

St. Neads VOC Emissions Inventory

Emissions Summary

Vapor Return Efficiency = 99.6%

Emissions Source	Activity	Source Group	Throughput Material	Throughput, kg/year	VOC Loss, kg/year	Loss % (wt)	Vent ID	% Loss thru Vent	BASELINE - 1995										CURRENT - 1998				
									Loss thru Vent, kg/yr	Fugitive Loss, kg/yr	Total Loss, kg/yr	Annual Average Max 8-hr Vent Loss, kg/8-hr	Maximum 8-hr Vent Loss, kg/8-hr	Vapor Return?	Loss thru Vent, kg/yr	Fugitive Loss, kg/yr	Total Loss, kg/yr	Annual Average Max 8-hr Vent Loss, kg/8-hr	Maximum 8-hr Vent Loss, kg/8-hr				
Storage Tank 1	Solvent Storage	Storage Tanks	Solvent	41,969	26	0.1%	15	100%	26	-	26	0.0	12.1	N	18	-	18	0.0	12.1				
Storage Tank 2	Solvent Storage	Storage Tanks	Solvent	2,154,159	1,502	0.1%	14	100%	1,502	-	1,502	1.4	21.4	P	644	-	644	0.8	21.4				
Storage Tank 3	Solvent Storage	Storage Tanks	Solvent	2,154,159	1,502	0.1%	13	100%	1,502	-	1,502	1.4	21.4	P	644	-	644	0.8	21.4				
Storage Tank 4	Solvent Storage	Storage Tanks	Solvent	345,895	123	0.0%	23	100%	123	-	123	0.1	7.6	N	88	-	88	0.1	7.6				
Structures Walls (SW)	Mixing	Mixers	Compound	3,248,222	6,496	0.2%	11	20%	1,299	5,197	6,496	1.2	19.8	N	928	3,712	4,640	1.2	19.8				
Master Mix (MM)	Mixing	Mixers	Compound	3,248,222	6,496	0.2%	10	20%	1,299	5,197	6,496	1.2	19.8	N	928	3,712	4,640	1.2	19.8				
Small SW (SSW)	Mixing	Mixers	Compound	1,624,111	3,248	0.2%	9	20%	650	2,599	3,248	0.6	6.5	N	464	1,856	2,320	0.6	6.5				
Blend Tank 1	Load SFS	Blend Tanks	Compound	1,102,271	3,840	0.3%	6	100%	3,840	-	3,840	3.5	84.0	Y	11	-	11	0.0	0.3				
Blend Tank 2	Load SFS	Blend Tanks	Compound	1,102,271	3,840	0.3%	7	100%	3,840	-	3,840	3.5	84.0	Y	11	-	11	0.0	0.3				
Blend Tank 3	Load SFS	Blend Tanks	Compound	1,102,271	3,840	0.3%	5	100%	3,840	-	3,840	3.5	84.0	Y	11	-	11	0.0	0.3				
Blend Tank 4	Load SFS	Blend Tanks	Compound	1,102,271	3,840	0.3%	4	100%	3,840	-	3,840	3.5	84.0	Y	11	-	11	0.0	0.3				
Blend Tank 5	Load SFS	Blend Tanks	Compound	1,097,311	3,686	0.3%	8	100%	3,686	-	3,686	3.4	84.0	Y	11	-	11	0.0	0.3				
Blend Tank 6	Load SFS	Blend Tanks	Compound	1,097,311	3,686	0.3%	24	100%	3,686	-	3,686	3.4	84.0	Y	11	-	11	0.0	0.2				
Blend Tank 7	Load SFS	Blend Tanks	Compound	1,441,230	159	0.0%	25	100%	159	-	159	0.1	44.7	Y	0	-	0	0.0	0.2				
Blend Tank 1	Homogenize	Blend Tanks	Compound	1,102,271	5,500	0.5%	6	100%	5,500	-	5,500	5.0	72.2	Y	16	-	16	0.0	0.3				
Blend Tank 2	Homogenize	Blend Tanks	Compound	1,102,271	5,500	0.5%	7	100%	5,500	-	5,500	5.0	72.2	Y	16	-	16	0.0	0.3				
Blend Tank 3	Homogenize	Blend Tanks	Compound	1,102,271	5,500	0.5%	5	100%	5,500	-	5,500	5.0	72.2	Y	16	-	16	0.0	0.3				
Blend Tank 4	Homogenize	Blend Tanks	Compound	1,102,271	5,500	0.5%	4	100%	5,500	-	5,500	5.0	72.2	Y	15	-	15	0.0	0.3				
Blend Tank 5	Homogenize	Blend Tanks	Compound	1,097,311	5,280	0.5%	8	100%	5,280	-	5,280	4.8	72.2	Y	15	-	15	0.0	0.3				
Blend Tank 6	Homogenize	Blend Tanks	Compound	1,097,311	5,280	0.5%	24	100%	5,280	-	5,280	4.8	42.1	Y	15	-	15	0.0	0.2				
Blend Tank 7	Homogenize	Blend Tanks	Compound	1,441,230	223	0.0%	25	100%	223	-	223	0.2	31.4	Y	1	-	1	0.0	0.1				
Blend Tank 1	Breathe	Blend Tanks	Compound	1,102,271	110	0.0%	6	100%	110	-	110	0.1	0.1	N	78	-	78	0.1	0.1				
Blend Tank 2	Breathe	Blend Tanks	Compound	1,102,271	110	0.0%	7	100%	110	-	110	0.1	0.1	N	78	-	78	0.1	0.1				
Blend Tank 3	Breathe	Blend Tanks	Compound	1,102,271	110	0.0%	5	100%	110	-	110	0.1	0.1	N	78	-	78	0.1	0.1				
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Blend Tank 6	Breathe	Blend Tanks	Compound	1,097,311	100	0.0%	24	100%	100	-	100	0.1	0.1	N	71	-	71	0.1	0.1				
Blend Tank 7	Breathe	Blend Tanks	Compound	1,441,230	78	0.0%	25	100%	78	-	78	0.1	0.1	N	56	-	56	0.1	0.1				
Packaging	Packaging	Packaging	Compound	8,120,556	11,858	0.1%	NA	0%	-	11,858	11,858	-	-	P	-	4,235	4,235	-	-				
Total				87,651					62,800	24,851	87,651				4,392	13,515	17,907						

Notes:

- * "Annual Average Max 8-hr Vent Loss" refers to mass VOC lost per vent for a given activity averaged over the year based on 8,760 hr/yr -- calculated by Annual Loss/(8760/8)

Baseline production 8120556
 1998 Production 5800000
 Ratio 71%
 Solvent (C6) vendor VB 40%

Total Abated Emissions = 17,907
 Overall Reduction = 80%
 kg/yr

St. Neots VOC Emissions Inventory

Emissions Summary

Vapor Return Efficiency = 99.6%

Emissions Summary				BASELINE - 1995										CURRENT - 1998					
Emissions Source	Activity	Source Group	Throughput Material	Throughput, kg/yr	VOC Loss, kg/yr	Loss % (wt)	Vent ID	% Loss thru Vent	Loss thru Vent, kg/yr	Fugitive Loss, kg/yr	Total Loss, kg/yr	Annual Average Max 8-hr Vent Loss, kg/8-hr *	Maximum 8-hr Vent Loss, kg/8-hr	Vapor Return?	Loss thru Vent, kg/yr	Fugitive Loss, kg/yr	Total Loss, kg/yr	Annual Average Max 8-hr Vent Loss, kg/8-hr *	Maximum 8-hr Vent Loss, kg/8-hr
Storage Tank 1	Solvent Storage	Storage Tanks	Solvent	41,969	26	0.1%	15	100%	26	-	26	0.0	12.1	N	18	-	18	0.0	12.1
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Blend Tank 1	Load SFs	Blend Tanks	Compound	1,102,271	3,840	0.3%	6	100%	3,840	-	3,840	3.5	84.0	Y	11	-	11	0.0	0.3
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Blend Tank 6	Load SFs	Blend Tanks	Compound	1,097,311	3,686	0.3%	24	100%	3,686	-	3,686	3.4	58.8	Y	11	-	11	0.0	0.2
Blend Tank 7	Load SFs	Blend Tanks	Compound	1,441,230	159	0.0%	25	100%	159	-	159	0.1	44.7	Y	0	-	0	0.0	0.2
Blend Tank 1	Homogenize	Blend Tanks	Compound	1,102,271	5,500	0.5%	6	100%	5,500	-	5,500	5.0	72.2	Y	16	-	16	0.0	0.3
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Packaging	Packaging	Packaging	Compound	8,120,556	11,858	0.1%	NA	0%	-	11,858	11,858	-	-	P	-	4,235	4,235	-	-

Total **87,651** **62,800** **24,851** **87,651** **4,392** **13,515** **17,907**
 Total Abated Emissions = 17,907 kg/yr
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1998 Production 5800000

Ratio 71%

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