## Emissions to air from the former Bayer site at Hauxton, Cambridgeshire - 24 hour Monitoring Data

	Maximum air concentration (ppb) per 24hours (concentration exceeding 1ppb are reported only) (b)																						
Compound (a)	03/06/10	04/06/10	05/06/10	06/06/10	07/06/10	08/06/10	09/06/10	10/06/10	11/06/10	12/06/10	13/06/10	14/06/10	15/06/10	16/06/10	17/06/10	18/06/10	19/06/10	20/06/10	21/06/10	22/06/10	23/06/10	24/06/10	25/06/10
Acetic Acid	00/00/10	04/00/10	00/00/10	00/00/10	01/00/10	00/00/10	00/00/10	10/00/10	11/00/10	12/00/10	10/00/10	14/00/10	10/00/10	10/00/10	11/00/10	10/00/10	13/00/10	20/00/10	21/00/10	22/00/10	20/00/10	24/00/10	20/00/10
Benzene, 1-chloro-2-methyl																		1					
Benzene, 1,3-dichloro					1.7	2.23						1.2		1.78	1.64	1.36		1		1.34			
Benzene, 1,3-dichloro-2-methyl													1.02										
Benzene, 1,2-dichloro 3-methyl																							
Benzene, 1,4-dichloro																							
Benzene, 1,4-dichloro-2-methyl													2.54	3	3	1.67					1.39		1
Benzene, 1,2,3-trichloro-4-methyl																							
Benzene, 1,2,4-trichloro-3-methyl																							
Benzene, 1,2,3-trichloro																		1					
Benzene, 1.2.4-trimethyl															1.28								
Benzene, 1,3,5-trimethyl															1.20								
Benzeneacetic acid																							
Benzenepropanoic acid																							
Bis (2-chloroethyl) ether														1.02						1			
Butanoic acid																				1			
Butanoic acid, 3-methyl																					1		
Butyrolactone																					1		
Disulfide, dimethyl																		1					
N,N-Dimethyl-2-aminoethanol																		1					
Ethane, 1,1,2,2-tetrachloro-																		1					
Ethanol																		1					
Ethyl acetate																							
Ethylbenzene															1.76	1.00		+					l
Heptadecane															1.70	1.22		+					l
Heptane 2,2,4,6,6-pentamethyl																		+					l
n-Hexadecanoic acid																		+					l
cis-9-Hexadecenoic acid																		+					l
Heptane																		+					l
Hydroquinone																		1					
Indole																		1					
Isopropyl alcohol																		1					
Naphthalene																		1					
Naphthalene 1-methyl														1.02	1.36	1.00		1					
Naphthalene 2-methyl														1.02	1.30	1.03		1					
Nonane																		1					
Octane																		1					
Pentadecane																		1					
Pentanoic acid, 2-methyl														<del> </del>						<del> </del>	+		<u> </u>
Pentanoic acid, 2-methyl														<del> </del>						<del> </del>	+		<u> </u>
2-Piperidinone														<del> </del>						<del> </del>	+		<u> </u>
2,5-Piperazinedione, 3-methyl-6-(phenylmethyl)-																							┝───┤
Phenol, 2,4-dichloro-6-methyl																						1.11	┢───┤
2-Pyrrolidinone																					1		<b>├───</b> ┤
Pyrrolidinone														1						1			
Pyrrolo[1,2-a]pyrazine-1, 1,4-dione, hexahydro																							$\vdash$
o-Xylene														1.36	1.55						1		<b>├───</b> ┤
p-Xylene						1.17						2.28	2.54	4	6	5			1.39	1.1	1.24	1.41	<b>├───</b> ┤
mp-Xylene						1.17						2.20	2.04	-	v	U			1.00		1.29	1.41	<b>├───</b> ┤
Tetrachloroethylene	3				1.24	7		<1				5	5	7	4	3			4	5	4	8	8
Tetradecanoic acid	•				1.29			~ .				5	•		-	0			-		-	0	<u> </u>
Toluene	6				6	16	1.26	<1	1.92			18	17	29	50	46			21	17	17	20	16
	0				0	10	1.20	~ '	1.52			10	17	23	50	40			21		.,	20	10
Trichloroethylene														<u> </u>						<u> </u>			<b>↓</b> ]
Tridecane																							<u> </u>

Location of maximum concentration are identified using the following colour coding (values in **bold italics** exceed guideline): MH (Mill House) SS (substation) GA (gardens) 10/06/10 - no VOC results above 1ppb

				I	Maximum a	ir concentr	ation (ppb)	per 24hou	rs (concent	tration exce	eding 1ppl	b are repor	ted only) (b	<b>)</b>							
Compound (a)	26/06/10	27/06/10	28/06/10	29/06/10	30/06/10	01/07/10	02/07/10	03/07/10	04/07/10	05/07/10	06/07/10	07/07/10	08/07/10	09/07/10	10/07/10	11/07/10	12/07/10	13/07/10	14/07/10	15/07/10	16/07/10
Acetic Acid																					
Benzene, 1-chloro-2-methyl																					
Benzene, 1,3-dichloro			3								2.35	1.39	3	1.02							
Benzene, 1,3-dichloro-2-methyl																					
Benzene, 1,2-dichloro 3-methyl										1.17	1.18		1.99						1.25		
Benzene, 1,4-dichloro				3	3	23	7														
Benzene, 1,4-dichloro-2-methyl																					
Benzene, 1,2,3-trichloro-4-methyl																					
Benzene, 1,2,4-trichloro-3-methyl																					
Benzene, 1,2,3-trichloro																					
Benzene, 1,2,4-trimethyl																					
Benzene, 1,3,5-trimethyl																					
Benzeneacetic acid																					
Benzenepropanoic acid																					
Bis (2-chloroethyl) ether													1.37								
Butanoic acid																					
Butanoic acid, 3-methyl																					
Butyrolactone																					
Disulfide, dimethyl													1								-
N,N-Dimethyl-2-aminoethanol													1								7
Ethane, 1,1,2,2-tetrachloro-			1.04										1								'
Ethanol			1.04	43						16											1
Ethyl acetate				43						10											<b>├</b> ───┤
	-			1.1															4.04		L
Ethylbenzene																			1.24		<b>↓</b>
Heptadecane			-										1				-				
Heptane 2,2,4,6,6-pentamethyl			-										1				-				-
n-Hexadecanoic acid																					5
cis-9-Hexadecenoic acid																					2
Heptane			-										1								-
Hydroquinone			-										1								5
Indole			-										1								1.64
Isopropyl alcohol			-										1								
Naphthalene																					
Naphthalene 1-methyl																					L
Naphthalene 2-methyl																					L
Nonane																					
Octane				_																	
Pentadecane				2																	
Pentanoic acid, 2-methyl																					
Pentanoic acid, 4-methyl																					
2-Piperidinone																					1.00
2,5-Piperazinedione, 3-methyl-6-(phenylmethyl)-													ļ								1.36
Phenol, 2,4-dichloro-6-methyl																					
2-Pyrrolidinone																					6
Pyrrolidinone													ļ								3
Pyrrolo[1,2-a]pyrazine-1, 1,4-dione, hexahydro																					3
o-Xylene																					
p-Xylene			2.12								1.2		1.91				2.04		5	1.51	1.53
mp-Xylene					1.03		1.63														
Tetrachloroethylene			5	13	7	15	16			20	10	8	13	10			3	3	9	6	8
Tetradecanoic acid																					
Toluene			19	28	32	104	45			47	21	12	18	8			12	6	33	13	18
Trichloroethylene																					
Tridecane				2		4							1								
Indecane				2		4															1

bisinger subsidye  images  <							I	Maximum a	ir concentr	ation (ppb)	per 24hou	rs (concent	tration exc	eeding 1pp	b are repor	ted only) (b	<b>)</b> )					
book	Compound (a)	17/07/10	18/07/10	19/07/10	20/07/10	21/07/10	22/07/10	23/07/10	24/07/10	25/07/10	26/07/10	27/07/10	28/07/10	29/07/10	30/07/10	31/07/10	01/08/10	02/08/10	03/08/10	04/08/10	05/08/10	06/08/10
Borner  1-Schlor  Schlor	Acetic Acid																					
Borner      Addition J andition      Set	Benzene, 1-chloro-2-methyl							2.71						1.81				1.43			1.1	
Barbar      Scalebo Andiy      Scalebo Andiy<	Benzene, 1,3-dichloro			12	8	7	1.91	12											3.45			1
Barone, 1.4.2.A.De      Barone	Benzene, 1,3-dichloro-2-methyl																			1.61		
Brane, 12 Androis-Sampi,      Brain, 12 Androis-Sampi, <td>Benzene, 1,2-dichloro 3-methyl</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.27</td> <td></td> <td></td> <td></td> <td></td>	Benzene, 1,2-dichloro 3-methyl							3										1.27				
Brane, 12 Androis-Sampi,      Brain, 12 Androis-Sampi, <td>Benzene, 1,4-dichloro</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.48</td> <td>1.38</td> <td></td> <td>1.99</td> <td></td> <td></td> <td></td> <td>8.28</td> <td></td> <td>2.03</td> <td>2.67</td> <td>1.49</td>	Benzene, 1,4-dichloro										1.48	1.38		1.99				8.28		2.03	2.67	1.49
Barase, 12 stockson-streyl      B </td <td>Benzene, 1,4-dichloro-2-methyl</td> <td></td> <td>1.4</td> <td></td> <td></td> <td></td> <td>4.66</td> <td></td> <td>4.09</td> <td>2.02</td> <td></td>	Benzene, 1,4-dichloro-2-methyl													1.4				4.66		4.09	2.02	
Brane  1.2  1.2  1.4	Benzene, 1,2,3-trichloro-4-methyl																	1.35				
genome  1.2.4 dimentify  I <td< td=""><td>Benzene, 1,2,4-trichloro-3-methyl</td><td></td><td></td><td></td><td></td><td></td><td></td><td>2</td><td></td><td></td><td></td><td>1.2</td><td>1.04</td><td>5</td><td></td><td></td><td></td><td>3.07</td><td>1.17</td><td>2.54</td><td>2.08</td><td>1.02</td></td<>	Benzene, 1,2,4-trichloro-3-methyl							2				1.2	1.04	5				3.07	1.17	2.54	2.08	1.02
genome  1.2.4 dimentify  I <td< td=""><td>Benzene, 1,2,3-trichloro</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Benzene, 1,2,3-trichloro																					
Beamery      <																				1.2		
Improvementand      Improvementand     Improvementand     Improvem														1.61								
Barane-posinic add      Image      Image <td></td>																						
Bis (2house)  Bis (3house)  Bis (3houo																						
Buttone addButtone addSum of add <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.58</td> <td></td>								1.58														
Butone doci														1								1
Burgedance      Burgeda														Ì								1
Dealing any phyDealing any phy			1											Ì								2.82
NADemonsphale      NADemonsphale      NADemonsphale      NADemonsphale      NADemonsphale      NADE      NADE <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>5.06</td><td></td></t<>																					5.06	
Ethane 1.1.2.2.Astrachloro																						
EndEndImageIma																						
Ethy leadain terp between terp b																						69
EthylogenenIm			1																			00
Heipsing 2.4.Gentame 1.4.Image:				-										2.06						1 05	1.55	
Heptane 2,2,4,6,6 pentamethy/ hereadeconic acidImage: Mark and		_										2		3.00						1.95	1.55	
n-hescande and cos-Horse for allIII <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><b> </b></td> <td></td>		_										2									<b> </b>	
sis-9-Haydeenderic aid  image: sis-9-HAYDAYAA  image: sis-9-HAYDAYAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA		_																			<b> </b>	
HeptaneHeptaneHeIn		_																			<b> </b>	
hydroguinoneIII <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td><b></b></td><td></td></th<>																					<b></b>	
Indiv Isoport Isop		_																			<b> </b>	<b>├</b> ──┤
isopropriatedondisopr		_																			<b> </b>	<b>├</b> ──┤
NaphlabeeNaphlabeeImage<		_																			<b> </b>	<b>├</b> ──┤
Naphtalene 1-methylImage of the stress of the s		_																			<b> </b>	<b>├</b> ──┤
Naphtalene 2-methylIII<		_																			<b> </b>	<b>├</b> ──┤
Nonae    Image    Image <th< td=""><td></td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td><b> </b></td><td><b>├</b>──┤</td></th<>		_																			<b> </b>	<b>├</b> ──┤
Octame    Image: Mode of the Mode o																					<b></b>	
Pentadecane      Image: Constraint of the state																					<b></b>	
Pentanoic acid, 2-methylImage: sector of the se																					<b>└───</b>	4
Pentanci acid, 4-methylImage: Marking																					L	┥───┤
2-Piperainatione    Image: Serie diverse in the se																					L	┥───┤
2.5-Piperazinedione, 3-methyl-6-(phenylmethyl)-    I    <		_																			<b> </b>	
Phenol, 2.4-dichloro-6-methylImage: Market Mar		_																			<b> </b>	<u> </u>
2-Pyrolidinone    Image: style intervalue		_																4.40			<b> </b>	<u> </u>
Pyriolidinone    Image: Mark Mark Mark Mark Mark Mark Mark Mark				L				l			L				L			1.12	ļ		<b>↓</b>	4
Pyrolo[1,2-a]pyrazine-1, 1,4-dione, hexahydro    Image: model in the image: model i														<u> </u>							┢────	<b>↓</b>
o-Xylene    in i														<u> </u>							┢────	<b>↓</b>
p-Xylene    2.27    1.14    1.74    4    4    2.66    1    1    4.59    2.17    8.63    5.71    2.97      mp-Xylene    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    1    2.97    1.44    1    2.96    1    1    1    1    1    1    1    2.96    2.9    1    1    1    1    1    1    2.96    2.9    1    <				L				l			L			10	L				L	1.01	<b></b>	∔]
mp-Xylene				0.07							0.00	3.2	4	13	ļ			1.50	0.47			4
Tetrachloroethylene    8    10    9    11    18    7    12    9    16    8    19.41    11.75    15.44    14    17      Tetrachloroethylene    0 </td <td></td> <td></td> <td></td> <td>2.27</td> <td>1.14</td> <td>1.74</td> <td></td> <td>4</td> <td></td> <td></td> <td>2.66</td> <td></td> <td></td> <td><u> </u></td> <td>L</td> <td></td> <td></td> <td>4.59</td> <td>2.17</td> <td>8.63</td> <td>5.71</td> <td></td>				2.27	1.14	1.74		4			2.66			<u> </u>	L			4.59	2.17	8.63	5.71	
Tetradecanoic acid    Image: scale of the scale of th						-					_				-						<b></b>	
Toluene    28    21    12    18    29    13    13    15    34    11    24.91    18.53    74.92    32    41      Trichloroethylene    0	I etrachloroethylene			8	10	9	11	18			7	12	9	16	8			19.41	11.75	15.44	14	17
Trichloroethylene      Image: Market and Mar	Tetradecanoic acid																				1	
	Toluene			28	21	12	18	29			13	13	15	34	11			24.91	18.53	74.92	32	41
	Tridecane																					1 1

Compound (a)      07/08/10      08/08/10      09/08/10      10/08/10      11/08/10      13/08/10      13/08/10      15/08/10        Acetic Acid      Image: Compound (a)      Image: Compound (a) <t< th=""><th>16/08/10</th><th>17/08/10</th><th>18/08/10</th><th>19/08/10</th><th>20/08/10</th><th>21/08/10</th><th>00/00/40</th><th></th><th></th><th></th><th></th><th></th></t<>	16/08/10	17/08/10	18/08/10	19/08/10	20/08/10	21/08/10	00/00/40					
Acetic Acid  1.33  2.38  2.12    Benzene, 1.3-dichloro-2-methyl  1.33  2.38  2.12    Benzene, 1.3-dichloro-2-methyl  1.33  1.33  1.33    Benzene, 1.3-dichloro-2-methyl  1.33  1.33  1.33    Benzene, 1.2-dichloro-3-methyl  1.33  1.33  1.33		11/00/10	10/00/10	13/00/10				23/08/10	24/08/10	25/08/10	26/08/10	27/08/10
Benzene, 1-chloro-2-methyl      1.33      2.38      2.12        Benzene, 1,3-dichloro-2-methyl           Benzene, 1,3-dichloro-3-methyl	1 44						11/00/10	20,00,10	, 00, 10	20/00/10	7.24	1.90
Benzene, 1,3-dichloro-2-methyl      Image: Constraint of the second seco	4 44											
Benzene, 1,2-dichloro 3-methyl	1.41	1.45		1.43	15			6	7		3.11	3.16
Benzene, 1,2-dichloro 3-methyl												
												1
Benzene, 1,4-dichloro 1.06 1.89 3.38 1.17												1
Benzene, 1,4-dichloro-2-methyl												1
Benzene, 1,2,3-trichloro-4-methyl												
Benzene, 1,2,4-trichloro-3-methyl 1.1 1.5 1.73	1.26				1.03				1.1			1.21
Benzene, 1,2,3-trichloro									2.11			1
Benzene, 1,2,4-trimethy 1,76												2.48
Benzene, 1.3.5-trimethy												2.40
Benzeneacetic acid								73				1
Benzenepropanoic acid								103				
Bis (2-chloroethyl) ether	1.32	1										t
Butanic acid								84				+
Butanoic acid, 3-methyl		1						63				1
Buttrolactone		1										1
Disulfide, dimethyl		1										+
N-Dimethyl-2-aminoethanol												1
Ethane, 1,1,2,2-tetrachloro-												1
Ethanol												1
Ethyl acetate		1										
Ethylenzene 1.21 1.79 1.08									1.17		1.03	10
Eurypenzene 1.21 1.79 1.00 Heptadecane									1.17		1.05	10
Trepladecarie Heptane 2,2,4,6,6-pentamethyl Heptane 2,4,6,6-pentamethyl												F
Treplane 2,2,4,0,0-periatrieuty								45				5
In revalue and control and con								40				
US-97 TRADUCTION CALL												
Hydroquinone												+
Indole	-							26				-
Incole 1.18 1.44								20				
Isopropyratorio 1.10 1.44 1									1.21			
Napitulaiene 1-methyl									1.21			1.56
Naphtalene 2-methyl												1.50
Nonane 1.81												+
Notarie Lot Cotane 227	1.14											
Uctane 2.21 Catalogue Pentadecane	1.14											+
Pentaocarie Pentao								31				+
Pentanoic acid, 4-methyl Pentanoic acid, 4-met								66				+
Pentanoic acio, 4-menyi								333				+
2-Preprioritione								555				+
2,3+rperazineutone, 3-menty-o-(prierly/menty)-												+
Phenol, 2,4-0ichioro-e-interityi 2-Pyrrolidinone												+
2-Pyrolidinoite												+
Pyrrologi 1,2-a)pyrazine-1, 1,4-dione, hexahydro			<u> </u>									+
Pyroloj .2-apyrazine-1, 1,4-olone, nexanyoro											1	0
0-Xylene	1.93				2.09			2.22	4.27		4.34	o 25
	1.93		<u> </u>		2.09			2.22	4.27		4.34	23
	12	7	2.05	0	14			0	17	-1	12	15
Tetrachloroethylene 12 13 9 53 17	12	/	3.95	9	14			0	17	<1	12	15
Tetradecanoic acid								17				
Toluene 24 18 12 9 26	30	9	3.74	13	28			9	22	<1	10	14
Trichloroethylene 2.87 2.95	1.33										2.58	
Tridecane La												1

	Maximum air concentration (ppb) per 24hours (concentration exceeding 1ppb are reported only) (b)																					
Compound (a)	28/08/10	20/08/10	30/08/10	31/08/10	01/00/10	02/00/10	03/00/10	04/00/10	05/00/10	06/00/10	07/00/10	08/00/10	00/00/10	10/00/10	11/00/10	12/00/10	13/00/10	14/00/10	15/00/10	16/00/10	17/00/10	
Acetic Acid	20/00/10	20/00/10	00/00/10	01/00/10	01/03/10	02/03/10	00/00/10	04/03/10	00/00/10	00/00/10	01/00/10	00/00/10	03/03/10	10/03/10	11/03/10	12/03/10	10/00/10	14/03/10	10/00/10	2.87	11/03/10	
Benzene, 1-chloro-2-methyl																				1.63		
Benzene, 1.3-dichloro				3.27	6	3.78	7				1.76	3.08		11				14	16			
Benzene, 1,3-dichloro-2-methyl					-																	
Benzene, 1,2-dichloro 3-methyl					1.67		1.53				1.27									2.35		
Benzene, 1,4-dichloro																						
Benzene, 1,4-dichloro-2-methyl																						
Benzene, 1,2,3-trichloro-4-methyl					1.82						1.21	1.8								2.11		
Benzene, 1,2,4-trichloro-3-methyl				1.69	4	1.47	3.3			1.41	2.9	2.35		1.12			4.25	1.59	1.57	5		
Benzene, 1,2,3-trichloro																				2.01		
Benzene, 1,2,4-trimethyl																						
Benzene, 1,3,5-trimethyl					1.54																	
Benzeneacetic acid					1.04																	
Benzenepropanoic acid																						
Bis (2-chloroethyl) ether					1.29						2.76									2.7		_
Butanoic acid																						
Butanoic acid, 3-methyl													Ì									
Butyrolactone													Ì									
Disulfide, dimethyl													1									
N,N-Dimethyl-2-aminoethanol																						
Ethane, 1,1,2,2-tetrachloro-																						
Ethanol													1									
Ethyl acetate																						
Ethylbenzene				1.18								4.16								1.87		
Heptadecane																						
Heptane 2.2.4.6.6-pentamethyl					1.37														1.17			
n-Hexadecanoic acid																						
cis-9-Hexadecenoic acid																						
Heptane																						
Hydroquinone													Ì									
Indole																						
Isopropyl alcohol													1									
Naphthalene							3.46					1.73	l I									
Naphthalene 1-methyl							5					2.12	1									
Naphthalene 2-methyl							1.65															
Nonane																						
Octane													1									
Pentadecane																						
Pentanoic acid, 2-methyl																						
Pentanoic acid, 4-methyl																						
2-Piperidinone																						
2,5-Piperazinedione, 3-methyl-6-(phenylmethyl)-																						
Phenol, 2,4-dichloro-6-methyl					1.22						2.11											
2-Pyrrolidinone																						
Pyrrolidinone																						
Pyrrolo[1,2-a]pyrazine-1, 1,4-dione, hexahydro																						
o-Xylene				1.08		1.13						4.28										
p-Xylene				5.08	2.54	3.92	3.98				2.05	15	1.71	1.49			1.04	1.63	1.68	7		
mp-Xylene																						
Tetrachloroethylene				15	24	8	23			16	25	17	4.01	11			10	13	13	26		
Tetradecanoic acid																						
Toluene				24	12	4.3	10			3.52	11	10	3.82	28			9	20	20	42		
Trichloroethylene				27	14		3.45				1.5	10	0.02	20			5	20	20	76		
							0.40				1.3											
Tridecane													1									

## Available Guidelines and Standards

					Acute Exposure		rations in indoc	or air (h) (pp
	WHO Air Quality	UK long term Environmental		Workplace Exposure Levels (WELs). Long Term		Existing	New	
Compound (a)		Assessment Level (ppb) (d)	Irritation threshold (ppb) 8hrs exposure unless stated (e)	Exposure Level (8hour) (ppb) (f)	Level 1 8hour (ppb) (g)	Residential	Residential	Office
Acetic Acid	N/A	101.8	10000	(10000 ACGIH TLV TWA)	N/A	81	280	
Benzene, 1-chloro-2-methyl	N/A	N/A	50000	(50000 ACGIH TLV TWA)	N/A			
Benzene, 1,3-dichloro	N/A	N/A	80000 (10ppb_US ATSDR Chronic ≥1 year MRL)	25000 (para-dichlorobenzene)	N/A			
Benzene, 1,3-dichloro-2-methyl	N/A	N/A		N/A	N/A			
Benzene, 1,2-dichloro 3-methyl	N/A	N/A		N/A	N/A			
Benzene, 1,4-dichloro	N/A	254	80000	25000	N/A	26		/
Benzene, 1,4-dichloro-2-methyl	N/A	N/A		N/A	N/A			
Benzene, 1,2,3-trichloro-4-methyl	N/A	10.25 (1,2,4 trichlorobenzene)	3000 (total trichlorobenzenes)	N/A	N/A			
Benzene, 1,2,4-trichloro-3-methyl	N/A	10.25 (1,2,4 trichlorobenzene)	3000 (total trichlorobenzenes)	N/A	N/A			
Benzene, 1,2,3-trichloro	N/A	N/A	3000-5000	1000 (1,2,4 trichlorobenzene)	N/A			
Benzene, 1,2,4-trimethyl	N/A	254 total trimethylbenzenes	25000 (no effect for 2 hrs) total trimethylbenzenes	25000 (trimethylbenzene all isomer or mixtures)	45000			2.9
Benzene, 1,3,5-trimethyl	N/A	254 total trimethylbenzenes	25000 (no effect for 2 hrs) total trimethylbenzenes	25000 (trimethylbenzene all isomer or mixtures)	45000	6.5		1.1
Benzeneacetic acid	N/A	N/A		N/A	N/A			
Benzenepropanoic acid	N/A	N/A		N/A	N/A			
Bis (2-chloroethyl) ether	N/A	N/A	(no irritation at <35000ppm)	(5000 ACGIH TLV TWA)	N/A			┥────
Butanoic acid	N/A	N/A	(mild skin irritant levels at which irritation could occur not noted in literature)	N/A	N/A			+
Butanoic acid, 3-methyl	N/A	N/A	(levels at which irritation could occur not noted in literature)	N/A	N/A			+
Butyrolactone	N/A	N/A			N/A			+
Disulfide, dimethyl	N/A	N/A		(500 ACGIH TLV TWA)	N/A			
N,N-Dimethyl-2-aminoethanol	N/A	N/A		2000	N/A			
Ethane, 1,1,2,2-tetrachloro-	N/A	N/A	145000 (for 30 mins - irritation)	(1000 ACGIH TLV TWA)	N/A			
Ethanol	N/A	N/A	8840000 (for 1 hour - nasal irritation and momentary intolerable odour)	1000000	N/A			
Ethyl acetate	N/A	N/A	(>400000 for 3-5 minutes can lead to irriitiation of eye, nose and throat)	200000	N/A			
Ethylbenzene	N/A	1016	100000 irritant for long term exposure (total ethyl benzenes)	100000	33000			
Heptadecane	N/A	N/A		N/A	N/A			
Heptane 2,2,4,6,6-pentamethyl	N/A	N/A		N/A	N/A			
n-Hexadecanoic acid	N/A	N/A		N/A	N/A			
cis-9-Hexadecenoic acid	N/A	N/A		N/A	N/A			
Heptane	N/A	N/A		500000	N/A			
Hydroquinone	N/A	N/A	(levels at which irritation could occur not noted in literature)	110	N/A			
Indole	N/A	N/A		N/A	N/A			
Isopropyl alcohol	N/A	N/A	400000	400000	N/A			
Naphthalene	N/A	N/A	75000	(10000 Naphthalene ACGIH TLV TWA)	N/A	0.95		1.9
Naphthalene 1-methyl	N/A	N/A	75000	(10000 Naphthalene ACGIH TLV TWA)	N/A			
Naphthalene 2-methyl	N/A	N/A	75000	(10000 Naphthalene ACGIH TLV TWA)	N/A			
Nonane	N/A	N/A	(levels at which irritation could occur not noted in literature)	(200000 ACIGH TLV TWA)	N/A			
Octane	N/A	N/A	310224	(300000 ACIGH TLV TWA)	N/A			
Pentadecane	N/A	N/A	(levels at which irritation could occur not noted in literature)	N/A	N/A			
Pentanoic acid, 2-methyl	N/A	N/A	(no human data)	N/A	N/A			
Pentanoic acid, 4-methyl	N/A	N/A	(no irritant data in literature)	N/A	N/A			
2-Piperidinone	N/A	N/A		N/A	N/A			
2,5-Piperazinedione, 3-methyl-6-(phenylmethyl)-	N/A	N/A		N/A	N/A			
Phenol, 2,4-dichloro-6-methyl	N/A	N/A	5000	N/A	N/A			
2-Pyrrolidinone	N/A	N/A		N/A	N/A			
Pyrrolidinone	N/A	N/A		N/A	N/A			
Pyrrolo[1,2-a]pyrazine-1, 1,4-dione, hexahydro	N/A	N/A		N/A	N/A			
o-Xylene	N/A	1016 (total xylenes)	110000 (total xylenes)	50000	130000	14	4.4	
p-Xylene	N/A	1016 (total xylenes)	110000 (total xylenes)	50000	130000	67	11	
mp-Xylene	N/A	1016 (total xylenes)	110000 (total xylenes)	50000	130000	67	11	
Tetrachloroethylene	37	509	50000	50000	35000			
Tetradecanoic acid	N/A	N/A	(moderate irritant but levels at which irritation could occur not noted in literature)	N/A	N/A			
Toluene	69	507	50000	50000	200000	1		t
Trichloroethylene	43000, 4300, 430 #	205	200000 (transient eye irritation)	100000	77000	1		t
-	43000, 4300, 430 N/A	N/A	(levels at which irritation could occur not noted in literature)	N/A	N/A			+
Tridecane		time risk of 1:10 000, 1:100 000 a		IVA	ראיו			

US ATSDR = United States Agency For Toxic Substances And Disease Registry. MRL = Minimum Risk Level

 

 Location of maximum concentration are identified usi

 MH (Mill House)
 U

 SS (substation)
 A

 GA (gardens)
 O

ACGIH = American Conference of Governmental Industrial Hygienists. TLV = Threshold Limit Values OEL = Occupational exposure limit. US CDC = United States Centre for Disease Control.

Guide to the VOC monitoring results summary sheet

This summary presents the results of 24 hour VOC monitoring results from 3 locations: Mill House to the north of the site, gardens to the south of the site and substation on the site. The maximum VOCs found at levels above 1 part per billion are listed. The names of the chemicals, the levels found and data about the identified VOCs are presented in horizonal rows across the table.

Column (a) - Lists the individual VOCs identified above 1ppb.

Column (b) - Lists the maximum monitoring results for these VOCs and identifies the location of the maximum concentration.

Column (c) - Lists the World Health Organisation air quality guideline levels for the VOCs, where available. These guideline levels provide a basis for protecting public health from adverse effects of air pollution. They are calculated to protect the health of the whole population, including susceptible groups, based on a lifetime exposure to the chemicals.

Column (d) - Lists the Environmental assessment levels (EALs) for the identified VOCs. EALs are calculated for the protection of health by the Environment Agency. They are used to provide direction in the risk management decisions for industrial processes under the Environmental Permitting (England and Wales) Regulations 2010.

Column (e) - Lists the results of studies of health effects arising from exposure to VOCs. The levels shown indicate the amount of the VOC required in the air to lead to health effects such as irritation. Taken from Bingham et al, Patty's Toxicology 5th Ed, Wiley Ltd, 2001

Column (f) - List Long Term Workplace Exposure Levels (WELs) as detailed in Health and Safety Executive (HSE) EH40 Workplace exposure limits, updated 2007. Values in backets are American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLV) based on 8hour time weighted average (TWA)

Column (g) - Lists the US Environmental Protection Agency's (US EPA) Acute Exposure Guideline Levels (AEGLs). AEGLs represent threshold exposure limits via inhalation for the general public and are applicable to emergency exposure periods ranging from 10 minutes to 8 hours. AEGL-1 is the airborne concentration, expressed as parts per billion of a substance above which it is predicted that the general population, including susceptible individuals, could experience notable discomfort, irritation, or certain asymptomatic nonsensory effects. However, the effects are not disabling and are transient and reversible upon cessation of exposure. (http://www.epa.gov/opptintr/aegl/)

Column (h) - Lists the maximum levels of the VOCs found in a study of indoor air quality in the US. taken from A.T. Hodgson and H. Levin, 2003. Classification of Measured Indoor Volatile Organic Compounds Based on Noncancer Health and Comfort Considerations. LBNL 53308. Berkeley. http://eetd.lbl.gov/ied/pdf/LBNL-53308.pdf.Affairs in 2002