

+

2015

2018 10

“ ”

“ + ”

[2017]57

2018 8 10

“ + ”

[2018]142

“

”

1	.....	1
2	.....	13
3	.....	14
4	.....	20
5	.....	22
6	.....	25

- 1
- 2
- 3
- 4
- 5
- 6

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

1

				4	202
	13967987989		/		310000
				4	&&&
				/	
				M7340	
	2683.35			/	
	3650.93		15	%	0.41%
	/			2018.12	

1.1

1.1.1

1 2018 6

4-202

2683.35m²

682

(GB/T4754-2017)

“M7340

”

“ 108

” “ ”

+

[2018]142

1.1.2

1

4 202

2

2015.11

0104-VI-0-1

1-1

1-1

	10.31		1
			2
	- - -		3
	- - -		4
	- - -	1 IV	
0104-VI-0-1	- - -	2	
	- - -	3	5
		4	6
			7

	34	22	37	32	33	38
			47	75	100	
	106				107	
	108					

0104-VI-0-1

3

1

3.41

&

% %

1-2

1-1						
	1	2	3	4	5	
		6				
1	1-1.1	1-1.2				
		2018		VOCs	VOCs	
			55		50%	
2	1-1.2					

					VOCs
		2018		VOCs	
	3	2			
1-2					
	1		2	3	
					4
1-3					
	1				
	2				

% % &

% &

4

(2011) (2013)

(2013) “

”

1.2

1.2.1

1 2015.1.1

2 2018.1.1

3 2016.1.1

4		1997.3.1	
5		2016.11.7	
6		2016.9.1	
7		2009.1.1	
8	<		>
2018.4.28			
9			1 2018.4.28
10		[2012]77	
		2012.7.3	
11		39	2016.8.1
12		[2014]197	<
		>	2014.12.31
1.2.2			
1		364	2018.3.1
2		216	(2015)
2015.12.28			
3		[2012]10	
	()	2012.4.1	
4			
2017.11.30			
5			
2016.7.1			
6			
2013.12.19			
7		[2009]76	
		2009.10.29	
8		[2016]11	2016.7.8
9		[2010]132	
		2010.10.9	
10			(2015)

[2015]71 2015.6.29

1.2.3

1	HJ2.1-2016	2017.1.1
2	HJ2.2-2008	
2009.4.1		
3	HJ/T2.3-1993	1994.4.1
4	HJ2.4-2009	
2010.4.1		
5	HJ19-2011	

2683.35m²**1**

1-3

1-3

		/		
1		DGN-II		1
2		/		1
3		GLB-25		1
4		WP120		1
5		G6		1
6		XL-250		1
7		Mini-ME		1
8		/		1
9		DPL-11A		1
10		CGC-350		1
11		ZP-10		2
12		BGB-5F		1
13		P100		1
14		15B		1
15		FZH(DLG)-10		1
16		/		1
17		TGL20M		1
18		DPB-80		1
19		/		1
20		E-50		1
21		350		1
22		MINI GLATT		1
23		/		1
24		Lyo-0.5		1
25		HY-6A		1
26		/		23
27	Hanson	/		1
28		RC12AD		1
29		RC8MD		1
30		708DS-850DS		2
31		8400 CCAS-6000		1
32		DISTEK2500		1
33	-	TU1810 APC		2

4	AR			10L
5				25L
6	95%			1250L
7				5L
8	1-			1L
9				50L
10				1L
11				0.5L
12				5kg
13				5kg
14				2.5kg
15				25kg
16				25kg
17				1L
18				1L

43				1kg
44				1kg
45				1kg
1-5				
1		<chem>C2H3N3</chem> -45.7 81.1 B1	LD ₅₀ 2730 mg/kg() 1250mg/kg LC ₅₀ 12663mg/m ³ 8 ()	
2		<chem>C3H6O</chem> -88 82.5	LD ₅₀ 5800 mg/kg()	
3		<chem>C2H6O</chem> -114.1 78.3	LD ₅₀ 7060 mg/kg() 7430 mg/kg() LC ₅₀ 37620 mg/m ³ 10 ()	
4	1-	<chem>C8H18O</chem> -16.7 196	LD ₅₀ 1790 mg/kg()) >3200 mg/kg()	
5		HCl -114.8 ,	/	
6		<chem>H2SO4</chem> 10.5 330	LD ₅₀ : 2140mg/kg() ; LC ₅₀ : 510 mg/m ³ 2h	
7		NaOH 318.4 1390	LD ₅₀ 500mg/kg ()	
8		0.79 -97.8 64.8	LD ₅₀ 5628 mg/kg() 15800 mg/kg() LC ₅₀ 83776mg/m ³ 4 ()	
9		<chem>HNO3</chem> -42 86	/	
10		<chem>C4H8O</chem> -108.5 65.4	LD ₅₀ :2816mg/kg() ; LC ₅₀ : 61740 mg/m ³ 3h	

11		KH_2PO_4	252.6	/
12		$\text{NaH}_2\text{PO} \cdot \text{H}_2\text{O}$		LD_{50} 8290mg/kg()

3

4-202

4

4

4

1

4-202

1-6

1-7

2

3

1-6

1-7

5

100

300

8h

6

170L/h

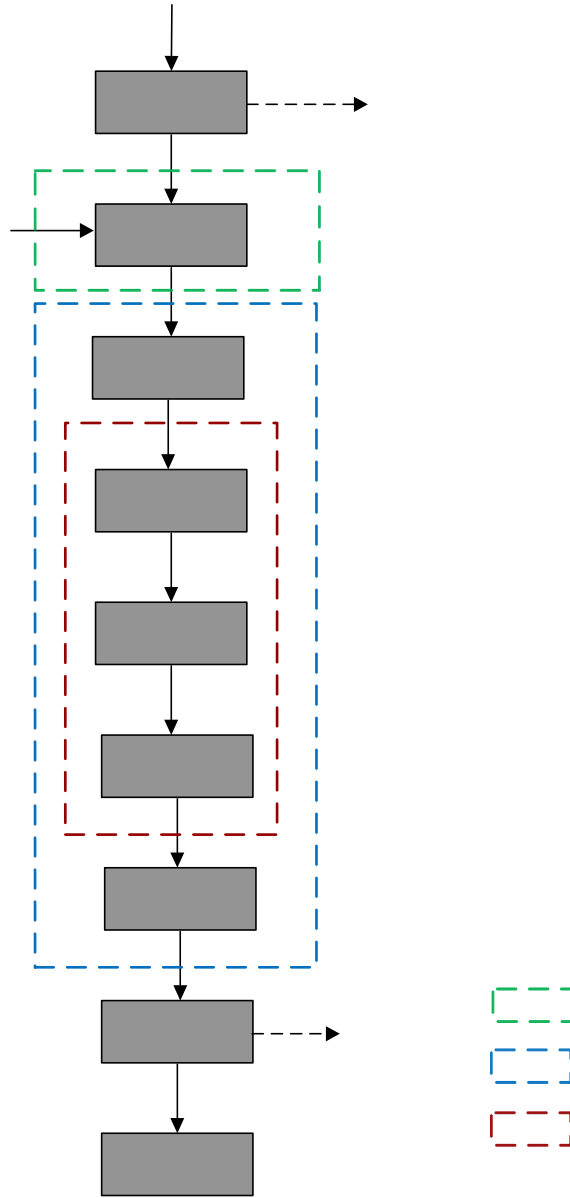
(GB18918-2002) A

1.4

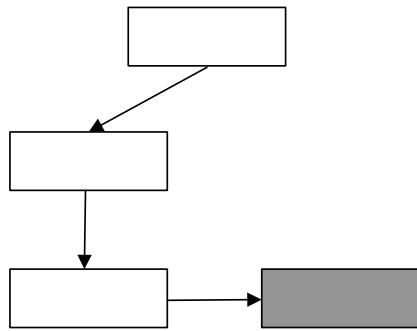
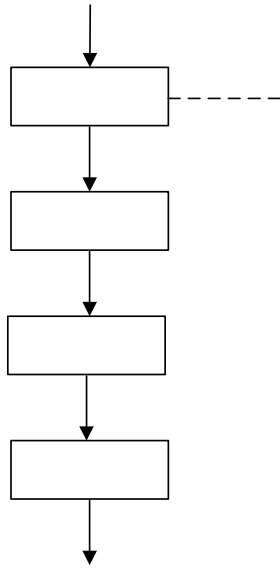
1	<p>GB16297-1996</p> <p>“ ”</p> <p>2-1</p> <p>2-1 GB16297-1996</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <tr> <td style="width: 25%;"></td> <td style="width: 25%; text-align: center;">(kg/h)</td> <td style="width: 25%;"></td> <td style="width: 25%;"></td> </tr> <tr> <td></td> <td style="text-align: center;">(m)</td> <td></td> <td style="text-align: center;">(mg/m³)</td> </tr> <tr> <td></td> <td style="text-align: center;">15</td> <td style="text-align: center;">3.5</td> <td style="text-align: center;">120</td> </tr> <tr> <td></td> <td style="text-align: center;">15</td> <td style="text-align: center;">10</td> <td style="text-align: center;">120</td> </tr> </table>		(kg/h)				(m)		(mg/m ³)		15	3.5	120		15	10	120																													
	(kg/h)																																													
	(m)		(mg/m ³)																																											
	15	3.5	120																																											
	15	10	120																																											
2	<p>(GB8978-1996)</p> <p>DB33/887-2013</p> <p>(GB18918-2002) A</p> <p>2-2</p> <p>2-2 mg/L(pH)</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 15%;"></th> <th style="width: 15%;"></th> <th style="width: 10%;">pH</th> <th style="width: 10%;">COD_{Cr}</th> <th style="width: 10%;">BOD₅</th> <th style="width: 10%;"></th> <th style="width: 10%;">SS</th> <th style="width: 10%;"></th> <th style="width: 10%;">(P)</th> </tr> </thead> <tbody> <tr> <td></td> <td style="text-align: center;">GB8978-1996</td> <td style="text-align: center;">6 9</td> <td style="text-align: center;">500</td> <td style="text-align: center;">300</td> <td style="text-align: center;">35</td> <td style="text-align: center;">400</td> <td style="text-align: center;">20</td> <td style="text-align: center;">8</td> </tr> <tr> <td></td> <td style="text-align: center;">GB18918-2002 A</td> <td style="text-align: center;">6 9</td> <td style="text-align: center;">50</td> <td style="text-align: center;">10</td> <td style="text-align: center;">5(8)</td> <td style="text-align: center;">10</td> <td style="text-align: center;">1</td> <td style="text-align: center;">0.5</td> </tr> <tr> <td colspan="8" style="text-align: right;">DB33/887-2013</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">>12</td> <td></td> <td></td> <td style="text-align: center;">12</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			pH	COD _{Cr}	BOD ₅		SS		(P)		GB8978-1996	6 9	500	300	35	400	20	8		GB18918-2002 A	6 9	50	10	5(8)	10	1	0.5	DB33/887-2013										>12			12				
		pH	COD _{Cr}	BOD ₅		SS		(P)																																						
	GB8978-1996	6 9	500	300	35	400	20	8																																						
	GB18918-2002 A	6 9	50	10	5(8)	10	1	0.5																																						
DB33/887-2013																																														
	>12			12																																										
3	<p>(GB12348-2008) 3</p> <p>65dB(A) 55dB(A)</p>																																													
4	<p>GB18597-2001</p> <p>GB18599-2001</p>																																													

3.1

3-1~3-2



3-1



3.2

- (1)
- (2)
- (3)
- (4)

3.2.1



	KI #\	t #a	KI #\	t #a	KI #\	t #a	KI #\	t #a
	0.0038	0.0023	0.00002	0.0001	0.0003	0.0002	0.0005	0.0003

3.2.2

1

100 300 100L/ •d 10t/d

3000t/a 0.85 8.5t/d(2550t/a)

CODcr CODcr 350mg/L

NH₃-N 35mg/L

2

1.0t/d

CODcr 300mg/L NH₃-N 25mg/L

SS 300mg/L 20mg/L

3

700t/a

30% 1633t/a COD_{Cr} 50mg/L

3-1

3-1

			CODcr				SS				
	T/d	T/a	mg/L	T/a	mg/L	T/a	mg/L	T/a	mg/L	T/a	
	8.50	2550	350	0.893	35	0.089	/	/	/	/	
	1.0	300	300	0.090	25	0.008	20	0.006	300	0.090	
	5.44	1633	50	0.117	/	/	/	/	/	/	
	14.94	4483	245.37	1.100	21.64	0.097	1.34	0.006	20.08	0.090	

(GB18918-2002) A

3.2.3

60~70dB(A)

(1)

(2)

(3)

3.2.4

1

0.03t/a

2

0.5%

90%

95%

0.002t/a

3

0.2t/a

0.1t

4

5t/a

5

0.015t/a

6

0.05t/a

7

0.01t/a

8

100

0.5kg/ d

15t/a

3-2

3-2

				(t/a)
1				0.03
2				0.002
3				5
4				0.015
5				0.05
6				0.2
7				0.01
8				15

-

3-3

			4.1
			4.2 L
			4.3n
			/

3-4

		/		t/a	
			HW49 900-041-49	0.03	
			HW49 900-047-49	5	
			HW49 900-999-49	0.015	
			HW49 900-041-49	0.05	
			HW49 900-999-49	0.002	
			HW49 900-041-49	0.2	
			/	0.01	
			/	15	
				5.297	/
				15.01	/

4

4.1

4-1

4-1

	HJ2025-2012			57	
	GB18597-2001				
	(1)			(GB12348-2008) 3	
	(2)				
	(3)				

4.2

4-2 " "

			0.0038kg/h 0.0023t/a	0.0005kg/h 0.0003t/a
			8.50t/d 2250t/a	/
		CODcr	350mg/L 0.893t/a	/
			35mg/L 0.089t/a	/
			1t/d 300t/a	/
		CODcr	300mg/L 0.090t/a	/
			25mg/L 0.008t/a	/
			20mg/L 0.006t/a	/
				/

		SS	300mg/L 0.090t/a	
--	--	----	------------------	--

5

5.1

4-202

5.2

5.2.1

pH

5.2.2

(GB18918-2002) A

5.2.3

60~70dB

GB12348-2008

3

(1)

(2)

(3)

5.2.4

5-1

5-1

		/		t/a	
			HW49 900-041-49	0.03	
			HW49 900-047-49	5	
			HW49 900-999-49	0.015	
			HW49 900-041-49	0.05	
			HW49 900-999-49	0.002	
			HW49 900-041-49	0.2	
			/	0.01	
			/	15	
				5.297	/
				15.01	/

57

HJ2025-2012

GB18597-2001

”

“

5.2.5

——
“V
IV

HJ610-2016

A

“V

164

”

5.2.6

“ ”

[2016]74

2012 10

“ ”

	VOCs	CODcr	NH ₃ -N
4483t/a	CODcr1.100t/a	0.097t/a	0.0003t/a
CODcr	0.224t/a	0.022t/a	
2-3			t/a

6

6.1

6.1.1

4-202

2683.35m²

3650.93

6.1.2

6-1 “ ”

			0.0038kg/h 0.0023t/a	0.0005kg/h 0.0003t/a
			8.50t/d 2250t/a	/
		CODcr	350mg/L 0.893t/a	/
			35mg/L 0.089t/a	/
			1t/d 300t/a	/
		CODcr	300mg/L 0.090t/a	/
			25mg/L 0.008t/a	/
			20mg/L 0.006t/a	/
		SS	300mg/L 0.090t/a	
			5.44/d 1633t/a	/
		CODcr	50mg/L 0.117t/a	/
			14.94t/d 4483t/a	14.94t/d 4483t/a
		CODcr	245.37mg/L 1.100t/a	245.37mg/L 1.100t/a 50mg/L 0.224t/a
			21.64mg/L 0.097t/a	21.64mg/L 0.097t/a 5mg/L 0.022t/a
			1.34mg/L 0.006t/a	1.34mg/L 0.006t/a 0.5mg/L 0.002t/a
		SS	20.08mg/L 0.090t/a	20.08mg/L 0.090t/a 10mg/L 0.045t/a
			0.03t/a	0t/a
			0.002t/a	0t/a
			5t/a	0t/a
			0.015t/a	0t/a
			0.05t/a	0t/a
			0.2t/a	0t/a
			0.01t/a	0t/a
			15t/a	0t/a

6-2

6-2

	HJ2025-2012			57
	GB18597-2001			
	(1)			
	(2)			
	(3)			(GB12348-2008) 3

6.1.3

3650.93

6-3

6-3

		()
		3
		5
		4
		3
		15
		0.41%

6.1.4

1

pH

2

CODcr

(GB8978-1996)

(DB33/887-2013)

(GB18918-2002)

A

3

“ ”

4

60~70dB

GB12348-2008

3

6.1.5

(1)

2015.11

0104-VI-0-1

(2)

1-1.2

(3)

(4)

CODcr

“ ”

[2016]74

2012 10

“ ”

VOCs

CODcr

NH₃-N

0.0003t/a

4483t/a

CODcr1.100t/a

0.097t/a

CODcr

0.224t/a

0.022t/a

6.1.7

(1)

(____)**3**

(2)

(2011)(2013)

(2013)

“

”

(3)

6-4

“ ”

	0104-VI-0-1

6.2

1

“ ”

2

3

4

[2015]4

2015

6.3

”

“

+

”