

Lampiran

Lampiran 1. Hasil Uji Ayakan

1. Hasil Sampel Uji Kiri-Atas



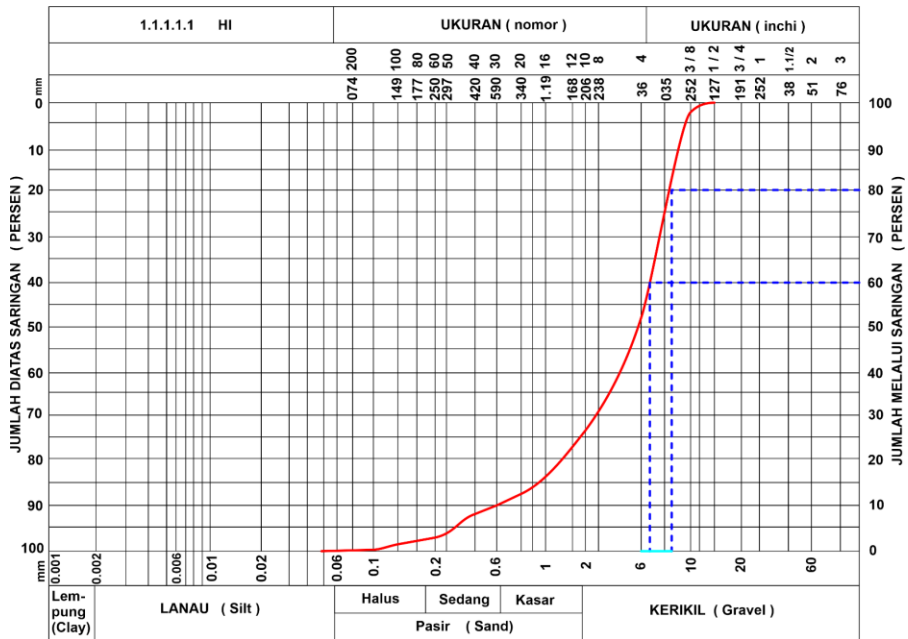
Laboratorium Mekanika Tanah
Program Studi Teknik Sipil Fakultas Teknik Sipil dan Perencanaan
Institut Teknologi Nasional Yogyakarta

Jl. Babarsari, Tambak Bayan, Caturtunggal, Kec. Depok, Kabupaten Sleman, Daerah Istimewa Yogyakarta 55281

No. Pengujian : Kiri 1
 Jenis Contoh : Kerikil 1-1 Crusher
 Jumlah Contoh :
 Diterima Tanggal :
 Diuji Tanggal : 20-05-2022
 Diuji Oleh : Haris Nur Eka Prasetya
 Diperiksa Oleh :

Pengujian dilaksanakan sesuai dengan metode uji SNI ASTM C136:2012

Saringan mm (inci)	Massa Tertahan		Persentase Kumulatif		Spesifikasi
	Gram (a)	Gram (b)	Tertahan (c)	Lolos (d)	
12.7 mm (No. 1/2)	0	0	0.000%	100.000%	
9,5 mm (No. 3/8)	60	60	3.871%	96.129%	
4,760 mm (No. 4)	665	725	46.774%	53.226%	
2,000 mm (No. 10)	410	1135	73.226%	26.774%	
0,841 mm (No. 20)	205	1340	86.452%	13.548%	
0,595 mm (No. 30)	40	1380	89.032%	10.968%	
0,420 mm (No. 40)	65	1445	93.226%	6.774%	
0.250 mm (No. 60)	35	1480	95.484%	4.516%	
0,149 mm (No. 100)	30	1510	97.419%	2.581%	
0,074 mm (No. 200)	30	1540	99.355%	0.645%	
pan	10	1550	100.000%	0.000%	
Modulus Kehalusan :					



D80	D60
8.47	6.71

2. Hasil Sampel Uji Kiri-Tengah



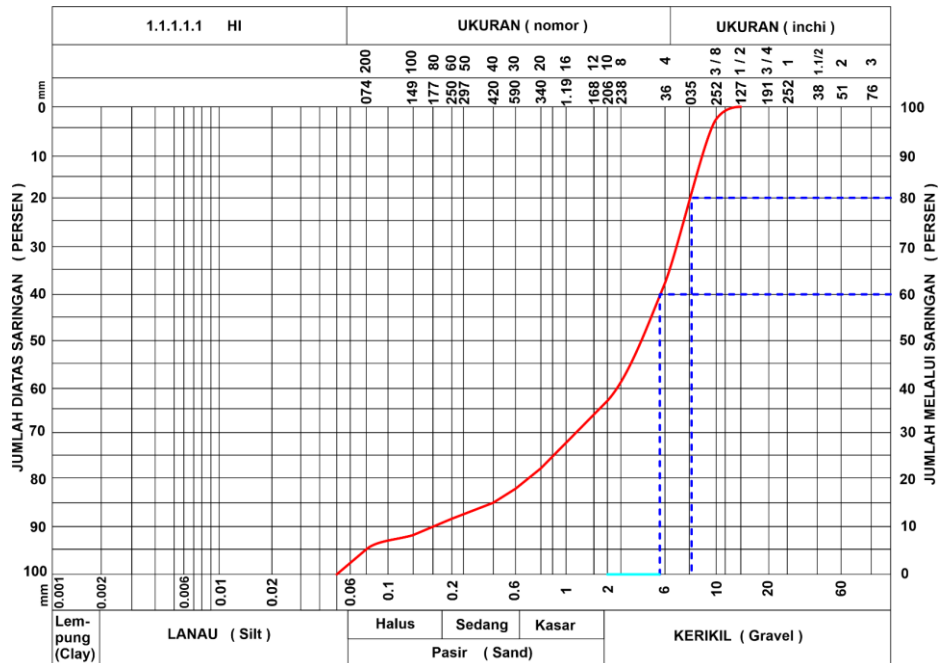
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Institut Teknologi Nasional Yogyakarta

Jl. Babarsari, Tambak Bayan, Caturtunggal, Kec. Depok, Kabupaten Sleman, Daerah Istimewa Yogyakarta 55281

No. Pengujian : Kiri 2
 Jenis Contoh : Kerikil 1-1 Crusher
 Jumlah Contoh :
 Diterima Tanggal :
 Diuji Tanggal : 20-05-2022
 Diuji Oleh : Haris Nur Eka Prasetya
 Diperiksa Oleh :

Pengujian dilaksanakan sesuai dengan metode uji SNI ASTM C136:2012

Saringan mm (inci)	Massa Tertahan		Persentase Kumulatif		Spesifikasi
	Gram (a)	Gram (b)	Tertahan (c)	Lolos (d)	
12.7 mm (No. 1/2)	0	0	0.000%	100.000%	
9,5 mm (No. 3/8)	60	60	3.409%	96.591%	
4,760 mm (No. 4)	620	680	38.636%	61.364%	
2,000 mm (No. 10)	445	1125	63.920%	36.080%	
0,841 mm (No. 20)	235	1360	77.273%	22.727%	
0,595 mm (No. 30)	60	1420	80.682%	19.318%	
0,420 mm (No. 40)	65	1485	84.375%	15.625%	
0.250 mm (No. 60)	65	1550	88.068%	11.932%	
0,149 mm (No. 100)	55	1605	91.193%	8.807%	
0,074 mm (No. 200)	65	1670	94.886%	5.114%	
pan	90	1760	100.000%	0.000%	
Modulus Keahlian :					



D80	D60
7.99	5.62

3. Sampel Uji Kiri-Bawah



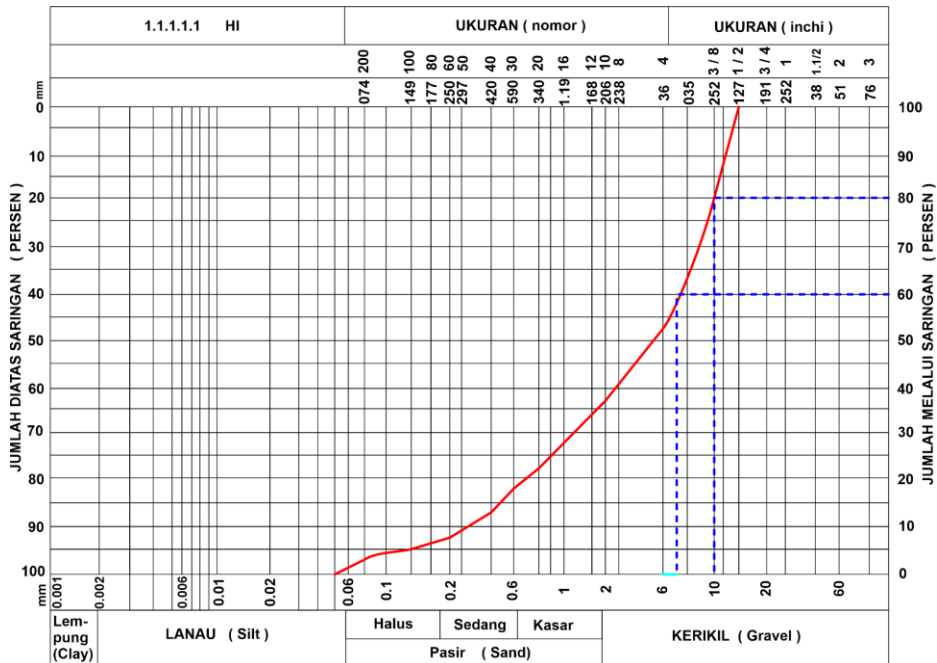
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*Jl. Babarsari, Tambak Bayan, Caturtunggal, Kec. Depok, Kabupaten Sleman,
 Daerah Istimewa Yogyakarta 55281*

No. Pengujian : Kiri 3
 Jenis Contoh : Kerikil 1-1 Crusher
 Jumlah Contoh :
 Diterima Tanggal :
 Diuji Tanggal : 20-05-2022
 Diuji Oleh : Haris Nur Eka Prasetya
 Diperiksa Oleh :

Pengujian dilaksanakan sesuai dengan metode uji SNI ASTM C136:2012

Saringan mm (inci)	Massa Tertahan		Persentase Kumulatif		Spesifikasi
	Gram (a)	Gram (b)	Tertahan (c)	Lolos (d)	
12.7 mm (No. 1/2)	0	0	0.000%	100.000%	
9,5 mm (No. 3/8)	320	320	20.000%	80.000%	
4,760 mm (No. 4)	430	750	46.875%	53.125%	
2,000 mm (No. 10)	270	1020	63.750%	36.250%	
0,841 mm (No. 20)	210	1230	76.875%	23.125%	
0,595 mm (No. 30)	75	1305	81.563%	18.438%	
0,420 mm (No. 40)	95	1400	87.500%	12.500%	
0.250 mm (No. 60)	75	1475	92.188%	7.813%	
0,149 mm (No. 100)	45	1520	95.000%	5.000%	
0,074 mm (No. 200)	35	1555	97.188%	2.813%	
pan	45	1600	100.000%	0.000%	
Modulus Kehalusan :					



D80	D60
10.00	7.05

4. Sampel Uji Tengah-Atas



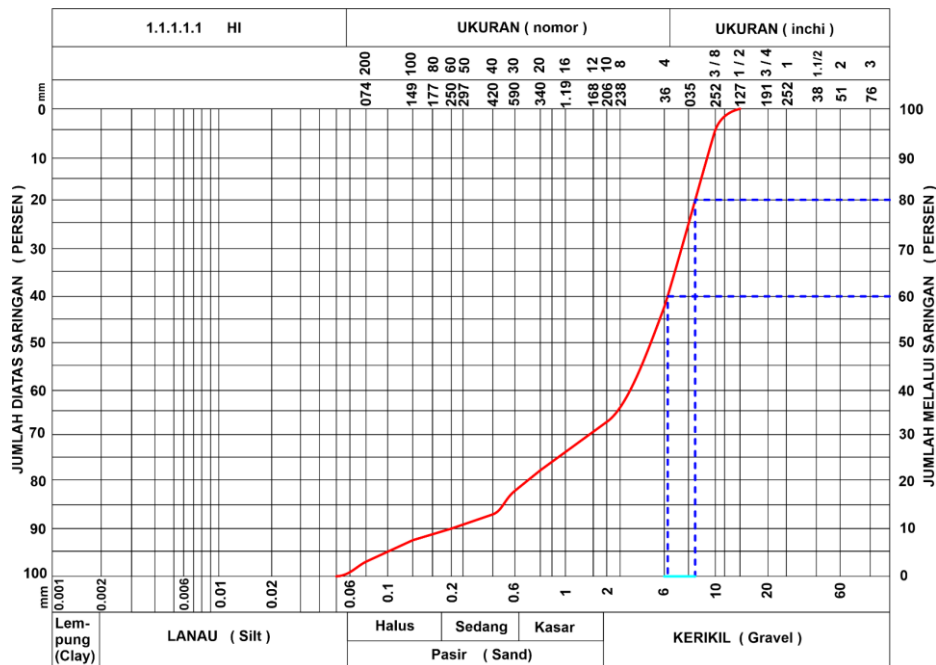
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Institut Teknologi Nasional Yogyakarta

Jl. Babarsari, Tambak Bayan, Caturtunggal, Kec. Depok, Kabupaten Sleman, Daerah Istimewa Yogyakarta 55281

No. Pengujian : Tengah 1
 Jenis Contoh : Kerikil 1-1 Crusher
 Jumlah Contoh :
 Diterima Tanggal :
 Diuji Tanggal : 20-05-2022
 Diuji Oleh : Haris Nur Eka Prasetya
 Diperiksa Oleh :

Pengujian dilaksanakan sesuai dengan metode uji SNI ASTM C136:2012

Saringan mm (inci)	Massa Tertahan		Persentase Kumulatif		Spesifikasi
	Gram (a)	Gram (b)	Tertahan (c)	Lolos (d)	
12.7 mm (No. 1/2)	0	0	0.000%	100.000%	
9,5 mm (No. 3/8)	70	70	4.930%	95.070%	
4,760 mm (No. 4)	520	590	41.549%	58.451%	
2,000 mm (No. 10)	350	940	66.197%	33.803%	
0,841 mm (No. 20)	175	1115	78.521%	21.479%	
0,595 mm (No. 30)	45	1160	81.690%	18.310%	
0,420 mm (No. 40)	55	1215	85.563%	14.437%	
0.250 mm (No. 60)	50	1265	89.085%	10.915%	
0,149 mm (No. 100)	45	1310	92.254%	7.746%	
0,074 mm (No. 200)	70	1380	97.183%	2.817%	
pan	40	1420	100.000%	0.000%	
Modulus Kehalusan :					



D80	D60
8.42	6.27

5. Sampel Uji Tengah-Tengah



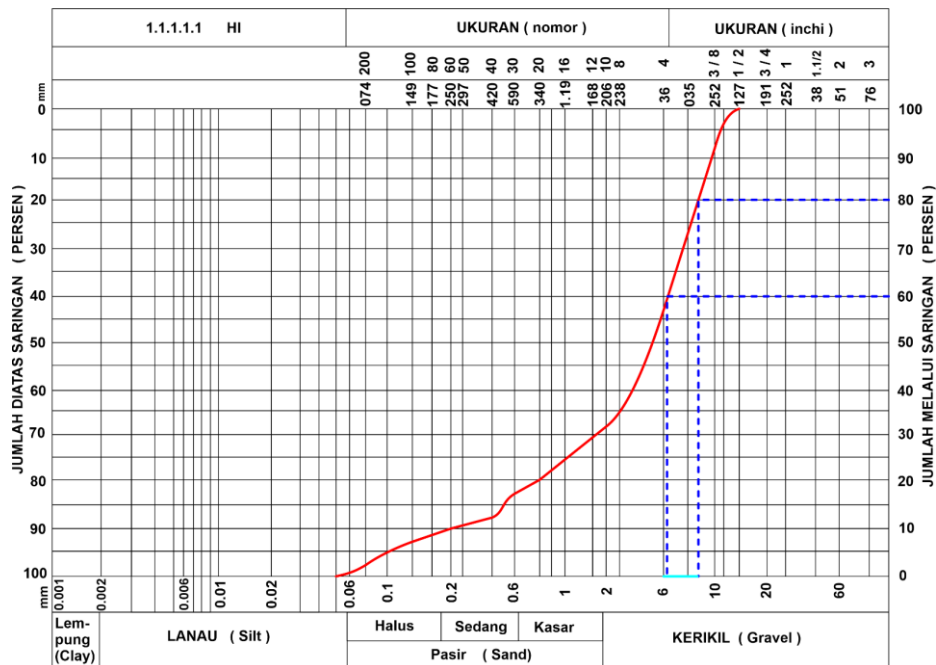
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 Daerah Istimewa Yogyakarta 55281*

No. Pengujian : Tengah 2
 Jenis Contoh : Kerikil 1-1 Crusher
 Jumlah Contoh :
 Diterima Tanggal :
 Diuji Tanggal : 20-05-2022
 Diuji Oleh : Haris Nur Eka Prasetya
 Diperiksa Oleh :

Pengujian dilaksanakan sesuai dengan metode uji SNI ASTM C136:2012

Saringan mm (inci)	Massa Tertahan		Persentase Kumulatif		Spesifikasi
	Gram (a)	Gram (b)	Tertahan (c)	Lolos (d)	
12.7 mm (No. 1/2)	0	0	0.000%	100.000%	
9,5 mm (No. 3/8)	90	90	6.143%	93.857%	
4,760 mm (No. 4)	545	635	43.345%	56.655%	
2,000 mm (No. 10)	350	985	67.235%	32.765%	
0,841 mm (No. 20)	175	1160	79.181%	20.819%	
0,595 mm (No. 30)	45	1205	82.253%	17.747%	
0,420 mm (No. 40)	55	1260	86.007%	13.993%	
0.250 mm (No. 60)	50	1310	89.420%	10.580%	
0,149 mm (No. 100)	40	1350	92.150%	7.850%	
0,074 mm (No. 200)	70	1420	96.928%	3.072%	
pan	45	1465	100.000%	0.000%	
Modulus Kehalusan :					



D80	D60
8.65	6.27

6. Sampel Uji Tengah-Bawah



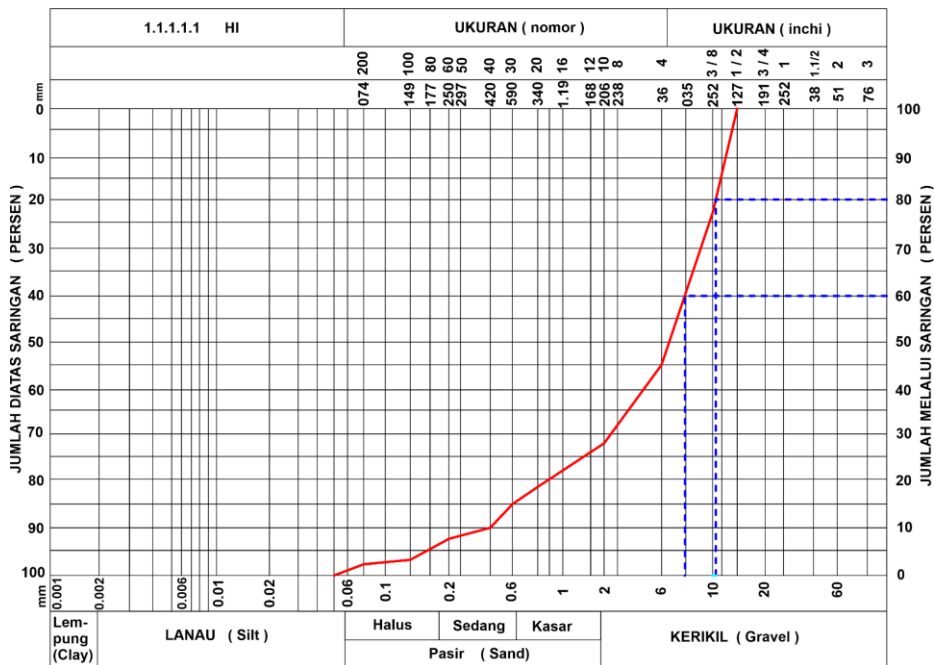
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Institut Teknologi Nasional Yogyakarta

Jl. Babarsari, Tambak Bayan, Caturtunggal, Kec. Depok, Kabupaten Sleman, Daerah Istimewa Yogyakarta 55281

No. Pengujian : Tengah 3
 Jenis Contoh : Kerikil 1-1 Crusher
 Jumlah Contoh :
 Diterima Tanggal :
 Diuji Tanggal : 20-05-2022
 Diuji Oleh : Haris Nur Eka Prasetya
 Diperiksa Oleh :

Pengujian dilaksanakan sesuai dengan metode uji SNI ASTM C136:2012

Saringan mm (inci)	Massa Tertahan		Persentase Kumulatif		Spesifikasi
	Gram (a)	Gram (b)	Tertahan (c)	Lolos (d)	
12.7 mm (No. 1/2)	0	0	0.000%	100.000%	
9,5 mm (No. 3/8)	385	385	22.515%	77.485%	
4,760 mm (No. 4)	555	940	54.971%	45.029%	
2,000 mm (No. 10)	265	1205	70.468%	29.532%	
0,841 mm (No. 20)	185	1390	81.287%	18.713%	
0,595 mm (No. 30)	60	1450	84.795%	15.205%	
0,420 mm (No. 40)	75	1525	89.181%	10.819%	
0.250 mm (No. 60)	60	1585	92.690%	7.310%	
0,149 mm (No. 100)	45	1630	95.322%	4.678%	
0,074 mm (No. 200)	50	1680	98.246%	1.754%	
pan	30	1710	100.000%	0.000%	
Modulus Kehalusan :					



D80	D60
10.00	7.81

7. Sampel Uji Kanan-Atas



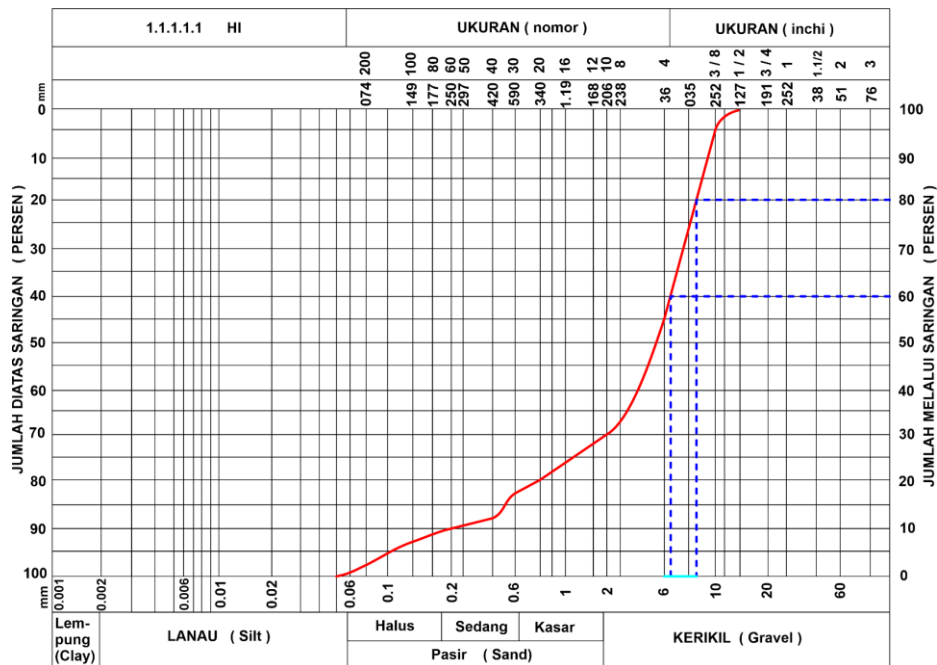
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Institut Teknologi Nasional Yogyakarta

Jl. Babarsari, Tambak Bayan, Caturtunggal, Kec. Depok, Kabupaten Sleman, Daerah Istimewa Yogyakarta 55281

No. Pengujian : Kanan 1
 Jenis Contoh : Kerikil 1-1 Crusher
 Jumlah Contoh :
 Diterima Tanggal :
 Diuji Tanggal : 20-05-2022
 Diuji Oleh : Haris Nur Eka Prasetya
 Diperiksa Oleh :

Pengujian dilaksanakan sesuai dengan metode uji SNI ASTM C136:2012

Saringan mm (inci)	Massa Tertahan		Persentase Kumulatif		Spesifikasi
	Gram (a)	Gram (b)	Tertahan (c)	Lolos (d)	
12.7 mm (No. 1/2)	0	0	0.000%	100.000%	
9,5 mm (No. 3/8)	95	95	4.348%	95.652%	
4,760 mm (No. 4)	870	965	44.165%	55.835%	
2,000 mm (No. 10)	530	1495	68.421%	31.579%	
0,841 mm (No. 20)	250	1745	79.863%	20.137%	
0,595 mm (No. 30)	65	1810	82.838%	17.162%	
0,420 mm (No. 40)	80	1890	86.499%	13.501%	
0.250 mm (No. 60)	70	1960	89.703%	10.297%	
0,149 mm (No. 100)	65	2025	92.677%	7.323%	
0,074 mm (No. 200)	95	2120	97.025%	2.975%	
pan	65	2185	100.000%	0.000%	
Modulus Kehalusan :					



D80	D60
8.52	6.51

8. Sampel Uji Kanan-Tengah



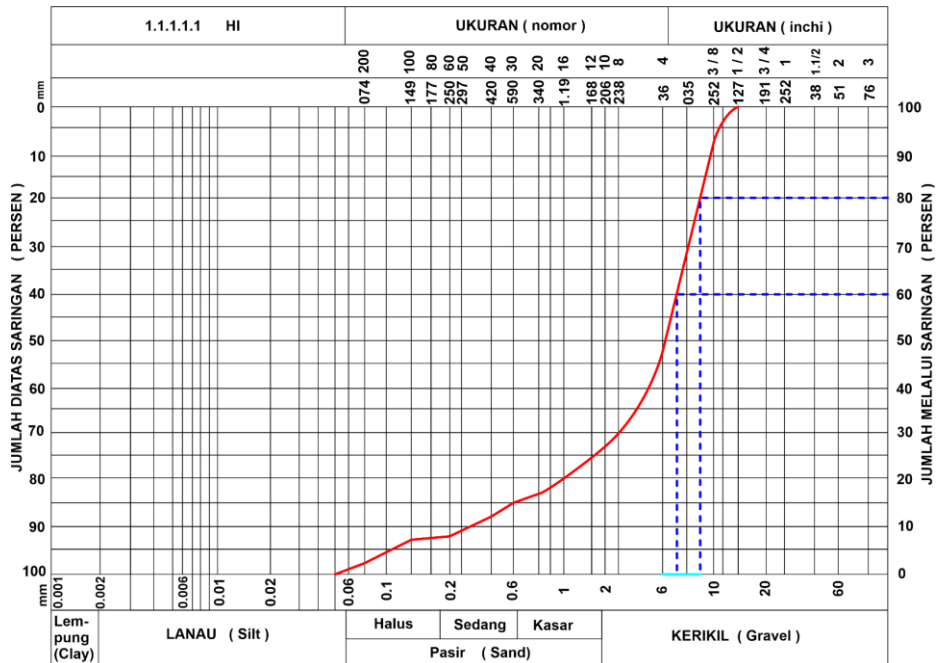
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Institut Teknologi Nasional Yogyakarta

Jl. Babarsari, Tambak Bayan, Caturtunggal, Kec. Depok, Kabupaten Sleman, Daerah Istimewa Yogyakarta 55281

No. Pengujian : Kanan 2
 Jenis Contoh : Kerikil 1-1 Crusher
 Jumlah Contoh :
 Diterima Tanggal :
 Diuji Tanggal : 20-05-2022
 Diuji Oleh : Haris Nur Eka Prasetya
 Diperiksa Oleh :

Pengujian dilaksanakan sesuai dengan metode uji SNI ASTM C136:2012

Saringan mm (inci)	Massa Tertahan		Persentase Kumulatif		Spesifikasi
	Gram (a)	Gram (b)	Tertahan (c)	Lolos (d)	
12.7 mm (No. 1/2)	0	0	0.000%	100.000%	
9,5 mm (No. 3/8)	120	120	6.138%	93.862%	
4,760 mm (No. 4)	880	1000	51.151%	48.849%	
2,000 mm (No. 10)	440	1440	73.657%	26.343%	
0,841 mm (No. 20)	175	1615	82.609%	17.391%	
0,595 mm (No. 30)	45	1660	84.910%	15.090%	
0,420 mm (No. 40)	55	1715	87.724%	12.276%	
0.250 mm (No. 60)	55	1770	90.537%	9.463%	
0,149 mm (No. 100)	50	1820	93.095%	6.905%	
0,074 mm (No. 200)	90	1910	97.698%	2.302%	
pan	45	1955	100.000%	0.000%	
Modulus Kehalusan :					



D80	D60
8.94	7.10

9. Sampel Uji Kanan-Bawah



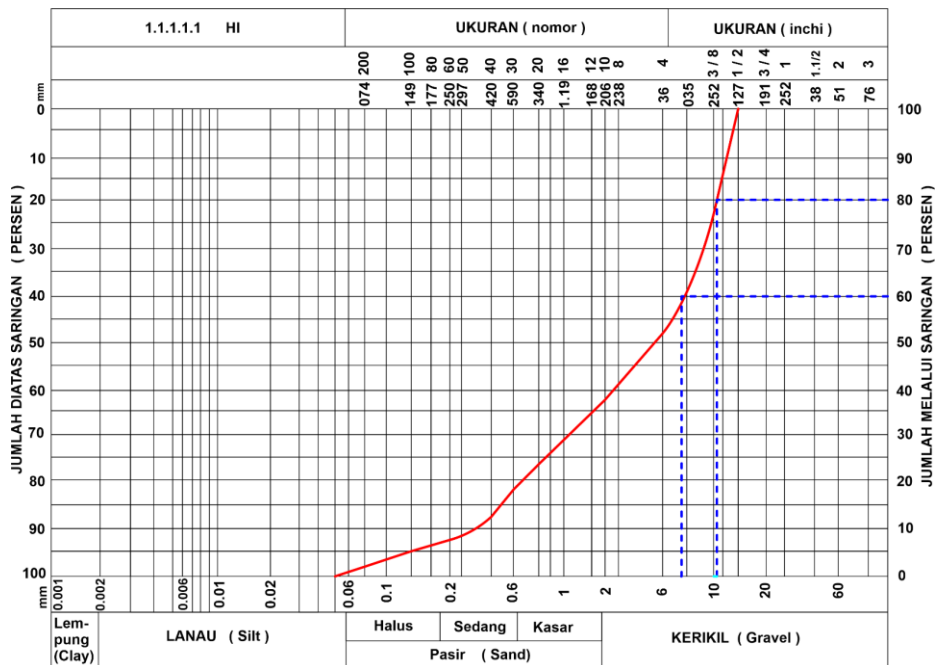
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Institut Teknologi Nasional Yogyakarta

Jl. Babarsari, Tambak Bayan, Caturtunggal, Kec. Depok, Kabupaten Sleman, Daerah Istimewa Yogyakarta 55281

No. Pengujian : Kanan 3
 Jenis Contoh : Kerikil 1-1 Crusher
 Jumlah Contoh :
 Diterima Tanggal :
 Diuji Tanggal : 20-05-2022
 Diuji Oleh : Haris Nur Eka Prasetya
 Diperiksa Oleh :

Pengujian dilaksanakan sesuai dengan metode uji SNI ASTM C136:2012

Saringan mm (inci)	Massa Tertahan		Persentase Kumulatif		Spesifikas
	Gram (a)	Gram (b)	Tertahan (c)	Lolos (d)	
12.7 mm (No. 1/2)	0	0	0.000%	100.000%	
9,5 mm (No. 3/8)	505	505	23.990%	76.010%	
4,760 mm (No. 4)	495	1000	47.506%	52.494%	
2,000 mm (No. 10)	305	1305	61.995%	38.005%	
0,841 mm (No. 20)	285	1590	75.534%	24.466%	
0,595 mm (No. 30)	100	1690	80.285%	19.715%	
0,420 mm (No. 40)	125	1815	86.223%	13.777%	
0.250 mm (No. 60)	110	1925	91.449%	8.551%	
0,149 mm (No. 100)	65	1990	94.537%	5.463%	
0,074 mm (No. 200)	75	2065	98.100%	1.900%	
pan	40	2105	100.000%	0.000%	
Modulus Kehalusan :					



D80	D60
10.00	7.49

Lampiran 2. Perhitungan Poligon Total Station

FORMULIR HITUNGAN KOORDINAT POLIGON TERTUTUP

Lokasi : PT. Aneka Dharma Persada
 Kecamatan : Sedayu
 Kab / Kota : Bantul
 Diukur Oleh : Haris Nur Eka Prasetya
 Dihitung oleh : Haris Nur Eka Prasetya

NO. TITIK	SUDUT UKURAN		RADIANS	KOREKSI	TERKOREKSI	AZIMUTH	AZIMUTH		JARAK	DSIN	K x	Kx TERKOREKSI	DCOS	Ky TERKOREKSI	KOORDINAT		ID
	0	1					0	1							''	'''	
BM2	144	17	24	144.29	0.0015	70.35188905	70	21	7	8.06000	7.593	2.710114	0.004019	2.714134	418437.679	9136102.8090	BM2
BM1	55	17	2.05E-10	55.2833333	0.0015	-164.930	-164	-55	-48	22.73400	-5.905	-21.9521	0.011337	-21.9408	418445.272	9136105.523	BM1
BM4	58	43	56	58.7322222	0.0015	-43.661	-43	-39	-38	12.57700	-8.680	9.098729	0.006272	9.105001	418439.367	9136083.5823	BM4
BM3	101	42	2	101.700556	0.0015	34.640	34	38	25	12.29500	6.992	10.11554	0.006131	10.12167	418430.687	9136092.6873	BM3
Jumlah (Σ)	358	119	82		360.000					55.666	0.014	-0.028	0.028	0.000	418437.679	9136102.8090	BM 1
	360.000	0	22.0		0.006												

Azimuth Awal : 250
 n Sudut : 4
 Σ Sudut Ukuran : 360
 Σ Sudut Yg Benar : 360
 Σ Koreksi Sudut : 0
 F_s : -1.079.99
 Σ Kx : =
 Σ Ky : =
 Σ Jarak : =
 Ketelitian Linier Jarak : 1:

250 21 7
 0 0 22.0
 0 0 0.0
 22.0 0.00611111 < toleransi sudut maksimal 31.62278
 koreksi pertiti 0.00152778
 FI = 0.0312
 FI = -0.028
 FI = 55.666
 1: 1781

Lampiran 3. Report Pengukuran UAV Agisoft

Agisoft Metashape

Processing Report

03 July 2022



Survey Data

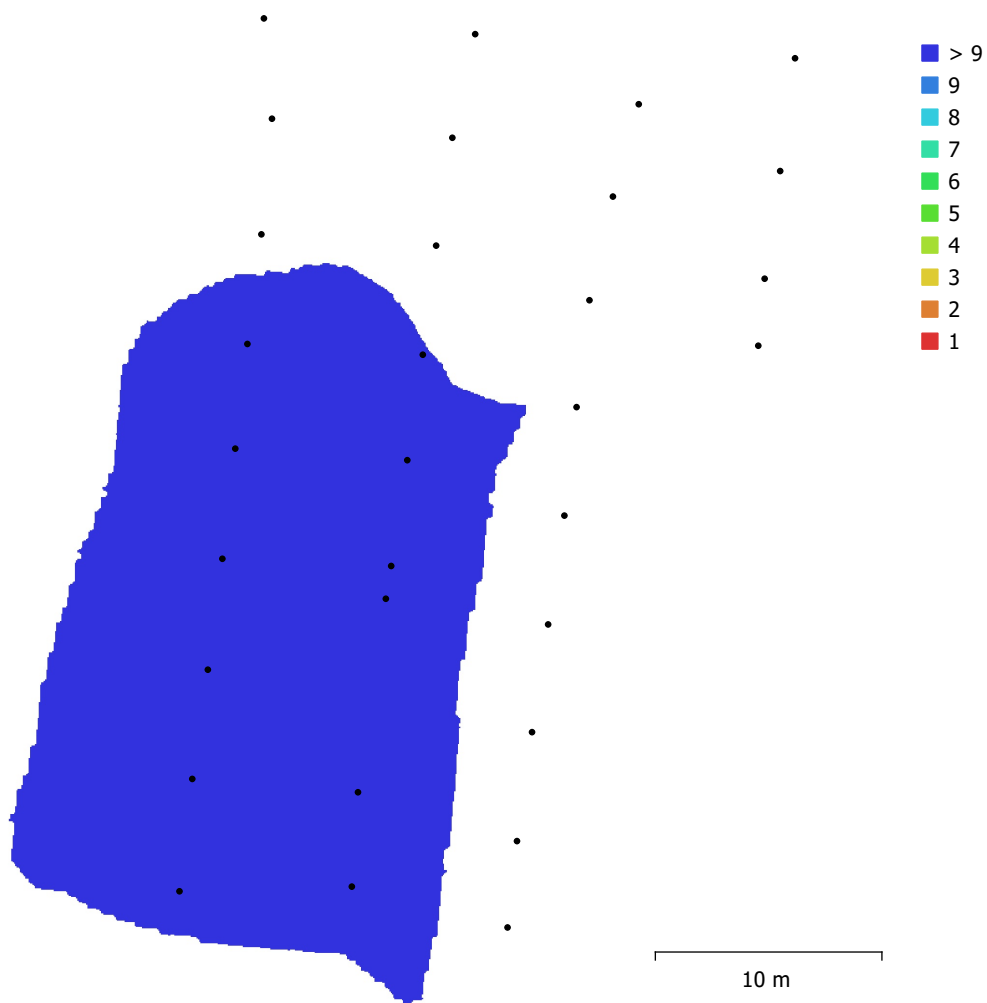


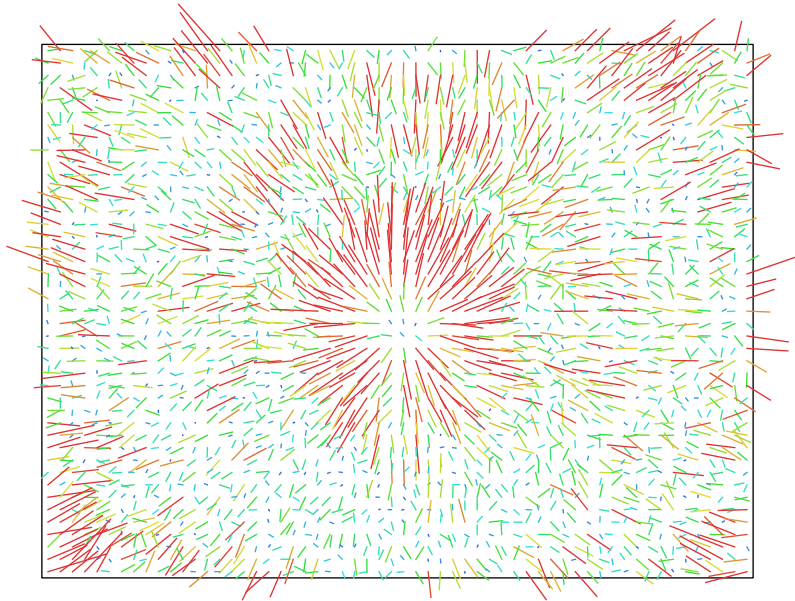
Fig. 1. Camera locations and image overlap.

Number of images:	31	Camera stations:	31
Flying altitude:	51.4 m	Tie points:	20,929
Ground resolution:	1.38 cm/pix	Projections:	163,283
Coverage area:	501 m ²	Reprojection error:	0.884 pix

Camera Model	Resolution	Focal Length	Pixel Size	Precalibrated
FC6310 (8.8mm)	4864 x 3648	8.8 mm	2.61 x 2.61 μ m	No

Table 1. Cameras.

Camera Calibration



1 pix

Fig. 2. Image residuals for FC6310 (8.8mm).

FC6310 (8.8mm)

31 images

Type
Frame

Resolution
4864 x 3648

Focal Length
8.8 mm

Pixel Size
2.61 x 2.61 μm

	Value	Error	Cx	Cy	K1	P1	P2
F	3372.58						
Cx	2.94278	0.089	1.00	0.07	-0.01	0.55	0.05
Cy	16.9609	0.077		1.00	-0.02	0.09	0.40
K1	-0.0033173	0.00013			1.00	-0.12	0.58
P1	-0.000941619	4.4e-06				1.00	-0.01
P2	0.00158962	4.1e-06					1.00

Table 2. Calibration coefficients and correlation matrix.

Camera Locations

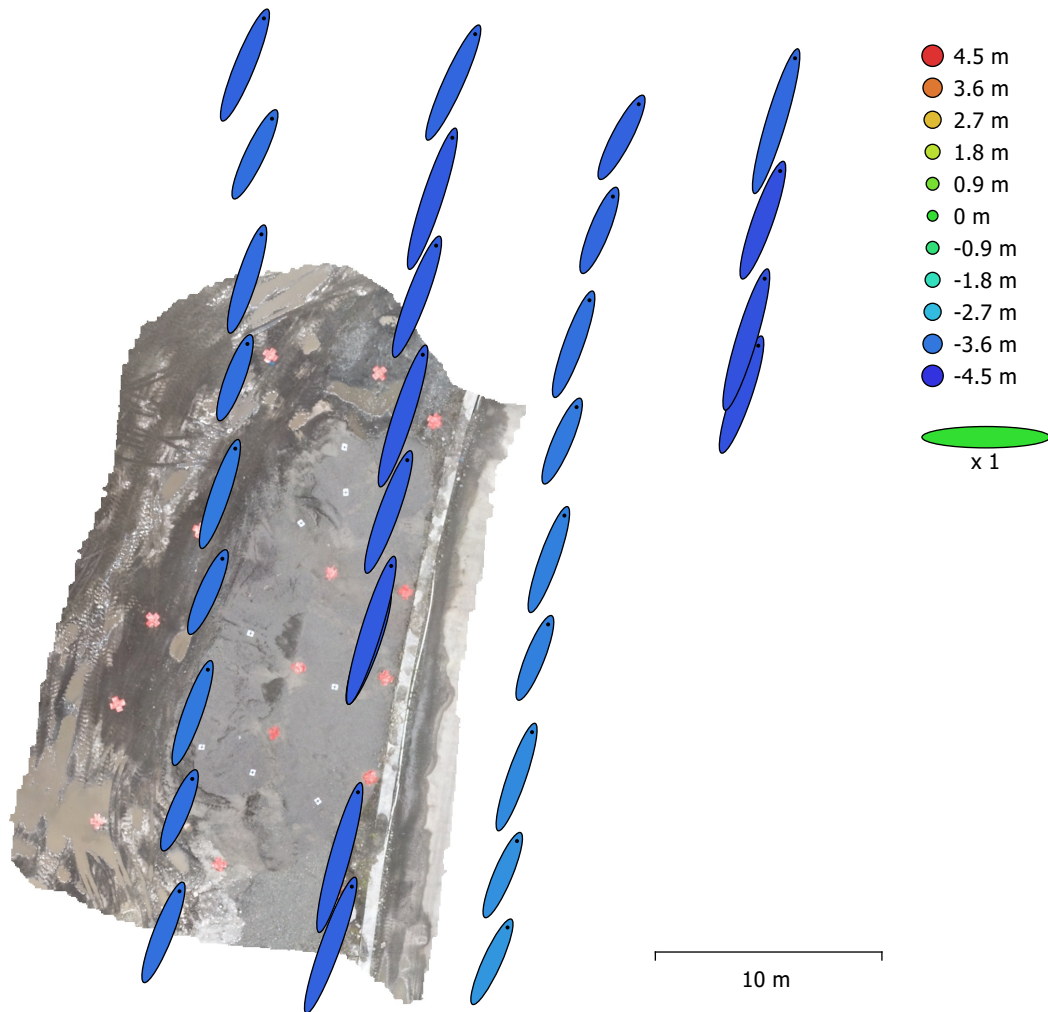


Fig. 3. Camera locations and error estimates.

Z error is represented by ellipse color. X,Y errors are represented by ellipse shape.
 Estimated camera locations are marked with a black dot.

X error (m)	Y error (m)	Z error (m)	XY error (m)	Total error (m)
1.49359	4.15698	3.75852	4.41716	5.79981

Table 3. Average camera location error.
 X - Longitude, Y - Latitude, Z - Altitude.

Ground Control Points

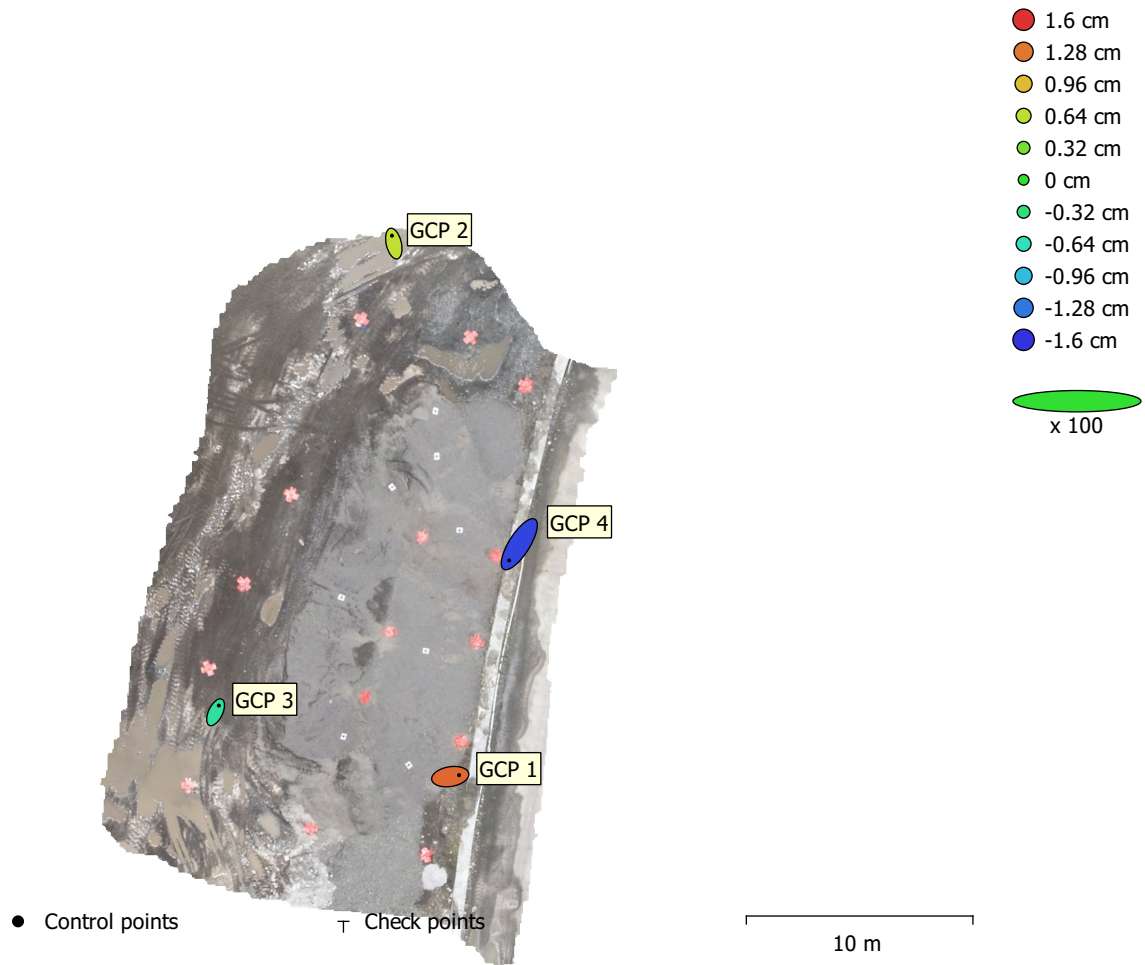


Fig. 4. GCP locations and error estimates.

Z error is represented by ellipse color. X,Y errors are represented by ellipse shape.

Estimated GCP locations are marked with a dot or crossing.

Count	X error (cm)	Y error (cm)	Z error (cm)	XY error (cm)	Total (cm)
4	0.616511	0.851261	1.09936	1.05106	1.52096

Table 4. Control points RMSE.

X - Longitude, Y - Latitude, Z - Altitude.

Label	X error (cm)	Y error (cm)	Z error (cm)	Total (cm)	Image (pix)
GCP 2	-0.164338	0.6988	0.667938	0.980546	1.236 (26)
GCP 3	0.286965	0.596548	-0.503572	0.831747	1.001 (23)
GCP 4	-0.89954	-1.4275	-1.51628	2.26848	1.545 (28)
GCP 1	0.775768	0.129011	1.35482	1.56652	1.177 (22)
Total	0.616511	0.851261	1.09936	1.52096	1.272

Table 5. Control points.
X - Longitude, Y - Latitude, Z - Altitude.

Digital Elevation Model

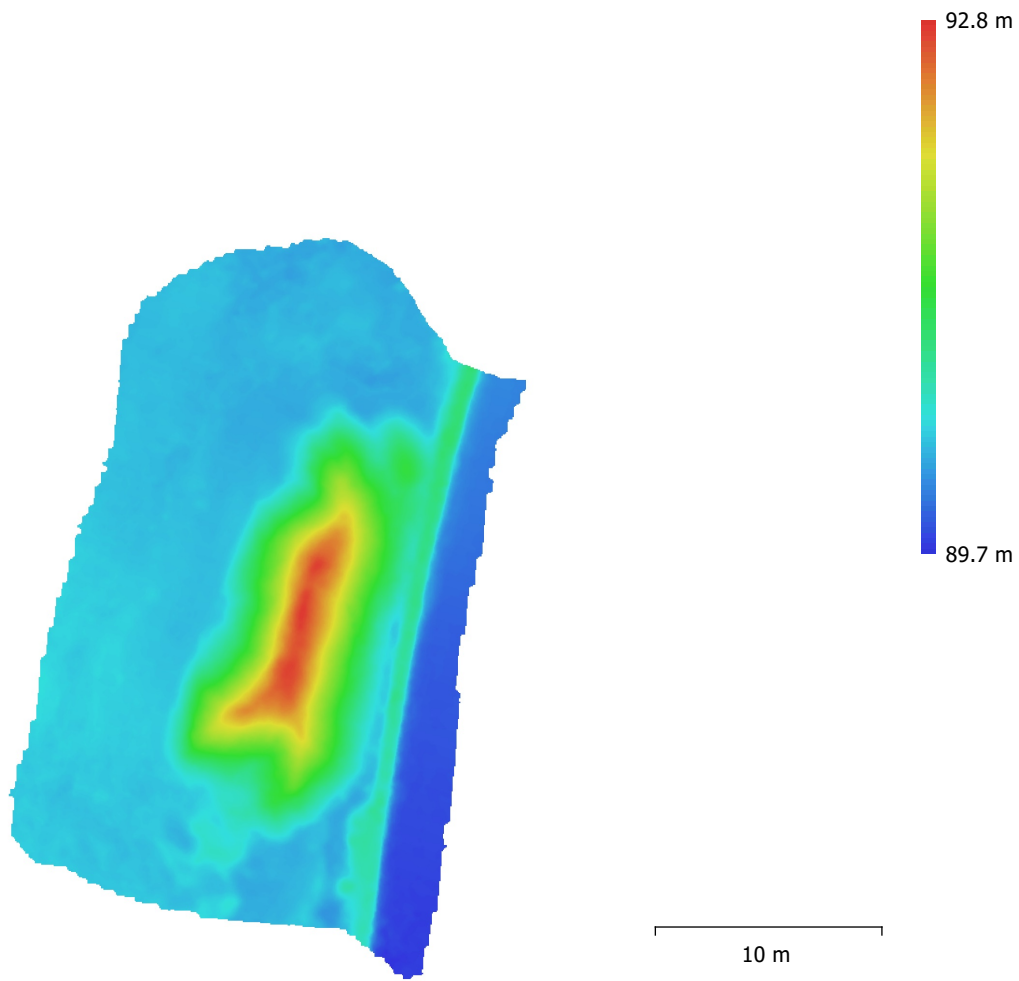


Fig. 5. Reconstructed digital elevation model.

Resolution: 5.48 cm/pix
Point density: 333 points/m²

Processing Parameters

General

Cameras	31
Aligned cameras	31
Markers	4
Coordinate system	WGS 84 (EPSG::4326)
Rotation angles	Yaw, Pitch, Roll

Point Cloud

Points	20,929 of 23,264
RMS reprojection error	0.134722 (0.884277 pix)
Max reprojection error	0.405055 (18.68 pix)
Mean key point size	6.34218 pix
Point colors	3 bands, uint8
Key points	No
Average tie point multiplicity	8.38016

Alignment parameters

Accuracy	Medium
Generic preselection	Yes
Reference preselection	Yes
Key point limit	60,000
Tie point limit	6,000
Adaptive camera model fitting	Yes
Matching time	3 minutes 37 seconds
Alignment time	24 seconds
File size	3.52 MB

Depth Maps

Count	31
-------	----

Depth maps generation parameters

Quality	Medium
Filtering mode	Mild
Processing time	4 hours 47 minutes
File size	47.97 MB

Dense Point Cloud

Points	192,854
Point colors	3 bands, uint8

Depth maps generation parameters

Quality	Medium
Filtering mode	Aggressive
Processing time	2 hours 39 minutes

Dense cloud generation parameters

Processing time	1 hours 13 minutes
File size	47.77 MB

Model

Faces	95,784
Vertices	48,189
Vertex colors	3 bands, uint8

Depth maps generation parameters

Quality	Medium
---------	--------

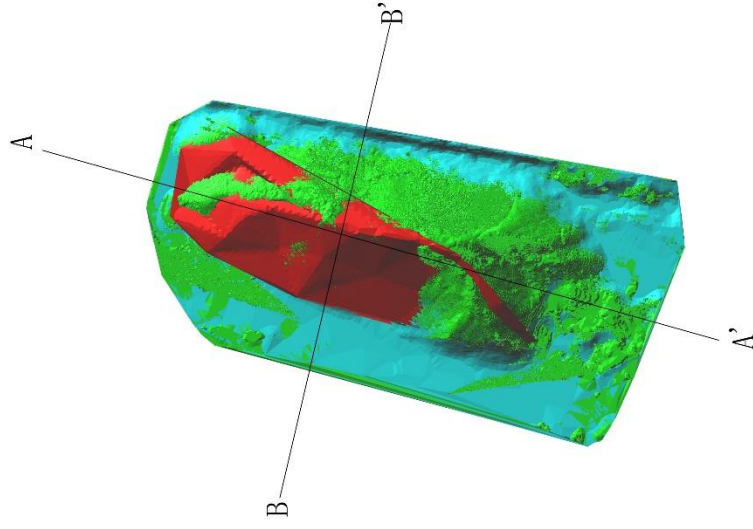
Reconstruction parameters

Surface type	Arbitrary
Source data	Depth maps

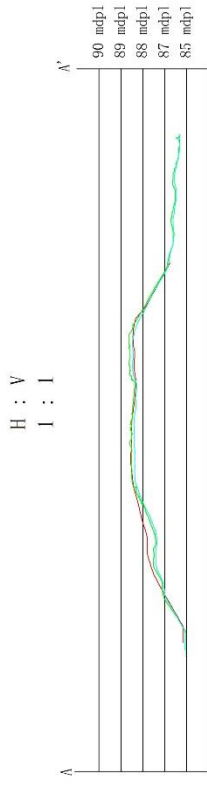
Processing time	14 minutes 18 seconds
File size	2.20 MB
DEM	
Size	2,842 x 2,860
Coordinate system	WGS 84 (EPSG::4326)
Reconstruction parameters	
Source data	Dense cloud
Interpolation	Disabled
Processing time	2 seconds
File size	1.02 MB
Orthomosaic	
Size	1,672 x 2,392
Coordinate system	WGS 84 (EPSG::4326)
Colors	3 bands, uint8
Reconstruction parameters	
Blending mode	Mosaic
Surface	DEM
Enable hole filling	Yes
Processing time	24 seconds
File size	67.86 MB
System	
Software name	Agisoft Metashape Professional
Software version	1.7.3 build 12473
OS	Windows 64 bit
RAM	7.75 GB
CPU	Intel(R) Core(TM) i3-1005G1 CPU @ 1.20GHz
GPU(s)	Intel(R) UHD Graphics

Lampiran 4. Overlay Data TS, TLS, dan UAV

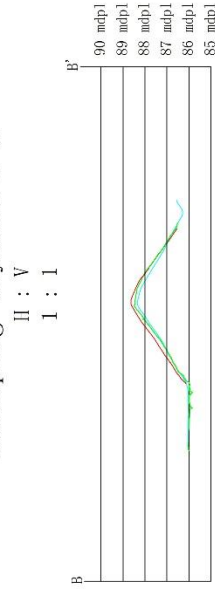
OVERLAY DATA TS, TLS, DAN UAV PADA MODEL STOCKPILE PT. ADP



Penampang sayatan A-A'



Penampang sayatan B-B'



Keterangan :

- Solid Model TS
- Solid Model TLS
- Solid Model UAV

Lampiran 5. Perhitungan Statistik dan T Test dengan SPSS

```

EXAMINE VARIABLES=Hasil BY Instrumen
/PLOT BOXPLOT STEMLEAF HISTOGRAM NPLOT
/COMPARE GROUPS
/STATISTICS DESCRIPTIVES
/CINTERVAL 95
/MISSING LISTWISE
/NOTOTAL.

```

Explore

Notes

Output Created	16-JUN-2022 15:11:04	
Comments		
Input	Data	D:\00. Skripsi Haris\Data AoR\Cek AoR.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	18
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.
Syntax	EXAMINE VARIABLES=Hasil BY Instrumen /PLOT BOXPLOT STEMLEAF HISTOGRAM NPLOT /COMPARE GROUPS /STATISTICS DESCRIPTIVES /CINTERVAL 95 /MISSING LISTWISE /NOTOTAL.	
Resources	Processor Time	00:00:05.95
	Elapsed Time	00:00:02.95

Instrumen

Case Processing Summary

Instrumen		Cases					
		Valid		Missing		Total	
		N	Percent	N	Percent	N	Percent
AoR	TLS	6	100.0%	0	0.0%	6	100.0%
	Drone	6	100.0%	0	0.0%	6	100.0%
	Aktual TS	6	100.0%	0	0.0%	6	100.0%

Descriptives

Instrumen				Statistic	Std. Error
AoR	TLS	Mean		30.7817	0.87559
		95% Confidence Interval for Mean	Lower Bound	28.5309	
			Upper Bound	33.0324	
		5% Trimmed Mean		30.7563	
		Median		30.6350	
		Variance		4.600	
		Std. Deviation		2.14476	
		Minimum		28.13	
		Maximum		33.89	
		Range		5.76	
		Interquartile Range		3.99	
		Skewness		0.297	0.845
		Kurtosis		-0.960	1.741
	Drone	Mean		31.1850	0.94678
		95% Confidence Interval for Mean	Lower Bound	28.7512	
			Upper Bound	33.6188	
		5% Trimmed Mean		31.2172	
		Median		31.5150	
		Variance		5.378	
		Std. Deviation		2.31913	
		Minimum		28.01	
		Maximum		33.78	
		Range		5.77	
		Interquartile Range		4.60	
		Skewness		-0.350	0.845
		Kurtosis		-1.713	1.741
	Aktual TS	Mean		30.5000	0.70711
		95% Confidence Interval for Mean	Lower Bound	28.6823	
			Upper Bound	32.3177	
		5% Trimmed Mean		30.5606	
		Median		30.9800	
		Variance		3.000	
		Std. Deviation		1.73206	
		Minimum		27.75	
		Maximum		32.16	
		Range		4.41	
Interquartile Range		3.14			
Skewness		-0.837	0.845		
Kurtosis		-0.602	1.741		

Tests of Normality

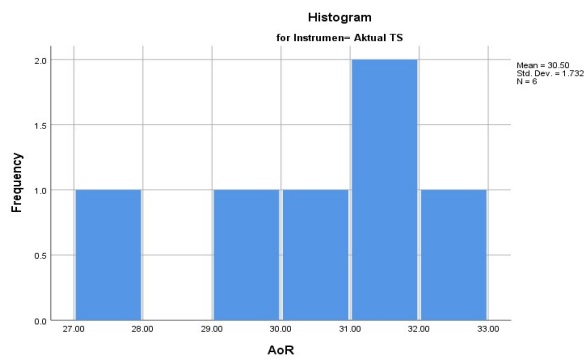
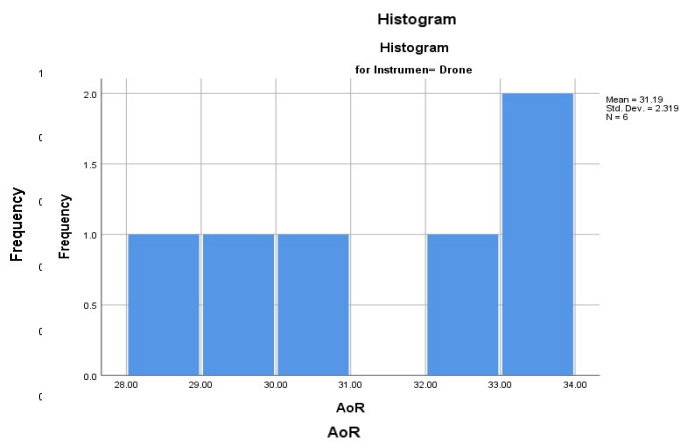
Instrumen		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
AoR	TLS	0.130	6	.200*	0.978	6	0.943
	Drone	0.172	6	.200*	0.936	6	0.625
	Aktual TS	0.218	6	.200*	0.907	6	0.415

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

AoR

Histograms



Stem-and-Leaf Plots

AoR Stem-and-Leaf Plot for
Instrumen= TLS

Frequency	Stem & Leaf
2.00	2 . 89
4.00	3 . 0123

Stem width: 10.00
Each leaf: 1 case(s)

AoR Stem-and-Leaf Plot for
Instrumen= Drone

Frequency	Stem & Leaf
2.00	2 . 89
4.00	3 . 0233

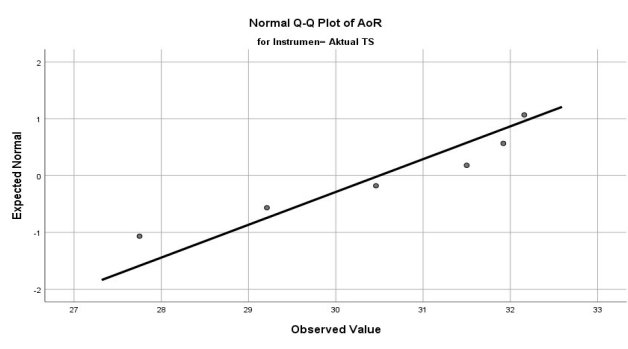
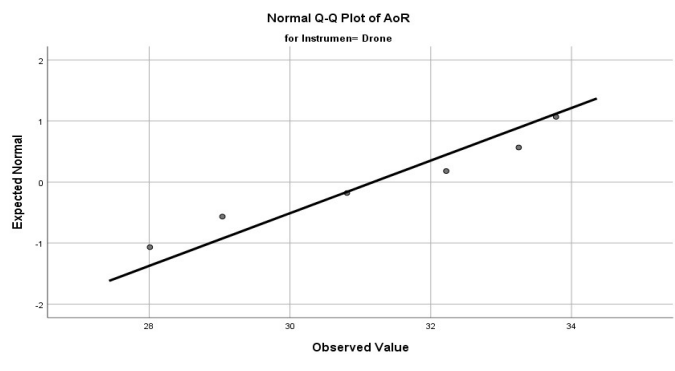
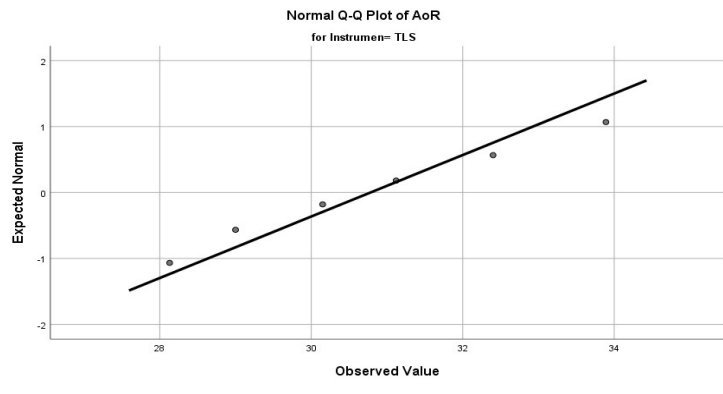
Stem width: 10.00
Each leaf: 1 case(s)

AoR Stem-and-Leaf Plot for
Instrumen= Aktual TS

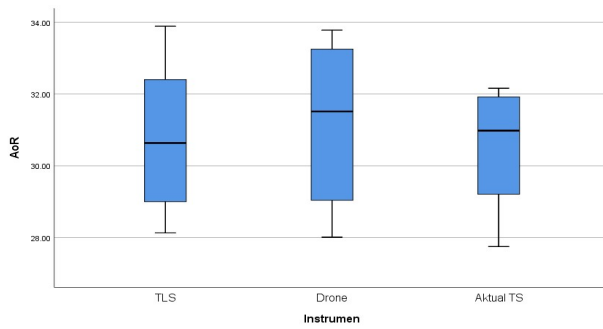
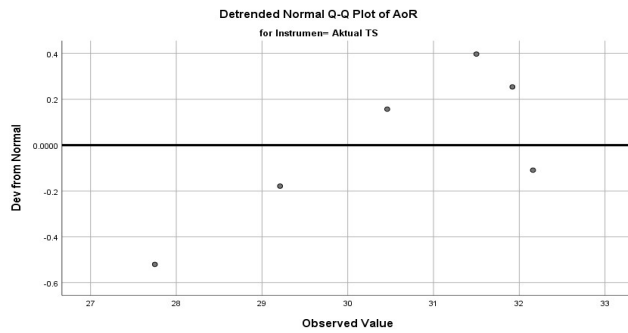
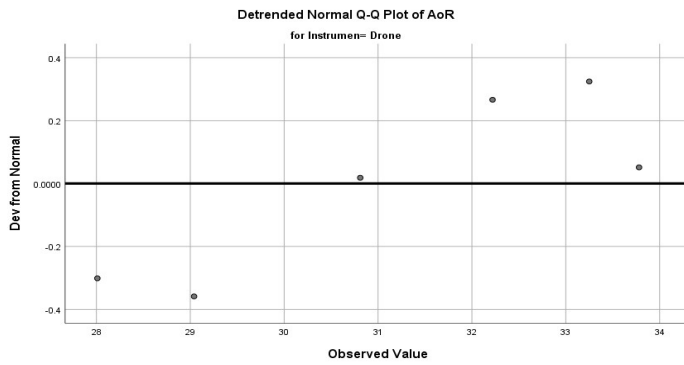
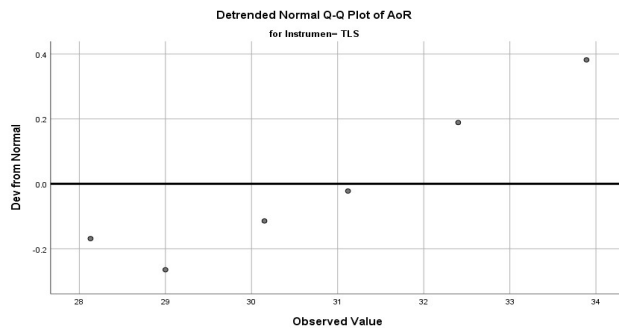
Frequency	Stem & Leaf
2.00	2 . 79
4.00	3 . 0112

Stem width: 10.00
Each leaf: 1 case(s)

Normal Q-Q Plots



Detrended Normal Q-Q Plots




```

NEW FILE.
DATASET NAME DataSet2 WINDOW=FRONT.
DATASET ACTIVATE DataSet1.
DATASET CLOSE DataSet2.
NEW FILE.
DATASET NAME DataSet3 WINDOW=FRONT.
DATASET ACTIVATE DataSet1.
DATASET CLOSE DataSet3.

SAVE OUTFILE='D:\00. Skripsi Haris\Data AoR\Cek T Test AoR.sav'
/COMPRESSED.
T-TEST PAIRS=Aktual_TS Aktual_TS WITH TLS Drone (PAIRED)
/CRITERIA=CI(.9500)
/MISSING=ANALYSIS.

```

T-Test

Notes

Output Created	16-JUN-2022 23:31:23	
Comments		
Input	Data	D:\00. Skripsi Haris\Data AoR\Cek T Test AoR.sav
	Active Dataset	DataSet1
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	6
Missing Value Handling	Definition of Missing	User defined missing values are treated as missing.
	Cases Used	Statistics for each analysis are based on the cases with no missing or out-of-range data for any variable in the analysis.
Syntax	T-TEST PAIRS=Aktual_TS Aktual_TS WITH TLS Drone (PAIRED) /CRITERIA=CI(.9500) /MISSING=ANALYSIS.	
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.01

[DataSet1] D:\00. Skripsi Haris\Data AoR\Cek T Test AoR.sav

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Aktual_TS	30.5000	6	1.73206	0.70711
	TLS	30.78	6	2.145	0.876
Pair 2	Aktual_TS	30.5000	6	1.73206	0.70711
	Drone	31.1850	6	2.31913	0.94678

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	Aktual_TS & TLS	6	0.873	0.023
Pair 2	Aktual_TS & Drone	6	0.869	0.025

Paired Samples Test

		Paired Differences							
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference		t	df	Sig. (2-tailed)
					Lower	Upper			
Pair 1	Aktual_TS - TLS	-0.28167	1.05651	0.43132	-1.39041	0.82707	-0.653	5	0.543
Pair 2	Aktual_TS - Drone	-0.68500	1.18277	0.48286	-1.92624	0.55624	-1.419	5	0.215

DATASET ACTIVATE DataSet1.

```

SAVE OUTFILE='D:\00. Skripsi Haris\Data AoR\Cek T Test AoR.sav'
/COMPRESSED.

```

**Lampiran 6. Peta Orthophoto
Aktual Stockpile**



Skala 1:200


Datum : WGS 1984 Web Mercator
 Proyeksi : Universal Transverse Mercator, Zone 48 S
 Sistem Grid : Measure

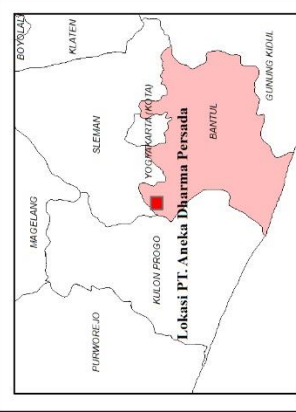
Judul Peta :

Peta Orthophoto Aktual Stockpile ADP

Legenda :



Indeks Peta :



Data Source/Notes :

Date : 26/11/2021

Drawn By :

Approved By :

Map No :
 Size : A4



9136100

9136080

9136060

418440

418420

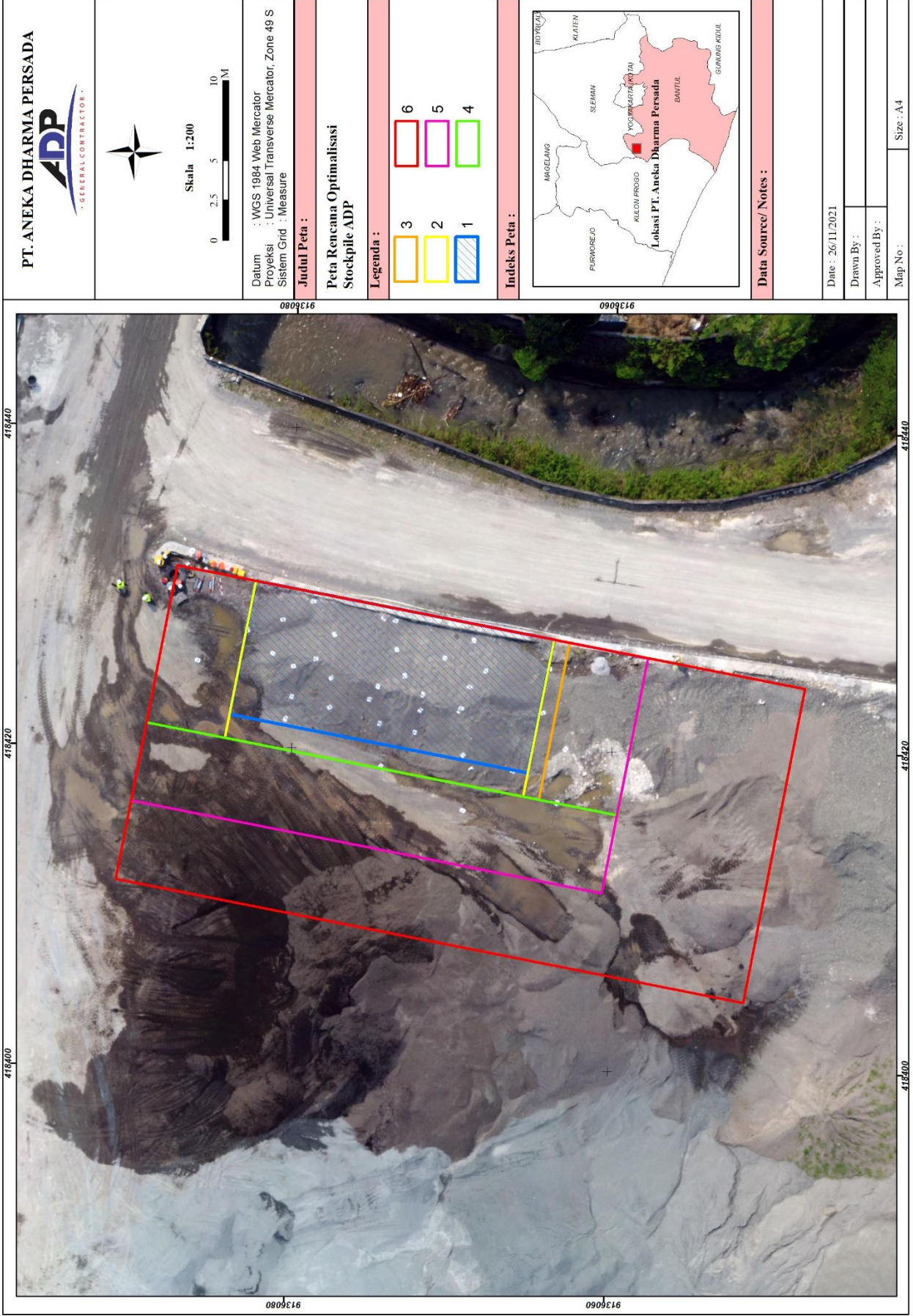
418400

418440



418420

418400

Lampiran 7. Peta Rencana Optimalisasi Stockpile ADP









PT. ANEKA DHARMA PERSADA
ADP
 GENERAL CONTRACTOR


 Skala 1:200


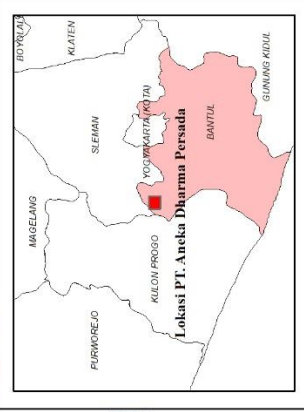
Datum : WGS 1984 Web Mercator
 Proyeksi : Universal Transverse Mercator, Zone 49 S
 Sistem Grid : Measure

Judul Peta :
**Peta Rencana Optimalisasi
 Stockpile ADP**

Legenda :

	3		6
	2		5
	1		4

Indeks Peta :



Data Source/ Notes :

Date : 26/11/2021
 Drawn By :
 Approved By :
 Map No. : Size :A4

418440 418420 418400 9136060 9136080 9136060 418440 418420 418400

Lampiran 8. Dokumentasi Lapangan



