

Burbidge & Son Ltd, Awson Street, Coventry

Permit No: PPC/045

Woodcoating

Solvent Management Plan

2019 usage

2019 Summary

Burbidge & Son Ltd, Awson Street, Coventry
Permit No: PPC/045
Coatings on Wood,

VOC by supplier/ tonnes	Sherwin Williams	28.83
	Intercoat	12.28
	Renner	5.23
Total VOC Input (I₁)/ tonnes		46.35

Total VOC Output in tin residues (O₆)/tonnes	0.30
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Total VOC Output to Reclaim (O₈)/tonnes	15.07
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Nett Consumption VOC (C₁)/ tonnes	30.98
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Solids by supplier/ tonnes	Sherwin Williams	18.244
	Intercoat	0.00
	Renner	9.61
Total solids/ tonnes		27.86

Ratio VOC : solids	1.11 : 1
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1. Objective

To establish a Solvent Management Plan following the Secretary of State's Guidance for Wood Coating PG6/33 (11) revised June 2014. This document particularly refers to the requirements of paragraph 4.12.

2. Definitions and Interpretations

The Guidance Note refers to specific Inputs and Outputs of organic solvent. The interpretation of the definitions in relation to Burbidge & Son Ltd is as follows;

Definition Ref	Interpretation
I ₁	The input quantity of VOC will be the sum of all coatings and thinners used in the application process and solvent used for cleaning purposes
I ₂	Organic solvents recovered and reused as solvent input into the process.
O ₁	The emission of VOC from the exhaust stacks in the spray booths, drying ovens and paint kitchens. This is calculated as the difference between the input VOC and the other output VOC.
O ₂	Organic solvent lost in water. Burbidge & Son Ltd do not use a process where solvents are washed in water and therefore this output requirement is not applicable
O ₃	The potential retention of solvent in the coating is a significant problem to the industry. This can lead to coating instability that normally becomes visible as cracks in the lacquer film and also leads to the panels sticking when stacked together and to the imprinting of packaging onto the surface. As these issues are not apparent at Burbidge & Son Ltd then we believe that no solvent is retained in the final product and therefore this output requirement is not applicable.
O ₄	All mixing of the coating components, transfer of coatings and cleaning of application equipment is carried out in extracted areas. This output requirement is therefore not applicable.
O ₅	None of the coatings used at Burbidge & Son Ltd generate emissions from chemical or physical reactions and therefore this output is not applicable.
O ₆	Organic solvents contained in collected waste arise from the residue of coating materials left in the drums. The drums are partially vented then sealed prior to collection. There are no processes at Burbidge & Son that involve the wiping of excess solvent. There is a very low usage of rags for housekeeping purposes. A proportion of this includes contact with a small quantity of solvent but this is carried out in a spraybooth environment and it is believed that the solvent vapour is removed by the airflow into the spraybooth.

O ₇	All materials mixed are used on site which are sold as commercially valuable product and therefore this output requirement is not applicable.
O ₈	Materials are sent for recovery and resale but are not reused in the process.
O ₉	Organic solvents released in other ways. To the best of our knowledge all solvent releases are accounted for in the above definitions and therefore this output is not applicable.

3. Methodology

Inputs

3.1 Input I₁

The input data for materials used in the process is calculated from information supplied by the materials manufacturers.

3.2 Input I₂

Organic solvents recovered and reused as solvent input into the process, I₂, are calculated from the capacity of the recycle still and the number of times this is used.

Outputs

The known outputs cannot realistically be calculated with this level of accuracy and traceability. In order to estimate the relevant outputs the following methodologies have been used.

3.3 Output O₆ - Organic solvents contained in collected waste arise from the residue of coating materials left in the drums.

The volume of material in a drum varies with the type of material. For a typical full drum the depth of material would be 500mm. The residue therefore is equivalent to 1% of the drum height and therefore volume of coating in the drum. The calculated average coating VOC content can be used to determine the VOC content of the residue then extrapolated to give a total for O₆. The average coating VOC content of the residue is 65.61%. Therefore the residual VOC equates to 65.61% of the 1% of residue i.e. 0.6561%. The output O₆ is therefore 0.6561% of the materials given in I₁.

For 2019 = 46,347 * 1% * 0.6561 = 304 kg VOC

3.4 Output O₈ - Materials are sent for recovery and resale but are not reused in the process.

The data for solvent materials sent for recovery is calculated from information supplied by the recycling contractor.

4. Determination of Annual Solvent Consumption

The VOC content and solids content are available from data supplied by the coating

manufacturer. The VOC or solids content of the total coating used can be determined by multiplying the volume by VOC or solids content as appropriate.

The annual actual consumption of organic solvents (C) is

$$C = I_1 - O_8$$

5. Determination of Target Emission

The Target Emission for a wood coating installation in the 15 tonne or more solvent consumption band is

$$\text{Total Mass of Solids} \times 1.0 \text{ (see Table 6 PG6/33(11))}$$

Compliance with the Reduction Scheme is achieved if the annual actual solvent emission determined by the Solvent Management Plan is less than or equal to the Target Emission.

6. Determination of Annual Actual Solvent Emission

The annual actual solvent emission (para 4.7 PG6/33(11)) is

$$I_1 - O_8 - O_7 - O_6$$

7. Solvent Management Plan

Using the definitions in paragraph 4.12 the input of VOC is

$$I_1$$

The outputs are

$$O_1 + O_6 + O_8 \text{ (other outputs equal zero)}$$

where

I_1 = the quantity of organic solvents used in preparations and as thinners is taken from the annual VOC return

O_1 = the quantity of organic solvent in exhaust stacks from the spray booths, drying ovens and paint kitchens and is the difference between the input VOC and the other outputs

O_6 = organic solvents contained in collected empty drums and is calculated in section 3.3

O_8 = organic solvents sent for recovery and re-sale but not re-used on site

Figures from solvent suppliers

1. Renner
2. Sherwin & Williams
3. Intercoat

Renner Ltd

CODE	TOTAL PURCHASES 2019	UM	DESCRIPTION	DENSITY	VOC g/LT	SOLIDS g/LT	VOC TOTAL KG	SOLIDS TOTAL KG
AY---M460	3450	KG	Waterbased cleaner	0.984	192	0	662.4	0
CDA 733	6550	KG	Soft grey WB UV Topcoat	1.122	33	451	192.6	2632
CDA 751	2300	KG	Alabaster WB UV Topcoat	1.122	33	450	67.6	922.4
CDA 752	4250	KG	Putty WB UV Topcoat	1.122	33	451	125	1708
DA 374	2150	KG	Seal grey WB UV Topcoat	1.122	33	450	63.2	862.2
DS 370	1050	KG	Grey primer PU	1.174	174	516	155.6	461.4
FC---M003	300	LT	PU Hardener	0.933	709	224	212.7	67.2
DF---M008	500	LT	Thinner for PU	0.836	836	0	418	0
YC---M402	485	KG	Hardener for WB	1.09	218	771	97	343
CDS 1230	1450	KG	Seal grey PU	1.143	547	429	695	544.2
CDS 1120	1425	KG	Soft grey PU	1.311	357	678	388	736.9
CDS 1121	475	KG	Alabaster PU	1.311	357	678	129.3	245.6
CDS 1122	1200	KG	Putty PU	1.311	357	678	326.7	620.5
FC---M021	2300	LT		0.94	739	204	1699.7	469.2
Total	27885						5232.8	9612

Sherwin & Williams	Product No	Trade Name	Water Amt (wt %)	VOC Amt (wt %)	VOC Amt (g/L)	Solids Content (g/L)	Density (Kg/L)	Purchased Amt (L)	Purchased Amt (kg)	VOC Amt (kg)	Solids Amt (kg)
AF7210/00-25	AF7210/00	HYDRO WATERBORNE SELF-SEALER FOR INTERIORS 10 GLOSS	63.83342	3.2028	33.4	341.8	1.043	275	286.825	9.185	93.995
AT16DL10-10885760-5LT	AT16DL10-10885760	AT16 WB CONVERTER FOR INTERIORS, DARK BLUE	53.02678	3.4085	36.7	466.8	1.0768	15	16.152	0.5505	7.002
BUTACE025	R6K18	N-BUTYL ACETATE 25 LITRES	0	100	875.93	0	0.8759	700	613.13	613.151	0
DM394-0010-20L	DM394-0010	BERNYL DELUXE 10	0.165	53.4704	530.39	459.9	0.9919	40	39.676	21.2156	18.396
DT1150/00-25	DT1150/00	DT1150 STANDARD PU THINNER CLEAR 25 LITRES	0	100	850.42	0	0.8504	6400	5442.56	5442.688	0
DT1150/00-5	DT1150/00	THINNER FOR PU, GENERAL PURPOSE	0	100	850.42	0	0.8504	100	85.04	85.042	0
DT1150LT20-10901760-5LT	DT1150LT20-10901760	10901 ADHESION PROMOTER 5L	0	96.6985	838.46	28.6	0.867	45	39.015	37.7307	1.287
DX1131/00-25	DX1131/00	THINNER FAST	0	100	789.75	0	0.7897	5900	4659.23	4659.525	0
SU0340/13-20	SU0340/13	WHITE PRE CAT PRIMER	0	46.587	580.92	666	1.2469	1700	2119.73	987.564	1132.2
SZ99DA10-05233760-0.5LT	SZ99DA10-05233760	SZ99 PIGMENTED NITROCELLULOSE TOPCOATS, DARK GRAY	0	64.7782	655.07	356.1	1.0112	15	15.168	9.82605	5.3415
SZ99DA10-06789760-0.5LT	SZ99DA10-06789760	SZ99 PIGMENTED NITROCELLULOSE TOPCOATS, DARK GRAY	0	61.2496	650.7	411.6	1.0623	60	63.738	39.042	24.696
SZ99DA10-10065760-0.5LT	SZ99DA10-10065760	SZ99 PIGMENTED NITROCELLULOSE TOPCOATS, DARK GRAY	0	72.5767	698.94	264	0.963	10	9.63	6.9894	2.64
SZ99DL10-06792760-0.5LT	SZ99DL10-06792760	SZ99 PIGMENTED NITROCELLULOSE TOPCOATS, DARK BLUE	0	61.7488	653.25	404.6	1.0579	20	21.158	13.065	8.092

SZ99DL10-07286760-0.5LT	SZ99DL10-07286760	SZ99 PIGMENTED NITROCELLULOSE TOPCOATS, DARK BLUE	0	53.7782	611.95	525.9	1.1379	5	5.6895	3.05975	2.6295
SZ99DL10-10583760-0.5LT	SZ99DL10-10583760	SZ99 PIGMENTED NITROCELLULOSE TOPCOATS, DARK BLUE	0	64.6761	646.69	353.2	0.9998	15	14.997	9.70035	5.298
SZ99LA10-05232760-0.5LT	SZ99LA10-05232760	SZ99 PIGMENTED NITROCELLULOSE TOPCOATS, LIGHT GRAY	0	49.9382	590.22	591.6	1.1819	95	112.2805	56.0709	56.202
SZ99LA10-05845760-0.5KG	SZ99LA10-05845760	SZ99 PIGMENTED NITROCELLULOSE TOPCOATS, LIGHT GRAY	0	50.9621	594.99	572.5	1.1675	8.75	10.215625	5.206163	5.009375
SZ99LA10-05849760-0.5LT	SZ99LA10-05849760	SZ99 PIGMENTED NITROCELLULOSE TOPCOATS, LIGHT GRAY	0	51.0203	595.6	571.7	1.1673	5	5.8365	2.978	2.8585
SZ99LA10-05850760-0.5LT	SZ99LA10-05850760	SZ99 PIGMENTED NITROCELLULOSE TOPCOATS, LIGHT GRAY	0	48.5316	584.47	619.8	1.2043	25	30.1075	14.61175	15.495
SZ99LA10-05853760-0.5LT	SZ99LA10-05853760	SZ99 PIGMENTED NITROCELLULOSE TOPCOATS, LIGHT GRAY	0	50.4602	590.61	579.8	1.1704	20	23.408	11.8122	11.596
SZ99LA10-06575760-0.5LT	SZ99LA10-06575760	SZ99 PIGMENTED NITROCELLULOSE TOPCOATS, LIGHT GRAY	0	49.0914	587.02	608.7	1.1957	15	17.9355	8.8053	9.1305
SZ99LA10-06790760-0.5LT	SZ99LA10-06790760	SZ99 PIGMENTED NITROCELLULOSE TOPCOATS, LIGHT GRAY	0	50.611	591.99	577.6	1.1696	10	11.696	5.9199	5.776
SZ99LA10-10025760-0.5LT	SZ99LA10-10025760	SZ99 PIGMENTED NITROCELLULOSE TOPCOATS, LIGHT GRAY	0	49.1946	585.27	604.4	1.1897	5	5.9485	2.92635	3.022
SZ99LG10-05851760-0.5LT	SZ99LG10-05851760	SZ99 PIGMENTED NITROCELLULOSE TOPCOATS, LIGHT GREEN	0	50.9788	595.11	572.2	1.1673	5	5.8365	2.97555	2.861
SZ99LG10-06794760-0.5LT	SZ99LG10-06794760	SZ99 PIGMENTED NITROCELLULOSE TOPCOATS, LIGHT GREEN	0	49.3556	586.17	601.4	1.1876	5	5.938	2.93085	3.007
SZ99LH10-02975760-0.5LT	SZ99LH10-02975760	SZ99 PIGMENTED NITROCELLULOSE TOPCOATS, LIGHT BEIGE, BUFF, IVORY	0	51.1604	596.52	569.4	1.1659	15	17.4885	8.9478	8.541

SZ99LH10-03618760-0.5LT	SZ99LH10-03618760	SZ99 PIGMENTED NITROCELLULOSE TOPCOATS, LIGHT BEIGE, BUFF, IVORY	0	51.224	597	568.4	1.1654	20	23.308	11.94	11.368
SZ99LL10-02607760-0.5LT	SZ99LL10-02607760	SZ99 PIGMENTED NITROCELLULOSE TOPCOATS, LIGHT BLUE	0	48.3802	581.63	620.5	1.2022	15	18.033	8.72445	9.3075
SZ99LL10-11004760-0.5LT	SZ99LL10-11004760	SZ99 PIGMENTED NITROCELLULOSE TOPCOATS, LIGHT BLUE	0	63.361	661.71	382.6	1.0443	5	5.2215	3.30855	1.913
SZ99LW10-03619760-0.5LT	SZ99LW10-03619760	SZ99 PIGMENTED NITROCELLULOSE TOPCOATS, LIGHT WHITE	0	51.1747	596.73	569.3	1.166	10	11.66	5.9673	5.693
SZ99LW10-06795760-0.5LT	SZ99LW10-06795760	SZ99 PIGMENTED NITROCELLULOSE TOPCOATS, LIGHT WHITE	0	51.2519	597.21	568	1.1652	5	5.826	2.98605	2.84
SZ99MA10-06791760-0.5LT	SZ99MA10-06791760	SZ99 PIGMENTED NITROCELLULOSE TOPCOATS, MEDIUM GRAY	0	63.8714	672.47	380.3	1.0528	10	10.528	6.7247	3.803
SZ99MA10-06793760-0.5LT	SZ99MA10-06793760	SZ99 PIGMENTED NITROCELLULOSE TOPCOATS, MEDIUM GRAY	0	50.4081	589.21	579.6	1.1688	10	11.688	5.8921	5.796
SZ99MA10-07750760-0.5LT	SZ99MA10-07750760	SZ99 PIGMENTED NITROCELLULOSE TOPCOATS, MEDIUM GRAY	0	61.8278	667.03	411.8	1.0788	5	5.394	3.33515	2.059
SZ99MA10-11067760-0.5LT	SZ99MA10-11067760	SZ99 PIGMENTED NITROCELLULOSE TOPCOATS, MEDIUM GRAY	0	63.0835	667.61	390.6	1.0583	5	5.2915	3.33805	1.953
SZ99MG10-11081760-0.5LT	SZ99MG10-11081760	SZ99 PIGMENTED NITROCELLULOSE TOPCOATS, MEDIUM GREEN	0	47.0046	577.02	650.5	1.2275	5	6.1375	2.8851	3.2525
SZ99MH10-10452760-0.5LT	SZ99MH10-10452760	SZ99 PIGMENTED NITROCELLULOSE TOPCOATS, MEDIUM BEIGE, BUFF, IVORY	0	55.7726	641.29	508.5	1.1498	5	5.749	3.20645	2.5425
SZ99ML10-10584760-0.5LT	SZ99ML10-10584760	SZ99 PIGMENTED NITROCELLULOSE TOPCOATS, MEDIUM BLUE	0	60.2397	648.79	428.2	1.077	10	10.77	6.4879	4.282
SZ99MN10-03623760-0.5LT	SZ99MN10-03623760	SZ99 PIGMENTED NITROCELLULOSE TOPCOATS, MEDIUM BROWN, COPPER, BRONZE	0	47.0046	577.02	650.5	1.2275	80	98.2	46.1616	52.04

TH0720/00-12,5	TH0720/00	PU HARDENER NON YELLOWING - FOR MATT TOPCOATS AROMATICS FREE	0	74.71	702.56	237.8	0.940 3	4625	4348.88 75	3249. 34	1099.8 25
TH0767/00-12,5	TH0767/00	PU HARDENER	0	76.5	734.96	225.7	0.960 7	425	408.297 5	312.3 58	95.922 5
TH0790/00-1,2	TH0790/00	PU HARDENER NON YELLOWING	0	64	600.52	337.7	0.938 3	187.2	175.649 76	112.4 173	63.217 44
THL3355/00-5	THL3355/00	POLYISOCYANATE HARDENER FOR POLYURETHANE COATINGS	0	81.1	722.16	168.2	0.890 4	2320	2065.72 8	1675. 411	390.22 4
TU6110/00-25	TU6110/00	PU SELF-SEALER TRANSPARENT MATT	0	56.9152	561.73	425.2	0.986 9	100	98.69	56.17 3	42.52
TUL3535/13-20	TUL3535/13	ACRYLIC BASECOAT PIGMENTED WHITE	0	47.3245	603.08	671.2	1.274 3	9280	11825.5 04	5596. 582	6228.7 36
TZ7005/00-6	TZ7005/00	ACRYLIC PU TOPCOAT NON YELLOWING - TRANSPARENT, 5 GLOSS	0	73.1825	673.47	246.7	0.920 2	924	850.264 8	622.2 863	227.95 08
TZ99DA10- 05039760-5LT	TZ99DA10- 05039760	TZ99 - PIGMENTED POLYURETHANE TOPCOAT, DARK GRAY	0	46.0079	493.38	579	1.072 3	925	991.877 5	456.3 765	535.57 5
TZ99DA10- 07690760-5LT	TZ99DA10- 07690760	TZ99 - PIGMENTED POLYURETHANE TOPCOAT, DARK GRAY	0	42.5331	475.1	641.9	1.117	100	111.7	47.51	64.19
TZ99DL05- 07871760-5LT	TZ99DL05- 07871760	L7871 MATT PU TOPCOAT PRUSSIAN BLUE TZ9905 5L	0	46.1814	492.07	573.4	1.065 5	575	612.662 5	282.9 403	329.70 5
TZ99DL10- 06538760-5KG	TZ99DL10- 06538760	TZ99 - PIGMENTED POLYURETHANE TOPCOAT, DARK BLUE	0	43.2755	490.96	643.5	1.134 5	600.49	681.255 905	294.8 166	386.41 5315
TZ99LA10- 02931760-5KG	TZ99LA10- 02931760	L2931 MATT PU TOPCOAT GRAVEL TZ9910 5KG	0	33.9828	454.49	882.9	1.337 4	365.28	488.525 472	166.0 161	322.50 5712
TZ99LA10- 03988760-5LT	TZ99LA10- 03988760	TZ99 - PIGMENTED POLYURETHANE TOPCOAT, LIGHT GRAY	0	33.8276	453.88	887.8	1.341 7	125	167.712 5	56.73 5	110.97 5
TZ99LA10- 05761760-5KG	TZ99LA10- 05761760	L5761 MATT PU TOPCOAT LEAD TZ9910 5KG	0	33.6984	452.78	890.8	1.343 6	516.96	694.587 456	234.0 691	460.50 7968
TZ99LA10- 06406760-5KG	TZ99LA10- 06406760	TZ99 - PIGMENTED POLYURETHANE TOPCOAT, LIGHT GRAY	0	33.9574	456.12	887	1.343 2	36.8	49.4297 6	16.78 522	32.641 6
TZ99LA10- 06574760-5KG	TZ99LA10- 06574760	L6574 PALE SMOKE TZ9910 5KG	0	33.9249	456.03	888.2	1.344 2	587.86	790.201 412	268.0 818	522.13 7252

TZ99LG10-01437760-5LT	TZ99LG10-01437760	L1437A PU TOCOAT CORNFLOWER TZ9910 5L	0	34.1674	456.08	878.7	1.3348	525	700.77	239.442	461.3175
TZ99LG10-05758760-5KG	TZ99LG10-05758760	TZ99 - PIGMENTED POLYURETHANE TOPCOAT, LIGHT GREEN	0	34.1766	456.9	879.9	1.3368	367.47	491.233896	167.897	323.336853
TZ99LH10-00988760-5KG	TZ99LH10-00988760-5KG	TZ99 - PIGMENTED POLYURETHANE TOPCOAT, LIGHT BEIGE, BUFF, IVORY	0	34.2484	457.95	879.1	1.3371	111	148.4181	50.83245	97.5801
TZ99LH10-02766760-5KG	TZ99LH10-02766760	L2766 OYSTER PU TOPCOAT TZ9910 5KG	0	34.2642	457.91	878.5	1.3364	718.9	960.73796	329.1915	631.55365
TZ99LH10-03370760-5KG	TZ99LH10-03370760	L3370 BONE MATT PU TZ9910 5KG	0	34.291	458.18	877.9	1.3361	665.36	888.987496	304.8546	584.119544
TZ99LH10-05493760-5KG	TZ99LH10-05493760	L5493 MATT PU TOPCOAT CASHMERE TZ9910 5KG	0	33.6796	454.36	894.7	1.349	436.68	589.08132	198.4099	390.697596
TZ99LH10-06161760-5KG	TZ99LH10-06161760	TZ99 - PIGMENTED POLYURETHANE TOPCOAT, LIGHT BEIGE, BUFF, IVORY	0	33.0364	451.79	915.7	1.3675	33.3	45.53775	15.04461	30.49281
TZ99LL10-06495760-5KG	TZ99LL10-06495760	TZ99 - PIGMENTED POLYURETHANE TOPCOAT, LIGHT BLUE	0	33.9728	454.65	883.6	1.3382	313.59	419.646138	142.5737	277.088124
TZ99LW10-03369760-5KG	TZ99LW10-03369760	L3369 CHALK PU TOPCOAT TZ9910 5KG	0	34.2534	457.94	878.9	1.3369	442.56	591.658464	202.6659	388.965984
TZ99LW10-06598760-5KG	TZ99LW10-06598760	TZ99 - PIGMENTED POLYURETHANE TOPCOAT, LIGHT WHITE	0	34.3048	458.33	877.7	1.336	425.56	568.54816	195.0469	373.514012
TZ99MA10-03368760-5LT	TZ99MA10-03368760	TZ99 - PIGMENTED POLYURETHANE TOPCOAT, MEDIUM GRAY	0	44.2948	499.76	628.4	1.1282	25	28.205	12.494	15.71
TZ99MA10-05620760-5LT	TZ99MA10-05620760	TZ99 - PIGMENTED POLYURETHANE TOPCOAT, MEDIUM GRAY	0	40.2384	484.87	720.1	1.205	825	994.125	400.0178	594.0825
TZ99MA10-05716760-5KG	TZ99MA10-05716760	TZ99 - PIGMENTED POLYURETHANE TOPCOAT, MEDIUM GRAY	0	33.628	448.2	884.6	1.3328	93.04	124.003712	41.70053	82.303184
TZ99MA10-07397760-5LT	TZ99MA10-07397760	L7397 MATT PU TOPCOAT FJORD LIGHT GREY TZ9910 5L	0	34.0167	453.18	879	1.3322	275	366.355	124.6245	241.725
TZ99MA10-07670760-5LT	TZ99MA10-07670760	L7670 THYME TZ9910 5L	0	41.6788	489.84	685.4	1.1752	400	470.08	195.936	274.16

TZ99MH10-07157760-5LT	TZ99MH10-07157760	TZ99 - PIGMENTED POLYURETHANE TOPCOAT, MEDIUM BEIGE, BUFF, IVORY	0	41.862	494.66	686.9	1.1816	250	295.4	123.665	171.725
TZ99ML10-07156760-5LT	TZ99ML10-07156760	TZ99 - PIGMENTED POLYURETHANE TOPCOAT, MEDIUM BLUE	0	44.2286	492.15	620.5	1.1127	25	27.8175	12.30375	15.5125
TZ99ML10-07189760-5LT	TZ99ML10-07189760	L7189 MATT PU TOPCOAT 10% PALE NAVY TZ9910 5KG	0	42.9408	490.32	651.5	1.1418	400	456.72	196.128	260.6
TZ99ML10-10007760-5LT	TZ99ML10-10007760	BALTIC GREEN PU TOPCOAT BURBIDGE	0	43.3195	492.21	644	1.1362	255	289.731	125.5136	164.22
TZ99MN10-06537760-5LT	TZ99MN10-06537760	L6537 MATT PU TOPCOAT WARM PEWTER TZ9910 5L	0	33.6788	451.73	889.5	1.3412	225	301.77	101.6393	200.1375
WM1629-0005-20L	WM1629-0005	AQUALIGHT CLEAR 5	58.27855	5.34	55.86	380.3	1.0462	580	606.796	32.3988	220.574
								44779.8	47622.8327	28832.76	18244.3893

<u>Stock Code</u>	<u>Stock Description</u>	<u>S.G.</u>	<u>Solids (g/l)</u> <u>DEFRA 3</u>	<u>VOC (g/l)</u> <u>(DEFRA 4)</u>	<u>Quantity (L)</u> <u>DEFRA 5</u>	<u>Mass of</u> <u>Solvent (Kg)</u>	<u>Mass of</u> <u>Solids</u> <u>(Kg)</u>
31608/25/BRG	Standard Thinners	0.86	0.00	846.70	800.00	677.36	0.00
31608/25/CDE	Standard Thinners	0.86	0.00	846.70	13,700.00	11,599.79	0.00
52688/1/SAM	RECLAIMED OAK STAIN	0.88	12.39	870.09	1.00	0.87	0.01
52689/1/SAM	TRAVIATA STAIN	0.88	13.06	866.73	1.00	0.87	0.01
52690/1/SAM	MINK STAIN	0.88	12.43	866.53	1.00	0.87	0.01
52694/1/SAM	COTTON STAIN	0.94	97.67	843.64	1.00	0.84	0.10
Grand Totals					14,504.00	12,280.60	0.14

VOC AUDIT FOR BURBIDGE & SON LIMITED
01012019 - 31122019



Red Industries

Reference Number	Collection Date	Premises Code	Sequence Number	EWCC Code	WasteStream	Physical Form	Quantity	Size	Units	Container
187763	18-Dec-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	3	205	Litre	Drum
187763	18-Dec-19	BURBRI						205	Litre	Drum (C/T) Metal
187215	11-Dec-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	3	205	Litre	Drum
187215	11-Dec-19	BURBRI						205	Litre	Drum (C/T) Metal
186843	04-Dec-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	2	205	Litre	Drum
186843	04-Dec-19	BURBRI						205	Litre	Drum (C/T) Metal
186294	27-Nov-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	3	205	Litre	Drum
186294	27-Nov-19	BURBRI						205	Litre	Drum (C/T) Metal
185878	20-Nov-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	3	205	Litre	Drum
185518	13-Nov-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	4	205	Litre	Drum
184829	06-Nov-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	2	205	Litre	Drum
184644	30-Oct-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	4	205	Litre	Drum
183965	23-Oct-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	2	205	Litre	Drum
183965	23-Oct-19	BURBRI						205	Litre	Drum (C/T) Metal
183617	16-Oct-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	3	205	Litre	Drum

183617	16-Oct-19	BURBRI						205	Litre	Drum (C/T) Metal
183153	09-Oct-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	3	205	Litre	Drum
183153	09-Oct-19	BURBRI						205	Litre	Drum (C/T) Metal
182830	02-Oct-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	3	205	Litre	Drum
182830	02-Oct-19	BURBRI						205	Litre	Drum (C/T) Metal
182387	25-Sep-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	3	205	Litre	Drum
182387	25-Sep-19	BURBRI						205	Litre	Drum (C/T) Metal
181925	18-Sep-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	3	205	Litre	Drum
181925	18-Sep-19	BURBRI						205	Litre	Drum (C/T) Metal
181543	12-Sep-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	3	205	Litre	Drum
181543	12-Sep-19	BURBRI						205	Litre	Drum (C/T) Metal
181097	04-Sep-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	4	205	Litre	Drum
181097	04-Sep-19	BURBRI						205	Litre	Drum (C/T) Metal
180676	28-Aug-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	2	205	Litre	Drum
180676	28-Aug-19	BURBRI						205	Litre	Drum (C/T) Metal
180180	21-Aug-19	BURBID	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	4	205	Litre	Drum
180180	21-Aug-19	BURBID						205	Litre	Drum (C/T) Metal
179755	14-Aug-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	2	205	Litre	Drum

179755	14-Aug-19	BURBRI						205	Litre	Drum (C/T) Metal
179429	07-Aug-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	4	205	Litre	Drum
179429	07-Aug-19	BURBRI						205	Litre	Drum (C/T) Metal
178940	31-Jul-19	BURBID	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	2	205	Litre	Drum
178940	31-Jul-19	BURBID						205	Litre	Drum (C/T) Metal
178528	24-Jul-19	BURBID	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	4	205	Litre	Drum
178528	24-Jul-19	BURBID						205	Litre	Drum (C/T) Metal
178030	18-Jul-19	BURBID	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	4	205	Litre	Drum
178030	18-Jul-19	BURBID						205	Litre	Drum (C/T) Metal
177639	12-Jul-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	3	205	Litre	Drum
177162	03-Jul-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	4	205	Litre	Drum
176793	27-Jun-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	3	205	Litre	Drum
176249	19-Jun-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	2	205	Litre	Drum
175736	12-Jun-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	4	205	Litre	Drum
175348	05-Jun-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	2	205	Litre	Drum
175348	05-Jun-19	BURBRI						205	Litre	Drum (C/T) Metal
174861	30-May-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	4	205	Litre	Drum
174861	30-May-19	BURBRI						205	Litre	Drum (C/T) Metal

174341	22-May-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	3	205	Litre	Drum
174341	22-May-19	BURBRI						205	Litre	Drum (C/T) Metal
174004	15-May-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	3	205	Litre	Drum
174004	15-May-19	BURBRI						205	Litre	Drum (C/T) Metal
173507	08-May-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	2	205	Litre	Drum
173507	08-May-19	BURBRI						205	Litre	Drum (C/T) Metal
173116	01-May-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	3	205	Litre	Drum
173116	01-May-19	BURBRI						205	Litre	Drum (C/T) Metal
172667	24-Apr-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	2	205	Litre	Drum
172667	24-Apr-19	BURBRI						205	Litre	Drum (C/T) Metal
172144	17-Apr-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	3	205	Litre	Drum
172144	17-Apr-19	BURBRI						205	Litre	Drum (C/T) Metal
171628	10-Apr-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	3	205	Litre	Drum
171104	03-Apr-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	3	205	Litre	Drum
170621	27-Mar-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	3	205	Litre	Drum
170141	20-Mar-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	3	205	Litre	Drum
169582	13-Mar-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	3	205	Litre	Drum
169162	06-Mar-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	2	205	Litre	Drum

169162	06-Mar-19	BURBRI						205	Litre	Drum (C/T) Metal
168537	28-Feb-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	2	205	Litre	Drum
168537	28-Feb-19	BURBRI						205	Litre	Drum (C/T) Metal
167974	20-Feb-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	3	205	Litre	Drum
167974	20-Feb-19	BURBRI						205	Litre	Drum (C/T) Metal
167486	13-Feb-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	4	205	Litre	Drum
167486	13-Feb-19	BURBRI						205	Litre	Drum (C/T) Metal
166945	06-Feb-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	3	205	Litre	Drum
166945	06-Feb-19	BURBRI						205	Litre	Drum (C/T) Metal
166388	30-Jan-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	3	205	Litre	Drum
166388	30-Jan-19	BURBRI						205	Litre	Drum (C/T) Metal
165789	23-Jan-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	3	205	Litre	Drum
165789	23-Jan-19	BURBRI						205	Litre	Drum (C/T) Metal
165247	16-Jan-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	3	205	Litre	Drum
165247	16-Jan-19	BURBRI						205	Litre	Drum (C/T) Metal
164500	09-Jan-19	BURBRI	1	140603	PVC Paint Acrylic Acetone thinners (Sludge)	SL	4	205	Litre	Drum
164500	09-Jan-19	BURBRI						205	Litre	Drum (C/T) Metal
							150			

						150 x 205 litres	30,750 litres		
					@	0.49 g/l VOC	15,068		
						(same VOC content as Intercoat calculation)			