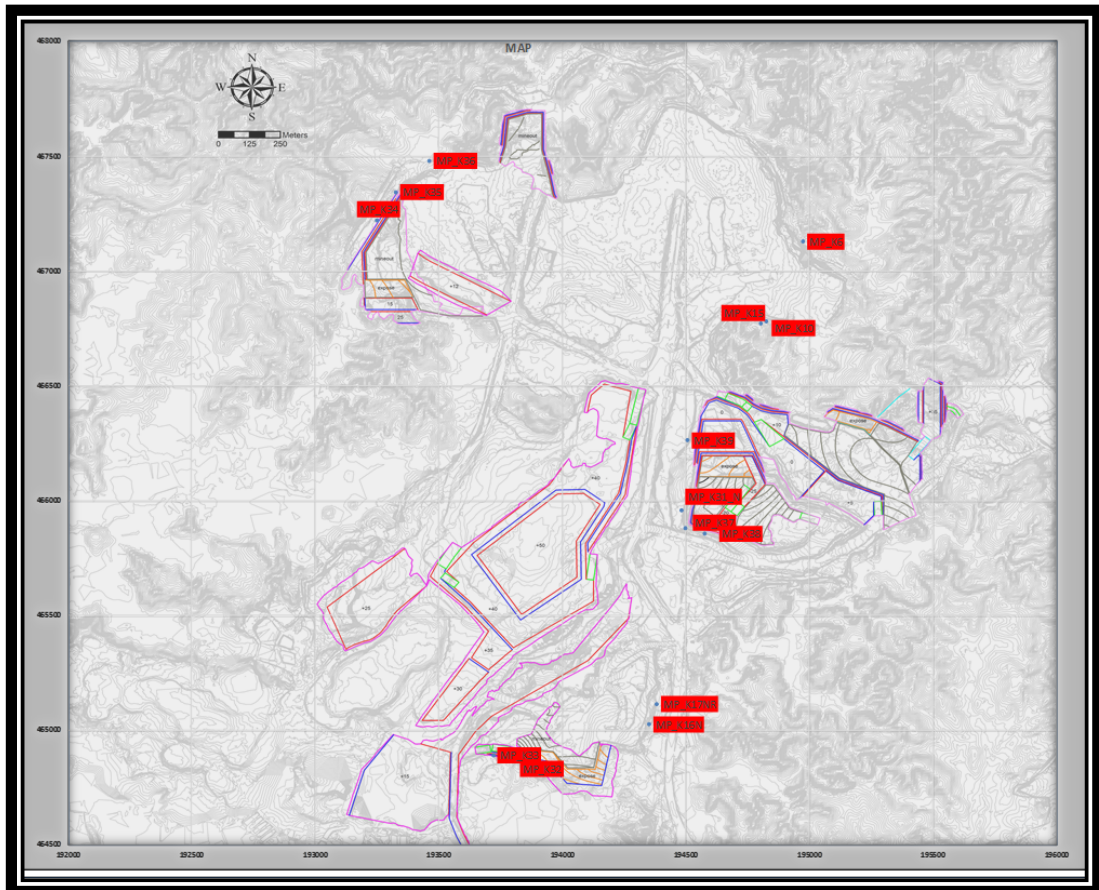


LAMPIRAN A

MONITORING PERGESERAN LERENG

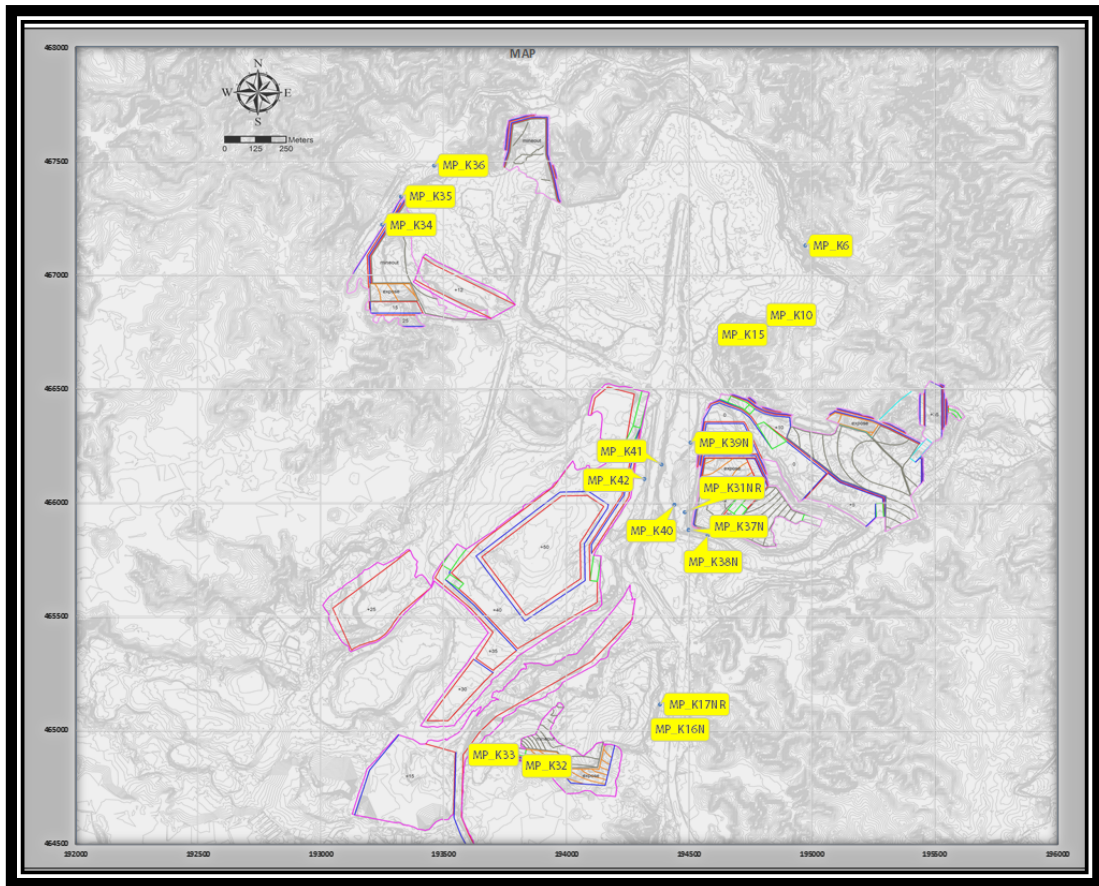
Tabel A.1. Monitoring Pergeseran Lereng 15 Maret 2021

SLOPE MONITORING PIT B														
Monitoring	Prev Obs	Today Obs	Coordinate		Elevation	Total Movement (cm)	Average Movement /day (cm)	Last Movement (cm)	Location	STATUS	DIRECTION	Equipment Error (cm)	Initial Obs	Remark
			X	Y										
MP K6	15-Mar-21	16-Mar-21	184974.759	467117.998	44.292	6.2	0.1	1.2	Pit Utara-Timur	Stabil	SouthWest	3	1-Jan-21	
MP K10	15-Mar-21	16-Mar-21	184826.440	466780.702	34.680	5.2	0.1	5.5	Pit Utara-Timur	Tidak Stabil	NorthEast	3	1-Jan-21	
MP K15	15-Mar-21	16-Mar-21	184805.539	466771.700	36.804	8.0	0.1	5.6	Pit Utara-Timur	Tidak Stabil	NorthEast	3	1-Jan-21	
MP K16N	15-Mar-21	16-Mar-21	184351.869	465024.033	10.851	2.2	0.1	3.3	Pit Selatan	Stabil	SouthEast	3	13-Feb-21	Patok Pengaman K16
MP K20NW	15-Mar-21	16-Mar-21	184263.245	465114.359	11.195	6.9	0.2	3.6	Pit Selatan	Stabil	SouthWest	3	13-Feb-21	Patok Pengaman K16
MP K21A	15-Mar-21	16-Mar-21	184462.608	465957.338	5.978	2.2	0.7	2.6	Final Wall barat Saam C	Stabil	NorthEast	3	14-Mar-21	Patok Pengaman K21
MP K32	15-Mar-21	16-Mar-21	183835.623	464874.129	10.833	5.1	1.0	1.7	Side Wall Selatan	Stabil	SouthWest	3	14-Mar-21	
MP K35	15-Mar-21	16-Mar-21	183722.279	464888.789	10.155	5.1	0.2	2.4	Side Wall Selatan	Stabil	SouthEast	3	15-Feb-21	
MP K34	15-Mar-21	16-Mar-21	183251.282	467220.457	26.873	11.3	0.8	12.3	Final Wall Utara - Barat	Tidak Stabil	SouthWest	3	2-Mar-21	
MP K35	15-Mar-21	16-Mar-21	183248.889	467344.215	27.538	6.1	0.4	7.8	Final Wall Utara - Barat	Tidak Stabil	SouthWest	3	2-Mar-21	
MP K36	15-Mar-21	16-Mar-21	183463.131	467480.354	21.577	7.2	0.5	8.3	Final Wall Utara - Barat	Tidak Stabil	SouthWest	3	2-Mar-21	
MP K37	15-Mar-21	16-Mar-21	184496.348	465870.026	3.283	2.9	0.8	3.1	Bench Rd O - Caturanga	Stabil	NorthWest	3	14-Mar-21	
MP K38	15-Mar-21	16-Mar-21	184577.315	465893.142	2.374	3.9	1.3	3.0	Bench Rd O - Caturanga	Stabil	NorthWest	3	14-Mar-21	
MP K39	15-Mar-21	16-Mar-21	184507.404	466262.363	14.086	2.4	0.8	2.8	Final Wall barat Saam C	Stabil	NorthWest	3	14-Mar-21	
												Indep Parameter Movement		
												0 - 5 cm	Stabil	Amat
												5 - 10 cm	Tidak Stabil	Waspada
												> 10 cm	Tidak Stabil	Bahaya



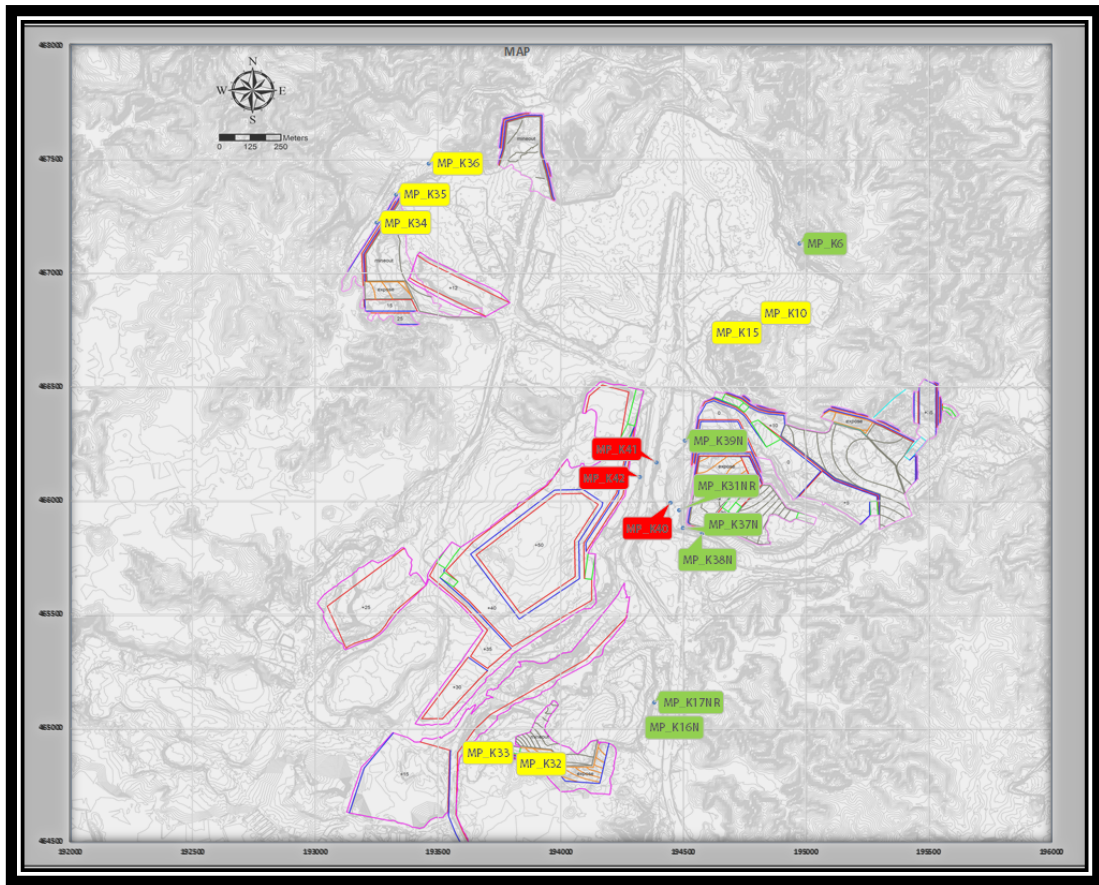
Tabel A.2. Monitoring Pergeseran Lereng 16 Maret 2021

SLOPE MONITORING PIT B														
Monitoring	Prev Obs	Today Obs	Coordinate		Elevation	Total Movement (cm)	Average Movement /Day (cm)	Last Movement (cm)	Location	STATUS	DIRECTION	Equipment Error (cm)	Initial Obs	Remark
			X	Y										
MP K8	16-Mar-21	17-Mar-21	194974.770	467128.013	44.280	6.4	0.1	1.9	Pit Utara - Timur	Stabil	SouthWest	3	1-Jan-21	
MP K10	16-Mar-21	17-Mar-21	194838.391	466786.872	34.733	6.0	0.1	7.0	Pit Utara - Timur	Total Stabil	SouthWest	3	1-Jan-21	
MP K18	16-Mar-21	17-Mar-21	194805.472	466771.658	35.779	5.9	0.1	6.3	Pit Utara - Timur	Tidak Stabil	SouthWest	3	1-Jan-21	
MP K16N	16-Mar-21	17-Mar-21	194351.873	465024.077	10.899	4.2	0.1	6.2	Pit Selatan	Tidak Stabil	NorthEast	3	13-Feb-21	Peta Pengganti K16
MP K37NR	16-Mar-21	17-Mar-21	194383.243	465112.216	11.209	2.9	0.1	5.8	Pit Selatan	Tidak Stabil	NorthWest	3	13-Feb-21	Peta Pengganti K37N
MP K31NR	16-Mar-21	17-Mar-21	194432.602	465957.268	5.902	4.3	2.1	2.2	Final Wall Bar at Seismic C	Stabil	NorthEast	3	16-Mar-21	Peta Pengganti K31N
MP K32	16-Mar-21	17-Mar-21	193835.441	464871.130	10.823	3.5	0.9	2.0	Side Wall Selatan	Stabil	East	3	14-Mar-21	
MP K33	16-Mar-21	17-Mar-21	193722.262	464888.793	19.151	3.5	0.1	1.9	Side Wall Selatan	Stabil	SouthEast	3	13-Feb-21	
MP K34	16-Mar-21	17-Mar-21	193251.258	467220.539	25.873	3.4	0.2	7.0	Final Wall Utara - Barat	Total Stabil	SouthEast	3	2-Mar-21	
MP K35	16-Mar-21	17-Mar-21	193228.510	467344.281	27.532	0.9	0.1	7.0	Final Wall Utara - Barat	Tidak Stabil	SouthWest	3	2-Mar-21	
MP K36	16-Mar-21	17-Mar-21	193483.160	467480.397	21.567	3.0	0.2	4.5	Final Wall Utara - Barat	Stabil	SouthWest	3	2-Mar-21	
MP K37N	16-Mar-21	17-Mar-21	194498.293	465879.043	3.307	1.7	0.9	1.8	Bench R.O - Catalunya	Stabil	NorthEast	3	16-Mar-21	Peta Pengganti K37
MP K38N	16-Mar-21	17-Mar-21	194377.807	464934.160	2.387	0.5	0.5	0.9	Bench R.O - Catalunya	Stabil	NorthEast	3	16-Mar-21	Peta Pengganti K38
MP K39N	16-Mar-21	17-Mar-21	194507.439	465262.443	14.103	8.3	4.2	1.2	Final Wall Bar at Seismic C	Stabil	NorthEast	3	16-Mar-21	Peta Pengganti K39
MP K40	16-Mar-21	17-Mar-21	194442.247	465989.478	11.978	869.2	434.6	869.2	Final Wall Bar at Seismic C	Slip at Top of Wall	NorthEast	3	16-Mar-21	
MP K41	16-Mar-21	17-Mar-21	194389.237	465186.758	23.942	85.3	172.7	85.3	Final Wall Bar at Seismic C	Slip at Top of Wall	SouthEast	3	16-Mar-21	
MP K42	16-Mar-21	17-Mar-21	194318.411	465104.787	29.370	636.2	316.1	636.2	Final Wall Bar at Seismic C	Slip at Top of Wall	NorthEast	3	16-Mar-21	
Index Parameter Movement														
dy, dx	0 - 5 cm	Stabil			Aman									
	5 - 10 cm	Total Stabil			Waspada									
	> 10 cm	Slip at Top of Wall			Danger									



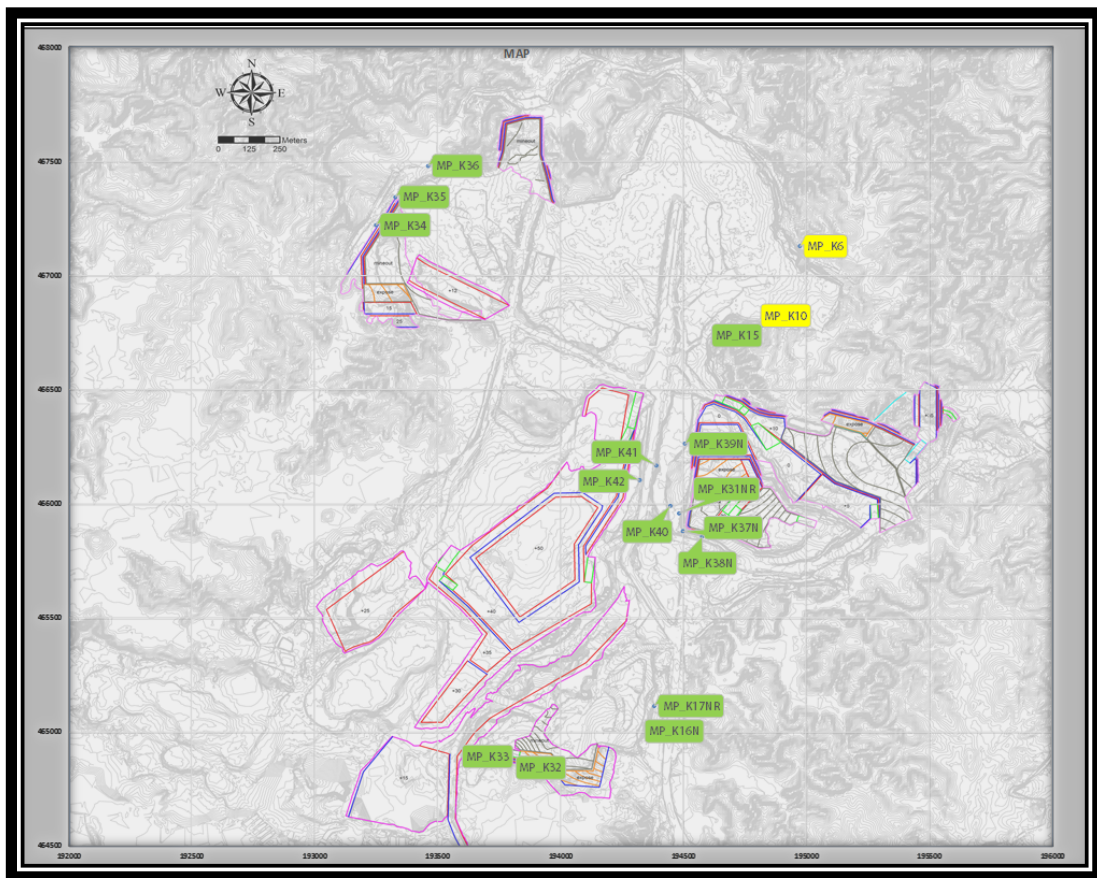
Tabel A.3. Monitoring Pergeseran Lereng 17 Maret 2021

SLOPE MONITORING PIT B														
Monitoring	Prev Obs	Today Obs	Coordinate		Elevation	Total Movement (cm)	Average Movement/Day (cm)	Last Movement (cm)	Location	STATUS	DIRECTION	Equipment Error (cm)	Initial Obs	Remark
			X	Y										
MP K8	17-Mar-21	18-Mar-21	184974.784	467128.053	44.280	5.7	0.1	4.2	Pt Utara - Timur	Stabil	NorthEast	3	1-Jan-21	
MP K10	17-Mar-21	18-Mar-21	184816.452	466790.709	34.689	6.7	0.1	6.4	Pt Utara - Timur	Total Stabil	NorthEast	3	1-Jan-21	
MP K18	17-Mar-21	18-Mar-21	184805.542	466771.702	36.800	8.4	0.1	8.5	Pt Utara - Timur	Tidak Stabil	NorthEast	3	1-Jan-21	
MP K16N	17-Mar-21	18-Mar-21	184351.875	465024.088	10.685	4.3	0.1	1.8	Pt Selatan	Stabil	NorthEast	3	13-Feb-21	Petasi Pengganti K16
MP K37N	17-Mar-21	18-Mar-21	184383.542	465112.257	11.219	4.7	0.1	4.5	Pt Selatan	Stabil	NorthWest	3	13-Feb-21	Petasi Pengganti K37
MP K31N	17-Mar-21	18-Mar-21	184432.613	465957.258	5.904	3.7	1.2	4.5	Final Wali Barat Sasm C	Stabil	SouthWest	3	16-Mar-21	Petasi Pengganti K31
MP K32	17-Mar-21	18-Mar-21	183835.472	464871.133	10.869	3.5	0.7	5.4	Sida Wali Selatan	Tidak Stabil	NorthEast	3	14-Mar-21	
MP K33	17-Mar-21	18-Mar-21	183722.286	464888.784	19.205	6.1	0.2	6.0	Sida Wali Selatan	Tidak Stabil	SouthEast	3	13-Feb-21	
MP K34	17-Mar-21	18-Mar-21	183251.263	467220.587	26.872	1.8	0.1	5.1	Final Wali Utara - Barat	Total Stabil	NorthEast	3	2-Mar-21	
MP K35	17-Mar-21	18-Mar-21	183228.527	467344.330	27.525	6.1	0.4	5.2	Final Wali Utara - Barat	Tidak Stabil	NorthEast	3	2-Mar-21	
MP K36	17-Mar-21	18-Mar-21	183483.128	467480.440	21.561	3.4	0.2	5.8	Final Wali Utara - Barat	Tidak Stabil	NorthEast	3	2-Mar-21	
MP K37N	17-Mar-21	18-Mar-21	184498.248	465879.027	3.303	0.5	0.2	2.0	Bench R/O - Caturanya	Stabil	SouthWest	3	16-Mar-21	Petasi Pengganti K37
MP K38N	17-Mar-21	18-Mar-21	184577.804	465454.151	2.351	0.5	0.2	2.0	Bench R/O - Caturanya	Stabil	SouthWest	3	16-Mar-21	Petasi Pengganti K38
MP K39N	17-Mar-21	18-Mar-21	184507.399	465262.411	14.133	4.1	1.4	4.4	Final Wali Barat Sasm C	Stabil	SouthWest	3	16-Mar-21	Petasi Pengganti K39
MP K40	17-Mar-21	18-Mar-21	184448.410	465990.109	12.512	1490.8	496.9	238.9	Final Wali Barat Sasm C	Slip & Total Stabil	NorthEast	3	16-Mar-21	
MP K41	17-Mar-21	18-Mar-21	184391.298	466186.612	23.759	371.2	133.7	115.6	Final Wali Barat Sasm C	Slip & Total Stabil	SouthEast	3	16-Mar-21	
MP K42	17-Mar-21	18-Mar-21	184333.848	466160.716	28.776	1413.8	372.4	190.4	Final Wali Barat Sasm C	Slip & Total Stabil	SouthEast	3	16-Mar-21	
Index Parameter Movement														
dy, dx	0 - 5 cm	Stabil			Aman									
	5 - 10 cm	Tidak Stabil			Waspada									
	> 10 cm	Slip & Total Stabil			Danger									



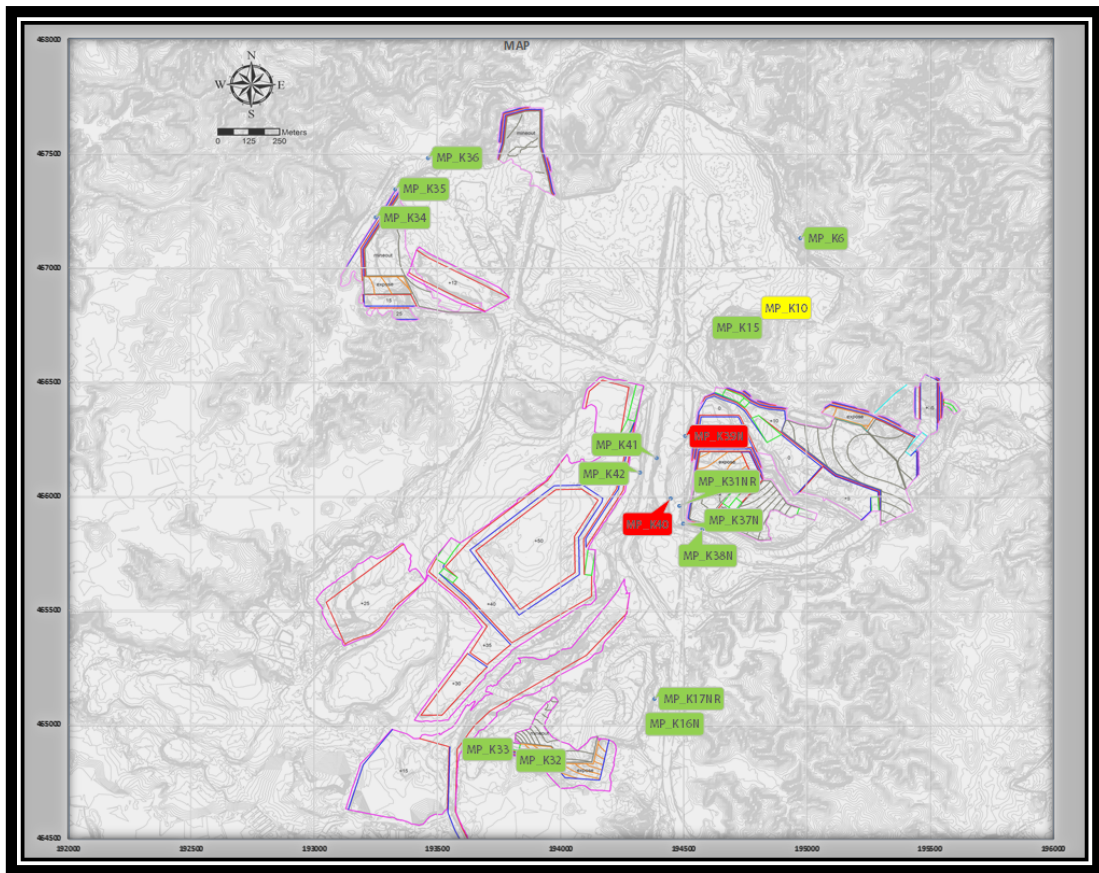
Tabel A.4. Monitoring Pergeseran Lereng 18 Maret 2021

SLOPE MONITORING PIT B														
Monitoring	Prev Obs	Today Obs	Coordinate		Elevation	Total Movement (cm)	Average Movement /Day (cm)	Last Movement (cm)	Location	STATUS	DIRECTION	Equipment Error (cm)	Initial Obs	Remark
			X	Y										
MP K5	18-Mar-21	19-Mar-21	194974.754	457127.974	44.290	8.7	0.1	8.5	Pit Utara - Timur	Tidak Stabi	SouthWest	3	1-Jan-21	
MP K10	18-Mar-21	19-Mar-21	194485.381	466780.663	34.689	2.5	0.0	8.5	Pit Utara - Timur	Tidak Stabi	SouthWest	3	1-Jan-21	
MP K15	18-Mar-21	19-Mar-21	194805.542	466771.702	36.800	8.4	0.1	0.0	Pit Utara - Timur	Stabi	NorthEast	3	1-Jan-21	
MP K16N	18-Mar-21	19-Mar-21	194351.878	465024.098	10.703	6.3	0.2	2.4	Pit Selatan	Stabi	NorthEast	3	13-Feb-21	Peta Pengganti 104
MP K37NR	18-Mar-21	19-Mar-21	194383.243	465112.262	11.219	5.2	0.1	0.5	Pit Selatan	Stabi	NorthWest	3	13-Feb-21	Peta Pengganti 107
MP K31NR	18-Mar-21	19-Mar-21	194442.606	465997.217	5.204	2.0	0.5	1.6	Final Wall Barat Selem C	Stabi	SouthWest	3	16-Mar-21	Peta Pengganti 124
MP K32	18-Mar-21	19-Mar-21	193855.648	464871.131	10.838	2.4	0.4	3.9	Side Wall Selatan	Stabi	NorthEast	3	14-Mar-21	
MP K33	18-Mar-21	19-Mar-21	193722.281	464888.780	15.167	5.9	0.2	3.9	Side Wall Selatan	Stabi	SouthEast	3	13-Feb-21	
MP K34	18-Mar-21	19-Mar-21	193251.263	467220.580	26.859	1.5	0.1	1.5	Final Wall Utara - Barat	Stabi	NorthEast	3	2-Mar-21	
MP K35	18-Mar-21	19-Mar-21	193328.831	467344.340	27.148	7.4	0.4	2.5	Final Wall Utara - Barat	Stabi	NorthEast	3	2-Mar-21	
MP K36	18-Mar-21	19-Mar-21	193465.198	467480.438	21.561	3.3	0.2	0.2	Final Wall Utara - Barat	Stabi	SouthWest	3	2-Mar-21	
MP K37N	18-Mar-21	19-Mar-21	194493.245	465879.008	3.304	2.1	0.5	1.5	Bench R.L.O - CBRanya	Stabi	SouthWest	3	16-Mar-21	Peta Pengganti 127
MP K38N	18-Mar-21	19-Mar-21	194577.288	465885.124	2.388	2.5	0.6	2.2	Bench R.L.O - CBRanya	Stabi	SouthWest	3	16-Mar-21	Peta Pengganti 128
MP K39N	18-Mar-21	19-Mar-21	194507.368	465262.391	14.109	0.9	0.2	2.9	Final Wall Barat Selem C	Stabi	SouthWest	3	16-Mar-21	Peta Pengganti 128
MP K40	18-Mar-21	19-Mar-21	194448.486	465990.096	12.517	1498.2	374.5	1.6	Dispose R.L13/Jalan CG	Stabi	NorthEast	3	16-Mar-21	
MP K41	18-Mar-21	19-Mar-21	194391.400	466166.620	23.753	380.9	95.2	1.5	Dispose R.L13/Jalan CG	Stabi	SouthEast	3	16-Mar-21	
MP K42	18-Mar-21	19-Mar-21	194324.064	466101.748	28.775	1128.9	282.2	2.9	Dispose R.L30/Jalan CG	Stabi	SouthEast	3	16-Mar-21	
												Index Parameter Movement		
dy, dx										0 - 5 cm	Stabi	Aman		
										5 - 10 cm	Tidak Stabi	Waspada		
										> 10 cm	Kritis/Instabil	Berbahaya		



Tabel A.5. Monitoring Pergeseran Lereng 19 Maret 2021

SLOPE MONITORING PIT B														
Monitoring	Prev Obs	Today Obs	Coordinate		Elevation	Total Movement (Cm)	Average Movement / Day (Cm)	Last Movement (Cm)	Location	STATUS	DIRECTION	Equipment Error (Cm)	Initial Obs	Remark
			X	Y										
MP K6	19-Mar-21	20-Mar-21	194974.770	457128.001	44.297	5.7	0.1	3.2	Pit Utara - Timur	Stabil	SouthWest	3	1-Jan-21	
MP K10	19-Mar-21	20-Mar-21	194826.431	466780.682	34.680	3.6	0.0	5.4	Pit Utara - Timur	Tidak Stabil	SouthEast	3	1-Jan-21	
MP K15	19-Mar-21	20-Mar-21	194805.520	466771.688	36.791	6.6	0.1	2.8	Pit Utara - Timur	Stabil	NorthEast	3	1-Jan-21	
MP K16N	19-Mar-21	20-Mar-21	194831.882	465924.126	10.686	6.1	0.2	3.3	Pit Selatan	Stabil	NorthEast	3	13-Feb-21	Petas Pengganti K16
MP K37NR	19-Mar-21	20-Mar-21	194853.358	465112.509	11.218	9.9	0.3	4.9	Pit Selatan	Stabil	NorthEast	3	13-Feb-21	Petas Pengganti K37N
MP K31NR	19-Mar-21	20-Mar-21	194482.628	465987.256	5.897	4.0	0.8	1.4	Final Wall barat Serni C	Stabil	SouthWest	3	16-Mar-21	Petas Pengganti K31N
MP K32	19-Mar-21	20-Mar-21	193835.476	464871.137	10.824	4.6	0.7	2.8	Side Wall Selatan	Stabil	NorthEast	3	16-Mar-21	
MP K33	19-Mar-21	20-Mar-21	193722.324	464888.776	15.164	9.5	0.3	3.5	Side Wall Selatan	Stabil	SouthEast	3	13-Feb-21	
MP K34	19-Mar-21	20-Mar-21	193251.261	467220.356	26.864	1.5	0.1	2.3	Final Wall Utara - Barat	Stabil	SouthEast	3	2-Mar-21	
MP K35	19-Mar-21	20-Mar-21	193218.930	467344.341	27.537	7.2	0.4	1.1	Final Wall Utara - Barat	Stabil	NorthEast	3	2-Mar-21	
MP K36	19-Mar-21	20-Mar-21	193401.161	467490.421	21.370	2.2	0.1	1.3	Final Wall Utara - Barat	Stabil	SouthEast	3	2-Mar-21	
MP K37N	19-Mar-21	20-Mar-21	194456.259	465879.049	3.295	2.6	0.5	1.3	Bench RL 0 - Cibaunya	Stabil	SouthWest	3	16-Mar-21	Petas Pengganti K37
MP K38N	19-Mar-21	20-Mar-21	194577.307	465855.160	2.388	0.6	0.1	1.6	Bench RL 0 - Cibaunya	Stabil	SouthWest	3	16-Mar-21	Petas Pengganti K38
MP K39N	19-Mar-21	20-Mar-21	194507.241	466026.547	14.080	22.9	4.6	19.8	Final Wall barat Serni C	Tidak Stabil	NorthEast	3	16-Mar-21	Petas Pengganti K39
MP K40	19-Mar-21	20-Mar-21	194448.552	465990.167	13.381	1504.5	140.0	140.0	Disposir RL 0/Jan CG	Tidak Stabil	NorthEast	3	16-Mar-21	
MP K41	19-Mar-21	20-Mar-21	194391.434	466166.651	23.751	383.6	76.7	4.8	Disposir RL 0/Jan CG	Stabil	SouthEast	3	16-Mar-21	
MP K42	19-Mar-21	20-Mar-21	194324.083	466101.772	28.753	1151.0	226.2	4.1	Disposir RL 0/Jan CG	Stabil	NorthEast	3	16-Mar-21	
Index Parameter Movement														
dy, dx											0 - 3 cm	Stabil	Aman	
											3 - 10 cm	Total Stabil	Waspada	
											> 10 cm	Tidak Stabil	Bahaya	



LAMPIRAN B

DATA CURAH HUJAN

Data curah hujan di Desa Peunaga Cut Ujong, Kecamatan Meurebo, Kabupaten Aceh Barat, Provinsi Aceh yang di peroleh dari data curah hujan maksimum didapat dari Stasiun Meteorologi dan Geofisika, Cut Nyak Dhien, Kabupaten Aceh Barat. Data yang diperoleh adalah data curah hujan per harian max dalam 37 tahun meliputi dari tahun 1982 – 2019. Data curah hujan ini diambil pada lokasi penelitian yang berada di *highwall seam C* . curah hujan dapat dilihat pada **Tabel B.1** yang didukung oleh data curah hujan pada bulan maret 2021 pada saat terjadinya kelongsoran yang dapat ditinjau pada **Tabel B.2** sebagai berikut:

Tabel B.1. Jumlah Curah Hujan Kabupaten Aceh Barat 1982 – 2019. (Stasiun Meteorologi dan Geofisika, Cut Nyak Dhien, Kabupaten Aceh Barat, 2021)

CURAH HUJAN R MAX 1 Hari (mm)												
TAHUN	JANUARI	FEBRUARI	MARET	APRIL	MEI	JUNI	JULI	AGUSTUS	SEPTEMBER	OKTOBER	NOVEMBER	DESEMBER
1982	100	50	109	98	103	36	174	48	109	108	88	108
1983	35	93	99	66	161	87	50	37	102	22	14	158
1984	77	88	126	115	60	29	120	61	101	45	39	76

1986	63	115	106	104	270	84	138	38	72	118	41	40
1987	21	78	63	100	87	54	116	52	135	94	166	125
1988	62	34	102	199	53	39	38	134	98	68	209	83
1989	110	40	23	170	68	70	156	37	119	100	107	28
1990	109	99	79	143	77	115	20	67	148	88	114	103
1991	62	51	90	122	55	184	69	61	40	81	108	116
1992	147	200	162	161	154	43	111	90	73	145	126	73
1993	75	84	42	93	96	110	108	90	94	54	77	48
1994	38	107	185	124	62	25	41	102	210	83	45	51
1995	144	108	140	115	227	47	74	51	128	84	63	66
1996	48	125	70	132	65	34	84	110	49	98	127	31
1997	57	76	40	94	75	46	169	21	147	163	77	220
1998	163	53	72	70	101	32	113	132	175	60	235	87
1999	130	45	59	62	87	32	52	49	81	50	78	40
2000	82	127	52	80	140	90	57	54	67	60	69	81
2001	62	65	80	80	58	81	113	47	40	89	98	179
2002	122	42	65	80	124	65	152	110	112	80	88	71
2003	54	115	40	89	54	104	22	152	123	46	96	55

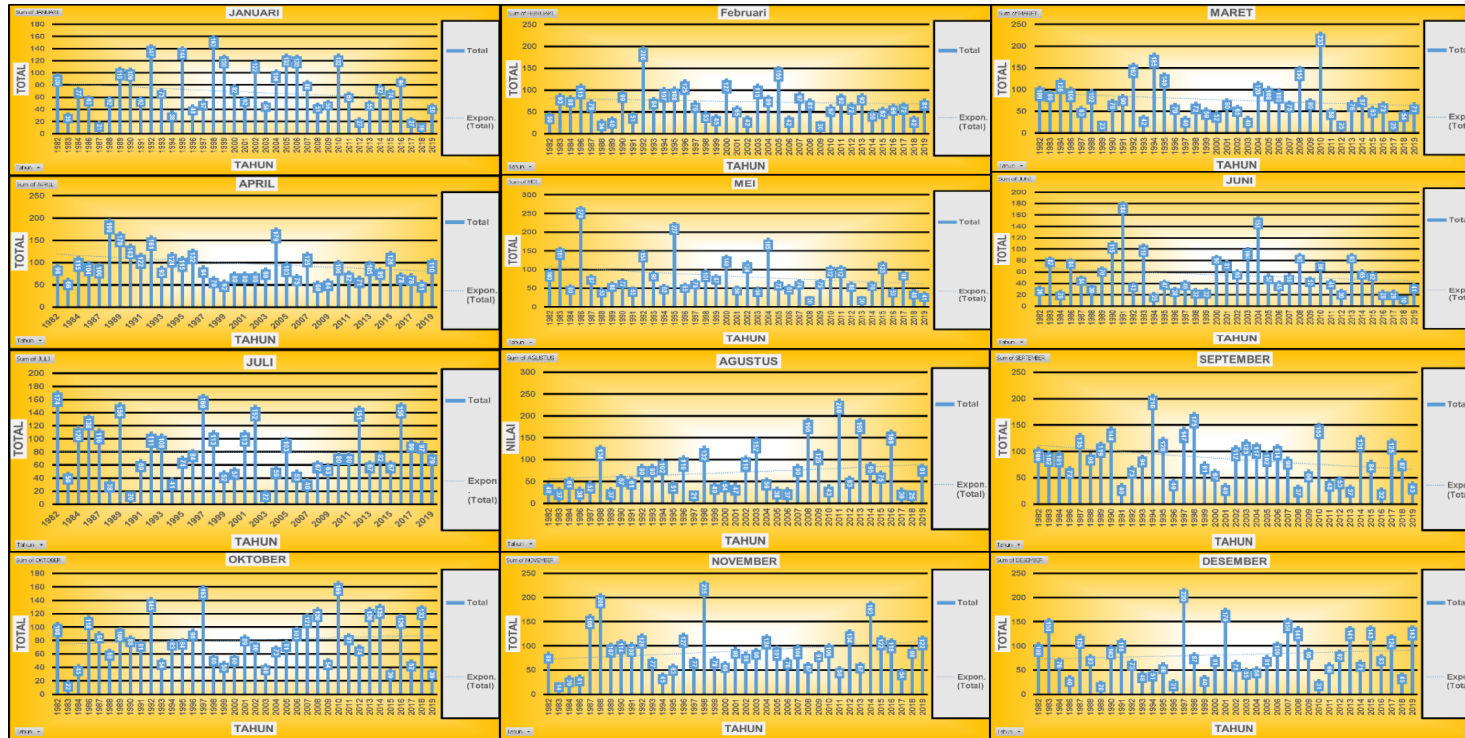
2004	106	89	120	179	185	158	59	59	117	73	124	58
2005	132	155	108	103	72	57	103	38	102	81	101	81
2006	130	42	103	75	61	45	53	37	114	101	76	109
2007	88	97	75	125	74	58	40	90	90	121	104	158
2008	51	81	155	60	30	93	67	196	37	130	67	141
2009	56	30	80	64	75	52	63	125	66	54	91	96
2010	132	67	233	106	112	80	80	43	155	169	106	31
2011	69	92	58	82	112	48	80	240	48	91	58	66
2012	27	72	25	71	68	30	151	63	53	74	134	92
2013	55	93	76	105	30	93	67	196	37	130	67	141
2014	82	56	87	89	70	65	82	95	131	135	193	71
2015	74	62	63	126	123	62	67	75	84	39	122	143
2016	94	69	73	78	53	29	156	169	32	120	116	83
2017	27	72	25	76	98	29	99	36	125	52	54	124
2018	10	42	54	61	48	10	97	25	87	133	98	45
2019	50	81	71	110	41	41	79	91	43	39	122	143

Tabel B.2 Jumlah Curah Hujan Bulan Maret 2021. (Lokasi Nursery Dalam Pemantauan Curah Hujan, Kabupaten Aceh Barat, 2021)

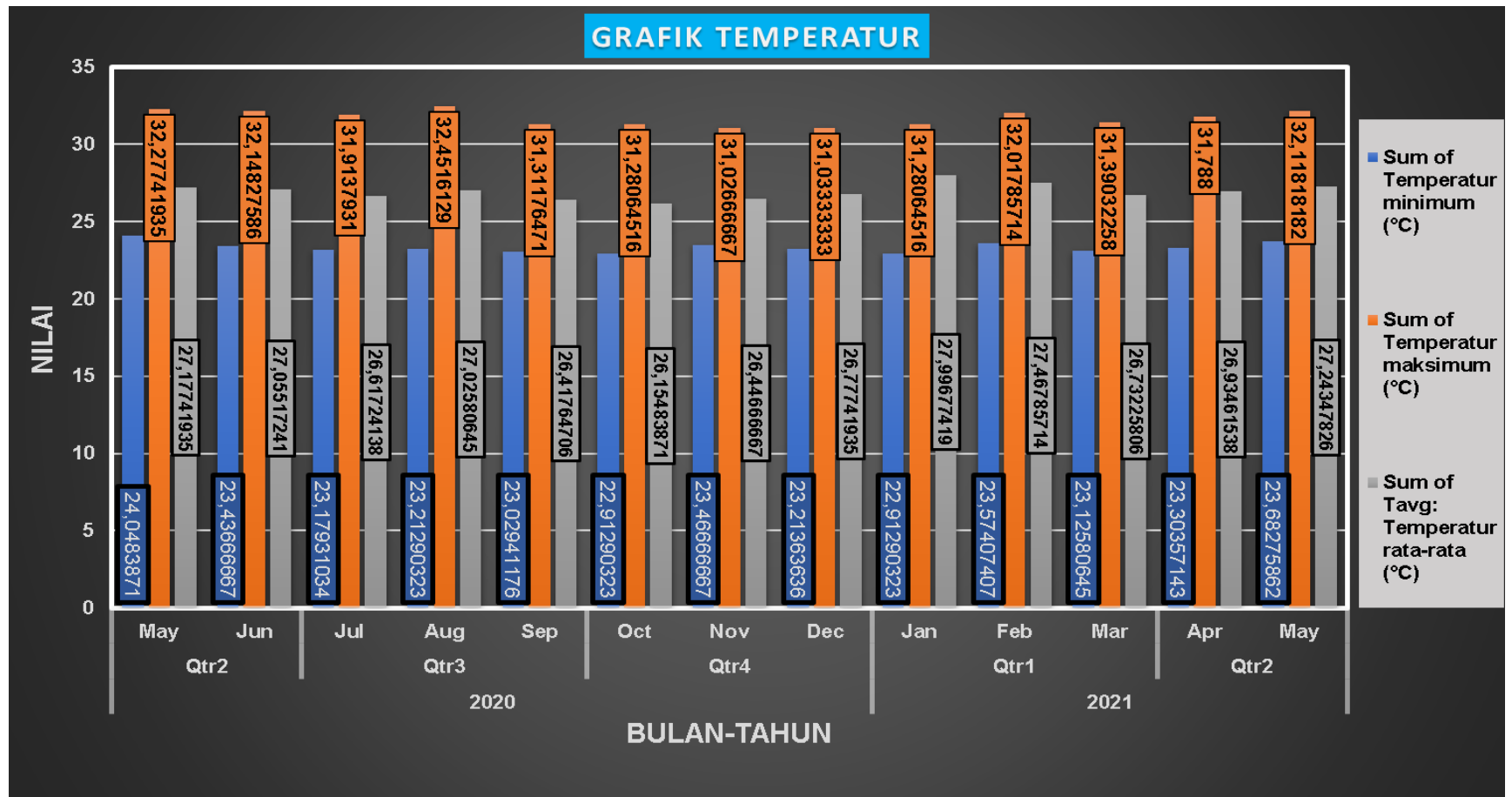
Tgl	PUKUL																					Tebal CH (mm)			Idle Kerja (Jam)						
	06.07	07.08	08.09	09.10	10.11	11.12	12.13	13.14	14.15	15.16	16.17	17.18	18.19	19.20	20.21	21.22	22.23	23.24	0.01	01.02	02.03	03.04	04.05	05.06	Siang	Malam	Total	Siang	Malam	Total	
1																							11				11.0				
2																															
3																															
4																															
5																								6.5				6.5			
6																								37				37.0			
7																								4				4.0			
8																															
9																								2				2.0			
10																															
11																															
12																															
13																								54				54.0			

LAMPIRAN C

GRAFIK CURAH HUJAN DAN GRAFIK TEMPERATUR

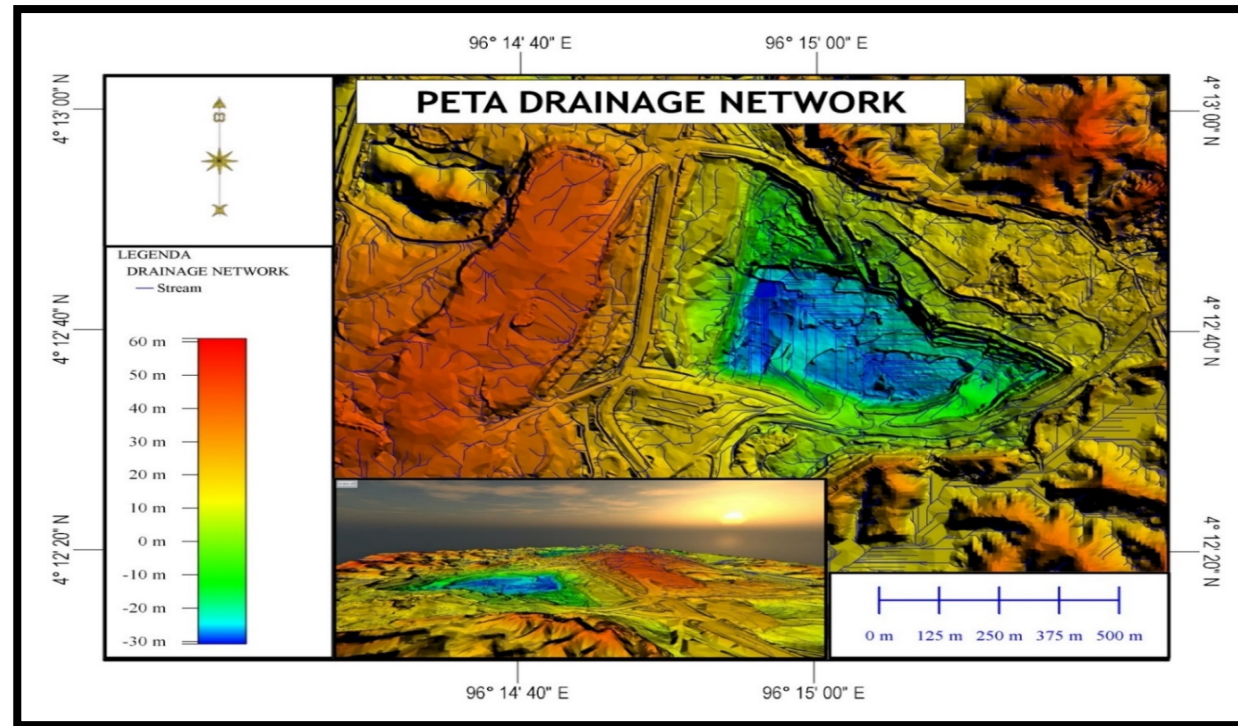


Gambar C.1. Grafik Curah Hujan

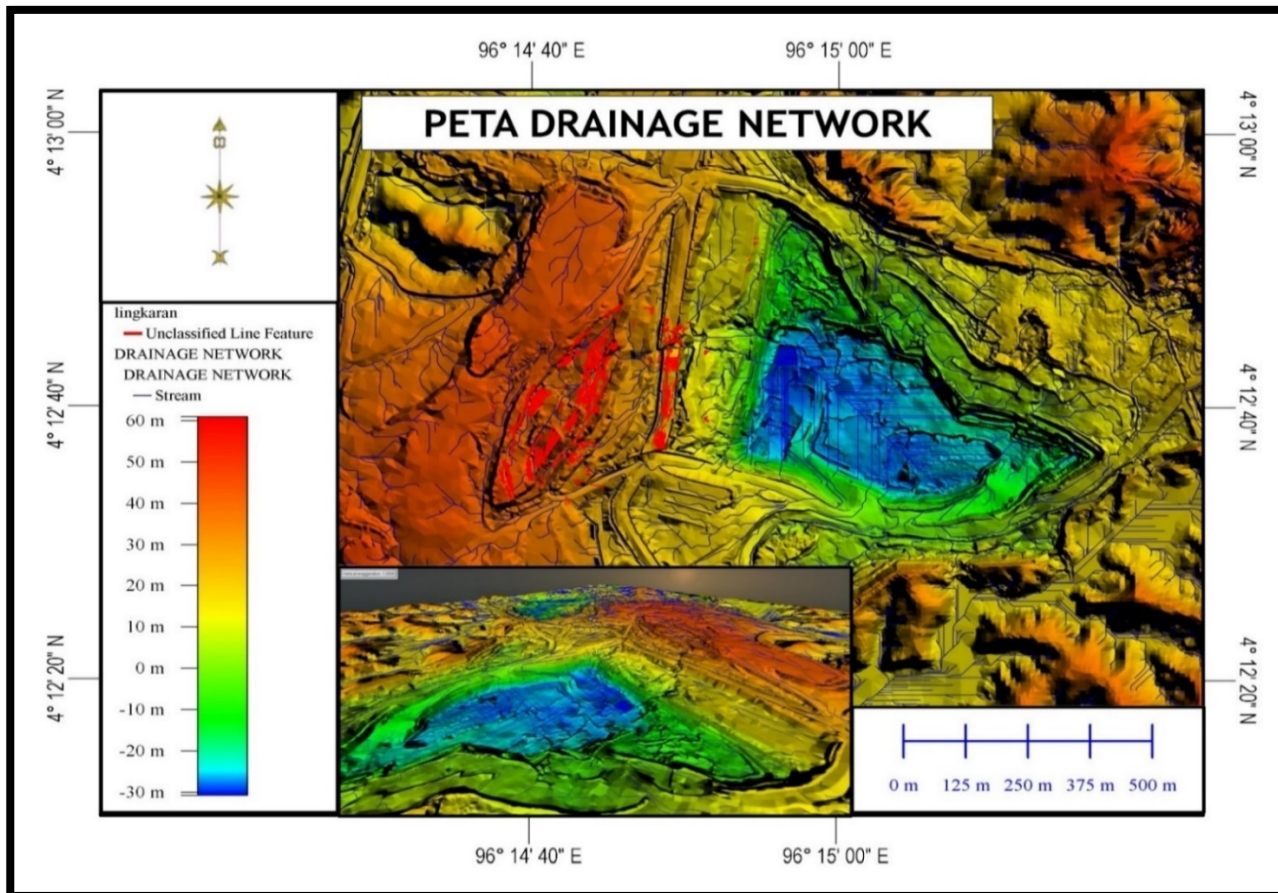


Gambar C.2. Grafik Temperatur

LAMPIRAN E
PETA *DRAINAGE NETWORK*



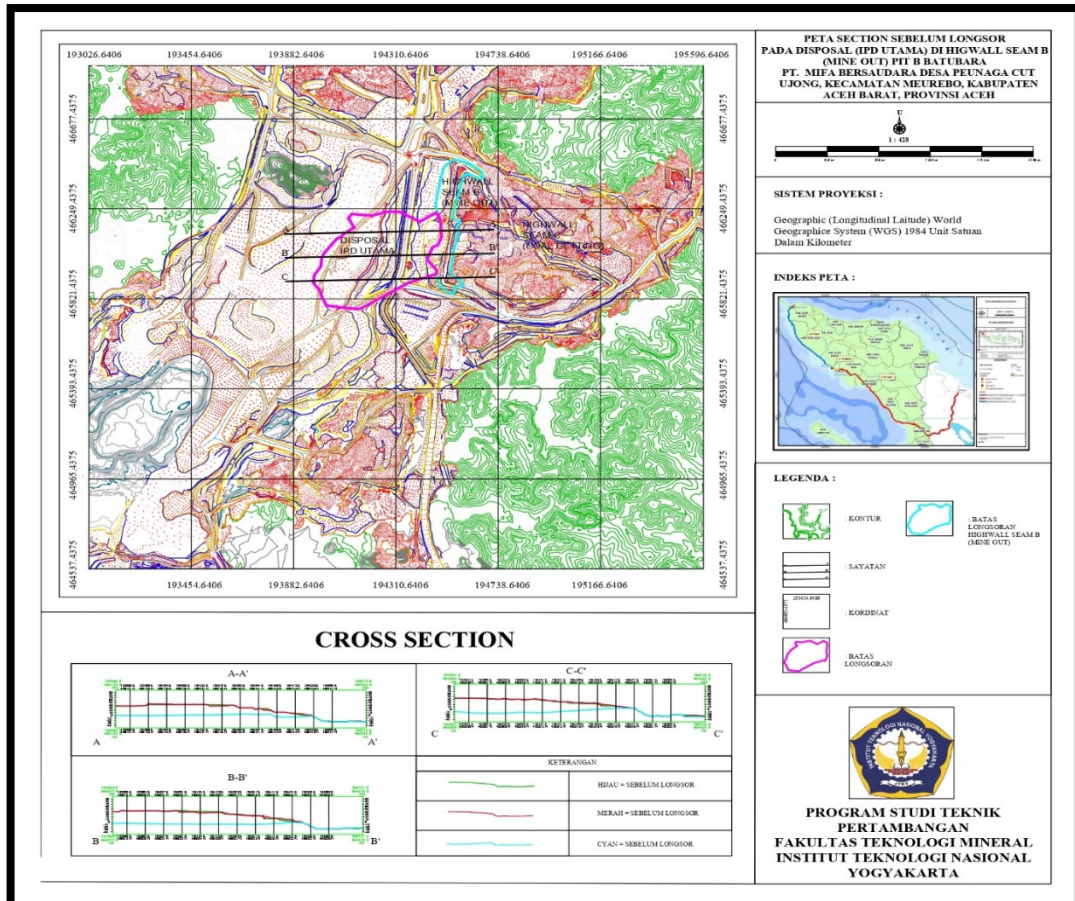
Gambar E.1. Peta *Drainage Network* Sebelum Longsor



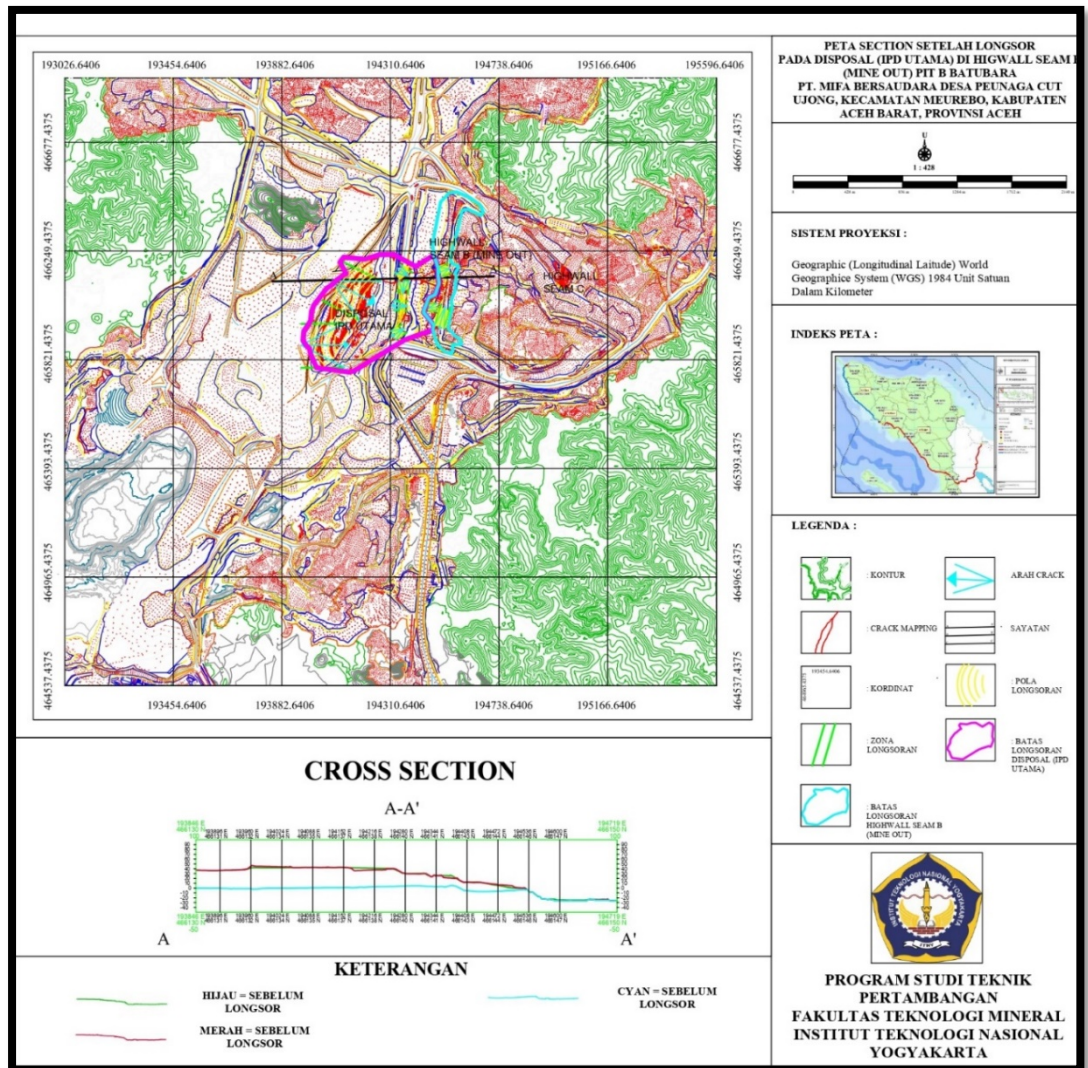
Gambar E.2. Peta *Drainage Network* Setelah Longsor

LAMPIRAN F

PETA SAYATAN



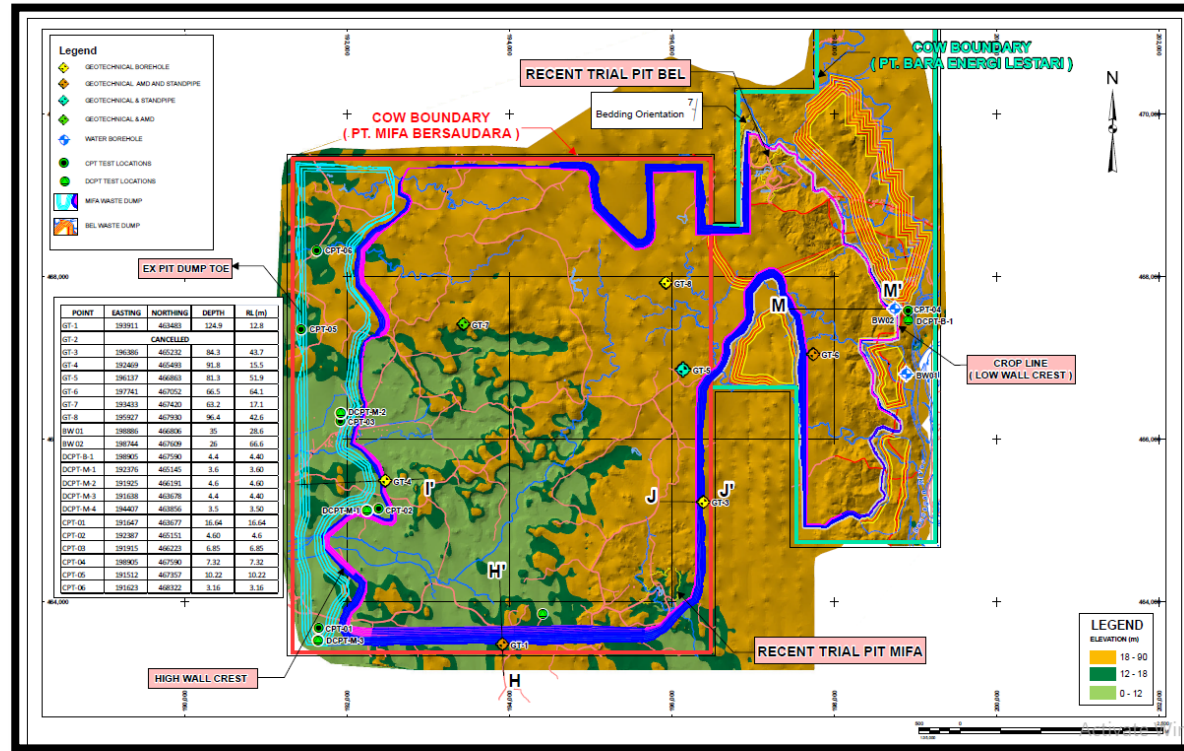
Gambar F.1. Peta Sayatan Sebelum Longsor



Gambar F.2. Peta Sayatan Setelah Longsor

LAMPIRAN G

HASIL PENGEBORAN PADA LUBANG BOR EKSPLORASI GT-05 TAHUN 2014



Gambar G.1. Lokasi titik bor GT 05

Tabel G.1. Hasil Pengeboran Pada Lubang Bor Eksplorasi GT-05 Tahun 2014.
(Data Sekunder Log Bor Eksplorasi, 2014)

FROM	TO	ROCK/SOIL MATERIAL DESCRIPTION	Material
0	0,54	<i>Silty CLAY, medium plasticity, brown, trace of organic (roots), moist, firm, PP=90 kPa</i>	
0,54	0,6	<i>Core loss</i>	
0,6	1,01	<i>Silty CLAY, medium plasticity, brown, moist, firm</i>	
1,01	1,14	<i>Core loss</i>	
1,14	1,72	<i>MUDSTONE, brown</i>	
1,72	3,12	<i>trace of carbonaceous matters</i>	
3,12	3,22	<i>Core loss</i>	
3,22	3,81	<i>MUDSTONE, brown</i>	
3,81	4,52	<i>interlaminated with medium grained sandstone</i>	
4,52	4,6	<i>SANDSTONE, medium grained, weakly cemented, brown</i>	
4,6	4,72	<i>Core loss</i>	
4,72	5,1	<i>SANDSTONE, fine to coarse grained, brownish grey, moderately cemented</i>	
5,1	5,9	<i>MUDSTONE, grey</i>	
5,9	6,22	<i>Core loss</i>	
6,22	6,99	<i>SANDSTONE, fine to medium grained, grey, trace of carbonaceous lamination</i>	
6,99	7,62	<i>MUDSTONE, grey</i>	
7,62	7,66	<i>Core loss</i>	
7,66	8,28	<i>MUDSTONE, grey</i>	
8,28	9,12	<i>COAL, black (SEAM A)</i>	
9,12	9,22	<i>Core loss</i>	
9,22	10,04	<i>COAL, black</i>	
10,04	10,34	<i>Core loss</i>	
10,34	11,59	<i>COAL, black</i>	
11,59	12,34	<i>Core loss</i>	
12,34	13,84	<i>MUDSTONE, grey, trace of carbonaceous in places</i>	

13,84	14,69	<i>trace of coal lamination in places</i>	
14,69	14,95	<i>with carbonaceous</i>	
14,95	15,09	<i>COAL, black, fragmented</i>	
15,09	15,34	<i>Core loss</i>	
15,34	15,54	<i>MUDSTONE, grey</i>	
15,54	16,36	<i>SANDSTONE, fine to medium grained, grey, trace of carbonaceous</i>	
16,36	16,84	<i>MUDSTONE, grey, trace of carbonaceous</i>	
16,84	17,43	<i>interlaminated with fine grained sandstone</i>	
17,43	17,45	<i>COAL, black</i>	
17,45	18,34	<i>MUDSTONE, grey</i>	
17,45	19,84	<i>MUDSTONE, grey, interlaminated with fine grained sandstone</i>	
19,84	20	<i>grades yellow brown</i>	
20	20,45	<i>MUDSTONE, grey, interlaminated with fine grained sandstone</i>	
20,45	22,19	<i>Core loss</i>	
22,19	22,31	<i>SANDSTONE, coarse grained, yellow brown, weakly cemented</i>	
22,31	24,34	<i>MUDSTONE, grey</i>	
24,34	25,1	<i>trace of carbonaceous</i>	
25,1	28,14	<i>COAL, black (SEAM B)</i>	
28,14	28,74	<i>MUDSTONE, grey, trace of carbonaceous</i>	
28,74	28,84	<i>Core loss</i>	
28,84	31,64	<i>Sandy MUDSTONE, grey, trace of carbonaceous matters</i>	
31,64	31,68	<i>SANDSTONE, medium grained, grey</i>	
31,68	33,04	<i>MUDSTONE, grey with trace of carbonaceous</i>	
33,04	33,14	<i>Sideritic SANDSTONE, medium grained, grey</i>	
33,14	33,34	<i>MUDSTONE, grey</i>	
33,34	34,84	<i>interbedded with sandstone, fine grained, trace of carbonaceous</i>	
34,84	37,62	<i>with sideritic sandstone between 34.85-34.88 m depth, trace of carbonaceous in places</i>	
37,62	38,1	<i>SANDSTONE, fine grained, grey</i>	
38,1	39,04	<i>MUDSTONE, grey, trace of carbonaceous matters</i>	

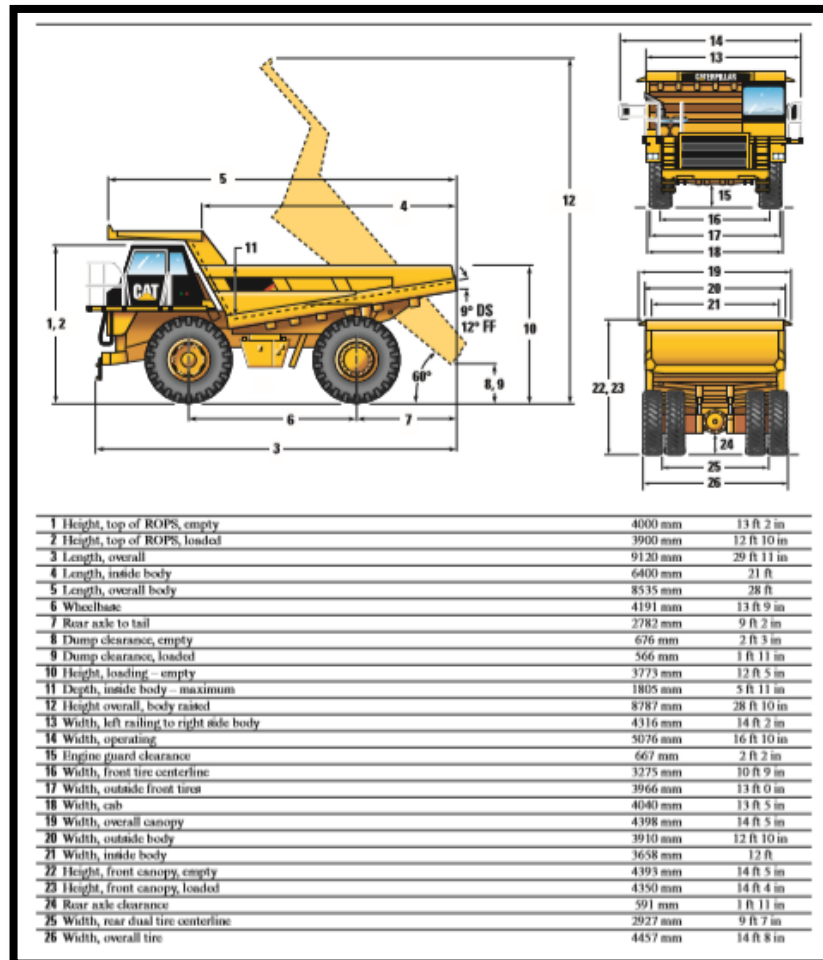
39,04	39,14	<i>SANDSTONE, coarse grained, grey</i>	
39,14	39,34	<i>Core loss</i>	
39,34	39,99	<i>MUDSTONE, grey</i>	
39,99	40,84	<i>SANDSTONE, fine to medium grained, grey</i>	
40,84	43,04	<i>grades fine to coarse grained, weakly cemented, grey</i>	
43,04	46,19	<i>Core loss</i>	
46,19	46,22	<i>Sandy MUDSTONE, grey</i>	
46,22	50,59	<i>Core loss</i>	
50,59	50,62	<i>SANDSTONE, coarse grained, grey, moderately cemented</i>	
50,62	51,34	<i>Core loss</i>	
51,34	51,39	<i>SANDSTONE, coarse grained, grey</i>	
51,39	52,84	<i>Core loss</i>	
52,84	53,98	<i>SANDSTONE, coarse grained, grey, weakly cemented, becomes fine grained @ 53.68 m depth</i>	
53,98	54,34	<i>Core loss</i>	
54,34	55,59	<i>SANDSTONE, fine to coarse grained, grey, trace of carbonaceous lamination</i>	
55,59	55,84	<i>Core loss</i>	
55,84	57,24	<i>SANDSTONE, fine to medium grained, grey, trace of carbonaceous lamination</i>	
57,24	58,84	<i>MUDSTONE, grey</i>	
58,84	60	<i>with some fine grained sandstone lamination</i>	
60	60,34	<i>MUDSTONE, grey</i>	
60,34	61,89	<i>trace of coal</i>	
61,89	62,1	<i>Core loss</i>	
62,1	63,34	<i>MUDSTONE, grey, trace of coal</i>	
63,34	64,89	<i>Sandy MUDSTONE, grey</i>	
64,89	65,54	<i>MUDSTONE, grey, trace of carbonaceous</i>	
65,54	67,79	<i>COAL, brownish black (SEAM C1), (water loss @ 65.54 m depth)</i>	
67,79	67,82	<i>Core loss</i>	
67,82	71,66	<i>COAL, brownish black</i>	

71,66	72,34	<i>MUDSTONE, grey</i>	
72,34	73,69	<i>trace of carbonaceous</i>	
73,69	73,84	<i>Core loss</i>	
73,84	74,08	<i>Sandy MUDSTONE, grey</i>	
74,08	74,4	<i>MUDSTONE, grey, trace of carbonaceous</i>	
74,4	75,64	<i>COAL, black (SEAM C2)</i>	
75,64	76,28	<i>MUDSTONE, dark grey, with carbonaceous matters in parts</i>	
76,28	76,47	<i>Sandy MUDSTONE, grey</i>	
76,47	76,84	<i>SANDSTONE, fine grained, grey, moderately cemented</i>	
76,84	77,79	<i>MUDSTONE, grey, with some fine to medium grained sand</i>	
77,79	78,34	<i>SANDSTONE, fine to medium grained, grey, well cemented</i>	
78,34	78,94	<i>MUDSTONE, grey, trace of fine to coarse grained sand</i>	
78,94	79,39	<i>SANDSTONE, fine to medium grained, grey, moderately cemented</i>	
79,39	79,84	<i>Core loss</i>	
79,84	81,34	<i>SANDSTONE, fine to medium grained, grey, moderately cemented</i>	

LAMPIRAN H

SPESIFIKASI ALAT

1. OHT CAT 773E

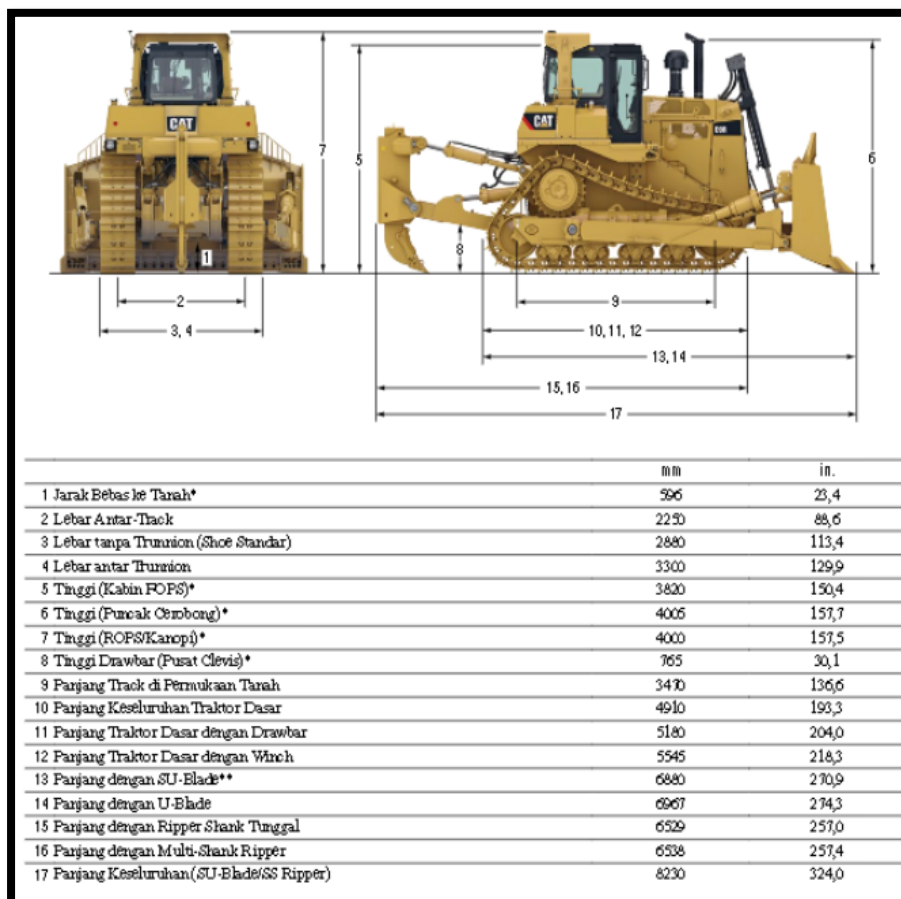


Gambar M.1. Spesifikasi OHT CAT 773E. (773E Off-Highway Truck
Specification Books Caterpillar, 2021)

- a. Kapasitas bak: 26,6 m³ (*struck*)/35,2 m³ (*heaped*)
- b. *Engine*
- c. Model mesin: Cat 3412E
- d. Kapasitas mesin: 27 liter
- e. Tenaga: 710 HP
- f. Kapasitas *payload*: 60 ton

- g. Kecepatan maksimal bermuatan: 62,2 km/j
- h. Ukuran ban: 24.00 R35
- i. Berat truck
 - 1. Berat kosong: 45.480 kg/100.180 lb
 - 2. Berat bermuatan: 99.300 kg/219.000 lb
- j. Distribusi beban
 - 1. Berat kosong: Depan 47,3 %: Belakang 52,7 %
 - 2. Berat bermuatan: Depan 33,3 %: Belakang 66,7 %
- k. Kapasitas bahan bakar: 700 liter

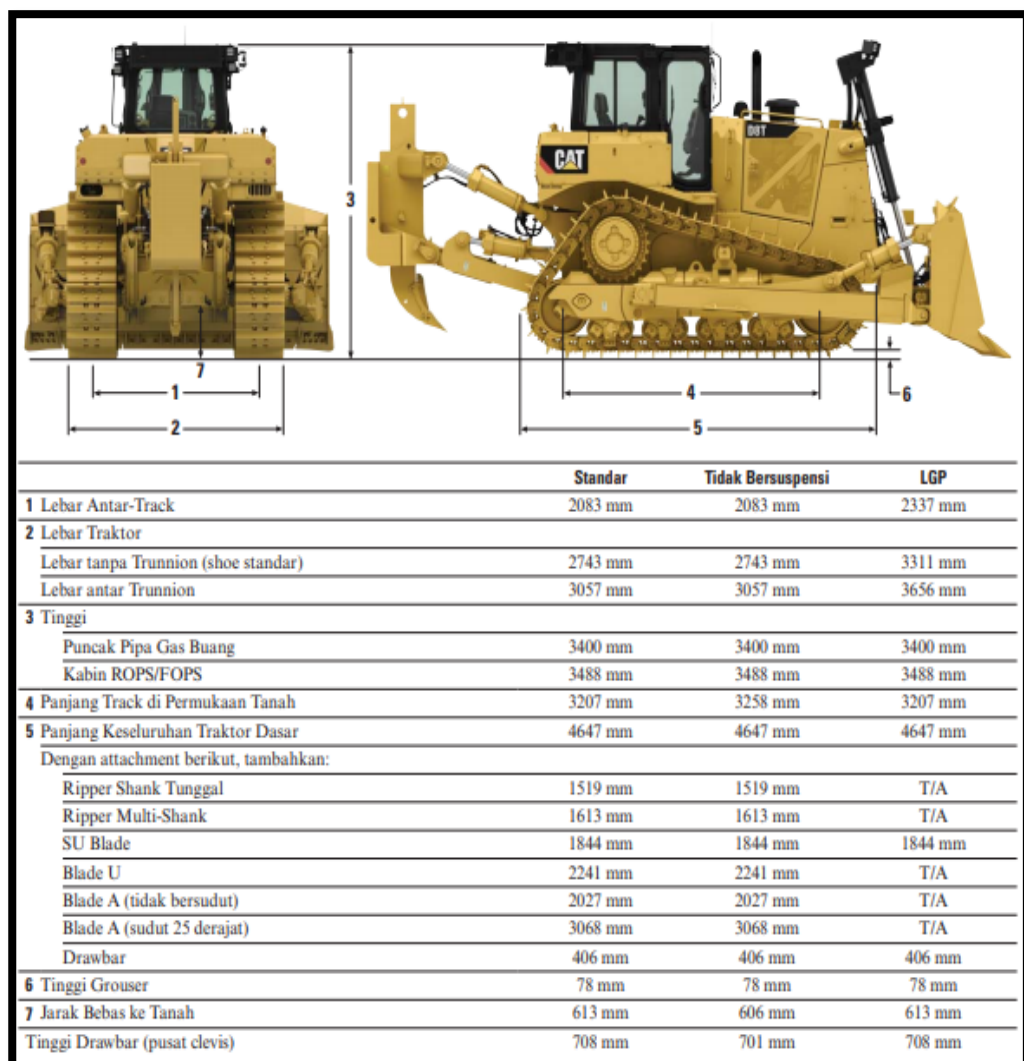
2. *Dozer D9R/D9T*



Gambar M.2. Spesifikasi *Dozer D9R/D9T*. (773E *Off-Highway Truck Specification Books Caterpillar*, 2021)

- a. Engine
 - 1. Daya *Engine*-ISO 14396 = 329 kW
 - 2. Daya *Engine*-Bersih SAE J1349/ISO 9249 = 306 kW
 - 3. Daya *Engine*-Kotor SAE J1995* = 334 kW
- b. Berat *Dozer*
 - 1. Untuk berat *dozer* = 47872 kg

3. *Dozer* D8R/D8T



Gambar M.3. Spesifikasi *Dozer* D8R/D8T. (*773E Off-Highway Truck Specification Books Caterpillar, 2021*)

a. Engine

1. Model *Engine* = C15 Cat
2. Daya – Bersih = 242 kW
3. Daya *Engine*-1900 rpm-ISO 9249/SAE J1349 = 242 kW
4. Daya *Engine*-1900 rpm-ISO 9249/SAE J1349 (DIN) = 242 kW
5. Emisi =Memenuhi standar emisi setara EPA Tier 3 AS/Stage IIIA UE, setara EPA Tier 2 AS/Stage II UE, atau Stage III Non-Jalan Raya China

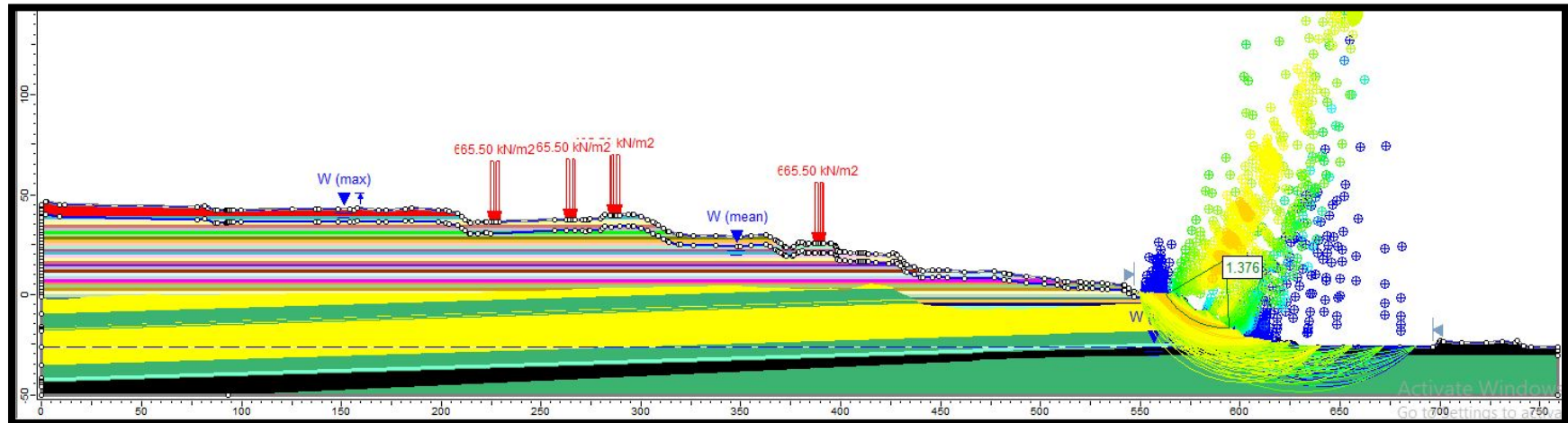
b. Berat *Dozer*

1. Bobot Kerja = 38351 kg
2. Bobot Kerja – Standar = 38351 kg
3. Bobot Kerja – LGP = 36763 kg

LAMPIRAN I

HASIL PERMODELAN DAN GEOMETRI PADA SAYATAN A-A' SEBELUM TERJADINYA LONGSOR TERHADAP LERENG *HIGHWALL SEAM C* SEBELUM MELAKUKAN ANALISIS BALIK

Hasil permodelan lereng *highwall seam C* sebelum dilakukan analisis balik dengan nilai FK 1.376

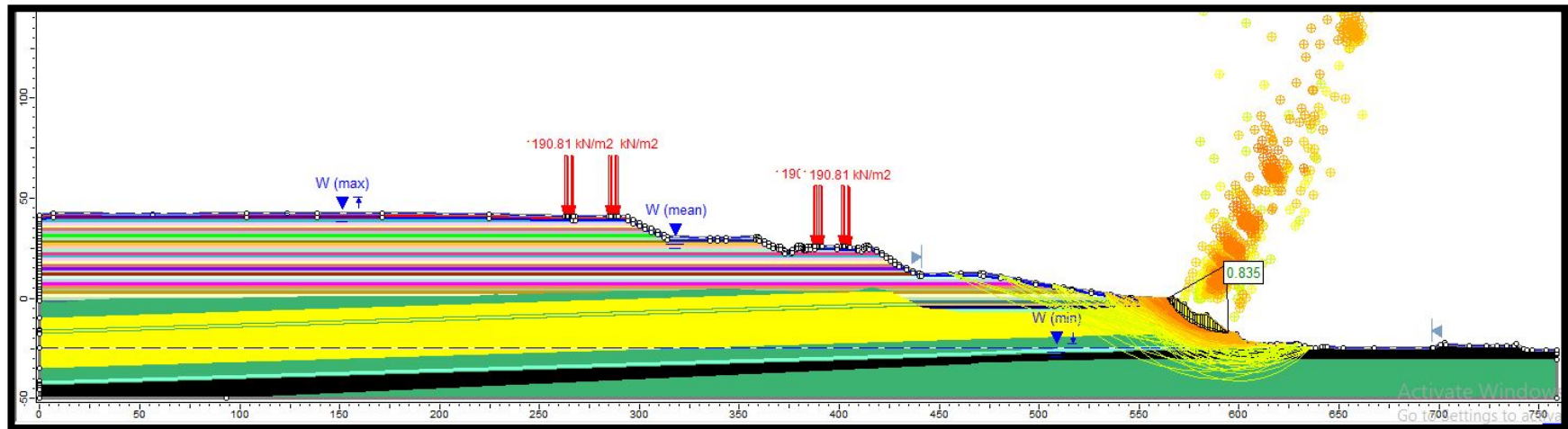


Gambar I. 1 Hasil Permodelan Lereng *Highwall Seam C* Sebelum Analisis Balik

LAMPIRAN J

HASIL PERMODELAN ANALISIS BALIK PADA SAYATAN A-A' SEBELUM TERJADINYA LONGSOR TERHADAP LERENG *HIGHWALL SEAM C*

Hasil permodelan lereng *highwall seam C* setelah dilakukan analisis balik dengan nilai FK **0.835**

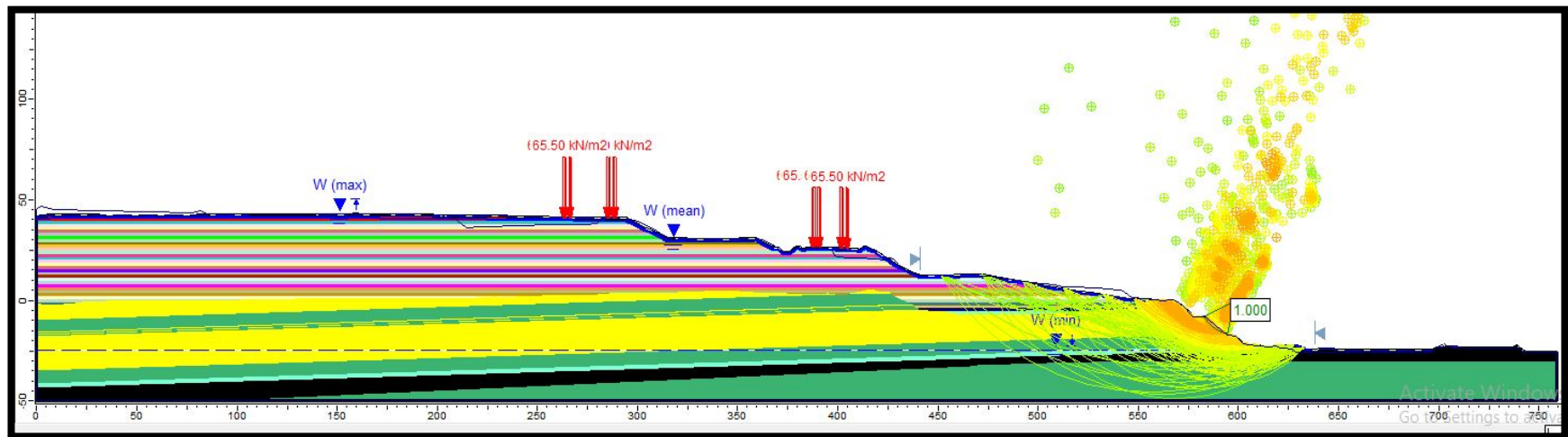


Gambar J.1. Hasil Analisis Balik Permodelan Lereng *Highwall Seam C*

LAMPIRAN K

**HASIL EVALUASI PERMODELAN DAN GEOMETRI PADA SAYATAN A-A' SETELAH
TERJADINYA LONGSOR TERHADAP LERENG *HIGHWALL SEAM C*
MENGUNAKAN PARAMETER ANALISIS BALIK**

Hasil evaluasi permodelan lereng *highwall seam C* setelah dilakukan analisis balik dengan nilai FK 1.000



Gambar K.2. Hasil Evaluasi Permodelan Lereng *Highwall Seam C* Pasca Longsor

LAMPIRAN L
SERTIFIKAT PENELITIAN



**PENILAIAN SKRIPSI
DI LAPANGAN/LABORATORIUM**

NAMA : Muhammad Anton Nugroho
NO.MHS : 710017009

Telah melaksanakan Skripsi di PT. Mifa Bersaudara
Dengan judul Analisis Stabilitas Lereng Disposol Setelah Terjadinya Longsor Pada Lokasi IPD
Utama Seam C Di PIT B selatan menggunakan Back Analysis Methode

Selama : 3 bulan , mulai tanggal : 09 April 2021
Sampai dengan tanggal : 15 Juli 2021

Penilaian :

1. Perhatian pada pekerjaan dan kerajinan...
2. Disiplin dan tanggungjawab pada pekerjaan
3. Pengetahuan pada bidang yang bersangkutan
4. Inisiatif dan kreatifitas pada perbaikan masalah yg dihadapi
5. Kemauan untuk melakukan sendiri tugas yg diberikan
6. Hubungan kerja
7. Etika / Kepribadian ...
8. Aspek K3L
9.
10.

NILAI						
A	B-r	B	C+	C	D	E

Keterangan

- A = Istimewa
- B+= Baik Sekali
- B = Baik
- C+ = Cukup Baik
- C = Cukup
- D = Kurang (tidak Lulus)
- E = Gagal (tidak Lulus)

Yang Memberi Penilaian

[.....]

(Mohon dikembalikan dalam sampul tertutup & harap di Cap/Stampel Perusahaan)