

GENERA FIELD RECORD SHEET

Fumigator Mark Wesierski

Pentarch LOG YARD, EDROM ROAD EDEN

Pine logs with bark for export to India

VESSEL

MINIMUM TEMPERATURE

La Chamboardais

29/01/2022 19 DEGREES Min

Row I.D.	length	width	height	volume	JAS	Conc g/m3	bromide	Start	CERT NO.
470	55	3.7	4.5	915.75	501.678	56	51.3	29/01/2022 11:00	87650
469	55	3.7	4.2	854.7	458.325	56	47.9	29/01/2022 11:00	87650
321	70	3.7	5	1295	699.469	56	72.5	29/01/2022 11:00	87650
315	70	3.7	5	1295	735.151	56	72.5	29/01/2022 11:00	87650
318	65	3.7	5	1202.5	658.989	56	67.3	29/01/2022 11:00	87650
314	65	3.7	5	1202.5	648.218	56	67.3	29/01/2022 11:00	87650
475	60	3.7	4.5	999	515.847	56	55.9	29/01/2022 11:00	87650
468	60	3.7	4.5	999	567.474	56	55.9	29/01/2022 11:00	87650
761	25	6.1	4	610	331.01	56	34.2	29/01/2022 11:00	87650
754	30	5.5	3	495	263.57	56	27.7	29/01/2022 11:00	87650
865	60	3.7	4.5	999	543.259	56	55.9	29/01/2022 11:00	87650
866	60	3.7	4.5	999	510.7897	56	55.9	29/01/2022 11:00	87650
867	60	3.7	4.5	999	538.438	56	55.9	29/01/2022 11:00	87650
868	60	3.7	4.5	999	539.445	56	55.9	29/01/2022 11:00	87650
323	60	5.5	4.5	1485	849.127	56	83.2	29/01/2022 11:00	87650
870	50	5.5	4	1100	597.757	56	61.6	29/01/2022 11:00	87650

16449 8958.5467 921.17

Actual Mb used 921.2

MONITORING SHEET #1 - EXPOSURE PERIOD



Location	Pentarch Log Yard, Edrom	Job Description	Pine Logs with Bark
Start Time	11:00	MB Dosage Rate	56gm3
Start Date	22/01/2022	Wind Direction	NNE
Site Diagram	Pentach 1	Wind Speed	7kmph

	TIME	M1	M2	M3	M4	M5
START TIME (+mins)	11:00	0	0	0	0	0
15	11:15	0	0	0	0	0
30	11:30	0	0	0	0	0
45	11:45	0	0	0	0	0
60	12:00	0	0	0	0	0
75	12:15	0	0	0	0	0
90	12:30	0	0	0	0	0
105	12:45	0	0	0	0	0
120	13:00	0	0	0	0	0
180	13:30	0	0	0	0	0
240						
300						

Fumigator: Mark Wesieski

Signature:

Date:

22/01/2022

MONITORING SHEET #2 - VENTILATION



Location	Pentarch Log Yard, Edrom	Job Description	Pine Logs with Bark
Start Time	11:00	MB Dosage Rate	56gm3
Start Date	30/01/2022	Wind Direction	ENE
Site Diagram	Pentarch 1	Wind Speed	20 kmph

	TIME	M1	M2	M3	M4	M5
START TIME (+mins)	11:00	0	0	0	0	0
10	11:10	0	0	0	0	0
20	11:20	0	0	0	0	0
30	11:30	0	0	0	0	0
40	11:40	0	0	0	0	0
50	11:50	0	0	0	0	0
60	12:00	0	0	0	0	0
75	12:15	0	0	0	0	0
90	12:30	0	0	0	0	0
105	12:45	0	0	0	0	0
120	13:00	0	0	0	0	0

Discontinue monitoring once MB Concentration level is Zero

Mark Wesieski

Signature:

Date:

30/01/2022



METHYL BROMIDE LOG ROW FUMIGATION LOG

Date: 29/01/2022

Vessel: La Chambordia

Location: EDEN

Exporter: Pentarch

Rate gm3 : 56

Destination: India

Volume: As per Field record sheet

FUMIGATION			CONCENTRATION gm3												
			START			EQUILIBRIUM %	2 HOURS			16 HOURS			FINISH		
	Log Row	Time	Front	Middle	Back		Front	Middle	Back	Front	Middle	Back	Front	Middle	Back
1	470-469	09:45	59	60	60	2	35	35	34	22	23	24	18	18	18
2	321-315	09:55	65	68	65	5	40	45	38	27	26	29	22	20	22
3	318-314	10:00	63	64	64	2	43	42	38	25	25	28	19	20	21
4	475-468	10:45	63	69	68	10	39	42	45	29	23	26	20	21	21
5	761-754	11:00	69	60	60	15	42	37	39	24	28	23	21	21	22
6	865-866	09:00	65	64	68	6	43	41	41	31	23	30	19	20	19
7	867-868	09:20	67	61	66	10	44	43	37	27	27	29	21	19	20
8	323	09:10	66	60	62	10	44	40	37	31	30	31	21	20	19
9	870	09:25	61	60	63	5	40	37	37	26	30	25	21	22	19
10															
11															
12															
13															
14															

START DATE 29/01/2022

END DATE 30/01/2022

START TIME 11:00

END TIME 11:00

MIN TEMP °C 19

FUMIGATOR IN CHARGE Mark Wesierski

SIGNATURE

Fumigation start time is when equilibrium is achieved in the LAST log row

Equilibrium Equation:

Fumigation end time is when ventilation (i.e seal is broken) on FIRST log row

$$\frac{HIGHEST - LOWEST}{LOWEST} \times 100 = \%$$

FOR OPERATION CERTIFICATION PURPOSES



METHYL BROMIDE SHIP FUMIGATION LOG

Date: 19/02/2022 **Vessel:** La Chambordais
Location: Eden **Exporter:** Pentarch
Rate gm3 : 56 **Destination:** India

FUMIGATION			CONCENTRATION												
			START			EQUILIBRIUM %	2 HOUR			16 HOUR			FINISH		
	Hold Number	Reading Time	Port	Middle	STB		Port	Middle	STB	Port	Middle	STB	Port	Middle	STB
1	1	23:20	67	72	73	9	38	43	42	26	26	30	19	20	22
2	2	00:00	68	69	72	6	44	40	44	25	29	33	21	23	24
3	3	23:55	69	73	73	6	39	38	42	27	33	29	24	21	23
4	4	23:45	73	66	65	12	45	45	37	27	25	32	22	24	21
5	5	23:40	68	67	71	6	41	38	38	26	31	26	21	21	24
6															
7															
8															
9															
10															
11															
12															

START DATE 19/02/2022

END DATE 20/02/2022

START TIME 00:01

END TIME 00:01

MIN TEMP °C 16

FUMIGATOR David Cossons

SIGNATURE

David Cossons

Fumigation start time is when equilibrium has been achieved in the LAST ship hold

Fumigation end time is when ventilation (i.e seal is broken) on FIRST ship hold

Equilibrium Equation:

$$\frac{HIGHEST - LOWEST}{LOWEST} \times 100 = \%$$

FOR OPERATION CERTIFICATION PURPOSES

GENERA SHIP RECORD SHEET

VESSEL	FUMIGATOR	START DATE	TIME	FINISH DATE	TIME
La Chambodais	David Cossons	19/02/2022	00:00	20/02/2022	00:00
bromide conc.	Minimum Temp.	WIND greencape ws		WIND greencape ws	
0.056	14	speed	time	speed	time
		36km/h	00:00	28km/h	00:00
		N		N	

HATCH	VOLUME	BROMIDE	Air Quality Exposure Period ppm		Air Quality Venting Period ppm	
			Time	north	Time	north
1	8510	476.6	0hrs	0	0hrs	0
2	10780	603.7	1hrs	0	0.5hrs	0
3	10075	564.2	2hrs	0	1hrs	0
4	10780	603.7	4hrs	0	1.5hrs	0
5	9400	526.4	8hrs	0	2hrs	0
			12hrs	0	4hrs	0
					6hrs	0
	49545.00	2774.5			8hrs	0
					12hrs	0

Nil readings observed on berth during fumigation.

Fresh Northely wind adjacent to the berth during ventilation. Nil readings observed on berth during ventilation.

GENERA FIELD RECORD SHEET

Fumigator Tate Nolan

Pentarch LOG YARD, EDROM ROAD EDEN

Pine logs with bark for export to India

VESSEL

MINIMUM TEMPERATURE

Lardos

08/04/2022 16 DEGREES Min

Row I.D.	length	width	height	volume	JAS	Conc g/m3	bromide	Start	CERT NO.
335	60	3.7	5	1110	668.07	56	62.2	08/04/2022 16:00	87662
341	60	3.7	5	1110	642.198	56	62.2	08/04/2022 16:00	87662
601	60	3.7	5	1110	625.237	56	62.2	08/04/2022 16:00	87662
697	60	3.7	5	1110	643.551	56	62.2	08/04/2022 16:00	87662
886	60	3.7	5	1110	514.536	56	62.2	08/04/2022 16:00	87662
883	60	3.7	5	1110	508.672	56	62.2	08/04/2022 16:00	87662
881	55	3.7	4.5	915.75	491.696	56	51.3	08/04/2022 16:00	87662
882	60	3.7	4.5	999	555.162	56	55.9	08/04/2022 16:00	87662
345	60	3.7	5	1110	660.836	56	62.2	08/04/2022 16:00	87662
347	60	3.7	5	1110	629.18	56	62.2	08/04/2022 16:00	87662
480	55	3.7	5	1017.5	532.756	56	57.0	08/04/2022 16:00	87662
478	55	3.7	5	1017.5	544.81	56	57.0	08/04/2022 16:00	87662
481	55	3.7	4.5	915.75	538.173	56	51.3	08/04/2022 16:00	87662
482	55	3.7	4.5	915.75	512.388	56	51.3	08/04/2022 16:00	87662
343	65	3.7	5	1202.5	690.147	56	67.3	08/04/2022 16:00	87662
340	65	3.7	5	1202.5	672.356	56	67.3	08/04/2022 16:00	87662

17066 9429.768 955.71

Actual Mb used 955.7

MONITORING SHEET #1 - EXPOSURE PERIOD



Location	<u>Pentarch Log Yard, Edrom</u>	Job Description	<u>Pine Logs with Bark</u>
Start Time	<u>16:00</u>	MB Dosage Rate	<u>56gm3</u>
Start Date	<u>08/04/2022</u>	Wind Direction	<u>SE</u>
Site Diagram	<u>Pentach 1</u>	Wind Speed	<u>14kmph</u>

	TIME	M1	M2	M3	M4	M5
START TIME (+mins)	16:00	0	0	0	0	0
15	16:15	0	0	0	0	0
30	16:30	0	0	0	0	0
45	16:45	0	0	0	0	0
60	17:00	0	0	0	0	0
75	17:15	0	0	0	0	0
90	17:30	0	0	0	0	0
105						
120						
180						
240						
300						

Fumigator: Tate Nolan

Signature:

Date:

08/04/2022

MONITORING SHEET #2 - VENTILATION



Location	<u>Pentarch Log Yard, Edrom</u>	Job Description	<u>Pine Logs with Bark</u>
Start Time	<u>09:00</u>	MB Dosage Rate	<u>56gm3</u>
Start Date	<u>10/04/2022</u>	Wind Direction	<u>ENE</u>
Site Diagram	<u>Pentarch 1</u>	Wind Speed	<u>6 kmph</u>

	TIME	M1	M2	M3	M4	M5
START TIME (+mins)	08:00	0	0	0	0	0
10	08:10	0	0	0	0	0
20	08:20	0	0	0	0	0
30	08:30	0	0	0	0	0
40	08:40	0	0	0	0	0
50	08:50	0	0	0	0	0
60	09:00	0	0	0	0	0
75	08:15	0	0	0	0	0
90	08:30	0	0	0	0	0
105	08:45	0	0	0	0	0
120	09:00	0	0	0	0	0

Discontinue monitoring once MB Concentration level is Zero

Tate Nolan

Signature:

Date:

10/04/2022

METHYL BROMIDE LOG ROW FUMIGATION LOG

Date: 08/04/2022

Vessel: Lardos

Location: EDEN

Exporter: Pentarch

Rate gm3 : 56

Destination: India

Volume: As per Field record sheet

FUMIGATION			CONCENTRATION gm3												
			START			EQUILIBRIUM %	2 HOURS			16 HOURS			FINISH		
	Log Row	Time	Front	Middle	Back		Front	Middle	Back	Front	Middle	Back	Front	Middle	Back
1	335-341	12:15	65	67	68	5	44	45	41	31	29	25	22	19	21
2	601-697	13:30	68	66	66	3	42	42	40	29	26	31	20	21	22
3	886-883	12:40	62	62	62	0	44	42	45	28	31	23	19	19	22
4	881-882	12:55	63	60	60	5	41	42	42	24	29	25	22	20	20
5	345-347	14:50	68	69	65	6	42	38	44	25	25	24	22	22	19
6	480-478	15:20	62	65	69	11	38	45	44	30	31	28	19	21	19
7	481-482	15:40	69	65	66	6	37	45	37	23	27	28	21	22	19
8	343-340	16:00	60	68	63	13	42	44	41	25	25	28	22	21	19
9															
10															
11															
12															
13															
14															

START DATE 08/04/2022

END DATE 09/04/2022

START TIME 16:00

END TIME 16:00

MIN TEMP °C 16

FUMIGATOR IN CHARGE Tate Nolan

SIGNATURE



Fumigation start time is when equilibrium is achieved in the LAST log row

Fumigation end time is when ventilation (i.e seal is broken) on FIRST log row

FOR OPERATION CERTIFICATION PURPOSES

Equilibrium Equation:

$$\frac{HIGHEST - LOWEST}{LOWEST} \times 100 = \%$$

GENERA SHIP RECORD SHEET

VESSEL	FUMIGATOR	START DATE	TIME	FINISH DATE	TIME
Lardos	David Cossons	29/04/2022	15:00	30/04/2022	15:00

bromide conc.	Minimum Temp.	WIND greencape ws			WIND greencape ws		
0.056	16	speed	direction	time	speed	direction	time
		25km/h	NE	15:00	12km/h	NE	15:00

HATCH	VOLUME	BROMIDE	Air Quality Exposure Period ppm			Air Quality Venting Period ppm		
			Time	north	south	Time	north	south
1	5314	297.6	0hrs	0	0	0hrs	0	0
2	8148.22	456.3	1hrs	0	0	0.5hrs	0	0
3	8199.58	459.2	2hrs	0	0	1hrs	0	0
4	8223.83	460.5	4hrs	0	0	1.5hrs	0	0
5	7435	416.4	8hrs	0	0	2hrs	2	0
			12hrs	0	0	4hrs	1	0
	37320.63	2090.0				6hrs	0	0
						8hrs	0	0
						12hrs	0	0

North wind during application. Nil Readings. Small readings on berth after a wind change 2 hours into ventilation.



METHYL BROMIDE SHIP FUMIGATION LOG

Date: 29/04/2022 **Vessel:** Lardos
Location: Eden **Exporter:** Pentarch
Rate gm3 : 56 **Destination:** India

FUMIGATION			CONCENTRATION												
			START			EQUILIBRIUM %	2 HOUR			16 HOUR			FINISH		
	Hold Number	Reading Time	Port	Middle	STB		Port	Middle	STB	Port	Middle	STB	Port	Middle	STB
1	1	14:20	83	77	80	8	55	55	52	30	32	36	24	24	24
2	2	14:40	76	83	73	14	45	46	49	29	34	34	24	24	27
3	3	14:45	77	79	83	8	50	41	46	32	32	33	22	26	25
4	4	14:55	72	78	76	8	60	57	58	35	32	36	27	26	25
5	5	15:00	75	79	78	5	49	49	49	31	33	34	21	23	24
6															
7															
8															
9															
10															
11															
12															

START DATE 29/04/2022

END DATE 30/04/2022

START TIME 15:00

END TIME 15:00

MIN TEMP °C 16

FUMIGATOR Daviv Cossons

SIGNATURE

Fumigation start time is when equilibrium has been achieved in the LAST ship hold

Fumigation end time is when ventilation (i.e seal is broken) on FIRST ship hold

Equilibrium Equation:

$$\frac{HIGHEST - LOWEST}{LOWEST} \times 100 = \%$$

FOR OPERATION CERTIFICATION PURPOSES

GENERA FIELD RECORD SHEET

Fumigator Tate Nolan

Pentarch LOG YARD, EDROM ROAD EDEN

Pine logs with bark for export to India

VESSEL

MINIMUM TEMPERATURE

Lardos

23&24/06/2022 16 DEGREES Min

Row I.D.	length	width	height	volume	JAS	Conc g/m3	bromide	Start	CERT NO.
351	40	3.7	4	592	336.299	64	37.9	23/06/2022 15:00	87683
348	60	3.7	5.5	1221	675.417	64	78.1	23/06/2022 15:00	87683
892	55	3.7	5	1017.5	557.144	64	65.1	23/06/2022 15:00	87683
885	55	3.7	5	1017.5	549.54	64	65.1	23/06/2022 15:00	87683
894	55	3.7	5	1017.5	545.11	64	65.1	23/06/2022 15:00	87683
895	55	3.7	5	1017.5	512.86	64	65.1	23/06/2022 15:00	87683
884	55	3.7	4.5	915.75	492.326	64	58.6	23/06/2022 15:00	87683
887	55	3.7	4.5	915.75	503.294	64	58.6	23/06/2022 15:00	87683
889	50	3.7	4.5	832.5	479.44	64	53.3	23/06/2022 15:00	87683
890	50	3.7	4.5	832.5	467.677	64	53.3	23/06/2022 15:00	87683
491	50	3.7	5	925	507.52	64	59.2	24/06/2022 15:00	87684
484	50	3.7	5	925	509.407	64	59.2	24/06/2022 15:00	87684
492	50	3.7	4.5	832.5	497.183	64	53.3	24/06/2022 15:00	87684
494	50	3.7	4.5	832.5	500.6	64	53.3	24/06/2022 15:00	87684
344	65	3.7	5	1202.5	634.663	64	77.0	24/06/2022 15:00	87684
349	65	3.7	5	1202.5	645.319	64	77.0	24/06/2022 15:00	87684
607	65	3.7	5	1202.5	669.849	64	77.0	24/06/2022 15:00	87684
613	65	3.7	5	1202.5	644.808	64	77.0	24/06/2022 15:00	87684
490	50	3.7	5	925	488.676	64	59.2	24/06/2022 15:00	87684
489	50	3.7	5	925	484.953	64	59.2	24/06/2022 15:00	87684

19555 10702.085 1251.5

Actual Mb used 1251.5

MONITORING SHEET #1 - EXPOSURE PERIOD



Location	<u>Pentarch Log Yard, Edrom</u>	Job Description	<u>Pine Logs with Bark</u>
Start Time	<u>15:00</u>	MB Dosage Rate	<u>64gm3</u>
Start Date	<u>23/06/2022</u>	Wind Direction	<u>N</u>
Site Diagram	<u>Pentach 2</u>	Wind Speed	<u>9kmph</u>

	TIME	M1	M2	M3	M4	M5
START TIME (+mins)	15:00	0	0	0	0	0
15	15:15	0	0	0	0	0
30	15:30	0	0	0	0	0
45	15:45	0	0	0	0	0
60	16:00	0	0	0	0	0
75	16:15	0	0	0	0	0
90	16:30	0	0	0	0	0
105						
120						
180						
240						
300						

Fumigator: Tate Nolan

Signature:

Date:

23/06/2022

MONITORING SHEET #1 - EXPOSURE PERIOD



Location	<u>Pentarch Log Yard, Edrom</u>	Job Description	<u>Pine Logs with Bark</u>
Start Time	<u>15:00</u>	MB Dosage Rate	<u>64gm3</u>
Start Date	<u>24/06/2022</u>	Wind Direction	<u>Calm</u>
Site Diagram	<u>Pentach 1</u>	Wind Speed	<u>0kmph</u>

	TIME	M1	M2	M3	M4	M5
START TIME (+mins)	15:00	0	0	0	0	0
15	15:15	0	0	0	0	0
30	15:30	0	0	0	0	0
45	15:45	0	0	0	0	0
60	16:00	0	0	0	0	0
75	16:15	0	0	0	0	0
90	16:30	0	0	0	0	0
105						
120						
180						
240						
300						

Fumigator: Tate Nolan

Signature:

Date:

24/06/2022



METHYL BROMIDE LOG ROW FUMIGATION LOG

Date: 23/06/2022

Vessel: African Ganet

Location: EDEN

Exporter: Pentarch

Rate gm3 : 64

Destination: India

Volume: As per Field record sheet

FUMIGATION			CONCENTRATION gm3												
			START			EQUILIBRIUM %	2 HOURS			16 HOURS			FINISH		
	Log Row	Time	Front	Middle	Back		Front	Middle	Back	Front	Middle	Back	Front	Middle	Back
1	351-348	12:45	77	79	75	5	51	45	49	36	34	34	26	23	24
2	892-885	14:20	74	77	75	4	43	53	42	35	33	28	25	23	25
3	894-895	13:15	78	69	78	13	52	53	50	36	35	28	23	24	24
4	884-887	13:45	71	79	72	11	48	58	53	36	31	29	26	26	24
5	889-890	15:00	73	77	74	5	48	53	45	30	30	29	25	27	25
6															
7															
8															
9															
10															
11															
12															
13															
14															

START DATE 23/06/2022

END DATE 24/06/2022

START TIME 15:00

END TIME 15:00

MIN TEMP °C 11

FUMIGATOR IN CHARGE Tate Nolan

SIGNATURE

Fumigation start time is when equilibrium is achieved in the LAST log row

Fumigation end time is when ventilation (i.e seal is broken) on FIRST log row

FOR OPERATION CERTIFICATION PURPOSES

Equilibrium Equation:

$$\frac{HIGHEST - LOWEST}{LOWEST} \times 100 = \%$$



METHYL BROMIDE LOG ROW FUMIGATION LOG

Date: 24/06/2022

Vessel: African Ganet

Location: EDEN

Exporter: Pentarch

Rate gm3 : 64

Destination: India

Volume: As per Field record sheet

FUMIGATION			CONCENTRATION gm3												
			START			EQUILIBRIUM %	2 HOURS			16 HOURS			FINISH		
	Log Row	Time	Front	Middle	Back		Front	Middle	Back	Front	Middle	Back	Front	Middle	Back
1	491-484	13:25	79	77	79	3	58	46	51	36	36	33	22	23	22
2	492-494	13:50	76	72	69	10	50	48	57	36	29	31	24	26	25
3	344-349	14:20	73	79	74	8	53	42	54	35	28	34	22	23	26
4	607-613	14:55	76	75	71	7	58	52	56	34	34	36	25	27	22
5	490-489	13:00	72	71	72	1	49	58	56	32	28	35	25	25	25
6															
7															
8															
9															
10															
11															
12															
13															
14															

START DATE 24/06/2022

END DATE 25/06/2022

START TIME 15:00

END TIME 15:00

MIN TEMP °C 11

FUMIGATOR IN CHARGE Tate Nolan

SIGNATURE

Fumigation start time is when equilibrium is achieved in the LAST log row

Fumigation end time is when ventilation (i.e seal is broken) on FIRST log row

FOR OPERATION CERTIFICATION PURPOSES

Equilibrium Equation:

$$\frac{HIGHEST - LOWEST}{LOWEST} \times 100 = \%$$

MONITORING SHEET #2 - VENTILATION



Location	<u>Pentarch Log Yard, Edrom</u>	Job Description	<u>Pine Logs with Bark</u>
Start Time	<u>15:00</u>	MB Dosage Rate	<u>64gm3</u>
Start Date	<u>25/06/2022</u>	Wind Direction	<u>North</u>
Site Diagram	<u>Pentarch 1</u>	Wind Speed	<u>6 kmph</u>

	TIME	M1	M2	M3	M4	M5
START TIME (+mins)	15:00	0	0	0	0	0
10	15:10	0	0	0	0	0
20	15:20	0	0	0	0	0
30	15:30	0	0	0	0.6	0
40	15:40	0	0	0	1	0
50	15:50	0	0	0	0.3	0
60	16:00	0	0	0	0	0
75	16:15	0	0	0	0	0
90	16:30	0	0	0	0	0
105	16:45	0	0	0	0	0
120	17:00	0	0	0	0	0

Discontinue monitoring once MB Concentration level is Zero

Tate Nolan

Signature:

Date:

25/06/2022

MONITORING SHEET #2 - VENTILATION



Location	<u>Pentarch Log Yard, Edrom</u>	Job Description	<u>Pine Logs with Bark</u>
Start Time	<u>13:00</u>	MB Dosage Rate	<u>64gm3</u>
Start Date	<u>25/06/2022</u>	Wind Direction	<u>CALM</u>
Site Diagram	<u>Pentarch 2</u>	Wind Speed	<u>0 kmph</u>

	TIME	M1	M2	M3	M4	M5
START TIME (+mins)	13:00	0	0	0	0	0
10	13:10	0	0	0	0	2
20	13:20	0	0	0	0	1.2
30	13:30	0	0	0	0	0
40	13:40	0	0	0	0	0
50	13:50	0	0	0	0	0
60	14:00	0	0	0	0	0
75	14:15	0	0	0	0	0
90	14:30	0	0	0	0	0
105	14:45	0	0	0	0	0
120	15:00	0	0	0	0	0

Discontinue monitoring once MB Concentration level is Zero

Tate Nolan

Signature:

Date:

25/06/2022

GENERA SHIP RECORD SHEET

VESSEL	FUMIGATOR	START DATE	TIME	FINISH DATE	TIME
African Gannet	David Cossons	21/07/2022	19:00	22/07/2022	19:00

bromide conc.	Minimum Temp.	WIND greencape ws		WIND greencape ws		
0.064	11	speed	direction	time	speed	direction
		19km/h	E	19:00	4km/h	NE

HATCH	VOLUME	BROMIDE	Air Quality Exposure Period ppm			Air Quality Venting Period ppm		
			Time	north	south	Time	north	south
1	6930	443.5	0hrs	0	0	0hrs	0	
2	10309	659.8	1hrs	0	0	0.5hrs	0	3.6
3	10316	660.2	2hrs	0	0	1hrs	0	3.2
4	10316	660.2	4hrs	0	0	1.5hrs	0	3
5	9660	618.2	8hrs	0	0	2hrs	0	0.5
			12hrs	0	0	4hrs	0	0
	47531.00	3042.0				6hrs	0	0
						8hrs	0	0
						12hrs	0	0

East wind during application. Nil Readings. Readings on Southern end of berth during ventilation. Light Breeze running down the ship.

Fumigator Tate Nolan

Pine logs with bark for export to India

MINIMUM TEMPERATURE

11/11/2022 16 DEGREES Min

Row I.D.	length	width	height	volume	JAS	Conc g/m3	bromide	Start		CERT NO.
403	60	3.7	4.8	1065.6	618.098	56	59.7	11/11/2022	14:00	87699
405	55	3.7	4.5	915.75	510.092	56	51.3	11/11/2022	14:00	87699
402	55	3.7	4.5	915.75	550.009	56	51.3	11/11/2022	14:00	87699
401	55	3.7	4.5	915.75	570.86	56	51.3	11/11/2022	14:00	87699
404	55	3.7	4.5	915.75	559.489	56	51.3	11/11/2022	14:00	87699
406	50	3.7	4.5	832.5	497.162	56	46.6	11/11/2022	14:00	87699
400	55	3.7	4.5	915.75	523.411	56	51.3	11/11/2022	14:00	87699
498	55	3.7	4.5	915.75	573.49	56	51.3	11/11/2022	14:00	87699
245	60	3.7	5	1110	758.858	56	62.2	11/11/2022	14:00	87699
246	60	3.7	5	1110	749.991	56	62.2	11/11/2022	14:00	87699
624	60	3.7	4.5	999	610.399	56	55.9	11/11/2022	14:00	87699
623	60	3.7	4.5	999	641.832	56	55.9	11/11/2022	14:00	87699
632	60	3.7	4.5	999	605.044	56	55.9	11/11/2022	14:00	87699
631	60	3.7	4.5	999	623.825	56	55.9	11/11/2022	14:00	87699
627	60	3.7	4.8	1065.6	631.694	56	59.7	11/11/2022	14:00	87699
625	60	3.7	4.8	1065.6	633.876	56	59.7	11/11/2022	14:00	87699
407	55	3.7	4.5	915.75	513.765	56	51.3	11/11/2022	14:00	87699
408	55	3.7	4.5	915.75	539.73	56	51.3	11/11/2022	14:00	87699
617	60	3.7	5	1110	699.746	56	62.2	11/11/2022	14:00	87699
618	60	3.7	4.8	1065.6	694.939	56	59.7	11/11/2022	14:00	87699
				<u>19747</u>	<u>12106.31</u>	<u>1105.8</u>				
Actual Mb used		1105.8								



METHYL BROMIDE LOG ROW FUMIGATION LOG

Date: 11/11/2022

Vessel: Shikoku Island

Location: EDEN

Exporter: Pentarch

Rate gm3 : 56

Destination: India

Volume: As per Field record sheet

FUMIGATION			CONCENTRATION gm3												
			START			EQUILIBRIUM %	2 HOURS			16 HOURS			FINISH		
	Log Row	Time	Front	Middle	Back		Front	Middle	Back	Front	Middle	Back	Front	Middle	Back
1	403-405	13:10	67	69	66	5	42	45	45	27	27	27	20	21	22
2	402-401	13:15	67	65	64	5	40	45	43	23	27	23	20	20	22
3	404-406	13:40	62	64	64	3	45	44	44	29	26	24	20	21	19
4	400-498	13:45	64	65	69	8	37	43	38	25	29	24	19	20	21
5	245-246	13:50	60	65	60	8	42	39	43	28	23	31	20	19	20
6	624-623	14:00	67	69	61	13	42	41	37	24	25	29	22	20	19
7	632-631	13:20	61	69	66	13	41	44	39	29	28	30	19	22	21
8	627-625	13:30	62	63	65	5	40	39	41	30	23	31	21	21	20
9	407-408	12:45	65	63	64	3	38	44	39	31	23	30	22	21	21
10	617-618	12:55	69	66	69	5	41	38	42	25	30	30	19	20	20
11															
12															
13															
14															

START DATE 11/11/2022

END DATE 12/11/2022

START TIME 14:00

END TIME 14:00

MIN TEMP °C 16

FUMIGATOR IN CHARGE Tate Nolan

SIGNATURE

Fumigation start time is when equilibrium is achieved in the LAST log row

Equilibrium Equation:

Fumigation end time is when ventilation (i.e seal is broken) on FIRST log row

$$\frac{HIGHEST - LOWEST}{LOWEST} \times 100 = \%$$

FOR OPERATION CERTIFICATION PURPOSES

MONITORING SHEET #1 - EXPOSURE PERIOD



Location	<u>Pentarch Log Yard, Edrom</u>	Job Description	<u>Pine Logs with Bark</u>
Start Time	<u>11:00</u>	MB Dosage Rate	<u>56gm3</u>
Start Date	<u>11/11/2022</u>	Wind Direction	<u>N</u>
Site Diagram	<u>Pentach 1</u>	Wind Speed	<u>26kmph</u>

	TIME	M1	M2	M3	M4	M5
START TIME (+mins)	11:00	0	0	0	0	0
15	11:15	0	0	0	0	0
30	11:30	0	0	0	0	0
45	11:45	0	0	0	0	0
60	12:00	0	0	0	0	0
75	12:15	0	0	0	0	0
90	12:30	0	0	0	0	0
105	12:45	0	0	0	0.4	0
120	13:00	0	0	0	0	0
135	13:15	0	0	0	0.2	0
150	13:30	0	0	0	0	0
165	13:45	0	0	0	0	0
180	14:00	0	0	0	0	0
210	14:30	0	0	0	0	0

Fumigator: Tate Nolan

Signature:

Date:

11/11/2022

MONITORING SHEET #2 - VENTILATION



Location	<u>Pentarch Log Yard, Edrom</u>	Job Description	<u>Pine Logs with Bark</u>
Start Time	<u>15:00</u>	MB Dosage Rate	<u>56gm3</u>
Start Date	<u>12/11/2022</u>	Wind Direction	<u>SSE</u>
Site Diagram	<u>Pentarch 1</u>	Wind Speed	<u>22 kmph</u>

	TIME	M1	M2	M3	M4	M5
START TIME (+mins)	15:00	0	0	0	0	0
10	15:10	0	0	0	0	0
20	15:20	0	0	0	0	0
30	15:30	0	0	0	0	0
40	15:40	0	0	0	0	0
50	15:50	0	0	0	0	0
60	16:00	0	0	0	0	0
75	16:15	0	0.2	0	0	0
90	16:30	0	1.8	0	0	0
105	16:45	0	0.6	0	0	0
120	17:00	0	0	0	0	0

Discontinue monitoring once MB Concentration level is Zero

Tate Nolan

Signature:

Date:

12/11/2022

GENERA SHIP RECORD SHEET

VESSEL	FUMIGATOR	START DATE	TIME	FINISH DATE	TIME
Shikoku Island	Glen Richardson	25/11/2022	9:15	26/11/2022	9:15

bromide conc.	Minimum Temp.	WIND greencape ws			WIND greencape ws		
0.064	11	speed	direction	time	speed	direction	time
		35km/h	SW	9:15	9km/h	NW	9:15

HATCH	VOLUME	BROMIDE	Air Quality Exposure Period ppm			Air Quality Venting Period ppm		
			Time	north	south	Time	north	south
1	6278.25	401.8	0hrs	0	0	0hrs	0	0
2	9538.81	610.5	1hrs	0	0	0.5hrs	0.2	3.6
3	9575.27	612.8	2hrs	0	0	1hrs	0	0.6
4	9502.36	608.2	4hrs	0	0	1.5hrs	0	1.2
5	8310.71	531.9	8hrs	0	0	2hrs	0	0
			12hrs	0	0	4hrs	0	0
	43205.40	2765.1				6hrs	0	1
						8hrs	0	0.6
						12hrs	0	0

South West wind during application. Nil Readings. Readings on Southern end of berth during ventilation. Freshening Breeze during the day running down the ship.