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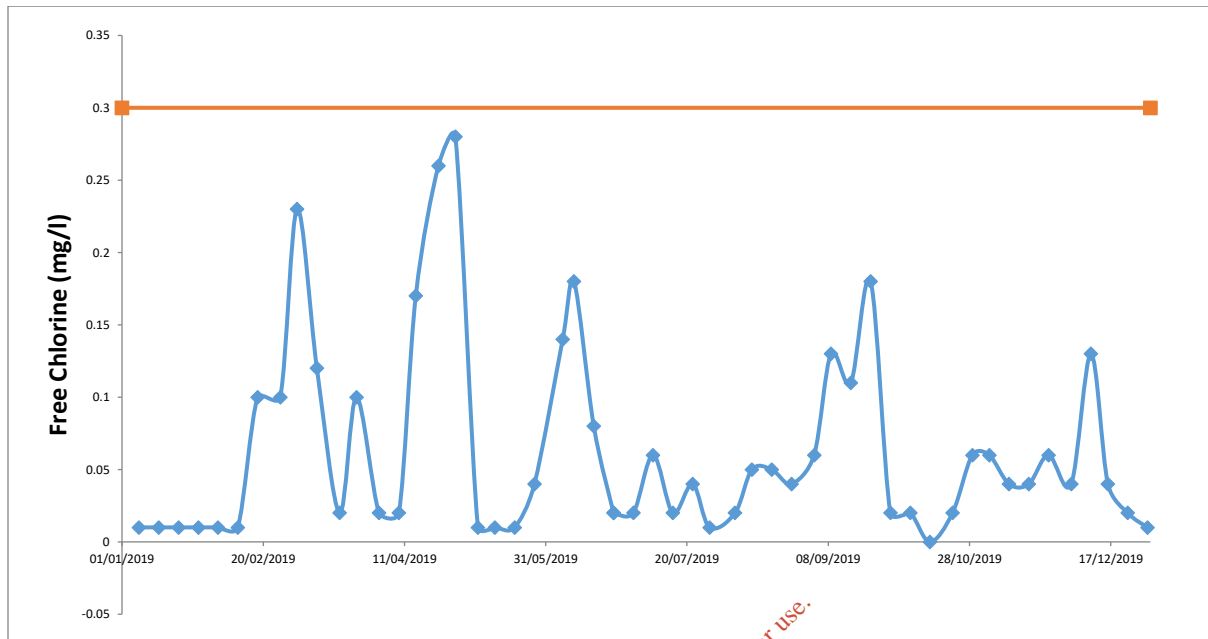
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Industrial Emissions Licence Review Environmental Compliance Report

Reference Number:	Emissions Compliance
Version:	1
Date of Issue:	01-09-2020

1. Summary Of SW2 Compliance Monitoring 2019

SW2 has been issued with a chlorine limit of 0.3 mg/l. The following graph summarises the emissions results from weekly analysis on the discharge water.



Conclusion: The emission point is compliant on an on-going basis.

2. Summary Of SW13 Compliance Monitoring 2019

BOD	COD	TPH	SS	NH ₄	PO ₄
mg/l	mg/l	ug/l	mg/l	mg/l	mg/l
20	-	20,000	30	5	5
3	9	<10	<2	1.3	0.99
<3	16	<10	3	<0.08	0.44
<2	<4	<10	<2	0.32	0.86
<2	14	<10	<2	<0.08	0.78
<2	9	<10	2	<0.08	1
<2	<4	<10	6	<0.08	0.27
2	<4	14	4	<0.08	0.7
<4	<4	17	<2	<0.08	0.51
5	5	<10	2	0.32	0.62
3	6	<10	2	<0.08	0.9
6	16	21	19	0.21	1
<2	5	<10	<2	0.31	0.99

Conclusion: The emission point is compliant on an on-going basis.

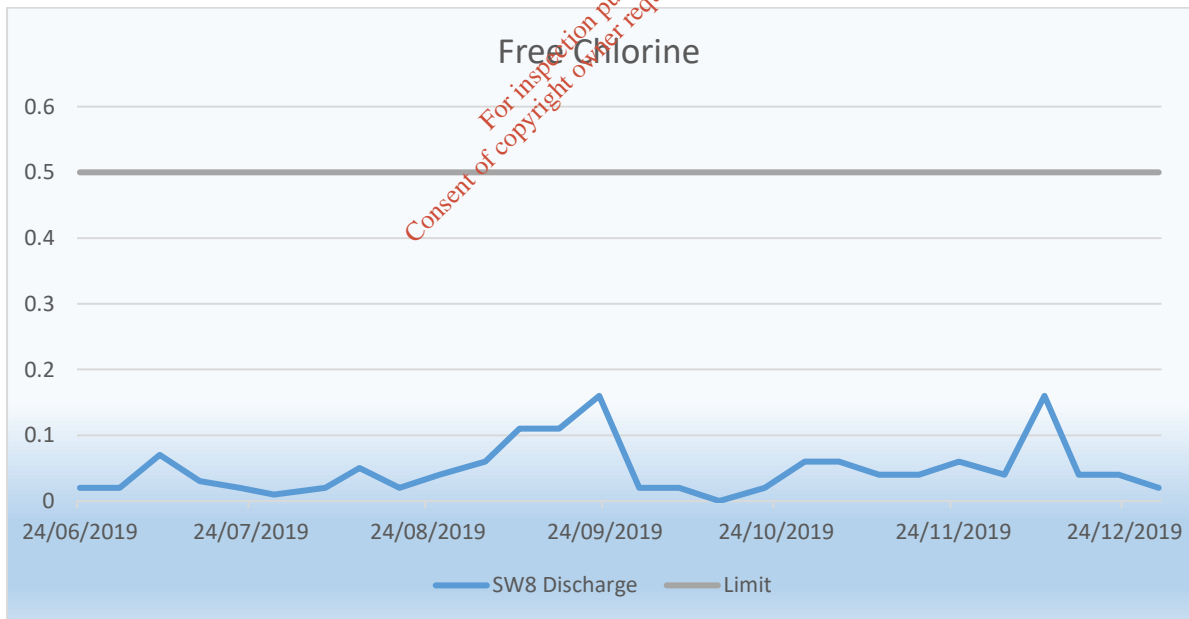
3. Summary of Storm water analysis in 2019

	SW1		SW4		SW12		SW3B	
	SS	TPH	SS	TPH	SS	TPH	SS	TPH
Units	mg/l	ug/l	mg/l	ug/l	mg/l	ug/l	mg/l	ug/l
Limit value	N/a	N/a	N/a	N/a	N/a	N/a	N/a	N/a
Jan	2	19	6	<10	76	<10	29	<10
Feb	<2	<10	<2	<10	20	<10	<2	<10
Mar	<2	28	<2	21	4	20	14	47
Apr	7	<10	<2	54	64	<10	6	17
May	3	<10	6	<10	35	<10	13	47
Jun	23	<10	184	<10	13	<10	65	150
Jul	19	<10	4	150	72	<10	2	<10
Aug	8	17	<2	120	7	18	20	35
Sep	<2	<10	2	41	8	<10	<2	<10
Oct	<2	17	14	34	69	<10	<2	41
Nov	<2	<10	<2	<10	15	32	3	34
Dec	2	63	NS	NS	71	35	13	<10

Note: NS – No sample obtained – low levels of rainfall

Conclusion: Storm waters do not have designated licence limits.

4. Summary of SW8 analysis in 2019



Note: Sampling commenced in June 2019

Conclusion: The emission point is has proven it would be compliant on an on-going basis.

5. Emissions to Atmosphere

Emissions to atmosphere were compliant throughout 2019 with zero incidents or licence breaches. The systems is fitted with a CEMS unit which continuously monitors emissions. This systems is compliant with EN 14181 as demonstrated by independent contractors on an annual basis.

6. Noise

An annual noise survey is carried out at 2 noise sensitive locations as agreed by the Agency. Both points are within limits as applied in the licence.

Noise Monitoring Location: NSL 1(Noise Sensitive Location) 24-09-2019					
Period:	Time	Measured Noise Levels (dB re. 2 x 10 ⁻⁵ Pa)			Comments
		L _{Aeq}	L _{AFMAX}	L _{A90}	
Daytime:	16:21	48	71	40	The predominant noise source at this location came from intermittent traffic passing on the road nearby. Distant traffic noise could also be heard. There was very faint operational noise coming from SSE Great Island. Other sources of noise included birds chirping, dogs barking, a light breeze causing vegetation to rustle and a power tool being operated some distance away.
	16:51	52	80	40	
	17:21	54	81	39	
Arithmetic Average (dB):		52	77	42	
Daytime Criterion, dB L _{Ar,T} :		55	-	-	
Night Time:	01:21	34	57	29	The only continuous noise sources audible during the night noise survey included a light breeze that caused nearby vegetation to rustle as well as a faint humming emanating from SSE Great Island. No vehicles passed during the survey.
	01:51	32	51	29	
Arithmetic Average (dB):		33	54	28	
Night time Criterion, dB L _{Ar,T} :		45	-	-	

Noise Monitoring Location: NSL 2 (Noise Sensitive Location) 24-09-2019					
Period:	Time	Measured Noise Levels (dB re. 2 x 10 ⁻⁵ Pa)			Comments
		L _{Aeq}	L _{AFMAX}	L _{A90}	
Daytime:	10:50	44	72	37	The SSE facility at Great Island emitted very faint operational noise during the daytime survey. Birds were also heard chirping and there was a light breeze blowing throughout the survey. Other sources of noise heard included passing traffic, dogs barking and various residential activities such as people chatting and walking nearby.
	11:20	44	68	36	
	11:50	40	69	36	
Arithmetic Average (dB):		43	70	42	
Daytime Criterion, dB L _{Ar,T} :		55	-	-	
Night Time:	23:17	40	66	37	
	23:47	38	57	37	
Arithmetic Average (dB):		39	66	36	
Night time Criterion, dB L _{Ar,T} :		45	-	-	

Conclusion: Both NSLs have been proven to be compliant on an on-going basis.

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