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	.....	<b>1</b>
<b>1</b>	.....	<b>4</b>
1.1	.....	4
1.2	.....	4
1.3	.....	7
1.4	.....	10
1.5	.....	16
1.6	.....	28
1.7	.....	30
<b>2</b>	.....	<b>33</b>
2.1	.....	33
2.2	.....	58
2.3	.....	95
<b>3</b>	.....	<b>96</b>
3.1	.....	96
3.2	.....	100
3.3	.....	107
3.4	.....	108
3.5"	" .....	117
<b>4</b>	.....	<b>118</b>
4.1	.....	118
4.2	.....	121
4.3	.....	125
4.4	.....	125
4.5	.....	131
4.6	.....	138
<b>5</b>	.....	<b>140</b>
5.1	.....	140

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5.2	.....	141
5.3	.....	143
5.4	.....	145
5.5	.....	148
5.6	.....	152
5.7	.....	153
5.8	.....	154
5.9	.....	158
<b>6</b>	.....	<b>169</b>
6.1	.....	169
6.2	.....	173
6.3	.....	176
6.4	.....	177
6.5	.....	177
6.6	.....	179
6.7	.....	180
<b>7</b>	.....	<b>182</b>
7.1	.....	182
7.2	.....	184
7.3	.....	184
7.4	.....	184
<b>8</b>	.....	<b>185</b>
8.1	.....	185
8.2	.....	186
8.3	.....	188
8.4	.....	189
<b>9</b>	.....	<b>191</b>
9.1	.....	191
9.2	.....	191
9.3	.....	192

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9.4	.....	193
9.5	.....	194
9.6	.....	195
9.7	.....	195
9.8	.....	195
9.9	.....	195

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

- 1
- 2
- 3

2011 183

2011.8.19

- 4

2017 117

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2017.9.30

5

2014-2030

2014 3

2014.9.17

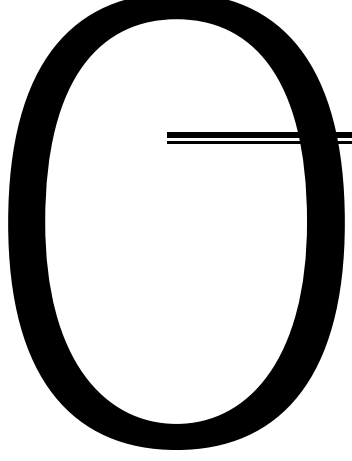
6

7

8

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2007

2011

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" 2011 8 19

2011 183 3 2017 9 30

2017 117 4

2020 10 23



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2021

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	" "
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3

4

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(3)			
	2012	103	
(4)	"	"	
	2017	4	
(5)		2014	9
(6)		2015	131
(7)		2016	167
(8)		2017	12
(9)		2018-2020	2018 87
(10)		2018-2020	2018
84			
(11)		2018-2020	2018
86			
(12)			
	2019	179	
(13)			
	2018	47	

#### 1.2.4

(1)	HJ2.1-2016
(2)	HJ2.2-2018
(3)	HJ2.3-2018
(4)	HJ610-2016
(5)	HJ2.4-2009
(6)	HJ19-2011
(7)	HJ169-2018
(8)	HJ964-2018
(9)	GB18218-2018
(10)	HJ884-2018

- (11) HJ2000-2010
- (12) HJ2015-2012
- (13) GB/T13201-1991
- (14) HJ2026-2013
- (15) 2017 43

**1.2.5**

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

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			/	/	/	SS COD
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1.3-2

1.3.2

1.3-3

1.3-3

	SO <sub>2</sub> NO <sub>2</sub> CO O <sub>3</sub> PM <sub>10</sub> PM <sub>2.5</sub> TVOC	PM <sub>10</sub> PM <sub>2.5</sub> VOCs
	pH DO COD BOD <sub>5</sub> NH <sub>3</sub> -N	/
	K <sup>+</sup> Na <sup>+</sup> Ca <sup>2+</sup> Mg <sup>2+</sup> CO <sub>3</sub> <sup>2-</sup> HCO <sub>3</sub> <sup>-</sup> Cl <sup>-</sup> SO <sub>4</sub> <sup>2-</sup> pH ( )	COD NH <sub>3</sub> -N
	pH 1,1- 1,2- 1,1- -1,2- -1,2- 1,2- 1,1,1,2- 1,1,2,2- 1,1,1- 1,1,2- 1,2- 1,2,3- 1,4- + 2- [a] [a] [b] [k] [a,h] [1,2,3-cd] 47	
	A	A
	/	

1.4

1.4.1

1

2018 48

GB3095-2012

2

2014

GB3838-2002

3

2018 48

3 4a

4

1.4.2

1

GB3095-2012

TVOC

HJ2.2-2018

D

P244

1.4-1

1.4-1

$\mu\text{g}/\text{m}^3$

		(GB3095-2012)		
		1	24	
1	SO <sub>2</sub>	500	150	60
2	NO <sub>2</sub>	200	80	40
3	TSP	-	300	200
4	PM <sub>10</sub>	-	150	70
5	PM <sub>2.5</sub>	-	75	35
6	CO	10mg/m <sup>3</sup>	4mg/m <sup>3</sup>	-
7	O <sub>3</sub>	200	160 8	-
8		200	-	HJ2.2-2018 D
9		200	-	
10	TVOC	-	600 8	
11		-	10	
12		-	2.0 mg/m <sup>3</sup>	P244

2

			GB3838-2002		1.4-2
	1.4-2			mg/L	pH
1	pH	6~9	12		0.05
2		5	13		0.0001
3		6	14		0.005
4					

4

GB3096-2008 3

GB3096-2008 4a

GB3096-2008 2

1.4-4	GB3096-2008	dB(A)
2	60	50
3	65	55
4a	70	55

5

GB36600-2018

1.4-5

1.4-5	mg/kg
1	60
2	65
3	5.7
4	18000
5	800
6	38
7	900
8	2.8
9	0.9
10	37
11	1,1-
12	1,2-
13	1,1-
14	-1,2-
15	-1,2-
16	616
17	1,2-
18	1,1,1,2-
19	1,1,2,2-
20	53
21	1,1,1-
22	1,1,2-
23	2.8

24	1,2,3-	0.5	5
25		0.43	4.3
26		4	40
27		270	1000
28	1,2-	560	560
29	1,4-	20	200
30		28	280
31		1290	1290
32		1200	1200
33	+	570	570
34		640	640
35		76	760
36		260	663
37	2-	2256	4500
38	[a]	15	151
39	[a]	1.5	15
40	[b]	15	151
41	[k]	151	1500
42		1293	12900
43	[a,h]	1.5	15
44	[1,2,3-cd]	15	151
45		70	700
A			3.6

## 1.4.3

1

VOCs

GB31572-2015

VOCs

GB37822-2019

GB16297-1996 2

1.4-6

## 1.4-6

	mg/m <sup>3</sup>	kg/h		mg/m <sup>3</sup>	
		m			
	120	7	0.8	1.0	GB16297-1996
		15	3.5		
		25	14.45		

	120	7	2	4.0	
		15	10		
		25	35		
	12	7	0.1	0.4	
		15	0.5		
		25	1.9		
	40	7	0.7	2.4	
		15	3.1		
		25	11.6		
	70	7	0.2	1.2	
		15	1.0		
		25	3.8		
	550	25	9.65	0.40	
	240	25	2.85	0.12	
	100	/	/	/	GB31572-2015

**1.4-7 VOCs mg/m<sup>3</sup>**

NMHC	10	1h	
	30		

2

GB8978-1996

**1.4-8 GB8978-1996 mg/L**

1	pH	6~9	8		1.0	-
2		-	9		-	-
3	SS	400	10		-	20
4	COD <sub>Cr</sub>	500	11		-	0.5
5	BOD <sub>5</sub>	300	12		-	0.5
6		100	13		-	1.0
7		5.0				

3

(GB12348-2008) 3 4a 1.4-9

**1.4-9 dB A**

	65	55	3
	70	55	4a

4

GB18599-2001

GB18597-2001

1.5

1.5.1

1.5.1.1

1

HJ2.2-2018

A

AERSCREEN

HJ2.2-2018

P<sub>i</sub>

$$P_i = \frac{C_i}{C_{oi}} \times 100\%$$

P<sub>i</sub> — i %

C<sub>i</sub> — i 1h μg/m<sup>3</sup>

C<sub>oi</sub> — i μg/m<sup>3</sup> GB3095 1h

P<sub>i</sub>( i ) i

10%

D<sub>10%</sub>

2 AERSCREEN

1.5-1

1.5-2

1.5-3

1.5-4 VOCs

TVOC

1.5.1

		μg/m <sup>3</sup>	
PM <sub>10</sub>	1	450	GB3095-2012
PM <sub>2.5</sub>	1	225	
	1	200	

TVOC	VOCs	1	1200	HJ2.2-2018	D
		1h	2000		P244
				8	2

## 1.5-2

/	/	
		390.47
	/	39.2
	/	-2.5
		79%
	/m	90m
	/km	/
	/°	/

## 1.5-3

		X (m)	Y (m)	/m	(m)	(m)	(m/s)		h	(kg/h)				
										PM <sub>10</sub>	PM <sub>2.5</sub>		TVOC	
G1#		-31	-15	102	15	0.25	12.35	25	2400	0.0138	0.0069	/	/	/
G2#		27	-10	104	15	0.7	11.82	25	2400	/	/	/	0.27	/

## 1.5-4

		X (m)	Y (m)	(m)	(m)	(m)	/°	m	h		kg/h				
											PM <sub>10</sub>	PM <sub>2.5</sub>		TVOC	
1		-41	-10	102	61	53	90	10	2400		0.0523	0.0262	/	/	/
2		22	-10	104	70	53	90	10	2400		0.15	0.075	/	0.15	
3		-3	17	103	131	54	90	10	2400		0.0263	0.0132	0.1	0.6373	0.102

## 3 AERSCREEN

## 1.5-5~1.5-6

## 1.5-5 AERSCREEN

PM<sub>10</sub> PM<sub>2.5</sub>

		PM <sub>10</sub>				PM <sub>2.5</sub>							
		/μg/m <sup>3</sup>	/m	/%	D10% m	/μg/m <sup>3</sup>	/m	/%	D10% m	/μg/m <sup>3</sup>	/m	/%	D10% m
	G1#	1.0537	93	0.23	0	0.52685	93	0.23	0	/	/	/	/
	G2#	/	/	/	/	/	/	/	/	/	/	/	/
		10.605	40	2.36	0	5.312637	40	2.36	0	/	/	/	/
		28.818	43	6.40	0	14.409	43	6.40	0	/	/	/	/
		3.9536	67	0.88	0	1.984316	67	0.88	0	15.0327	67	7.51	0
		28.818	/	6.40	/	14.409	/	6.40	/	15.0327	/	7.51	/

## 1.5-6 AERSCREEN

		TVOC							
		/μg/m <sup>3</sup>	/m	/%	D10 % m	/μg/m <sup>3</sup>	/m	/%	D10% m
	G1#	/	/	/	/	/	/	/	/
	G2#	20.618	93	1.72	0	/	/	/	/
		/	/	/	/	/	/	/	/
		28.818	43	2.4	0	/	/	/	/
		95.8034	67	7.98	0	15.33335	67	0.77	0
		95.8034	/	7.98	/	15.33335	/	0.77	/

AERSCREEN筛选计算与评价等级-改装车技术改造

筛选方案名称: 改装车技术改造

筛选方案定义 筛选结果

查看选项

筛选结果: 已考虑地形高程。未考虑建筑下洗。AERSCREEN运行了 5 次(耗时0:3:55)。按【刷新结果】重新计算!




1.5-1

1h

AERSCREEN筛选计算与评价等级-改装车技术改造

筛选方案名称: 改装车技术改造

筛选方案定义 筛选结果



1.5-2

1h

4

1.5-7

	$P_{\max} < 10\%$
	$1\% P_{\max} < 10\%$
	$P_{\max} < 1\%$

1.5-5~1.5-6

$P_{\max}$

7.98% TVOC

1.5.1.2

GB8978-1996

HJ2.3-2018

B

1.5-6

		Q/ $m^3/d$	W/
		Q 20000	W 600000
A		Q 200	W 6000
B			

1.5.1.3

HJ610-2016

A

" N

-116

-

"

II

1.5-7

1.5-8

1.5-7


a

									—
								—	—
“ ”									

1.5.1.6

1

P

HJ169-2018

HJ169-2018 B

Q

M HJ169-2018 C

P

1

Q

HJ169-2018 C

Q

Q

$$Q = \frac{q_1}{1} + \frac{q_2}{Q_2} + \dots$$

q<sub>1</sub> q<sub>2</sub> ... q<sub>n</sub>

t

Q<sub>1</sub> Q<sub>2</sub> ... Q<sub>n</sub>

t

Q<1

I

Q 1

Q

1 1 Q<10

2

10 Q<100

3

Q 100

Q

1.5-11

1.5-11

Q

					t	Q
			t/a	t		
1		20%	0.3t	0.06	10	0.0082
		20% 20%	0.06t	0.012		
		20%	0.05t	0.01		
2		1%	0.01t	0.0001	10	0.00001
3		0.5%	0.01t	0.03755	10	0.003755
		25%	0.15t			
4	2-	0.5%	0.01t	0.00005	7.5	0.000007
		B 43%	B 3t	1.29	0.5	2.67

5	MDI	105	0.15t	0.03		
		20%				
		103	0.15t	0.015		
		10%				
6	92#	/	/	0.05t	2500	0.00005
		/	/	/	/	

10 Q 100	P1	P2	P3	P4
1 Q 10	P2	P3	P4	P4

2 E

1

E1

E2

E3

1.5-14

1.5-14

E1	5km 5 1000		500m 200m 200		
E2	5km 1 1000	5	500m 200m 100 200	500	5km 5 E1
E3	5km 1	500m 200m		500 100	

2

E1

E2

E3

1.5-15 1.5-16

1.5-15

F1		II	
F2	24	III	
F3	24		F2

1.5-16

S1	10km	S3
----	------	----

S2	10km	
S3	10km	1 2

1.5-17

**1.5-17**

	F1	F2	F3
S1	E1	E1	E2
S2	E1	E2	E3
S3	E1	E2	E3

1.5-17

E2

3

E1

E2

E3

1.5-18 1.8-19

G

D

**1.5-18**

G1		G3
G2	a	
G3		
a"	"	

1.5-19

D3	Mb 1.0m K 1.0×10 <sup>-6</sup> cm/s	D3
D2	0.5 Mb 1.0m K 1.0×10 <sup>-6</sup> cm/s Mb 1.0m 1.0×10 <sup>-6</sup> cm/s K 1.0×10 <sup>-4</sup> cm/s	
D1	“D2” “D3”	
Mb K		

1.5-20

1.5-20

	G1	G2	G3
D1	E1	E1	E2
D2	E1	E2	E3
D3	E2	E3	E3

1.5-20

E3

E1

3

P P4

E1

1.5-21

III

1.5-21

E	P			
	P1	P2	P3	P4
E1	IV <sup>+</sup>	IV	III	III
E2	IV	III	III	II
E3	III	III	II	I
IV <sup>+</sup>				

4

III

1.5-22

1.5-22

	IV IV <sup>+</sup>	III	II	I
				a
a				
A				

1.5.1.7

HJ19-2011

14017m<sup>2</sup>

0.014km<sup>2</sup><2km<sup>2</sup>

## 1.5-23

	20km <sup>2</sup> 100km	2~20km <sup>2</sup> 50~100km	2km <sup>2</sup> 50km

## 1.5-24

## 1.5-24

		HJ2.2-2018 1% Pmax 10%	P <sub>max</sub> =7.98% TVOC
	B	HJ 2.3-2018	
			II
		HJ2.4-2009 GB3096 3 4	3 4 3dB
		HJ964-2018	I
		HJ19-2011 2km <sup>2</sup> 50km	0.014km <sup>2</sup> <2km <sup>2</sup>
		HJ169-2018	P4 E1 III

## 1.5.2

1

P<sub>max</sub>=7.98%

5.0km× 5.0km

3

2

200m      2000m

3

6km<sup>2</sup>

4

200m

5

100m

6

0.2km

7

5km

**1.6**

1.6-1      3

**1.6-1**

		/m							/m
		X	Y						
1		-989	128		234		GB3095-2 012		870
2		-1318	388		27				1270
3		-2512	1262		131				2710
4		-1149	993		23				1475
5		-1485	1505		144				2055
6		-691	1508		131				1605
7		-405	1824		32				1900
8		-741	2040		185				2315
9		63	614		3760				520
10		-157	2264		230				2405
11		254	2152		77				2315
12		610	1198		162				1245
13		898	1170		8750				1340

14		978	1843		522			2070
15		1846	582		6030			1850
16		1930	734		620			2005
17		589	177		7235			405
18		297	-928		720			930
19		913	-928		1080			1215
20		-96	-1990		585			2175
21		549	-2002		650			2125
22		112	-640		1200			430
23		-668	-600		95			1250
24		-796	-1653		190			1860
25		2057	-243		1393			1990
26		2039	-380		2286			1984
27		2039	-596		5050			2042
28		2191	-600		51			2215
29		1667	-696		525			1755
30		1350	-844		5787			1525
31		2051	-836		450			2150
32		2359	-1032		913			2545
33		2371	-1229		1878			2640
34		2223	-1437		1530			2618
35		2303	-1685		3764			2875
36		1719	-1982		8915			2530
37		2231	-2042		11250			2895
38		2091	-2202		1769			3105

		GB/T148482017
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1.7

1.7.1

2014-2030

1

2

	20.24		19.95	
		1995.44		908.35
45.52%	(		)	374.74
	18.78%		231.67	
11.61%	(		)	143.07
	7.29%		117.76	5.90%
			589.24	29.53%
	"	"		
1."	"			

:

2." "

3." "

;

:

) ( ) (

**1.7.2**

**2014-2030**

2014-2030

1.7-1



2

2.1

2.1.1

1

2

3

255120m<sup>2</sup>

4

126858

3340

2.63%

5

1223 /

6

2011 8

2011 183 2017 9 30

2017 117 2019 9

91450200794328218E001Q

7

2020 517

Ä

## 2.1.1.1

2.1-1

2.1-1

/

1			66	
			88	
			70	
			35	
2			85	/
			26	
			60	
			82	
			16	
			10	
3			60	
			75	
			60	
4			115	/
			120	
			65	
			80	
			110	
			1223	/

## 2.1.1.2

1468

2.1-2

2.1-2

			d/a	h/d
1		132	265	12
2		1216	265	16
3		120	265	12
4		1468	/	/

2.1.1.3

2.1-3

2.1-3

		224			
	2				
		19	1	8	10
		6100m <sup>2</sup>			
			7		0.8Mpa
				110kVA 10kV	
		1			3m <sup>3</sup> /h
		+	10m <sup>3</sup> /h	”	13m <sup>3</sup> /h
				1	24h/d “
				1	
					1
		1			
			RTO	1 25m	Y1#



2

1

1

10KV

3

KD

110KV

2-2~2-6

2.1.2

2.1.2.1

70

154

2

1

1

24h

2.1-1



2.1-1

2

pH COD SS  
pH COD SS  
VOCs  
VOCs  
RTO 1 25m Y1#

1

VOCs

+

1 15m

Y2#

pH COD §

2.1.4.2

2.1.4.3

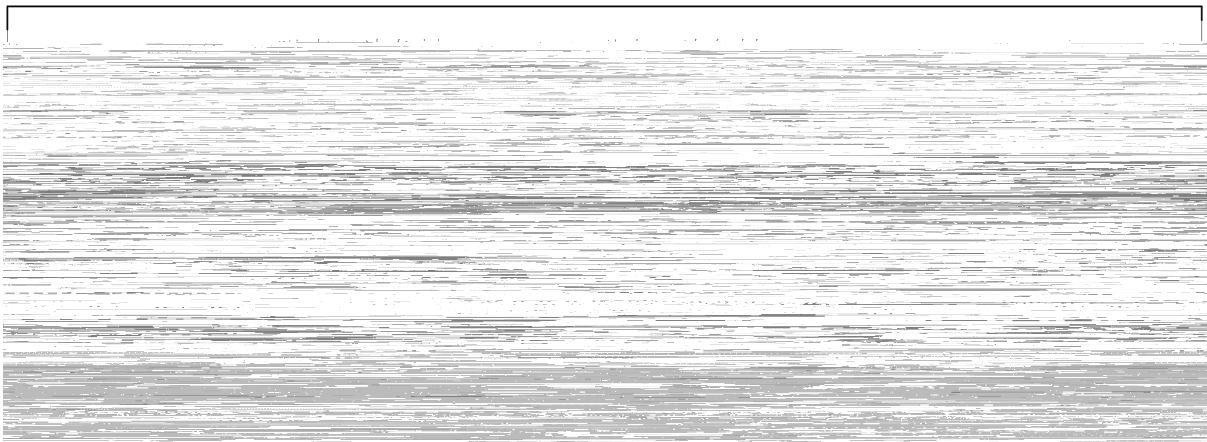
1

8

10

19

2.1-3



2.1-3

2.1.4.4

5

8

HF HCl

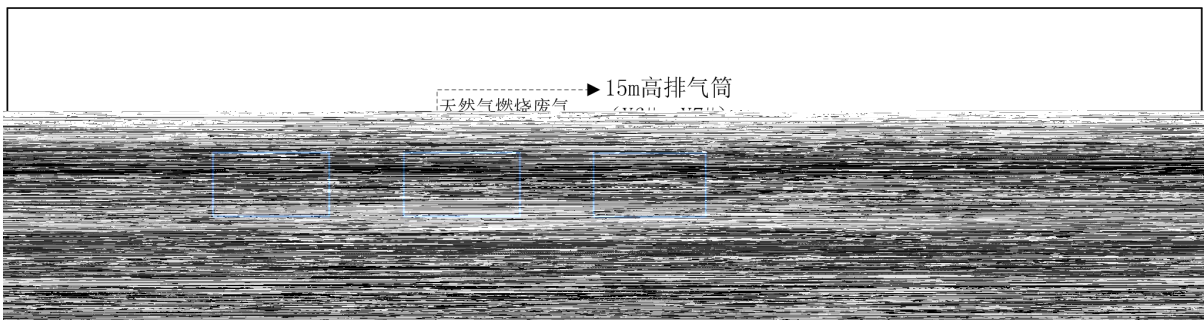
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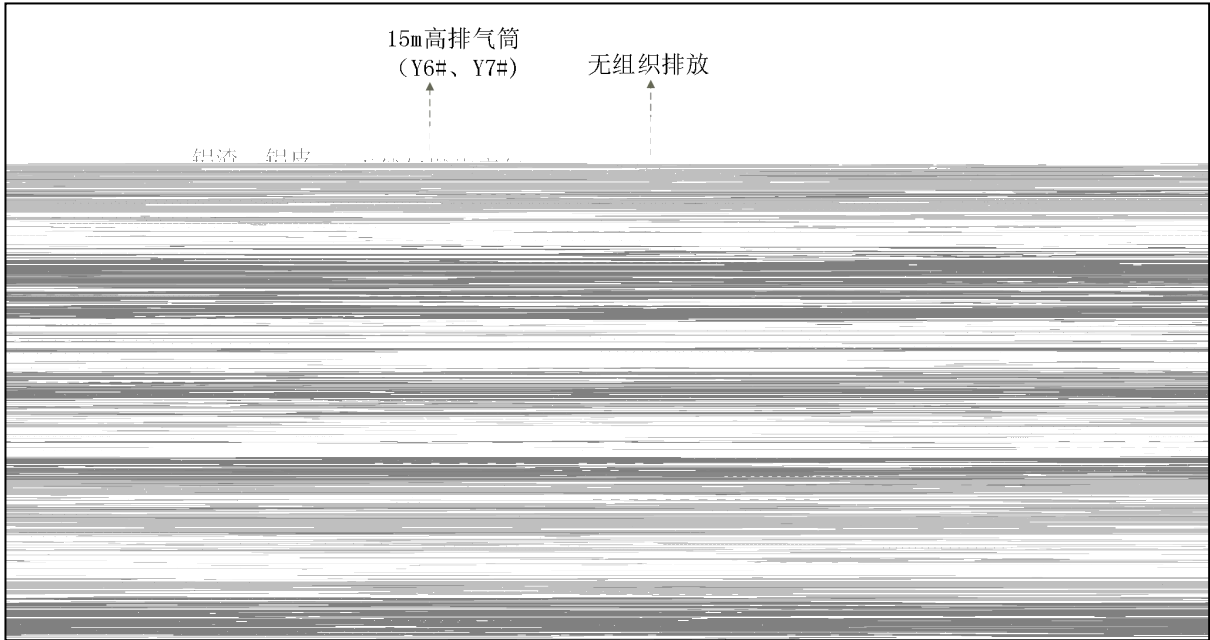
SO<sub>2</sub> NO<sub>x</sub> 2  
Y6# Y7# 500 1 15m  
180

pH COD SS

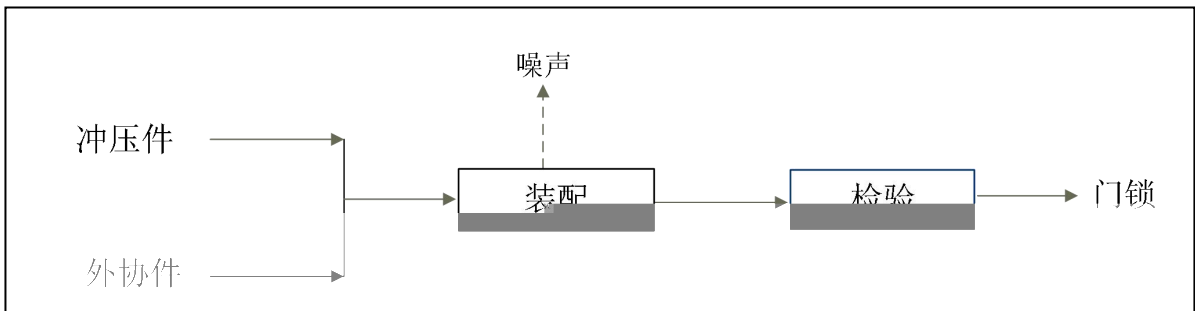
2.1-4~6



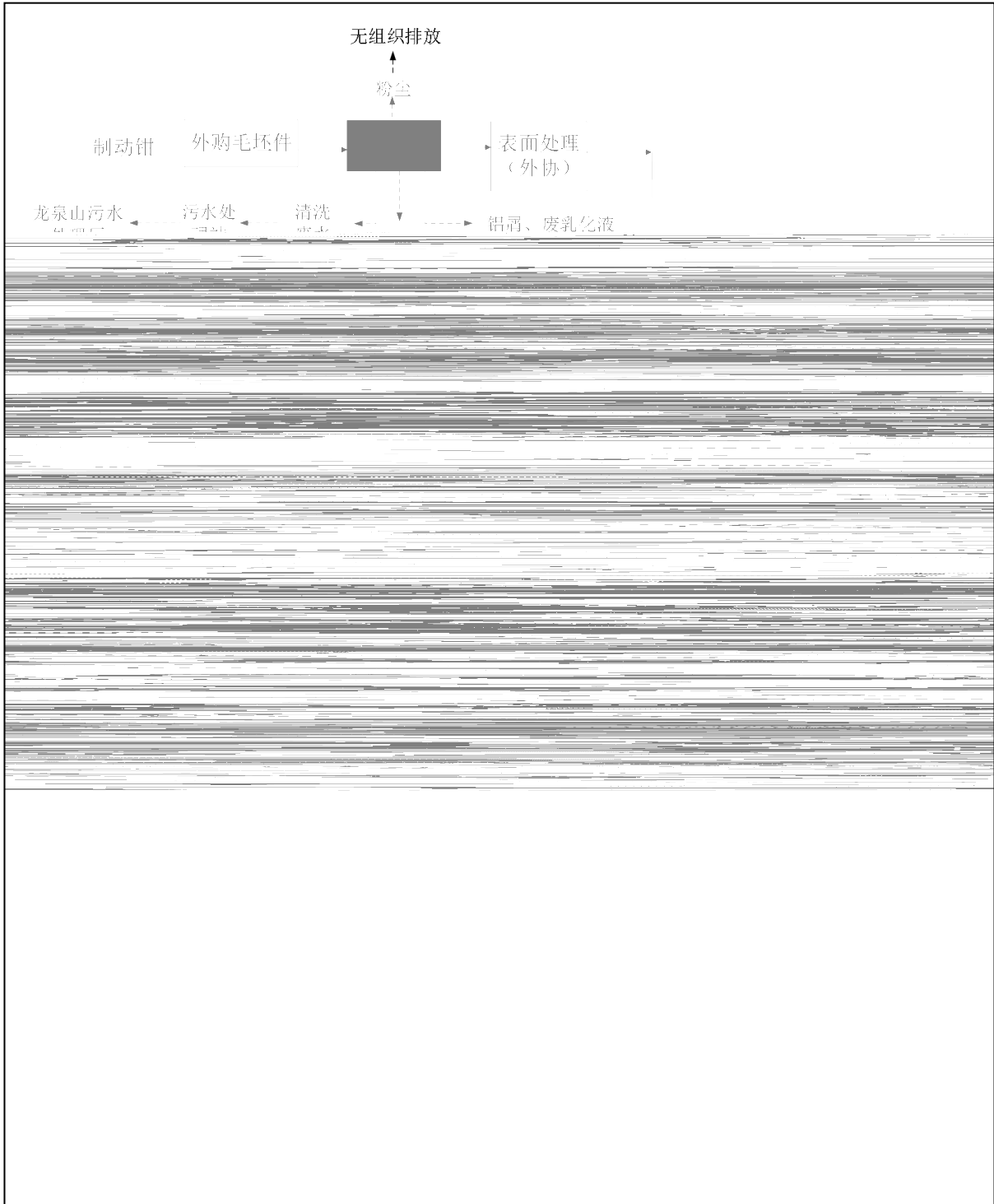
2.1-4



2.1-5



2.1-6



2.1-7

2.1.3

2.1-4

2.1-4

1

3			m <sup>3</sup> /a	63865	
			m <sup>3</sup> /a	23850	
			m <sup>3</sup> /a	15370	
			m <sup>3</sup> /a	23341.2	

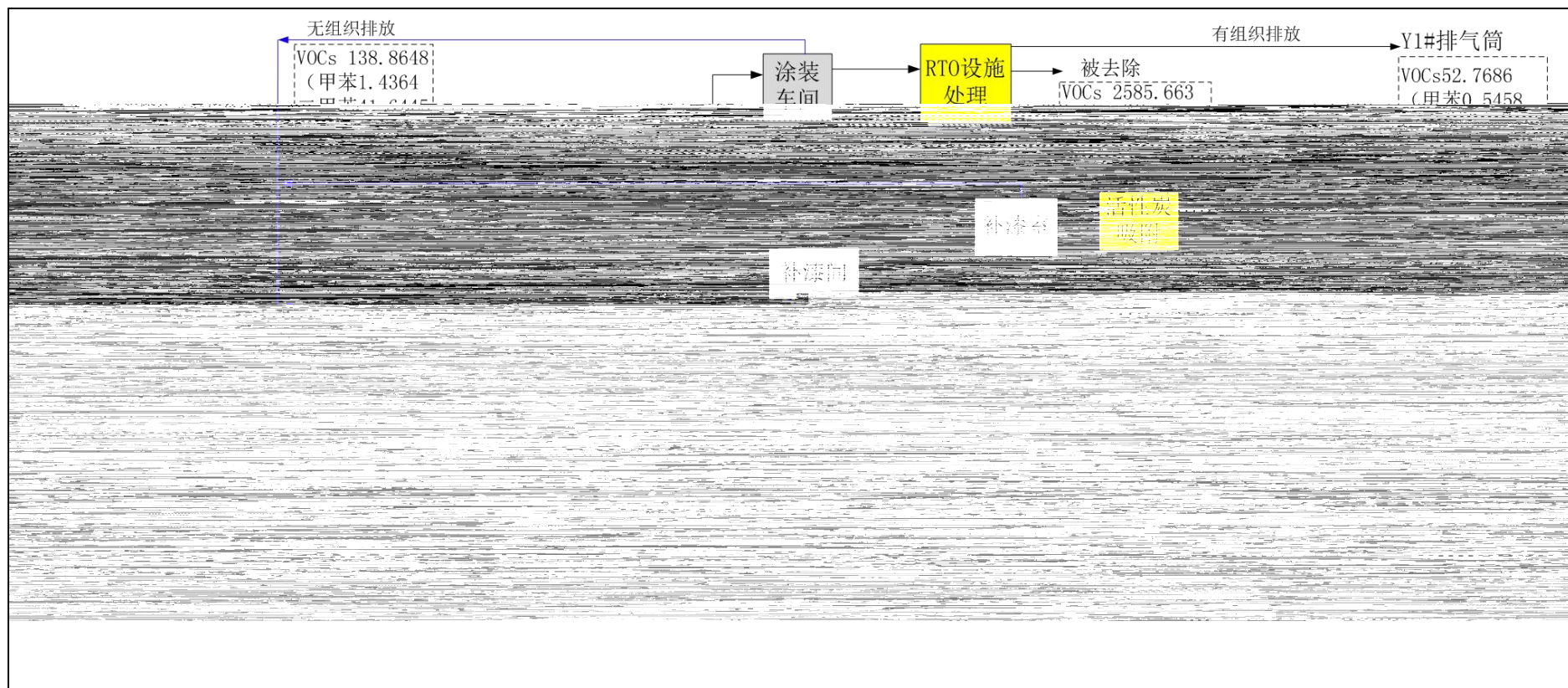
2.1-5

2.1-5

VOCs

1





2.1-8

t/a

## 2.1.5

## 2.1.5.1

## 2.1-9

## 2.1-9

1	30T	1	NCF-30 SXF-30	30T	1
2	50T		50T	50/10T×22.5m	1
3	63		YWH35-63	63	1
4				/	1
5			P-200A	/	1
6			Triton308	/	4
7				T308	1
8			GBNL <sub>3</sub> -250t/h	/	1
9			/	/	1
10			C-2.5	2.5m <sup>3</sup>	1
11	TIG		YE-150TMHGE	150	1
12			GGD3-07C	1000A	5
13			GGJ-02A	160KVAK	1
14			GGJ-02A	160KVAK	3
15			GGD3-03C	2000A	2
16			3T	16.5m	3
17			CD1-0.5/6	0.5T×6m	1
18			GD50/10T*22.5	/	1
19			S11-M-1250/10	1250KVA	1
20			/	/	1
21			TL-1SM	/	1
22			SIC-20A	20HP	1
23			SM6-QM	160A	2
24			SM6-GBC-B	12KW 630A	1
25			SM6-IM	/	1
26			SIC-20A	/	8
27			MN	20° 60° 85°	1
28			/	/	1
29			BX1-300	/	1
30			/	/	2
31			2V-0.6/7-C	/	3
32			SMC-110	/	1
33			LG25	/	1
34			SGT-U500	/	1
35			LU160-8	28.2m <sup>3</sup>	1
36			TF-10 0-10mm	/	1
37			MI130	/	1
38			CZ6132 320*750	/	1
39			PPC.FX-1	/	1
40			HAL-800G	/	1

41		SAL-3.5HP-P	/	2	
42		/	/	1	
43		M30	/	1	
44		DPA-35T	760×1640	1	
45		BX1S-2X160	/	1	
46		LG-25	/	2	
47		/	/	1	
48		SGT-U800	/	2	
49		SP-360	/	2	
50		SL-1500	/	2	
51		XS-ZY-500	/	2	
52		/	/	1	
53		X61W	/	1	
54		Z32K	/	1	
55		DF-LD800PLC	1000×700×200	1	
56			70KN	1	
57		/	/	1	
58		3KW	/	1	
59		/	/	3	
60		AX-320	/	1	
61		CJ80NC/150G	/	3	
62		/	/	2	
63		/	3300T	1	
64		/	2800T	1	
65		/	/	2	
		/	/	100	
1	30T	1	NCF-30 SXF-30	30T	1
2	50T		50T	50/10T×22.5m	1
3	63		YWH35-63	63	1
4				/	1
5			P-200A	/	1
6			Triton308	/	4
7				T308	1
8			GBNL <sub>3</sub> -250t/h	/	1
9			/	/	1
10			C-2.5	2.5m <sup>3</sup>	1
11	TIG		YE-150TMHGE	150	1
12			GGD3-07C	1000A	5
13			GGJ-02A	160KVAK	1
14			GGJ-02A	160KVAK	3
15			GGD3-03C	2000A	2
16			3T	16.5m	3
17			CD1-0.5/6	0.5T×6m	1
18			GD50/10T*22.5	/	1

19		S11-M-1250/10	1250KVA	1
20		/	/	1
21		TL-1SM	/	1
22		SIC-20A	20HP	1
23		SM6-QM	160A	2
24		SM6-GBC-B	12KW 630A	1
25		SM6-IM	/	1
26		SIC-20A	/	8
27		MN	20° 60° 85°	1
28		/	/	1
29		BX1-300	/	1
30		/	/	2
31		2V-0.6/7-C	/	3
32		SMC-110	/	1
33		LG25	/	1
34		SGT-U500	/	1
35		LU160-8	28.2m <sup>3</sup>	1
36		TT-10 0-10mm	/	1
37		MI130	/	1
38		KP-500	/	1
39		CZ6132 320*750	/	1
40		PPC.FX-1	/	1
41		HAL-800G	/	1
42		SAL-3.5HP-P	/	2
43		/	/	1
44		M30	/	1
45		DPA-35T	760×1640	1
46		BX1S-2X160	/	1
47		LG-25	/	7
48		/	/	1
49		SGT-U800	/	1
50		SP-360	/	3
51		SL-1500	/	1
52		CJ-750M3BBC	2970 /104.9	3
53		XS-ZY-500	/	3
54		/	/	1
55		X61W	/	1
56		Z32K	/	1
57		DF-LD800PLC	1000×700×200	1
58			70KN	1
59		/	/	1
60		3KW	/	1
61		/	/	3
62		AX-320	/	1
63		CJ80NC/150G	/	3

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64		/	/	2
65		/	3200T	1
66		/	2800T	1
67		/	2000T	2
68		/	1200T	2
69		/	/	2
		/	/	130

**2.1.5.2**

29		QD16/3.2	16T	2
30		RSN-2500	/	1
31		MM-601A-00-01	MA-522-00-01	1
32		SJL-1000KVA	1000KVA	2
33		CD-99	2~10mm	1
34		YD-355KEV	/	13
35		CD	0.5T/6m	11
36		/	1000A	2
37			/	2
38		GQ2563	400	1
39		G72	220	1
40	( )	DN200 850KG	/	4
41		MM-315AC-00-02	1KA~49.9KA	1
42		Q11-6.3*2000	/	2
43		SJY-9	1 *9	1
44		WS-C2950G-24-EI	16MB SDRAM 8MB / / Mbps 10/100/1000	1
45		PGL1-030	2500A	1
46		BX1-200F-3	/	2
47		DYS—	4400×1200	5
48	CO <sub>2</sub> /MAG	YD-200KR1VTA	367×675×747	55
49		MM-601-00-01	0.2kg~950kg	1
50		LUC-40 ×20	40L/min	1
51		JH(20)	/	1
52		DYS	/	5
53		4L-20/8	20	4
54		ELOTOP1702	3-20mm	1
55		XA5032	/	1
56		Z5125A	/	1
57		/	/	1
58		LU250-8.5	43m <sup>3</sup> /min	1
59		JLR-2600	2600J	2
60	25T	KPD25-1	25T	1
61		M7130G(300*1000 )	/	1
62		CA6140	/	2
63			RRD57-11	2
64		QD 22.5M	10T	1
65		Y90L-2	/	1
66	3150KVA	S11M-3150/10	3150KVA	1
67			/	1
68			/	1
69		Z512-2	12.7	6
70		CWY-1000VA		1
71	PS	/	/	1

72		DN3-160KVA	/	13
73		DN3-160	/	2
74		/	/	3
75		DN3-160	/	152
76		/	/	1
77		Z3040 10×1600 (75114)	/	1
78		GBYF3.0 3T	/	1
79		HD-800	8000KN	4
80		DN3-200	200KVA	93
81		SJY0.5	16	3
82		S11	2000KVA	1
83		Z525	/	1
84		NFVN001	200KVA	1
85		Z512B 20	/	1
86	( )	WDN-200	/	1
87		SA-754SP	75KVA	1
88		DN2-200	/	6
89		/	2000T-1600T-800T-800T	2
90		/	1600T-1000T-800T-630T	2
91		400	/	1
92			/	1
				520

## 2.1.5.4

## 2.1-11

## 2.1-11

1	A		1
2	A		1
3	B		1
4	A		1
5	B	/	1
6	A		1
7	B	/	1
8	A	/	1
9	B		1
10	B		1
11	B		1
12	C		1
13	D		1
14	E		1
15	C		1
16	A	/	1

17	A		
		DL-20	8
		X62	14
		MV80	2
		VB610A	8
18	A		
		LG7120KT/2.3/2.1	1
		A2J-PK1057	1
		VM-32SA	2
19	B		
		LG7120KT/2.3/2.1	1
		A2J-PK1057G	1
		VM-32SA	2
20	C		
		LG7120KT/2.3/2.1	1
		A2J-PK1057G	1
		VM-32SA	2
21	A		
		A2J-PK664	1
		VM-40SA	2
			1
		A2J-PK652	1
		RFMV60	2
22	B		
		A2J-PK1057	1
		VM-40SA	2
		VM-40SA	2
		FTC-30	2
23	C		
		A2J-PK1057	1
		VM-40SA	2
		VM-40SA	2
		FTC-30	2
24	A		
		FTC-30	3
		FTC-30	3
		N-094	1
		VM-40SA	2
		BDI400	1
		LBJ08074	1
25	A		
		DL-20	1
			2
		a-T14iDe	1
		HS-H236	1
		CM-2SNC+2	1
	NC	CM-NC02	1
26	B		

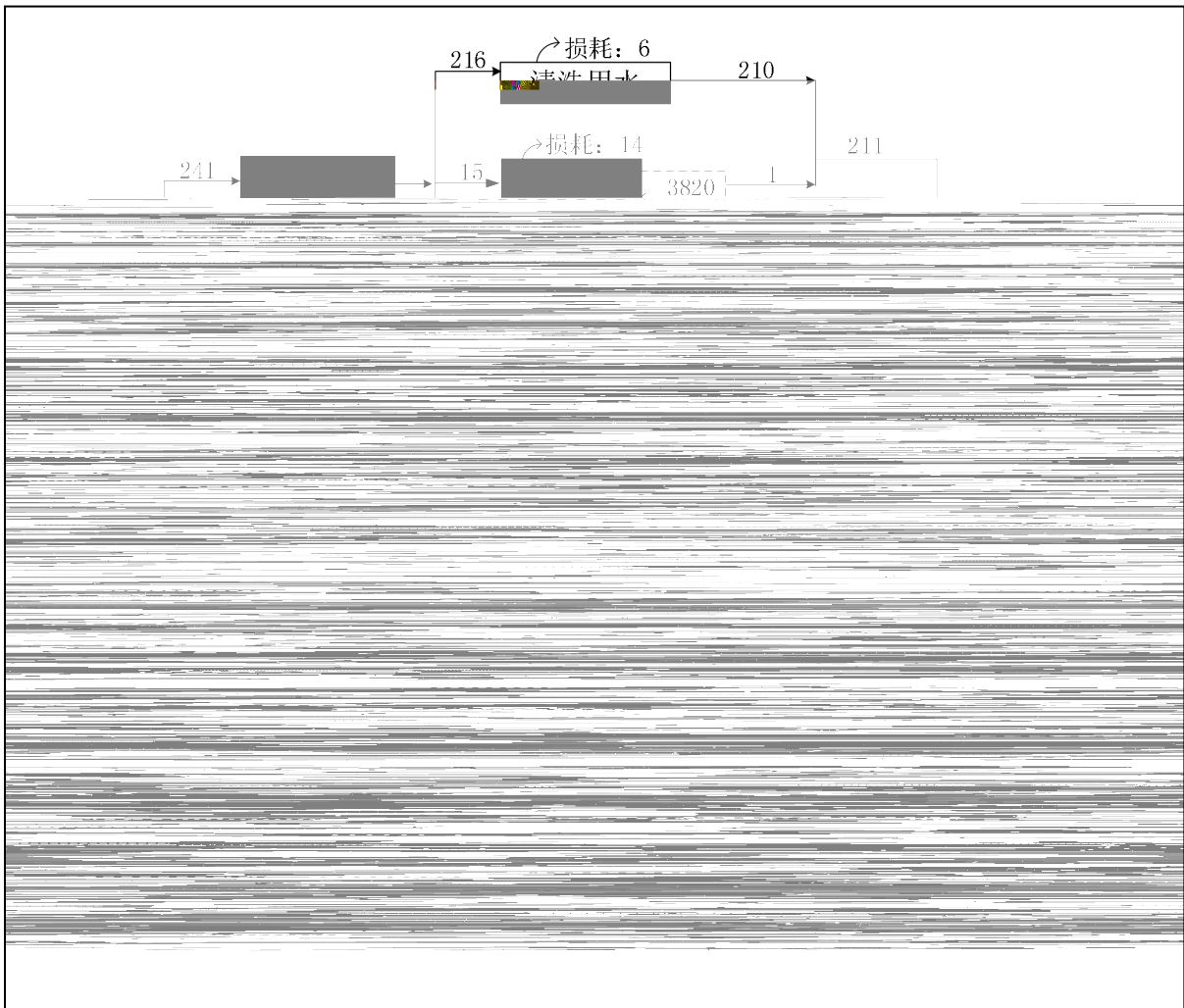
	CNC	JCL-60SA	2
		DL-20	1
		—T14iFe	1
		VM-40SA	3
		CM-2SNC+2	1
	NC	CM-NC02	1
	C		
27		JCL-60SA	3
		—T14iFe	1
		—T14iFe	4
		CM-2SNC+2	1
	NC	CM-NC02	1
	A ( )		
28		HS-G84A	1
		H237A	1
		H237	1
		HS-H238	1
	B ( )		
29		VM-40SA	2
		H237A	1
		HS-H238A	1
	C ( )		
30		D2H-E1+2	1
		VM-40SA	2
		CM-2SNC+2	1
	D ( )		
31		D2H-E1+2	1
		VM-40SA	3
		CM-2SNC+2	1
	E ( )		
32		D2H-E1+2	1
		VM-40SA	2
		CM-2SNC+2	1
	F ( )		
33		D2H-E1+2	1
		VM-40SA	3
		CM-2SNC+2	1
	G ( )		
34		D2H-E1+2	1
		VM-40SA	3
		CM-2SNC+2	1
	H ( )		
35		D2H-E1+2	1
		VM-40SA	3
		CM-2SNC+2	1
36			
		FTC-10	10
		QTN200M/500U	3



2.1-12

m<sup>3</sup>/d

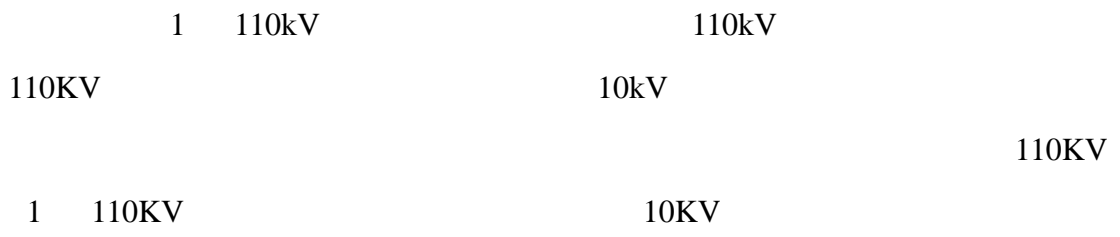
1		216	216	0	6	210	
		3835	15	3820	14	1	
		1260	10	1250	5	5	
2		2668	58	2610	55	3	
		3407	32	3375	30	2	
3		2050	50	2000	47	3	
		8	8	0	1	7	
4		88.08	88.08	0	17.62	70.46	
		13532.08	477.08	13055	175.62	301.46	



2.1-9

m<sup>3</sup>/d

**2.1.6.2**



**2.1.6.3**

4~6 /h

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VOCs	1			+1				1
15m		Y2#						
3								
	1							
			VOCs				1	7m
Y3#								
4								
	1							
VOCs				95%				
	1	15m	Y4#					
5								
				SO <sub>2</sub> NO <sub>x</sub>			1	15m
Y5#								
6								
7								
2								
3								
					HF HCl			
						2		
		SO <sub>2</sub> NO <sub>x</sub>					1	15m
Y6# Y7#								

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2.2.1.2

1

2.2-1

2.2-1

pH COD SS

1

3

1

1

1

2.2.1.3

1

2.2-2

2.2-2

1				
2				
3				
4				
5				

2

2.2-3

2.2-3

1		HW49	900-041-49				T/In	
2		HW12	900-252-12				T I	
3		HW49	900-039-49				T	
4		HW12	900-214-08				T I C	
5		HW17	336-064-17				T/C	

6		HW08	900-218-08				T I	
7		HW09	900-006-09				T	
8		HW08	900-249-08				T I	

1

325m<sup>2</sup>

1

1

1

700m<sup>2</sup>

1

1

(GB18597-2001)

10<sup>-7</sup>cm/s

1 ~1

3

2.2.1.4

65~110dB A

2.2.2

2017 4

"

"

2017

9

2017 117

2.2.2.1

75.3%~80.1%

2.2.2.2

1

RTO

GB16297-1996

RTO

GB16297-1996

4

GB16297-1996

2.2-4

2.2-4

			m <sup>3</sup> /h										
				/ mg/m <sup>3</sup>	/ kg/h	/ mg/m <sup>3</sup>	/ kg/h	/ mg/m <sup>3</sup>	/ kg/h	/ mg/m <sup>3</sup>	/ kg/h	/ mg/m <sup>3</sup>	/ kg/h
1#	2017-2-15	1	4270	0.7	/	2.6 10 <sup>-3</sup>	/	1.9	/	15	/	3	/
		2	4553	1.1	/	1.3 10 <sup>-3</sup>	/	1.6	/	15	/	3	/
		3	4450	0.7	/	1.7 10 <sup>-3</sup>	/	0.8	/	15	/	3	/
		4	4663	1.1	/	1.6 10 <sup>-3</sup>	/	1.1	/	15	/	3	/
		5	5032	1.1	/	1.3 10 <sup>-3</sup>	/	1.4	/	15	/	3	/
25m	2017-2-16	1	4321	1.4	/	2.1 10 <sup>-3</sup>	/	1.7	/	15	/	3	/
		2	4403	1.4	/	1.1 10 <sup>-3</sup>	/	0.9	/	15	/	3	/
		3	4338	1.0	/	1.9 10 <sup>-3</sup>	/	1.4	/	15	/	3	/
		4	4362	0.7	/	1.0 10 <sup>-3</sup>	/	1.3	/	15	/	3	/
		5	4519	0.7	/	1.8 10 <sup>-3</sup>	/	1.5	/	15	/	3	/
			4491	1.0	0.004	1.6 10 <sup>-3</sup>	7.2 10 <sup>-6</sup>	1.4	0.006	15	15	3	0
			/	120	14.45	70	3.8	120	35	550	9.65	240	2.85
			/										

## 2.2-4

			m <sup>3</sup> /h											
				/ mg/m <sup>3</sup>	/ kg/h	/ mg/m <sup>3</sup>	/ kg/h	/ mg/m <sup>3</sup>	/ kg/h	/ mg/m <sup>3</sup>	/ kg/h	/ mg/m <sup>3</sup>	/ kg/h	
2#	2017-2-15	1	3722	0.8	/	2.4 10 <sup>-3</sup>	/	1.0	/	15	/	3	/	
		2	3958	1.1	/	2.5 10 <sup>-3</sup>	/	1.2	/	15	/	3	/	
		3	3605	1.7	/	2.6 10 <sup>-3</sup>	/	0.7	/	15	/	3	/	
		4	3628	1.2	/	2.2 10 <sup>-3</sup>	/	1.6	/	15	/	3	/	
		5	3612	0.8	/	1.7 10 <sup>-3</sup>	/	1.4	/	15	/	3	/	
	15m	2017-2-16	1	3624	1.2	/	1.1 10 <sup>-3</sup>	/	1.0	/	15	/	3	/
			2	3632	1.2	/	3.8 10 <sup>-3</sup>	/	1.6	/	15	/	3	/
			3	4203	1.1	/	2.0 10 <sup>-3</sup>	/	1.3	/	15	/	3	/
			4	3920	1.5	/	4.1 10 <sup>-3</sup>	/	0.8	/	15	/	3	/
			5	3931	1.5	/	1.7 10 <sup>-3</sup>	/	1.5	/	15	/	3	/
		3784	1.2	0.005	2.4 10 <sup>-3</sup>	9.1 10 <sup>-6</sup>	1.2	0.005	15	0	3	0		
		/	120	3.5	70	1.0	120	10	550	2.60	240	0.77		
		/												

" "

## 2.2-4

			/ m <sup>3</sup> /h		
				/ mg/m <sup>3</sup>	/ kg/h
3# 1# 15m	2017-2-15	1	21103	1.2	/
		2	28686	1.7	/
		3	28686	1.9	/
		4	26127	2.1	/
		5	24127	1.7	/
	2017-2-16	1	29130	1.4	/
		2	22033	2.5	/
		3	25630	1.1	/
		4	28567	1.0	/
		5	26987	1.6	/
			26108	1.6	0.042
			/	120	3.5
			/		

## 2.2-4

			/ m <sup>3</sup> /h		
				/ mg/m <sup>3</sup>	/ kg/h
4 # 2# 15m	2017-2-15	1	16591	1.3	/
		2	15285	2.7	/
		3	14980	2.7	/
		4	14291	2.0	/
		5	15180	2.0	/
	2017-2-16	1	14980	1.1	/
		2	16091	1.7	/
		3	14985	1.6	/
		4	15632	2.1	/
		5	14361	2.1	/
			15238	1.9	0.029
			/	120	3.5
			/		

## 2.2-4

			/ m <sup>3</sup> /h		
				/ mg/m <sup>3</sup>	/ kg/h
5# 3# 15m	2017-2-15	1	14986	1.3	/
		2	15634	1.3	/
		3	15132	1.8	/
		4	16005	1.8	/
		5	15682	0.9	/
	2017-2-16	1	14155	1.3	/
		2	14855	1.7	/
		3	15106	1.3	/
		4	14235	0.9	/
		5	14325	1.3	/
			15012	1.4	0.021
			/	120	3.5
			/		

## 2.2-4

			/ m <sup>3</sup> /h		
				/ mg/m <sup>3</sup>	/ kg/h
6# 4# 15m	2017-2-15	1	27811	1.0	/
		2	27430	0.9	/
		3	25052	1.5	/
		4	22563	1.9	/
		5	24256	1.3	/
	2017-2-16	1	28443	1.4	/
		2	27331	1.5	/
		3	28621	1.0	/
		4	26503	2.0	/
		5	25631	1.0	/
			26364	1.4	
			/	120	3.5
			/		

2.2-5~7

2.2-5

/

mg/m<sup>3</sup>

			2.2-5~7				mg/m <sup>3</sup>		
			1#	2#	3#	4#			
	2017-2-17	09	0.092	0.185	0.203	0.148	0.332	1.0	
		10	0.110	0.129	0.221	0.166			
		11	0.129	0.147	0.184	0.148			
		12	0.092	0.166	0.203	0.129			
	2017-2-18	10	0.147	0.240	0.184	0.185			
		12	0.110	0.332	0.147	0.203			
		14	0.129	0.258	0.166	0.166			
		16	0.129	0.276	0.185	0.185			
	2017-2-17	09	0.9	0.3	0.5	0.2	1.0	4.0	
		10	0.6	0.7	0.6	0.5			
		11	1.0	0.2	0.6	0.8			
		12	0.4	0.7	0.9	0.7			
	2017-2-18	10	0.2	0.8	0.3	0.7			
		12	0.8	0.2	0.5	0.4			
		14	0.7	0.2	0.4	0.2			
		16	0.5	0.5	0.5	0.3			
	2017-2-17	09	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>	1.2	
		10	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>			
		11	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>			
		12	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>			
	2017-2-18	10	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>			
		12	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>			
		14	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>			
		16	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>			

		2.2-6				mg/m <sup>3</sup>			
		1#	2#	3#	4#				
2017-2-17	09	0.461	0.370	0.332	0.364	0.332	1.0		
	10	0.442	0.332	0.276	0.311				
	11	0.479	0.257	0.312	0.328				
	12	0.459	0.295	0.294	0.311				
	2017-2-18	10	0.479	0.333	0.777				0.313
		12	0.443	0.352	0.276				0.294
		14	0.440	0.297	0.296				0.312
		16	0.460	0.314	0.314				0.277
2017-2-17	09	0.8	0.6	0.7	0.2	1.0	4.0		
	10	0.2	0.7	0.4	0.5				
	11	0.4	0.6	0.4	0.5				
	12	0.7	0.3	0.2	0.4				
	2017-2-18	10	0.3	0.7	0.6				0.5
		12	0.2	0.9	0.5				0.7
		14	0.5	0.7	0.3				0.4
		16	0.5	0.3	0.3				0.2
2017-2-17	09	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>	1.2		
	10	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>				
	11	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>				
	12	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>				
	2017-2-18	10	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>				1.0 10 <sup>-3</sup>
		12	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>				1.0 10 <sup>-3</sup>
		14	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>				1.0 10 <sup>-3</sup>
		16	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>	1.0 10 <sup>-3</sup>				1.0 10 <sup>-3</sup>

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		2.2-7				mg/m <sup>3</sup>		
		1#	2#	3#	4#			
2017-2-17	09	0.296	0.274	0.380	0.184	0.332	1.0	
	10	0.294	0.256	0.302	0.221			
	11	0.258	0.221	0.339	0.222			
	12	0.276	0.239	0.320	0.240			
2017-2-18	10	0.295	0.204	0.294	0.239			

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	1#	2#	3#	4#		
	12	0.257	0.239	0.240	0.220	
	14	0.240	0.221	0.257	0.258	
	16	0.259	0.202	0.276	0.221	
	09	0.4	0.8	0.4	0.4	
2017-2-17	10	0.6	0.4	0.8	0.7	
	11	0.4	0.3	0.7	0.4	
	12	0.5	0.3	0.5	0.2	
	10	0.6	0.6	0.3	0.5	1.0 4.0
2017-2-18	12	0.5	0.4	0.6	0.4	
	14	0.3	0.8	0.7	0.5	
	16	0.5	0.4	0.5	0.8	
	09	1.0				
2017-2-17						

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2.2-8

: mg/L pH

				pH		COD <sub>Cr</sub>			
1#	2017-2-15	10 00	8.32	0.86	62	/	0.031	0.14	
		12 00	8.36	0.80	58	/	0.034	0.12	
		14 00	8.34	0.85	70	/	0.033	0.12	
		16 00	8.33	0.81	76	/	0.032	0.15	
		18 00	8.35	0.83	68	/	0.032	0.13	
	2017-2-16	9 30	8.46	0.74	83	/	0.05	0.14	
		11 30	8.42	0.84	80	/	0.05	0.12	
		13 30	8.38	0.76	92	/	0.05	0.13	
		15 30	8.43	0.74	76	/	0.05	0.15	
		17 30	8.44	0.72	96	/	0.05	0.13	
			/	0.80	76	/	0.016	0.13	
2#pH 1	2017-2-15	10 15	/	/	/	/	/	1.20	
		12 15	/	/	/	/	/	1.34	
		14 15	/	/	/	/	/	1.22	
		16 15	/	/	/	/	/	1.21	
		18 15	/	/	/	/	/	1.36	
	2017-2-16	9 35	/	/	/	/	/	1.21	
		11 35	/	/	/	/	/	1.34	
		13 35	/	/	/	/	/	1.22	
		15 35	/	/	/	/	/	1.20	
		17 35	/	/	/	/	/	1.35	
			/	/	/	/	/	1.27	
3#	2017-2-15	9 30	7.37	/	2.44 10 <sup>3</sup>	10.40	/	/	
		11 30	7.29	/	2.04 10 <sup>3</sup>	8.40	/	/	
		13 30	7.33	/	2.12 10 <sup>3</sup>	10.30	/	/	
		15 30	7.31	/	2.02 10 <sup>3</sup>	7.80	/	/	
		17 30	7.35	/	1.88 10 <sup>3</sup>	9.34	/	/	
	2017-2-16	9 40	7.22	/	2.40 10 <sup>3</sup>	7.42	/	/	
		11 40	7.25	/	2.31 10 <sup>3</sup>	6.51	/	/	
		13 40	7.31	/	2.10 10 <sup>3</sup>	6.79	/	/	

			15 40	7.27	/	$1.99 \cdot 10^3$	7.83	/	/		
			17 40	7.29	/	$1.82 \cdot 10^3$	7.47	/	/		
				/	/	$1.91 \cdot 10^3$	8.32	/	/		
	4#	2017-2-15	9 45	7.89	/	$2.09 \cdot 10^3$	0.21	/	/		
				11 45	7.92	/	$1.98 \cdot 10^3$	0.22	/	/	
				13 45	7.86	/	$2.02 \cdot 10^3$	0.23	/	/	
				15 45	7.90	/	$1.91 \cdot 10^3$	0.26	/	/	
				17 45	7.93	/	$1.78 \cdot 10^3$	0.28	/	/	
			2017-2-16	9 45	7.82	/	$2.06 \cdot 10^3$	0.19	/	/	
					11 45	7.78	/	$1.96 \cdot 10^3$	0.20	/	/
					13 45	7.85	/	$1.98 \cdot 10^3$	0.16	/	/
					15 45	7.81	/	$1.88 \cdot 10^3$	0.17	/	/
					17 45	7.83	/	$1.75 \cdot 10^3$	0.23	/	/
				/	/	$1.94 \cdot 10^3$	0.22	/	/		
	5#	2017-2-15	9 15	10.26	/	$1.79 \cdot 10^3$	9.06	/	/		
					11 15	10.22	/	$1.88 \cdot 10^3$	9.22	/	/
					13 15	10.24	/	$1.84 \cdot 10^3$	8.68	/	/
					15 15	10.25	/	$1.78 \cdot 10^3$	8.61	/	/
					17 15	10.27	/	$1.73 \cdot 10^3$	8.98	/	/
			2017-2-16	9 50	10.13	/	$1.71 \cdot 10^3$	10.10	/	/	
					11 50	10.18	/	$1.78 \cdot 10^3$	7.20	/	/
					13 50	10.15	/	$1.80 \cdot 10^3$	8.81	/	/
					15 50	10.21	/	$1.73 \cdot 10^3$	9.46	/	/
					17 50	10.17	/	$1.67 \cdot 10^3$	9.51	/	/
				/	/	$1.77 \cdot 10^3$	8.96	/	/		

		2.2-9			: mg/L pH											
		pH													m <sup>3</sup> /d	
6#	2017-2-15	09 00	6.98	24	15.1	502	65.5	0.86	0.31	0.036	0.24	0.05	0.05	0.05	187	
		11 00	7.01	24	19.1	423	73.2	0.54	0.28	0.041	0.25	0.05	0.05	0.05		
		13 00	6.92	28	17.3	490	74.5	0.81	0.26	0.040	0.26	0.05	0.05	0.05		
		15 00	7.04	30	16.8	506	77.7	0.77	0.26	0.040	0.26	0.05	0.05	0.05		
		17 00	7.00	26	17.6	496	62.2	0.97	0.25	0.036	0.24	0.05	0.05	0.05		
		10 00	7.05	29	14.0	478	66.3	1.05	0.29	0.05	0.24	0.05	0.05	0.05	184	
	2017-2-16	12 00	7.01	20	13.7	499	74.4	1.11	0.28	0.05	0.26	0.05	0.05	0.05		
		14 00	7.04	23	13.5	468	62.5	1.40	0.28	0.05	0.26	0.05	0.05	0.05		
		16 00	7.02	29	14.9	506	76.3	0.96	0.28	0.05	0.26	0.05	0.05	0.05		
		18 00	7.03	24	14.5	491	70.0	1.35	0.28	0.05	0.25	0.05	0.05	0.05		
		6.92~7.0 5	26	15.7	486	70.3	0.98	0.28	0.019	0.25	0.05	0.05	0.05T	186	T	
		6~9	400	/	500	300	20	/	5.0	1.0						

2

BOD<sub>5</sub>

pH

COD<sub>Cr</sub>

GB8978-1996

2.2-10

2.2-10

: mg/L pH

				pH			
7#	2017-2-15	10 05	7.36	10	17.7	92	34.5
		12 10	7.32	9	16.5	106	42.5
		14 08	7.35	11	17.0	82	32.0
	2017-2-16	09 10	7.31	8	15.8	105	32.8
		11 15	7.33	10	15.5	86	26.5
		13 20	7.29	13	17.7	118	34.6
			7.29~7.36	10	16.7	98	33.8
			6~9	400	/	500	300
				/			
8#	2017-2-15	10 05	8.52	8	20.4	113	37.4
		12 10	7.48	8	21.2	134	39.9
		14 08	7.53	10	20.9	138	35.9
	2017-2-16	09 10	7.55	13	19.8	90	31.0
		11 15	7.49	11	19.6	100	35.0
		13 20	7.53	10	20.6	132	38.6
			7.48~8.52	10	20.4	118	36.3
			6~9	400	/	500	300
				/			
9#	2017-2-15	10 05	7.24	9	21.6	177	62.2
		12 10	7.33	9	20.8	170	55.5
		14 08	7.28	12	19.5	125	46.7
	2017-2-16	09 10	7.36	9	22.3	184	59.8
		11 15	7.32	9	22.1	176	54.5
		13 20	7.35	9	22.6	152	41.5
			7.24~7.36	10	21.5	164	53.4
			6~9	400	/	500	300
				/			

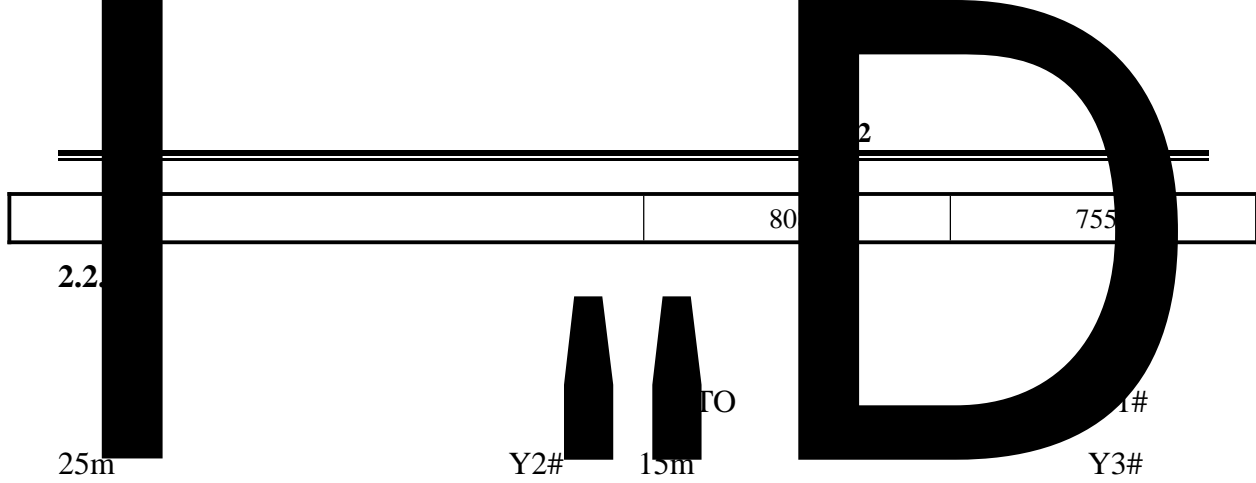
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		<b>pH</b>					
10#	2017-2-15	10 05	7.61	12	18.0	108	30.5
		12 10	7.56	8	17.5	96	29.1
	14 08	7.59	9	18.3	89	27.7	
	09 10	7.56	12	19.2	104	27.8	
	2017-2-16	11 15	7.58	13	19.6	89	25.1
		13 20	7.58	14	19.2	100	29.6
			7.56~7.61	11	18.6	98	28.3
		6~9					

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GB16297-1996 2

1.4-6

GB16297-1996 2.2-3

VOCs

GB37822-2019

1.4-6~7

2

2.2-12~ 2.2-14

1

RTO

GB 16297-1996 2

2

GB

16297-1996 2

3

## 2.2-12

		2020 12 25				2020 12 26					
		1	2	3		1	2	3			
RTO 25m 1#	(m/s)	4.77	4.84	4.84	4.82	4.76	4.84	4.96	4.73	/	/
	( )	88	90	91	90	93	94	95	94	/	/
	(m <sup>3</sup> /h)	6212	6279	6247	6246	6112	6203	6325	6213	/	/
	(mg/m <sup>3</sup> )	6	6.9	6	6.3	7.3	8.2	8.1	7.9	120	
	(kg/h)	0.037	0.043	0.037	0.039	0.045	0.051	0.051	0.049	14.45	
	(mg/m <sup>3</sup> )	<3	<3	<3	<3	<3	<3	<3	<3	550	
	(kg/h)	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	9.65	
	(mg/m <sup>3</sup> )	15	20	23	19	32	15	20	22	240	
	(kg/h)	0.093	0.13	0.14	0.12	0.2	0.093	0.13	0.14	2.85	
	(mg/m <sup>3</sup> )	1.2	4.61	2.11	2.64	0.23	1.15	0.77	0.717	120	
	(kg/h)	7.45×10 <sup>-3</sup>	0.0289	0.0132	0.0165	1.4×10 <sup>-3</sup>	7.13×10 <sup>-3</sup>	4.9×10 <sup>-3</sup>	4.5×10 <sup>-3</sup>	35	
	(mg/m <sup>3</sup> )	0.13	0.21	0.13	0.16	0.15	0.01	0.05	0.07	/	/
	(kg/h)	8.1×10 <sup>-4</sup>	1.3×10 <sup>-3</sup>	8.1×10 <sup>-4</sup>	9.7×10 <sup>-4</sup>	9.2×10 <sup>-4</sup>	6×10 <sup>-5</sup>	3×10 <sup>-4</sup>	4×10 <sup>-4</sup>	/	/
	(mg/m <sup>3</sup> )	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	/	/
	(kg/h)	<1×10 <sup>-5</sup>	<1×10 <sup>-5</sup>	<1×10 <sup>-5</sup>	<1×10 <sup>-5</sup>	<1×10 <sup>-5</sup>	<1×10 <sup>-5</sup>	<1×10 <sup>-5</sup>	<1×10 <sup>-5</sup>	/	/
	(mg/m <sup>3</sup> )	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	/	/
	(kg/h)	<2×10 <sup>-5</sup>	<3×10 <sup>-5</sup>	<2×10 <sup>-5</sup>	<2×10 <sup>-5</sup>	<2×10 <sup>-5</sup>	<2×10 <sup>-5</sup>	<3×10 <sup>-5</sup>	<2×10 <sup>-5</sup>	/	/
	(mg/m <sup>3</sup> )	0.035	0.029	0.032	0.032	0.012	<0.006	0.007	0.007	/	/
	(kg/h)	2.2×10 <sup>-4</sup>	1.8×10 <sup>-4</sup>	2.0×10 <sup>-4</sup>	2.0×10 <sup>-4</sup>	7.3×10 <sup>-5</sup>	<4×10 <sup>-5</sup>	4×10 <sup>-5</sup>	4×10 <sup>-5</sup>	/	/
	(mg/m <sup>3</sup> )	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	/	/
(kg/h)	<6×10 <sup>-6</sup>	<6×10 <sup>-6</sup>	<6×10 <sup>-6</sup>	<6×10 <sup>-6</sup>	<6×10 <sup>-6</sup>	<6×10 <sup>-6</sup>	<6×10 <sup>-6</sup>	<6×10 <sup>-6</sup>	/	/	
(mg/m <sup>3</sup> )	0.019	0.022	0.021	0.021	0.027	0.012	0.019	0.019	12		
(kg/h)	1.2×10 <sup>-4</sup>	1.4×10 <sup>-4</sup>	1.3×10 <sup>-4</sup>	1.3×10 <sup>-4</sup>	1.7×10 <sup>-4</sup>	7.4×10 <sup>-5</sup>	1.2×10 <sup>-4</sup>	1.2×10 <sup>-4</sup>	1.9		
(mg/m <sup>3</sup> )	0.006	0.006	0.005	0.006	0.008	<0.004	<0.004	0.004	/	/	

		2020			12	25	2020			12	26		
		1	2	3		1	2	3					
	(kg/h)	$4 \times 10^{-5}$	$4 \times 10^{-5}$	$3 \times 10^{-5}$	$4 \times 10^{-5}$	$5 \times 10^{-5}$	$< 2 \times 10^{-5}$	$< 3 \times 10^{-5}$	$2 \times 10^{-5}$	/	/		
3-	(mg/m <sup>3</sup> )	0.006	0.006	0.008	0.007	0.007	0.005	0.006	0.006	/	/		
3-	(kg/h)	$4 \times 10^{-5}$	$4 \times 10^{-5}$	$5 \times 10^{-5}$	$4 \times 10^{-5}$	$4 \times 10^{-5}$	$3 \times 10^{-5}$	$4 \times 10^{-5}$	$4 \times 10^{-5}$	/	/		
	(mg/m <sup>3</sup> )	0.038	0.041	0.044	0.041	0.063	0.007	0.068	0.046	40			
	(kg/h)	$2.4 \times 10^{-4}$	$2.6 \times 10^{-4}$	$2.7 \times 10^{-4}$	$2.6 \times 10^{-4}$	$3.9 \times 10^{-4}$	$4 \times 10^{-5}$	$4.3 \times 10^{-4}$	$2.9 \times 10^{-4}$	11.6			
	(mg/m <sup>3</sup> )	0.413	0.176	0.373	0.321	0.068							

		2020 12 25				2020 12 26					
		1	2	3		1	2	3			
	(mg/m <sup>3</sup> )	<0.007	<0.007	<0.007	<0.007	0.089	<0.007	<0.007	0.032	/	/
	(kg/h)	<4×10 <sup>-5</sup>	<4×10 <sup>-5</sup>	<4×10 <sup>-5</sup>	<4×10 <sup>-5</sup>	5.4×10 <sup>-4</sup>	<4×10 <sup>-5</sup>	<4×10 <sup>-5</sup>	2.0×10 <sup>-5</sup>	/	/
	2- (mg/m <sup>3</sup> )	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	/	/
	2- (kg/h)	<2×10 <sup>-5</sup>	<2×10 <sup>-5</sup>	<2×10 <sup>-5</sup>	<2×10 <sup>-5</sup>	<2×10 <sup>-5</sup>	<2×10 <sup>-5</sup>	<2×10 <sup>-5</sup>	<2×10 <sup>-5</sup>	/	/
	1- (mg/m <sup>3</sup> )	0.016	<0.008	<0.008	0.008	0.017	<0.008	<0.008	0.008	/	/
	1- (kg/h)	9.9×10 <sup>-5</sup>	<5×10 <sup>-5</sup>	<5×10 <sup>-5</sup>	5×10 <sup>-5</sup>	1.0×10 <sup>-4</sup>	<5×10 <sup>-5</sup>	<5×10 <sup>-5</sup>	5×10 <sup>-5</sup>	/	/

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2

## 2.2-13

		2020 12 25				2020 12 26					
		1	2	3		1	2	3			
	(m/s)	14.73	15.01	14.73	14.82	14.85	14.83	14.78	14.82	/	/
	( )	39	39	39	39	39	39	39	39	/	/
	(m <sup>3</sup> /h)	21272	21630	21231	21378	21412	21403	21351	21389	/	/
	(mg/m <sup>3</sup> )	7.5	7.2	7.1	7.3	8.8	7.2	6.8	7.6	120	
	(kg/h)	0.16	0.16	0.15	0.16	0.19	0.15	0.15	0.16	3.5	
	(mg/m <sup>3</sup> )	1.64	1.38	1.03	1.35	5.24	1.64	1.01	2.63	120	
	(kg/h)	0.0349	0.0298	0.0219	0.0289	0.112	0.0351	0.0216	0.0562	10	
	(mg/m <sup>3</sup> )	0.03	0.07	0.07	0.06	0.09	0.2	0.17	0.15	/	/
15m	(kg/h)	6×10 <sup>-4</sup>	2×10 <sup>-3</sup>	1×10 <sup>-3</sup>	1×10 <sup>-3</sup>	2×10 <sup>-3</sup>	4.3×10 <sup>-3</sup>	3.6×10 <sup>-3</sup>	3.3×10 <sup>-3</sup>	/	/
	(mg/m <sup>3</sup> )	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002	/	/
2#	(kg/h)	<4×10 <sup>-5</sup>	<4×10 <sup>-5</sup>	<4×10 <sup>-5</sup>	<4×10 <sup>-5</sup>	<4×10 <sup>-5</sup>	4×10 <sup>-5</sup>	<4×10 <sup>-5</sup>	<4×10 <sup>-5</sup>	/	/
	(mg/m <sup>3</sup> )	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	/	/
	(kg/h)	<8×10 <sup>-5</sup>	<9×10 <sup>-5</sup>	<8×10 <sup>-5</sup>	<8×10 <sup>-5</sup>	<9×10 <sup>-5</sup>	<9×10 <sup>-5</sup>	<9×10 <sup>-5</sup>	<9×10 <sup>-5</sup>	/	/
	(mg/m <sup>3</sup> )	0.033	0.12	0.163	0.105	0.123	0.29	0.296	0.236	/	/

		2020			12			25				
		1	2	3	1	2	3	1	2	3		
	(kg/h)	$7.0 \times 10^{-4}$	$2.60 \times 10^{-3}$	$3.46 \times 10^{-3}$	$2.25 \times 10^{-3}$	$2.63 \times 10^{-3}$	$6.21 \times 10^{-3}$	$6.32 \times 10^{-3}$	$5.05 \times 10^{-3}$	/	/	
	(mg/m <sup>3</sup> )	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	/	/	
	(kg/h)	$<2 \times 10^{-5}$	$<2 \times 10^{-5}$	$<2 \times 10^{-5}$	$<2 \times 10^{-5}$	$<2 \times 10^{-5}$	$<2 \times 10^{-5}$	$<2 \times 10^{-5}$	$<2 \times 10^{-5}$	/	/	
	(mg/m <sup>3</sup> )	0.012	0.014	0.014	0.013	0.02	0.027	0.019	0.022	12		
	(kg/h)	$2.6 \times 10^{-4}$	$3.0 \times 10^{-4}$	$3.0 \times 10^{-4}$	$2.9 \times 10^{-4}$	$4.3 \times 10^{-4}$	$5.8 \times 10^{-4}$	$4.1 \times 10^{-4}$	$4.7 \times 10^{-4}$	0.5		
	(mg/m <sup>3</sup> )	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	/	/	
	(kg/h)	$<9 \times 10^{-5}$	$<9 \times 10^{-5}$	$<8 \times 10^{-5}$	$<8 \times 10^{-5}$	$<9 \times 10^{-5}$	$<9 \times 10^{-5}$	$<9 \times 10^{-5}$	$<9 \times 10^{-5}$	/	/	
3-	(mg/m <sup>3</sup> )	0.006	0.006	0.006	0.006	<0.002	0.015	0.006	0.007	/	/	
3-	(kg/h)	$1 \times 10^{-4}$	$1 \times 10^{-4}$	$1 \times 10^{-4}$	$1 \times 10^{-4}$	$<4 \times 10^{-5}$	$3.2 \times 10^{-4}$	$1 \times 10^{-4}$	$1 \times 10^{-4}$	/	/	
	(mg/m <sup>3</sup> )	0.084	0.09	0.084	0.086	0.099	0.104	0.103	0.102	40		
	(kg/h)	$1.8 \times 10^{-3}$	$1.9 \times 10^{-3}$	$1.8 \times 10^{-3}$	$1.8 \times 10^{-3}$	$2.1 \times 10^{-3}$	$2.23 \times 10^{-3}$	$2.20 \times 10^{-3}$	$2.18 \times 10^{-3}$	3.1		
	(mg/m <sup>3</sup> )	0.313	0.468	0.546	0.442	0.716						

		2020 12 25				2020 12 26					
		1	2	3		1	2	3			
		2-	(mg/m <sup>3</sup> )	<0.001	<0.001	<0.001	<0.001	<0.001	0.004		
2-	(kg/h)	<2×10 <sup>-5</sup>	<2×10 <sup>-5</sup>	<2×10 <sup>-5</sup>	<2×10 <sup>-5</sup>	<2×10 <sup>-5</sup>	9×10 <sup>-5</sup>	<2×10 <sup>-5</sup>	4×10 <sup>-5</sup>	/	/
	(mg/m <sup>3</sup> )	<0.003	0.008	<0.003	0.004	<0.003	<0.003	<0.003	<0.003	/	/
	(kg/h)	<6×10 <sup>-5</sup>	2×10 <sup>-4</sup>	<6×10 <sup>-5</sup>	9×10 <sup>-5</sup>	<6×10 <sup>-5</sup>	<6×10 <sup>-5</sup>	<6×10 <sup>-5</sup>	<6×10 <sup>-5</sup>	/	/
1-	(mg/m <sup>3</sup> )	<0.003	<0.003	<0.003	<0.003	<0.003	0.004	<0.003	<0.003	/	/
1-	(kg/h)	<6×10 <sup>-5</sup>	<6×10 <sup>-5</sup>	<6×10 <sup>-5</sup>	<6×10 <sup>-5</sup>	<6×10 <sup>-5</sup>	9×10 <sup>-5</sup>	<6×10 <sup>-5</sup>	<6×10 <sup>-5</sup>	/	/
	(mg/m <sup>3</sup> )	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	/	/
	(kg/h)	<1×10 <sup>-4</sup>	<2×10 <sup>-4</sup>	<1×10 <sup>-4</sup>	<1×10 <sup>-4</sup>	<1×10 <sup>-4</sup>	<1×10 <sup>-4</sup>	<1×10 <sup>-4</sup>	<1×10 <sup>-4</sup>	/	/
2-	(mg/m <sup>3</sup> )	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	/	/
2-	(kg/h)	<6×10 <sup>-5</sup>	<6×10 <sup>-5</sup>	<6×10 <sup>-5</sup>	<6×10 <sup>-5</sup>	<6×10 <sup>-5</sup>	<6×10 <sup>-5</sup>	<6×10 <sup>-5</sup>	<6×10 <sup>-5</sup>	/	/
1-	(mg/m <sup>3</sup> )	<0.008	0.015	0.015	0.011	<0.008	0.021	<0.008	0.01	/	/
1-	(kg/h)	<2×10 <sup>-4</sup>	3.2×10 <sup>-4</sup>	3.2×10 <sup>-4</sup>	2.5×10 <sup>-4</sup>	<2×10 <sup>-4</sup>	4.5×10 <sup>-4</sup>	<2×10 <sup>-4</sup>	2×10 <sup>-4</sup>	/	/

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## 2.2-14

		2020 12 25				2020 12 26					
		1	2	3		1	2	3			
			(m/s)	4.94	5.12	4.79	4.95	4.8	4.98		
	( )	60	62	63	62	42	41	41	41	/	/
	(m <sup>3</sup> /h)	556	573	535	555	573	595	611	593	/	/
	(mg/m <sup>3</sup> )	6.6	6.2	5.4	6.1	4.8	5	6.6	5.5	120	
7m	(kg/h)	3.7×10 <sup>-3</sup>	3.6×10 <sup>-3</sup>	2.9×10 <sup>-3</sup>	3.4×10 <sup>-3</sup>	2.8×10 <sup>-3</sup>	3.0×10 <sup>-3</sup>	4.0×10 <sup>-3</sup>	3.3×10 <sup>-3</sup>	0.8	
	(mg/m <sup>3</sup> )	1.25	0.96	0.82	1.01	3.2	9.48	4.82	5.83	120	
3#	(kg/h)	6.95×10 <sup>-4</sup>	5.5×10 <sup>-4</sup>	4.4×10 <sup>-4</sup>	5.6×10 <sup>-4</sup>	1.83×10 <sup>-3</sup>	5.64×10 <sup>-3</sup>	2.95×10 <sup>-3</sup>	3.47×10 <sup>-3</sup>	2	
	(mg/m <sup>3</sup> )	0.14	0.17	0.15	0.15	0.08	0.12	0.11	0.1	/	/

		2020	12	25		2020	12	26		
	1	2	3		1	2	3			
(kg/h)	$7.8 \times 10^{-5}$	$9.7 \times 10^{-5}$	$8.0 \times 10^{-5}$	$8.5 \times 10^{-5}$	$5 \times 10^{-5}$	$7.1 \times 10^{-5}$	$6.7 \times 10^{-5}$	$6.3 \times 10^{-5}$	/	/
(mg/m <sup>3</sup> )	0.003	0.004	0.003	0.003	<0.002	<0.002	<0.002	<0.002	/	/
(kg/h)	$2 \times 10^{-6}$	$2 \times 10^{-6}$	$2 \times 10^{-6}$	$2 \times 10^{-6}$	$<1 \times 10^{-6}$	$<1 \times 10^{-6}$	$<1 \times 10^{-6}$	$<1 \times 10^{-6}$	/	/
(mg/m <sup>3</sup> )	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	/	/
(kg/h)	$<2 \times 10^{-6}$	$<2 \times 10^{-6}$	$<2 \times 10^{-6}$	$<2 \times 10^{-6}$						

		2020 12 25				2020 12 26					
		1	2	3		1	2	3			
		(mg/m <sup>3</sup> )	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		
(kg/h)	<3×10 <sup>-6</sup>	<3×10 <sup>-6</sup>	<3×10 <sup>-6</sup>	<3×10 <sup>-6</sup>	<3×10 <sup>-6</sup>	<3×10 <sup>-6</sup>	<3×10 <sup>-6</sup>	<3×10 <sup>-6</sup>	/	/	
(mg/m <sup>3</sup> )	0.579	0.552	0.575	0.569	2.27	2.07	2.27	2.2	70		
(kg/h)	3.22×10 <sup>-4</sup>	3.16×10 <sup>-4</sup>	3.08×10 <sup>-4</sup>	3.15×10 <sup>-4</sup>	1.30×10 <sup>-3</sup>	1.23×10 <sup>-3</sup>	1.39×10 <sup>-3</sup>	1.31×10 <sup>-3</sup>	0.2		
(mg/m <sup>3</sup> )	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	/	/	
(kg/h)	<2×10 <sup>-6</sup>	<2×10 <sup>-6</sup>	<2×10 <sup>-6</sup>	<2×10 <sup>-6</sup>	<2×10 <sup>-6</sup>	<2×10 <sup>-6</sup>	<2×10 <sup>-6</sup>	<2×10 <sup>-6</sup>	/	/	
2- (mg/m <sup>3</sup> )	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	/	/	
2- (kg/h)	<6×10 <sup>-6</sup>	<6×10 <sup>-6</sup>	<5×10 <sup>-6</sup>	<5×10 <sup>-6</sup>	<6×10 <sup>-7</sup>	<6×10 <sup>-7</sup>	<6×10 <sup>-7</sup>	<6×10 <sup>-7</sup>	/	/	
(mg/m <sup>3</sup> )	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	/	/	
(kg/h)	<2×10 <sup>-6</sup>	<2×10 <sup>-6</sup>	<2×10 <sup>-6</sup>	<2×10 <sup>-6</sup>	<2×10 <sup>-6</sup>	<2×10 <sup>-6</sup>	<2×10 <sup>-6</sup>	<2×10 <sup>-6</sup>	/	/	
1- (mg/m <sup>3</sup> )	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	/	/	
1- (kg/h)	<2×10 <sup>-6</sup>	<2×10 <sup>-6</sup>	<2×10 <sup>-6</sup>	<2×10 <sup>-6</sup>	<2×10 <sup>-6</sup>	<2×10 <sup>-6</sup>	<2×10 <sup>-6</sup>	<2×10 <sup>-6</sup>	/	/	
(mg/m <sup>3</sup> )	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	/	/	
(kg/h)	<4×10 <sup>-6</sup>	<4×10 <sup>-6</sup>	<4×10 <sup>-6</sup>	<4×10 <sup>-6</sup>	<4×10 <sup>-6</sup>	<4×10 <sup>-6</sup>	<4×10 <sup>-6</sup>	<4×10 <sup>-6</sup>	/	/	
2- (mg/m <sup>3</sup> )	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	/	/	
2- (kg/h)	<2×10 <sup>-6</sup>	<2×10 <sup>-6</sup>	<2×10 <sup>-6</sup>	<2×10 <sup>-6</sup>	<2×10 <sup>-6</sup>	<2×10 <sup>-6</sup>	<2×10 <sup>-6</sup>	<2×10 <sup>-6</sup>	/	/	
1- (mg/m <sup>3</sup> )	<0.008	<0.008	<0.008	<0.008	0.016	<0.008	<0.008	0.008	/	/	
1- (kg/h)	<4×10 <sup>-6</sup>	<5×10 <sup>-6</sup>	<4×10 <sup>-6</sup>	<4×10 <sup>-6</sup>	9.2×10 <sup>-6</sup>	<5×10 <sup>-6</sup>	<5×10 <sup>-6</sup>	5×10 <sup>-6</sup>	/	/	

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2

2.2-15

GB16297-1996 2

1m

GB37822-2019 A.1

2.2-15

mg/m<sup>3</sup>

		2.2-15											
		2020 12 25					2020 12 26						
		1	2	3	4		1	2	3	4			
5m 1#	(mg/m <sup>3</sup> )	0.033	0.050	0.017	0.05	0.05	0.033	0.017	0.017	0.033	0.033	1.0	
5m 2#		0.117	0.100	0.183	0.067	0.183	0.1	0.083	0.15	0.133	0.15		
5m 3#		0.133	0.117	0.067	0.117	0.133	0.083	0.1	0.183	0.15	0.183		
5m 4#		0.133	0.067	0.083	0.083	0.133	0.067	0.083	0.1	0.083	0.100		
5m 1#	(mg/m <sup>3</sup> )	0.70	0.48	0.77	0.61	0.77	0.56	0.77	0.55	0.46	0.77	4	
5m 2#		0.84	0.66	0.76	0.37	0.84	0.71	0.36	0.8	0.28	0.8		
5m 3#		0.72	0.69	0.65	0.70	0.72	0.67	0.57	0.58	0.57	0.67		
5m 4#		0.53	0.68	0.53	0.53	0.68	0.54	0.68	0.59	0.54	0.68		
1m 5#		0.62	0.65	0.55	0.60	0.65	0.68	0.53	0.81	0.56	0.81	10	
5m 1#	(mg/m <sup>3</sup> )	10.9×10 <sup>-3</sup>	5.7×10 <sup>-3</sup>	4.2×10 <sup>-3</sup>	5.5×10 <sup>-3</sup>	10.9×10 <sup>-3</sup>	5.7×10 <sup>-3</sup>	7.3×10 <sup>-3</sup>	8.4×10 <sup>-3</sup>	12.1×10 <sup>-3</sup>	12.1×10 <sup>-3</sup>	2.4	
		5.1×10 <sup>-3</sup>	3.1×10 <sup>-3</sup>	17.2×10 <sup>-3</sup>	15.6×10 <sup>-3</sup>	17.2×10 <sup>-3</sup>	12.2×10 <sup>-3</sup>	7.3×10 <sup>-3</sup>	6.4×10 <sup>-3</sup>	9.5×10 <sup>-3</sup>	12.2×10 <sup>-3</sup>		

		2020	12	25		2020	12	26	
	1	2	3	4		1	2	3	4
5m									

3

1

VOCs

2.2-16

1728.63t/a

45%

90%

95%

90.32t/a

47.54t/a

192.07t/a

30%

85%

95%

19.16t/a

6.72t/a

2.2-16

t/a

	Y1#	Y2#)	(Y3#)	Y4#)		
	0.5458	0.7733	0.4549	0.4788	2.2528	1.68
	15.8249	22.4186	13.1874	13.8815	65.3124	48.707
	16.3707	23.1919	13.6423	14.3603	67.5652	50.387
VOCs	52.7686	74.7556	43.9739	46.2883	217.7863	162.415
	90.32	19.16	/	/	109.48	54.26

RTO

NOx SO<sub>2</sub>

Y1# RTO

43.7 m<sup>3</sup>/a

2010

4430

2.2-17 4430

-

/					Nm <sup>3</sup> / m <sup>3</sup> -	136259.17
/					SO <sub>2</sub> kg/ m <sup>3</sup> -	0.02S*
					NOx kg/ m <sup>3</sup> -	18.71

					kg/ m <sup>3</sup>	1.4
* 20mg/m <sup>3</sup>						

SO<sub>2</sub> NO<sub>x</sub> 0.0175t/a 0.818t/a 0.062t/a

2

0.35kg/t 3210t

1.12t/a

3

CO<sub>2</sub> 5~8g/kg 8g/kg CO<sub>2</sub>

64t/a 0.51t/a

4

5

0.045kg/t

165t/a

0.132t/a

10%

0.0132t/a

5

0.0001kg/t

10348.08t/a

0.001t/a

2.2-18

2.2-18

t/a

	2.2528	1.68	3.9328
	65.3124	48.707	114.0194
	67.5652	51.507	119.0722
VOCs	217.7863	162.415	380.2013
	109.542	54.7842	164.3262

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SO <sub>2</sub>	0.0175	/	0.0175
NO <sub>x</sub>	0.818	/	0.818

2.2.3.2

1

GB8978-1996

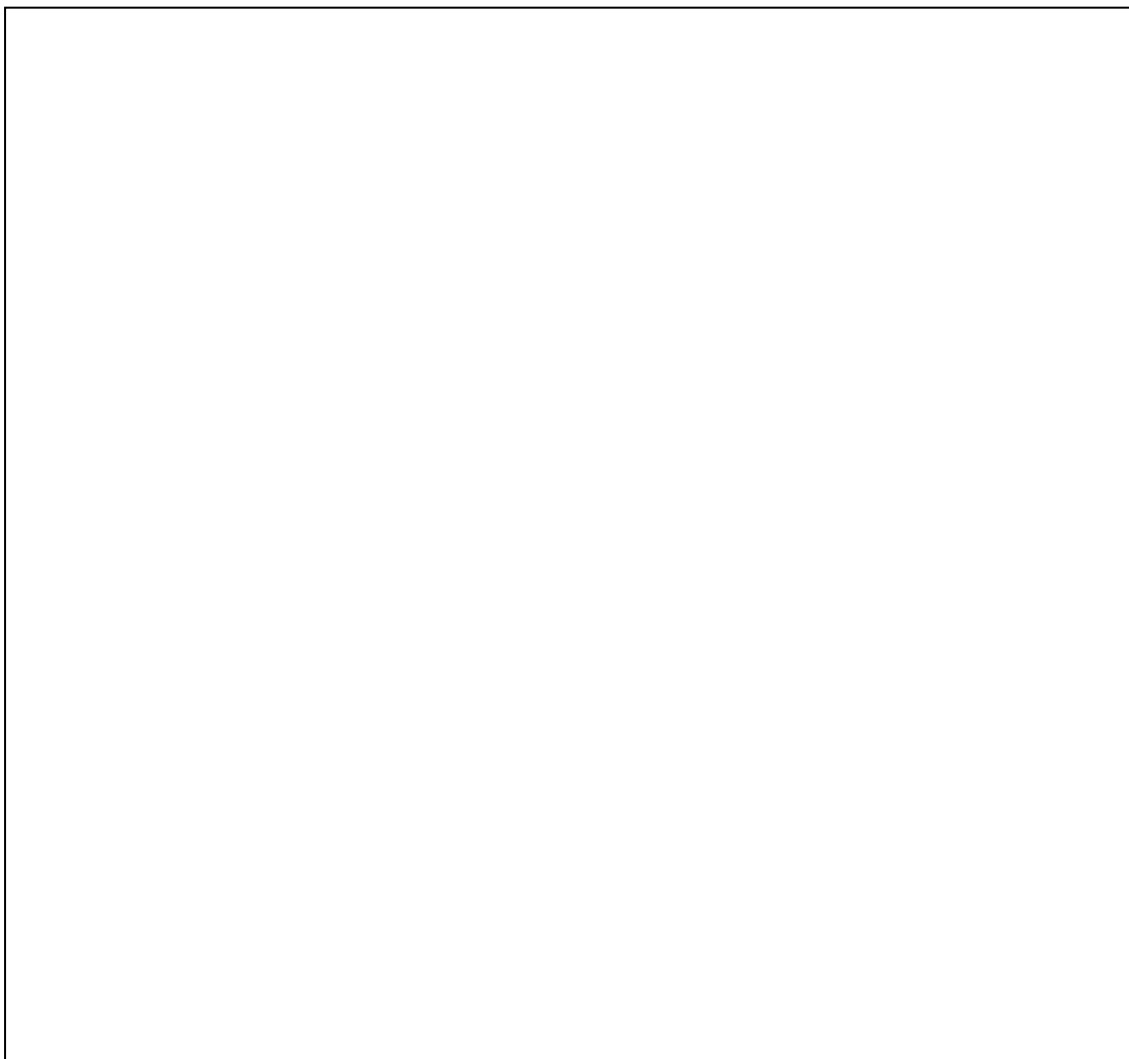
2

W1#

W2#

W3#

2.2-2



2.2-2

3

2.2-19

GB8978-1996

GB8978-1996

		2.2-19				mg/L					
		2020	12	25		2020	12	26			
		1	2	3	/	1	2	3	/		
W1	pH	7.2	7.17	7.16	7.16~7.20	7.19	7.17	7.16	7.16~7.19	6~9	
	mg/L	20	20	22	21	19	22	22	21	400	
	mg/L	346	337	333	339	349	336	326	337	500	
	mg/L	141	145	149	145	147	143	146	145	300	
	mg/L	30.4	28.9	28.5	29.3	29.3	28.3	28.2	28.6	/	
	mg/L	0.45	0.45	0.44	0.45	0.45	0.46	0.44	0.45	/	
	1#	mg/L	0.68	0.76	0.66	0.7	0.64	0.72	0.65	0.67	20
	mg/L	0.012	0.01	0.01	0.011	0.012	0.01	0.01	0.011	5	
	mg/L	$2 \times 10^{-3}$	$2 \times 10^{-3}$	$2 \times 10^{-3}$	$2 \times 10^{-3}$	$2 \times 10^{-3}$	$2 \times 10^{-3}$	$2 \times 10^{-3}$	$2 \times 10^{-3}$	$2 \times 10^{-3}$	0.5
	mg/L	$2 \times 10^{-3}$	$2 \times 10^{-3}$	$2 \times 10^{-3}$	$2 \times 10^{-3}$	$2 \times 10^{-3}$	$2 \times 10^{-3}$	$2 \times 10^{-3}$	$2 \times 10^{-3}$	$2 \times 10^{-3}$	0.5
	mg/L	$2 \times 10^{-3}$	$2 \times 10^{-3}$	$2 \times 10^{-3}$	$2 \times 10^{-3}$	$2 \times 10^{-3}$	$2 \times 10^{-3}$	$2 \times 10^{-3}$	$2 \times 10^{-3}$	1.0	
W2											
	4#										

		2020 12 25				2020 12 26					
		1	2	3	/	1	2	3	/		
	mg/L	1.26	1.29	1.33	1.29	1.35	1.37	1.34	1.35	/	/
	mg/L	0.24	0.21	0.22	0.22	0.22	0.2	0.2	0.21	100	

“ ”

3

2.1-9

218m<sup>3</sup>/d

57770m<sup>3</sup>/a

70.46m<sup>3</sup>/d 18672m<sup>3</sup>/a

2.2-20

2.2-20

							t/a
	mg/L	m <sup>3</sup> /a	t/a	mg/L	m <sup>3</sup> /a	t/a	
COD	349	57770	20.162	184	18672	3.436	23.598
BOD <sub>5</sub>	149		8.608	62		1.158	9.766
SS	22		1.271	21		0.392	1.663
	30.4		1.756	23		0.429	2.185

2.2.3.3

893.79t/a

1

385t/a

2

314.28t/a

3

194.51t/a

2.2-21

2.2-21

		(t/a)		
		10		
		348		
		12		
		10		
		5		

		HW49 900-041-49	4.67		
		HW12 900-252-12	63.67		
		HW49 900-039-49	32.25		
		HW12 900-214-08	32.25		
		HW17 336-064-17	27.40		
		HW08 900-218-08	2.04		
		HW09 900-006-09	72		
		HW08 900-249-08	80		
			194.51		
		/	893.79	/	/

## 2.2.3.4

/

65 110dB A

65 75dB A

## 2.2-22

2.2-22

dB A

		( /		
		12	70~75	60~65
		6	75~80	60~65
		16	60~70	50~55
		16	65~70	55 60
		2	80~85	70~75
		15	80~90	70~75

		5	75~80		60~65
		3	65~70		55 60
		42	75~80		65 70
		7	90~95		80 85
		8	65~70		55 60
		2	75~80		60~65
		4	70~75		60~65
		40	85~90		75~80
		16	80~85		70~75
		1	65~75		55 60
		1	65~70		50 55

## 2.2.3.5

" "

2.2-22

2.2-22

" "

		t/a
		2.2528
		65.3124
		67.5652
	VOCs	217.7863
		109.542
	SO <sub>2</sub>	0.0175
	NO <sub>x</sub>	0.818
		1.68
		48.707
		51.507
	VOCs	162.415
		54.7842
	m <sup>3</sup> /a	76442
	COD	23.598
	BOD <sub>5</sub>	9.766
	SS	1.663
		2.185
		385
		314.28

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		194.51
--	--	--------

2.3

GB16297-1996 " 7m 15 m"



30m<sup>2</sup>

1200m<sup>2</sup>

220m<sup>2</sup>

440m<sup>2</sup>

+1

+

15m

G1#

+1

UV

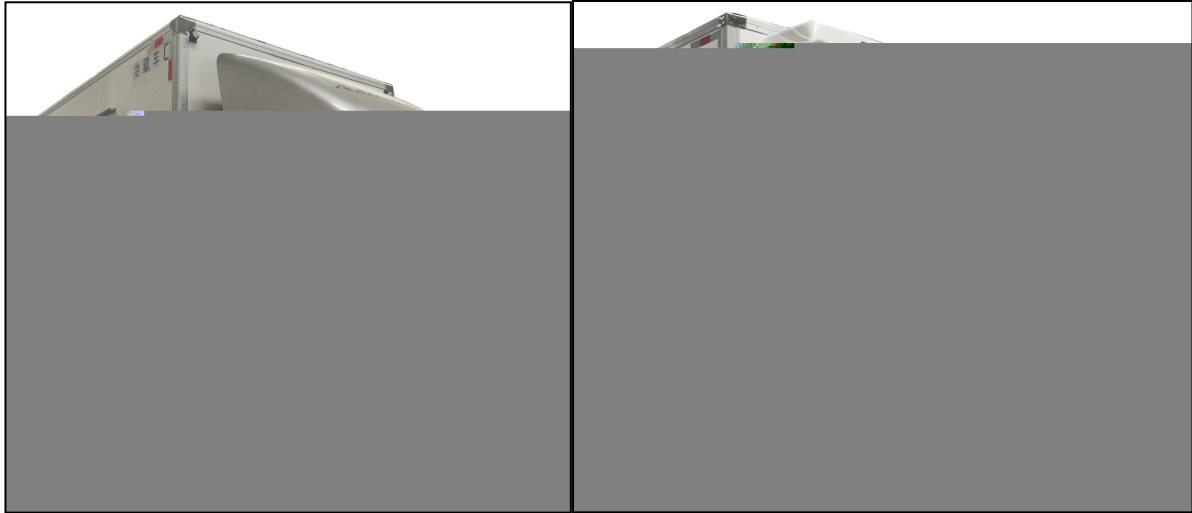
+

+1

15m

G2#

GB8978-1996



C

E

3.1.5

3.1-3

3.1-3

1		HAF-200-C5		1
2	PU	HAF-200-C5 YXJ-HPU-2-1000		2
3		WC67Y-100/3200		1
4		QC12K-4X2500		1
5		JJ-80		1
6		MJK1132F1		1
7		2.95		2
8		1		2
9		LA-03B-A		1
10		Z3732		1
11		G134028X		1
12		MODEL 2512B		1
13		Ehave CM350 OTC ODVE350 KR-350		14
14				1

3.1.6

3.1-4

3.1-4

1		A		45	
2		B		75	
3				300	
4				36	
5				36	
6				1.5	
7				10.5	
8				612	
9				3.6	
10				12	/
11				18600	
12				4.8	
13		103A		2.1	
14		103B		2.1	
15		105A		2.25	
16		105B		0.75	
17				0.25	
18				0.3	
19				0.24	
20				0.15	
21				0.15	
22				0.15	
23				0.45	
24				0.15	
25				0.32	
26				960	
27		92#		12	
28				18600	

3.1-5

3.1-5

1	A	5%	30%	(2- )	55%
2	B	4%	43% VOCs	43%	52%
3		70%	5%	25% VOCs	30%
4		20% VOCs	20%	PMA	20%
5	N	25%	-B	8%	1% N
		0.5% VOCs	0.5%	0.5%	0.5%
		3%	0.5%	60.5%	

			2.5%	GG0.5%	
6			20%	20% VOCs 80%	60%
7			20%	20% VOCs 80%	60%
8			20%	20% VOCs 80%	60%
9			20%	PMA 20% VOCs 80%	60%
10			45% VOCs	45%	55%
11			25%	20%	30% 25%
13	105	105A B 1:1 16%		2.4% 0.4% MDI 20%	24% 37.2%
14	103	103A B 1:1 6% 8% MDI 10% VOCS 10%		48%	7.5% 3% 17.5%
15			60%		40%

VOCs

3.1.7

1

2

GB8978-1996

3

CO<sub>2</sub>

3.2

3.2.1

3.2-1

3.2-1

1

1

CO<sub>2</sub>

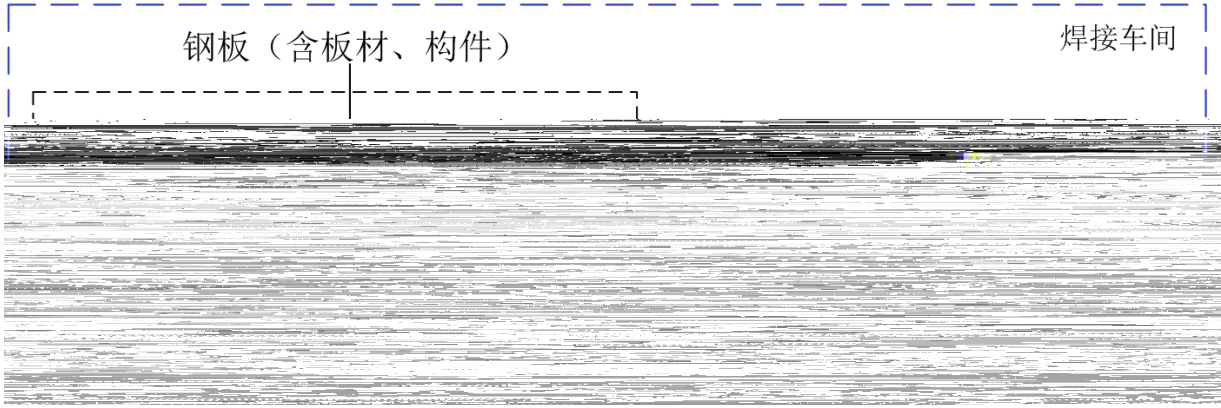
CO<sub>2</sub>

2

/

A B

PU



3.2-1

2

3.2-1

3.2-1

					/	
	G1				1 +1 15m G1#	
	G2					
	G3					
	G4		VOCs		+ +1 UV +1 15m G2#	
	G5		VOCs			
	G6		VOCs			
	G7		VOCs			
	W1		SS COD			
	S1		/			
			/			
	S2		/			
	S3		/			
		AB	/			
	S4		/			
	S5		/			
	S6		/	/		
			/			
			/			
			/			/
			/			
	N1~ N6		/	/	/	

3.2.2

1

GB8978-1996

288m<sup>3</sup>/d      2m<sup>3</sup>      20      0.6m<sup>3</sup>/min      0.1%      1

2

VOCs				70.91 Pa	101.3kPa	
	50~260		250		(	C2~C8)
						3.2-3
	3.2-4					
		3.2-3				
					%	
	t/a			NMHC		VOCs
B	75	-	-	-		43
	0.25	-	-	-		30
	0.3	20	-	-		60
	0.24	-	-	1.5		1.5
						3

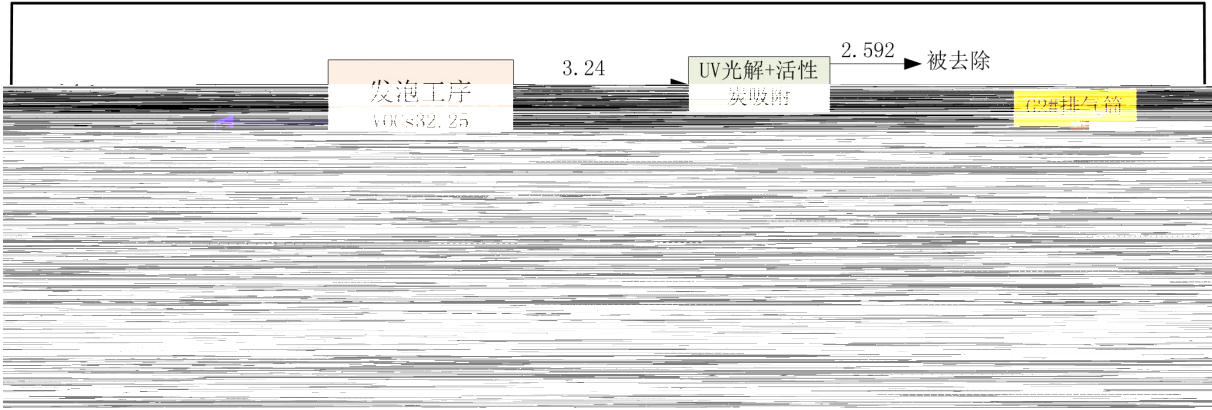
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	0.15	0.03	-	-	0.09	0.12
	0.45	0.09	-	-	0.27	0.36
	0.15	-	-	-	0.0675	0.0675
103	4.2	-	-	-	0.42	0.42

---

---



3.2-3

t/a

### 3.3

#### 3.3.1

CO NOx

#### 3.3.2

30

3

60L/d

80%

1.44m<sup>3</sup>/d

129.6m<sup>3</sup>

GB8978-1996

3.3-1

3.3-1

		COD	BOD <sub>5</sub>	SS	
129.6m <sup>3</sup>	mg/L	250	150	100	25
	(t)	0.032	0.019	0.013	0.003
	mg/L	184	62	21	23
	(t)	0.024	0.008	0.003	0.003
	mg/L	500	300	400	-

3.3.3

1m

3.3-2

		1m	A	dB(A)	
1				90	
2				85	
3				90	
4				88	

3.3.4

30

0.5kg/ .d

0.015t/d 1.35t

3.4

3.4.1

1

1

CO<sub>2</sub>

CO<sub>2</sub>

MnO<sub>2</sub>

SiO<sub>2</sub> Fe<sub>2</sub>O<sub>3</sub>

CO NO<sub>x</sub>

CO<sub>2</sub>

5~8g/kg

8g/kg

CO<sub>2</sub>

3.6t/a

0.029t/a

0.1%

612t/a

0.612t/a

CO<sub>2</sub>

1 15m

G1#

90%

50%

90%

2000m<sup>3</sup>/h

2400h/a

3.4-1

3.4-1

G1#	Nm <sup>3</sup> /h						
		mg/m <sup>3</sup>	kg/h	t/a	mg/m <sup>3</sup>	kg/h	t/a
	2000	69	0.138	0.332	6.9	0.0138	0.0332

2

90%

10%

50%

50%

60%

40%

3.4-2

3.4-2

		kg/h	t/a	kg/h	t/a
		0.0013	0.003	0.0013	0.003
		0.1275	0.306	0.051	0.122
		0.1288	0.309	0.0523	0.125

2

1

-201

0.245kg/m<sup>3</sup>-

864m<sup>3</sup>

0.212t/a

0.1%

372t/a

0.372t/a

2

A

-OH

B

-NCO

VOCs

-292

-2924

VOCs

30kg/t-

3 × 10<sup>5</sup>m<sup>3</sup>/ -

VOCs

3.6t/a

15000m<sup>3</sup>/h

1 UV + 1 15m  
 90% 80% 2400h 3.4-3

3.4-3

G2#	VOCs	m <sup>3</sup> /h						
			mg/m <sup>3</sup>	kg/h	t/a	mg/m <sup>3</sup>	kg/h	t/a
		15000	90	1.35	3.24	18	0.27	0.648

3

60% 40%

3.4-4

3.4-4

	VOCs				
		kg/h	t/a	kg/h	t/a
		0.088	0.212	0.088	0.212
		0.155	0.372	0.062	0.149
		0.243	0.584	0.15	0.361
	VOCs	0.15	0.36	0.15	0.36

3

1

3

A B

3

VOCs

10%

4.2t/a

VOCs

0.42t/a

2

VOCs

30%

0.25t/a

VOCs

0.075t/a

VOCs

80%

0.3t/a

VOCs

0.24t/a

0.06t/a

0.06t/a

3

0.09t/a  
 30% 0.063t/a  
 VOCs 0.7947t/a  
 0.18t/a 0.1836t/a

4

3.4-5

3.4-5

		kg/h	t/a	kg/h	t/a
	VOCs	0.175	0.42	0.175	0.42
	VOCs	0.1313	0.315	0.1313	0.315
		0.025	0.06	0.025	0.06
		0.025	0.06	0.025	0.06
	VOCs	0.331	0.7947	0.331	0.7947
		0.075	0.18	0.075	0.18
		0.077	0.1836	0.077	0.1836
		0.0263	0.063	0.0263	0.063
	VOCs	0.6373	1.5297	0.6373	1.5297
		0.1	0.24	0.1	0.24
		0.102	0.2436	0.102	0.2436
		0.0263	0.063	0.0263	0.063

3.4-7

/

3.4.2

1

60~80dB(A)

3.4-10

3.4-10

dB(A)

1			90-95			75
2			85-90			75
3			90-95			75
4			80-85			70
5			80-85			70
6			85~90			75
7			85~90			75
8			80~85			70

3.4.4

AB

(GB18597-2001)

1 ~1

3.4-11

		(t/a)		
		0.03		/
		0.152		/
		1.9		/
		12		/
		9.6		/

	AB	HW49 900-041-49	0.3		0.5kg/ 600
		HW49 900-039-49	1.24		0.25kg /kg
		HW49 900-039-49	0.144		0.1kg/ 1440
		HW49 900-041-49	0.2		/
		HW49 900-041-49	0.5		
		HW12 900-252-12	0.27		/
		HW12 900-253-12	0.62		/
		HW08 900-214-08	0.5		/
			26.306	/	/

**3.4.5**

1

3.4-12

**3.4-12**

	t/a	t/a	t/a
	0.332	0.2988	0.0332

	60~95	/	60~80	/
--	-------	---	-------	---

2

3.4-13

3.4-13

		t/a
1		0.0332
2	VOCs	0.648

3.4.6

1

---

UV +

50%

1h

2

3.4-14

				mg/m <sup>3</sup>	kg/h	/h	/	
G1#				34.5	0.069	1	2	
G2#		UV +	VOCs	45	0.675	1	2	

2

3.5" "

3.5.1" "

3.5-1 " "

1	15m GB16297-1996	7m 15m
2		

3.5.2 " "

" " 3.5-2

3.5-2 " " t/a

		109.542	0.0332	0	109.5752	+0.0332
	VOCs	217.7863	0.648	0	218.4343	+0.648
		2.2528	0	0	2.2528	0
		65.3124	0	0	65.3124	0
		67.5652	0	0	67.5652	0
	SO <sub>2</sub>	0.0175	0	0	0.0175	0
	NO <sub>x</sub>	0.818	0	0	0.818	0
	VOCs	162.415	1.8897	0	164.2422	+1.8897
		48.707	0.24	0	48.947	+0.24
		51.507	0.2436	0	51.7506	+0.2436
		54.7842	0.549	0	55.3332	+0.549
		1.68	0	0	1.68	0
	m <sup>3</sup> /a	76442	941	0	77383	+941
	COD	23.598	0.176	0	23.774	+0.176
	SS	1.663	0.0194	0	1.6824	+0.0194
		2.185	0.021	0	2.206	+0.021
*		385	23.652	0	408.652	+23.652
		314.28	2.654	0	316.934	+2.654
		194.51	9.6	0	204.11	+9.6

\*

---

---

4

4.1

4.1.1

23°54 26°03 108°32 110°

28

18618km<sup>2</sup>

1

4.1.2

80 105 m

58.4%

5~10

80~100

“ ”

(D)

(C D)

(C D)

## 4.1.3

					20.5		
	24—27	7		28.8		35	
20			1953	39.2			
					5		1
				1489.1			4~8
	70	5		16.9	1		
2.7	1951		2013.7	1963	999		1
		1634.9	9				56 3
		16		6682.2		332	
				4~8			28.5
	3		1.6/				

## 4.1.4

	1							75km
		58270km <sup>2</sup>	92.43m	68.22m				1280m <sup>3</sup> /s 90%
	95%		163 m <sup>3</sup> /s	142 m <sup>3</sup> /s				250~500m
	62~66m	21.4		6~8	12		2	
			9					
60km								
		0.29 m <sup>3</sup>						
			192	4800m <sup>3</sup> /s			77.5m	
	108km							

2

22~

24

4.4-8.6m

**4.1.5**

186.86

7.89%

6.58

4

**4.1.6**

47

29

475

10

33

103

329

9

**4.1.7**

2009 62

4.1-1

**4.1-1**

				km	km <sup>2</sup>		
		1km	0.3km	1.3	0.143	0.065	0.208
			110m				
			50m				
		1km	0.3km	1.3	0.143	0	0.143
			110m				
		1km	0.1km	1.1	0.121	0.006	0.127

		110m	0~25m				
	1km	0.1km	-	1.1	0.121	0	0.121
		110m		4.8	0.528	0.071	0.599
				km	km <sup>2</sup>		
	1km			17.2	8.072	1.221	9.293
	300m		50m				
	2km		50m	2	0.07	0.2	0.27
				19.2	8.142	1.421	9.563
	1km		1000m	10	5	20	25
	2km		1000m	7	0.245	14	14.24 5
				17	5.245	34	39.24 5
	50						

4.6km

3km

8

**4.2****4.2.1**

		2019		2019
SO <sub>2</sub>	NO <sub>2</sub>	PM <sub>10</sub>	14μg/m <sup>3</sup>	25μg/m <sup>3</sup>
95	1.6mg/m <sup>3</sup>	O <sub>3</sub>	8	90
		GB3095-2012	PM <sub>2.5</sub>	145μg/m <sup>3</sup>
		GB3095-2012		38μg/m <sup>3</sup>

**4.2-1**

		μg/m <sup>3</sup>	μg/m <sup>3</sup>	%
SO <sub>2</sub>		14	60	23.3

---

---

NO<sub>2</sub>

25

40

62.5

HJ 644-2013	-	0.3~1.0μg/m <sup>3</sup>
	HJ 604-2017	0.07mg/m <sup>3</sup>
HJ 657-2013		0.3mg/m <sup>3</sup>

4.2.2.4

HJ2.2-2018 D TVOC  
P244

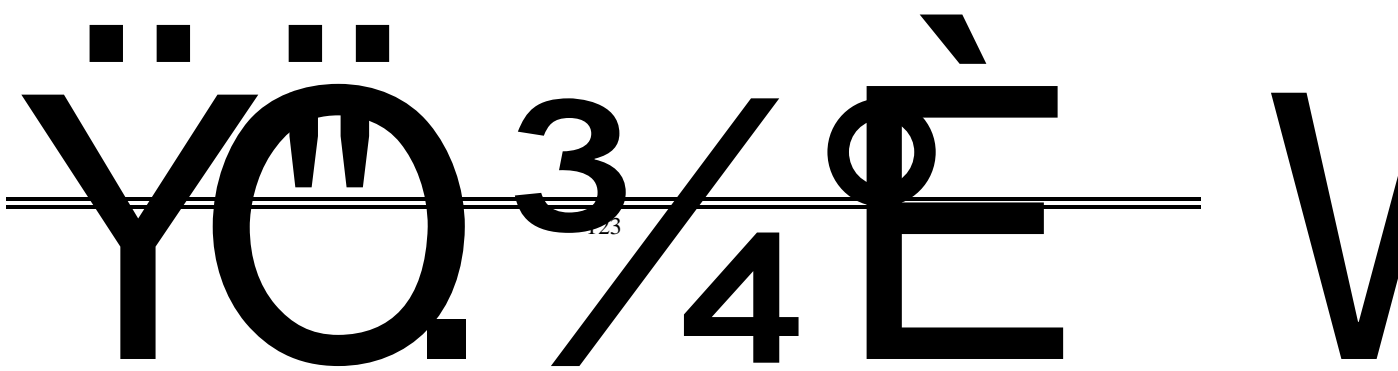
$C_{x,y} = \frac{1}{t} \int_0^t C_{x,y} dt$   
 $C_{x,y}$  — (x,y) μg/m<sup>3</sup>  
 $C_{j,t}$  — j t 1h  
 8h μg/m<sup>3</sup>  
 n—

4.2.2.5

4.2-4~4.2-5

4.2-4

		m/s		kPa
12	14	1.2~1.3	5.0~7.0	100.95
12	15	1.2~1.3	4.0~6.0	100.89
12	16	1.1~1.3	4.0~6.0	100.99
12	17	1.2	5.0~6.0	100.90
12	18	1.2~1.3	4.0~5.0	100.92
12	19	1.2~1.3	4.0~6.0	100.94
12	292			







## 4.4.2

K<sup>+</sup> Na<sup>+</sup> Ca<sup>2+</sup> Mg<sup>2+</sup> CO<sub>3</sub><sup>2-</sup> HCO<sub>3</sub><sup>-</sup> Cl<sup>-</sup> SO<sub>4</sub><sup>2-</sup> pH  
( )

30

## 4.4.3

3

## 4.4.4

HJ/T164-2004

GB/T14848-2017

4.4-2

## 4.4-2

			/
1	pH	2002 pH pH	0~14pH
2	K <sup>+</sup>	HJ 812-2016 K <sup>+</sup> Ca <sup>2+</sup> Mg <sup>2+</sup> Li <sup>+</sup> Na <sup>+</sup> NH <sub>4</sub> <sup>+</sup>	0.02mg/L
3	Na <sup>+</sup>		0.02mg/L
4	Ca <sup>2+</sup>		0.03mg/L
5	Mg <sup>2+</sup>		0.02mg/L
6	CO <sub>3</sub> <sup>2-</sup>		DZ/T 0064.49-1993
7	HCO <sub>3</sub> <sup>-</sup>		5mg/L
8	Cl <sup>-</sup>	HJ/T 84-2016 F <sup>-</sup> Cl <sup>-</sup> NO <sub>2</sub> <sup>-</sup> Br <sup>-</sup>	0.007mg/L
9	SO <sub>4</sub> <sup>2-</sup>	NO <sub>3</sub> <sup>-</sup> PO <sub>4</sub> <sup>3-</sup> SO <sub>3</sub> <sup>2-</sup> SO <sub>4</sub> <sup>2-</sup>	0.018mg/L
10		HJ 535-2009	0.025mg/L
11		HJ/T 346-2007	0.08mg/L
12		GB 7493-1987	0.003mg/L
13		HJ 503-2009 4-	0.0003mg/L
14		HJ 484-2009 1	0.001mg/L
15		GB 7467-1987 3 -	0.004mg/L
16		GB 7477-1987 EDTA	5.00mg/L
17		GB/T 5750.4-2006	—
18		GB/T 5750.7-2006 1.1	0.05mg/L
19		HJ 700-2014 65	0.05μg/L
20			0.09μg/L
21			0.08μg/L
22			0.67μg/L
23			0.06μg/L
24		GB 11911-1989	0.01mg/L

25		HJ 694-2014	0.04μg/L
26		HJ 1067-2019 /	2μg/L
27			2μg/L
28			2μg/L

## 4.4.5

GB/T14848-2017

HJ610-2016

1

$$i=C_i/C_{si}$$

$$i = \frac{C_i}{C_{si}}$$

$$C_i \text{ --- } i \text{ --- } \text{mg/L}$$

$$C_{si} \text{ --- } i \text{ --- } \text{mg/L}$$

2

pH

$$\frac{7.0}{7.0} \text{ --- } \text{pH } 7$$

$$P_p \text{ --- } \frac{7.0}{7.0} \text{ --- } (\text{pH} > 7)$$

$$P_{pH} \text{ --- } \text{pH}$$

$$\text{pH} \text{ --- } \text{pH}$$

$$\text{pH}_{su} \text{ --- } \text{pH}$$

$$\text{pH}_{sd} \text{ --- } \text{pH}$$

1

## 4.4.6

4.4-3

4.4-4

4.4-3

		m	m
D1		-4	-8
D2		-5	-11
D3		0	-5
D4		-6	-10
D5		-5	-12

---

---

D6		-5	-10
----	--	----	-----

4.4-4

GB/T14848-2017

		4.4-4				mg/L									
		pH		( )											
III		6.5~8.5	450	1000	3.0	0.5	250	250	20	1.0	0.002	0.05	1.0	1.0	0.2
	11 13	7.53	305	188	2.09	0.258	25.1	85.8	0.65	0.007	0.0007	0.001L	0.00046	0.00067L	0.00009L
	11 14	7.5	300	178	2.02	0.264	24.7	87.8	0.83	0.007	0.0006	0.001L	0.00045	0.00067L	0.00009L
	11 15	7.42	308	182	2.11	0.256	24.8	87.4	0.95	0.007	0.0007	0.001L	0.00048	0.00067L	0.00009L
	S <sub>ij</sub>	0.21~0.26	0.67~0.6	0.178~0.18	0.67~0.70	0.512~0.5	0.099~0.	0.34~0.3	0.033~0.	0.007	0.3~0.35	0.1	0.00045~0		
%	5	8	8		28	1	5	048				.00048	0.000335	0.000225	

D1

										$K^+$	$Na^+$	$Ca^{2+}$	$Mg^{2+}$	$CO_3^{2-}$	$HCO_3^-$
III		0.005	0.02	0.001	0.1	0.05	0.01	0.7	0.5	/	/	/	/	/	/
11	13	0.00005L	0.011	0.00008	0.01L	0.004L	0.002L	0.002L	0.002L	1.7	0.02L	118	26.8	5L	186
11	14	0.00005L	0.0119	0.00009	0.01L	0.004L	0.002L	0.002L	0.002L	1.84	0.02L	117	25.8	5L	189
11	15	0.00005L	0.0113	0.00009	0.01L	0.004L	0.002L	0.002L	0.002L	2.08	0.02L	116	26.6	5L	190
$S_{ij}$		0.005	0.55~0.595	0.08~0.09	0.05	0.04	0.1	0.0014	0.002	/	/	/	/	/	/
%		0	0	0	0	0	0	0	0	/	/	/	/	/	/
		0	0	0	0	0	0	0	0	/	/	/	/	/	/
		<b>pH</b> ( )													
III		6.5~8.5	450	1000	3.0	0.5	250	250	20	1.0	0.002	0.05	1.0	1.0	0.2
11	13	6.84	84	166	1.11	0.118	12	2.34	3.09	0.004	0.0003L	0.001L	0.00008L	0.00964	0.00009L
11	14	6.9	91	176	1.08	0.121	11.7	2.21	3.37	0.004	0.0003L	0.001L	0.00008L	0.0106	0.00009L
11	15	6.84	86	175	1.14	0.121	11.8	2.38	3.34	0.004	0.0003L	0.001L	0.00008L	0.00963	0.00009L
$S_{ij}$		0.1~0.16	0.187~0.202	0.166~0.176	0.36~0.38	0.236~0.242	0.0472~0.048	0.00884~0.00952	0.1545~0.1685	0.004	0.075	0.01	0.00004	0.00963~0.0106	0.000225
%		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
										$K^+$	$Na^+$	$Ca^{2+}$	$Mg^{2+}$	$CO_3^{2-}$	$HCO_3^-$
III		0.005	0.02	0.001	0.1	0.05	0.01	0.7	0.5	/	/	/	/	/	/
11	13	0.00005L	0.00416	0.00007	0.09	0.004L	0.002L	0.002L	0.002L	0.97	0.02L	19.3	4.64	5L	28
11	14	0.00005L	0.00423	0.00008	0.09	0.004L	0.002L	0.002L	0.002L	0.98	0.02L	19.0	4.54	5L	28
11	15	0.00005L	0.0032	0.00008	0.08	0.004L	0.002L	0.002L	0.002L	1.0	0.02L	20.1	4.84	5L	28
$S_{ij}$		0.005	0.16~0.21	0.07~0.08	0.8~0.9	0.04	0.1	0.0014	0.002	/	/	/	/	/	/
%		0	0	0	0	0	0	0	0	/	/	/	/	/	/
		0	0	0	0	0	0	0	0	/	/	/	/	/	/

## 4.5

2020 11 11 ~25

## 4.5.1

6

4.5-1

4

## 4.5-1

S1		-			+
S2		-			
S3		-			
S4		-			
S5		60m			
S6		175m			+
0~0.2m 0~0.5m 0.5~1.5m 1.5~3.0m					

## 4.5.2

S1

GB36600-2018

1

45

1,1-

1,2-

1,1-

-1,2-

-1,2-

1,2-

1,1,1,2-

1,1,2,2-

1,1,1-

1,1,2-

1,2,3-

1,2-

1,4-

+

2-

[a]

[a]

[b]

[k]

[a,h]

[1,2,3-cd]

46

0~0.5m

pH

/ cm/s

/ kg/m<sup>3</sup>

S2~S5

pH

+

S6

pH

GB36600-2018

1

45

+

## 4.5.3

1 1

## 4.5.4

## 4.5-2

4.5-2

mg/kg

1	pH	PH	HJ 962-2018	2~12
2		HJ 680-2013		0.01
3		/		0.002
4		GB/T 17141-1997		0.01
5		HJ 491-2019		0
6				10
7				3
8		HJ 1082-2019		0.5
9		HJ 745-2015		0.01
10		HJ 736-2015	/ -	0.003
11	1,2-	HJ 642-2013	/ -	0.0013
12				0.0015
13	-1,2-			0.0009
14				0.0026
15	1,1-			0.0008
16	-1,2-			0.0009
17	1,1-			0.0016
18				0.0015
19	1,1,1-			0.0011
20				0.0021
21		HJ 642-2013	/ -	0.0016
22				0.0009
23	1,2-			0.0019
24				0.002
25	1,1,2-			0.0014
26				0.0008
27				0.0011
28	1,1,1,2-			0.001
29				0.0012
30	, -			0.0036
31				0.0013
32				0.0016
33	1,1,2,2-			0.001

34	1,2,3-	HJ 834-2017	0.001
35	1,4-		0.0012
36	1,2-		0.001
37			0.003
38	2-		0.06
39			0.09
40			0.09
41	a		0.1
42			0.1
43	b		0.2
44	k		0.1
45	a		0.1
46	1,2,3-cd		0.1
47	a h		0.1

## 4.5.5

GB36600-2018

/

—

—

—

mg/kg

mg/kg

&gt;1

1

## 4.5.6

1

S1 S6

4.5-3~4.5-4

## 4.5-3

	S1	2020 11 25	S6	2020 11 17
	E109.345846° N24.332754°		E109.343724° N24.337603°	
	0-0.2m		0-0.2m	

		<20%	<20%
	pH	6.59	7.50
	cmol(+)/kg	10.1	9.0
	mv	521	423
	/ cm/s	$7.84 \times 10^{-6}$	$7.07 \times 10^{-6}$
	/ g/cm <sup>3</sup>	1.51	1.37
	%	49	50

2

4.5-4

4.5-4

GB36600-2018

		4.5-4					mg/kg			pH			
	pH										1,2-		
	/	<b>18000</b>	<b>800</b>	<b>65</b>	<b>900</b>	<b>38</b>	<b>60</b>	<b>5.7</b>	<b>135</b>	<b>37</b>	<b>5</b>	<b>0.43</b>	
S1-1	6.59	35	20	0.04	23	0.534	18.5	<0.5	0.02	<0.003	<0.0013	<0.0015	
S1-2	6.65	24	19	0.05	22	0.256	11.8	<0.5	<0.01	<0.003	<0.0013	<0.0015	
S1-3	6.83	24	14	0.03	20	0.235	11.2	<0.5	<0.01	<0.003	<0.0013	<0.0015	
Pi	/	0.0013~0.0019	0.0175~0.025	0.00046~0.00077	0.022~0.025	0.0062~0.014	0.187~0.31	<0.088	<0.000074~0.00015	<0.000081	<0.00026	<0.00349	
	/	0	0	0	0	0	0	0	0	0	0	0	
		<b>1,1-</b>	<b>-1,2-</b>	<b>1,1-</b>	<b>-1,2-</b>		<b>1,1,1-</b>				<b>1,2-</b>		
		<b>616</b>	<b>66</b>	<b>54</b>	<b>9</b>	<b>596</b>	<b>0.9</b>	<b>840</b>	<b>2.8</b>	<b>4</b>	<b>2.8</b>	<b>5</b>	<b>1200</b>
S1-1	<0.0026	<0.0008	<0.0009	<0.0016	<0.0009	<0.0015	<0.00;	<-					

S1

> >

0

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S1-2	<0.06	<0.09	<0.09	<0.1
------	-------	-------	-------	------

	/	0	0	0	0	0	0	0	0	0			
	<b>pH</b>											<b>1,2-</b>	
	/	<b>18000</b>	<b>800</b>	<b>65</b>	<b>900</b>	<b>38</b>	<b>60</b>	<b>5.7</b>	<b>135</b>	<b>37</b>	<b>5</b>	<b>0.43</b>	
	7.5	20	19	0.11	6	0.106	14.2	<0.5	<0.01	<0.003	<0.0013	<0.0015	
Pi	/	0.0011	0.024	0.0017	0.0067	0.0028	0.024	<0.088	<0.000074	<0.000081	<0.00026	<0.0035	
	/	0	0	0	0	0	0	0	0	0	0	0	
		<b>1,1-</b>	<b>-1,2-</b>	<b>1,1-</b>	<b>-1,2-</b>		<b>1,1,1-</b>					<b>1,2-</b>	
	<b>616</b>	<b>66</b>	<b>54</b>	<b>9</b>	<b>596</b>	<b>0.9</b>	<b>840</b>	<b>2.8</b>	<b>4</b>	<b>2.8</b>	<b>5</b>	<b>1200</b>	
	<0.0026	<0.0008	<0.0009	<0.0016	<0.0009	<0.0015	<0.0011	<0.0021	<0.0016	<0.0009	<0.0019	<0.002	
Pi	<0.0000042	<0.000012	<0.000017	<0.00018	<0.0000015	<0.0017	<0.0000013	<0.00075	<0.0004	<0.00032	<0.00038	<0.0000017	
	0	0	0	0	0	0	0	0	0	0	0	0	
S6	<b>1,1,2-</b>			<b>1,1,1,2-</b>		<b>, -</b>			<b>1,1,2,2-</b>	<b>1,2,3-</b>	<b>1,4-</b>	<b>1,2-</b>	
	<b>2.8</b>	<b>53</b>	<b>270</b>	<b>10</b>	<b>28</b>	<b>570</b>	<b>640</b>	<b>1290</b>	<b>6.8</b>	<b>0.5</b>	<b>20</b>	<b>560</b>	
	<0.0014	<0.0008	<0.0011	<0.001	<0.0012	<0.0382	<0.0013	<0.0016	<0.001	<0.001	<0.0012	<0.001	
Pi	<0.0005	<0.000015	<0.000004	<0.0001	<0.000043	<0.000067	<0.000002	<0.0000012	<0.00015	<0.002	<0.00006	<0.0000018	
	0	0	0	0	0	0	0	0	0	0	0	0	
	<b>2-</b>			<b>[a]</b>		<b>(b)</b>	<b>[k]</b>	<b>(a)</b>	<b>(1,2,3-cd)</b>	<b>[a h]</b>			
	<b>2256</b>	<b>76</b>	<b>70</b>	<b>15</b>	<b>1293</b>	<b>15</b>	<b>151</b>	<b>1.5</b>	<b>15</b>	<b>1.5</b>	<b>260</b>		
	<0.06	<0.09	<0.09	<0.1	<0.1	<0.2	<0.1	<0.1	<0.1	<0.1	0.062		
Pi	<0.000027	<0.0012	<0.0013	<0.0067	<0.000077	<0.0133	<0.00066	<0.067	<0.0067	<0.067	0.00024		
	0	0	0	0	0	0	0	0	0	0	0		

" &lt; "

## 4.6

2020 12 25 ~26

## 4.6.1

5

4.6-1

4

## 4.6-1

1		1m	
2		1m	
3		1m	
4		1m	
5		1m	

## 4.6.2

A LeqA

## 4.6.3

2 1 06 00-22 00 22 00-  
06 00 10min Leq(A)

## 4.6.4

GB3096-2008

5.0m/s

## 4.6.5

GB3096-2008 3

GB3096-2008 4a

## 4.6.6

4.6-2

4.6-2

dB(A)

		Leq		Leq		
2020.12.25	1#	58	51	65	55	
	2#	60	50			
	3#	59	48			
	4#	59	49			
	5#	59	49	70	55	

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2020.12.26	1#	60	50	65	55	
	2#	60	50			
	3#	59	49			
	4#	60	50			
	5#	58	50	70	55	

4.6-2

GB3096-2008 4a

GB3096-2008 3

## 5

## 5.1

## 5.1.1

CO

NOx

## 5.1.2

COD BOD<sub>5</sub> SS

## 5.1.3

85-90dB(A)

5.1-1

5.1-1

		dB		
		90	1m	
		85	1m	
		90	1m	
		88	1m	

$$L_2 = L_1 - 20 \lg(r_2/r_1)$$

$$\begin{array}{ccccccc} L_1 & L_2 & & r_1 & r_2 & & \text{dB(A)} \\ r_1 & r_2 & & & & & \text{(m)} \end{array}$$

$$\Delta L = L_1 - L_2 = 20 \lg(r_2/r_1)$$

## 5.1-2

5.1-2

dB(A)

			m									
			10m	20m	30m	40m	50m	60m	80m	100m	150m	200m
	75	55	70.0	64.0	60.5	58.0	56.0	54.4	51.9	50.0	46.5	44.0
	75	55	65.0	59.0	55.5	53.0	51.0	49.4	46.9	45.0	41.5	39.0
	75	55	70.0	64.0	60.5	58.0	56.0	54.4	51.9	50.0	46.5	44.0
	75	55	68.0	62.0	58.5	56.0	54.0	52.4	49.9	48.0	44.5	42.0

60m

GB12523-2011

20m

1

2

## 5.1.4

## 5.2

1

HJ2.2-2018 AERSCREEN

## 1.5.1.1

## 5.2-1~5.2-4

## 5.2-1

			mg/m <sup>3</sup> /	kg/h /	t/a /
G1#	D01		6.9	0.0138	0.0332
G2#	D02	VOCs	18	0.27	0.648
					0.0332
		VOCs			0.648

## 5.2-2

			mg/m <sup>3</sup> /	t/a /
		/		0.125
		/	GB16297-1996	0.361
	VOCs	/		0.36
	VOCs	/	GB37822-2019	1.5297
		/		0.24
		/	GB16297-1996	0.2436
		/		0.063
		VOCs		1.8897
				0.24
				0.2436
				0.549

## 5.2-3

		t/a /
1	VOCs	2.5377
2		0.24
3		0.2436
5		0.5822

## 5.2-4

				mg/m <sup>3</sup>	kg/h	/h	/	
G1#				34.5	0.069	1	2	
G2#		UV +	VOCs	45	0.675	1	2	

2

AERSCREEN

5.2-5

## 5.2-5

m	TVOC		PM <sub>10</sub>		PM <sub>2.5</sub>					
	/μg/m <sup>3</sup>	%	/μg/m <sup>3</sup>	%	/μg/m <sup>3</sup>	%				
67	15.0327	7.51	95.8034	7.98	15.33335	0.77	/	/	/	/
43	/	/	/	/	/	/	28.818	6.4	14.409	6.40

5.2-5

15.0327μg/m<sup>3</sup>

67m

7.51% PM<sub>10</sub> PM<sub>2.5</sub>28.818μg/m<sup>3</sup> 14.409μg/m<sup>3</sup>

43m

6.4%

GB3095-2012

TVOC

95.8034μg/m<sup>3</sup>

67m

7.98%

HJ2.2-2018

D

15.33335μg/m<sup>3</sup>

67m

0.77%

P244

## 5.3

HJ2.3-2018

B

## 5.3.1

20m<sup>3</sup>/a10m<sup>3</sup>/d3.07m<sup>3</sup>/d921m<sup>3</sup>/a

## 5.3.2

GB8978-1996

## 5.3.3

1

GB8978-1996

2020

COD

11.93mg/m<sup>3</sup> 0.24mg/m<sup>3</sup>

GB18918-2002

B

2020 10

19

GB 3838-2002

GB 3838-2002

2020 9

GB 3838-2002

GB 3838-2002

GB

3838-2002

GB 3838-2002

III

2

## 5.4

### 5.4.1

1

 $(Q^{ml})$  $(C^{ld})$ 

3

 $(Q^{ml}) :$ 

~

3~5

0.50~15.50m

 $(C^{ld}) :$ 

0.50~15.50m

0.70~7.10m

 $(C^{ld}) :$ 

0~19. 40m

5. 8~13. 20m

2

105~120m

30- 40m

### 5.4.2

#### 5.4.2.1

 $10^{-7} \text{cm/s}$

## 5.4.2.2

(HJ610-2016)

1

COD<sub>Cr</sub>NH<sub>3</sub>-N

2

HJ610-2016

1

$$\frac{C}{C_0} = \frac{1}{2} \operatorname{erfc}\left(\frac{x}{2\sqrt{Dt}}\right) = \frac{1}{2} \left[ 1 - \operatorname{erf}\left(\frac{x}{2\sqrt{Dt}}\right) \right]$$

x— m

t— d

C x t —t x mg/L

C<sub>0</sub>— mg/L

u— m/d

D<sub>L</sub>— m<sup>2</sup>/d

erfc —

100

630m

## 5.4-1

	m	m/d	m/d		D <sub>L</sub> (m <sup>2</sup> /d)
	20	0.031	2.6	0.36	0.92

3

3

1d 100d 1000d

4

COD NH<sub>3</sub>-N

COD

3.0mg/L NH<sub>3</sub>-N 0.5mg/L

5

5.4-2~5.4-3

## 5.4-2

## COD

## mg/L

1d		100d		1000d	
m	mg/L	m	mg/L	m	mg/L
0	250	150	2.664535E-12	2239	2.775558E-14
1	237.0123	180	7.687284E-06	2240	2.775558E-14
2	192.5079	210	0.169586	2400	0.0005110737
3	117.9844	223	2.807511	2515	2.993658
4	49.34888	256	56.98038	2594	18.09548
5	13.22754	280	12.86564	2678	2.981589
6	2.191292	290	2.791093	2800	0.0002376147
10	6.124006E-06	350	4.047609E-09	2900	2.464418E-10
13	2.359224E-12	370	6.938894E-14	2950	2.775558E-14
14	0	380	0	2960	0

5.4-3		NH <sub>3</sub> -N		mg/L	
1d		100d		1000d	
m	mg/L	m	mg/L	m	mg/L
0	25	150	2.664535E-13	2239	
1	23.70123	180	7.687284E-07	2240	2.775558E-15
2	19.25079	210	0.0169586	2400	5.110737E-05
3	11.79844	231	1.000229	2550	1.009089
4	4.934888	257	5.695711	2596	1.812402
5	1.322754	281	1.131063	2643	1.006644
6	0.2191292	300	0.03554301	2800	2.376147E-05
10	6.124006E-07	350	4.047609E-10	2900	2.464418E-11
13	2.359224E-13	370	6.938894E-15	2950	2.775558E-15
14	0	380	0	2960	0

3

1 COD  
 250mg/L 13m 6m COD  
 100 256m 56.98038mg/L  
 224m~289m COD 1000 2594m  
 18.09548mg/L 2515m~2678m COD NH<sub>3</sub>-N  
 25mg/L 13m 5m  
 NH<sub>3</sub>-N 100 257m 231~281m  
 NH<sub>3</sub>-N 1000 2596m  
 2550~2643m NH<sub>3</sub>-N

5.5

5.5.1

80~95dB A

10~25dB A

5.5-1

5.5-1		dB(A)	
1		90-95	75

2			85-90			75
3			90-95			75
4			80-85			70
5			80-85			70
6			85-90			75
7			85-90			75
8			80-85			70

5.5.2

(HJ2.4-2009)

1

A.1

$L_{p1}$   $L_{p2}$

A.6



TL—

dB



A.7



Q— Q=1  
 Q=2 Q=4 Q=8  
 R— R=Sa/ 1-a S m<sup>2</sup>  
 r— m  
 A.8 i

$$L_{P1i}(T) = 10 \lg \left( \sum_{j=1}^N 10^{0.1 L_{P1ij}} \right) \quad (\text{A.8})$$

L<sub>p1i</sub> T — N i dB  
 L<sub>p1ij</sub> — j i dB  
 N—  
 A.9

$$L_{P2i}(T) = L_{P1i}(T) - (TL_i + 6) \quad (\text{A.9})$$

L<sub>P2i</sub> T — N i dB  
 TL<sub>i</sub> — i dB  
 A.10

$$L_W = L_{P2}(T) + 10 \lg s \quad (\text{A.10})$$

A

2

( ) 0 20lg / 0

L<sub>A</sub> r — r A dB  
 r<sub>0</sub> r— m  
 L<sub>A</sub>— dB

3

$$L_0 = 10 \lg \left( \sum_{i=1}^n 10^{L_i/10} \right)$$

$L_0$ — dB(A)

$n$ —

$L_i$ — dB(A)

4

2

$$L_{eqg} = 10 \lg \left( \frac{1}{T} \sum_i t_i 10^{0.1 L_{Ai}} \right)$$

$L_{eqg}$ — dB(A)

$L_{Ai}$ —i A dB(A)

$T$ — s 60s

$t_i$ —i T s

### 5.5.3

5.5-2

5.5-2

dB A

	5.5-2				dB A			
	60	36.5	60.02		51	36.5	51.15	
	60	35.6	60.02		50	35.6	50.16	
	59	30.0	59.01		49	30.0	49.05	
	60	44.8	60.13		50	44.8	51.15	
	59	44.7	59.16		50	44.7	51.12	

5.5-2

GB12348-2008 3

GB12348-2008 4a

## 5.6

1

5.6-1

5.6-1

		(t/a)		
		0.03		/
		0.152		/
		1.9		/
		12		/
		9.6		/
AB	HW49 900-041-49	0.3		0.5kg/ 600
	HW49 900-039-49	1.24		0.25kg /kg
	HW49 900-039-49	0.144		0.1kg/ 1440
	HW49 900-041-49	0.2		/
	HW49 900-041-49	0.5		
	HW12 900-252-12	0.27		/
	HW12 900-253-12	0.62		/
	HW08 900-214-08	0.5		/
		26.306	/	/

2

1

1

$10^{-10}$ cm/s

GB18597-2001

2

5.7

5.8

5.8.1

5.8-1

5.8-2

5.8-1

		/	/

5.8-2

	/				
			VOCs	VOCs	
			VOCs	VOCs	
/	/		COD		

5.8.2

HJ964-2018 “ 5 ”

0.2km

0.99km<sup>2</sup>

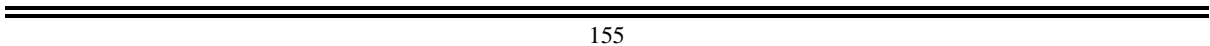
5.8-1



5.8.3

5.8-1

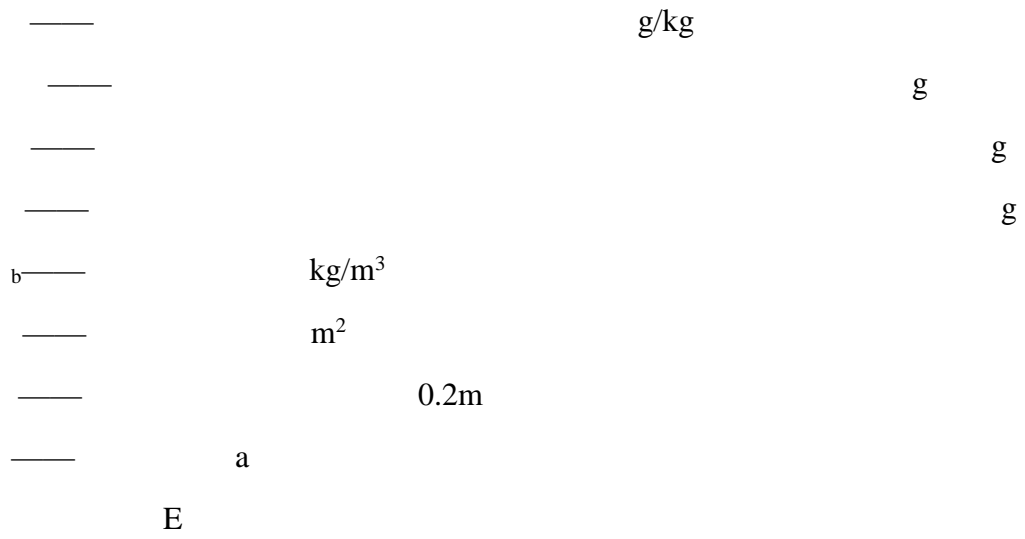
1



3

1

$$\Delta S = \frac{n(I_s - L_s - R_s)}{\rho_b \times A \times D}$$



$$\Delta S = nI_s / (\rho_b \times A \times D)$$

2

$$S = S_b + \Delta S$$



4

0.99km<sup>2</sup>

5% 20% 50% 100%

5 10 30

5.8-3

5.8-4

## 5.8-3

n ( )	(kg/m <sup>3</sup> )	(km <sup>2</sup> )	(m)	(mg)	*(mg/kg)	mg/kg)	(mg/kg)	(mg/kg)
		0.495				0.00001	0.00791	
5	1510	0.198	0.2	6980	0.0079	0.00003	0.00793	
		0.495				0.00001	0.00791	
		0.99				0.00001	0.00791	
		0.495				0.00002	0.00792	
10	1510	0.198	0.2	6980	0.0079	0.00005	0.00795	570
		0.495				0.00002	0.00792	
		0.99				0.00001	0.00791	
		0.495				0.00007	0.00797	
30	1510	0.198	0.2	6980	0.0079	0.00016	0.00806	
		0.495				0./.		

GB36600-2018

VOCs

**5.8.4**

1		20%	20%	0.06t	0.012		
			20%				
			20%	0.05t	0.01		
2			1%	0.01t	0.0001	10	
3		0.5%	25%	0.01t	0.03755	10	
				0.15t			
4	2-		0.5%	0.01t	0.00005	7.5	
5	MDI	B	43%	B 3t	1.29	0.5	
			105	20%	0.15t		0.03
			103	10%	0.15t		0.015
6	92#		/	/	0.05	2500	

## 5.9.2

1.6-1

3

## 5.9.3

1

“ ”

2- B MDI

5.9-2~5.9-6

5.9-2

32198

33645 33646

-18~23

23

3.2

3.3






## 5.9-6

			gasoline petrol
	C <sub>5</sub> H <sub>12</sub> -C <sub>12</sub> H <sub>26</sub>	CASNO.	8006-61-9
	72-170	UN	1203
	<-60		25 220
( =1)	0.70 0.79	kPa	40.5~91.2 37.8
	LD <sub>50</sub> 67000mg/kg( ) LC <sub>50</sub> 103000mg/m <sup>3</sup> 2 ( )		
			15
	7( )		-58~10
	41.8~46MJ/kg		
	1.3%~7.6%		

--	--	--

2

1

AB

2

B

B

MDI

3

5.9-7

5.9-7

1			MDI			
		AB	MDI			
2			MDI			

5.9.4

1

HJ169-2018

E

5.9-8

5.9-8

/	10mm	$1.00 \times 10^{-4}/a$
	10min	$5.00 \times 10^{-6}/a$
		$5.00 \times 10^{-6}/a$

2

5.9-9

5.9-9

1		MDI		$1.00 \times 10^{-4}/a$		
2		MDI		$1.00 \times 10^{-6}/a$		

5.9.5

5.9.5.1

1

2

5

F F.1

$$Q_L = C_d A \rho \sqrt{\frac{2(P - P_0)}{\rho} + 2gh}$$

—

0.5kg/s

—

110000Pa

—

101300Pa

—

0.8kg/m<sup>3</sup>

—

9.81m/s<sup>2</sup>

—

0.5m

—

0.5

—

0.02m<sup>2</sup>

=1.18kg/s 5

0.354t

3

20%

70.8kg



		(kg)	82	(m)	0.02
(kg/s)	0.5	(min)	5	(kg)	70.8
(m)	0.5	( / )	-	(kg)	693
	:	90	1.5m/s	25°C	50% F
		(mg/m <sup>3</sup> )	(m)		(min)
-1		11000	30		0.25
-1		4000	80		0.67
	-1-	-1-	-2-	-2-	-
	(min)	(min)	(min)	(min)	(mg/m <sup>3</sup> )
	-	-	-	-	-

-1s

p

30m

0.25min

- 0.5kg/s
  - 110000Pa
  - 101300Pa
  - 1.19kg/m<sup>3</sup>
  - 9.81m/s<sup>2</sup>
  - 0.5m
  - 0.5
  - 0.02m<sup>2</sup>
- =1.44kg/s 5 0.432t

**3 B**

**MDI**

B

MDI 35%

MDI

15.12kg

**4**

MDI

**5.9.5.3**

CO<sub>2</sub> CO

1

CO

VOCs

2

COD

§ 6.6

## 6

## 6.1

## 6.1.1

1

CO NO<sub>x</sub> MnO<sub>2</sub> SiO<sub>2</sub> Fe<sub>2</sub>O<sub>3</sub>

1 15m G1#

2

CO<sub>2</sub>

99.9%

+ +15m

6.1-1

94.7%

90%

GB16297-1996

6.1-1

		kg/h	kg/h	mg/m <sup>3</sup>		
		0.281	0.015	4.6		94.7%

6.1.2

1

VOCs

1 UV

+

1 15m

G2#

2

6.1-2

				70%~ 90%		70-90%
	700	RTO		98%		
	CO <sub>2</sub> H <sub>2</sub> O					
	250 ~500	RCO		95%		
				70%		

				70%		
	VOCs	UV-		60%~ 80%		
				65%		
				95%		
				98%		

1 " +UV + "

6.1-2 80.3%

GB3157-2015

## 6.1-2

		kg/h	kg/h	mg/m <sup>3</sup>		
		0.953	0.188	14.4		80.3%

A

B

+1 UV

+1

+1 15m

80%

-292

- 2924

-

"

+ "

80%

80%

## 6.1.3

## 6.1.4

15m

GB16297-1996

"

15 m"

15m

GB31572-2015 "

15m"

6.2

6.2.1

6.2.2

1

GB8978-1996

2

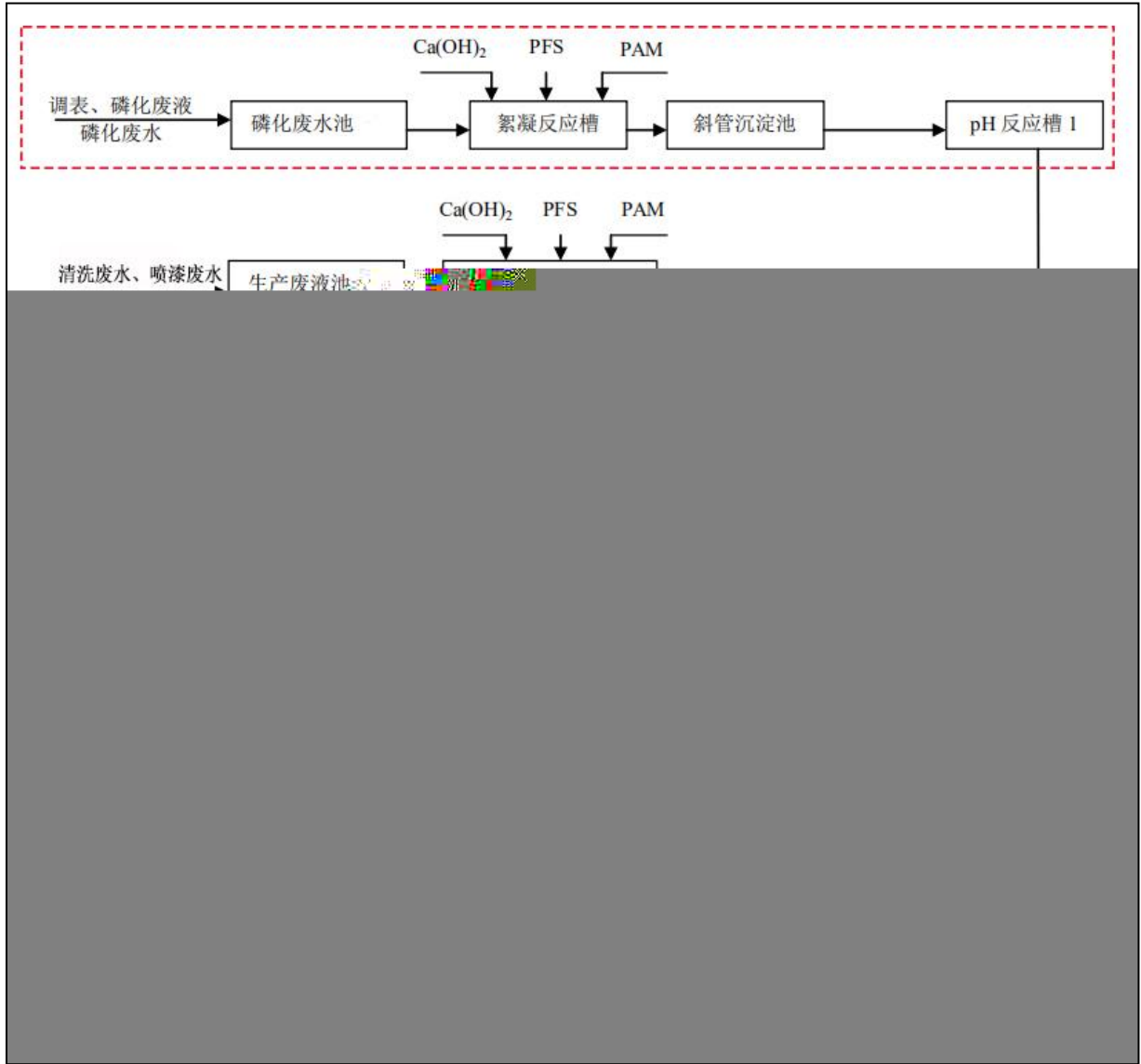
1

3m<sup>3</sup>/h 72m<sup>3</sup>/d

10m<sup>3</sup>/h 240m<sup>3</sup>/d

13m<sup>3</sup>/h 312m<sup>3</sup>/d “ + ”

6.2-1



6.2-1

2.2.2.3

GB8978-1996

2020 12 25 ~26

2.2.3.2

GB8978-1996

312m<sup>3</sup>/d

218m<sup>3</sup>/d

94m<sup>3</sup>/d

10m<sup>3</sup>/d

10.64%

SS COD

91450200794328218E001Q

6.2.3

1

2

2.2.2.3

GB8978-1996

2020 12 25 ~26

2.2.3.2

GB8978-1996

6.2.4

35 m<sup>3</sup>/d

190183m<sup>2</sup> A2/0

GB18918-2002 B

10 m<sup>3</sup>/d 15 m<sup>3</sup>/d 10 m<sup>3</sup>/d 2009

[2009]94

2008 2013

[2013]337 2018 2019

2019 9

91450200768942839U005Q

33.2 m<sup>3</sup>/d 1.8 m<sup>3</sup>/d

GB8978-1996

13.07m<sup>3</sup>/d

0.07%

COD SS

2020

COD

11.93mg/m<sup>3</sup> 0.24mg/m<sup>3</sup>

GB18918-2002

B

**6.3**

"

"

**6.3.1****6.3.2**

HJ610-2016

6.3-1

9

**6.3-1**

		6.0m K $1 \times 10^{-7}$ cm/s	Mb GB18598
		K $1 \times 10^{-7}$ cm/s	Mb 1.5m GB18598

## 6.4

- 1
- 2
- 3

GB12348-2008 3 4a

## 6.5

### 6.5.1

GB18599-2001

- 1
- 2
- 3

GB15562.2

**6.5.2**

(GB18597-2001)

1 ~1

6.5-1

**6.5-1**

**6.6**

**6.6.1**

1

2

3

4

**6.6.2**

1

2

2    165m<sup>3</sup> 65m<sup>3</sup>

3

4

GB18597-2001

**6.6.3**

---

---



---

---

			GB12348-2008 3 4

## 7

## 7.1

## 7.1.1

175

35

20%

7.1-1

## 7.1-1

	1	+1 15m	10
	1	+UV + +1 15m	10
			3
			0
			5
			5
			0
			2
			35

## 7.1.2

1

10

5%

$$C_1 = 1 - \frac{1}{n}$$

—

35

—

5%

n—

10

3.325 /

2

/

5%

1.75

3

2%                    0.7  
5.775     /

**7.1.3**

1

1.2

1.4

7.1-2

7.1-2

		t/a	kg	/	/
		0.2988	4	1.2	89.64
	COD	0.064	1	1.4	89.6
	BOD <sub>5</sub>	0.081	0.5		226.8
	SS	0.0766	4		26.81
		26.306	/	25 /	657.65
					1090.5

1090.5     0.11

7.1-3

		( / )	
1		0.11	7.1-2
2		16.08	$3.216 \times 10^5 \text{m}^3$ 0.5 /m <sup>3</sup>
		16.19	/

2

## 7.2

175

70

40.0%

## 7.3

## 7.4

## 7.4.1

$$Hz = (E_0 / E_R) \times 100\%$$

E<sub>0</sub> —E<sub>R</sub> —

35

175

20%

## 7.4.2

J<sub>x</sub>

$$J_x = E_i / E_z$$

E<sub>i</sub> —E<sub>z</sub> —

16.19

5.775

2.80



8

8.1

8.1



7

**8.1.3**

8.1-1

**8**

## 8.2-1

			mg/m <sup>3</sup>	t/a			mg/m <sup>3</sup>	t/a		
						%			mg/m <sup>3</sup>	
	G1#		69	0.332	+		6.9	0.0332	120	GB16297-1996
			/	0.309		+	/	0.125	1.0	
	G2#	VOCs	90	3.24		+UV	18	0.648	100	GB31572-2015
			/	0.584			/	0.361	1.0	GB16297-1996
		VOCs	/	0.36			/	0.36	10	(B37822-2019)
		VOCs	/	1.5297			/	1.5297	4.0	GB16297-1996
			/	0.2436			/	0.2436	1.2	GB16297-1996
			/	0.24			/	0.24	1.0	GB16297-1996
			/	0.063			/	0.063		
			COD	250	0.23			184	0.169	500
BOD <sub>5</sub>			150	0.138			62	0.057	300	
SS			100	0.092			21	0.019	400	
			25	0.023			23	0.021	-	
		COD	500	0.01			339	0.007	500	
		SS	200	0.004			21	0.0004	400	
		/	/	26.306		/	/			

## 8.2.2

8.2-2

8.2-2

		0.0332
	VOCs	0.648

## 8.2.3

—

“

”

## 8.3

## 8.3.1

## 8.3.2

HJ2.2-2018

8.3-1

8.3-1

		TSP	1 / 7		
		TVOC	/		

		pH	1 / 3 /		
	G1#		1 / 3 /		
	G2#	VOCs			
		VOCs			
		pH SS COD BOD <sub>5</sub>	1 / 3 /		
		pH SS COD BOD <sub>5</sub>			
		A	1		

## 8.4

8.4-1

“ ”

		/			
	+ +	1 1 15m	GB16297-1996		
	+UV +	1 1 15m	GB31572-2015	VOCs	
		1	GB8978-1996	COD <sub>cr</sub> BOD <sub>5</sub> SS	
		/	GB12348-2008 3 4	A	
		2	GB18597-2001	/	

9

9.1

2

3600

15000

175

35

20%

2020-450200-36-03-026064

9.2

9.2.1

2019

2019

SO<sub>2</sub> NO<sub>2</sub> PM<sub>10</sub>

CO<sub>24</sub>

95

O<sub>3</sub>

8

90

GB3095-2012

PM<sub>2.5</sub>

GB3095-2012

HJ2.2-2018

D

TVOC

2.0mg/m<sup>3</sup>

9.2.2

2020 10

19

GB 3838-2002

GB 3838-2002

GB 3838-2002

9.2.3

3

GB/T14848-2017

## 9.2.4

GB3096-2008

4a

GB3096-2008 3

## 9.2.5

GB36600-2018

## 9.3

## 9.3.1

1

VOCs

VOCs

6.9mg/m<sup>3</sup>

GB16297-1996

VOCS

18mg/m<sup>3</sup>

GB31572-2015

&amp;3.4 3.4-12

2

10m<sup>3</sup>/d3.07m<sup>3</sup>/d

GB8978-1996

&amp;3.4 3.4-12

3

GB12348-2008 3 4a

4

AB

26.306t/a

**9.4****9.4.1****9.4.1.1**

				15.0327 $\mu\text{g}/\text{m}^3$		
67m	7.51%	PM <sub>10</sub>	PM <sub>2.5</sub>		28.818 $\mu\text{g}/\text{m}^3$	14.409 $\mu\text{g}/\text{m}^3$
		43m		6.4%		
GB3095-2012			TVOC		95.8034 $\mu\text{g}/\text{m}^3$	
	67m		7.98%			
HJ2.2-2018	D					
	15.33335 $\mu\text{g}/\text{m}^3$			67m	0.77%	
		P244				

**9.4.1.2**

	GB8978-1996				2020	
COD				GB18918-2002		B

**9.4.1.3****9.4.1.4**

GB12348-2008 3

GB12348-2008 4a

9.4.1.5

9.4.1.6

9.4.1.7

9.5

9.5.1

1 15m

G1#

90%

GB16297-1996

8

— +1 UV

Mb 6.0m

 $1 \times 10^{-7} \text{cm/s}$ 

Mb 1.5m

 $1 \times 10^{-7} \text{cm/s}$ **9.5.4****9.5.5****9.6****9.7**

175

35

20%

**9.8****9.9**

" "