

Site Visit Report

The site visit process is a sample on a particular day of an installation's compliance with some of its licence conditions. Where non-compliance against a particular condition has not been reported, this should not be construed to mean that there is full compliance with that condition of the licence.

Instructions and actions arising from the visit shall be addressed, or where applicable noted, by the licensee in order to ensure compliance, to improve the environmental performance of the installation and to provide clarification on certain issues.

The licensee shall take the actions specified to close out the non-compliances and observations raised in this Site Visit Report.

Licensee	
Name of Installation	Shannonside Building Supplies Limited
Licensee	Shannonside Building Supplies Limited
Licence Register No.	P0319-01
CRO Number	160820
Site Address	Fort Road, Kilrush, Clare
Site Visit Reference No.	SV02120

Report Detail	
Issue Date	19/01/2016
Prepared By	Niamh O'Carroll

Site Visit Detail					
Date Of Inspection	02/12/2015	Announced	No		
Time In	00:00	Time Out	00:00		
Agency Personnel On Site	David Galvin				
Licensee Personnel and Role	As per monitoring report				
Photo Taken	No	Samples Taken	Yes	Video Taken	No

> Scope

Surface Water Emissions Monitoring Visit.

> Media

Monitoring of emissions to surface water as per attached report.

> Site Areas Inspected

Emission locations as specified in attached report.

> Documents Inspected

None.



Environmental Protection Agency
 Regional Inspectorate
 John Moore Road, Castlebar



Test Report

Report of: Licensed Facility Monitoring
 Report to: Office of Environmental Enforcement, EPA.
 Report date: 08/01/16

Source of discharge: **Shannonside Building Supplies Limited**
Fort Road, Kilrush, Co. Clare,
 Reg No: P0319-01

Class of activity: 8.3, The treatment or protection of wood involving the use of preservatives with a capacity exceeding 10 tonnes per day.

Duplicate sample: No
 Composite:
 Grab:

Date collected: 02/12/2015 Date received: 03/12/2015

Comments: **No sample available. No evidence of spills/incidents at sampling point.**

- | | |
|--|---|
| 1) All Metals Analysed in the EPA, Dublin Laboratory | 9) nt "No time" - Time not recorded |
| 2) Cyanide, Bromide Analysed by Alcontrol Laboratories | 10) nr "not reported" |
| 3) Mineral Oils, FOG's, Formaldehyde, Phenols/Anionic Surfactants Analysed by Alcontrol Laboratories | 11) no "none observed" |
| 4) DRO/ PRO/SVOC Analysed by Alcontrol Laboratories | 12) tntc "Too numerous to count" |
| 5) VOCs Analysed by EPA, Kilkenny | 13) F "Field measured parameters" |
| 6) Solvents Analysed by EPA, Dublin | 14) Total Kjeldahl Nitrogen = Total Nitrogen - Total Oxidised Nitrogen |
| 7) nm "Not measured" | 15) Test reports relate only to the samples tested and as described on report form. |
| 8) nd "None detected" | 16) The scope and accuracy of the analysis will be sent with this report |
| | 17) (**) Indicates results produced from non-accredited analytical methods |

Laboratory Ref:			1535637
Type of sample:			Licence Monitoring
Sampling point:			SW1 - no sample
Sampled by:			David Galvin
Time Sampled:			10.50
Start/End - Dates of Analysis:			/
Status of results:			Final
Parameter	Units	Limits	

Signed: PP *Garon O'Donnell* Date: 08/Jan/2016
 Alan Stephens,
 Regional Chemist, EPA Castlebar

Test Report

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Report to: Office of Environmental Enforcement, EPA.
Report date: 08/01/16

Source of discharge: **Shannonside Building Supplies Limited**
Fort Road, Kilrush, Co. Clare,
Reg No: P0319-01

Class of activity: 8.3, The treatment or protection of wood involving the use of preservatives with a capacity exceeding 10 tonnes per day.

Duplicate sample: No

Composite:

Grab: Yes

Date collected: 02/12/2015

Date received: 03/12/2015

Comments: **Grab SW2 at perimeter wall chamber. Recent heavy rain. No evidence of spills/incidents at sampling point.**

- | | |
|--|---|
| 1) All Metals Analysed in the EPA, Dublin Laboratory | 9) nt "No time" - Time not recorded |
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| 3) Mineral Oils, FOG's, Formaldehyde, Phenols/Anionic | 11) no "none observed" |
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| 7) nm "Not measured" | 16) The scope and accuracy of the analysis will be sent with this report |
| 8) nd "None detected" | 17) (**) Indicates results produced from non-accredited analytical methods |

Laboratory Ref:			1535638
Type of sample:			Licence Monitoring
Sampling point:			SW2
Sampled by:			David Galvin
Time Sampled:			11.00
Start/End - Dates of Analysis:			02-12-15/08-12-15
Status of results:			Final
Parameter	Units	Limits	
F ** Temperature	°C		10.3
pH	pH Units		7.3
Conductivity @25°C	µS/cm		351
BOD	mg/l O2		6.2
Chemical Oxygen Demand	mg/l O2		34
Ammonia	mg/l N		0.080
Nitrite (as N)	mg/l N		0.013
Suspended Solids	mg/l		219
** Visual Inspection			nm

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Signed: PP Alan S. Donnell

Date: 08/Jan/2016

Alan Stephens,
Regional Chemist, EPA Castlebar

SCOPE AND ACCURACY OF ANALYSIS

SCOPE AND ACCURACY OF ANALYSIS

SUBSTANCES TESTED

766 WATERS
.02 Irrigation & Stock
.03 Industrial & Steam Raising Purposes
.04 Sewage
.05 Trade Wastes

.06 Saline Waters
.07 Bore Waters
.99 Other Waters
Surface waters
Landfill leachates, groundwaters, surface waters

LABORATORY

Environmental Protection Agency
John Moore Road
Castlebar
County Mayo

Tests for which the Laboratory is Accredited:

The Laboratory is accredited by the Irish National Accreditation Board for the tests listed below. The table also lists the units of measurement, the lowest reported value (LRV), the uncertainty of the analysis, the reference of the test methods used, the maximum storage period for which samples may be stored before analysis and the method of preservation of samples prior to analysis.

Parameter	Units	Lowest Reported Value (LRV)	Uncertainty (95%)	Reference Test Method	Maximum Storage Period (before analysis)	Sample Preservation
Biochemical Oxygen Demand (BOD)	mg/l O ₂	1.0	± 18.7 %	APHA Section 5210 B	35 hours	Refrigeration
Colour	Hazen	5	± 7.1 %	APHA Section 2120	35 hours	Refrigeration
Conductivity	µS/cm	15	± 1.6 %	APHA Section 2510	35 hours	Refrigeration
pH	pH unit	0.1	± 0.1 pH	APHA Section 4500 H ⁺	35 hours	Refrigeration
Turbidity	NTU	0.5	± 8.5 %	APHA Section 2130 B	35 hours	Refrigeration
Suspended Solids	mg/l	8	± 10.8 %	APHA Section 2540 D	7 days	Refrigeration
Total Solids	mg/l	30	± 10.6 %	APHA Section 2540 B	7 days	Refrigeration
Total Dissolved Solids	mg/l	60	± 12.5 %	APHA Section 2540 C	7 days	Refrigeration
Chemical Oxygen Demand (COD) *	mg/l O ₂	25	± 10.7 %	APHA Section 5220 D	35 hours	Refrigeration
Total Hardness	mg/l CaCO ₃	30	± 6.1 %	APHA Section 2340 C	35 hours	Refrigeration
Alkalinity	mg/l CaCO ₃	8	± 5.3 %	APHA Section 2320 B/ Blue Bk HMSO 0117516015	35 hours	Refrigeration
Ammonia *	mg/l N	0.03	± 9.1 %	Blue Bk HMSO 0117516139	35 hours	Refrigeration
Chloride	mg/l Cl	2	± 7.1 %	APHA Section 4500-Cl E	35 hours	Refrigeration
Total Oxidised Nitrogen (TON) *	mg/l N	0.4	± 12.6 %	APHA Section 4500-NO ₃ H	35 hours	Refrigeration
o-Phosphate	mg/l P	0.012	± 9.7 %	APHA Section 4500-P E	35 hours	Refrigeration
Nitrite	mg/l N	0.005	± 12.3 %	APHA Section 4500-NO ₂ B	35 hours	Refrigeration
Silica	mg/l Si	0.1	± 6.6 %	APHA Section 4500-SiO ₂ D	28 days	Refrigeration
Fluoride	mg/l F	0.03	± 8.9 %	APHA Section 4110	28 days	None
Nitrate *	mg/l N	0.05	± 5.2 %	APHA Section 4110	35 hours	Refrigeration
Sulphate	mg/l SO ₄	0.5	± 4.1 %	APHA Section 4110	28 days	Refrigeration
Total Phosphorus	mg/l P	0.01	± 9.3 %	APHA Section 4500-P B & E	28 days	Freezing

Tests for which the Laboratory is not Accredited:

Parameter	Units	Lowest Reported Value (LRV)	Uncertainty (95%)	Reference Test Method	Maximum Storage Period (before analysis)	Sample Preservation
Temperature (Field)	°C	0.1		APHA Section 2550	Immediately	None
Dissolved Oxygen (Field)	% Sat	1.0		APHA Section 4500-O G	Immediately	None
Salinity	‰ Sal	1.0		APHA Section 2520 B	Immediately	None
Total Nitrogen	mg/l N	1.0		Automated Digestion / Chemiluminescence	28 days	H ₂ SO ₄ to pH <2 & Refrigeration
Cyanide (total)	mg/l	0.05		Offline digestion / FIA Analysis	14 days	NaOH to pH >12 & Refrigeration
Hexavalent Chromium	µg/l	5.0	12.6	In-house method	35 hours	Refrigeration
Fats, Oils & Greases	mg/l	5.0		APHA Section 5220 D	28 days	H ₂ SO ₄ to pH <2 & Refrigeration
Chlorophyll	mg/m ³	2.0		Methods for Physical & Chemical Analysis of Freshwaters 1978	35 hours	Refrigeration
Calcium Hardness	mg/l CaCO ₃	10		APHA Section 3500-Ca B	35 hours	Refrigeration
Total & Free Residual Chlorine	mg/l Cl ₂	0.03		APHA Section 4500-Cl G	Immediately	None
Odour	None	None		APHA Section 2150	35 hours	Refrigeration
Coliforms (Total & Faecal)	No / 100mls	1		APHA Section 9223	35 hours	Refrigeration
Faecal Streps	No / 100 mls	1		Bacteriological Examination of water supplies HMSO 1977	35 hours	Refrigeration
All Metals	mg/l or µg/l	various		APHA Section 3125 (ICP-MS)	6 months	HNO ₃ to pH <2

* The Laboratory is not accredited for measuring these parameters in saline samples.

The Laboratory is not accredited for sampling. The results of analysis reflect the sample(s) as submitted to the Laboratory

APHA Reference: Standard Methods for the Examination of Water and Wastewater, American Public Health Association (APHA) 22nd Edition, 2012

Blue Bk Reference: Methods for the Examination of Waters and Associated Materials 1976 – 1992

Test Reports relate only to the samples tested and as described on the report form.

Test Reports shall not be reproduced except in full, without the written consent of the EPA.

The Uncertainty values listed above are for samples in the normal analytical range and not requiring dilution before analysis

$$\text{Uncertainty} = 2 \sqrt{(\text{PRECISION})^2 + (\text{BIAS})^2}$$

This is a report on monitoring of emissions to surface water at this site. Please find the detailed technical report attached.

FOLLOW-UP ACTIONS

You are required to complete the instructions and actions, as outlined in this report, within the specified timeframe. Where required, you shall respond to actions specified in Compliance Investigations within the required timeframe. The licensee shall maintain documentary evidence, for review by the EPA, that the prescribed corrective actions were completed within the required timeframe.

You are not required to respond directly to items contained in this EPA site visit report; where an issue requires a direct response, the EPA will generate a Compliance Investigation through the EDEN system. You will receive notification when a Compliance Investigation instruction or action is generated.

Please note that this Site Visit Report will be made available for public viewing via the EPA's Licence Enforcement Access Portal within one day of the issue date and will be published on the Licence Details Page of the EPA's website, www.epa.ie, that relates to your licence 60 calendar days after the issue date.

You may if you choose submit, within 45 calendar days of the issue date of this Site Visit Report, a Licensee Public Response that will be published alongside the Site Visit Report. This Response, should you wish to avail of it, provides you with an opportunity to inform the public about how you are implementing the actions set out in the report, activities underway, timescales and target completion dates. Please be aware that the content of your Licensee Public Response must be factual and should not breach the EPAs stated online publication standards.

If you wish to submit a Licensee Public Response to an EPA Site Visit Report, you should do this by clicking on the 'Make a Response' link on the Site Visits page in EDEN. A .pdf document containing your response can be attached and submitted from here.

Please note that you are required to comply with the conditions of your licence at all times, and where noncompliance occurs you must restore compliance within the shortest possible time. These actions will be verified during subsequent EPA visits.

Please quote the above Inspection Reference Number in any future correspondence in relation to this Report.