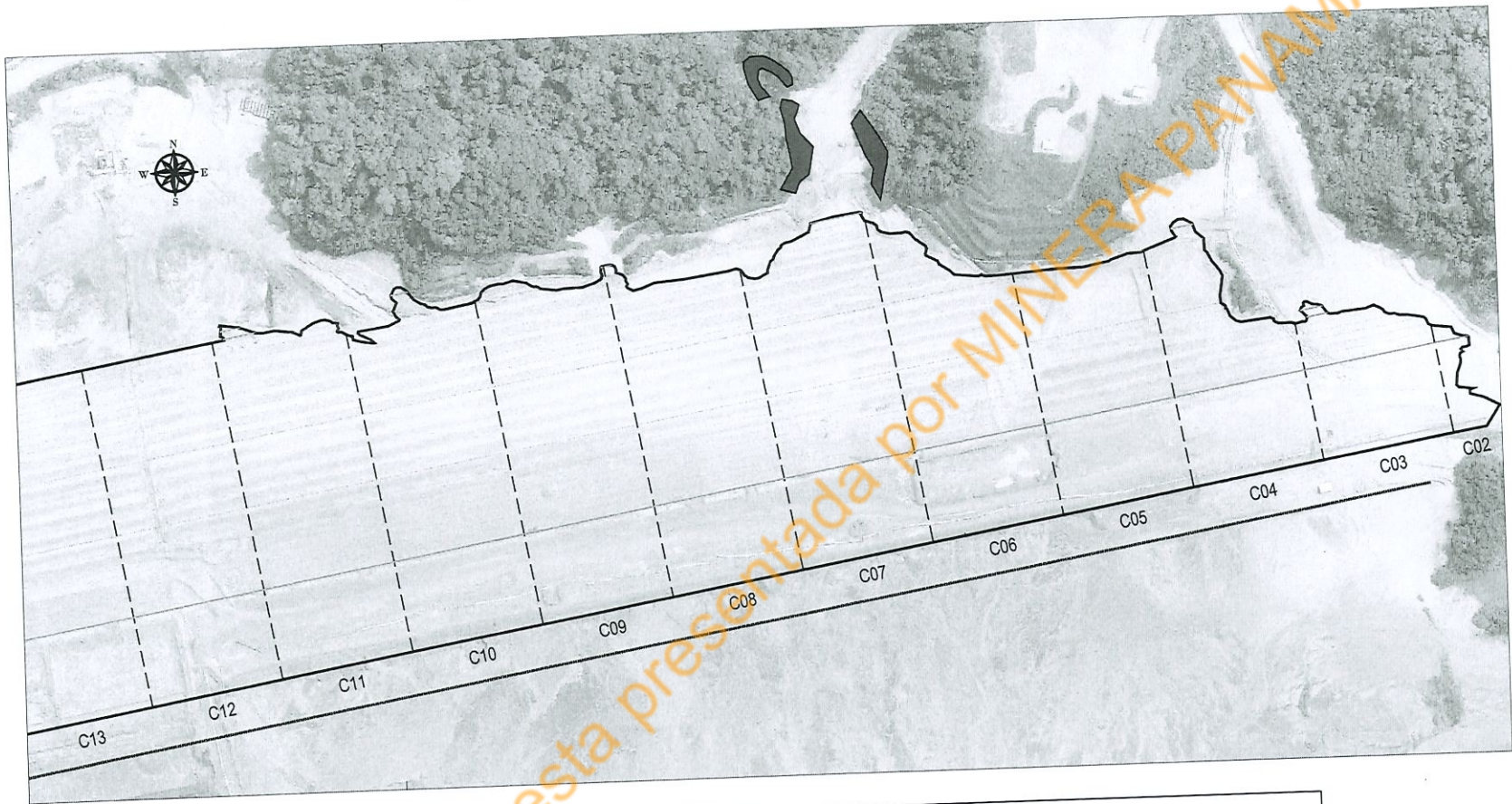
*Area: 405.99 m<sup>2</sup>*









Average = *30cm: 160 kPa*

Copia de la propuesta presentada por MINERÍA PANAMÁ, S.A.

Este documento esta sujeto a modificaciones, cambios y/o revisiones por parte de las Entidades del Estado, acorde al Artículo 2 de la Resolución de Gabinete 19 de 27 de febrero de 2024.

# TMF NORTH DAM SECTOR 1



MATERIAL PLACED / RELEASED		INFORMATION
	ZONE 1	LOCATION: TMF ND1 COFFERDAM AREA: 465.99M2 VOLUME: ELEVATION: 55.56m to 57.21m
	ZONE 3	
	ZONE 9	
	ZONE 7A	
	ZONE 7	
	MECHANICAL SAND	
	HYDRAULIC SAND	
	FOUNDATION	

PROJECT MINA DE COBRE PANAMA	Minera Panama	DATE 13/7/2024
AREA TAILINGS MANAGEMENT FACILITY		DRAWN
DRAFT - ONLY FOR INFORMATION		