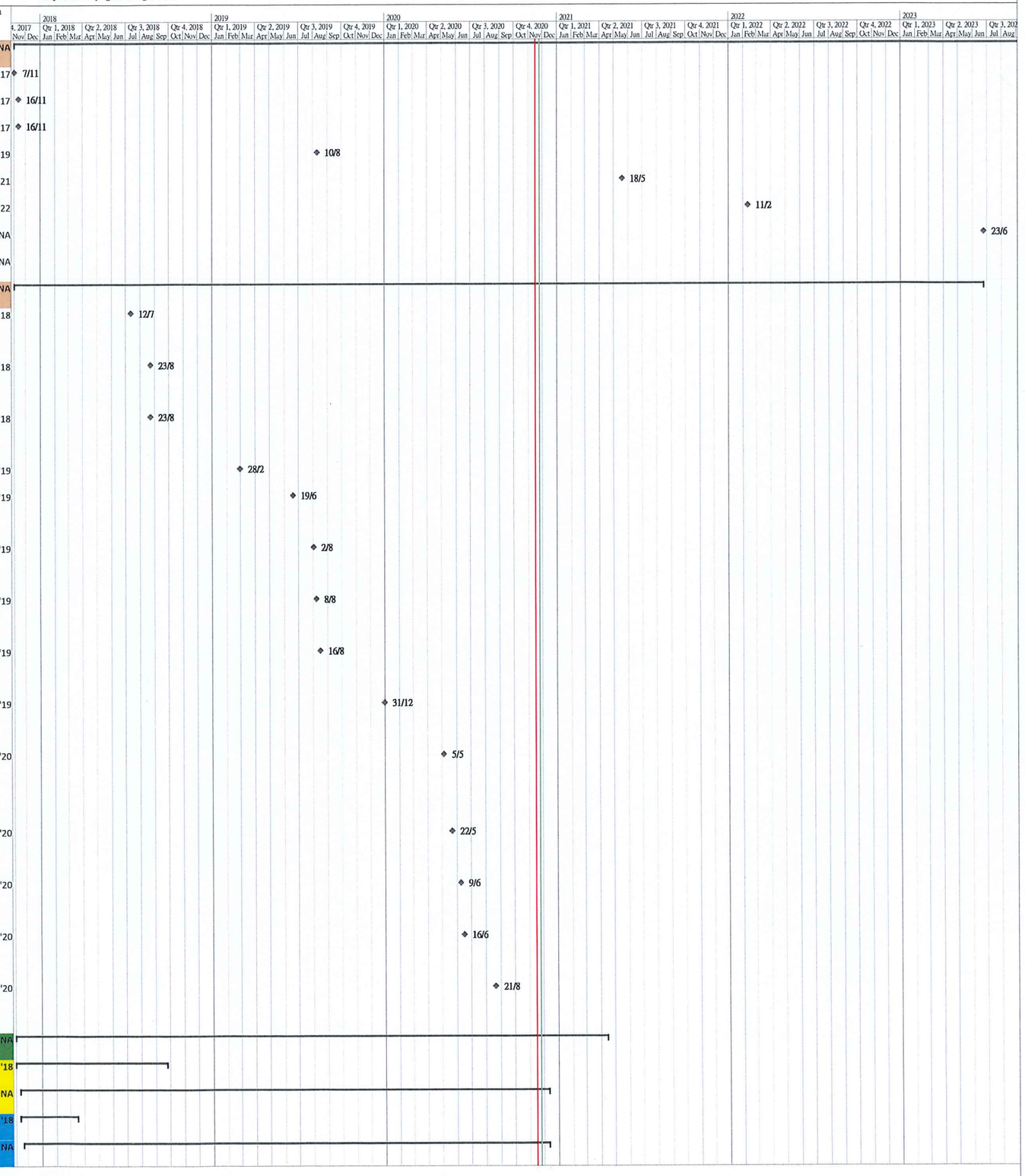
Appendix A

Construction Programme

Project: Mainlaying in Tseung Kwan O

ID	Task Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish
1	**Key Dates**	**2420 days**	**7 Nov '17**	**22 Jun '24**	**Calendar Day**			**0%**	**7 Nov '17**	**NA**
2	Contract Date	0 days	7 Nov '17	7 Nov '17	Calendar Day		36,28,29F:	100%	7 Nov '17	7 Nov '17
3	Starting Date	0 days	16 Nov '17	16 Nov '17	Calendar Day			100%	16 Nov '17	16 Nov '17
4	Access Date of Portion A, B, C, D, E, F and G	0 days	16 Nov '17	16 Nov '17	Calendar Day		59,32,40,4	100%	16 Nov '17	16 Nov '17
5	Access Date of Portion H	0 days	10 Aug '19	10 Aug '19	Calendar Day		582	100%	10 Aug '19	10 Aug '19
6	Completion Date (Contract)	0 days	18 May '21	18 May '21	Calendar Day			100%	18 May '21	18 May '21
7	Revised Completion Date (Including EOT - CE01 & CE23)	0 days	11 Feb '22	11 Feb '22	Calendar Day			100%	11 Feb '22	11 Feb '22
8	Planned Completion	0 days	23 Jun '23	23 Jun '23	Calendar Day	10		0%	NA	NA
9	Defect Date	0 days	22 Jun '24	22 Jun '24	Calendar Day	10FS+365 days		0%	NA	NA
10	**Mainlaying In Tseung Kwan O**	**2055 days**	**7 Nov '17**	**23 Jun '23**	**Calendar Day**		**9FS+365 d**	**35%**	**7 Nov '17**	**NA**
11	Issue CE No. 01 - Change in Pressure Rating of Watermain, Valves and Fittings from PN16 to PN25	0 days	12 Jul '18	12 Jul '18	Calendar Day		37	100%	12 Jul '18	12 Jul '18
12	Issue CE No. 04 - Feasibility Study of Realignment of Pipeline between Po Hung Road and TKO Freshwater PSR	0 days	23 Aug '18	23 Aug '18	Calendar Day			100%	23 Aug '18	23 Aug '18
13	Issue CE No. 05 - Feasibility Study of Realignment of Pipeline at Tseung Kwan O Stage 1 Landfill	0 days	23 Aug '18	23 Aug '18	Calendar Day			100%	23 Aug '18	23 Aug '18
14	Issue CE No. 10 - Contractor Design of The Realignment	0 days	28 Feb '19	28 Feb '19	Calendar Day			100%	28 Feb '19	28 Feb '19
15	Issue CE No. 20 - Traffic Count and Preliminary Traffic Analysis in Po Lam Road and Tsui Lam Road	0 days	19 Jun '19	19 Jun '19	Calendar Day			100%	19 Jun '19	19 Jun '19
16	Issue CE No. 27 - Underground Utilities Detection Survey for Working Pit D (CH. A22+75)	0 days	2 Aug '19	2 Aug '19	Calendar Day			100%	2 Aug '19	2 Aug '19
17	Issue CE No. 21 - Temporary Diversion of Uncharted Underground Utilities near Wan O Road at CH. A16+00 (Pit B)	0 days	8 Aug '19	8 Aug '19	Calendar Day			100%	8 Aug '19	8 Aug '19
18	Issue CE No. 26 - Change in Cathodic Protection System for Mild Steel Pipes	0 days	16 Aug '19	16 Aug '19	Calendar Day		54	100%	16 Aug '19	16 Aug '19
19	Issue CE No. 35 - Feasibility Study on the Alternative Alignment by Trenchless Method in the Wan Po Road J/O Lohas Park Road	0 days	31 Dec '19	31 Dec '19	Calendar Day			100%	31 Dec '19	31 Dec '19
20	Issue CE No. 55 - Design of the Water Mains Structure and Associated Pipe Support across the Natural Stream Course for Alternative Alignment in Tsui Lam	0 days	5 May '20	5 May '20	Calendar Day			100%	5 May '20	5 May '20
21	Issue CE No. 56 - Excavation of Inspection Pits for the Alternative Alignment (Batch No. 2)	0 days	22 May '20	22 May '20	Calendar Day			100%	22 May '20	22 May '20
22	Issue CE No. 64 - Tree Survey at Tsui Lam (Location A and Location B)	0 days	9 Jun '20	9 Jun '20	Calendar Day			100%	9 Jun '20	9 Jun '20
23	Issue CE No. 62 - Design of Pipe Support in Tsui Lam (Location B) .	0 days	16 Jun '20	16 Jun '20	Calendar Day			100%	16 Jun '20	16 Jun '20
24	Issue CE No. 66 - Excavation of Inspection Pits for the Alternative Alignment (Batch No. 3)	0 days	21 Aug '20	21 Aug '20	Calendar Day			100%	21 Aug '20	21 Aug '20
25	**Preliminaries**	**1255 days**	**7 Nov '17**	**14 Apr '21**	**Calendar Day**			**80%**	**7 Nov '17**	**NA**
26	**Submission and Permit Application**	**322 days**	**7 Nov '17**	**24 Sep '18**	**Calendar Day**			**100%**	**7 Nov '17**	**24 Sep '18**
38	**Subcontracting**	**1122 days**	**16 Nov '17**	**11 Dec '20**	**Calendar Day**			**97%**	**16 Nov '17**	**NA**
39	**Submission and Approval**	**122 days**	**16 Nov '17**	**17 Mar '18**	**Calendar Day**			**100%**	**16 Nov '17**	**17 Mar '18**
46	**Subcontractor Selection and Subcontracting**	**1115 days**	**23 Nov '17**	**11 Dec '20**	**Calendar Day**			**97%**	**23 Nov '17**	**NA**

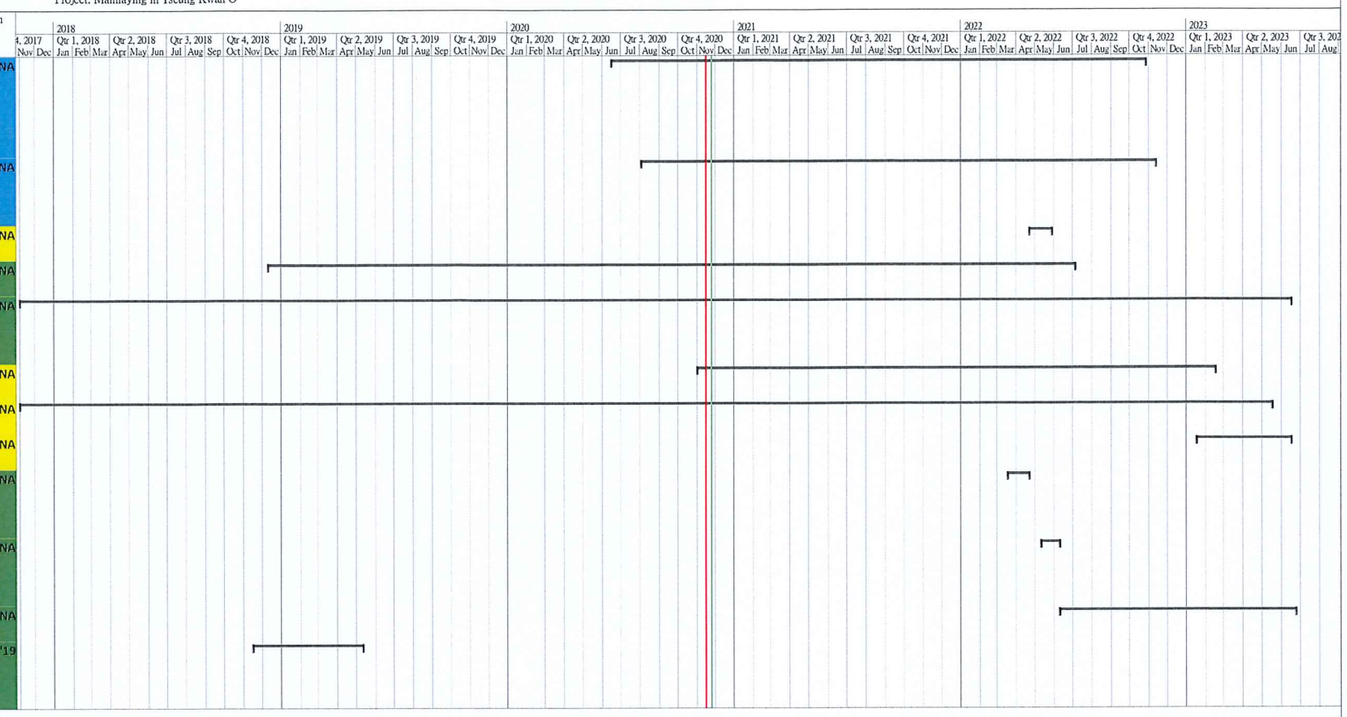


Working Programme No. 11
Data Date : 15 Nov 2020

Task | Split | Milestone | Summary | Project Summary | Inactive Task | Inactive Milestone | Inactive Summary | Manual Task | Duration-only | Manual Summary Rollup | Manual Summary | Start-only | Finish-only | External Tasks | External Milestone | Deadline | Critical | Critical Split | Progress | Manual Progress

Project: Mainlaying in Tseung Kwan O

ID	Task Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish
534	Water Main Structure and Associated Pipe Support from Po Lam Road to Tsui Lam Road (CH. HD0+00 ~ CH. HD1+01)	702 days	16 Jun '20	27 Oct '22	HK Working Day		643	13%	16 Jun '20	NA
555	From Tsui Lam Road to TKO Freshwater PSR (CH. HE.0+00 ~ CH. HE2+00) & (CH.J0+00 CH.J0+57)	677 days	3 Aug '20	12 Nov '22	HK Working Day		643	0%	NA	NA
571	Final Connection to TKO Fresh Water Service Reservoir	30 days	22 Apr '22	28 May '22	HK Working Day			0%	NA	NA
574	Mainlaying in Tseung Kwan O Area 137 (Portion H)	1051 days	11 Dec '18	4 Jul '22	HK Working Day			59%	11 Dec '18	NA
635	DN1200 MS Pipe Static Pressure Test, Pipeline Cleaning, CCTV Inspection, Sterilization and Water Sampling	2048 days	7 Nov '17	16 Jun '23	Calendar Day			0%	NA	NA
636	Static Pressure Test	838 days	1 Nov '20	16 Feb '23	Calendar Day			0%	NA	NA
644	Pipeline Cleaning and CCTV Inspection	2018 days	7 Nov '17	17 May '23	Calendar Day		653FF+30	0%	NA	NA
652	Sterilization and Water Sampling	150 days	18 Jan '23	16 Jun '23	Calendar Day			0%	NA	NA
654	DN800 MS Pipe Static Pressure Test, Pipeline Cleaning, CCTV Inspection, Sterilization and Water Sampling	35 days	18 Mar '22	21 Apr '22	Calendar Day		572,573	0%	NA	NA
658	NS250 HDPE Pipe Static Pressure, Pipeling Cleaning, CCTV Inspection, Sterilization and Water Sampling	30 days	11 May '22	9 Jun '22	Calendar Day			0%	NA	NA
660	Handover Portion I and Portion H to WSD Region	379 days	10 Jun '22	23 Jun '23	Calendar Day			0%	NA	NA
663	Water Supply to Tseung Kwan O Desalination Plant at Fill Bank of Tseung Kwan O Area 137 (Portion J)	141 days	16 Nov '18	11 May '19	HK Working Day			100%	16 Nov '18	11 May '19



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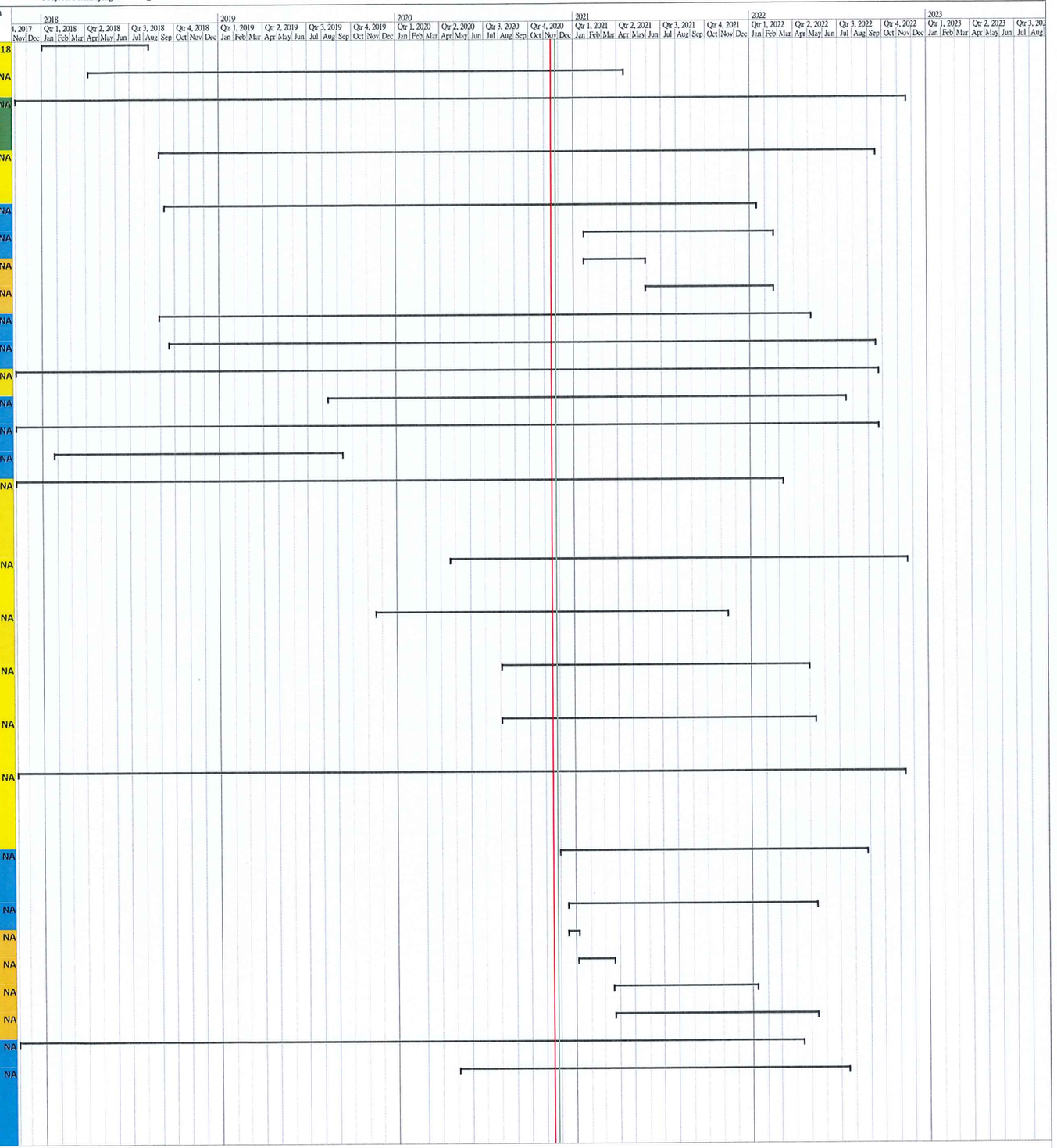
Task | Split | Milestone | Summary | Project Summary | Inactive Task | Inactive Milestone | Inactive Summary | Manual Task | Duration-only | Manual Summary Rollup | Manual Summary | Start-only | Finish-only | External Tasks | External Milestone | Deadline | Critical | Critical Split | Progress | Manual Progress

Project: Mainlaying in Tseung Kwan O

ID	Task Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish
57	Site Establishment	220 days	2 Jan '18	9 Aug '18	Calendar Day			100%	2 Jan '18	9 Aug '18
60	Procurement of Major Material	1104 days	7 Apr '18	14 Apr '21	Calendar Day			54%	7 Apr '18	NA
70	Mainlaying From Boundary of Tseung Kwan O Area 137 to TKO Fresh Water Service Reservoir (Portion I)	1491 days	7 Nov '17	18 Nov '22	HK Working Day			26%	7 Nov '17	NA
71	Open Cut Excavation, Pipe Laying and Reinstatement at Wan Po Road	1198 days	30 Aug '18	15 Sep '22	HK Working Day		638	52%	30 Aug '18	NA
72	Open Cut CH.A0+00 to CH.A3+62 (Pit 1)	992 days	10 Sep '18	14 Jan '22	HK Working Day			66%	10 Sep '18	NA
83	Trenchless Works (Pit 1 to Pit 2)	317 days	22 Jan '21	18 Feb '22	HK Working Day			0%	NA	NA
84	Construction of Jacking / Receiving Pits	100 days	22 Jan '21	28 May '21	HK Working Day			0%	NA	NA
87	TMB Pipe Jacking Pit 1- Pit 2	217 days	29 May '21	18 Feb '22	HK Working Day		99	0%	NA	NA
98	Open Cut CH.A5+29.5 (Pit 2) to CH.A7+12	1088 days	30 Aug '18	5 May '22	HK Working Day			73%	30 Aug '18	NA
108	Open Cut CH.A7+12 to CH.A13+79.5	1181 days	19 Sep '18	15 Sep '22	HK Working Day			47%	19 Sep '18	NA
132	Trenchless Work at Wan Po Road From Pit A to Pit F	1443 days	7 Nov '17	21 Sep '22	HK Working Day		639	24%	7 Nov '17	NA
133	Trenchless Works (Pit A to Pit C)	867 days	12 Aug '19	16 Jul '22	HK Working Day			17%	12 Aug '19	NA
164	Crossing Wan Po Road and Lohas Park Road	1780 days	7 Nov '17	21 Sep '22	Calendar Day			7%	7 Nov '17	NA
227	Miscellaneous	594 days	25 Jan '18	10 Sep '19	Calendar Day			80%	25 Jan '18	NA
230	Open Cut Excavation, Pipe Laying and Reinstatement at TKO Landfill Stage 1 and TKO South Waterfront Promenade	1283 days	7 Nov '17	8 Mar '22	HK Working Day		640	54%	7 Nov '17	NA
289	Burned Pipe, Exposed Pipe, Trenchless Works From Loi Avenue to Po Yap Road Roundabout	768 days	20 Apr '20	18 Nov '22	HK Working Day		641	7%	20 Apr '20	NA
347	Trenchless Work from Po Yap Road Roundabout to KMB Depot (Pit K to Pit P)	590 days	18 Nov '19	13 Nov '21	HK Working Day		642	37%	18 Nov '19	NA
428	Trenchless Work from KMB Depot to Po Hong Road (Pit P to Pit R)	515 days	3 Aug '20	29 Apr '22	HK Working Day		642	25%	3 Aug '20	NA
452	Open Trench from Pit R to Pit S & Trenchless Works from Pit S to Pit T	524 days	3 Aug '20	12 May '22	HK Working Day		642	1%	3 Aug '20	NA
471	Open Cut Excavation, Pipe Laying and Reinstatement at Abandoned Road / Mau Wu Tsai Village / Po Lam Road North	1486 days	7 Nov '17	12 Nov '22	HK Working Day			6%	7 Nov '17	NA
472	Open Trench Pipelaying at Abandoned Road & Mau Wu Tsai Village	513 days	30 Nov '20	25 Aug '22	HK Working Day		642	0%	NA	NA
475	Trenchless Work at Mau Wu Tsui Village	412 days	16 Dec '20	13 May '22	HK Working Day		642	0%	NA	NA
476	Inspection Pit Excavation	16 days	16 Dec '20	6 Jan '21	HK Working Day			0%	NA	NA
481	Construction of Jacking / Receiving Pits	62 days	5 Jan '21	20 Mar '21	HK Working Day			0%	NA	NA
486	Hand Shield Pipe Jacking from Pit U to Pit V (~30m)	241 days	19 Mar '21	10 Jan '22	HK Working Day			0%	NA	NA
498	Hand Shield Pipe Jacking from Pit W to Pit X (~85m)	336 days	22 Mar '21	13 May '22	HK Working Day			0%	NA	NA
510	Open Trench Pipe Laying at Po Lam Road North	1314 days	7 Nov '17	14 Apr '22	HK Working Day		643	0%	NA	NA
513	Water Main Structure and Associated Pipe Support across the Natural Stream Course (CH. HB0+00 ~ CH.HB0+94)	653 days	5 May '20	16 Jul '22	HK Working Day		643	19%	5 May '20	NA



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Task | Split | Milestone | Summary | Project Summary | Inactive Task | Inactive Milestone | Inactive Summary | Manual Task | Duration-only | Manual Summary Rollup | Manual Summary | Start-only | Finish-only | External Tasks | External Milestone | Deadline | Critical | Critical Split | Progress | Manual Progress

Project: Mainlaying in Tseung Kwan O

ID	Task Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish
1	**Key Dates**	**2420 days**	**7 Nov '17**	**22 Jun '24**	**Calendar Day**			**0%**	**7 Nov '17**	**NA**
2	Contract Date	0 days	7 Nov '17	7 Nov '17	Calendar Day		36,28,29F!	100%	7 Nov '17	7 Nov '17
3	Starting Date	0 days	16 Nov '17	16 Nov '17	Calendar Day			100%	16 Nov '17	16 Nov '17
4	Access Date of Portion A, B, C, D, E, F and G	0 days	16 Nov '17	16 Nov '17	Calendar Day		59,32,40,4	100%	16 Nov '17	16 Nov '17
5	Access Date of Portion H	0 days	10 Aug '19	10 Aug '19	Calendar Day		582	100%	10 Aug '19	10 Aug '19
6	Completion Date (Contract)	0 days	18 May '21	18 May '21	Calendar Day			100%	18 May '21	18 May '21
7	Revised Completion Date (Including EOT - CE01 & CE23)	0 days	11 Feb '22	11 Feb '22	Calendar Day			100%	11 Feb '22	11 Feb '22
8	Planned Completion	0 days	23 Jun '23	23 Jun '23	Calendar Day	10		0%	NA	NA
9	Defect Date	0 days	22 Jun '24	22 Jun '24	Calendar Day	10FS+365 days		0%	NA	NA
10	**Mainlaying In Tseung Kwan O**	**2055 days**	**7 Nov '17**	**23 Jun '23**	**Calendar Day**		**9FS+365 d**	**35%**	**7 Nov '17**	**NA**
11	Issue CE No. 01 - Change in Pressure Rating of Watermain, Valves and Fittings from PN16 to PN25	0 days	12 Jul '18	12 Jul '18	Calendar Day		37	100%	12 Jul '18	12 Jul '18
12	Issue CE No. 04 - Feasibility Study of Realignment of Pipeline between Po Hung Road and TKO Freshwater PSR	0 days	23 Aug '18	23 Aug '18	Calendar Day			100%	23 Aug '18	23 Aug '18
13	Issue CE No. 05 - Feasibility Study of Realignment of Pipeline at Tseung Kwan O Stage 1 Landfill	0 days	23 Aug '18	23 Aug '18	Calendar Day			100%	23 Aug '18	23 Aug '18
14	Issue CE No. 10 - Contractor Design of The Realignment	0 days	28 Feb '19	28 Feb '19	Calendar Day			100%	28 Feb '19	28 Feb '19
15	Issue CE No. 20 - Traffic Count and Preliminary Traffic Analysis in Po Lam Road and Tsui Lam Road	0 days	19 Jun '19	19 Jun '19	Calendar Day			100%	19 Jun '19	19 Jun '19
16	Issue CE No. 27 - Underground Utilities Detection Survey for Working Pit D (CH. A22+75)	0 days	2 Aug '19	2 Aug '19	Calendar Day			100%	2 Aug '19	2 Aug '19
17	Issue CE No. 21 - Temporary Diversion of Uncharted Underground Utilities near Wan O Road at CH. A16+00 (Pit B)	0 days	8 Aug '19	8 Aug '19	Calendar Day			100%	8 Aug '19	8 Aug '19
18	Issue CE No. 26 - Change in Cathodic Protection System for Mild Steel Pipes	0 days	16 Aug '19	16 Aug '19	Calendar Day		54	100%	16 Aug '19	16 Aug '19
19	Issue CE No. 35 - Feasibility Study on the Alternative Alignment by Trenchless Method in the Wan Po Road J/O Lohas Park Road	0 days	31 Dec '19	31 Dec '19	Calendar Day			100%	31 Dec '19	31 Dec '19
20	Issue CE No. 55 - Design of the Water Mains Structure and Associated Pipe Support across the Natural Stream Course for Alternative Alignment in Tsui Lam	0 days	5 May '20	5 May '20	Calendar Day			100%	5 May '20	5 May '20
21	Issue CE No. 56 - Excavation of Inspection Pits for the Alternative Alignment (Batch No. 2)	0 days	22 May '20	22 May '20	Calendar Day			100%	22 May '20	22 May '20
22	Issue CE No. 64 - Tree Survey at Tsui Lam (Location A and Location B)	0 days	9 Jun '20	9 Jun '20	Calendar Day			100%	9 Jun '20	9 Jun '20
23	Issue CE No. 62 - Design of Pipe Support in Tsui Lam (Location B) .	0 days	16 Jun '20	16 Jun '20	Calendar Day			100%	16 Jun '20	16 Jun '20
24	Issue CE No. 66 - Excavation of Inspection Pits for the Alternative Alignment (Batch No. 3)	0 days	21 Aug '20	21 Aug '20	Calendar Day			100%	21 Aug '20	21 Aug '20
25	**Preliminaries**	**1255 days**	**7 Nov '17**	**14 Apr '21**	**Calendar Day**			**80%**	**7 Nov '17**	**NA**
26	**Submission and Permit Application**	**322 days**	**7 Nov '17**	**24 Sep '18**	**Calendar Day**			**100%**	**7 Nov '17**	**24 Sep '18**
27	Submission of Safety Plan	35 days	7 Nov '17	11 Dec '17	Calendar Day	2		100%	7 Nov '17	11 Dec '17
28	Submission of Site Management Plan and Trip Ticket	45 days	7 Nov '17	21 Dec '17	Calendar Day	2		100%	7 Nov '17	21 Dec '17
29	Submission of Key People	14 days	4 Dec '17	17 Dec '17	Calendar Day	2FS+27 days		100%	4 Dec '17	17 Dec '17
30	Submission of Subcontractor Management Plan	30 days	7 Nov '17	6 Dec '17	Calendar Day	2		100%	7 Nov '17	6 Dec '17
31	Submission of First Programme	7 days	7 Nov '17	13 Nov '17	Calendar Day	2		100%	7 Nov '17	13 Nov '17
32	Submission of Pipe Material (PN16)	54 days	1 Feb '18	27 Mar '18	Calendar Day	4	33	100%	1 Feb '18	27 Mar '18
33	Approval of Pipe material submission (PN16)	137 days	28 Mar '18	11 Aug '18	Calendar Day	32	61SS+7 da	100%	28 Mar '18	11 Aug '18
34	Appointment of Environmental Team	10 days	9 May '18	18 May '18	Calendar Day	50	35	100%	9 May '18	18 May '18
35	Environmental Baseline Monitoring	17 days	29 May '18	14 Jun '18	Calendar Day	34		100%	29 May '18	14 Jun '18
36	Submission of Environmental Management Plan	45 days	7 Nov '17	21 Dec '17	Calendar Day	2		100%	7 Nov '17	21 Dec '17
37	Submission & Approval of CE01 Pipe Material PN25	75 days	12 Jul '18	24 Sep '18	Calendar Day	11	65	100%	12 Jul '18	24 Sep '18
38	**Subcontracting**	**1122 days**	**16 Nov '17**	**11 Dec '20**	**Calendar Day**			**97%**	**16 Nov '17**	**NA**
39	**Submission and Approval**	**122 days**	**16 Nov '17**	**17 Mar '18**	**Calendar Day**			**100%**	**16 Nov '17**	**17 Mar '18**
40	Submission of sub-contractor selection procedure	24 days	16 Nov '17	9 Dec '17	Calendar Day	4	41	100%	16 Nov '17	9 Dec '17
41	Approval of sub-contractor selection procedure	42 days	10 Dec '17	20 Jan '18	Calendar Day	40	56,51,52F!	100%	10 Dec '17	20 Jan '18
42	Submission of Sub-contractor Condition	14 days	21 Jan '18	3 Feb '18	Calendar Day	4	43	100%	21 Jan '18	3 Feb '18
43	Approval of Sub-contractor Condition	42 days	4 Feb '18	17 Mar '18	Calendar Day	42	56,51,52F!	100%	4 Feb '18	17 Mar '18
44	Submission of Supplier Selection Procedure	75 days	16 Nov '17	29 Jan '18	Calendar Day	4	45	100%	16 Nov '17	29 Jan '18
45	Approval of Supplier Selection Procedure	42 days	30 Jan '18	12 Mar '18	Calendar Day	44	61	100%	30 Jan '18	12 Mar '18
46	**Subcontractor Selection and Subcontracting**	**1115 days**	**23 Nov '17**	**11 Dec '20**	**Calendar Day**			**97%**	**23 Nov '17**	**NA**
47	Traffic Consultant for Investigation Works	30 days	23 Nov '17	22 Dec '17	Calendar Day	4		100%	23 Nov '17	22 Dec '17
48	Consultancy: Landscape for Investigation works	30 days	5 Jan '18	3 Feb '18	Calendar Day	4	228	100%	5 Jan '18	3 Feb '18
49	Consultancy: Traffic consultant	55 days	21 Feb '18	16 Apr '18	Calendar Day			100%	21 Feb '18	16 Apr '18
50	Environmental Team	9 days	16 Apr '18	24 Apr '18	Calendar Day		34	100%	16 Apr '18	24 Apr '18
51	Temporary site office, hoarding & project sign board	75 days	22 Mar '18	4 Jun '18	Calendar Day	43,41	58FS+13 d	100%	22 Mar '18	4 Jun '18
52	Consultancy: Independent Checking Engineer	12 days	14 May '18	25 May '18	Calendar Day	41FS+10 days,43		100%	14 May '18	25 May '18
53	Survey Services	23 days	26 Sep '18	18 Oct '18	Calendar Day			100%	26 Sep '18	18 Oct '18

Working Programme No. 11
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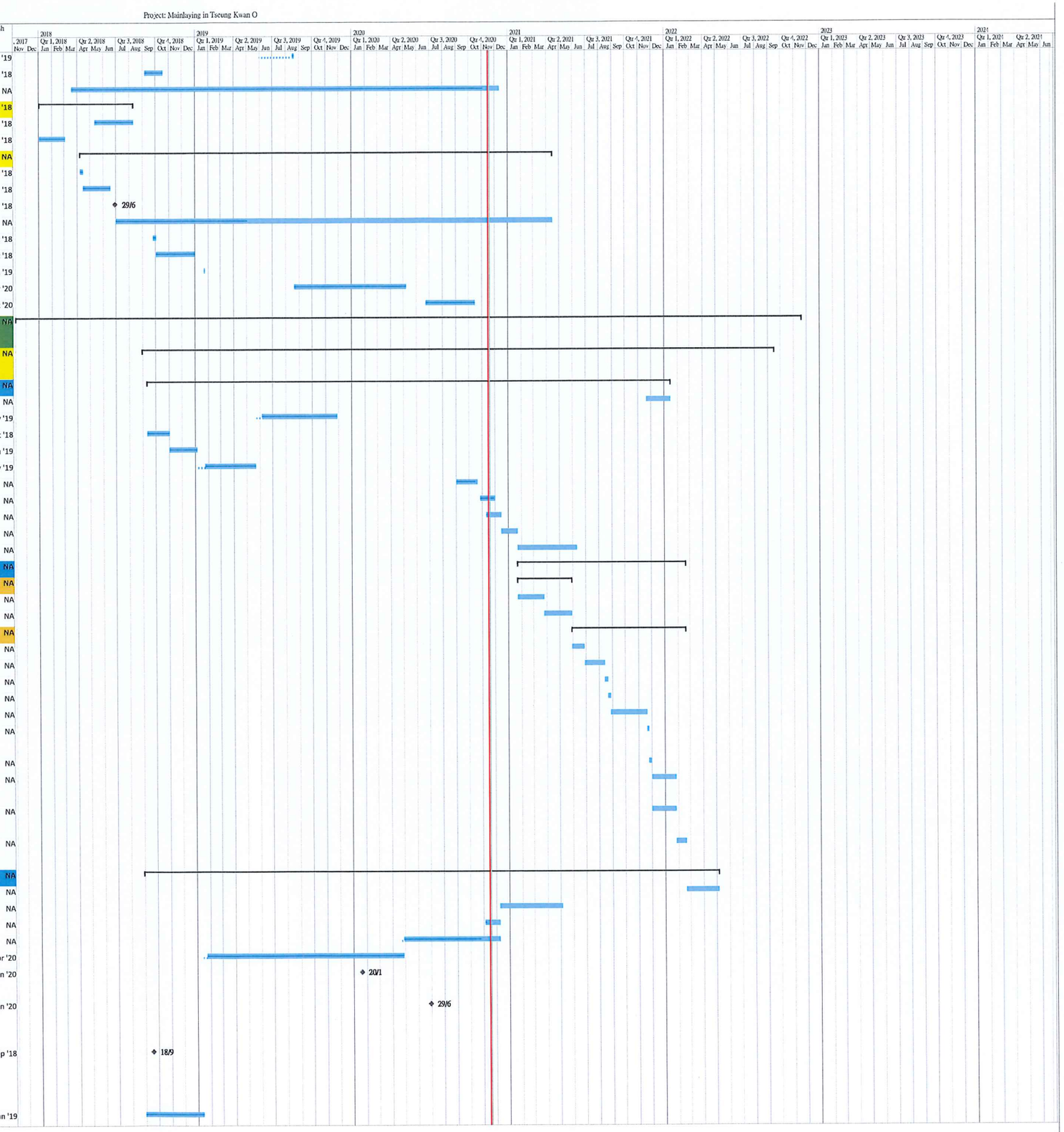
Project: Mainlaying in Tseung Kwan O

ID	Task Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish
54	Sacrificial Anode Cathodic Protection (SACP)	82 days	30 May '19	19 Aug '19	Calendar Day	18	68	100%	30 May '19	19 Aug '19
55	Landscaping Works	42 days	6 Sep '18	17 Oct '18	Calendar Day	41,43		100%	6 Sep '18	17 Oct '18
56	Miscellaneous	1000 days	18 Mar '18	11 Dec '20	Calendar Day	43,41		96%	18 Mar '18	NA
57	Site Establishment	220 days	2 Jan '18	9 Aug '18	Calendar Day			100%	2 Jan '18	9 Aug '18
58	Setting up PM's and Contractor Accommodation	90 days	12 May '18	9 Aug '18	Calendar Day	51FS+13 days		100%	12 May '18	9 Aug '18
59	Initial Survey of the Site	60 days	2 Jan '18	2 Mar '18	Calendar Day	4		100%	2 Jan '18	2 Mar '18
60	Procurement of Major Material	1104 days	7 Apr '18	14 Apr '21	Calendar Day			54%	7 Apr '18	NA
61	Preparation of Purchase Order	7 days	7 Apr '18	13 Apr '18	Calendar Day	33SS+7 days,45	62	100%	7 Apr '18	13 Apr '18
62	1st Batch of Material Delivery	65 days	14 Apr '18	17 Jun '18	Calendar Day	61	63	100%	14 Apr '18	17 Jun '18
63	1st Batch of Material Delivery on site	0 days	29 Jun '18	29 Jun '18	Calendar Day	62	64	100%	29 Jun '18	29 Jun '18
64	Material Delivery by Batches	1020 days	30 Jun '18	14 Apr '21	Calendar Day	63		30%	30 Jun '18	NA
65	Preparation of CE01 Purchase Order	7 days	25 Sep '18	1 Oct '18	Calendar Day	37	66	100%	25 Sep '18	1 Oct '18
66	1st Batch of CE01 Material Delivery	90 days	2 Oct '18	30 Dec '18	Calendar Day	65	67	100%	2 Oct '18	30 Dec '18
67	1st Batch of CE01 Material Delivery on site	1 day	22 Jan '19	22 Jan '19	Calendar Day	66		100%	22 Jan '19	22 Jan '19
68	SCAP Material Submission and Approval	261 days	20 Aug '19	6 May '20	Calendar Day	54	69	100%	20 Aug '19	6 May '20
69	SCAP Purchase Order & Material Delivery	115 days	22 Jun '20	14 Oct '20	Calendar Day	68		100%	22 Jun '20	14 Oct '20
70	Mainlaying From Boundary of Tseung Kwan O Area 137 to TKO Fresh Water Service Reservoir (Portion I)	1491 days	7 Nov '17	18 Nov '22	HK Working Day			26%	7 Nov '17	NA
71	Open Cut Excavation, Pipe Laying and Reinstatement at Wan Po Road	1198 days	30 Aug '18	15 Sep '22	HK Working Day		638	52%	30 Aug '18	NA
72	Open Cut CH.A0+00 to CH.A3+62 (Pit 1)	992 days	10 Sep '18	14 Jan '22	HK Working Day			66%	10 Sep '18	NA
73	CH. A0+00 - 0+14 OC	45 days	20 Nov '21	14 Jan '22	HK Working Day	609		0%	NA	NA
74	CH. A0+14 - 0+50 OC	156 days	23 May '19	26 Nov '19	HK Working Day			100%	23 May '19	26 Nov '19
75	CH. A0+50 - 1+50 OC	42 days	10 Sep '18	31 Oct '18	HK Working Day			100%	10 Sep '18	31 Oct '18
76	CH. A1+50 - 1+60 OC	53 days	1 Nov '18	4 Jan '19	HK Working Day			100%	1 Nov '18	4 Jan '19
77	CH. A1+60 - 2+14 OC	107 days	5 Jan '19	20 May '19	HK Working Day			100%	5 Jan '19	20 May '19
78	CH. A2+14 - 2+30 OC	40 days	1 Sep '20	19 Oct '20	HK Working Day			90%	1 Sep '20	NA
79	CH. A2+30 - 2+46 OC	30 days	27 Oct '20	30 Nov '20	HK Working Day			90%	27 Oct '20	NA
80	CH. A2+46 - 2+62 OC	30 days	10 Nov '20	14 Dec '20	HK Working Day		81	5%	10 Nov '20	NA
81	CH. A2+62 - 2+98 OC	30 days	15 Dec '20	21 Jan '21	HK Working Day	80	82	0%	NA	NA
82	CH. A2+98 - 3+62 OC with DN150 DAV	110 days	22 Jan '21	9 Jun '21	HK Working Day	81	85SS	0%	NA	NA
83	Trenchless Works (Pit 1 to Pit 2)	317 days	22 Jan '21	18 Feb '22	HK Working Day			0%	NA	NA
84	Construction of Jacking / Receiving Pits	100 days	22 Jan '21	28 May '21	HK Working Day			0%	NA	NA
85	CH. A3+62 - Pit 1	50 days	22 Jan '21	24 Mar '21	HK Working Day	82SS	88,86	0%	NA	NA
86	CH. A5+29.5 - Pit 2	50 days	25 Mar '21	28 May '21	HK Working Day	85	88	0%	NA	NA
87	TMB Pipe Jacking Pit 1- Pit 2	217 days	29 May '21	18 Feb '22	HK Working Day		99	0%	NA	NA
88	TBM Establishment	24 days	29 May '21	26 Jun '21	HK Working Day	85,86	89	0%	NA	NA
89	TBM Jacking Sleeve Pipe (L=180m, 4.5m/day)	40 days	28 Jun '21	13 Aug '21	HK Working Day	88	90	0%	NA	NA
90	Remove Setup including Thrust Wall	6 days	14 Aug '21	20 Aug '21	HK Working Day	89	91	0%	NA	NA
91	Setup Guard Rail	6 days	21 Aug '21	27 Aug '21	HK Working Day	90	92	0%	NA	NA
92	Pipe Laying inside Sleeve Pipe (8m pipe, 3 days per	69 days	28 Aug '21	19 Nov '21	HK Working Day	91	93	0%	NA	NA
93	Formwork & Setup for Grouting the Gap between Pipe and Sleeve	3 days	20 Nov '21	23 Nov '21	HK Working Day	92	94	0%	NA	NA
94	Grouting Works (30m/day)	6 days	24 Nov '21	30 Nov '21	HK Working Day	93	95,96	0%	NA	NA
95	Construction of Combined Inspection and Washout Chamber Type I at Pit 1	45 days	1 Dec '21	25 Jan '22	HK Working Day	94	97	0%	NA	NA
96	Construction of Combined Inspection and Washout Chamber Type I at Pit 2	45 days	1 Dec '21	25 Jan '22	HK Working Day	94	97	0%	NA	NA
97	Backfill, Remove ELS and Road Reinstatement at Pit 1 & pit 2	18 days	26 Jan '22	18 Feb '22	HK Working Day	95,96		0%	NA	NA
98	Open Cut CH.A5+29.5 (Pit 2) to CH.A7+12	1088 days	30 Aug '18	5 May '22	HK Working Day			73%	30 Aug '18	NA
99	CH. A5+29.5 - 5+88 OC	60 days	19 Feb '22	5 May '22	HK Working Day	100,87		0%	NA	NA
100	CH. A5+88 - 6+12 OC + DN300 Washout Pump Pit	115 days	9 Dec '20	4 May '21	HK Working Day	101	99	0%	NA	NA
101	CH. A6+12 - 6+20 OC	30 days	4 Nov '20	8 Dec '20	HK Working Day		100,116	10%	4 Nov '20	NA
102	CH. A6+20 - 6+54 OC	191 days	22 Apr '20	8 Dec '20	HK Working Day	103	116	80%	22 Apr '20	NA
103	CH. A6+54 - 6+70 OC + Handshield	378 days	14 Jan '19	26 Apr '20	HK Working Day		102	100%	14 Jan '19	26 Apr '20
104	Issue CE No. 22 - Instruction to Change in Mainlaying Method t Wan Po Road between CH.6+54 and A6+61	0 days	20 Jan '20	20 Jan '20	Calendar Day			100%	20 Jan '20	20 Jan '20
105	Issue CE No. 25 - Unforeseen Underground Conditions during Trench Excavation at Wan Po Road between CH. A6+68 and CH. A6+88	0 days	29 Jun '20	29 Jun '20	Calendar Day			100%	29 Jun '20	29 Jun '20
106	EWN No. 14 (covered by CNE No. 8 & CE No.06) - Unforeseen Underground Condition During Trench Excavation for Mainlaying at Wan Po Road Between CH.A6+90 and CH.A7+10	0 days	18 Sep '18	18 Sep '18	Calendar Day			100%	18 Sep '18	18 Sep '18
107	CH. A6+70 - 7+12 OC	111 days	30 Aug '18	12 Jan '19	HK Working Day			100%	30 Aug '18	12 Jan '19



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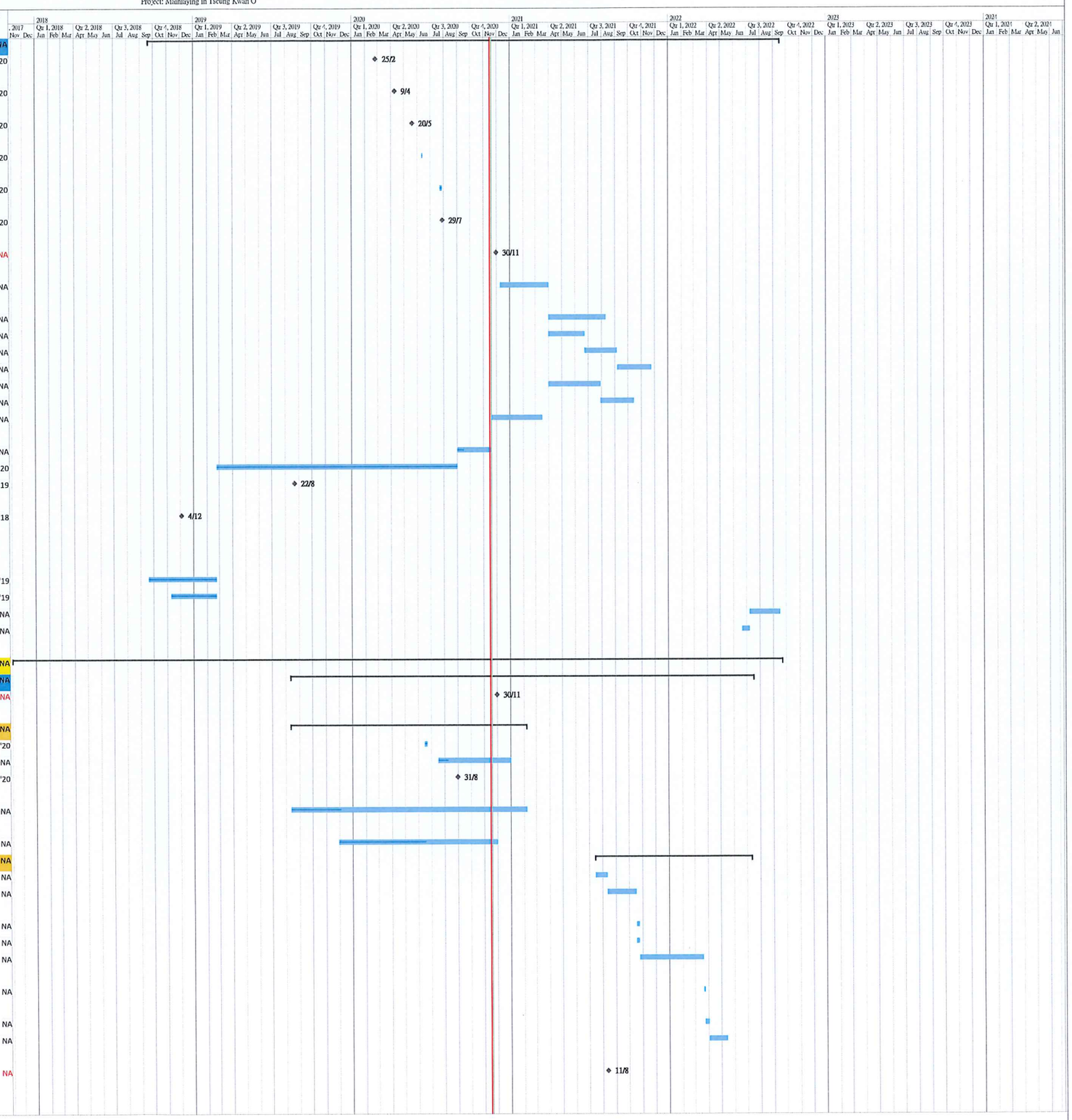
Task | Split | Milestone | Summary | Project Summary | Inactive Task | Inactive Milestone | Inactive Summary | Manual Task | Duration-only | Manual Summary Rollup | Manual Summary | Start-only | Finish-only | External Tasks | External Milestone | Deadline | Critical | Critical Split | Progress | Manual Progress

Project: Mainlaying in Tseung Kwan O

ID	Task Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish
108	Open Cut CH.A7+12 to CH.A13+79.5	1181 days	19 Sep '18	15 Sep '22	HK Working Day			47%	19 Sep '18	NA
109	EWN No. 108 - TTA Implementation outside the entrance gate of Green Valley Landfill	0 days	25 Feb '20	25 Feb '20	Calendar Day			100%	25 Feb '20	25 Feb '20
110	EWN No. 108 - TTA Implementation outside the entrance gate of Green Valley Landfill	0 days	9 Apr '20	9 Apr '20	Calendar Day			100%	9 Apr '20	9 Apr '20
111	EWN No. 159 - Confimation of Revised Pipe Alignment outside the Entrance Gate of Green Valley Landfill	0 days	20 May '20	20 May '20	Calendar Day			100%	20 May '20	20 May '20
112	EWN No. 173 - Additional Inspection Pit at Wan Po Road Northbound outside the Entrance Gate of Green Valley Lanfill	1 day	11 Jun '20	11 Jun '20	Calendar Day			100%	11 Jun '20	11 Jun '20
113	Batch No. 3 - Inspection Pit Excavation at the footpath of Wan Po Road near Green Valley Landfill Entrance	4 days	23 Jul '20	27 Jul '20	HK Working Day			100%	23 Jul '20	27 Jul '20
114	EWN No. 189 - Inspection Pit on Footpath at Wan Po Road Northbound outside the Entrance Gate of Green Valley Lanfill	0 days	29 Jul '20	29 Jul '20	Calendar Day		115	100%	29 Jul '20	29 Jul '20
115	Expected CE No XX - Change to Trenchless Method near the entrance of Green Valley Landfill	0 days	30 Nov '20	30 Nov '20	Calendar Day	114		0%	NA	NA
116	CH. A7+12 - 7+64 OC with DN600 IT & DN900 Valve Chamber	90 days	9 Dec '20	30 Mar '21	HK Working Day	102,101	118,117,1:	0%	NA	NA
117	CH. A7+64 - 8+28 Trenchless (Handshield)	105 days	31 Mar '21	9 Aug '21	HK Working Day	116		0%	NA	NA
118	CH. A8+28 - 8+60 OC with DN150 DAV	64 days	31 Mar '21	21 Jun '21	HK Working Day	116	119	0%	NA	NA
119	CH. A8+60 - 9+24 OC	64 days	22 Jun '21	4 Sep '21	HK Working Day	118	120	0%	NA	NA
120	CH. A9+24 - 9+88 OC	64 days	6 Sep '21	22 Nov '21	HK Working Day	119		0%	NA	NA
121	CH. A9+88 - 10+52 OC with DN600 IT	95 days	31 Mar '21	28 Jul '21	HK Working Day	116	122	0%	NA	NA
122	CH. A10+52 - 11+16 OC	64 days	29 Jul '21	13 Oct '21	HK Working Day	121		0%	NA	NA
123	CH. A11+16 - 11+80 OC with DN300 Washout Pump Pit t & DN150 DAV	95 days	18 Nov '20	15 Mar '21	HK Working Day	124		0%	NA	NA
124	CH. A11+80 - 12+12 OC with DN600 IT	64 days	1 Sep '20	17 Nov '20	HK Working Day	125	123	20%	1 Sep '20	NA
125	CH. A12+12 - 12+50 OC with DN900 Valve Chamber	451 days	23 Feb '19	31 Aug '20	HK Working Day		124	100%	23 Feb '19	31 Aug '20
126	Issue CE No. 19 - Change in Design of Gate Valve Chamber at Wan Po Road near CH. A12+40	0 days	22 Aug '19	22 Aug '19	Calendar Day			100%	22 Aug '19	22 Aug '19
127	EWN No.23 (Covered by CNE No.16 & CE No. 18) - Unforeseen Ground Conditions at Open Trench of Mainlaying at Wan Po Road between CH.A12+89 and CH.A13+04	0 days	4 Dec '18	4 Dec '18	Calendar Day			100%	4 Dec '18	4 Dec '18
128	CH. A12+50 - 12+95 OC	125 days	19 Sep '18	21 Feb '19	HK Working Day			100%	19 Sep '18	21 Feb '19
129	CH. A12+95 - 13+13 OC	84 days	9 Nov '18	21 Feb '19	HK Working Day		130	100%	9 Nov '18	21 Feb '19
130	CH. A13+13 - 13+40 OC + DN150 DAV	60 days	7 Jul '22	15 Sep '22	HK Working Day	131,129		0%	NA	NA
131	CH. A13+40 - 13+60 OC & Connection from Open Cut Trench to Jacking Pit A	14 days	20 Jun '22	6 Jul '22	HK Working Day	151	130	0%	NA	NA
132	Trenchless Work at Wan Po Road From Pit A to Pit F	1443 days	7 Nov '17	21 Sep '22	HK Working Day		639	24%	7 Nov '17	NA
133	Trenchless Works (Pit A to Pit C)	867 days	12 Aug '19	16 Jul '22	HK Working Day			17%	12 Aug '19	NA
134	Expected CE No. 52 - Relocation of Working pits for Trenchless Works in Wan Po Road (Pit A to Pit C)	0 days	30 Nov '20	30 Nov '20	Calendar Day			0%	NA	NA
135	Construction of Jacking / Receiving Pits	445 days	12 Aug '19	6 Feb '21	HK Working Day			32%	12 Aug '19	NA
136	Removal of Existing Planter for Jacking Pit A	6 days	15 Jun '20	20 Jun '20	HK Working Day		137	100%	15 Jun '20	20 Jun '20
137	Jacking Pit A	139 days	17 Jul '20	31 Dec '20	HK Working Day	136		14%	17 Jul '20	NA
138	Issue CE No. 32 - Additional Ground Treatment Works in Pit B in Wan Po Road near Wan O Road	0 days	31 Aug '20	31 Aug '20	Calendar Day			100%	31 Aug '20	31 Aug '20
139	Jacking / Receiving Pit B with additional ground grouting works	445 days	12 Aug '19	6 Feb '21	HK Working Day		154	21%	12 Aug '19	NA
140	Receiving Pit C	298 days	29 Nov '19	30 Nov '20	HK Working Day			54%	29 Nov '19	NA
141	TBM Pipe Jacking (Pit A to Pit B)	293 days	15 Jul '21	11 Jul '22	HK Working Day			0%	NA	NA
142	Establishment at Pit A	24 days	15 Jul '21	11 Aug '21	HK Working Day	156	143,150	0%	NA	NA
143	Jacking DN1600 Precast Concrete Sleeve Pipe (Pit A - Pit B) (L=240m; 4.5m/day)	54 days	12 Aug '21	16 Oct '21	HK Working Day	142,156	144,145	0%	NA	NA
144	Remove setup including thrust wall at Pit A	6 days	18 Oct '21	23 Oct '21	HK Working Day	143		0%	NA	NA
145	Setup for Pipe Laying inside Jacking Pit B	6 days	18 Oct '21	23 Oct '21	HK Working Day	143	146	0%	NA	NA
146	DN1200 MS Pipe Laying inside jacking pipe (240m) (2 days per 4m)(Only Internat Coating)	120 days	25 Oct '21	19 Mar '22	HK Working Day	145	147	0%	NA	NA
147	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	21 Mar '22	23 Mar '22	HK Working Day	146	148	0%	NA	NA
148	Grouting Works (30 meter/day)	8 days	24 Mar '22	1 Apr '22	HK Working Day	147	162,149	0%	NA	NA
149	Pipe Laying bends and thrust block construction inside Jacking Pit A	30 days	2 Apr '22	13 May '22	HK Working Day	148	151	0%	NA	NA
150	Expected CE No. XX - Special Type of Chamber for interface between Trencless Works and Open Cut Work near Jacking Pit A	0 days	11 Aug '21	11 Aug '21	Calendar Day	142	151	0%	NA	NA



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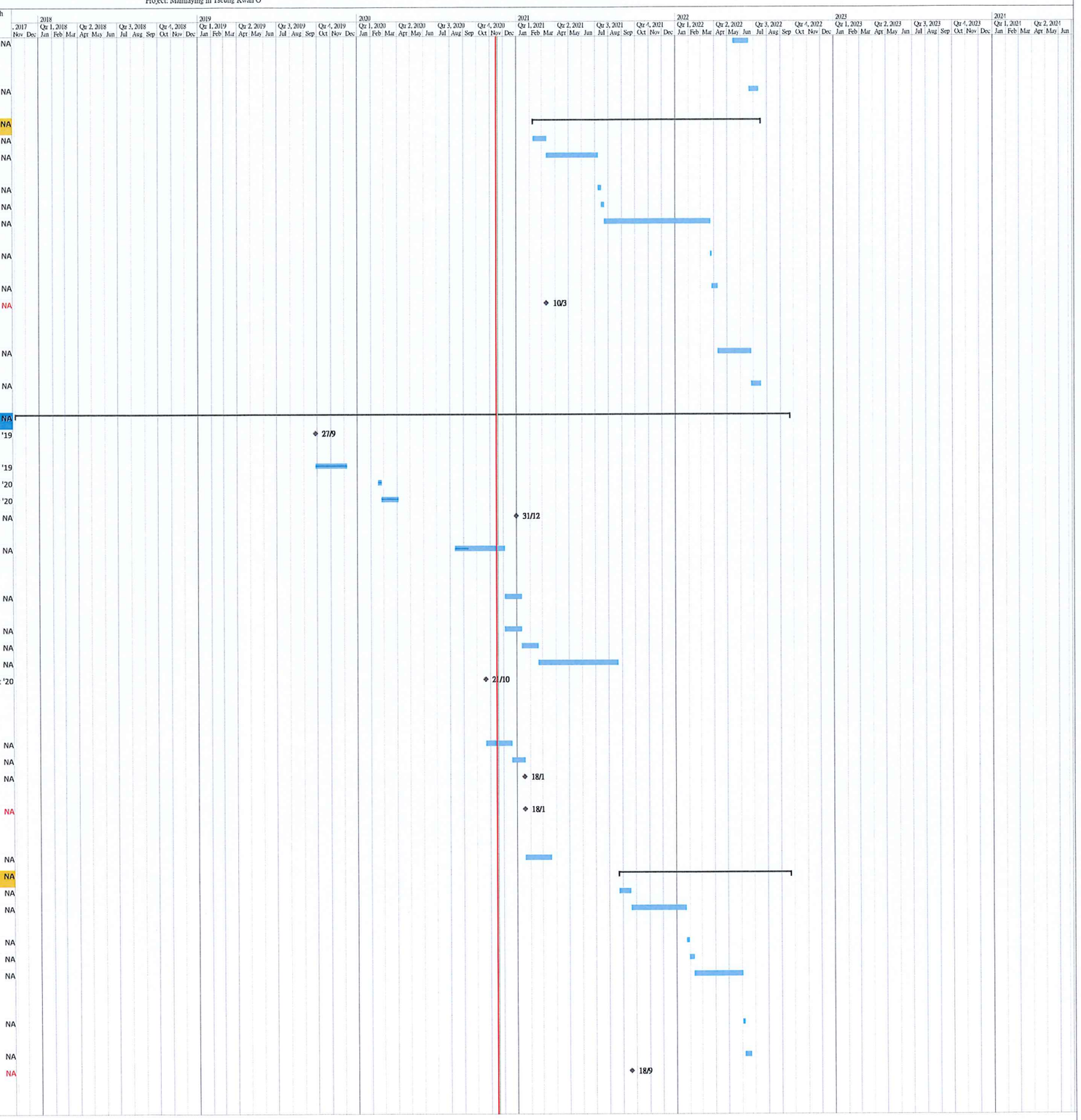
Task | Split | Milestone | Summary | Project Summary | Inactive Task | Inactive Milestone | Inactive Summary | Manual Task | Duration-only | Manual Summary Rollup | Manual Summary | Start-only | Finish-only | External Tasks | External Milestone | Deadline | Critical | Critical Split | Progress | Manual Progress

Project: Mainlaying in Tseung Kwan O

ID	Task Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish
151	Construction of Thrust Block between Trenchless Works and Open Cut Work near Jacking Pit A	30 days	14 May '22	18 Jun '22	HK Working Day	149,150	152,131	0%	NA	NA
152	Remove ELS and Reinstatement of Road works and planter	18 days	20 Jun '22	11 Jul '22	HK Working Day	151		0%	NA	NA
153	TBM Pipe Jacking (Pit B to Pit C)	422 days	8 Feb '21	16 Jul '22	HK Working Day			0%	NA	NA
154	Establishment at Pit B	24 days	8 Feb '21	10 Mar '21	HK Working Day	139	155,161	0%	NA	NA
155	Jacking DN1600 Precast Concrete Sleeve Pipe From Pit B to Pit C (L=326m; 3.5m/day)	94 days	11 Mar '21	7 Jul '21	HK Working Day	154	156	0%	NA	NA
156	Remove setup Including Thrust Wall at Pit B	6 days	8 Jul '21	14 Jul '21	HK Working Day	155	143,157,1	0%	NA	NA
157	Setup for Pipe Laying inside jacking Pit B	6 days	15 Jul '21	21 Jul '21	HK Working Day	156	158	0%	NA	NA
158	DN1200 MS Pipe Laying inside jacking pipe (326m) (2 days per 4m)(Only Internal Coating)	200 days	22 Jul '21	22 Mar '22	HK Working Day	157	159	0%	NA	NA
159	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	23 Mar '22	25 Mar '22	HK Working Day	158	160	0%	NA	NA
160	Grouting Works (30 meter/day)	11 days	26 Mar '22	8 Apr '22	HK Working Day	159	162,191	0%	NA	NA
161	Expected CE No. XX - Special Type of Chamber for interface between Trencless Works and Open Cut Work near Jacking/Receiving Pit B	0 days	10 Mar '21	10 Mar '21	Calendar Day	154	162	0%	NA	NA
162	Construction of Special Chamber at Jacking / Receiving Pit B	60 days	9 Apr '22	24 Jun '22	HK Working Day	148,160,161,185	163	0%	NA	NA
163	Remove ELS including extracting sheet piles at Pit B & Reinstatement of Road works and planter	18 days	25 Jun '22	16 Jul '22	HK Working Day	162		0%	NA	NA
164	Crossing Wan Po Road and Lohas Park Road	1780 days	7 Nov '17	21 Sep '22	Calendar Day			7%	7 Nov '17	NA
165	Issue CE No. 24 - Ground Investigation for Working Pit E, F and Trenchless Works across MT Tunnel	0 days	27 Sep '19	27 Sep '19	Calendar Day		166	100%	27 Sep '19	27 Sep '19
166	Tender & Subletting	71 days	27 Sep '19	6 Dec '19	Calendar Day	165		100%	27 Sep '19	6 Dec '19
167	Mobilization and Establishment of GI equipment	7 days	17 Feb '20	24 Feb '20	HK Working Day		168	100%	17 Feb '20	24 Feb '20
168	Ground Investigation GI No. 3	33 days	25 Feb '20	2 Apr '20	HK Working Day	167		100%	25 Feb '20	2 Apr '20
169	Obtain MTR's approval on the alignment and construction method about MTR's tunnels	0 days	31 Dec '20	31 Dec '20	Calendar Day			0%	NA	NA
170	TTA submission and Approval , Suspension of Parking Meters and TTA Implement for Jacking Pit D	114 days	12 Aug '20	3 Dec '20	Calendar Day		172,171	27%	12 Aug '20	NA
171	Inspection Pits for Lohas Park Road Footpath in frontal of Viaduct Utilities Trough	30 days	4 Dec '20	11 Jan '21	HK Working Day	170	179	0%	NA	NA
172	Inspection Pits & GI Works for Jacking Pit D	30 days	4 Dec '20	11 Jan '21	HK Working Day	170	179,173	0%	NA	NA
173	Design of Jacking D	30 days	12 Jan '21	18 Feb '21	HK Working Day	172	174	0%	NA	NA
174	Jacking Pit D at Car Park	150 days	19 Feb '21	21 Aug '21	HK Working Day	173	182	0%	NA	NA
175	Issue CE Bo. 77 - Design of Water Main Structure and Modification Works to the Affected Geotechnical Features in Wan Po Road and Lohas Park Road	0 days	21 Oct '20	21 Oct '20	Calendar Day		176	100%	21 Oct '20	21 Oct '20
176	Submission for CE77	60 days	21 Oct '20	19 Dec '20	Calendar Day	175	177	0%	NA	NA
177	Approval of CE77	30 days	20 Dec '20	18 Jan '21	Calendar Day	176	179	0%	NA	NA
178	TPRP Appoval for Tree at Slope Feature 12SW-A/FR102	0 days	18 Jan '21	18 Jan '21	Calendar Day		195	0%	NA	NA
179	Expected CE No. XX - Relocation of Working pits for Trenchless Works in Wan Po Road juction with Lohas Park Road	0 days	18 Jan '21	18 Jan '21	Calendar Day	172,171,177	180	0%	NA	NA
180	Subletting works for CE No. XX	60 days	19 Jan '21	19 Mar '21	Calendar Day	179	196,210,2	0%	NA	NA
181	TBM Pipe Jacking (Pit D to Pit C)	321 days	23 Aug '21	21 Sep '22	HK Working Day			0%	NA	NA
182	Establishment at Pit D	24 days	23 Aug '21	18 Sep '21	HK Working Day	174	183,189,1	0%	NA	NA
183	DN1600 Precast Concrete Sleeve Pipe (Pit D - Pit C) (CH.A19+26 to CH.A22+80) in Soil (354m; 3.5m/day)	102 days	20 Sep '21	22 Jan '22	HK Working Day	182	184	0%	NA	NA
184	Remove setup Including Thrust Wall at Pit D	6 days	24 Jan '22	29 Jan '22	HK Working Day	183	185	0%	NA	NA
185	Setup for Pipe Laying inside jacking Pit D	6 days	31 Jan '22	9 Feb '22	HK Working Day	184	186	0%	NA	NA
186	DN1200 MS Pipe Laying inside jacking pipe (354m) (say 2 days per 8m)(only Internal Coating)	90 days	10 Feb '22	1 Jun '22	HK Working Day	185	187	0%	NA	NA
187	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	2 Jun '22	6 Jun '22	HK Working Day	186	188	0%	NA	NA
188	Grouting Works (30 meter/day)	12 days	7 Jun '22	20 Jun '22	HK Working Day	187	191,192	0%	NA	NA
189	Issue CE No. XX - Special Type of Chamber for interface between Trencless Works and Open Cut Work near Receiving Pit C	0 days	18 Sep '21	18 Sep '21	Calendar Day	182	162,191	0%	NA	NA



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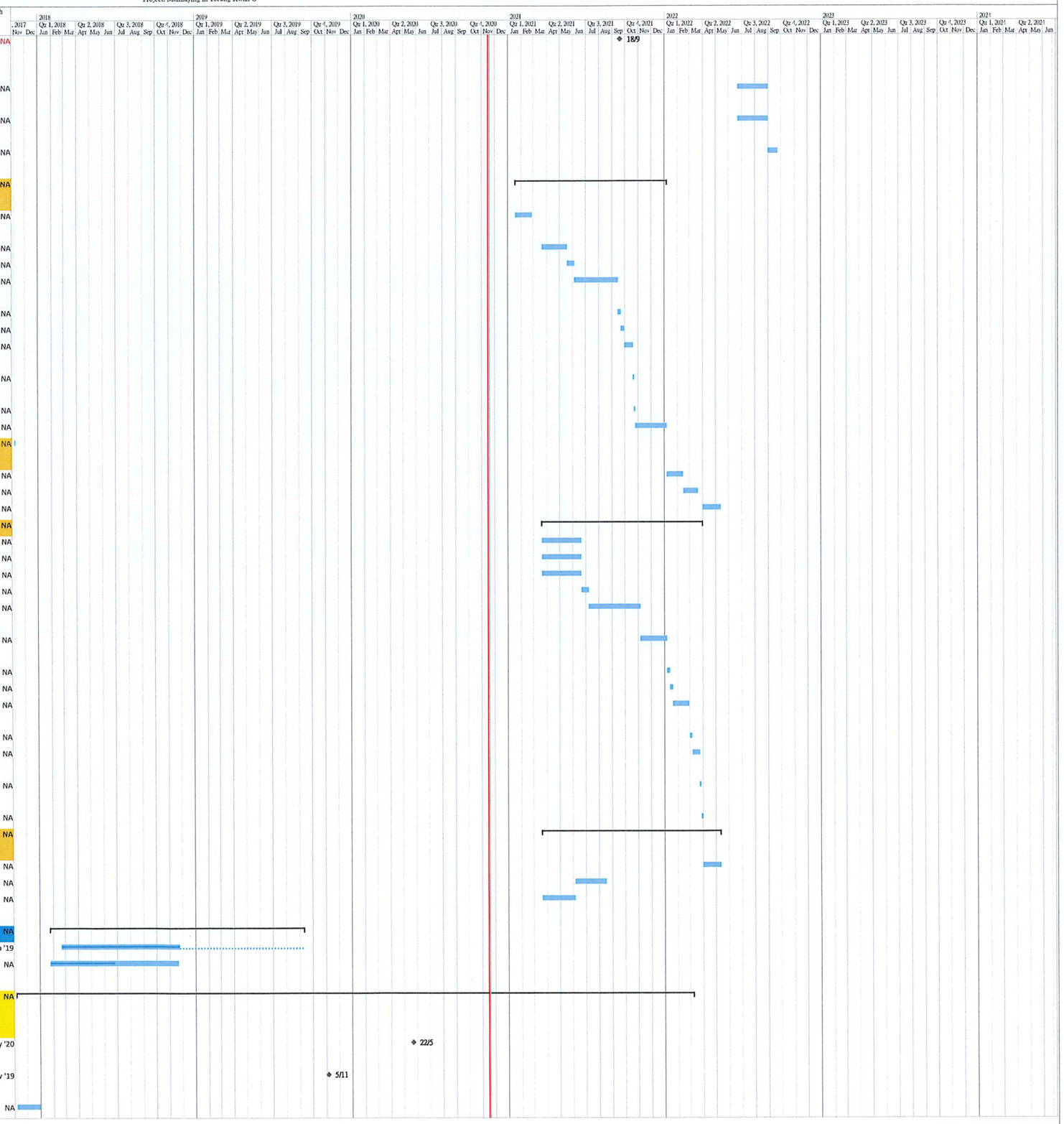
Project: Mainlaying in Tseung Kwan O

ID	Task Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish
190	Issue CE No. XX - Special Type of Chamber for interface between Trencless Works and Open Cut Work near Receiving Pit D	0 days	18 Sep '21	18 Sep '21	Calendar Day	182	162,192	0%	NA	NA
191	Construction of Special Chamber inside Receiving Pit C	60 days	21 Jun '22	30 Aug '22	HK Working Day	188,189,160	193	0%	NA	NA
192	Construction of Special Chamber inside Receiving Pit D	60 days	21 Jun '22	30 Aug '22	HK Working Day	188,190		0%	NA	NA
193	Remove ELS including extracting sheet piles at Pit C & Reinstatement of Road works and planter	18 days	31 Aug '22	21 Sep '22	HK Working Day	191		0%	NA	NA
194	Handshield Crossing Wan Po Road (CH. FA0+15 to CH. FA0+50)	286 days	18 Jan '21	5 Jan '22	HK Working Day			0%	NA	NA
195	Tree Felling and Tree Works at Slope Feature 12SW-A/FR102	30 days	18 Jan '21	24 Feb '21	HK Working Day	178		0%	NA	NA
196	Strengthen Works at Feature 12SW-A/R27 & R28	45 days	20 Mar '21	17 May '21	HK Working Day	180	197	0%	NA	NA
197	Handshiled Establishment	14 days	18 May '21	3 Jun '21	HK Working Day	196	198	0%	NA	NA
198	Mild Steel Sleeve Pipe in Soil Mix (35m; 0.4m/day)	85 days	4 Jun '21	13 Sep '21	HK Working Day	197	199	0%	NA	NA
199	Remove estabishment	6 days	14 Sep '21	20 Sep '21	HK Working Day	198	200	0%	NA	NA
200	Setup for Pipe Laying inside jacking	6 days	21 Sep '21	28 Sep '21	HK Working Day	199	201	0%	NA	NA
201	DN900 MS Pipe Laying inside jacking pipe (35m) (say 3 days per 8m)	15 days	29 Sep '21	18 Oct '21	HK Working Day	200	202	0%	NA	NA
202	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	19 Oct '21	21 Oct '21	HK Working Day	201	203	0%	NA	NA
203	Grouting Works (30 meter/day)	2 days	22 Oct '21	23 Oct '21	HK Working Day	202	204	0%	NA	NA
204	Pipe laying Works From Pit D to CH.FA0+15	60 days	25 Oct '21	5 Jan '22	HK Working Day	203	206	0%	NA	NA
205	Vertical Pipes, Exposed Pipes & Burned Pipes above MTR Tunnels (CH.FA0+50 to CH.FA0+85)	1 day	7 Nov '17	7 Nov '17	None			0%	NA	NA
206	Vertical pipes with Concrete Surround	30 days	6 Jan '22	12 Feb '22	HK Working Day	204	207	0%	NA	NA
207	Exposed pipes with concrete surround	30 days	14 Feb '22	19 Mar '22	HK Working Day	206	208	0%	NA	NA
208	Open cut pipe laying with concrete surround	30 days	31 Mar '22	11 May '22	HK Working Day	222,207		0%	NA	NA
209	Hand Shield Pipe Jacking crossing Lohas Park Road	305 days	20 Mar '21	30 Mar '22	HK Working Day			0%	NA	NA
210	Design & Construction of Receiving Pit E	72 days	20 Mar '21	19 Jun '21	HK Working Day	180		0%	NA	NA
211	Design & Constuction of Jacking Pit F	72 days	20 Mar '21	19 Jun '21	HK Working Day	180	213	0%	NA	NA
212	Design & Construction og Receiving Pit G	72 days	20 Mar '21	19 Jun '21	HK Working Day	180		0%	NA	NA
213	Establishment at Pit F	14 days	21 Jun '21	7 Jul '21	HK Working Day	211	214	0%	NA	NA
214	Mild Steel Sleeve Pipe (Pit F - Pit E) in Soil Mix (40m; 0.4m/day)	100 days	8 Jul '21	4 Nov '21	HK Working Day	213	215	0%	NA	NA
215	Mild Steel Sleeve Pipe (Pit F - Pit G) in Soil Mix (20m; 0.4m/day)	50 days	5 Nov '21	5 Jan '22	HK Working Day	214	216	0%	NA	NA
216	Remove setup Including Thrust Wall at Pit F	6 days	6 Jan '22	12 Jan '22	HK Working Day	215	217	0%	NA	NA
217	Setup for Pipe Laying inside jacking Pit F	6 days	13 Jan '22	19 Jan '22	HK Working Day	216	218	0%	NA	NA
218	DN900 MS Pipe Laying from Pit F to Pit E (40m) (say 3 days per 4m)	30 days	20 Jan '22	26 Feb '22	HK Working Day	217	219	0%	NA	NA
219	Modify Setup for Pipe Laying inside jacking Pit F	6 days	28 Feb '22	5 Mar '22	HK Working Day	218	220	0%	NA	NA
220	DN900 MS Pipe Laying from Pit F to Pit G (20m) (say 3 days per 4m)	15 days	7 Mar '22	23 Mar '22	HK Working Day	219	221	0%	NA	NA
221	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	24 Mar '22	26 Mar '22	HK Working Day	220	222	0%	NA	NA
222	Grouting Works (30 meter/day)	3 days	28 Mar '22	30 Mar '22	HK Working Day	221	208,224	0%	NA	NA
223	Vertical Pipes, Exposed Pipes & Burned Pipes above MTR Tunnels (CH.FA1+50 to CH.FA2+17)	335 days	20 Mar '21	11 May '22	None			0%	NA	NA
224	Vertical pipes with Concrete Surround	30 days	31 Mar '22	11 May '22	HK Working Day	222		0%	NA	NA
225	Exposed pipes with concrete surround	60 days	5 Jun '21	16 Aug '21	HK Working Day	226		0%	NA	NA
226	Open cut pipe laying with concrete surround (CH.FA1+64 to CH.FA2+17)	60 days	20 Mar '21	4 Jun '21	HK Working Day	180	225	0%	NA	NA
227	Miscellaneous	594 days	25 Jan '18	10 Sep '19	Calendar Day			80%	25 Jan '18	NA
228	Trial Pit Excavation for Pit 1 to Pit 20	462 days	20 Feb '18	10 Sep '19	HK Working Day	48		100%	20 Feb '18	10 Sep '19
229	Liaison with MTRC for works inside MTR Railway Protection Zone	300 days	25 Jan '18	20 Nov '18	Calendar Day			50%	25 Jan '18	NA
230	Open Cut Excavation, Pipe Laying and Reinstatement at TKO Landfill Stage 1 and TKO South Waterfront Promenade	1283 days	7 Nov '17	8 Mar '22	HK Working Day		640	54%	7 Nov '17	NA
231	Issue CE No. 36 - Realignment of Watermain along the Bituminous Road adjacent to Lohas Park Road	0 days	22 May '20	22 May '20	Calendar Day			100%	22 May '20	22 May '20
232	Issue CE No. 34 - Realignment of Watermain along TKO Stage I Landfill	0 days	5 Nov '19	5 Nov '19	Calendar Day			100%	5 Nov '19	5 Nov '19
233	Open Cut from CH.FB5+34 to Pit F)	45 days	7 Nov '17	30 Dec '17	HK Working Day			0%	NA	NA



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Task | Split | Milestone | Summary | Project Summary | Inactive Task | Inactive Milestone | Inactive Summary | Manual Task | Duration-only | Manual Summary Rollup | Manual Summary | Start-only | Finish-only | External Tasks | External Milestone | Deadline | Critical | Critical Split | Progress | Manual Progress

ID	Task Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish
234	TKO Landfill Stage I Area A (CH. FB0+00 to CH.FB5+34)	257 days	15 May '20	23 Mar '21	HK Working Day		639	75%	15 May '20	NA
235	CH. FB0+00 - 0+38 OC with DN900 Valve Chamber and Wash out Pump Pit	75 days	14 Dec '20	17 Mar '21	HK Working Day	236		0%	NA	NA
236	CH. FB0+38 - 0+70 OC	30 days	9 Nov '20	12 Dec '20	HK Working Day		235	0%	9 Nov '20	NA
237	CH. FB0+70 - 1+02 OC	30 days	19 Oct '20	23 Nov '20	HK Working Day			90%	19 Oct '20	NA
238	CH. FB1+02 - 1+34 OC	30 days	12 Oct '20	16 Nov '20	HK Working Day			90%	12 Oct '20	NA
239	CH. FB1+34 - 1+66 OC	30 days	5 Sep '20	12 Oct '20	HK Working Day			95%	5 Sep '20	NA
240	CH. FB1+66 - 2+06 OC	128 days	15 May '20	15 Oct '20	HK Working Day			100%	15 May '20	15 Oct '20
241	CH. FB2+06 - 2+38 OC	104 days	12 Jun '20	15 Oct '20	HK Working Day			100%	12 Jun '20	15 Oct '20
242	CH. FB2+38 - 2+70 OC	83 days	9 Jul '20	15 Oct '20	HK Working Day			100%	9 Jul '20	15 Oct '20
243	CH. FB2+70 - 3+02 OC	30 days	27 Jul '20	29 Aug '20	HK Working Day			95%	27 Jul '20	NA
244	CH. FB3+02 - 3+34 OC	30 days	3 Aug '20	5 Sep '20	HK Working Day			95%	3 Aug '20	NA
245	CH. FB3+34 - 3+66 OC	30 days	13 Aug '20	16 Sep '20	HK Working Day			95%	13 Aug '20	NA
246	CH. FB3+66 - 3+98 OC	30 days	24 Aug '20	26 Sep '20	HK Working Day			95%	24 Aug '20	NA
247	CH. FB3+98 - 4+30 OC	53 days	10 Sep '20	13 Nov '20	HK Working Day			100%	10 Sep '20	13 Nov '20
248	CH. FB4+30 - 4+62 OC	46 days	18 Sep '20	13 Nov '20	HK Working Day			100%	18 Sep '20	13 Nov '20
249	CH. FB4+62 - 4+86 OC	28 days	12 Oct '20	13 Nov '20	HK Working Day			100%	12 Oct '20	13 Nov '20
250	CH. FB4+86 - 5+18 OC	30 days	14 Nov '20	18 Dec '20	HK Working Day		251	30%	14 Nov '20	NA
251	CH. FB5+18 - 5+34 OC with DN600 IT & DN300 Washout	75 days	19 Dec '20	23 Mar '21	HK Working Day	250	253	0%	NA	NA
252	TKO South Waterfront Promenade (CH. FC0+00 - 4+87)	412 days	26 Feb '20	19 Jul '21	HK Working Day			50%	26 Feb '20	NA
253	CH. FC 0+00 - 0+33 OC	30 days	24 Mar '21	3 May '21	HK Working Day	251		0%	NA	NA
254	CH. FC 0+33 - 0+65 OC	30 days	12 Jun '21	19 Jul '21	HK Working Day	267		0%	NA	NA
255	CH. FC 0+65 - 0+95 OC	34 days	26 Feb '20	6 Apr '20	HK Working Day			100%	26 Feb '20	6 Apr '20
256	CH. FC 0+95 - 1+27 OC	30 days	6 Apr '20	15 May '20	HK Working Day			100%	6 Apr '20	15 May '20
257	CH. FC 1+27 - 1+59 OC	31 days	15 May '20	19 Jun '20	HK Working Day			100%	15 May '20	19 Jun '20
258	CH. FC 1+59 - 1+91 OC	21 days	19 Jun '20	15 Jul '20	HK Working Day			100%	19 Jun '20	15 Jul '20
259	CH. FC 1+91 - 2+23 OC	29 days	15 Jul '20	17 Aug '20	HK Working Day		260	100%	15 Jul '20	17 Aug '20
260	CH. FC 2+23 - 2+55 OC	25 days	17 Aug '20	14 Sep '20	HK Working Day	259	261	100%	17 Aug '20	14 Sep '20
261	CH. FC 2+55 - 2+87 OC	38 days	14 Sep '20	30 Oct '20	HK Working Day	260	262	100%	14 Sep '20	30 Oct '20
262	CH. FC 2+87 - 3+19 OC	31 days	30 Oct '20	4 Dec '20	HK Working Day	261	263	50%	30 Oct '20	NA
263	CH. FC 3+19 - 3+51 OC	30 days	5 Dec '20	12 Jan '21	HK Working Day	262	264	0%	NA	NA
264	CH. FC 3+51 - 3+83 OC	30 days	13 Jan '21	19 Feb '21	HK Working Day	263	265	0%	NA	NA
265	CH. FC 3+83 - 4+15 OC	30 days	20 Feb '21	26 Mar '21	HK Working Day	264	266	0%	NA	NA
266	CH. FC 4+15 - 4+47 OC	30 days	27 Mar '21	6 May '21	HK Working Day	265	267	0%	NA	NA
267	CH. FC 4+47 - 4+87 C	30 days	7 May '21	11 Jun '21	HK Working Day	266	254	0%	NA	NA
268	TKO South Waterfront Promenade (CH. FC4+87 - 8+71)	401 days	24 Mar '20	2 Aug '21	HK Working Day			51%	24 Mar '20	NA
269	CH. FC 4+87 - 5+19 OC with DN600 IT	72 days	24 Mar '20	22 Jun '20	HK Working Day			100%	24 Mar '20	22 Jun '20
270	CH. FC 5+19 - 5+51 OC	29 days	22 Jun '20	27 Jul '20	HK Working Day		271	100%	22 Jun '20	27 Jul '20
271	CH. FC 5+51 - 5+83 OC	32 days	27 Jul '20	1 Sep '20	HK Working Day	270	272	100%	27 Jul '20	1 Sep '20
272	CH. FC 5+83 - 6+15 OC	28 days	1 Sep '20	5 Oct '20	HK Working Day	271	273	100%	1 Sep '20	5 Oct '20
273	CH. FC 6+15 - 6+47 OC	27 days	5 Oct '20	5 Nov '20	HK Working Day	272	274	100%	5 Oct '20	5 Nov '20
274	CH. FC 6+47 - 6+79 OC	38 days	5 Nov '20	18 Dec '20	HK Working Day	273	275	50%	5 Nov '20	NA
275	CH. FC 6+79 - 7+11 OC	30 days	19 Dec '20	26 Jan '21	HK Working Day	274	276	0%	NA	NA
276	CH. FC 7+11 - 7+43 OC	30 days	27 Jan '21	5 Mar '21	HK Working Day	275	277	0%	NA	NA
277	CH. FC 7+43 - 7+75 OC	30 days	6 Mar '21	14 Apr '21	HK Working Day	276	278	0%	NA	NA
278	CH. FC 7+75 - 8+07 OC	30 days	15 Apr '21	21 May '21	HK Working Day	277	279	0%	NA	NA
279	CH. FC 8+07 - 8+39 OC	30 days	22 May '21	26 Jun '21	HK Working Day	278	280	0%	NA	NA
280	CH. FC 8+39 - 8+71 OC	30 days	28 Jun '21	2 Aug '21	HK Working Day	279		0%	NA	NA
281	TKO Landfill Stage I Area B (CH. FC 8+71 - 13+26)	565 days	14 Apr '20	8 Mar '22	HK Working Day			34%	14 Apr '20	NA
282	CH. FC 8+71 - 9+55 OC	90 days	17 Nov '21	8 Mar '22	HK Working Day	283		0%	NA	NA
283	CH. FC 9+55 - 11+90 OC with DN150 DAV	300 days	12 Nov '20	16 Nov '21	HK Working Day	284	282	0%	NA	NA
284	CH. FC 11+90 - 12+06 OC	30 days	7 Oct '20	11 Nov '20	HK Working Day		283	80%	7 Oct '20	NA
285	CH. FC 12+06 - 12+30 OC	68 days	15 Jul '20	3 Oct '20	HK Working Day			95%	15 Jul '20	NA
286	CH. FC 12+30 - 12+62 OC with Monitoring Chamber	50 days	15 Jun '20	13 Aug '20	HK Working Day			95%	15 Jun '20	NA
287	CH. FC 12+62 - 13+02 OC	50 days	15 May '20	14 Jul '20	HK Working Day			95%	15 May '20	NA
288	CH. FC 13+02 - 13+26 OC	28 days	14 Apr '20	18 May '20	HK Working Day			95%	14 Apr '20	NA
289	Burned Pipe, Exposed Pipe, Trenchless Works From Loi Avenue to Po Yap Road Roundabout	768 days	20 Apr '20	18 Nov '22	HK Working Day		641	7%	20 Apr '20	NA
290	Issue CE No. 65 - Landscaping Survey near Po Yap and Pung Loi Road	0 days	17 Jun '20	17 Jun '20	Calendar Day			100%	17 Jun '20	17 Jun '20
291	Expected CE No. XX - Realignment of Water Mains near Pung Loi Road	0 days	30 Nov '20	30 Nov '20	Calendar Day		296	0%	NA	NA
292	XP Application; DLO/LandsD Approval	240 days	20 Apr '20	15 Dec '20	Calendar Day		295	21%	20 Apr '20	NA
293	TTA preparation, SLG meetings and obtain RA	60 days	12 Aug '20	10 Oct '20	Calendar Day			10%	12 Aug '20	NA

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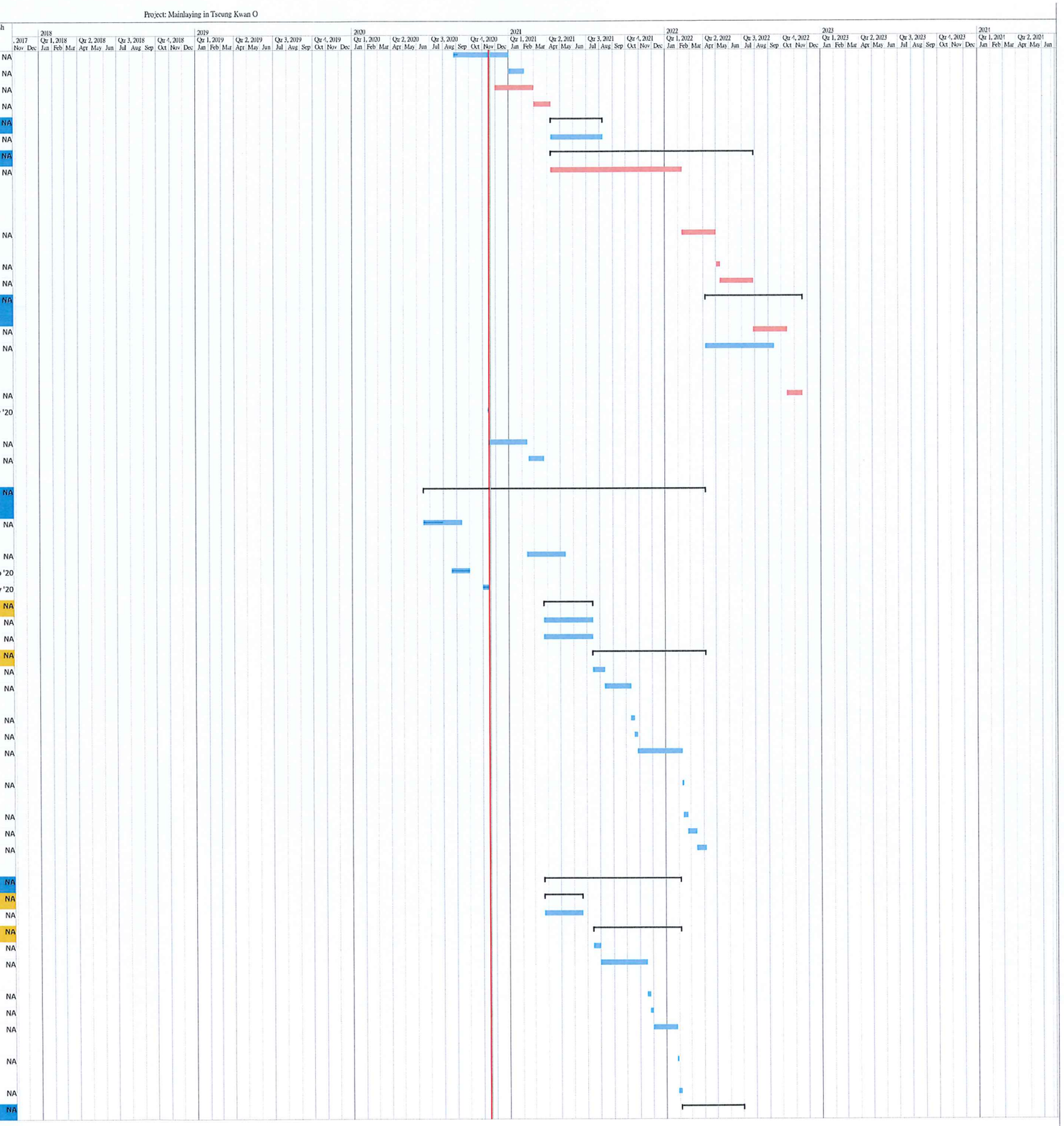
Project: Mainlaying in Tseung Kwan O

ID	Task Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish
294	Tress Survey; TPRP Submission & Approval.	128 days	26 Aug '20	31 Dec '20	Calendar Day		295	8%	26 Aug '20	NA
295	Site Possession and Tree Removal Works	30 days	2 Jan '21	5 Feb '21	HK Working Day	294,292		0%	NA	NA
296	Tender Process and Tender Award for CE No. xx	90 days	30 Nov '20	27 Feb '21	Calendar Day	291	297	0%	NA	NA
297	Temporary Design and Advanced Works	30 days	1 Mar '21	8 Apr '21	HK Working Day	296	299,301	0%	NA	NA
298	Open Trench Crossing Pung Loi Avenue	100 days	9 Apr '21	7 Aug '21	HK Working Day		640	0%	NA	NA
299	CH.FC13+26 (CH.FD0+00 - CH.FD0+82)	100 days	9 Apr '21	7 Aug '21	HK Working Day	297		0%	NA	NA
300	Exposed Pipe From CH.FD00+82 to FDD2+59	386 days	9 Apr '21	27 Jul '22	HK Working Day			0%	NA	NA
301	Excavation In Slope Toe; Construction of Concrete Support from CH.FD0+82 to CH.FD2+59, Length = 173m, 47 R.C. Pipe Supports @4m c/c spacing; @18 days cycle; 4 RC Support each time)	250 days	9 Apr '21	9 Feb '22	HK Working Day	297	302	0%	NA	NA
302	DN1200 Pipe Laying on Concrete Support with Concrete Hunching	65 days	10 Feb '22	30 Apr '22	HK Working Day	301	303	0%	NA	NA
303	Apply top coating of aliphatic polyurethane on site	6 days	3 May '22	10 May '22	HK Working Day	302	304	0%	NA	NA
304	Make Good Slope Toe and Landscape Work	65 days	11 May '22	27 Jul '22	HK Working Day	303	306	0%	NA	NA
305	Open Trench Connecting Trenchless and Exposed Pipe	185 days	6 Apr '22	18 Nov '22	HK Working Day			0%	NA	NA
306	CH.FD2+59 to CH.FD3+15 OC	65 days	28 Jul '22	14 Oct '22	HK Working Day	304	308	0%	NA	NA
307	CH.FDD3+15 to CH.FDD3+70 OC with DN900 Valve Chamber and By-pass Pipe and Connection to Pit WPR1	130 days	6 Apr '22	13 Sep '22	HK Working Day	329	308	0%	NA	NA
308	Make Good Slope Toe and Landscape Work	30 days	15 Oct '22	18 Nov '22	HK Working Day	306,307		0%	NA	NA
309	Issue of Draft CE No. 59 - Realignment of Water Mains near Pung Loi Road and Po Yap Road Roundabout	1 day	13 Nov '20	13 Nov '20	Calendar Day		310	100%	13 Nov '20	13 Nov '20
310	Tender Process and Tender Award for CE No. 59	90 days	14 Nov '20	11 Feb '21	Calendar Day	309	314,311	0%	NA	NA
311	Temporary Works Design for Jacking / Receiving Pitfor CE No. 59	30 days	16 Feb '21	22 Mar '21	HK Working Day	310	318,332,3	0%	NA	NA
312	Trenchless Crossing MTR Tunnels (Pit WPR1 to Pit G1A)	537 days	15 Jun '20	5 Apr '22	HK Working Day			15%	15 Jun '20	NA
313	Preliminary Works & MTR's Approval for RP Protection Zone	90 days	15 Jun '20	12 Sep '20	Calendar Day		321	50%	15 Jun '20	NA
314	Material Procurement for the issued CE	90 days	12 Feb '21	12 May '21	Calendar Day	310		0%	NA	NA
315	Trial Pit at Working Pit WPR1	36 days	20 Aug '20	30 Sep '20	HK Working Day			100%	20 Aug '20	30 Sep '20
316	Trial Pit at Working Pit G1A	12 days	1 Nov '20	14 Nov '20	HK Working Day			100%	1 Nov '20	14 Nov '20
317	Construction of Jacking Pit / Receiving Pit (TBM)	90 days	23 Mar '21	14 Jul '21	HK Working Day			0%	NA	NA
318	Jacking Pit WPR1 (Near Pung Loi Road)	90 days	23 Mar '21	14 Jul '21	HK Working Day	311	321	0%	NA	NA
319	Receiving Pit G1A (Near Po Yap Road)	90 days	23 Mar '21	14 Jul '21	HK Working Day	311	321,334	0%	NA	NA
320	TBM Pipe Jacking (WPR1 to G1A)	217 days	15 Jul '21	5 Apr '22	HK Working Day			0%	NA	NA
321	Establishment at Pit WPR1 in slope toe	24 days	15 Jul '21	11 Aug '21	HK Working Day	318,319,313	322	0%	NA	NA
322	Jacking DN1600 Precast Concrete Sleeve Pipe (224m; 4.5m/day)	50 days	12 Aug '21	11 Oct '21	HK Working Day	321	323	0%	NA	NA
323	Remove setup including Thrust Wall at Pit WPR1	6 days	12 Oct '21	19 Oct '21	HK Working Day	322	324	0%	NA	NA
324	Setup for Pipe Laying inside Jacking Pit WPR1	6 days	20 Oct '21	26 Oct '21	HK Working Day	323	325	0%	NA	NA
325	DN1200 MS Pipe Laying inside Jacking Pipe (224m) (3 days per 8m)	84 days	27 Oct '21	8 Feb '22	HK Working Day	324	326	0%	NA	NA
326	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	9 Feb '22	11 Feb '22	HK Working Day	325	327	0%	NA	NA
327	Grouting Works (30m per day)	8 days	12 Feb '22	21 Feb '22	HK Working Day	326	328	0%	NA	NA
328	Pipe Connection inside Working Pit WPR1	18 days	22 Feb '22	14 Mar '22	HK Working Day	327	329	0%	NA	NA
329	Remove ELS including extracting sheet piles at Pit WPR1; Reinstatement	18 days	15 Mar '22	5 Apr '22	HK Working Day	328	307	0%	NA	NA
330	Trenchless Works (Pit G1A or Pit J1A)	257 days	23 Mar '21	4 Feb '22	None			0%	NA	NA
331	Construction of Jacking Pit J1A (Hand Shield)	70 days	23 Mar '21	19 Jun '21	HK Working Day			0%	NA	NA
332	ELS Construction for Pit J1A	70 days	23 Mar '21	19 Jun '21	HK Working Day	311	334	0%	NA	NA
333	Handshield Pipe Jacking (Pit G1A to Pit J1A)	167 days	15 Jul '21	4 Feb '22	HK Working Day			0%	NA	NA
334	Establishment at Pit J1A	14 days	15 Jul '21	30 Jul '21	HK Working Day	319,332	335	0%	NA	NA
335	Segment @400mm Sleeve Pipe (~60m) in Soil (0.4m/day; 2 Teams)	90 days	31 Jul '21	16 Nov '21	HK Working Day	334	336	0%	NA	NA
336	Remove Setup including thrust wall at Pit J1A	6 days	17 Nov '21	23 Nov '21	HK Working Day	335	337	0%	NA	NA
337	Setup for Pipe Laying inside jacking Pit J1A	6 days	24 Nov '21	30 Nov '21	HK Working Day	336	338	0%	NA	NA
338	DN1200 MS Pipe Laying inside jacking pipe (~60m) (3 days per 4m)	45 days	1 Dec '21	25 Jan '22	HK Working Day	337	339	0%	NA	NA
339	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	26 Jan '22	28 Jan '22	HK Working Day	338	340	0%	NA	NA
340	Grouting Works (30 meter/day)	3 days	29 Jan '22	4 Feb '22	HK Working Day	339	342	0%	NA	NA
341	Open Trench between Pit K and J1A	118 days	5 Feb '22	30 Jun '22	HK Working Day		642	0%	NA	NA



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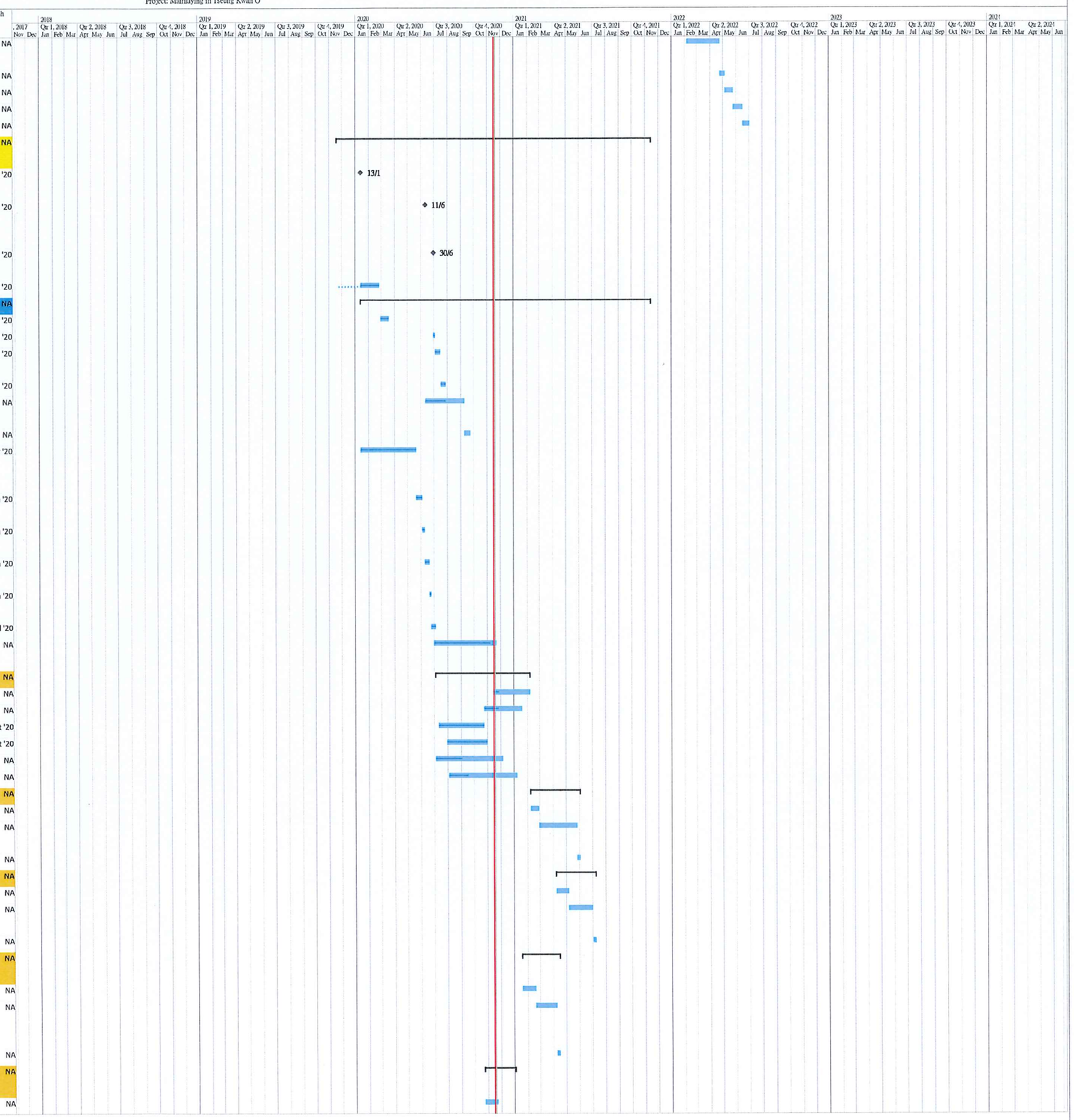
Project: Mainlaying in Tseung Kwan O

ID	Task Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish
342	Excavation and ELS Installation from Pit K to Pit J1A (62m)	62 days	5 Feb '22	22 Apr '22	HK Working Day	340	343	0%	NA	NA
343	Pipe Laying From Pit K to Pit J1A	9 days	23 Apr '22	4 May '22	HK Working Day	342	344	0%	NA	NA
344	Construction of Thrust Block from Pit K to Pit J1A	15 days	5 May '22	23 May '22	HK Working Day	343	345	0%	NA	NA
345	Backfill Trench and Remove ELS	18 days	24 May '22	14 Jun '22	HK Working Day	344	346	0%	NA	NA
346	Reinstatement of Plant and Shrubs in Roundabout	14 days	15 Jun '22	30 Jun '22	HK Working Day	345		0%	NA	NA
347	Trenchless Work from Po Yap Road Roundabout to KMB Depot (Pit K to Pit P)	590 days	18 Nov '19	13 Nov '21	HK Working Day		642	37%	18 Nov '19	NA
348	Issue CE No. 28 - Realignment of Water Mains along Po Yap Road and Po Hong Road	0 days	13 Jan '20	13 Jan '20	Calendar Day		351,359	100%	13 Jan '20	13 Jan '20
349	Issue CE No. 50 - Realignment of Watermain at the Junction of Wan Po Road and Po Yap Road and the Junction of Po Hong Road and Po Shun Road.	0 days	11 Jun '20	11 Jun '20	Calendar Day			100%	11 Jun '20	11 Jun '20
350	Issue CE No. 28A - Affected Trees along Cycle Track next to Hong Kong Velodrome and Tseung Kwan O Sport Ground	0 days	30 Jun '20	30 Jun '20	Calendar Day		365	100%	30 Jun '20	30 Jun '20
351	Tender and Subletting for CE No. 28	99 days	18 Nov '19	24 Feb '20	Calendar Day	348		100%	18 Nov '19	24 Feb '20
352	Trenchless Works (Pit K to Pit O)	545 days	13 Jan '20	13 Nov '21	HK Working Day			34%	13 Jan '20	NA
353	Inspection Pit Excavation at Pit K	16 days	28 Feb '20	17 Mar '20	HK Working Day			100%	28 Feb '20	17 Mar '20
354	Inspection Pit Excavation at Pit P	3 days	29 Jun '20	2 Jul '20	HK Working Day		355	100%	29 Jun '20	2 Jul '20
355	Review and change the pipe jacking from Pit P to Pit R	12 days	3 Jul '20	14 Jul '20	Calendar Day	354		100%	3 Jul '20	14 Jul '20
356	Forming temporary Vehicle Access for Pit P	10 days	16 Jul '20	27 Jul '20	HK Working Day		372	100%	16 Jul '20	27 Jul '20
357	MTR's Approval for Trenchless Works from Pit L to Pit K	75 days	11 Jun '20	8 Sep '20	HK Working Day		358	50%	11 Jun '20	NA
358	TTA Implement for Po Yap Load Roundabout	14 days	9 Sep '20	22 Sep '20	Calendar Day	357	367	0%	NA	NA
359	TTA preparation, SLG meetings, obtain RA and TPRP Approval for Temporary Vehicular Access at HK Velodrome	128 days	13 Jan '20	19 May '20	Calendar Day	348	360	100%	13 Jan '20	19 May '20
360	Coordination with LCSD and Notification to District Councillors	14 days	20 May '20	2 Jun '20	Calendar Day	359	361	100%	20 May '20	2 Jun '20
361	Form Temporary Vehicle Access at TKO Sport Ground	5 days	1 Jun '20	8 Jun '20	HK Working Day	360	362	100%	1 Jun '20	8 Jun '20
362	Tree Transplanting Working & Tree Removal Works at TKO Sport Ground (CE No. 28)	10 days	9 Jun '20	19 Jun '20	HK Working Day	361	363	100%	9 Jun '20	19 Jun '20
363	Tree Pruning Working for driving Sheetpile at Pit M, Pit N & Pit O	3 days	20 Jun '20	23 Jun '20	HK Working Day	362	364	100%	20 Jun '20	23 Jun '20
364	Mobilization of Sheet-piles and Driving Machines	7 days	24 Jun '20	3 Jul '20	HK Working Day	363	371,369	100%	24 Jun '20	3 Jul '20
365	Tree Survey along Cycle Track; TPRP Approval; Tree Removal Works along Cycle Tracks (Ce No. 28A)	120 days	30 Jun '20	20 Nov '20	HK Working Day	350		90%	30 Jun '20	NA
366	Construction of Jacking Pit & Receiving Pit	181 days	4 Jul '20	6 Feb '21	HK Working Day			52%	4 Jul '20	NA
367	Receiving Pit K	70 days	14 Nov '20	6 Feb '21	HK Working Day	358	374	15%	14 Nov '20	NA
368	Jacking Pit L	70 days	24 Oct '20	18 Jan '21	HK Working Day	369	374,382	39%	24 Oct '20	NA
369	Jacking Pit M	88 days	11 Jul '20	23 Oct '20	HK Working Day	364	368,386,3	100%	11 Jul '20	23 Oct '20
370	Receiving Pit N	77 days	30 Jul '20	30 Oct '20	HK Working Day		386FS-14 (	100%	30 Jul '20	30 Oct '20
371	Jacking / Receiving Pit O + additional Grouting	130 days	4 Jul '20	5 Dec '20	HK Working Day	364	378,390	40%	4 Jul '20	NA
372	Jacking Pit P + additional Grouting	130 days	3 Aug '20	7 Jan '21	HK Working Day	356	378	30%	3 Aug '20	NA
373	Hand Shield Jacking (Pit K to Pit L)	90 days	8 Feb '21	2 Jun '21	HK Working Day		394	0%	NA	NA
374	Establishment at Pit L	14 days	8 Feb '21	26 Feb '21	HK Working Day	367,368	375	0%	NA	NA
375	Segment @400mm Sleeve Pipe (Pit L to Pit K)(~ 56m) in Soil (0.8m/day)	70 days	27 Feb '21	26 May '21	HK Working Day	374	376	0%	NA	NA
376	Remove setup including thrust wall at Pit L	6 days	27 May '21	2 Jun '21	HK Working Day	375		0%	NA	NA
377	TBM Pipe Jacking (Pit P to Pit O)	75 days	8 Apr '21	8 Jul '21	HK Working Day		424,443	0%	NA	NA
378	Establishment at Pit P	24 days	8 Apr '21	6 May '21	HK Working Day	372,371,389	379	0%	NA	NA
379	DN1600 Precast Concrete Sleeve Pipe (Pit P - Pit O) (200m) in Soil (4.5m/day)	45 days	7 May '21	30 Jun '21	HK Working Day	378	380	0%	NA	NA
380	Remove setup including thrust wall at Pit P	6 days	2 Jul '21	8 Jul '21	HK Working Day	379		0%	NA	NA
381	TBM Pipe Jacking (Pit M to Pit L) (5 Days a week, 4 trip per days)	68 days	19 Jan '21	15 Apr '21	HK Working Day		400	0%	NA	NA
382	Establishment at Pit M	24 days	19 Jan '21	18 Feb '21	HK Working Day	385,368,369	383	0%	NA	NA
383	DN1600 Precast Concrete Sleeve Pipe (Pit M - Pit L) (CH.GA0+09 to CH.GA1+80) in Soil (171m; 4.5m/day)	38 days	19 Feb '21	8 Apr '21	HK Working Day	382	384	0%	NA	NA
384	Remove setup including thrust wall at Pit M	6 days	9 Apr '21	15 Apr '21	HK Working Day	383		0%	NA	NA
385	TBM Pipe Jacking (Pit M to Pit N) (5 Days a week, 4 trip per days)	57 days	24 Oct '20	2 Jan '21	HK Working Day		382,407,3	0%	NA	NA
386	Establishment at Pit M	24 days	24 Oct '20	21 Nov '20	HK Working Day	369,370FS-14 da	387	0%	NA	NA



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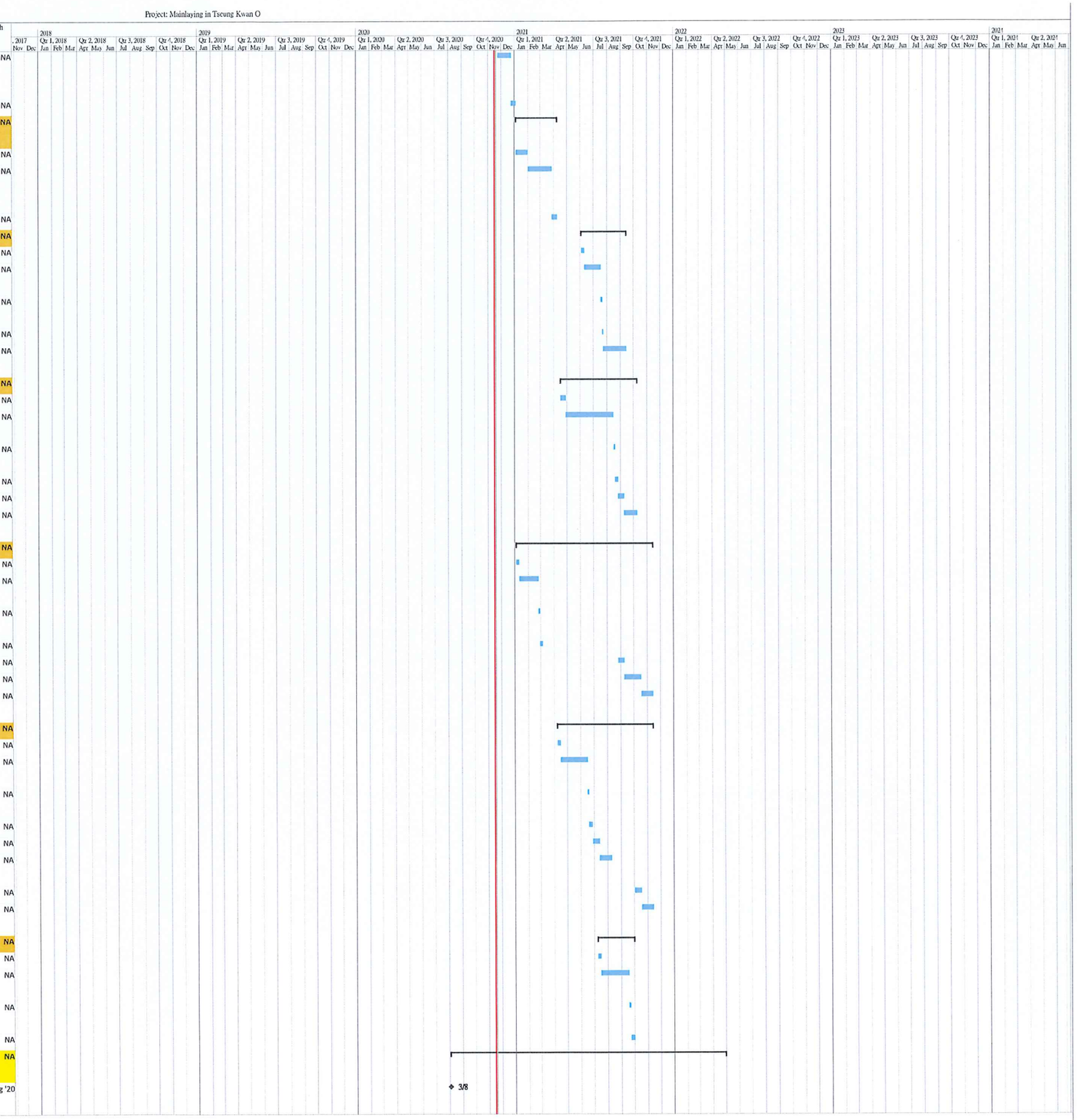
Task | Split | Milestone | Summary | Project Summary | Inactive Task | Inactive Milestone | Inactive Summary | Manual Task | Duration-only | Manual Summary Rollup | Manual Summary | Start-only | Finish-only | External Tasks | External Milestone | Deadline | Critical | Critical Split | Progress | Manual Progress

Project: Mainlaying in Tseung Kwan O

ID	Task Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish
387	DN1600 Precast Concrete Sleeve Pipe (Pit M - Pit N) (CH.GA1+86 to CH.GA3+20) in Soil (134m; 5m/day)	27 days	23 Nov '20	23 Dec '20	HK Working Day	386	388	0%	NA	NA
388	Remove setup including thrust wall at Pit M	6 days	24 Dec '20	2 Jan '21	HK Working Day	387		0%	NA	NA
389	TBM Pipe Jacking (Pit O to Pit N) (5 Days a week, 4 trip per days)	74 days	4 Jan '21	7 Apr '21	HK Working Day		415,378	0%	NA	NA
390	Establishment at Pit O	24 days	4 Jan '21	30 Jan '21	HK Working Day	370,371,385	391	0%	NA	NA
391	DN1600 Precast Concrete Sleeve Pipe (Pit O - Pit N) (CH.GA3+13 to CH.GA5+08) in Soil (195m; 4.5m/day)	44 days	1 Feb '21	26 Mar '21	HK Working Day	390	392	0%	NA	NA
392	Remove setup including thrust wall at Pit M	6 days	27 Mar '21	7 Apr '21	HK Working Day	391		0%	NA	NA
393	DN1200 Pipelaying (Pit K to Pit L)	86 days	3 Jun '21	13 Sep '21	HK Working Day			0%	NA	NA
394	Setup for Pipe Laying inside jacking Pit K	6 days	3 Jun '21	9 Jun '21	HK Working Day	373	395	0%	NA	NA
395	DN1200 MS Pipe Laying inside jacking pipe (56m) (2 days per 4m) (Only Internal Coating)	30 days	10 Jun '21	16 Jul '21	HK Working Day	394	396	0%	NA	NA
396	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	17 Jul '21	20 Jul '21	HK Working Day	395	397	0%	NA	NA
397	Grouting Works (30 meter/day)	2 days	21 Jul '21	22 Jul '21	HK Working Day	396	398	0%	NA	NA
398	Construction of DN900 Valve Chamber and DN150 By-pass Pipe & Valves Near Pit K	45 days	23 Jul '21	13 Sep '21	HK Working Day	397		0%	NA	NA
399	DN1200 Pipelaying (Pit M to Pit L)	145 days	16 Apr '21	8 Oct '21	HK Working Day			0%	NA	NA
400	Setup for Pipe Laying inside jacking Pit M	10 days	16 Apr '21	27 Apr '21	HK Working Day	381	401	0%	NA	NA
401	DN1200 MS Pipe Laying inside jacking pipe (171m) (2 days per 4m)(Only Internal Coating)	90 days	28 Apr '21	14 Aug '21	HK Working Day	400	402	0%	NA	NA
402	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	16 Aug '21	18 Aug '21	HK Working Day	401	403	0%	NA	NA
403	Grouting Works (30 meter/day)	6 days	19 Aug '21	25 Aug '21	HK Working Day	402	404,411	0%	NA	NA
404	Pipe Connection Inside Pit L	12 days	26 Aug '21	8 Sep '21	HK Working Day	403	405	0%	NA	NA
405	Remove ELS including extracting sheet piles at Pit L; Reinstatement of Cycle Track and planter	24 days	9 Sep '21	8 Oct '21	HK Working Day	404		0%	NA	NA
406	DN1200 Pipelaying (Pit M to Pit N)	256 days	4 Jan '21	13 Nov '21	HK Working Day			0%	NA	NA
407	Setup for Pipe Laying inside jacking Pit N	6 days	4 Jan '21	9 Jan '21	HK Working Day	385	408	0%	NA	NA
408	DN1200 MS Pipe Laying inside jacking pipe (134m) (2 days per 8m)(Only Internal Coating)	35 days	11 Jan '21	23 Feb '21	HK Working Day	407	409	0%	NA	NA
409	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	24 Feb '21	26 Feb '21	HK Working Day	408	410	0%	NA	NA
410	Grouting Works (30 meter/day)	5 days	27 Feb '21	4 Mar '21	HK Working Day	409	411,419	0%	NA	NA
411	Pipe Connection Inside Pit M	12 days	26 Aug '21	8 Sep '21	HK Working Day	403,410	412	0%	NA	NA
412	Construction of IT Chamber at Pit M	30 days	9 Sep '21	16 Oct '21	HK Working Day	411	413	0%	NA	NA
413	Remove ELS including extracting sheet piles at Pit M & Pit N; Reinstatement of Cycle Track and planter	24 days	18 Oct '21	13 Nov '21	HK Working Day	412		0%	NA	NA
414	DN1200 Pipelaying (Pit O to Pit N)	182 days	8 Apr '21	13 Nov '21	HK Working Day			0%	NA	NA
415	Setup for Pipe Laying inside jacking Pit N	6 days	8 Apr '21	14 Apr '21	HK Working Day	389	416	0%	NA	NA
416	DN1200 MS Pipe Laying inside jacking pipe (195m) (2 days per 8m)(Only Internal Coating)	50 days	15 Apr '21	15 Jun '21	HK Working Day	415	417	0%	NA	NA
417	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	16 Jun '21	18 Jun '21	HK Working Day	416	418	0%	NA	NA
418	Grouting Works (30 meter/day)	7 days	19 Jun '21	26 Jun '21	HK Working Day	417	419,421	0%	NA	NA
419	Pipe Connection Inside Pit N	12 days	28 Jun '21	12 Jul '21	HK Working Day	410,418	420	0%	NA	NA
420	Remove ELS including extracting sheet piles at Pit N; Reinstatement of Cycle Track and planter	24 days	13 Jul '21	9 Aug '21	HK Working Day	419		0%	NA	NA
421	Pipe Connection in side Pit O	12 days	2 Oct '21	16 Oct '21	HK Working Day	427,418	422	0%	NA	NA
422	Remove ELS including extracting sheet piles at Pit O; Reinstatement of Cycle Track and planter	24 days	18 Oct '21	13 Nov '21	HK Working Day	421		0%	NA	NA
423	DN1200 Pipelaying (Pit O to Pit P)	71 days	9 Jul '21	30 Sep '21	HK Working Day			0%	NA	NA
424	Setup for Pipe Laying inside jacking Pit O	6 days	9 Jul '21	15 Jul '21	HK Working Day	377	425	0%	NA	NA
425	DN1200 MS Pipe Laying inside jacking pipe (200m) (2 days per 8m)(Only Internal Coating)	55 days	16 Jul '21	17 Sep '21	HK Working Day	424	426	0%	NA	NA
426	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	18 Sep '21	21 Sep '21	HK Working Day	425	427	0%	NA	NA
427	Grouting Works (30 meter/day)	7 days	23 Sep '21	30 Sep '21	HK Working Day	426	421	0%	NA	NA
428	Trenchless Work from KMB Depot to Po Hong Road (Pit P to Pit R)	515 days	3 Aug '20	29 Apr '22	HK Working Day		642	25%	3 Aug '20	NA
429	Issue CE No. 51 - Realignment of Water Main in Tsui Lam Section	0 days	3 Aug '20	3 Aug '20	Calendar Day		436,431,5	100%	3 Aug '20	3 Aug '20



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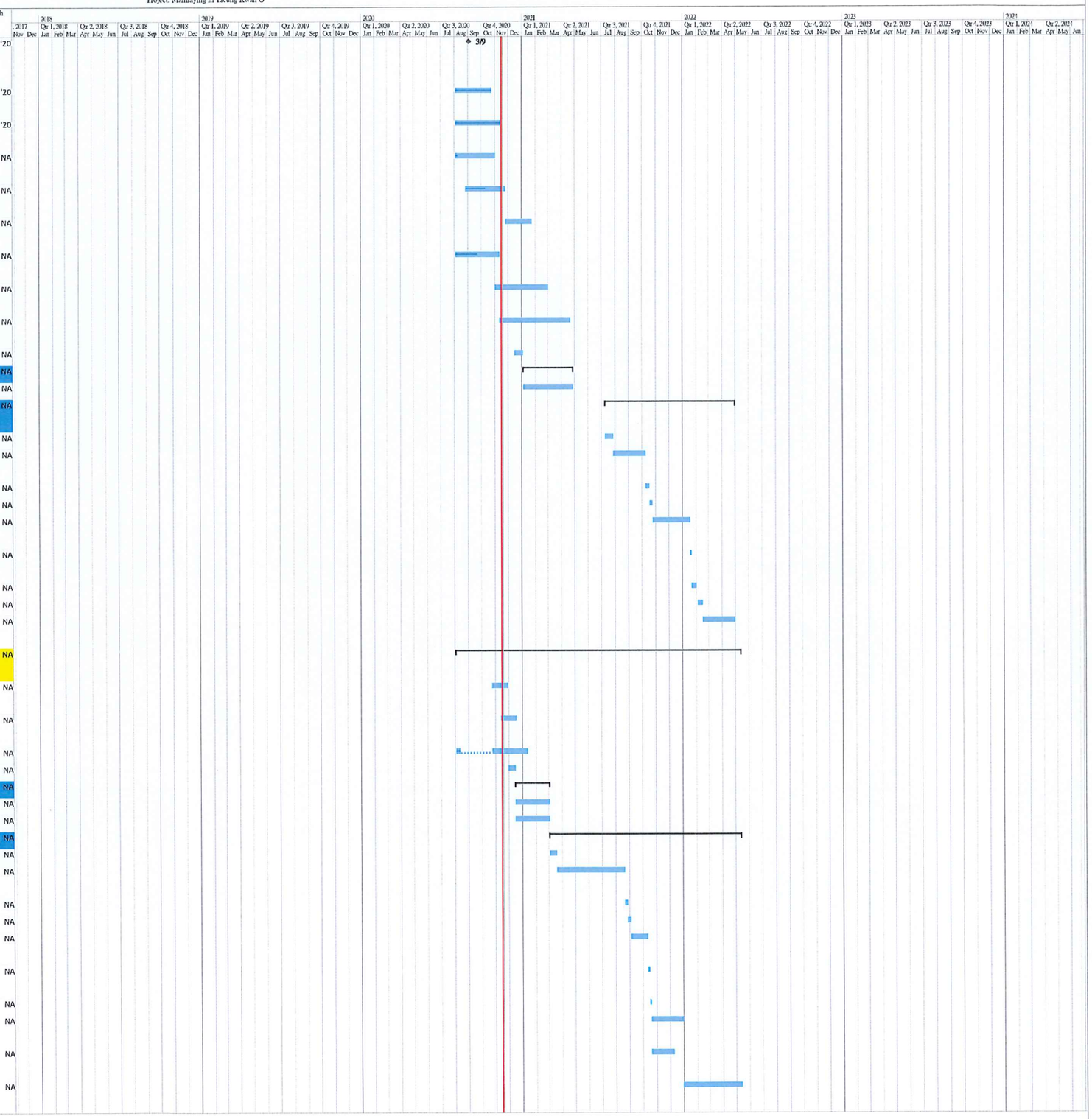
Task | Split | Milestone | Summary | Project Summary | Inactive Task | Inactive Milestone | Inactive Summary | Manual Task | Duration-only | Manual Summary Rollup | Manual Summary | Start-only | Finish-only | External Tasks | External Milestone | Deadline | Critical | Critical Split | Progress | Manual Progress

ID	Task Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish
430	Issue WSD Letter Ref.: (4) in WSD/M/7503/13/WSD/16/M15/300/51 for aditional works to CE No. 51	0 days	3 Sep '20	3 Sep '20	Calendar Day		558	100%	3 Sep '20	3 Sep '20
431	Tendering Process, Tender Award for CE No. 51 (Batch No, 1)	82 days	3 Aug '20	23 Oct '20	Calendar Day	429	438,453,4!	100%	3 Aug '20	23 Oct '20
432	Tendering Process, Tender Award for CE No. 51 (Batch No. 2)	102 days	3 Aug '20	12 Nov '20	Calendar Day	429	454	100%	3 Aug '20	12 Nov '20
433	Tendering Process, Tender Award for CE No. 51 (Batch No. 3))	90 days	3 Aug '20	31 Oct '20	Calendar Day	429	437,556	5%	3 Aug '20	NA
434	Tendering Process, Tender Award for CE No. 51 (Location A Mini-pile Works)	90 days	26 Aug '20	23 Nov '20	Calendar Day		435	50%	26 Aug '20	NA
435	Tendering Process, Tender Award for CE No. 51 (Location B Mini-pile Works)	60 days	24 Nov '20	22 Jan '21	Calendar Day	434		0%	NA	NA
436	TTA preparation, SLG meetings, obtain RA and implement Advanced Works	100 days	3 Aug '20	10 Nov '20	Calendar Day	429	438	50%	3 Aug '20	NA
437	Material Submission, Procurement of top coat of aliphatic polyurethance for exposed pipes	120 days	1 Nov '20	28 Feb '21	Calendar Day	433		0%	NA	NA
438	Forming New Vehicle Access at Po Hung Road for Construction of Pit R & Pit S and Trenchless Works	128 days	11 Nov '20	20 Apr '21	HK Working Day	436,431		0%	NA	NA
439	Inspection Pit Excavation at Pit R	14 days	15 Dec '20	2 Jan '21	HK Working Day		441	0%	NA	NA
440	Construction of Receiving Pit R	90 days	4 Jan '21	26 Apr '21	HK Working Day			0%	NA	NA
441	Construction of Receiving Pit R	90 days	4 Jan '21	26 Apr '21	HK Working Day	439	443	0%	NA	NA
442	TBM Pipe Jacking (Pit P to Pit R) accrossing KMB Depot & Po Hung Road	240 days	9 Jul '21	29 Apr '22	HK Working Day			0%	NA	NA
443	Establishment at Pit P	15 days	9 Jul '21	26 Jul '21	HK Working Day	441,377	444	0%	NA	NA
444	DN1600 Precast Concrete Sleeve Pipe (Pit P - Pit R) (say 248m) in Soil (4m/day)	62 days	27 Jul '21	8 Oct '21	HK Working Day	443	445	0%	NA	NA
445	Remove setup including thrust wall at Pit P	6 days	9 Oct '21	16 Oct '21	HK Working Day	444	446	0%	NA	NA
446	Setup for Pipe Laying inside jacking Pit Q	6 days	18 Oct '21	23 Oct '21	HK Working Day	445	447	0%	NA	NA
447	DN1200 MS Pipe Laying inside jacking pipe (248m) (2 days per 8m)(Only Internal Coating)	70 days	25 Oct '21	17 Jan '22	HK Working Day	446	448	0%	NA	NA
448	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	18 Jan '22	20 Jan '22	HK Working Day	447	449	0%	NA	NA
449	Grouting Works (30 meter/day)	9 days	21 Jan '22	31 Jan '22	HK Working Day	448	450	0%	NA	NA
450	Pipe connection inside Pit P	9 days	4 Feb '22	14 Feb '22	HK Working Day	449	451	0%	NA	NA
451	Construction of Combined Inspection and Washout Chamber Type II at Pit P	60 days	15 Feb '22	29 Apr '22	HK Working Day	450		0%	NA	NA
452	Open Trench from Pit R to Pit S & Trenchless Works from Pit S to Pit T	524 days	3 Aug '20	12 May '22	HK Working Day		642	1%	3 Aug '20	NA
453	Batch No 1 - Temporary Works Design and Preliminary Works	30 days	24 Oct '20	28 Nov '20	HK Working Day	431	456,473	0%	NA	NA
454	Batch No 2 - Temporary Works Design and Preliminary Works	30 days	13 Nov '20	17 Dec '20	HK Working Day	432	474,479,4!	0%	NA	NA
455	Material Procurement for the issued CE	90 days	3 Aug '20	12 Jan '21	Calendar Day	431		10%	3 Aug '20	NA
456	Inspection Pit Excavation at Pit S & Pit T	14 days	30 Nov '20	15 Dec '20	HK Working Day	453	458,459,4	0%	NA	NA
457	Construction of Jacking Pits	60 days	16 Dec '20	2 Mar '21	HK Working Day			0%	NA	NA
458	Pit S at CH.HA0+30	60 days	16 Dec '20	2 Mar '21	HK Working Day	456	461	0%	NA	NA
459	Pit T at CH.HA0+80	60 days	16 Dec '20	2 Mar '21	HK Working Day	456	461	0%	NA	NA
460	Hand shield Pipe Jacking (Pit S to Pit T)	351 days	3 Mar '21	12 May '22	HK Working Day			0%	NA	NA
461	Establishment at Pit S	14 days	3 Mar '21	18 Mar '21	HK Working Day	458,459	462	0%	NA	NA
462	Mild Steel Sleeve Pipe in Mix of Soil & Rock (0.2m / day; two teams)	125 days	19 Mar '21	20 Aug '21	HK Working Day	461	463	0%	NA	NA
463	Remove Setup including Thrust Wall at Pit S	6 days	21 Aug '21	27 Aug '21	HK Working Day	462	464	0%	NA	NA
464	Setup for Pipe Laying inside Jacking Pit S	6 days	28 Aug '21	3 Sep '21	HK Working Day	463	465	0%	NA	NA
465	DN1200 MS Pipe Laying inside Jacking Pipe (2 days per 4m pipe)(Only Internal Coating)	30 days	4 Sep '21	11 Oct '21	HK Working Day	464	466	0%	NA	NA
466	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	12 Oct '21	15 Oct '21	HK Working Day	465	467	0%	NA	NA
467	Grouting Works (30m per day)	2 days	16 Oct '21	18 Oct '21	HK Working Day	466	468,469	0%	NA	NA
468	Construction of Combined Inspection and Washout Chamber Type I at Pit S	60 days	19 Oct '21	29 Dec '21	HK Working Day	467	470	0%	NA	NA
469	Install Inspection Tree at Pit T and Construction of Chamber	45 days	19 Oct '21	9 Dec '21	HK Working Day	467		0%	NA	NA
470	Open Cut, between Pit R and Pit S with inspection Tee and Washout Chamber at Pit R	105 days	30 Dec '21	12 May '22	HK Working Day	468		0%	NA	NA



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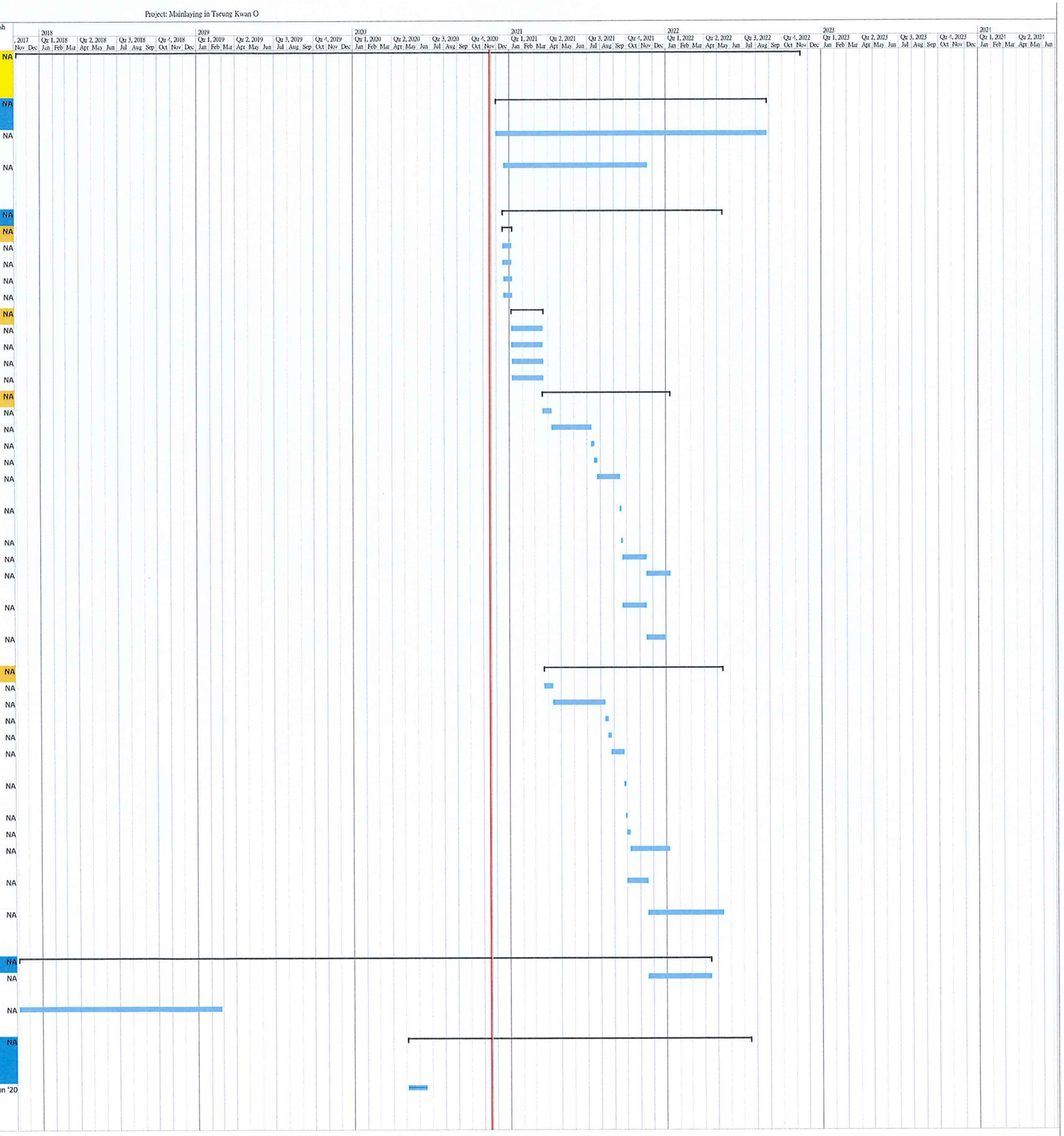
Project: Mainlaying in Tseung Kwan O

ID	Task Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish
471	Open Cut Excavation, Pipe Laying and Reinstatement at Abandoned Road / Mau Wu Tsai Village / Po Lam Road North	1486 days	7 Nov '17	12 Nov '22	HK Working Day			6%	7 Nov '17	NA
472	Open Trench Pipelaying at Abandoned Road & Mau Wu Tsai Village	513 days	30 Nov '20	25 Aug '22	HK Working Day		642	0%	NA	NA
473	CH.HA0+80 to HA3+45 (Depth < 2.5m, each TTA 30m length) (Option C)	513 days	30 Nov '20	25 Aug '22	HK Working Day	453		0%	NA	NA
474	CH.HA3+75 to HA5+55 (Depth < 2.5m, each TTA 24-30m length) (Option G) with Construction of DAV Chamber	270 days	18 Dec '20	17 Nov '21	HK Working Day	454	511	0%	NA	NA
475	Trenchless Work at Mau Wu Tsui Village	412 days	16 Dec '20	13 May '22	HK Working Day		642	0%	NA	NA
476	Inspection Pit Excavation	16 days	16 Dec '20	6 Jan '21	HK Working Day			0%	NA	NA
477	Inspection Pit Excavation at Pit U	14 days	16 Dec '20	4 Jan '21	HK Working Day	456		0%	NA	NA
478	Inspection Pit Excavation at Pit V	14 days	16 Dec '20	4 Jan '21	HK Working Day	456	482,483	0%	NA	NA
479	Inspection Pit Excavation at Pit W	14 days	18 Dec '20	6 Jan '21	HK Working Day	454	484	0%	NA	NA
480	Inspection Pit Excavation at Pit X	14 days	18 Dec '20	6 Jan '21	HK Working Day	454	485	0%	NA	NA
481	Construction of Jacking / Receiving Pits	62 days	5 Jan '21	20 Mar '21	HK Working Day			0%	NA	NA
482	Jacking Pit U	60 days	5 Jan '21	18 Mar '21	HK Working Day	478	487	0%	NA	NA
483	Receiving Pit V	60 days	5 Jan '21	18 Mar '21	HK Working Day	478	487	0%	NA	NA
484	Jacking Pit W	60 days	7 Jan '21	20 Mar '21	HK Working Day	479	499	0%	NA	NA
485	Receiving Pit X	60 days	7 Jan '21	20 Mar '21	HK Working Day	480	499	0%	NA	NA
486	Hand Shield Pipe Jacking from Pit U to Pit V (~30m)	241 days	19 Mar '21	10 Jan '22	HK Working Day			0%	NA	NA
487	Establishment at Pit U	14 days	19 Mar '21	8 Apr '21	HK Working Day	483,482	488	0%	NA	NA
488	Mild Steel Sleeve Pipe in Mix of Soil (0.4m / day)	75 days	9 Apr '21	9 Jul '21	HK Working Day	487	489	0%	NA	NA
489	Remove Setup including Thrust Wall at Pit U	6 days	10 Jul '21	16 Jul '21	HK Working Day	488	490	0%	NA	NA
490	Setup for Pipe Laying inside Jacking Pit U	6 days	17 Jul '21	23 Jul '21	HK Working Day	489	491	0%	NA	NA
491	DN1200 MS Pipe Laying inside Jacking Pipe (3 days per 2m)	45 days	24 Jul '21	14 Sep '21	HK Working Day	490	492	0%	NA	NA
492	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	15 Sep '21	17 Sep '21	HK Working Day	491	493	0%	NA	NA
493	Grouting Works (30m per day)	2 days	18 Sep '21	20 Sep '21	HK Working Day	492	494,496	0%	NA	NA
494	Construction of Washout Chamber at Pit U	45 days	21 Sep '21	15 Nov '21	HK Working Day	493	495	0%	NA	NA
495	Open Cut, connecting CH. HA3+45 to DN1200 pipe end at Pit U with Inspection Tee at Pit U	45 days	16 Nov '21	10 Jan '22	HK Working Day	494		0%	NA	NA
496	Install inspection Tree at Pit V and Construction of chamber	45 days	21 Sep '21	15 Nov '21	HK Working Day	493	497	0%	NA	NA
497	Open Cut, connecting CH. HA3+75 to DN1200 pipe end at Pit V	35 days	16 Nov '21	28 Dec '21	HK Working Day	496		0%	NA	NA
498	Hand Shield Pipe Jacking from Pit W to Pit X (~85m)	336 days	22 Mar '21	13 May '22	HK Working Day			0%	NA	NA
499	Establishment at Pit W	14 days	22 Mar '21	10 Apr '21	HK Working Day	485,484	500	0%	NA	NA
500	Mild Steel Sleeve Pipe in Mix of Soil (0.4m / day)	100 days	12 Apr '21	10 Aug '21	HK Working Day	499	501	0%	NA	NA
501	Remove Setup including Thrust Wall at Pit U	6 days	11 Aug '21	17 Aug '21	HK Working Day	500	502	0%	NA	NA
502	Setup for Pipe Laying inside Jacking Pit U	6 days	18 Aug '21	24 Aug '21	HK Working Day	501	503	0%	NA	NA
503	DN900 MS Pipe Laying inside Jacking Pipe (2 days per 4m)(Only Internal Coating)	25 days	25 Aug '21	23 Sep '21	HK Working Day	502	504	0%	NA	NA
504	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	24 Sep '21	27 Sep '21	HK Working Day	503	505	0%	NA	NA
505	Grouting Works (30m per day)	2 days	28 Sep '21	29 Sep '21	HK Working Day	504	506,508	0%	NA	NA
506	Install inspection tee at Pit W	6 days	30 Sep '21	7 Oct '21	HK Working Day	505	507	0%	NA	NA
507	Open Cut, connecting CH. HA5+55 to DN900 pipe end at Pit W	75 days	8 Oct '21	7 Jan '22	HK Working Day	506		0%	NA	NA
508	Install inspection tee at Pit X & Construction of Chamber	40 days	30 Sep '21	17 Nov '21	HK Working Day	505	509	0%	NA	NA
509	Open Cut, connecting CH. HA6+63 to DN1200 pipe end at Pit X with DN900 Valve Chamber & DAV Chamber	140 days	18 Nov '21	13 May '22	HK Working Day	508		0%	NA	NA
510	Open Trench Pipe Laying at Po Lam Road North	1314 days	7 Nov '17	14 Apr '22	HK Working Day		643	0%	NA	NA
511	CH.HA6+63 to HA7+46 (Depth < 2.5m, each TTA 30m length) (Option G)	120 days	18 Nov '21	14 Apr '22	HK Working Day	474,512		0%	NA	NA
512	CH.HC0+00 to HC3+17 (Depth < 2.5m, each TTA max. 20m length) (Option G)	384 days	7 Nov '17	23 Feb '19	HK Working Day		511	0%	NA	NA
513	Water Main Structure and Associated Pipe Support across the Natural Stream Course (CH. HB0+00 ~ CH.HB0+94)	653 days	5 May '20	16 Jul '22	HK Working Day		643	19%	5 May '20	NA
514	Design Submission (CE No. 55) for Water Main Structure and Associated Pipe Support across the Natural Stream Course	37 days	5 May '20	16 Jun '20	HK Working Day		515	100%	5 May '20	16 Jun '20



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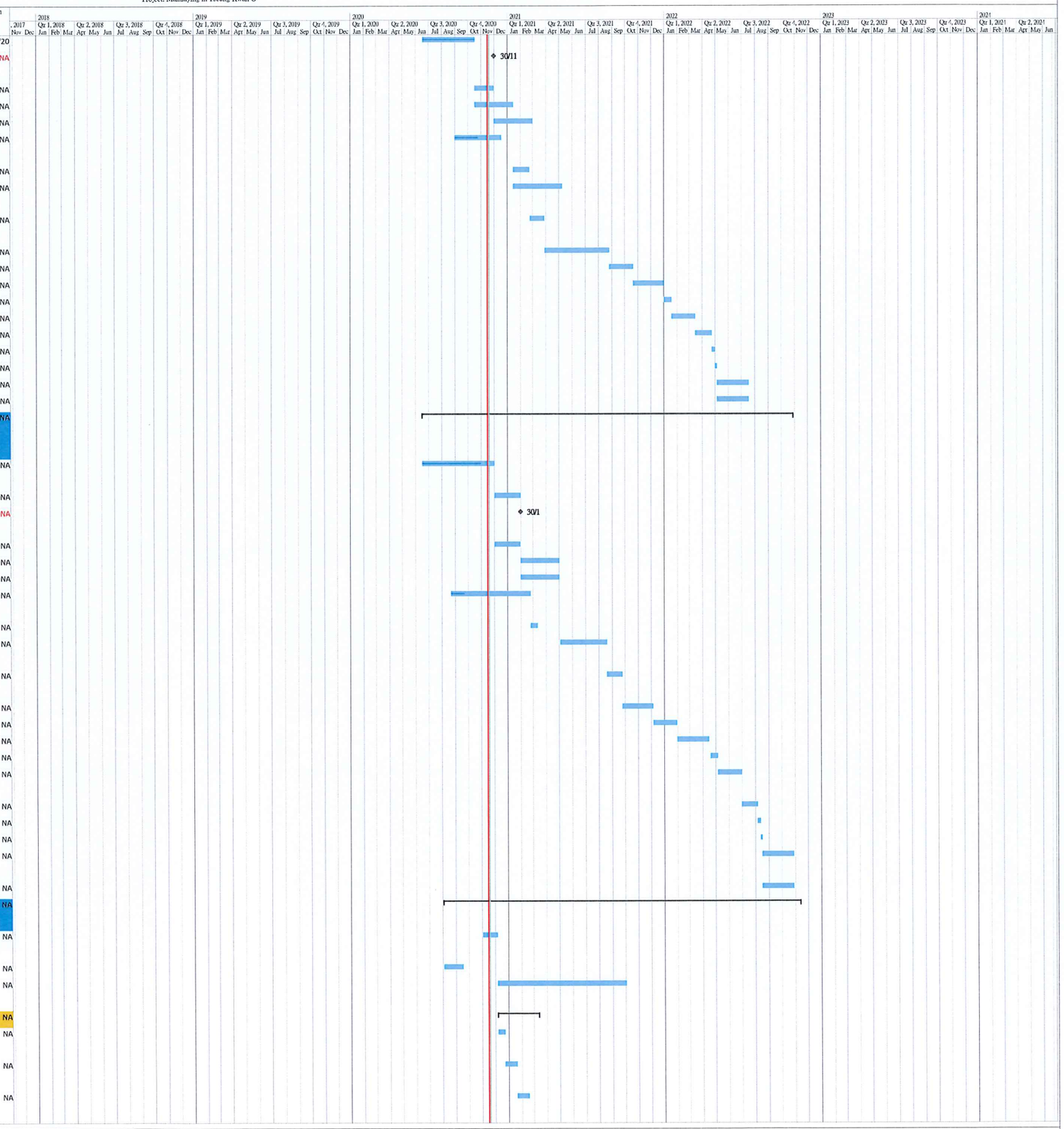
Project: Mainlaying in Tseung Kwan O

ID	Task Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish
515	WSD & GEO Review and Approve	121 days	17 Jun '20	15 Oct '20	Calendar Day	514	517,518	100%	17 Jun '20	15 Oct '20
516	Issue CE No. xx - Mini-pile Suppoty and Pipework across the Natural Stream Course	0 days	30 Nov '20	30 Nov '20	Calendar Day		519	0%	NA	NA
517	TTA preparation, SLG meetings, obtain RA	45 days	16 Oct '20	29 Nov '20	Calendar Day	515		0%	NA	NA
518	Tender and Subletting	90 days	16 Oct '20	13 Jan '21	Calendar Day	515	521,522	0%	NA	NA
519	Material procurement for the issued CE	90 days	30 Nov '20	27 Feb '21	Calendar Day	516	524	0%	NA	NA
520	Tree survey, TPRP approval and site clearance works	90 days	31 Aug '20	16 Dec '20	HK Working Day			50%	31 Aug '20	NA
521	Advanced Works	30 days	14 Jan '21	20 Feb '21	HK Working Day	518	523	0%	NA	NA
522	Design and Construction Working Platform on Slope for Piling Works	90 days	14 Jan '21	7 May '21	HK Working Day	518		0%	NA	NA
523	Pre-drilling works & confirmation of rock head and depth of mini-pile	30 days	22 Feb '21	27 Mar '21	HK Working Day	521	524	0%	NA	NA
524	Mini-pile Construction (2 Workfront)	120 days	29 Mar '21	24 Aug '21	HK Working Day	519,523	525	0%	NA	NA
525	Loading Test (One Tensile & One Compression)	45 days	25 Aug '21	19 Oct '21	HK Working Day	524	526	0%	NA	NA
526	Construction Pile Caps and Piers	60 days	20 Oct '21	30 Dec '21	HK Working Day	525	527	0%	NA	NA
527	Temporary Working Platform for Pipe Installation	14 days	31 Dec '21	17 Jan '22	HK Working Day	526	528	0%	NA	NA
528	Pipe Installation / Welding / Testing / Painting (~115m	45 days	18 Jan '22	14 Mar '22	HK Working Day	527	529	0%	NA	NA
529	Concrete Hunching	30 days	15 Mar '22	22 Apr '22	HK Working Day	528	530	0%	NA	NA
530	Apply top coating of aliphatic polyurethane on site	6 days	23 Apr '22	29 Apr '22	HK Working Day	529	531	0%	NA	NA
531	Remove Temporary Working Platform	3 days	30 Apr '22	4 May '22	HK Working Day	530	532,533	0%	NA	NA
532	Open Cut, Connection to CH.HA7+50	60 days	5 May '22	16 Jul '22	HK Working Day	531		0%	NA	NA
533	Open Cut, Connection to CH.HC0+00	60 days	5 May '22	16 Jul '22	HK Working Day	531		0%	NA	NA
534	Water Main Structure and Associated Pipe Support from Po Lam Road to Tsui Lam Road (CH. HD0+00 ~ CH. HD1+01)	702 days	16 Jun '20	27 Oct '22	HK Working Day		643	13%	16 Jun '20	NA
535	Design Submmission (CE No. 62) for Water Main Structure and Associated at Tsui Lam (Location B)	139 days	16 Jun '20	30 Nov '20	HK Working Day		536,538	81%	16 Jun '20	NA
536	WSD & GEO Review and Approve	61 days	1 Dec '20	30 Jan '21	Calendar Day	535	537,539	0%	NA	NA
537	Expected CE No. XX - Mini-pile support and pipework at Tsui Lam (Location B)	0 days	30 Jan '21	30 Jan '21	Calendar Day	536	540	0%	NA	NA
538	TTA preparation, SLG meetings, obtain RA	60 days	1 Dec '20	29 Jan '21	Calendar Day	535		0%	NA	NA
539	Tender and Subletting	90 days	31 Jan '21	30 Apr '21	Calendar Day	536	543	0%	NA	NA
540	Material procurement for the issued CE	90 days	31 Jan '21	30 Apr '21	Calendar Day	537		0%	NA	NA
541	Tree survey, TPRP approval and Tree Removal Works	150 days	21 Aug '20	22 Feb '21	HK Working Day		542	18%	21 Aug '20	NA
542	Tree Removal Works & Site Clearance	14 days	23 Feb '21	10 Mar '21	HK Working Day	541		0%	NA	NA
543	Design and Construction Working Platform on Slope for Piling Works	90 days	3 May '21	18 Aug '21	HK Working Day	539	544	0%	NA	NA
544	Pre-drilling works & confirmation of rock head and depth of mini-pile	30 days	19 Aug '21	23 Sep '21	HK Working Day	543	545	0%	NA	NA
545	Mini-pile Construction (2 Workfront)	60 days	24 Sep '21	4 Dec '21	HK Working Day	544	546	0%	NA	NA
546	Loading Test (One Tensile & One Compression)	45 days	6 Dec '21	29 Jan '22	HK Working Day	545	547	0%	NA	NA
547	Construction Pile Caps and Piers	60 days	31 Jan '22	14 Apr '22	HK Working Day	546	548	0%	NA	NA
548	Temporary Working Platform for Pipe Installation	14 days	19 Apr '22	5 May '22	HK Working Day	547	549	0%	NA	NA
549	Pipe Installation / Welding / Testing / Painting (~115m)	45 days	6 May '22	29 Jun '22	HK Working Day	548	550	0%	NA	NA
550	Concrete Hunching	30 days	30 Jun '22	4 Aug '22	HK Working Day	549	551	0%	NA	NA
551	Apply top coating of aliphatic polyurethane on site	6 days	5 Aug '22	11 Aug '22	HK Working Day	550	552	0%	NA	NA
552	Remove Temporary Working Platform	3 days	12 Aug '22	15 Aug '22	HK Working Day	551	553,554	0%	NA	NA
553	Open Cut, Connection to CH.HC3+17 with DAV Chamber	60 days	16 Aug '22	27 Oct '22	HK Working Day	552		0%	NA	NA
554	Open Cut, Connection to CH.HE0+15	60 days	16 Aug '22	27 Oct '22	HK Working Day	552		0%	NA	NA
555	From Tsui Lam Road to TKO Freshwater PSR (CH. HE.0+00 ~ CH. HE2+00) & (CH.J0+00 CH.J0+57)	677 days	3 Aug '20	12 Nov '22	HK Working Day		643	0%	NA	NA
556	Batch No 3 - Temporary Works Design and Preliminary Works	30 days	2 Nov '20	5 Dec '20	HK Working Day	433	558,560	0%	NA	NA
557	TTA preparation, SLG meetings, obtain RA	45 days	3 Aug '20	16 Sep '20	Calendar Day	429		0%	NA	NA
558	Material procurement (DN800 MS PIPE & Butterfly Valve) for the issued CE	300 days	6 Dec '20	1 Oct '21	Calendar Day	430,556		0%	NA	NA
559	Inspection Pit Excavation	77 days	7 Dec '20	12 Mar '21	None			0%	NA	NA
560	Inspection Pit Excavation at both side footpath of Tsui Lam Road	14 days	7 Dec '20	22 Dec '20	HK Working Day	556	565,561	0%	NA	NA
561	Inspection Pit Excavation for DN800 Connection at CH.HE2+06	21 days	23 Dec '20	19 Jan '21	HK Working Day	560	562	0%	NA	NA
562	Inspection Pit Excavation for DN800 EMF & BV at CH.HE1+90	21 days	20 Jan '21	16 Feb '21	HK Working Day	561	563,568	0%	NA	NA



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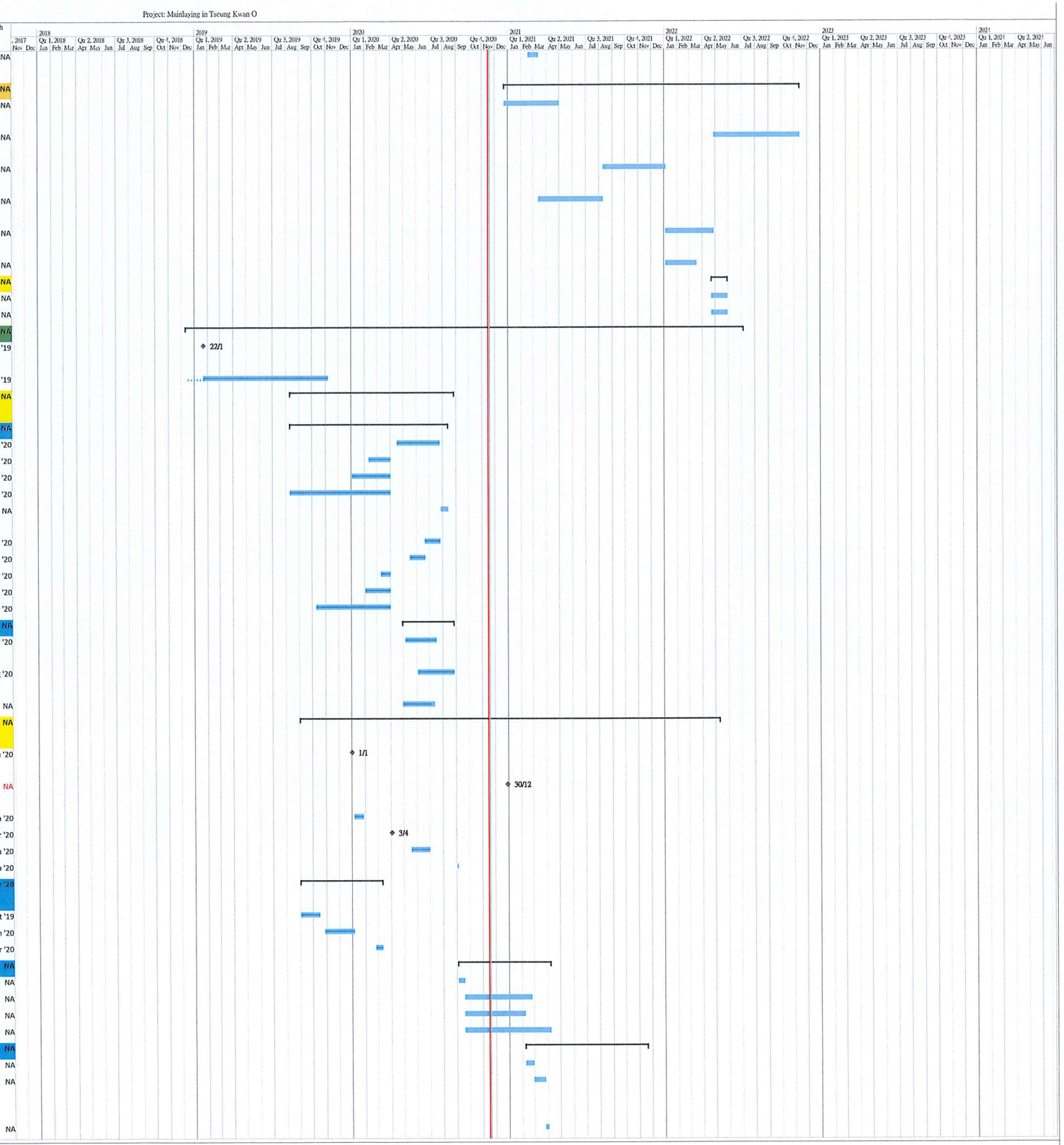
Task | Split | Milestone | Summary | Project Summary | Inactive Task | Inactive Milestone | Inactive Summary | Manual Task | Duration-only | Manual Summary Rollup | Manual Summary | Start-only | Finish-only | External Tasks | External Milestone | Deadline | Critical | Critical Split | Progress | Manual Progress

ID	Task Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish
563	Inspection Pit Excavation for DN800 EMF & BV at CH.HE1+70	21 days	17 Feb '21	12 Mar '21	HK Working Day	562	568	0%	NA	NA
564	Excavation, Pipelaying & Reinstatement	558 days	23 Dec '20	12 Nov '22	None			0%	NA	NA
565	Open Cut across Tsui Lam Road (CH. HE0+00 to 0+15) (Two Stages)	100 days	23 Dec '20	29 Apr '21	HK Working Day	560		0%	NA	NA
566	Open Cut, CH. HE0+15 ~ CH.HE1+55) with DAV Chamber	165 days	27 Apr '22	12 Nov '22	HK Working Day	569		0%	NA	NA
567	Open Cut, DN800 (CH.HE1+55 ~ CH.HE1+80) with DN800 EMF & BV	120 days	10 Aug '21	3 Jan '22	HK Working Day	568	570,655,5	0%	NA	NA
568	Open Cut, DN800 (CH.HE1+80 ~ CH.HE2+00) with DN800 EMF & BV	120 days	13 Mar '21	9 Aug '21	HK Working Day	562,563	567,655,5	0%	NA	NA
569	Construction of flowmeter kiosks and GI cable ducts	90 days	4 Jan '22	26 Apr '22	HK Working Day	568,567	566	0%	NA	NA
570	Pipelaying, DN800 (CH. J0+00 ~ J0+057)	60 days	4 Jan '22	17 Mar '22	HK Working Day	567	655	0%	NA	NA
571	Final Connection to TKO Fresh Water Service Reservoir	30 days	22 Apr '22	28 May '22	HK Working Day			0%	NA	NA
572	Final Connection of DN800 (CH.HE2+00 ~ HE.2_06)	30 days	22 Apr '22	28 May '22	HK Working Day	654		0%	NA	NA
573	Final Connection of DN800 (CH.J0+57 ~ Reservoir)	30 days	22 Apr '22	28 May '22	HK Working Day	654		0%	NA	NA
574	Mainlaying in Tseung Kwan O Area 137 (Portion H)	1051 days	11 Dec '18	4 Jul '22	HK Working Day			59%	11 Dec '18	NA
575	Issue Date of CE07 -Water Supply to TKO Desalination Plant at Portion H (NS250 HDPE Pipe)	0 days	22 Jan '19	22 Jan '19	Calendar Day		576	100%	22 Jan '19	22 Jan '19
576	Material Procurement and Delivery in Batches	330 days	11 Dec '18	5 Nov '19	Calendar Day	575		100%	11 Dec '18	5 Nov '19
577	Ope Cut Excavation, Pipe Laying and Reinstatement at TKO Area 137	311 days	10 Aug '19	26 Aug '20	HK Working Day			98%	10 Aug '19	NA
578	DN1200 MS PIPE + NS250 HDPE PIPE - Open Cut	299 days	10 Aug '19	12 Aug '20	HK Working Day			98%	10 Aug '19	NA
579	CH. CT1+51 - 265 DN1200 MS Pipe OC	82 days	16 Apr '20	24 Jul '20	None			100%	16 Apr '20	24 Jul '20
580	CH. CT0+51 - 1+51 DN1200 MS Pipe OC	44 days	10 Feb '20	31 Mar '20	HK Working Day			100%	10 Feb '20	31 Mar '20
581	CH. CT0+00 - 0+51 DN1200 MS Pipe OC	74 days	2 Jan '20	31 Mar '20	HK Working Day			100%	2 Jan '20	31 Mar '20
582	CH. CA0+00 - 4+00 DN1200 MS Pipe OC	192 days	10 Aug '19	31 Mar '20	HK Working Day	5		100%	10 Aug '19	31 Mar '20
583	CH. KT2+80 - 3+60 NS250 HDPE Pipe OC with additional Tees and fire Hydrant	14 days	28 Jul '20	12 Aug '20	HK Working Day			0%	NA	NA
584	CH. KT2+23 - 2+80 NS250 HDPE Pipe OC	29 days	20 Jun '20	25 Jul '20	HK Working Day			100%	20 Jun '20	25 Jul '20
585	CH. KT1+51 - 2+23 NS250 HDPE Pipe OC	31 days	16 May '20	20 Jun '20	HK Working Day			100%	16 May '20	20 Jun '20
586	CH. KT0+51 - 1+51 NS250 HDPE Pipe OC	19 days	10 Mar '20	31 Mar '20	HK Working Day			100%	10 Mar '20	31 Mar '20
587	CH. KT0+00 - 0+51 NS250 HDPE Pipe OC	50 days	2 Feb '20	31 Mar '20	HK Working Day			100%	2 Feb '20	31 Mar '20
588	CH. KA0+00 - 4+00 NS250 HDPE Pipe OC	143 days	10 Oct '19	31 Mar '20	HK Working Day			100%	10 Oct '19	31 Mar '20
589	Construction of Chambers	99 days	29 Apr '20	26 Aug '20	HK Working Day			97%	29 Apr '20	NA
590	Combined DAV & IT Chamber for DN1200 MS pipe at CH. CT2+47	60 days	5 May '20	15 Jul '20	HK Working Day			100%	5 May '20	15 Jul '20
591	Combined Washout Pump Pit for DN1200 MS pipe and NS250 HDPE pipe at CH.CT2+43	71 days	3 Jun '20	26 Aug '20	HK Working Day			100%	3 Jun '20	26 Aug '20
592	DN900 Valve Chamber with by-pass pipes at CH.CA4+	60 days	29 Apr '20	11 Jul '20	HK Working Day			90%	29 Apr '20	NA
593	Trenchless Works (DN1200 MS PIPE + NS250 HDPE PIPE) at TKO Area 137	793 days	2 Sep '19	10 May '22	HK Working Day		638,659	16%	2 Sep '19	NA
594	Issue CE No. 17 - Realignment of Water Main by Trenchless Method in TKO Area 137	0 days	1 Jan '20	1 Jan '20	Calendar Day			100%	1 Jan '20	1 Jan '20
595	Expected Issue CE No. 57 - Realignment of Water Main by Trenchless Method in SENTX	0 days	30 Dec '20	30 Dec '20	Calendar Day		599	0%	NA	NA
596	Tendering & Approval	21 days	6 Jan '20	26 Jan '20	Calendar Day			100%	6 Jan '20	26 Jan '20
597	WSD instructed to retender	0 days	3 Apr '20	3 Apr '20	Calendar Day		598	100%	3 Apr '20	3 Apr '20
598	Retendering, Review & Approval	43 days	18 May '20	29 Jun '20	Calendar Day	597	599	100%	18 May '20	29 Jun '20
599	Issue LOA	1 day	3 Sep '20	3 Sep '20	Calendar Day	598,595	605	100%	3 Sep '20	3 Sep '20
600	Trial Pit Excavation for Trenchless Works at TKO Area 137	156 days	2 Sep '19	11 Mar '20	HK Working Day			100%	2 Sep '19	11 Mar '20
601	Pit 137A	35 days	2 Sep '19	15 Oct '19	HK Working Day			100%	2 Sep '19	15 Oct '19
602	Pit 137B	57 days	28 Oct '19	4 Jan '20	HK Working Day			100%	28 Oct '19	4 Jan '20
603	Pit 137C	14 days	25 Feb '20	11 Mar '20	HK Working Day			100%	25 Feb '20	11 Mar '20
604	Construction of jacking / Receiving Pits	172 days	4 Sep '20	7 Apr '21	HK Working Day			0%	NA	NA
605	Mobilization and Setup & Preliminary Works	15 days	4 Sep '20	18 Sep '20	Calendar Day	599	606,607,6	0%	NA	NA
606	Receiving Pit 137A (Renopipe)	125 days	19 Sep '20	22 Feb '21	HK Working Day	605		0%	NA	NA
607	Jacking / Receiving Pit 137B (Renopipe)	115 days	19 Sep '20	6 Feb '21	HK Working Day	605	610	0%	NA	NA
608	Jacking Pit 137C (renopipe)	159 days	19 Sep '20	7 Apr '21	HK Working Day	605	622	0%	NA	NA
609	TBM Pipe Jacking From Pit 137B to Pit 137A	231 days	8 Feb '21	19 Nov '21	HK Working Day		73	0%	NA	NA
610	Establishment at Pit 137B	14 days	8 Feb '21	26 Feb '21	HK Working Day	607	611	0%	NA	NA
611	OD1920 Steel Sleeve Pipe for both DN1200 & NS250 (Pit 137B - Pit 137A) (CH.CC0+10 to CH.CC.1+24) in Soil (114m; 5m/day)	23 days	27 Feb '21	25 Mar '21	HK Working Day	610	612	0%	NA	NA
612	Remove setup at Pit 137B	6 days	26 Mar '21	1 Apr '21	HK Working Day	611	613,622	0%	NA	NA



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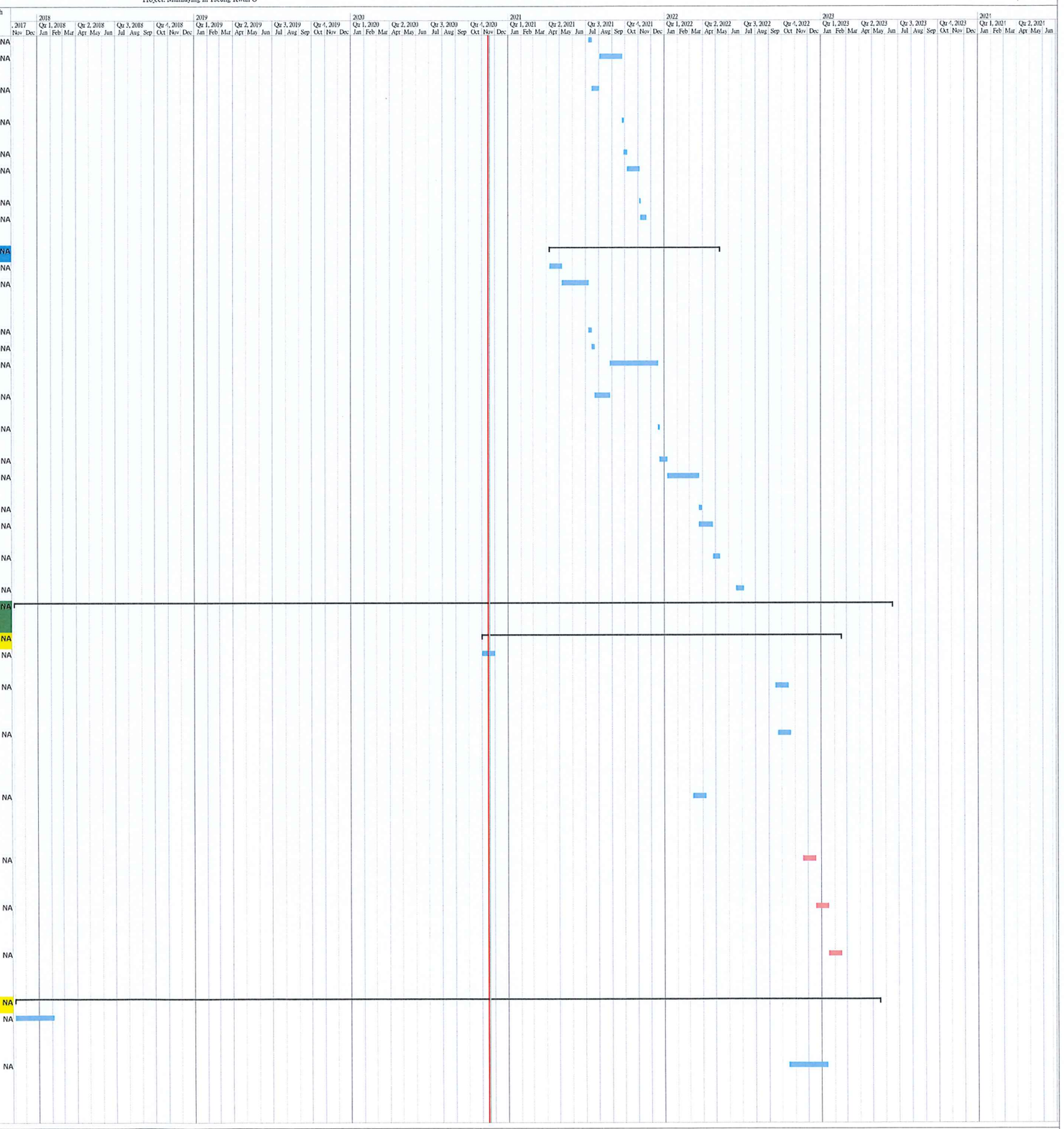
ID	Task Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish
613	Setup for Pipe Laying inside jacking Pits B	6 days	8 Jul '21	14 Jul '21	HK Working Day	612,623	615	0%	NA	NA
614	DN1200 MS Pipe Laying inside jacking pipe (114m) (8m per 3 day)	45 days	2 Aug '21	23 Sep '21	HK Working Day	615	616	0%	NA	NA
615	NS250 HDPE Pipe Laying inside jacking pipe (114m) (8m per day)	15 days	15 Jul '21	31 Jul '21	HK Working Day	613	614	0%	NA	NA
616	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	24 Sep '21	27 Sep '21	HK Working Day	614	617	0%	NA	NA
617	Grouting Works (20 meter/day)	6 days	28 Sep '21	5 Oct '21	HK Working Day	616	618	0%	NA	NA
618	Pipe Laying (HB, BVB, Short Pipe), Thrust Block & backfilling inside Pit 137A	24 days	6 Oct '21	3 Nov '21	HK Working Day	617	619	0%	NA	NA
619	Remove ELS and Extract Sheetpile at Pit 137A	2 days	4 Nov '21	5 Nov '21	HK Working Day	618	620	0%	NA	NA
620	Pipe Laying (DN1200 MS Pipe & NS250 HDPE Pipe) From Pit 137A to CH.CC1+38 & KC1+38	12 days	6 Nov '21	19 Nov '21	HK Working Day	619		0%	NA	NA
621	TBM Pipe Jacking From Pit 137C to Pit 137B	322 days	8 Apr '21	10 May '22	HK Working Day			0%	NA	NA
622	Establishment at Pit 137C	24 days	8 Apr '21	6 May '21	HK Working Day	612,608	623	0%	NA	NA
623	OD1920 Steel Sleeve Pipe for both DN1200 & NS250 (Pit 137C - Pit 137B) (CH.CB0+00 to CH.CB.2+46) in Soil (246m; 5m/day)	50 days	7 May '21	7 Jul '21	HK Working Day	622	624,613	0%	NA	NA
624	Remove setup including thrust wall at Pit 137C	6 days	8 Jul '21	14 Jul '21	HK Working Day	623	625	0%	NA	NA
625	Setup for Pipe Laying inside jacking Pit C	6 days	15 Jul '21	21 Jul '21	HK Working Day	624	627	0%	NA	NA
626	DN1200 MS Pipe Laying inside jacking pipe (246m) (3 days per 8m)	93 days	27 Aug '21	16 Dec '21	HK Working Day	627	628	0%	NA	NA
627	NS250 HDPE Pipe Laying inside jacking pipe (246m) (8m per day)	31 days	22 Jul '21	26 Aug '21	HK Working Day	625	626	0%	NA	NA
628	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	17 Dec '21	20 Dec '21	HK Working Day	626	629	0%	NA	NA
629	Grouting Works (20 meter/day)	13 days	21 Dec '21	7 Jan '22	HK Working Day	628	630	0%	NA	NA
630	Construction of Combined Inspection and Washout Chamber (Type III) at Pit 137C	60 days	8 Jan '22	22 Mar '22	HK Working Day	629	632,631	0%	NA	NA
631	Pipe Connection Inside Pit 137C	6 days	23 Mar '22	29 Mar '22	HK Working Day	630		0%	NA	NA
632	Pipe Laying (HB, BVB, Short Pipe), Thrust Block & backfilling inside Pit 137C	24 days	23 Mar '22	23 Apr '22	HK Working Day	630	633	0%	NA	NA
633	Remove ELS and Remove ELS and Extract Sheetpile at Pit 137C	12 days	25 Apr '22	10 May '22	HK Working Day	632		0%	NA	NA
634	Final Connection of NS250 HDPE Pipe to Existing at Wan Po	14 days	17 Jun '22	4 Jul '22	HK Working Day	662		0%	NA	NA
635	DN1200 MS Pipe Static Pressure Test, Pipeline Cleaning, CCTV Inspection, Sterilization and Water Sampling	2048 days	7 Nov '17	16 Jun '23	Calendar Day			0%	NA	NA
636	Static Pressure Test	838 days	1 Nov '20	16 Feb '23	Calendar Day			0%	NA	NA
637	DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.CA4+24 to CH.CT.2+65	30 days	1 Nov '20	30 Nov '20	Calendar Day			0%	NA	NA
638	DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH. A12+50)	30 days	16 Sep '22	15 Oct '22	Calendar Day	71,593	646	0%	NA	NA
639	DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Wan Po Road (CH. A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A (CH. FB1+66)	30 days	22 Sep '22	21 Oct '22	Calendar Day	132,234	647	0%	NA	NA
640	DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at TKO Landfill Stage I Area A (CH. FB1+66) to DN900 Valve Chamber at TKO Landfill Stage I Area B (CH. FC 13+26)	30 days	9 Mar '22	7 Apr '22	Calendar Day	230,298	648	0%	NA	NA
641	DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at TKO Landfill Stage I Area B (CH. FC13+26) to DN900 Valve Chamber at CH. FD3+43	30 days	19 Nov '22	18 Dec '22	Calendar Day	289	642,649	0%	NA	NA
642	DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.FD 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH. HA6+45)	30 days	19 Dec '22	17 Jan '23	Calendar Day	341,347,428,452	650,643	0%	NA	NA
643	DN1200 MS Pipe - Static Pressure Test From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH. HE1+70)	30 days	18 Jan '23	16 Feb '23	Calendar Day	510,513,534,555	651	0%	NA	NA
644	Pipeline Cleaning and CCTV Inspection	2018 days	7 Nov '17	17 May '23	Calendar Day		653FF+30	0%	NA	NA
645	DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at CH.CA4+24 to CH.CT.2+65	90 days	7 Nov '17	4 Feb '18	Calendar Day			0%	NA	NA
646	DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH. A12+50)	90 days	16 Oct '22	13 Jan '23	Calendar Day	638		0%	NA	NA



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ID	Task Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish
647	DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at Wan Po Road (CH. A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A (CH. FB1+66)	90 days	22 Oct '22	19 Jan '23	Calendar Day	639		0%	NA	NA
648	DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at TKO Landfill Stage I Area A (CH. FB1+66) to DN900 Valve Chamber at TKO Landfill Stage I Area B (CH. FC 13+26)	90 days	8 Apr '22	6 Jul '22	Calendar Day	640		0%	NA	NA
649	DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at TKO Landfill Stage I Area B (CH. FC13+26) to DN900 Valve Chamber at CH.FD3+43	90 days	19 Dec '22	18 Mar '23	Calendar Day	641		0%	NA	NA
650	DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at CH.FD3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH. HA6+45)	90 days	18 Jan '23	17 Apr '23	Calendar Day	642		0%	NA	NA
651	DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH. HE1+70)	90 days	17 Feb '23	17 May '23	Calendar Day	643		0%	NA	NA
652	Sterilization and Water Sampling	150 days	18 Jan '23	16 Jun '23	Calendar Day			0%	NA	NA
653	DN1200 MS Pipe - Portion I & Portion H (Total Water = 9700 cu.m)	150 days	18 Jan '23	16 Jun '23	Calendar Day	644FF+30 days	661	0%	NA	NA
654	DN800 MS Pipe Static Pressure Test, Pipeline Cleaning, CCTV Inspection, Sterilization and Water Sampling	35 days	18 Mar '22	21 Apr '22	Calendar Day		572,573	0%	NA	NA
655	DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH. HE1+70) to CH. J0+57 and to DN800 EMF & BV Chamber (CH. HE1+90)	14 days	18 Mar '22	31 Mar '22	Calendar Day	567,568,570	656	0%	NA	NA
656	DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH. HE1+70) to CH. J0+57 and to DN800 EMF & BV Chamber (CH. HE1+90)	14 days	1 Apr '22	14 Apr '22	Calendar Day	655	657	0%	NA	NA
657	DN800 MS Pipe - Sterilization and Water Sampling From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH. HE1+70) to CH. J0+57 and to DN800 EMF & BV Chamber (CH.HE1+90)	7 days	15 Apr '22	21 Apr '22	Calendar Day	656		0%	NA	NA
658	NS250 HDPE Pipe Static Pressure, Pipeling Cleaning, CCTV Inspection, Sterilization and Water Sampling	30 days	11 May '22	9 Jun '22	Calendar Day			0%	NA	NA
659	NS250 HDPE Pipe - Static Pressure Test - Portion H (Area 137)	30 days	11 May '22	9 Jun '22	Calendar Day	593	662	0%	NA	NA
660	Handover Portion I and Portion H to WSD Region	379 days	10 Jun '22	23 Jun '23	Calendar Day			0%	NA	NA
661	DN1200 MS Pipe - Portion I & Portion H (Area 137)	7 days	17 Jun '23	23 Jun '23	Calendar Day	653		0%	NA	NA
662	NS250 HDPE Pipe - Portion H (Area 137)	7 days	10 Jun '22	16 Jun '22	Calendar Day	659	634	0%	NA	NA
663	Water Supply to Tseung Kwan O Desalination Plant at Fill Bank of Tseung Kwan O Area 137 (Portion J)	141 days	16 Nov '18	11 May '19	HK Working Day			100%	16 Nov '18	11 May '19
664	Issue of CE No. 02	0 days	16 Nov '18	16 Nov '18	HK Working Day		665	100%	16 Nov '18	16 Nov '18
665	Procurement of Major Material	48 days	17 Nov '18	3 Jan '19	Calendar Day	664	666	100%	17 Nov '18	3 Jan '19
666	Installation of NS250 HDPE Pipe from A to B in accordance with the Drawing No. 13/WSD/16/SK13 to SK15 and W20203/4A	89 days	4 Jan '19	25 Apr '19	HK Working Day	665		100%	4 Jan '19	25 Apr '19
667	Sterilization and Flushing NS250 HDPE Pipe (From T0+00 to T23+64)	4 days	24 Apr '19	28 Apr '19	HK Working Day		668	100%	24 Apr '19	28 Apr '19
668	Take Water Sampling	1 day	29 Apr '19	29 Apr '19	HK Working Day	667	669	100%	29 Apr '19	29 Apr '19
669	Backfill at T23+64 after completion of Water Sampling Test	1 day	11 May '19	11 May '19	HK Working Day	668	670FF	100%	11 May '19	11 May '19
670	Handover Portion J to WSD Region	0 days	11 May '19	11 May '19	HK Working Day	669FF		100%	11 May '19	11 May '19

Working Programme No. 11
Data Date : 15 Nov 2020

Task | Split | Milestone | Summary | Project Summary | Inactive Task | Inactive Milestone | Inactive Summary | Manual Task | Duration-only | Manual Summary Rollup | Manual Summary | Start-only | Finish-only | External Tasks | External Milestone | Deadline | Critical | Critical Split | Progress | Manual Progress