

---

	2111-320161-89-01-695834		
			17849986616
	<u>118</u>	<u>44</u>	<u>21.347</u>
		<u>32</u>	<u>9</u>
			<u>43.782</u>
	Q8421		84—108 842— 20
/		/	2021 3
	30000		60
%	0.2		24
		m <sup>2</sup>	12999
	NJJBc020		2015
	NJJBc020		
	2015	(	2016 41 )
	Q8421		
	320111202100165		Aa
		NJJBc020	
		Rc	

2019

2021

2018 32

" "

" "

2020 49 1

"

"

" "

2020

49

" "

" "



		5	
		2021	97.3%
		93.8%	
			2022
1	2019	2021	
2			
3		2012 2012	
4	2013	2013	
5		2022	
6		2022	
7		2022	
8		2015	
	251		
		“	”



4.3.2		
4		
5.4.2		
5.4.4		
5.4.5		
5.7		
1h		1h
2-8mg/L	2-8mg/L	
GB18486-2005		









GB18466-2005 2

(GB/T 31962-2015) 1 B

GB18918-2002 A

3

10 /

4

5

$1.46 \times 10^4 \text{m}^3/\text{a}$

---

---

14919t/a

---

11756t/a

1

---

10 /

---

$1.46 \times 10^4 \text{m}^3/\text{a}$

---

/

---

“A/O+ + ”

---

---

+1 15m

2

20m<sup>2</sup>

---

2-4

1		/	1	
2		/	1	
3		/	1	
4	24	/	1	
5		/	1	
6		/	1	
7		/	1	
8		/	1	
9	B	/	2	
10		/	1	
11		/	2	
12		/	2	
13	X DR	/	1	
14	X CT	/	1	
15		/	1	
16		/	1	
17		/	1	
18		/	1	
19		/	1	
20		/	3	
21		/	1	
22		/	2	
23		/	2	
24		/	1	
25		/	1	
26		/	1	
27		/	2	
28		/	2	
29		/	1	
30		/	1	
31		/	1	
32		/	1	
33		/	2	
34		/	1	

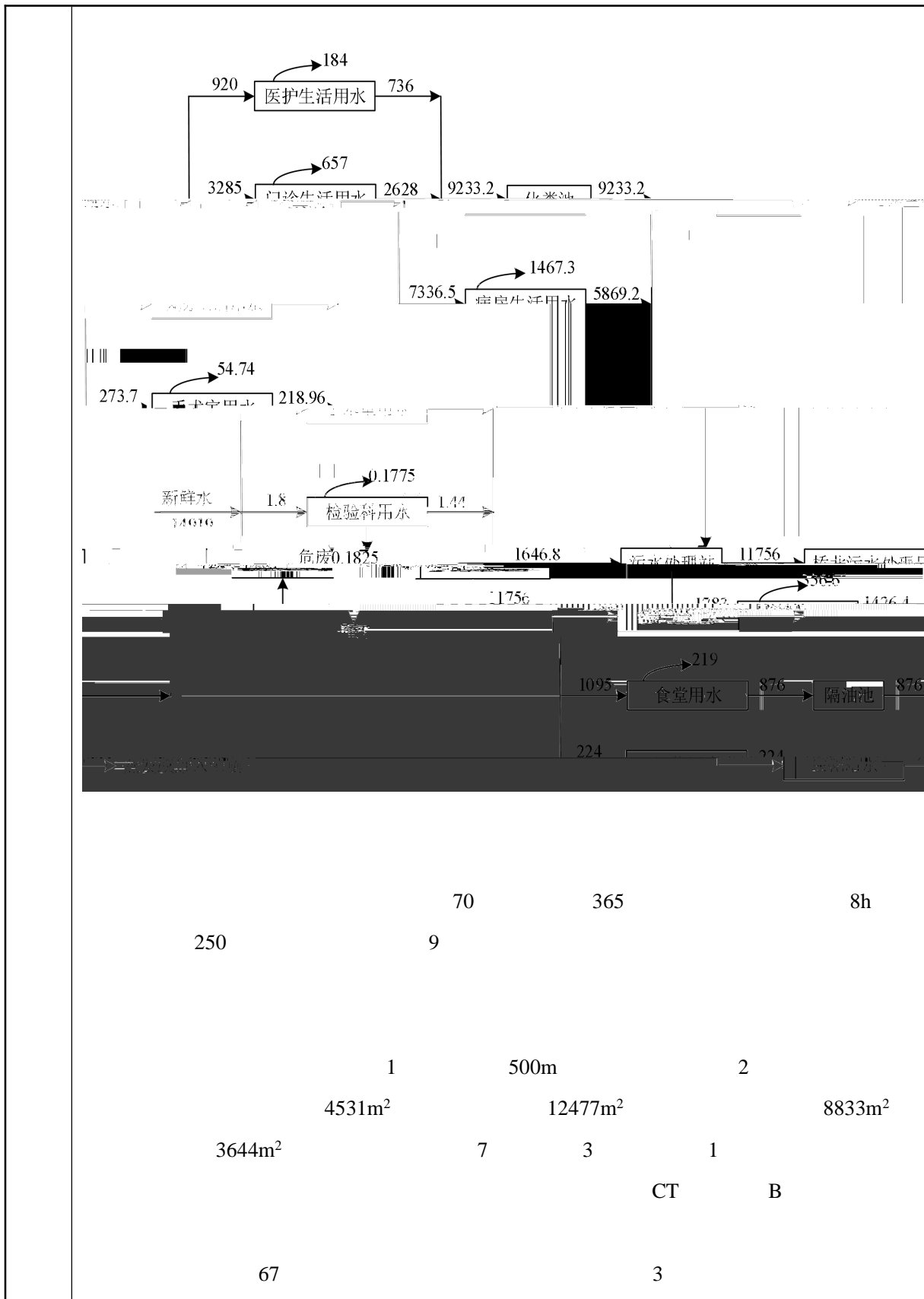
2-5

1	75%	720	60mL	24000mL
2	84	600	518g	51800g
3		840	100mL	40L
4		11200	7.5#	2000
5		15200	20	6000
6		1000	12*100	1000
7		50	100mL	20
8		2400	0.2g*20	600
9		10	500mL	10
10		2200	0.6#	500
11		2200	B	500
12		520		200
13		4000	15cm	1000
14		25000	7	5000
15		15650	2mL	2000
16		24000	20mL	5000
17		300	10mL	150
18		22000	100 /	200
19		50	50mL	10
20	M_5D	35	20L	5
21		3	4000mL	1
22	M_53LEOII	3	800mL	1
23	M_53LH	3	2000mL	1
24	c	5000	25 /	100

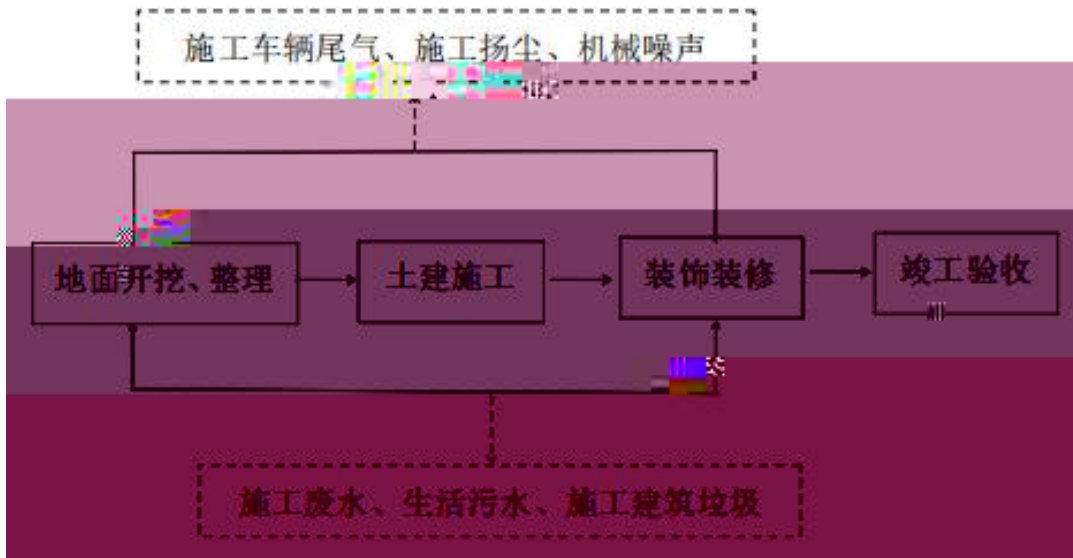
2-6

1		1 =0.79	-114.1 12	363
---	--	---------	--------------	-----

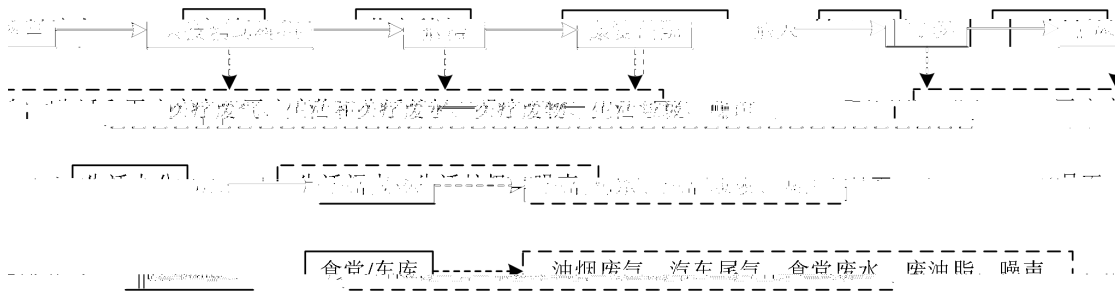
2-1



		70	365	8h
250		9		
	1	500m	2	
	4531m <sup>2</sup>	12477m <sup>2</sup>		8833m <sup>2</sup>
3644m <sup>2</sup>		7	3	1
			CT	B
67			3	

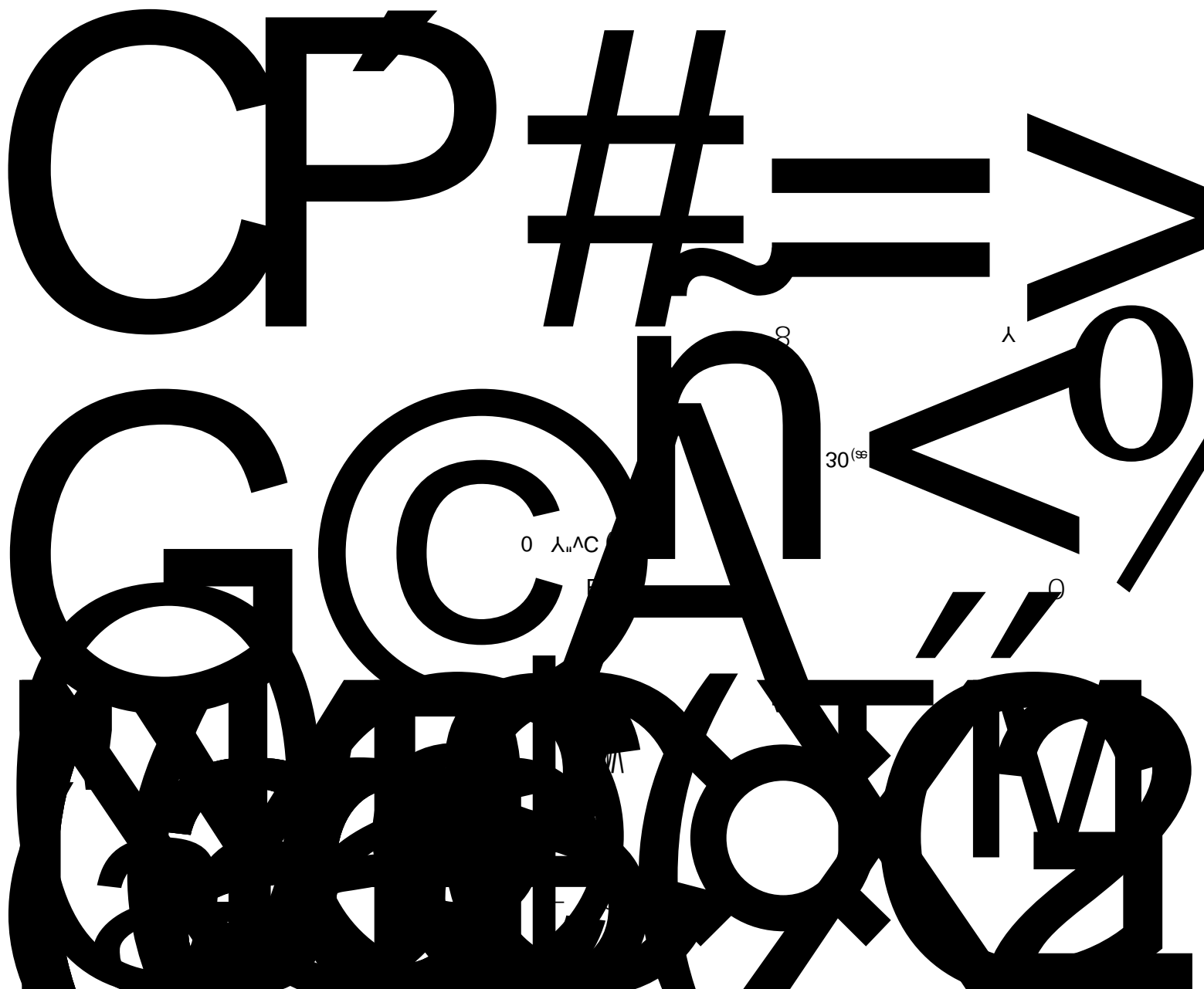


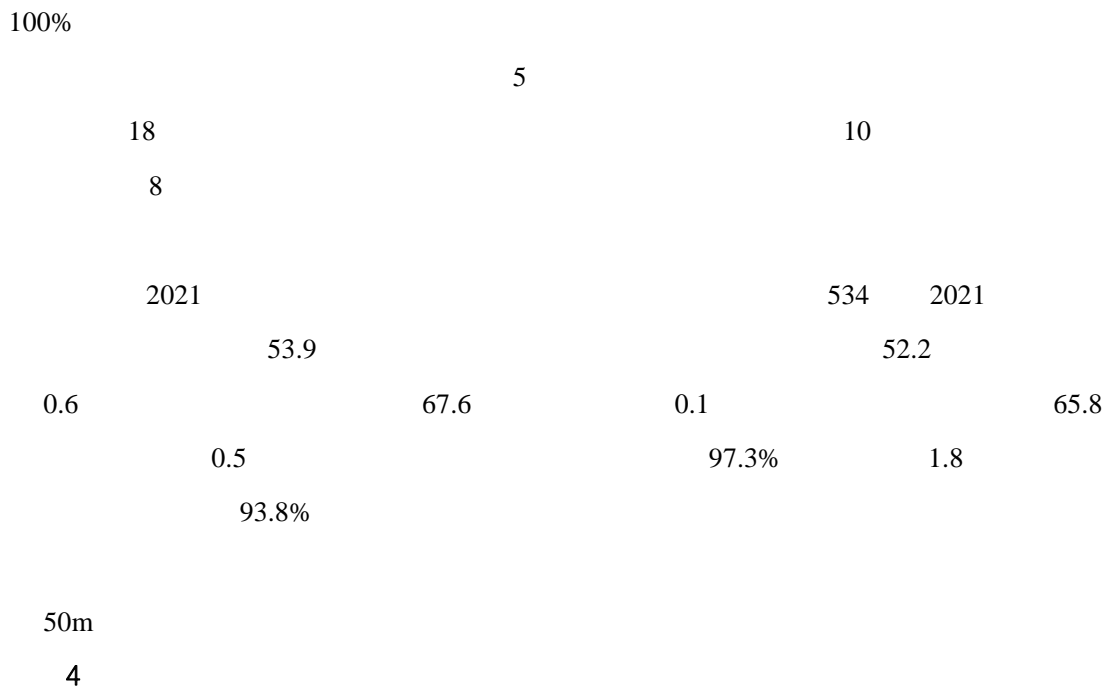
2-3



	W1		COD SS		
	W2		COD SS		
	W3		COD SS		
	G1				
	G2				
	G3				+15m
	G4		NMHC NO <sub>2</sub> CO		
	S1				
	S2				
	S3				
	S4				
	S5				
	S6				
	S7				

2021	300
4	82.2%
91	0.9
4	65
	61
	29μ g/m <sup>3</sup>
	33μ g/m <sup>3</sup>
	6μ g/m <sup>3</sup>
	14.3% CO
95	1.0mg/m <sup>3</sup>
	9.1% O <sub>3</sub>
	8
	52
	14.2%





1

500

3-2

GB14554-93 1 2

GB18466-2005 3

		15	4.9		1.5	GB14554-93
			0.33		0.06	
			2000		20	
					1.0	GB18466-2005
					0.03	
					10	

DB32/4041-2021 3

VOCs

DB32/4041-2021 2

GB18466-2005 2

GB18918-2002 A

1 pH

	40	45
	40	45
	/	50
	/	40
	50	55
	30dB	

1  
380  
2003 206  
36

2  
GB18599-2020  
2021  
GB18597-2001  
HJ2025-2012

		0.0063	0.005	/	0.0013
		0.00027	0.00022	/	0.00005
		0.065	0.049	/	0.016
		0.216	0	/	0.216
	NH <sub>3</sub>	0.0007	0.0004	/	0.0003
	H <sub>2</sub> S	0.00003	0.00002	/	0.00001
	CO	0.523	0	/	0.523
	NO <sub>2</sub>	0.010	0	/	0.010
		15770.06	0	15770.06	15770.06
	COD	6.312	2.367	3.945	0.789
	SS	4.734	3.789	0.945	0.158
	NH <sub>3</sub> -N	0.706	0.228	0.478	0.079
	TP	0.079	0	0.079	0.008
	TN	0.789	0.311	0.478	0.237
		0.292	0.219	0.073	0.003
		2.66×10 <sup>11</sup> MPN	/	5000MPN/L	1000MPN/L
		74.46	74.46	/	0
		36.5	36.5	/	0
		1.0	1.0	/	0
		61.7125	61.7125	/	0
		0.5	0.5	/	0
		30.96	30.96	/	0
		15.16	15.16	/	0
1		0.0013t/a	0.00005t/a		
2			15570.06t/a	COD3.945t/a	SS 0.945t/a
		0.478t/a	0.079t/a	0.478t/a	0.073t/a
	15570.06t/a	COD0.789t/a	SS 0.158t/a	0.079t/a	0.008t/a
		0.237t/a	0.003t/a		
3					
		GB/T 4754-2017		Q8421	
				2019	









	EPA				1gCOD
	0.0031gNH <sub>3</sub>	0.00012g	H <sub>2</sub> S		COD
		0.007t/a		0.0003t/a	2.367t/a
				2013 197	"
	"				
	1			90%	
1000m <sup>3</sup> /h		80%	1	15m	DA001
				60%	
		GB18466-2005	3		
				4.1-2	
	NH <sub>3</sub>	0.007	0.0063	0.0007	8760
	H <sub>2</sub> S	0.0003	0.00027	0.00003	
			63	7	56
				5km/h	
	NMHC			NO <sub>2</sub> CO	
a					
				4.1-3	

		NMHC	NO <sub>2</sub>
	191	24.1	22.25

b

5km/h

1138m

2.5min

5min

c

1.6

90 /d

d

1187.94m<sup>2</sup>

3.5m

6 /h

63714m<sup>3</sup>/h

e

0.2L/km

5km/h

2.78×10<sup>-4</sup>L/s

g=fmt

f

g/L

m

L/s

t

s

0.083L

CO NMHC NO<sub>2</sub>

15.92g 2.00g 1.48g

4.1-4

MM

NH<sub>3</sub> 1000 0.72 0.0007 0.0063 80 0.144 0.00014 0.0013 15 0.3 25 DA001

v

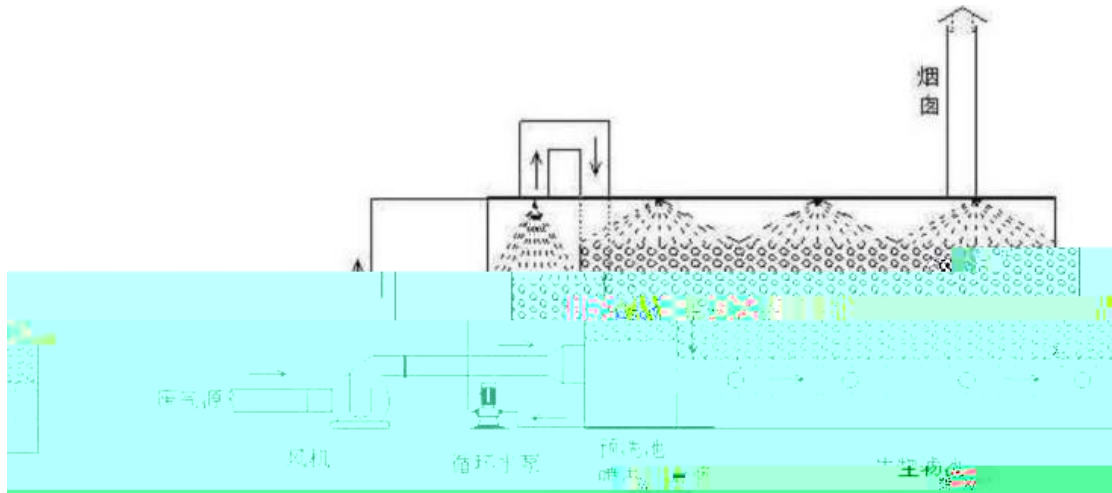
50%

DA001		NH <sub>3</sub>	0.36	0.00035	0.5	1	
		H <sub>2</sub> S	0.015	0.000015	0.5	1	

0~40

5

20~35



90%

HJ1105—2020

90%

90%

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

1	/	/	/	/	/
		/			/

1	DA001	NH <sub>3</sub>	0.144	0.00014	0.0013
		H <sub>2</sub> S	0.006	0.000006	0.00005
		NH <sub>3</sub>			0.0013
		H <sub>2</sub> S			0.00005
		NH <sub>3</sub>			0.0013
		H <sub>2</sub> S			0.00005

75%

GB18483-2001

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

DB32/4041-2021

GB14554-93

GB18466-2005 3

HJ819-2017

HJ1105-2020

	DA001		1 /	GB14554-93
			1 /	GB18466-2005 3
			1 /	DB32/4041-2021
			1 /	

		15 L/	·		200		1095t/a
	0.8				876t/a		
		36L/	·		250		
3285t/a		0.8			2628t/a		
		67		300L/	·d		
	7336.5t/a		0.8			5869t/a	
	3			250L/	·d		
273.7t/a		0.8		219t/a			
					0.005t/d		1.8t/a
				0.1			0.8
	1.5t/a						
					0.02m <sup>3</sup> /	0.023m <sup>3</sup> /	0.012m <sup>3</sup> /
	67				1345t/a		
30kg	40L/kg			438t/a			1783t/a
0.8				1426t/a			
		1659.13m <sup>2</sup>					2012
	1 4	0.6L/m <sup>2</sup> ·		2 3	2L/m <sup>2</sup> ·		2
104				224t/a			
				14919t/a		11756t/a	
	4.2-1						
					t/a		t/a
1		36L/	·	70	920	0.8	736
2		15 L/	·	200	1095	0.8	876
3		36L/	·	250	3285	0.8	2628

4		300L/ .d	67	7336.5	0.8	5869.2
5		250L/ .d	3	273.7	0.8	218.96
6		0.005t/d	365d	1.8	0.8	1.44
7		0.055m <sup>3</sup> /	67	1345	0.8	1076
		40L/kg	30kg	438	0.8	350.4
8		0.6L/m <sup>2</sup> ·	1659.13m <sup>2</sup>	224	0	0
		2 L/m <sup>2</sup> ·	1659.13m <sup>2</sup>			
9		/	/	14919	/	11756

GB18466-2005 2

(GB/T

31962-2015) 1 B

GB18918-2002 A

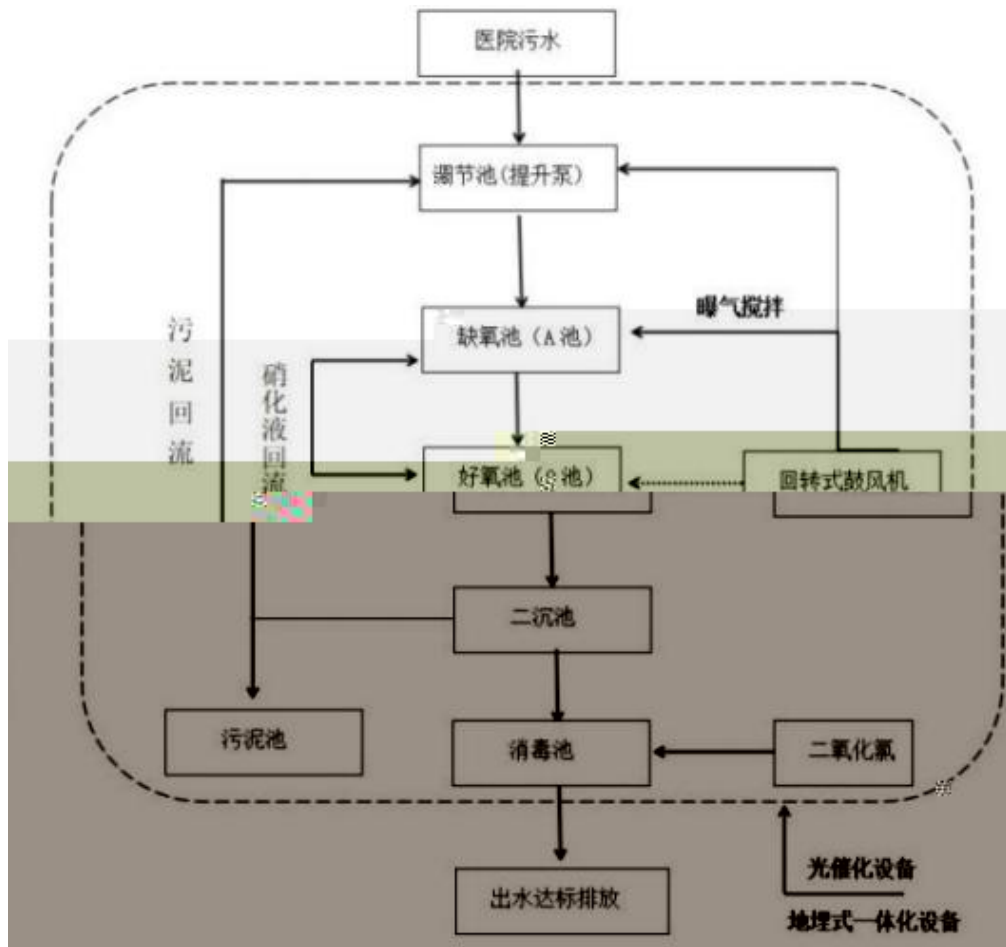
OD 00 .693

9233.  
2

GB18466-2005 2

GB18918-2002 1 A

" + +A/O+ + "



b

c

66.7

d

NO<sup>2-</sup> NO<sup>3-</sup> N<sub>2</sub>

a

b

c

A B

mg/L	400	300	45	1.6×10 <sup>8</sup> MPN/L
mg/L	350	240	40	/
%	12.5	20	10	/
mg/L	350	240	40	/
mg/L	180	50	22	/
%	48.6	80	45	/
mg/L	/	/	/	

	%	/	/	/	99.99%
	%	55	85	50	
	mg/L	250	60	45	5000MPN/L

11 m<sup>3</sup>/d  
0.029%

20 m<sup>3</sup>/d  
11756m<sup>3</sup>/a 32.2m<sup>3</sup>/d

9 m<sup>3</sup>/d

HJ819—2017  
HJ1105—2020

	PH	1	/12
	COD SS	1	/
		1	/
	NH <sub>3</sub> -N TP TN	1	/

4.3-1

	80~85		
	85~95		
	85~90		

80 90dB A

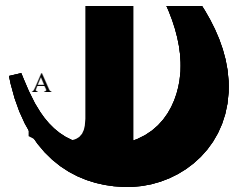
63Hz 8KHz

8

$Lp_r$

$$Lp_r = Lw + Dc - A$$

$$A = A_{div} + A_{at}$$

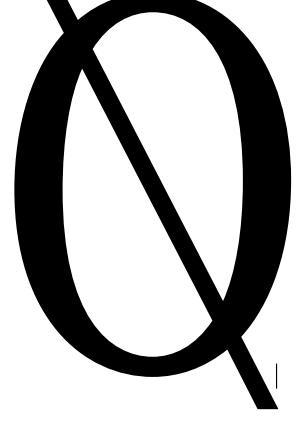


LA r =LAW-DC-A LA r =LA r0 -A

500HZ

Lp1 Lp2

LP2pp



$L_w$  ——— S dB  
 $L_{p2}$  T ——— dB  
 $S$  ———  $m^2$

A

A

$$L_A(r) = L_A(r_0) - A_{div}$$

$L_A(r)$  ——— r A dB A  
 $L_A(r_0)$  ———  $r_0$  A dB A  
 $A_{div}$  ——— dB

$$A_{div} = 20 \lg\left(\frac{r}{r_0}\right)$$

$A_{div}$  ——— dB  
 $r_0$  ——— m  
 $r$  ——— m



	40.53	60 50	
	38.02		
	39.38		
	40.35		

X=0 Y=0 Z=0

GB12348

2008 2

A

5m/s

1m

1.2m

70

1.0kg/ p·d

25.55t/a

2kg

67

48.91t/a

74.46t/a

0.65kg/ /

67

15.895t/a

0.5kg/ /

250 /

45.625t/a

61.52t/a

0.1825t/a

0.01t/a

0.1925t/a

61.7125t/a

1					74.46		/	GB34330-2017
2					36.5		/	
3					1.0		/	
4					61.7125		/	
5					0.5		/	
6					30.96		/	
7					15.16		/	

	HW01	831-001-01 831-002-01 831-003-01 831-004-01 831-005-01	61.7125				30d	T,In
	HW01	831-001-01	0.5				30d	In
	HW01	831-001-01	30.96				30d	In
	HW01	831-001-01	15.16				30d	In

1

2

GB18597-2001

2019 327

2019.9.24

”



HJ 964-2018 A.1

HJ610-2016

A

161

1

2

3

4

5

1



( )

, 30 3

”

,

a a j c

10%

20

:

119 120

500m



