



ALS Scandinavia AB  
 Hammarvagen 22  
 SE-943 36, Ojebyn  
 www.alsglobal.com/geochemistry

To: GEOSIGMA AB  
 BOX 894  
 UPPSALA 751 08

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 Total # Pages: 2 (A)  
 Plus Appendix Pages  
 Finalized Date: 14-OCT-2021  
 Account: GISGAM

An INAB accredited testing laboratory Reg. No. 173T. Accredited methods are listed in the Scope of Accreditation available on request.

**CERTIFICATE PI21258690**

Project: Orminge sulfidutredning  
 P.O. No.: 606636  
 This report is for 2 samples of Crushed Rock submitted to our lab in Pitea, Sweden on 27-SEP-2021.  
 The following have access to data associated with this certificate:  
 FLAVIO LANARO

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-22Y	Split Sample - Boyd Rotary Splitter
PUL-31	Pulverize up to 250g 85% <75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
S-IR08	Total Sulphur (IR Spectroscopy)	LECO
S-ICP19	Sulphate Sulphur / By ICP-AES	ICP-AES
S-CAL19	Sulphide Sulphur (Calculated)	LECO
C-IR07	Total Carbon (IR Spectroscopy)	LECO
C-IR06	Non-Carbonate C by HCl Leach, IR Spec	LECO
C-CAL04	Inorganic Carbon	LECO
OA-VOL08EU	AP & NP of Sulphidic Waste	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

Comments: Samples were received on 27-Sep-2021 and the SSF/Request on 27-Sep-2021.

Signature:

Andrey Tairov, Technical Manager, Ireland



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**CERTIFICATE OF ANALYSIS PI21258690**

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	S-IR08 S %	S-ICP19 S %	S-CAL19 S %	C-IR07 C %	C-IR06 C organi %	C-CAL04 C inorga %	OA-VOL08EU NP tCaCO3/1Kt	OA-VOL08EU AP tCaCO3/1Kt	OA-VOL08EU NPR Unity	OA-VOL08EU NNP tCaCO3/1Kt	CRU-QC Pass2mm %	PUL-QC Pass75um %
B2_2m		0.84	0.69	0.04	0.65	0.15	0.10	0.05	7	20.3	0.34	-13	82.1	92.0
B5_2m		0.93	0.47	0.03	0.44	0.48	0.34	0.14	4	13.8	0.29	-10		94.0

Comments: Samples were received on 27-Sep-2021 and the SSF/Request on 27-Sep-2021.

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<b>CERTIFICATE OF ANALYSIS PI21258690</b>
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### CERTIFICATE COMMENTS

#### ANALYTICAL COMMENTS

Applies to Method: OA-VOL08EU Units:  $tCaCO_3/1Kt = tCaCO_3/1000t$  ore  
 OA-VOL08EU

#### ACCREDITATION COMMENTS

Applies to Method: The methods immediately below this line are ISO 17025:2017 Accredited. INAB Registration No: 173T  
 C-IR07 S-IR08



#### LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Pitea located at Hammarvagen 22, SE-943 36, Ojebyn, Sweden.			PUL-31
	CRU-31	CRU-QC	LOG-22	
	PUL-QC	SPL-22Y	WEI-21	
Applies to Method:	Processed at ALS Loughrea located at Dublin Road, Loughrea, Co. Galway, Ireland.			OA-VOL08EU
	C-CAL04	C-IR06	C-IR07	
	S-CAL19	S-ICP19	S-IR08	