Contract No. EP/SP/66/ Integrated Waste Manag	/12 gement Facilities, Phase 1	Keppel Seghers – Zhen Hua Joint Venture
Appendix P	Impact Monitoring Schedul Month	e of Next Reporting

			Impact Monitoring Schedule for IWMF			
			Jan-21			
Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2 Impact
						Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1,
						CR2, M1 Tidal Period:
						Ebb Tide: 12:48 - 16:00
						Flood Tide: 06:00 - 12:48
						<u>Monitoring Time:</u> Mid-ebb: 11:30 - 17:00
						*Mid-flood: 08:00 - 11:30
3	4	5	6	7	8	9
	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1	Impact Daytime, Evening & Night time Noise monitoring for M1, M2 & M3	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1,	Impact Ecology monitoring for WBSE		Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1,
	Tidal Period:		CR2, M1			CR2, M1
	Ebb Tide: 14:33 - 18:07 Flood Tide: 07:18 - 14:33		Tidal Period:			Tidal Period:
	Monitoring Time:		Ebb Tide: 16:00 - 20:34 Flood Tide: 08:50 - 16:00			Ebb Tide: 07:00 - 11:00 Flood Tide: 11:00 - 18:19
	Mid-ebb: 14:35- 18:05		Monitoring Time:			Monitoring Time:
	Mid-flood: 09:10 - 12:40		&Mid-ebb: 15:30 - 19:00			*Mid-ebb: 08:00 - 11:30
	Daytime, Evening & Night time Noise monitoring for M1, M2 & M3		Mid-flood: 10:40 - 14:10			Mid-flood: 12:54 - 16:24
10	11	12	13	14	15	16
	Impact	Impact	Impact	Impact	Impact	
	Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 <u>Tidal Period:</u>	Daytime, Evening & Night time Noise monitoring for M1, M2 & M3	Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1	Ecology monitoring for WBSE	Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1	
	Ebb Tide: 09:29 - 12:58		Tidal Period:		Tidal Period:	
	Flood Tide: 12:58 - 19:34		Ebb Tide: 11:00 - 14:34		Ebb Tide: 12:24 - 16:02	
	<u>Monitoring Time;</u> Mid-ebb: 09:28 - 12:58		Flood Tide: 14:34 - 21:00 <u>Monitoring Time:</u>		Flood Tide: 05:24 - 12:24 <u>Monitoring Time:</u>	
	& Mid-flood: 14:31 - 18:01		Mid-ebb: 11:02 - 14:32		Mid-ebb: 12:28 - 15:58	
	Daytime, Evening & Night time Noise monitoring for M1, M2 & M3		&Mid-flood: 15:30 - 19:00		* Mid-flood: 08:00 - 11:30	
17	12	10	20	21	22	22
17	Impact	Impact	Impact	Impact	22 Impact	23
17	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1	Impact	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1,		Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1,	23
17	Impact	Impact	Impact	Impact	Impact	23
17	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 14:00 - 18:15 Flood Tide: 07:00 - 14:00	Impact	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 08:00 - 16:00	Impact	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 03:10 - 09:00	23
17	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 14:00 - 18:15 Flood Tide: 07:00 - 14:00 Monitoring Time:	Impact	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 08:00 - 16:00 Flood Tide: 16:00 - 20:27	Impact	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 03:10 - 09:00 Flood Tide: 09:00 - 17:35	23
17	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 14:00 - 18:15 Flood Tide: 07:00 - 14:00 Monitoring Time: Mid-ebb: 14:22 - 17:52	Impact	Impact Water Quality monitoring for 81, 82, 83, 84, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 08:00 - 16:00 Flood Tide: 16:00 - 20:27 Monitoring Time:	Impact	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 03:10 - 09:00	23
17	Impact Water Quality monitoring for B1, 82, 83, 84, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 14:00 - 18:15 Flood Tide: 07:00 - 14:00 Monitoring Time: Mid-ebb: 14:22 - 17:52 & Mid-flood: 08:45 - 12:15 Daytime, Evening & Night time Noise monitoring for M1, M2 & M3	Impact	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 08:00 - 16:00 Flood Tide: 16:00 - 20:27	Impact	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 03:10 - 09:00 Flood Tide: 09:00 - 17:35 Monitoring Time:	23
17	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 14:00 - 18:15 Flood Tide: 07:00 - 14:00 Monitoring Time: Mid-ebb: 14:22 - 17:52 & Mid-flood: 08:45 - 12:15 Daytime, Evening & Night time Noise monitoring for M1, M2 & M3 Ecology monitoring for Marine Mammals by Vessel-based Line-Transect	Impact	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 08:00 - 16:00 Flood Tide: 16:00 - 20:27 Monitoring Time: * Mid-ebb: 16:28 - 19:58	Impact	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 03:10 - 09:00 Flood Tide: 09:00 - 17:35 Monitoring Time: * Mid-ebb: 08:00 - 11:30	23
17	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 14:00 - 18:15 Flood Tide: 07:00 - 14:00 Monitoring Time: Mid-ebb: 14:22 - 17:52 & Mid-flood: 08:45 - 12:15 Daytime, Evening & Night time Noise monitoring for M1, M2 & M3 Ecology monitoring for Marine Mammals by Vessel-based Line-Transect Survey	Impact Daytime, Evening & Night time Noise monitoring for M1, M2 & M3	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 08:00 - 16:00 Flood Tide: 16:00 - 20:27 Monitoring Time: * Mid-ebb: 16:28 - 19:58 Mid-flood: 10:15 - 13:45	Impact Ecology monitoring for WBSE	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 03:10 - 09:00 Flood Tide: 09:00 - 17:35 Monitoring Time: * Mid-ebb: 08:00 - 11:30 Mid-flood: 13:02 - 16:32	
17	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 14:00 - 18:15 Flood Tide: 07:00 - 14:00 Monitoring Time: Mid-ebb: 14:22 - 17:52 & Mid-flood: 08:45 - 12:15 Daytime, Evening & Night time Noise monitoring for M1, M2 & M3 Ecology monitoring for Marine Mammals by Vessel-based Line-Transect Survey	Impact Daytime, Evening & Night time Noise monitoring for M1, M2 & M3	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 08:00 - 16:00 Flood Tide: 16:00 - 20:27 Monitoring Time: * Mid-ebb: 16:28 - 19:58 Mid-flood: 10:15 - 13:45	Impact	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 03:10 - 09:00 Flood Tide: 09:00 - 17:35 Monitoring Time: * Mid-ebb: 08:00 - 11:30	23
17 24	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 14:00 - 18:15 Flood Tide: 07:00 - 14:00 Monitoring Time: Mid-ebb: 14:22 - 17:52 & Mid-flood: 08:45 - 12:15 Daytime, Evening & Night time Noise monitoring for M1, M2 & M3 Ecology monitoring for Marine Mammals by Vessel-based Line-Transect Survey 25 Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1	Impact Daytime, Evening & Night time Noise monitoring for M1, M2 & M3 26 Impact	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 08:00 - 16:00 Flood Tide: 16:00 - 20:27 Monitoring Time: * Mid-ebb: 16:28 - 19:58 Mid-flood: 10:15 - 13:45 27 Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1,	Impact Ecology monitoring for WBSE	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 03:10 - 09:00 Flood Tide: 09:00 - 17:35 Monitoring Time: * Mid-ebb: 08:00 - 11:30 Mid-flood: 13:02 - 16:32 29 Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1,	
24	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 14:00 - 18:15 Flood Tide: 07:00 - 14:00 Monitoring Time: Mid-ebb: 14:22 - 17:52 & Mid-flood: 08:45 - 12:15 Daytime, Evening & Night time Noise monitoring for M1, M2 & M3 Ecology monitoring for Marine Mammals by Vessel-based Line-Transect Survey 25 Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period:	Impact Daytime, Evening & Night time Noise monitoring for M1, M2 & M3 26 Impact	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 08:00 - 16:00 Flood Tide: 16:00 - 20:27 Monitoring Time: * Mid-ebb: 16:28 - 19:58 Mid-flood: 10:15 - 13:45 27 Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1	Impact Ecology monitoring for WBSE 28 Impact	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 03:10 - 09:00 Flood Tide: 09:00 - 17:35 Monitoring Time: Mid-ebb: 08:00 - 11:30 Mid-flood: 13:02 - 16:32 29 Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1	
24	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 14:00 - 18:15 Flood Tide: 07:00 - 14:00 Monitoring Time: Mid-ebb: 14:22 - 17:52 & Mid-flood: 08:45 - 12:15 Daytime, Evening & Night time Noise monitoring for M1, M2 & M3 Ecology monitoring for Marine Mammals by Vessel-based Line-Transect Survey 25 Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1	Impact Daytime, Evening & Night time Noise monitoring for M1, M2 & M3 26 Impact	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 08:00 - 16:00 Flood Tide: 16:00 - 20:27 Monitoring Time: * Mid-ebb: 16:28 - 19:58 Mid-flood: 10:15 - 13:45 27 Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1,	Impact Ecology monitoring for WBSE 28 Impact	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 03:10 - 09:00 Flood Tide: 09:00 - 17:35 Monitoring Time: * Mid-ebb: 08:00 - 11:30 Mid-flood: 13:02 - 16:32 29 Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1,	
24	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 14:00 - 18:15 Flood Tide: 07:00 - 14:00 Monitoring Time: Mid-ebb: 14:22 - 17:52 & Mid-flood: 08:45 - 12:15 Daytime, Evening & Night time Noise monitoring for M1, M2 & M3 Ecology monitoring for Marine Mammals by Vessel-based Line-Transect Survey 25 Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period; Ebb Tide: 08:00 - 12:00 Flood Tide: 12:00 - 18:44 Monitoring Time:	Impact Daytime, Evening & Night time Noise monitoring for M1, M2 & M3 26 Impact	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 08:00 - 16:00 Flood Tide: 16:00 - 20:27 Monitoring Time: * Mid-ebb: 16:28 - 19:58 Mid-flood: 10:15 - 13:45 27 Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 10:00 - 13:00 Flood Tide: 13:00 - 20:00	Impact Ecology monitoring for WBSE 28 Impact	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 09:00 - 17:35 Monitoring Time: Mid-ebb: 08:00 - 11:30 Mid-flood: 13:02 - 16:32 29 Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 11:00 - 15:00 Flood Tide: 15:00 - 21:00	
24	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 14:00 - 18:15 Flood Tide: 07:00 - 14:00 Monitoring Time: Mid-ebb: 14:22 - 17:52 & Mid-flood: 08:45 - 12:15 Daytime, Evening & Night time Noise monitoring for M1, M2 & M3 Ecology monitoring for Marine Mammals by Vessel-based Line-Transect Survey 25 Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 08:00 - 12:00 Flood Tide: 12:00 - 18:44 Monitoring Time: Mid-ebb: 08:15 - 11:45	Impact Daytime, Evening & Night time Noise monitoring for M1, M2 & M3 26 Impact	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 08:00 - 16:00 Flood Tide: 16:00 - 20:27 Monitoring Time: * Mid-ebb: 16:28 - 19:58 Mid-flood: 10:15 - 13:45 27 Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 10:00 - 13:00 Flood Tide: 13:00 - 20:00 Monitoring Time:	Impact Ecology monitoring for WBSE 28 Impact	Impact	
24	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 14:00 - 18:15 Flood Tide: 07:00 - 14:00 Monitoring Time: Mid-ebb: 14:22 - 17:52 & Mid-flood: 08:45 - 12:15 Daytime, Evening & Night time Noise monitoring for M1, M2 & M3 Ecology monitoring for Marine Mammals by Vessel-based Line-Transect Survey 25 Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period; Ebb Tide: 08:00 - 12:00 Flood Tide: 12:00 - 18:44 Monitoring Time:	Impact Daytime, Evening & Night time Noise monitoring for M1, M2 & M3 26 Impact	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 08:00 - 16:00 Flood Tide: 16:00 - 20:27 Monitoring Time: * Mid-ebb: 16:28 - 19:58 Mid-flood: 10:15 - 13:45 27 Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 10:00 - 13:00 Flood Tide: 13:00 - 20:00	Impact Ecology monitoring for WBSE 28 Impact	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 09:00 - 17:35 Monitoring Time: Mid-ebb: 08:00 - 11:30 Mid-flood: 13:02 - 16:32 29 Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 11:00 - 15:00 Flood Tide: 15:00 - 21:00	
24	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 14:00 - 18:15 Flood Tide: 07:00 - 14:00 Monitoring Time: Mid-ebb: 14:22 - 17:52 & Mid-ebb: 14:22 - 17:52 Daytime, Evening & Night time Noise monitoring for M1, M2 & M3 Ecology monitoring for Marine Mammals by Vessel-based Line-Transect Survey 25 Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period; Ebb Tide: 08:00 - 12:00 Flood Tide: 12:00 - 18:44 Monitoring Time: Mid-ebb: 08:15 - 11:45 Mid-flood: 13:37 - 17:07 Daytime, Evening & Night time Noise monitoring for M1, M2 & M3 Ecology monitoring for Marine Mammals by Vessel-based Line-Transect	Impact Daytime, Evening & Night time Noise monitoring for M1, M2 & M3 26 Impact	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 08:00 - 16:00 Flood Tide: 16:00 - 20:27 Monitoring Time: * Mid-ebb: 16:28 - 19:58 Mid-flood: 10:15 - 13:45 27 Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 10:00 - 13:00 Flood Tide: 13:00 - 20:00 Monitoring Time: Mid-ebb: 09:45 - 13:15	Impact Ecology monitoring for WBSE 28 Impact	Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 03:10 - 09:00 Flood Tide: 09:00 - 17:35 Monitoring Time: * Mid-ebb: 08:00 - 11:30 Mid-flood: 13:02 - 16:32 29 Impact Water Quality monitoring for B1, B2, B3, B4, H1, C1A, C2A, F1A, CR1, CR2, M1 Tidal Period: Ebb Tide: 11:00 - 15:00 Flood Tide: 15:00 - 21:00 Monitoring Time: Mid-ebb: 11:15 - 14:45	
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Remarks:

1. Daytime Noise Monitoring (07:00-1900), Evening Time Noise Monitoring (1900-2300), Night Time Noise Monitoring (2300-0700)

2. Water Quality Monitoring for \$1,52 and \$3 will only conduct during DCM works, refer to Detailed DCM Plan

- Note:
 *- as per Marine Department Notice No 107 of 2018, all vessels employed for the works should stay in the works area outside the hours of works (0700 to 2300). Due to safty concern, Water Quality Monitoring would start at 0800.
 #- Prioritized routing: Mid-Ebb: C1—S3—CR2—CR1—H1—Remaining stations and Mid-Flood: C2—CR1—S3—CR2—H1—Remaining stations
 \$- Since predicted tide is shorter than 3.5 hours, method of 90% tidal period as monitoring time is approached.
 &- Due to safety concern for sampling event in night-time, method of 90% tidal period as monitoring time is approached and end at 1900.