



SOUTH HOOK
LNG TERMINAL COMPANY LTD

Mr Gareth Lewis
Compliance and Community Liaison Officer
SW Wales IR Team
Natural Resources Wales (NRW)
Maes Newydd
Llandarcy
Neath Port Talbot
SA10 6JQ

Our Ref: SHLNG-TS-ENV-C-502

Your Ref: EPR/XP3538LD

Date: 7 July 2016

Dear Mr Lewis,

Operator: South Hook LNG Terminal Company LTD.
EPR Environmental Permit Number EPR/ XP3538LD
Condition 4.2.3 – Report(s) of the Permit Monitoring and Assessments

Please find enclosed the report(s) of the permit monitoring and assessments undertaken for the Q1 and Q2 2016 period from 1 January 2016 to 30 June 2016.

Please do not hesitate to contact me should you have any queries.

Yours sincerely

Dr. Shane Evans
Senior Environmental Engineer.

Attachments:

- Form Number: Water1a / 14th October 2015

Permit Number: EPR/XP3538LD Operator: South Hook LNG Terminal Company LTD.

Facility: South Hook LNG Terminal **Form Number: Water1a / 14th October 2015**

Reporting of emissions to water (other than to sewer) and land for the period from 01/01/2016 to 30/06/2016 for Table S3.2a

Emission Point	Substance / Parameter	Emission Limit Value	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
W1a	pH	6-9	Daily minimum - maximum	7.1 7.9	BS ISO 10523	17 Feb, 2, 5, 21 Mar, 2, 26 Apr 2016 18 June 2016	4.11%
W1a	Turbidity	-	Daily maximum	12	BS EN ISO 7027	4 Jan, 4 Feb, 5 Mar 2016	44.51%
W1a	Oil and grease	None visible	Daily spot	None visible	Visual check	na	na
W1a	TOC	-	Weekly spot	24.7	BS EN 1484	18-Apr-16	3.70%
W1a	List 2 metals (copper, zinc and iron only)	-	Monthly maximum		APHA 3120B		
	Copper	-		6 µg/l		11-Feb-16	3.25%
	Zinc	-		8 µg/l		11-Feb-16	8.18%
	Iron	-		82 µg/l		03-Mar-16	6.84%
W2	Flow	3500 m ³ per day	Continuous	980.48	Flow meter	26/04/2016 100% data capture	0.56%
W2	Flow	164 m ³ per hr	Continuous	109.57	Flow meter	10/5/2016 100% data capture	0.56%
W2	pH	6-9	Daily minimum - maximum	6.50 8.35	BS ISO 10523	10 Mar 2016 26 Mar 2016 100% data capture	0.13 pH units
W2	Nitrates as N	50 mg/l	Daily maximum	15	APHA 4500-NO3-B-2011	12 & 14 Feb 2016	3.17%
W2	Nitrates as N	100 kg N/day	Daily maximum	13.08	APHA 4500-NO3-B-2011	12-Feb-16	3.17%
W2	Nitrates as N	50 kg N/day annual mean	Annual average	6.48	APHA 4500-NO3-B-2011	na	3.17%
W2	Oil and grease	None visible	Daily spot	None Visible	Visual check	na	na
W2	Total Residual Oxidant (As Total Free Chlorine) Limit = 0.1	0.1 mg/l	Monthly spot	<0.02 mg/l	Hach DPD Chlorine test kit for Total Free Chlorine	na	21.95%
W2	Biological Oxygen Demand (BOD)	-	Monthly spot	5 mg/l	HMSO BOD5 II 1988	09-Jun-16	48.09%
W2	Temperature	30 °C	Daily maximum	20.98	Standard thermocouple	12/06/2016 100% data capture	0.20%

[1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.

[2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with Natural Resources Wales is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.

[3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.

[4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed B. Evans Date 7 July 2016
(Authorised to sign as representative of Operator)

na = not applicable

Ref 07/07/16