

## DAFTAR PUSTAKA

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# LAMPIRAN


# 1. Deskripsi Lapangan


Komponen Pengamatan	Keterangan
Kode Sampel	SP/01/AY (YG-01)
Warna Batuan	Abu-abu Kehitaman
Intensitas Alterasi	<i>Moderate</i>
Mineralogi	Mineral Primer: -Ortoklas -Plagioklas -Kuarsa
	Mineral Sekunder: -Mineral Oksida (Hematit) -Mineral Sulfida (Kalkopirit, Pirit) -Mineral Silikat
Tekstur Khusus	Diseminasi, <i>Veinlets</i>
Nama Batuan Asal	Dasit
Kelimpahan Mineral Alterasi/Penciri	-
Tipe Alterasi	-
Foto Sampel	




Komponen Pengamatan	Keterangan
Kode Sampel	SP/02/AY(YG-02)
Warna Batuan	Coklat Kehitaman
Intensitas Alterasi	<i>Intense</i>
Mineralogi	Mineral Primer: -
	Mineral Sekunder: -Mineral Oksida (Hematit) -Mineral Hidroksida (Magnetit)
Tekstur Khusus	Segregasi
Nama Batuan Asal	-
Kelimpahan Mineral Alterasi/Penciri	-Mineral Oksida (70%)
Tipe Alterasi	-
Foto Sampel	


Komponen Pengamatan	Keterangan
Kode Sampel	SP/03/AY(YG-03)
Warna Batuan	Coklat Kehitaman
Intensitas Alterasi	<i>Intense</i>
Mineralogi	Mineral Primer: -
	Mineral Sekunder: -Mineral Oksida (Hematit) -Mineral Hidroksida (Magnetit)
Tekstur Khusus	Segregasi
Nama Batuan Asal	-
Kelimpahan Mineral Alterasi/Penciri	-Mineral Oksida (70%)
Tipe Alterasi	-
Foto Sampel	

Komponen Pengamatan	Keterangan
Kode Sampel	SP/04/AY(YG-04)
Warna Batuan	Abu-abu Kehitaman
Intensitas Alterasi	<i>Strong</i>
Mineralogi	Mineral Primer: -Plagioklas -Ortoklas
	Mineral Sekunder: -Mineral Oksida (Hematit) -Mineral Sulfida (Kalkopirit, Pirit) -Mineral Silika
Tekstur Khusus	<i>Veinlets</i> , Diseminasi
Nama Batuan Asal	-
Kelimpahan Mineral Alterasi/Penciri	Mineral Silika (65%)
Tipe Alterasi	Silisifikasi
Foto Sampel	

Komponen Pengamatan	Keterangan
Kode Sampel	SP/05/AY(YG-05)
Warna Batuan	Abu-abu Kecoklatan
Intensitas Alterasi	<i>Strong</i>
Mineralogi	Mineral Primer: -Plagioklas
	Mineral Sekunder: -Mineral Sulfida (Kalkopirit,Pirit) -Mineral Silika
Tekstur Khusus	<i>Veinlets</i> , Diseminasi
Nama Batuan Asal	-
Kelimpahan Mineral Alterasi/Penciri	Mineral Silika (70%)
Tipe Alterasi	Silisifikasi
Foto Sampel	

Komponen Pengamatan	Keterangan
Kode Sampel	SP/06/AY(YG-06)
Warna Batuan	Abu-abu Kecoklatan
Intensitas Alterasi	<i>Strong</i>
Mineralogi	Mineral Primer: -Plagioklas -Ortoklas
	Mineral Sekunder: -Mineral Sulfida (Kalkopirit,Pirit) -Mineral Silika
Tekstur Khusus	<i>Veinlets</i> , Diseminasi
Nama Batuan Asal	-
Kelimpahan Mineral Alterasi/Penciri	Mineral Silika (68%)
Tipe Alterasi	Silisifikasi
Foto Sampel	

Komponen Pengamatan	Keterangan
Kode Sampel	SP/07/AY(YG-07)
Warna Batuan	Abu-abu Kehitaman
Intensitas Alterasi	<i>Moderate</i>
Mineralogi	Mineral Primer: -Plagioklas -Ortoklas -Kuarsa
	Mineral Sekunder: -Mineral Sulfida (Kalkopirit) -Mineral Silika (Kuarsa)
Tekstur Khusus	<i>Veinlets</i> , Diseminasi
Nama Batuan Asal	Diorit
Kelimpahan Mineral Alterasi/Penciri	Mineral Silika (30%)
Tipe Alterasi	Silisifikasi
Foto Sampel	

Komponen Pengamatan	Keterangan
Kode Sampel	SP/08/AY(YG-08)
Warna Batuan	Hitam Kemerahan
Intensitas Alterasi	<i>Strong</i>
Mineralogi	Mineral Primer: -
	Mineral Sekunder: -Mineral Sulfida (Kalkopirit, Pirit, Malasit, Kovelit) -Mineral Silika (Kuarsa) -Mineral Oksida
Tekstur Khusus	Diseminasi, Segregasi
Nama Batuan Asal	-
Kelimpahan Mineral Alterasi/Penciri	Mineral Silika (40%)
Tipe Alterasi	Silisifikasi
Foto Sampel	

## 2. Deskripsi Petrografi

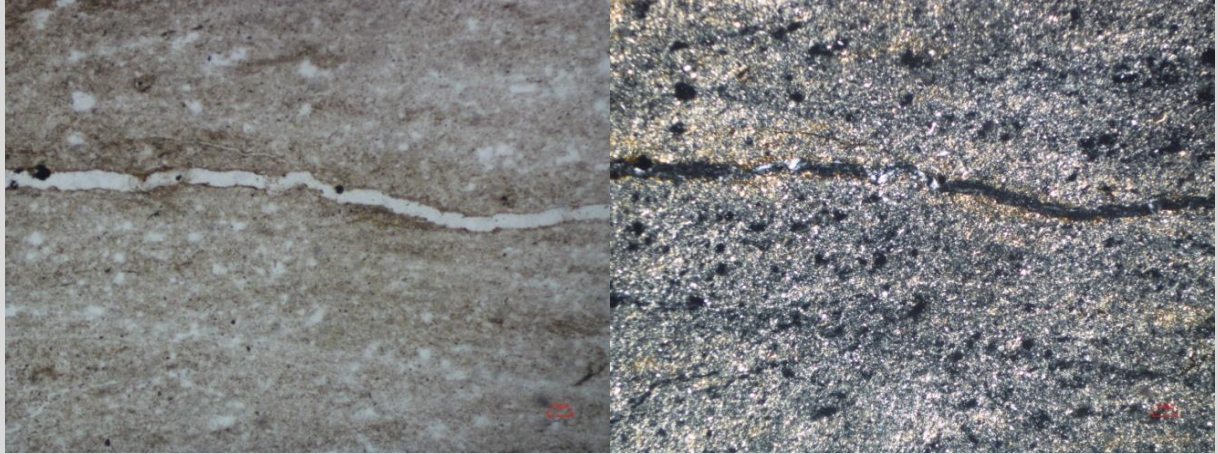




No sayatan / No conto : YG-02

Lokasi : Lassie

**Foto**



//- Nikol  
Lensa Okuler : 10x

Lensa Obyektif : 5x

X- Nikol  
Perbesaran Total : 50x

**Tipe Batuan** : Batuan Sedimen

**Tipe Struktur** : Berlapis

**Mikroskopis** : Warna absorpsi transparan, kuning - kecoklatan, warna interferensi abu-abu, kuning, merah muda - kehijauan, tekstur klastik. Komposisi material terdiri dari *skeletal grain*, *mud* dan kuarsa. Ukuran material 0,02 – 0,5 mm.

**Deskripsi Material**

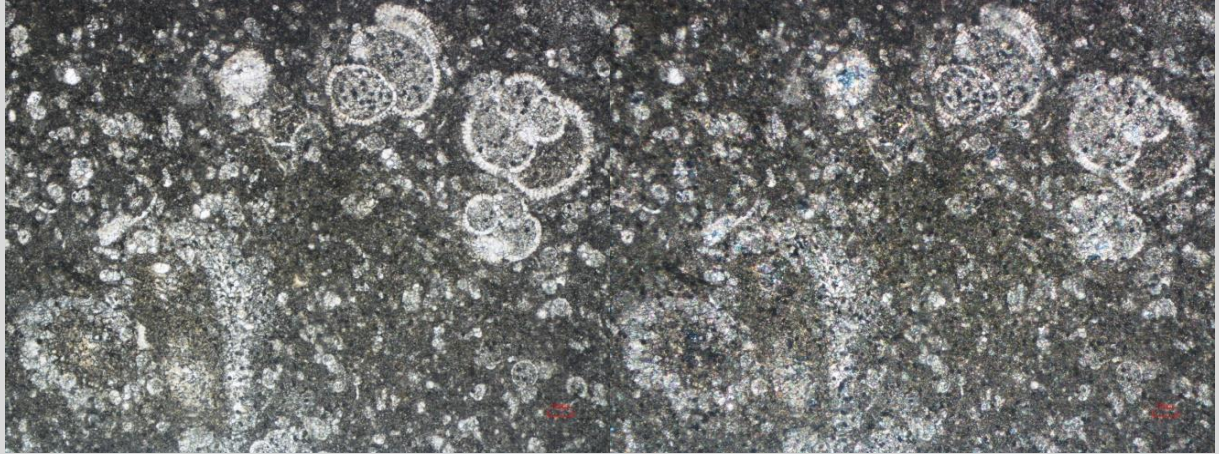
Komposisi Material	Jumlah (%)	Keterangan Optik Material
<b>Skeletal Grain</b>	10	Warna absorpsi transparan, ukuran 0,06 – 0,5 mm, warna interferensi abu-abu, relief tinggi, jenis <i>skeletal grain</i> berupa foraminifera.
<b>Mineral lempung</b>	55	Warna absorpsi coklat, warna interferensi coklat, relief sedang, bentuk anedral, ukuran 0,02 mm.
<b>Mineral kalsit</b>	30	Warna absorpsi transparan - coklat, warna interferensi kehijauan - kebiruan, relief tinggi, bentuk anedral, ukuran 0,05 - 0,02 mm.
<b>Mineral opak</b>	5	Warna absorpsi hitam, warna interferensi hitam, ukuran mineral 0,05 - 0,02

**Nama Batuan** : *Mudstone* (Dunham,1962)

No sayatan / No conto : YG-03

Lokasi : Timur Bulu Maraung

**Foto**



//- Nikol  
Lensa Okuler : 10x

Lensa Obyektif : 5x

X- Nikol  
Perbesaran Total : 50x

**Tipe Batuan** : Batuan Sedimen

**Tipe Struktur** : Berlapis

**Mikroskopis** : Warna absorpsi kecoklatan, warna interferensi abu-abu, tekstur klastik. Komposisi material terdiri dari *skeletal grain* dan mineral lempung dan mineral kalsit, Ukuran material 0,02 – 0,5 mm.

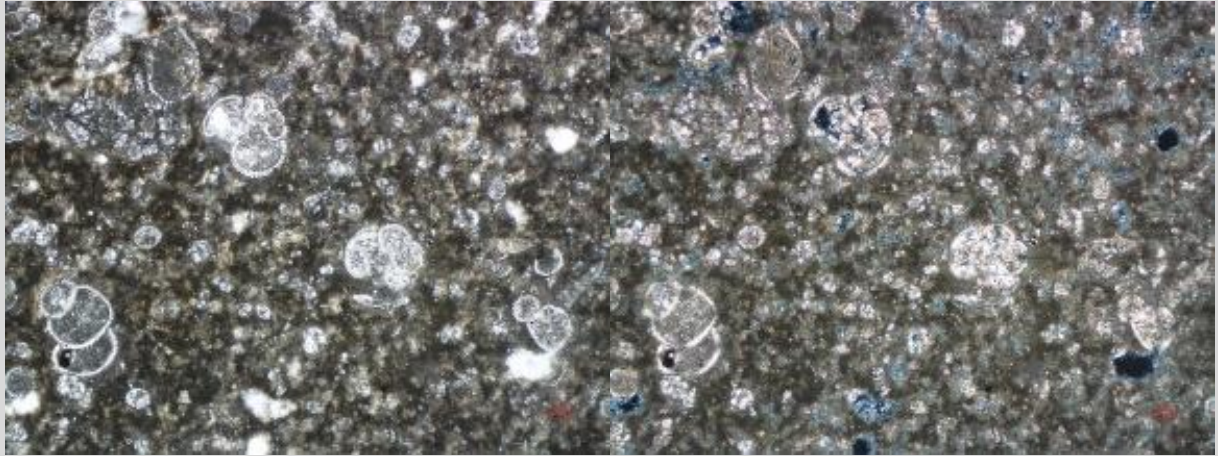
**Deskripsi Material**

Komposisi Material	Jumlah (%)	Keterangan Optik Material
<b>Skeletal Grain</b>	55	Warna absorpsi transparan, ukuran 0,1 – 1 mm, warna interferensi abu-abu, relief tinggi, jenis <i>skeletal grain</i> berupa foraminifera.
<b>Mineral lempung</b>	35	Warna absorpsi coklat, warna interferensi coklat, relief sedang, bentuk anedral, ukuran 0,02 mm.
<b>Mineral kalsit</b>	10	Warna absorpsi transparan - coklat, warna interferensi kehijauan - kebiruan, relief tinggi, bentuk anedral, ukuran 0,05 - 0,02 mm.
<b>Nama Batuan</b>	<b>: Packstone (Dunham,1962)</b>	



No sayatan / No conto : YG-05 Nama batuan :  
 Lokasi :

**Foto**



//- Nikol X- Nikol  
 Lensa Okuler : 10x Lensa Obyektif : 5x Perbesaran Total : 50x

**Tipe Batuan** : Batuan Sedimen

**Tipe Struktur** : Berlapis

**Mikroskopis** : Warna absorpsi kecoklatan, warna interferensi abu-abu, kehijauan - biru, tekstur klastik. Komposisi material terdiri dari *skeletal grain*, mineral lempung dan mineral kalsit. Ukuran material 0,02 – 0,35 mm.

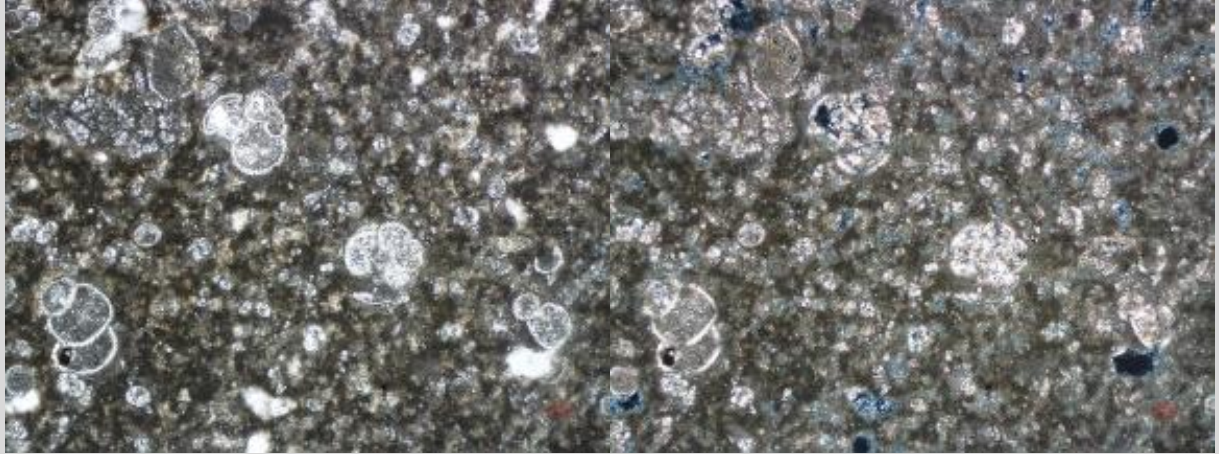
**Deskripsi Material**

Komposisi Material	Jumlah (%)	Keterangan Optik Material
<b>Skeletal Grain</b>	45	Warna absorpsi transparan, ukuran 0,02 – 0,35 mm, warna interferensi abu-abu, relief tinggi, jenis <i>skeletal grain</i> berupa foraminifera.
<b>Mineral lempung</b>	25	Warna absorpsi coklat, warna interferensi coklat, relief sedang, bentuk anhedral, ukuran 0,02 mm.
<b>Mineral kalsit</b>	30	Warna absorpsi transparan - coklat, warna interferensi kehijauan - kebiruan, relief tinggi, bentuk anhedral, ukuran 0,05 - 0,02 mm.
<b>Nama Batuan</b>	: <b>Packstone (Dunham,1962)</b>	

No sayatan / No conto : YG-06

Lokasi : Sungai Baru (Camming)

**Foto**



//- Nikol  
Lensa Okuler : 10x

Lensa Obyektif : 5x

X- Nikol  
Perbesaran Total : 50x

**Tipe Batuan** : Batuan Sedimen

**Tipe Stuktur** : Berlapis

**Mikroskopis** : Warna absorpsi kecoklatan, warna interferensi abu-abu, kehijauan - biru, tekstur klastik. Komposisi material terdiri dari *skeletal grain*, mineral lempung dan mineral kalsit. Ukuran material 0,02 – 0,25 mm.

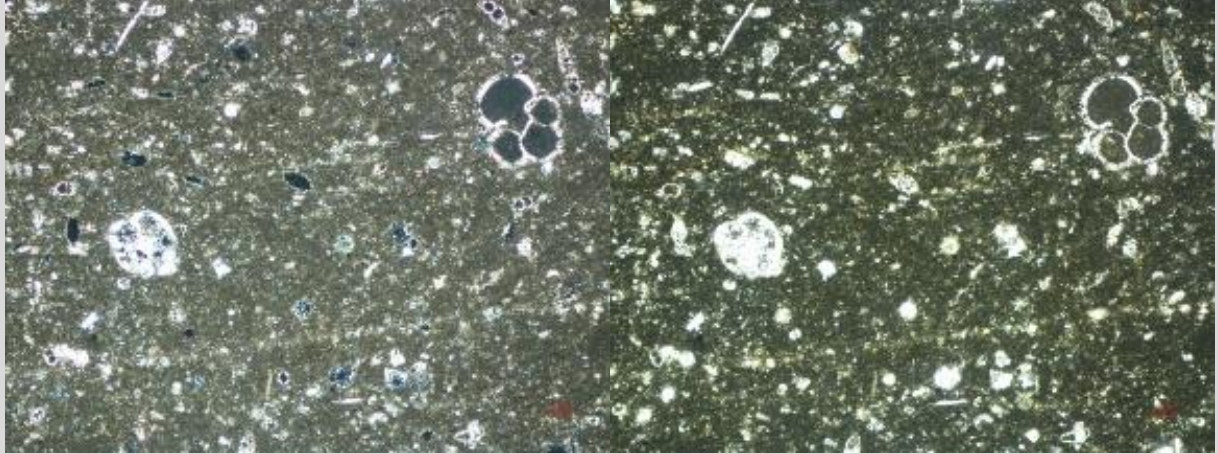
**Deskripsi Material**

Komposisi Material	Jumlah (%)	Keterangan Optik Material
<b>Skeletal Grain</b>	<b>40</b>	Warna absorpsi transparan, ukuran 0,06 – 0,25 mm, warna interferensi abu-abu, relief tinggi, jenis <i>skeletal grain</i> berupa foraminifera.
<b>Mineral lempung</b>	<b>30</b>	Warna absorpsi cokelat, warna interferensi cokelat, relief sedang, bentuk anedral, ukuran 0,02 mm.
<b>Mineral kalsit</b>	<b>30</b>	Warna absorpsi transparan - cokelat, warna interferensi kehijauan - kebiruan, relief tinggi, bentuk anedral, ukuran 0,05 - 0,02 mm.
<b>Nama Batuan</b>	<b>: Packstone (Dunham,1962)</b>	

No sayatan / No conto : YG-07

Lokasi : Sungai Barru (Camming)

**Foto**



//- Nikol  
Lensa Okuler : 10x

Lensa Obyektif : 5x

X- Nikol  
Perbesaran Total : 50x

**Tipe Batuan** : Batuan Sedimen

**Tipe Struktur** : Berlapis

**Mikroskopis** : Warna absorpsi kecoklatan, warna interferensi abu-abu kehijauan, tekstur klastik. Komposisi material terdiri dari *skeletal grain*, mineral lempung dan mineral kalsit. Ukuran material 0,02 – 0,25 mm.

**Deskripsi Material**

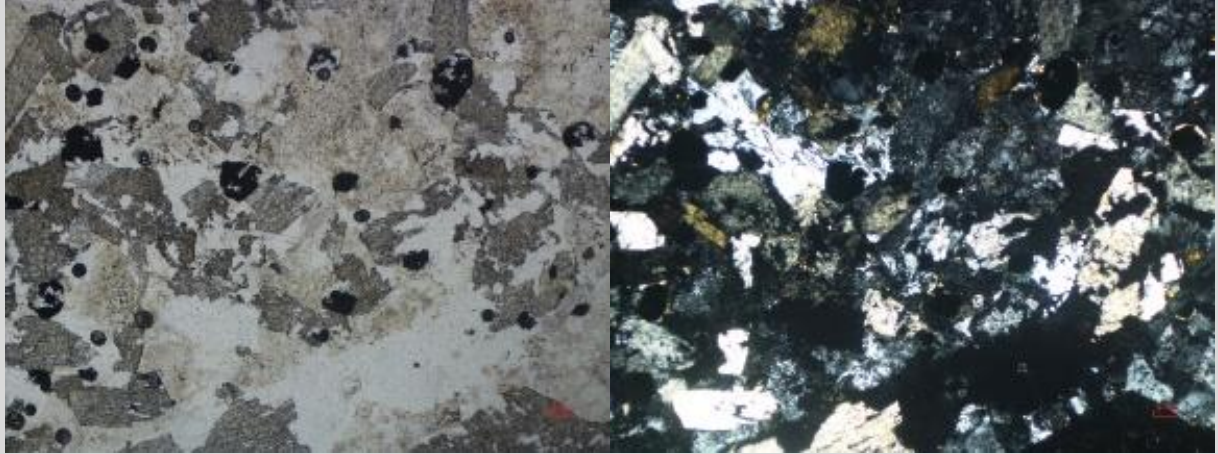
Komposisi Material	Jumlah (%)	Keterangan Optik Material
<b>Skeletal Grain</b>	20	Warna absorpsi transparan, ukuran 0,06 – 0,25 mm, warna interferensi abu-abu, relief tinggi, jenis <i>skeletal grain</i> berupa foraminifera.
<b>Mineral lempung</b>	65	Warna absorpsi coklat, warna interferensi coklat, relief sedang, bentuk anedral, ukuran 0,02 mm.
<b>Mineral kalsit</b>	15	Warna absorpsi transparan - coklat, warna interferensi kehijauan - kebiruan, relief tinggi, bentuk anedral, ukuran 0,05 - 0,02 mm.
<b>Nama Batuan</b>	: <b>Wackestone (Dunham,1962)</b>	



No sayatan / No conto : YG-04

Lokasi : Kaerenge

**Foto**



//- Nikol  
Lensa Okuler : 10x

Lensa Obyektif : 5x

X- Nikol  
Perbesaran Total : 50x

**Tipe Batuan** : Batuan Beku Intermediet

**Tipe Struktur** : Masif

**Mikroskopis** : Warna absorpsi putih, kekuningan, abu-abu dan hitam dengan warna interferensi putih, abu-abu, kuning kecoklatan, hitam. Batuan ini memiliki tekstur kristalinitas fanero porfiritik inekuigranular. Ukuran mineral 0,5 - 0,05 mm. Komposisi mineral terdiri dari kuarsa, ortoklas, hornblende, plagioklas, klorit, dan mineral opak.

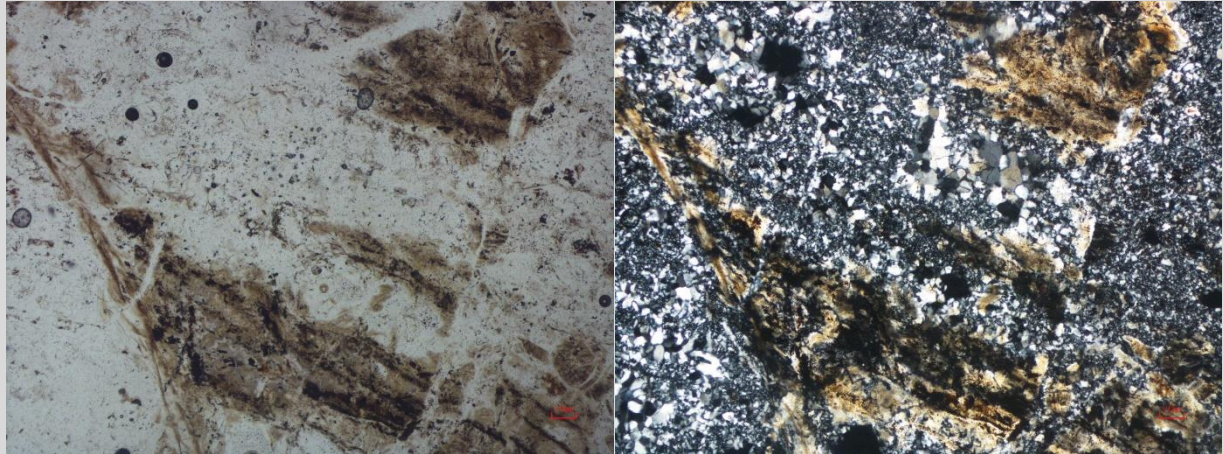
**Deskripsi Material**

Komposisi Material	Jumlah (%)	Keterangan Optik Material
<b>Kuarsa</b>	5	Warna absorpsi tidak berwarna, ukuran 0,2mm, belahan tidak ada, relief rendah, pecahan <i>even</i> , bentuk subhedral, warna interferensi putih, tidak ada kembaran, sudut pemadaman 5 <sup>0</sup> , jenis pemadaman paralel,
<b>Ortoklas</b>	5	Warna absorpsi tidak berwarna, ukuran 0,375 mm, bentuk euhedral – subhedral, relief rendah, pecahan <i>even</i> , tidak ada belahan, warna interferensi putih, sudut gelap 35 <sup>0</sup>
<b>Hornblende</b>	25	Warna absorpsi hijau muda, ukuran 0,2mm, belahan 1 arah, relief sedang, pecahan <i>uneven</i> , bentuk subhedral, warna interferensi jingga kecokelatan, tidak ada kembaran, sudut pemadaman 48 <sup>0</sup> .
<b>Plagioklas</b>	45	Warna absorpsi tidak berwarna, bentuk euhedral-subhedral, ukuran 0,2, relief sedang, ukuran, belahan 1 arah, pecahan <i>uneven</i> , kembaran albit, warna interferensi abu-abu, belahan 1 arah, sudut gelap 10 <sup>0</sup>
<b>Opaq</b>	8	Warna hitam, ukuran 0.02-0,25 mm
<b>Klorit</b>	2	Warna absorpsi transparan, warna interferensi kuning – jingga, relief lemah, ukuran mineral 0,05 mm

**Nama Batuan** : Quartz Diorite (IUGS, 1973)

No sayatan / No conto : YG-08  
 Lokasi : Sungai Baru

**Foto**



//- Nikol X - Nikol  
 Lensa Okuler : 10x Lensa Obyektif : 5x Perbesaran Total : 50x

**Tipe Batuan** : Batuan Beku

**Tipe Struktur** : Masif

**Mikroskopis** : Warna interferensi putih, abu-abu, kuning kecoklatan, hitam. Batuan ini memiliki tekstur kristalinitas fanero porfiritik inekuigranular. Komposisi mineral terdiri dari kuarsa, ortoklas, plagioklas, dan mineral altrasi. Ukuran mineral 0,5 - 0,05 mm

Deskripsi Material		
Komposisi Material	Jumlah (%)	Keterangan Optik Material
<b>Kuarsa</b>	<b>20</b>	Warna absorpsi tidak berwarna, ukuran 0,02-0,25 mm, belahan tidak ada, relief rendah, pecahan <i>even</i> , bentuk subhedral, warna interferensi putih, tidak ada kembaran, sudut pepadaman 6 <sup>0</sup> , jenis pepadaman paralel,
<b>Ortoklas</b>	<b>15</b>	Warna absorpsi tidak berwarna, ukuran 0,05-0,375 mm, bentuk euhedral – subhedral, relief rendah, pecahan <i>even</i> , tidak ada belahan, warna interferensi putih, sudut gelap 35 <sup>0</sup> .
<b>Plagioklas</b>	<b>45</b>	Warna absorpsi tidak berwarna, bentuk euhedral-subhedral, ukuran 0,2, relief sedang, ukuran, belahan 1 arah, pecahan <i>uneven</i> , kembaran albit, warna interferensi abu-abu, belahan 1 arah, sudut gelap 10 <sup>0</sup>
<b>Mineral Altrasi</b>	<b>20</b>	Warna absorpsi tidak berwarna, warna interferensi kuning - jingga, ukuran mineral 0,5 - 0,075 mm
<b>Nama Batuan</b> : <b>Dacite teraltrasi (modifikasi IUGS, 1973)</b>		



# 3. Analisis Geokimia ICP-MS

# MINERALS TEST REPORT

**CLIENT**

Andi Nurul Isma Yogie  
BTP Blok H No. 50B RT002 RW011  
Kel. Buntusu, Kec. Tamalanrea  
Kota Makassar  
Sulawesi Selatan  
Indonesia

**JOB INFORMATION**

Job Number : 200080  
Customer Ref : F3033  
Number of samples : 12  
Report Comprising : Cover Sheet, Scheme Description, Results  
Total Pages : 14  
Date received : 13/01/2020  
Date reported : 27/01/2020  
Notes : N.A = Not Analyzed  
I.S = Insufficient Sample  
L.N.R = Listed Not Received  
R.N.L = Received Not Listed

**REPORT NOTES**

**TESTED BY**

PT Intertek Utama Services  
Jl. Raya Bogor KM 28  
Jakarta Timur - Indonesia 13710  
Telephone : +6221 2938 4454  
Fax : +6221 2938 4465  
[www.intertek.com](http://www.intertek.com)

**Approved Signature for:**



**Shaun Compton**  
**Minerals Manager**

All work is performed in accordance with the Intertek Minerals Standard Terms and Conditions of work <http://www.intertek.com/terms/>. This report relates specifically to the sample (s) that were drawn and / or provided by the Customer or their nominated third party. The reported result (s) provide no warranty or verification on the sample (s) representing any specific goods and / or shipment and only relate to the sample (s) as received and tested. This report was prepared solely for the use of the Customer named in this report. Intertek accepts no responsibility for any loss, damage or liability suffered by a third party as a result of any reliance upon or use of this report.

**DO NOT PHOTOCOPY**

1 of 14

**SCHEME DESCRIPTION**

Ref : F3033

Job : 200080

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**Scheme code: 4A/OE**

ICP-OES Determination 4 acid digest in teflon tube

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**Scheme code: 4A/MS**

ICP-MS Determination 4 acid digest in teflon tube

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**Scheme code: 4AH2/AA**

Four Acid Digestion/AAS

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**Scheme code: FB1/XRF250**

1

XRF whole rock analysis. Samples fused using Lithium Metaborate and analysed by XRF. XRF analysis determines total element concentrations which are reported as oxides.

2 of 14

**FINAL REPORT**

Ref : F3033

Job : 200080

SAMPLE	Al	Ca	Cr	Cu	Fe	K	Mg	Mn	Na
ST 1 (AY)	45300	69800	473	124	26.4	7840	12000	11600	1090
ST 3 (AY)	56800	8040	120	64	23.5	9950	5660	29400	4010
ST 4A (AY)	41500	11200	6950	34	8.98	5630	7810	4060	7310
ST 4B (AY)	44300	43300	4370	48	12.3	11800	17500	5290	5520
ST 5 (AY)	60800	62900	570	46	10.4	16600	25500	3170	6210
ST 6A (AY)	65700	73900	273	50	7.35	26100	35200	1330	13300
ST 6B (AY)	50500	103000	281	36	6.31	19200	48800	1250	10400
ST 7 (AY)	49500	74400	857	39	8.52	17800	38600	1850	9870
ST 8A (AY)	44100	17400	367	83	42.7	8570	15100	5120	880
ST 8B (AY)	36100	13800	413	64	>50	6640	14500	5950	920
ST 8C (AY)	57200	43900	908	87	20.4	19600	26800	3210	5760
ST 9 (AY)	41800	52400	417	85	27.4	9180	18000	4920	3930
<b>UNITS</b>	<b>ppm</b>	<b>ppm</b>	<b>ppm</b>	<b>ppm</b>	<b>%</b>	<b>ppm</b>	<b>ppm</b>	<b>ppm</b>	<b>ppm</b>
<b>DET LIM</b>	<b>50</b>	<b>50</b>	<b>5</b>	<b>1</b>	<b>0.01</b>	<b>20</b>	<b>20</b>	<b>1</b>	<b>20</b>
<b>SCHEME</b>	<b>4A/OE</b>	<b>4A/OE</b>	<b>4A/OE</b>	<b>4A/OE</b>	<b>4A/OE</b>	<b>4A/OE</b>	<b>4A/OE</b>	<b>4A/OE</b>	<b>4A/OE</b>

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**FINAL REPORT**

Ref : F3033

Job : 200080

SAMPLE	Ni	P	S	Sc	Ti	V	Zn	Ag	As
ST 1 (AY)	144	1650	210	21	6790	626	224	0.1	61
ST 3 (AY)	153	1400	280	10	2090	195	170	0.1	99
ST 4A (AY)	318	280	280	5	1240	126	116	<0.1	46
ST 4B (AY)	194	840	300	15	2340	211	143	<0.1	44
ST 5 (AY)	88	830	1030	25	4150	230	131	0.2	28
ST 6A (AY)	75	1370	400	29	4840	216	92	0.1	9
ST 6B (AY)	79	1280	440	41	4470	163	75	0.1	7
ST 7 (AY)	87	1010	150	34	5270	222	127	<0.1	9
ST 8A (AY)	145	1880	110	21	>20000	1600	514	0.2	10
ST 8B (AY)	166	1390	90	17	>20000	1860	589	0.2	9
ST 8C (AY)	146	2350	140	29	7760	599	221	0.1	17
ST 9 (AY)	262	1170	810	23	2290	351	437	<0.1	77
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DET LIM	1	50	50	1	5	1	1	0.1	1
SCHEME	4A/OE	4A/OE	4A/OE	4A/OE	4A/OE	4A/OE	4A/OE	4A/MS	4A/MS

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## FINAL REPORT

Ref : F3033

Job : 200080

SAMPLE	Ba	Be	Bi	Cd	Co	Cs	Ga	Ge	Hf
ST 1 (AY)	2210	4.5	0.34	0.52	132	3.1	21.8	1.4	2.2
ST 3 (AY)	3470	3.9	0.46	0.86	244	4.7	20.6	1.6	1.5
ST 4A (AY)	530	1.2	0.30	0.16	80	1.9	10.0	1.0	0.6
ST 4B (AY)	1910	2.0	0.30	0.18	76	3.1	12.3	1.4	1.4
ST 5 (AY)	1750	2.1	0.34	0.22	48	5.8	16.1	1.6	2.4
ST 6A (AY)	1280	2.1	0.21	0.08	32	3.1	16.3	1.6	3.5
ST 6B (AY)	945	1.7	0.16	0.08	31	2.2	13.1	1.6	3.4
ST 7 (AY)	897	1.8	0.19	0.08	37	2.2	14.0	1.7	2.9
ST 8A (AY)	1890	2.7	0.24	0.16	146	3.7	40.4	1.4	4.2
ST 8B (AY)	1380	2.1	0.25	0.14	165	3.1	43.7	1.2	4.0
ST 8C (AY)	2500	3.5	0.22	0.16	79	4.0	20.5	1.6	3.0
ST 9 (AY)	1330	2.8	1.04	0.29	96	2.6	13.6	1.2	2.0
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DET LIM	1	0.5	0.05	0.05	1	0.1	0.1	0.1	0.1
SCHEME	4A/MS	4A/MS	4A/MS	4A/MS	4A/MS	4A/MS	4A/MS	4A/MS	4A/MS

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5 of 14

**FINAL REPORT**

Ref : F3033

Job : 200080

SAMPLE	In	Li	Mo	Nb	Pb	Rb	Re	Sb	Se
ST 1 (AY)	0.09	24.3	1.4	5.6	92	46.2	<0.05	7.6	2
ST 3 (AY)	0.06	40.8	2.2	4.0	155	59.7	<0.05	6.0	2
ST 4A (AY)	<0.05	20.8	1.9	1.4	48	23.9	<0.05	7.9	<1
ST 4B (AY)	<0.05	21.0	1.3	3.0	55	44.0	<0.05	5.9	1
ST 5 (AY)	0.08	30.3	1.1	5.9	58	72.1	<0.05	5.9	1
ST 6A (AY)	0.07	15.6	0.9	5.0	31	89.0	<0.05	2.7	1
ST 6B (AY)	0.08	12.7	0.8	3.9	23	65.1	<0.05	2.7	1
ST 7 (AY)	0.08	13.5	0.9	4.5	28	61.9	<0.05	3.5	1
ST 8A (AY)	0.14	26.5	0.8	15.0	62	38.0	<0.05	2.9	1
ST 8B (AY)	0.14	27.5	0.7	16.1	59	29.3	<0.05	2.1	<1
ST 8C (AY)	0.08	24.2	0.9	6.0	45	72.5	<0.05	3.6	2
ST 9 (AY)	0.10	10.8	2.4	3.4	61	42.1	<0.05	6.2	1
UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DET LIM	0.05	0.1	0.1	0.1	1	0.1	0.05	0.1	1
SCHEME	4A/MS	4A/MS	4A/MS	4A/MS	4A/MS	4A/MS	4A/MS	4A/MS	4A/MS

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**FINAL REPORT**

Ref : F3033

Job : 200080

SAMPLE	Sn	Sr	Ta	Te	Th	Tl	U	W	Y
ST 1 (AY)	3.5	346	0.38	0.4	7.40	0.39	2.53	1.4	20.1
ST 3 (AY)	1.8	181	0.34	0.4	6.92	0.81	2.38	1.9	19.2
ST 4A (AY)	1.0	127	0.11	0.3	2.56	0.19	0.67	1.6	6.7
ST 4B (AY)	1.8	460	0.21	0.3	5.23	0.24	1.29	1.4	13.5
ST 5 (AY)	3.1	509	0.40	0.2	8.40	0.41	1.94	1.8	17.1
ST 6A (AY)	2.5	783	0.42	<0.1	11.7	0.34	3.09	1.3	20.9
ST 6B (AY)	2.5	664	0.34	<0.1	8.89	0.26	2.30	1.1	22.3
ST 7 (AY)	2.6	502	0.35	<0.1	8.17	0.24	2.18	1.1	17.5
ST 8A (AY)	7.0	374	0.77	<0.1	10.9	0.29	4.90	1.2	12.4
ST 8B (AY)	8.0	251	0.79	<0.1	9.22	0.26	4.64	1.0	10.0
ST 8C (AY)	3.5	623	0.36	0.1	9.66	0.33	3.09	1.3	21.5
ST 9 (AY)	2.4	292	0.25	0.9	8.48	0.24	2.33	1.1	25.1
<b>UNITS</b>	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DET LIM	0.1	0.5	0.05	0.1	0.05	0.02	0.05	0.1	0.1
SCHEME	4A/MS	4A/MS	4A/MS	4A/MS	4A/MS	4A/MS	4A/MS	4A/MS	4A/MS

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**FINAL REPORT**

Ref: F3033

Job : 200080

SAMPLE	Zr	Fe	Ti						
ST 1 (AY)	98.2	--	--						
ST 3 (AY)	53.5	--	--						
ST 4A (AY)	20.5	--	--						
ST 4B (AY)	48.6	--	--						
ST 5 (AY)	84.5	--	--						
ST 6A (AY)	114	--	--						
ST 6B (AY)	107	--	--						
ST 7 (AY)	89.6	--	--						
ST 8A (AY)	188	--	2.67						
ST 8B (AY)	186	50.1	3.04						
ST 8C (AY)	109	--	--						
ST 9 (AY)	72.9	--	--						
<b>UNITS</b>	<b>ppm</b>	<b>%</b>	<b>%</b>						
<b>DET LIM</b>	<b>0.5</b>	<b>0.01</b>	<b>0.01</b>						
<b>SCHEME</b>	<b>4A/MS</b>	<b>4AHZ/AA</b>	<b>FB1/XRF250</b>						

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**QUALITY CONTROL**

Ref : F3033

Job : 200080

SAMPLE	Al	Ca	Cr	Cu	Fe	K	Mg	Mn	Na
BLK BLANK	<50	<50	<5	<1	<0.01	<20	<20	<1	<20
REP ST 3 (AY)	56800	7910	118	62	23.5	9950	5600	29400	4010
UNK ST 3 (AY)	56800	8040	120	64	23.5	9950	5660	29400	4010
STD BM 161	52400	55500	1310	701	5.76	7470	24900	939	7910
Lower Bound	48240	50220		618.3	5.36	6750	22590	847.8	7110
Upper Bound	58960	61380		755.7	6.56	8250	27610	1036.2	8690
STD BM-16/214								20000	
Lower Bound								15980	
Upper Bound								21620	
STD NI_LTRT12					43.9				
Lower Bound					39.42				
Upper Bound					48.18				
STD NIST 697									
Lower Bound									
Upper Bound									
STD OREAS 501C	75100	26700	77	2750	4.46	32200	15600	547	20900
Lower Bound	59920	23760	64	2484	4	28980	13590	465.8	16160
Upper Bound	89880	29040	96	3036	4.9	35420	16610	630.2	24240

UNITS	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
DETECTION LIMIT	50	50	5	1	0.01	20	20	1	20
SCHEME	4A/OE	4A/OE	4A/OE	4A/OE	4A/OE	4A/OE	4A/OE	4A/OE	4A/OE

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QUALITY CONTROL

Ref : F3033

Job : 200080

SAMPLE	Ni	P	S	Sc	Ti	V	Zn	Ag	As
BLK BLANK	<1	<50	<50	<1	<5	<1	<1	<0.1	<1
REP ST 3 (AY)	150	1370	270	9	2070	192	165	0.1	93
UNK ST 3 (AY)	153	1400	280	10	2090	195	170	0.1	99
STD BM 161	275	250	8700	18	2570	127	801	3	759
Lower Bound	247.5			16.2	2250	114.3	720.9	2.4	731.5
Upper Bound	302.5			19.8	2750	139.7	881.1	3.6	808.5
STD BM-16/214									
Lower Bound									
Upper Bound									
STD NI_LTRT12									
Lower Bound									
Upper Bound									
STD NIST 697									
Lower Bound									
Upper Bound									
STD OREAS 501C	62	1010	3460	13	4740	119	90	0.5	24
Lower Bound	48	804.8	2775.2	9.03		90	60.8	0.23	21.465
Upper Bound	72	1207.2	4162.8	16.77		150	101.2	0.69	26.235

UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	1	50	50	1	5	1	1	0.1	1
SCHEME	4A/OE	4A/OE	4A/OE	4A/OE	4A/OE	4A/OE	4A/OE	4A/MS	4A/MS

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**QUALITY CONTROL**

Ref : F3033

Job : 200080

SAMPLE	Ba	Be	Bi	Cd	Co	Cs	Ga	Ge	Hf
BLK BLANK	<1	<0.5	<0.05	<0.05	<1	<0.1	<0.1	<0.1	<0.1
REP ST 3 (AY)	3440	3.7	0.49	0.85	244	4.7	21	1.5	1.6
UNK ST 3 (AY)	3470	3.9	0.46	0.86	244	4.7	20.6	1.6	1.5
STD BM 161	254	0.7	3.77	2.42	56	2.3	12.8	1.4	1.5
Lower Bound	225.9			1.05	51.3				
Upper Bound	276.1			3.15	62.7				
STD BM-16/214									
Lower Bound									
Upper Bound									
STD NI_LTRT12									
Lower Bound									
Upper Bound									
STD NIST 697									
Lower Bound									
Upper Bound									
STD OREAS 501C	1040	3	0.7	0.2	15	11.6	19	1.6	2.6
Lower Bound	939.402	1.47	0.48	0.04	12.104	8.162	13.349		1.3
Upper Bound	1148.158	4.41	0.9	0.32	18.156	15.158	24.791		3.9

UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	1	0.5	0.05	0.05	1	0.1	0.1	0.1	0.1
SCHEME	4A/MS	4A/MS	4A/MS	4A/MS	4A/MS	4A/MS	4A/MS	4A/MS	4A/MS

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**QUALITY CONTROL**

Ref : F3033

Job : 200080

SAMPLE	In	Li	Mo	Nb	Pb	Rb	Re	Sb	Se
BLK BLANK	<0.05	<0.1	<0.1	<0.1	<1	<0.1	<0.05	<0.1	<1
REP ST 3 (AY)	0.06	40.8	2.2	4.1	147	59.7	<0.05	6	2
UNK ST 3 (AY)	0.06	40.8	2.2	4	155	59.7	<0.05	6	2
STD BM 161	0.22	24.3	9	2.3	915	33.4	<0.05	30	1
Lower Bound					862.6			27	
Upper Bound					953.4			33	
STD BM-16/214									
Lower Bound									
Upper Bound									
STD NI_LTRT12									
Lower Bound									
Upper Bound									
STD NIST 697									
Lower Bound									
Upper Bound									
STD OREAS 501C	0.08	33.9	99.4	18.5	21	197	<0.05	2.4	2
Lower Bound	0.02	28.747	87.588	14.68	17.16	157.168		0.57	1.03
Upper Bound	0.14	38.893	107.052	22.02	25.74	235.752		3.97	3.1

UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.05	0.1	0.1	0.1	1	0.1	0.05	0.1	1
SCHEME	4A/MS	4A/MS	4A/MS	4A/MS	4A/MS	4A/MS	4A/MS	4A/MS	4A/MS

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**QUALITY CONTROL**

Ref : F3033

Job : 200080

SAMPLE	Sn	Sr	Ta	Te	Th	Tl	U	W	Y
BLK BLANK	<0.1	<0.5	<0.05	<0.1	<0.05	<0.02	<0.05	<0.1	<0.1
REP ST 3 (AY)	1.8	178	0.32	0.4	7.12	0.78	2.32	1.9	19.2
UNK ST 3 (AY)	1.8	181	0.34	0.4	6.92	0.81	2.38	1.9	19.2
STD BM 161	3	84.1	0.59	0.8	3.3	0.36	0.91	38.9	12.2
Lower Bound									
Upper Bound									
STD 8M-16/214									
Lower Bound									
Upper Bound									
STD NI_LTRT12									
Lower Bound									
Upper Bound									
STD NIST 697									
Lower Bound									
Upper Bound									
STD OREAS 501C	3.4	324	1.37	0.3	18.9	0.97	5.13	4.5	25.1
Lower Bound	1.69	241.6725	0.66	0.06	13.223	0.24	4.1	2.24	17.458
Upper Bound	5.07	402.7875	1.98	0.44	24.557	1.7	6.16	6.72	32.422

UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DETECTION LIMIT	0.1	0.5	0.05	0.1	0.05	0.02	0.05	0.1	0.1
SCHEME	4A/MS	4A/MS	4A/MS	4A/MS	4A/MS	4A/MS	4A/MS	4A/MS	4A/MS

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**QUALITY CONTROL**

Ref : F3033

Job : 200080

SAMPLE	Zr	Fe	Ti
BLK BLANK	<0.5	<0.01	<0.01
REP ST 3 (AY)	54.1		
UNK ST 3 (AY)	53.5		
STD BM 161	50.5		
Lower Bound	46.8		
Upper Bound	57.2		
STD BM-16/214			
Lower Bound			
Upper Bound			
STD NI_LTRT12		44.7	
Lower Bound		39.321	
Upper Bound		48.059	
STD NIST 697			1.51
Lower Bound			1.48
Upper Bound			1.54
STD OREAS 501C	81.2		
Lower Bound	56.385		
Upper Bound	104.715		

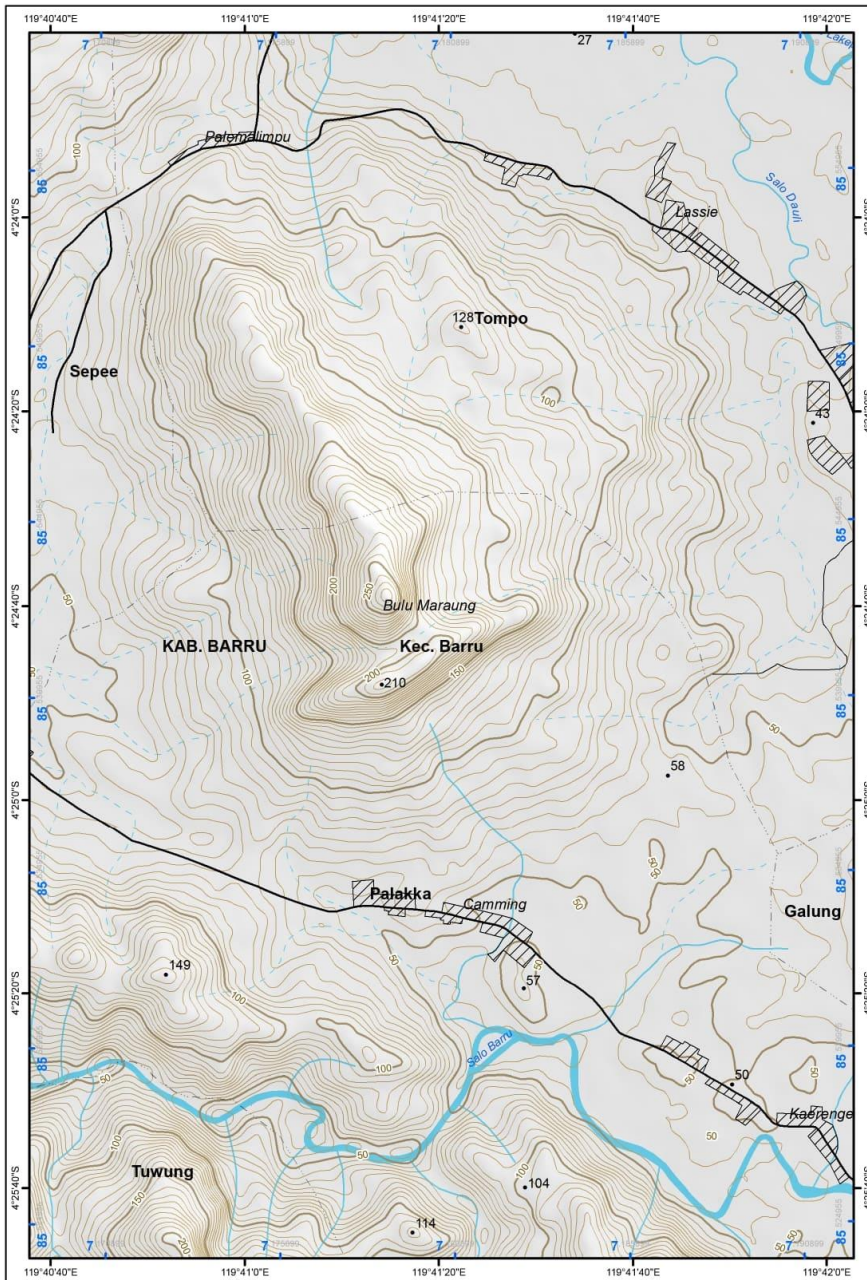
UNITS	ppm	%	%
DETECTION LIMIT	0.5	0.01	0.01
SCHEME	4A/MS	4AH2/AA	FB1/XRF250

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# 4. Peta - Peta



# 1. Peta Topografi



KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN  
 FAKULTAS TEKNIK UNIVERSITAS HASANUDDIN  
 PROGRAM STUDI MAGISTER GEOLOGI

## PETA TOPOGRAFI

DAERAH BULU MARAUNG KECAMATAN BARRU  
 KABUPATEN BARRU PROVINSI SULAWESI SELATAN



Skala 1:15.000  
 Interval Kontur 5 meter



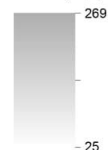
NAMA : A. NURUL ISMA YOGIE  
 N I M : D062171005

MAKASSAR  
 2021

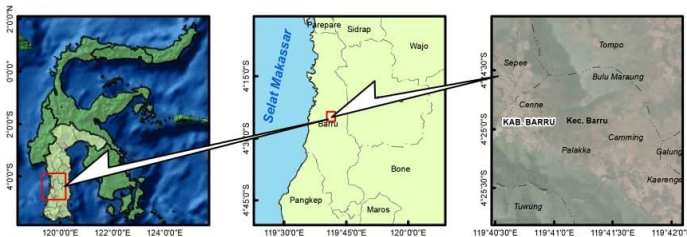
### Keterangan:

- Batas Desa
- Titik Ketinggian
- Kontur Indeks
- Garis Kontur
- Induk Sungai
- Sungai Permanen
- Sungai Musiman
- Jalan Lokal
- Jalan Lain
- Pemukiman

### Elevasi (mdpl)



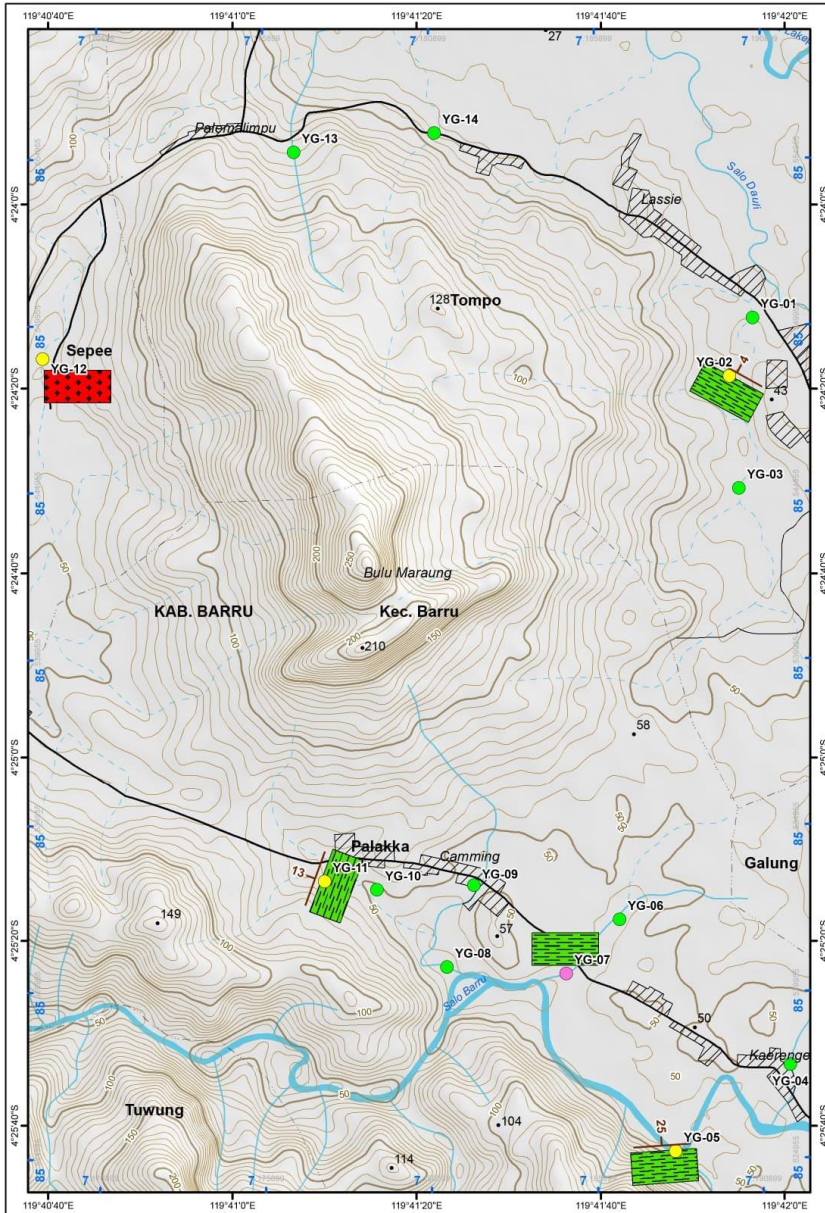
### PETA TUNJUK LOKASI



- Sumber Peta :
1. Peta Digital Rupa Bumi Indonesia Kabupaten Barru (BIG, 2016)
  2. SRTM 0.27 arc/second (DEMNAS-BIG, 2016)
  3. Citra Satelit ArcGIS Online Imagery (ESRI, 2016)



## 2. Peta Stasiun Pengamatan



KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN  
 FAKULTAS TEKNIK UNIVERSITAS HASANUDDIN  
 PROGRAM STUDI MAGISTER GEOLOGI

### PETA STASIUN PENGAMATAN DAN PENGAMBILAN SAMPEL

DAERAH BULU MARAUUNG KECAMATAN BARRU  
 KABUPATEN BARRU PROVINSI SULAWESI SELATAN



Skala 1:15.000  
 Interval Kontur 5 meter



NAMA : A. NURUL ISMA YOGIE  
 N I M : D062171005

MAKASSAR  
 2021

#### Keterangan:

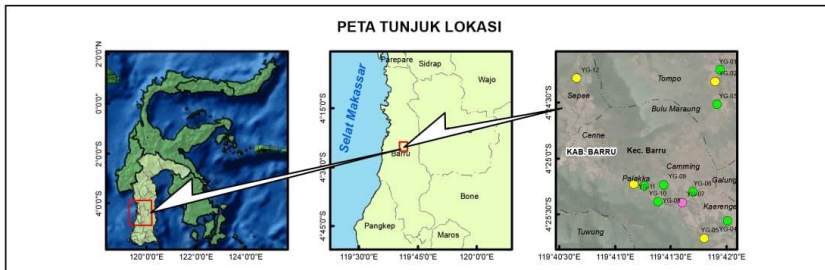
- Stasiun Pengambilan Contoh Sedimen Sungai
- Stasiun Pengambilan Contoh Batuan
- Stasiun Pengamatan & Pengambilan Contoh Sedimen
- Jurus dan kemiringan lapisan
- Batulempung karbonatan
- Diorit
- Batas Desa
- Titik Ketinggian
- Kontur Indeks
- Garis Kontur
- Induk Sungai
- Sungai Permanen
- Sungai Musiman
- Jalan Lokal
- Jalan Lain
- Pemukiman

#### Elevasi (mdpl)

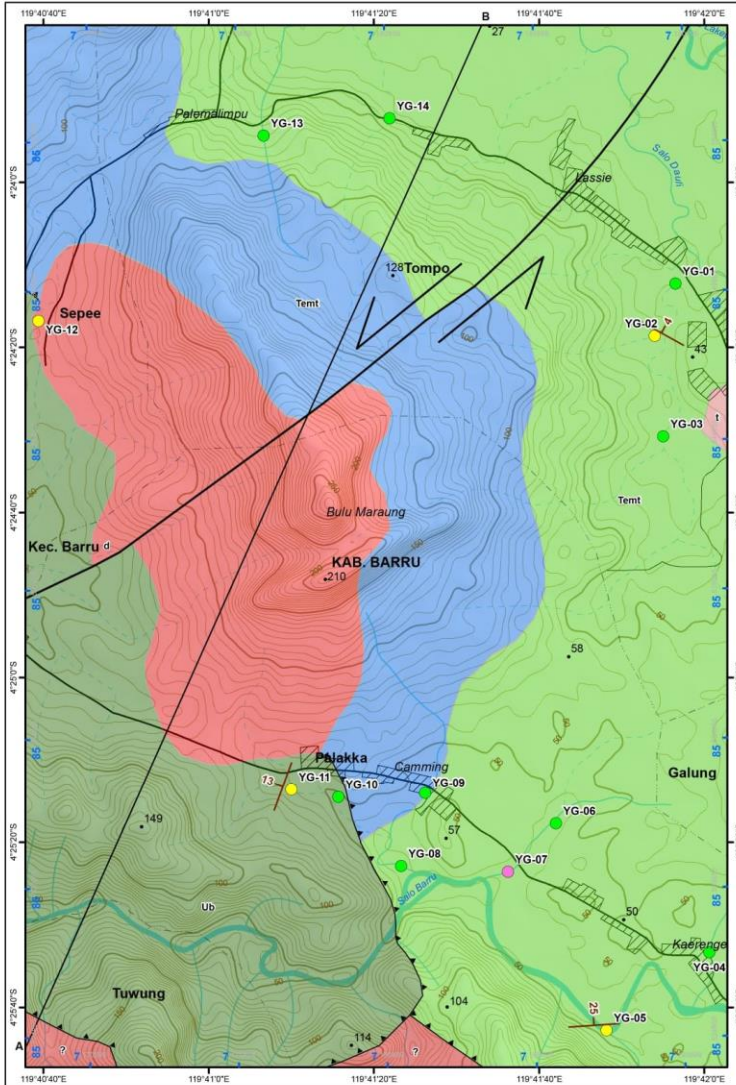


#### Sumber Peta :

1. Peta Digital Rupa Bumi Indonesia Kabupaten Barru (BIG, 2016)
2. SRTM 0.27 arc/second (DEMNAS-BIG, 2016)
3. Citra Satelit ArcGIS Online Imagery (ESRI, 2016)



### 3. Peta Geologi



KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN  
 FAKULTAS TEKNIK UNIVERSITAS HASANUDDIN  
 PROGRAM STUDI MAGISTER GEOLOGI

#### PETA GEOLOGI

DAERAH BULU MARAUUNG KECAMATAN BARRU  
 KABUPATEN BARRU PROVINSI SULAWESI SELATAN



Skala 1:15.000  
 Interval Kontur 5 meter



NAMA : A. NURUL ISMA YOGIE  
 N I M : D062171005

MAKASSAR  
 2021

#### Formasi Batuan

- d** Batuan Terobosan Diorit
- t** Trakit
- Temt** Batulempung Formasi Tonasa
- Temt** Batugamping Formasi Tonasa
- ?** Dasit
- Ub** Batuan Ultrabasa

#### Korelasi Satuan Peta

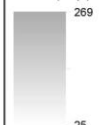
<b>d</b>	Batuan Terobosan Diorit	<b>d</b>	Holosen
<b>t</b>	Trakit	<b>t</b>	Plistosen
<b>Temt</b>	Batulempung Formasi Tonasa	<b>Temt</b>	Pliosen
<b>Temt</b>	Batugamping Formasi Tonasa	<b>Ub</b>	Akhir Tengahan
<b>?</b>	Dasit	<b>Ub</b>	Mesozoikum
<b>Ub</b>	Batuan Ultrabasa	<b>Ub</b>	Akhir Awal
		<b>Ub</b>	Oligosen
		<b>Ub</b>	Eosen
		<b>Ub</b>	Paleosen
		<b>Ub</b>	Kapur

- Sesar Geser
- Sesar Naik
- Jurus dan kemiringan lapisan
- Sayatan A - B

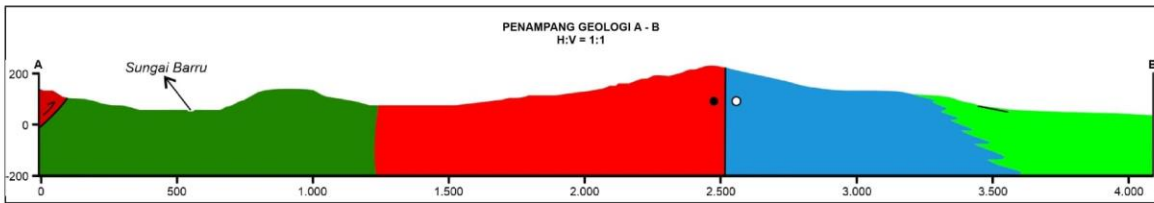
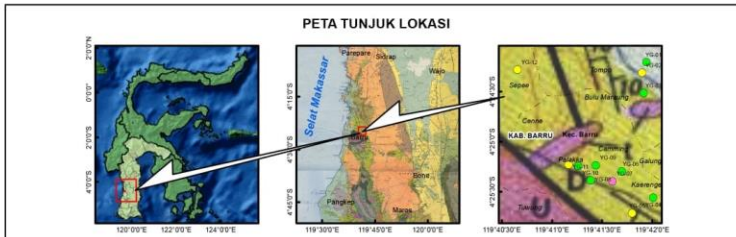
#### Keterangan:

- Stasiun Pengambilan Contoh Sedimen Sungai
- Stasiun Pengambilan Contoh Batuan
- Stasiun Pengamatan & Pengambilan Contoh Sedimen
- Batas Desa
- Titik Ketinggian
- Kontur Indeks
- Garis Kontur
- Induk Sungai
- Sungai Permanen
- Sungai Musiman
- Jalan Lokal
- Jalan Lain
- Pemukiman

#### Elevasi (mdpl)

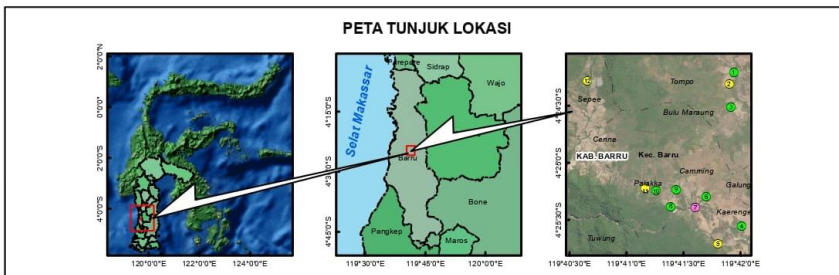
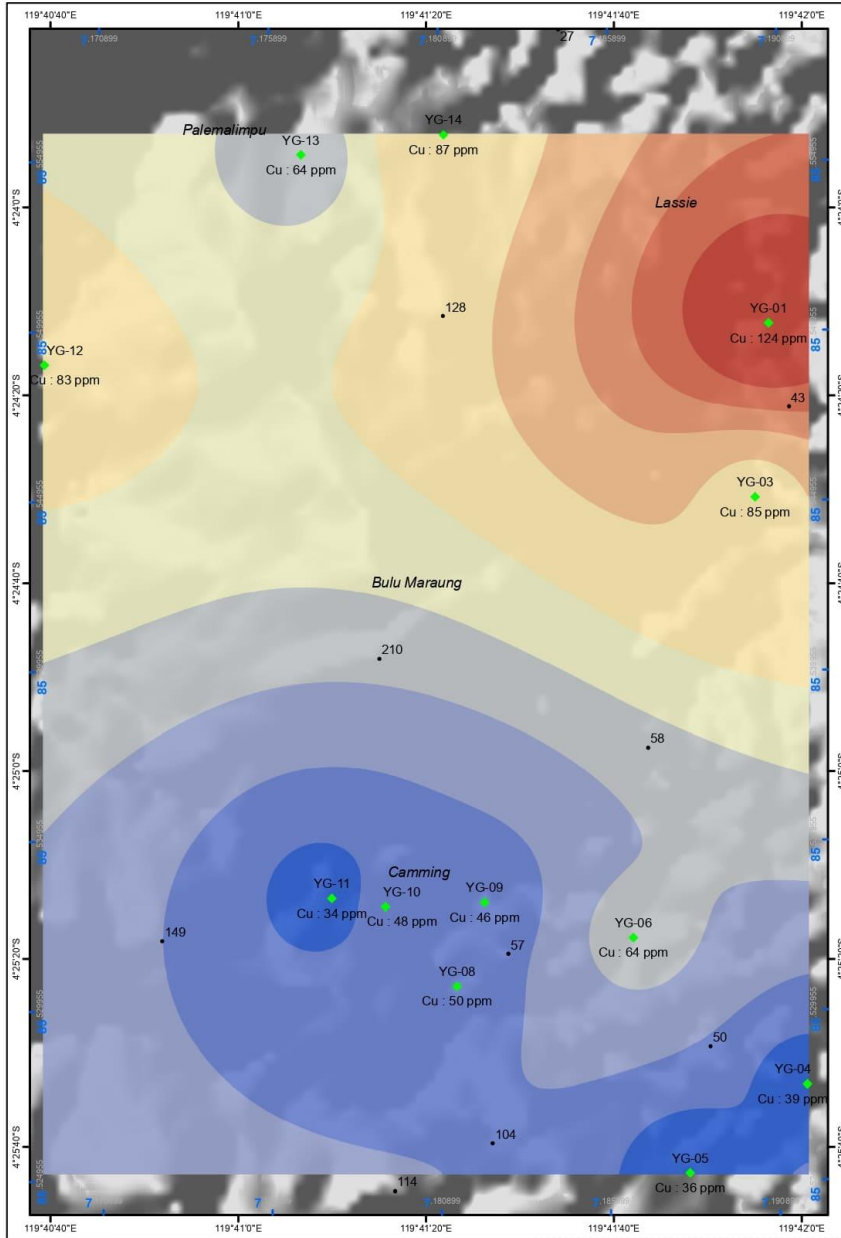


- Sumber Peta :
1. Peta Digital Rupa Bumi Indonesia Kabupaten Barru (BIG, 2016)
  2. SRTM 0.27 arc/second (DEMNAS-BIG, 2016)
  3. Peta Geologi Lembar Pangkajene & Watampone Bagian Barat, Sulawesi (Sukanto, 1982)
  4. Peta Geologi Daerah Lasitae Kabupaten Barru, Provinsi Sulawesi Selatan (Kaharuddin dkk., 2014)
  5. Citra Satelit ArcGIS Online Imagery (ESRI, 2016)





## 4. Peta Sebaran Cu



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### PETA PREDIKSI SEBARAN TEMBAGA (Cu)

DAERAH BULU MARAUING KECAMATAN BARRU  
KABUPATEN BARRU PROVINSI SULAWESI SELATAN



Skala 1:15.000  
Interval Kontur 25 meter



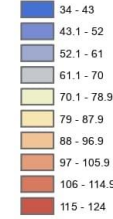
NAMA : A. NURUL ISMA YOGIE  
N I M : D062171005

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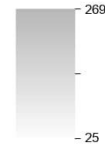
#### Keterangan:

◆ Sampling Point

#### Kadar Tembaga (ppm)



#### Elevasi (mdpl)

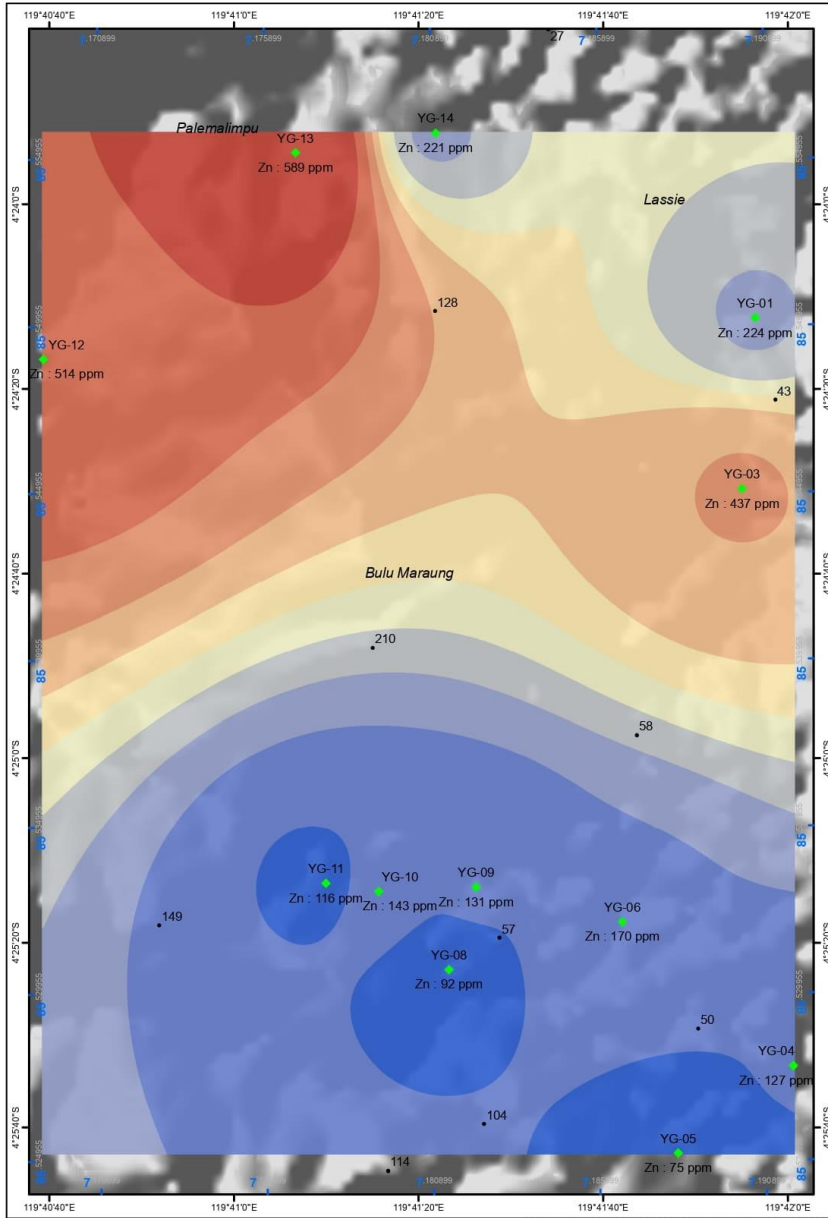


Method	Equal Intervals
Classes	10
Breaks	
[Min]	34
class #1	43
class #2	52
class #3	61
class #4	70
class #5	79
class #6	88
class #7	97
class #8	106
class #9	115
[Max]	124
Statistics	
Count	12
Minimum	34
Maximum	124
Mean	63.3
StdDev	27.0
Skewness	0.9
Kurtosis	3.0
Quartile1	42.5
Median	57
Quartile3	84

#### Sumber Peta :

1. Analisa Geostatistik Inverse Distance Weight (IDW)
2. Peta Digital Rupa Bumi Indonesia Kabupaten Barru (BIG, 2016)
3. SRTM 1 arc/second (USGS, 2014)
4. Citra Satelit ArcGIS Online Imagery (ESRI, 2016)

## 5. Peta Sebaran Zn



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### PETA PREDIKSI SEBARAN SENG / ZINC (Zn)

DAERAH BULU MARAUNG KECAMATAN BARRU  
 KABUPATEN BARRU PROVINSI SULAWESI SELATAN



Skala 1:15.000



NAMA : A. NURUL ISMA YOGIE

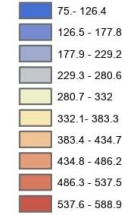
N I M : D062171005

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#### Keterangan:

◆ Sampling Point

#### Kadar Seng / Zinc (ppm)



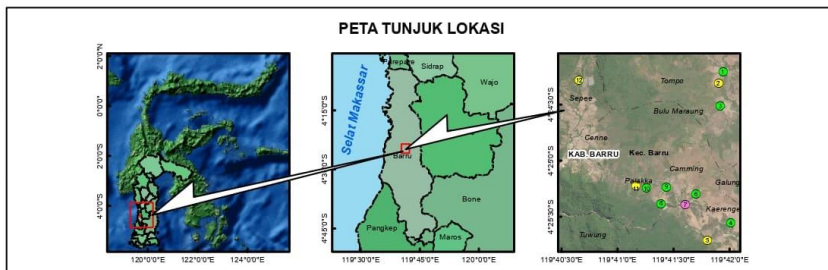
#### Elevasi (mdpl)



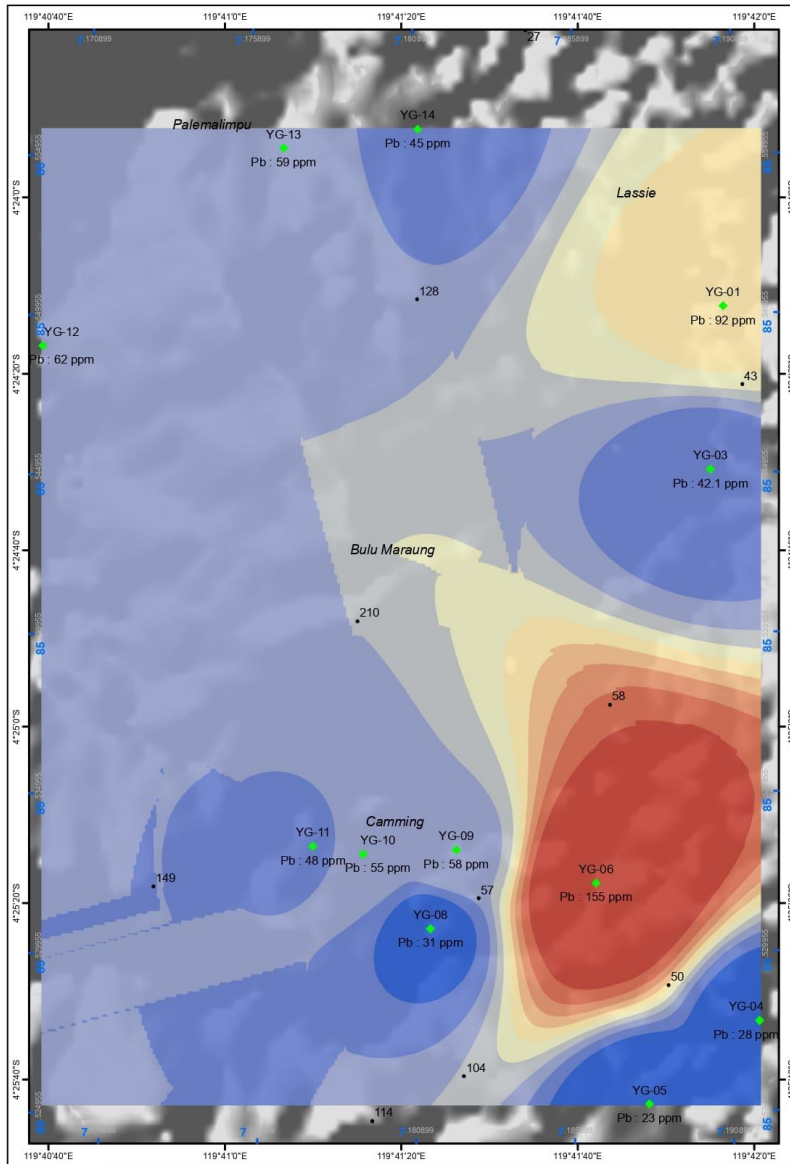
Method	: Equal Intervals
Classes	: 10
Breaks	
[Min]	: 75
class #1	: 126.4
class #2	: 177.8
class #3	: 229.2
class #4	: 280.6
class #5	: 332
class #6	: 383.4
class #7	: 434.8
class #8	: 486.2
class #9	: 537.6
[Max]	: 589
Statistics	
Count	: 12
Minimum	: 75
Maximum	: 589
Mean	: 236.6
StdDev	: 175.7
Skewness	: 1.1
Kurtosis	: 2.6
Quartile1	: 121.5
Median	: 156.5
Quartile3	: 330.5

#### Sumber Peta :

1. Analisa Geostatistik Inverse Distance Weigh (IDW)
2. Peta Digital Rupa Bumi Indonesia Kabupaten Barru (BIG, 2016)
3. SRTM 1 arc/second (USGS, 2014)
4. Citra Satelit ArcGIS Online Imagery (ESRI, 2016)



## 6. Peta Sebaran Pb



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**PETA PREDIKSI SEBARAN TIMAH (Pb)**  
 DAERAH BULU MARAUNG KECAMATAN BARRU  
 KABUPATEN BARRU PROVINSI SULAWESI SELATAN



Skala 1:15.000



NAMA : A. NURUL ISMA YOGIE  
 N I M : D062171005

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**Keterangan:**

◆ Sampling Point

**Kadar Timah (ppm)**



**Elevasi (mdpl)**



Method : .. Equal Intervals

Classes : ..... 10

Breaks

[Min] : ..... 23

class #1 : ..... 36.2

class #2 : ..... 49.4

class #3 : ..... 62.6

class #4 : ..... 75.8

class #5 : ..... 89

class #6 : ..... 102.2

class #7 : ..... 115.4

class #8 : ..... 128.6

class #9 : ..... 141.8

[Max] : ..... 155

Statistics

Count : ..... 12

Minimum : ..... 23

Maximum : ..... 155

Mean : ..... 58.2

StdDev : ..... 35.6

Skewness : ..... 1.8

Kurtosis : ..... 5.7

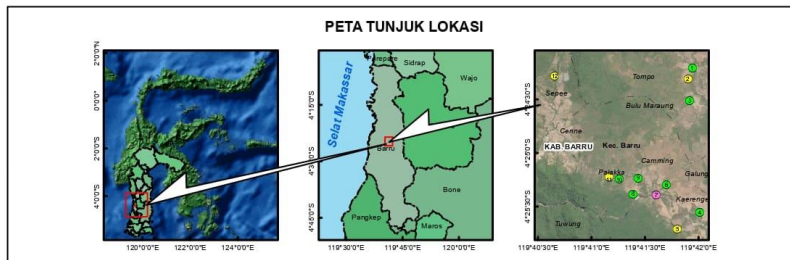
Quartile1 : ..... 36.6

Median : ..... 51.5

Quartile3 : ..... 60.5

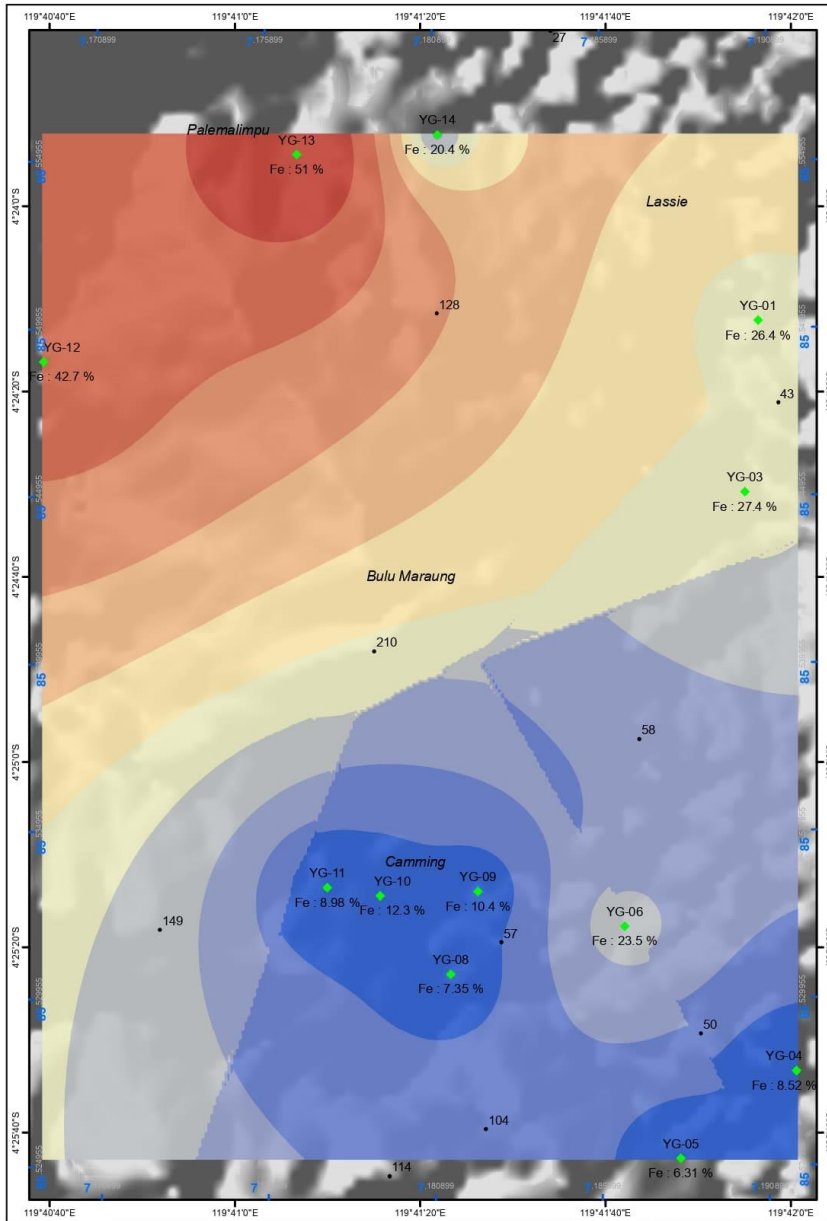
Sumber Peta :

1. Analisa Geostatistik Inverse Distance Weigh (IDW)
2. Peta Digital Rupa Bumi Indonesia Kabupaten Barru (BIG, 2016)
3. SRTM 1 arc/second (USGS, 2014)
4. Citra Satelit ArcGIS Online Imagery (ESRI, 2016)





## 7. Peta Sebaran Fe



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### PETA PREDIKSI SEBARAN BESI (Fe)

DAERAH BULU MARAUING KECAMATAN BARRU  
 KABUPATEN BARRU PROVINSI SULAWESI SELATAN



Skala 1:15.000



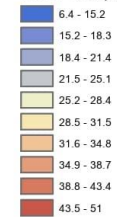
NAMA : A. NURUL ISMA YOGIE  
 N I M : D062171005

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#### Keterangan:

◆ Sampling Point

#### Kadar BESI (wt %)



#### Elevasi (mdpl)

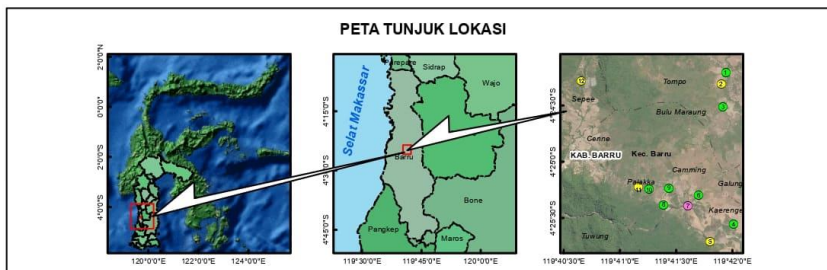


Method : ..... Equal Intervals  
 Classes : ..... 10  
 Breaks : .....  
 [Min] : ..... 6.3  
 class #1 : ..... 10.8  
 class #2 : ..... 15.2  
 class #3 : ..... 19.7  
 class #4 : ..... 24.2  
 class #5 : ..... 28.7  
 class #6 : ..... 33.1  
 class #7 : ..... 37.6  
 class #8 : ..... 42.1  
 class #9 : ..... 46.5  
 [Max] : ..... 51

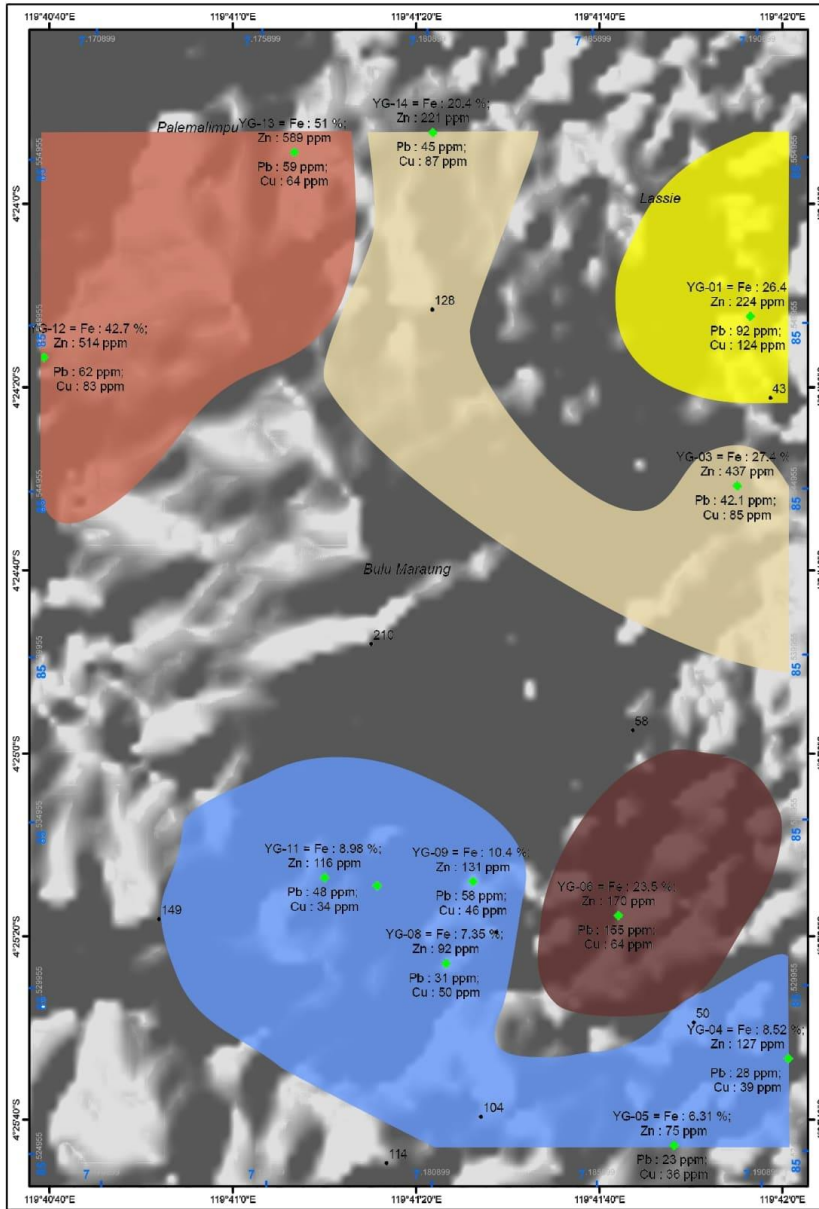
Statistics  
 Count : ..... 12  
 Minimum : ..... 6.3  
 Maximum : ..... 51  
 Mean : ..... 20.4  
 StdDev : ..... 14.6  
 Skewness : ..... 0.9  
 Kurtosis : ..... 2.7  
 Quartile1 : ..... 8.8  
 Median : ..... 16.4  
 Quartile3 : ..... 26.9

#### Sumber Peta :

1. Analisa Geostatistik Inverse Distance Weigth (IDW)
2. Peta Digital Rupa Bumi Indonesia Kabupaten Barru (BIG, 2016)
3. SRTM 1 arc/second (USGS, 2014)
4. Citra Satelit ArcGIS Online Imagery (ESRI, 2016)



## 8. Peta Distribusi Base Matel



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### PETA DISTRIBUSI SEBARAN UNSUR LOGAM DASAR

DAERAH BULU MARAUNG KECAMATAN BARRU  
KABUPATEN BARRU PROVINSI SULAWESI SELATAN



Skala 1:15.000  
Interval Kontur 25 meter

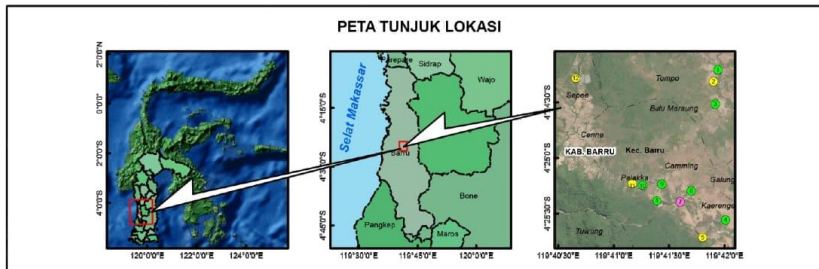


NAMA : A. NURUL ISMA YOGIE  
N I M : D062171005

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#### Keterangan:

- ◆ Sampling Point
- High Cu, Med Fe, Low Zn & Pb
- High Fe & Zn, Med Cu & Low Pb
- High Pb, Low Pb, Zn & Cu
- Med Zn, Cu & Fe, Low Pb
- Low Zn, Cu, Fe, & Pb



#### Sumber Peta :

1. Analisa Geostatistik Inverse Distance Weight (IDW)
2. Peta Digital Rupa Bumi Indonesia Kabupaten Barru (BIG, 2016)
3. SRTM 1 arc/second (USGS, 2014)
4. Citra Satelit ArcGIS Online Imagery (ESRI, 2016)