



	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 ²	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

20m²

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	

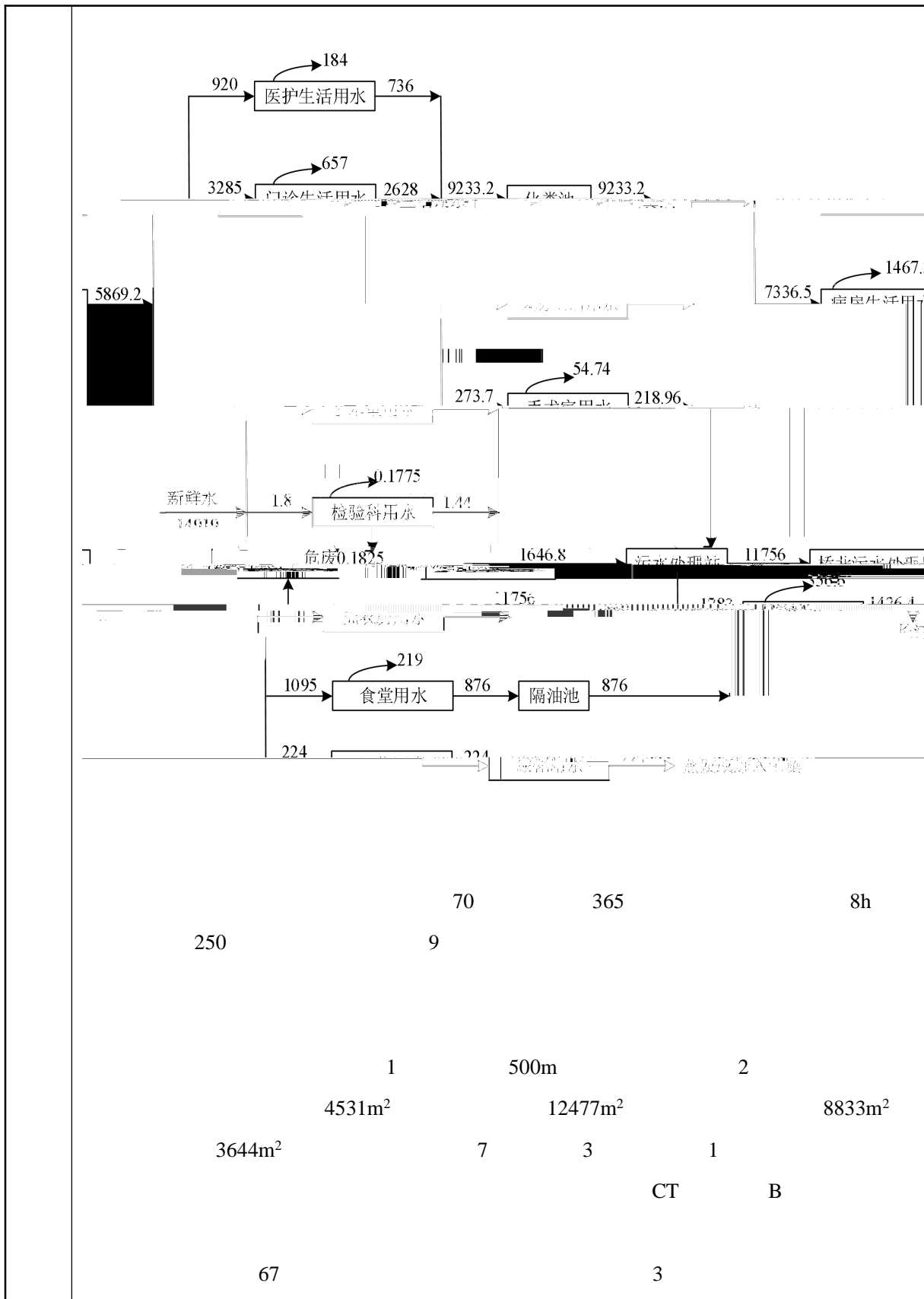
2-5

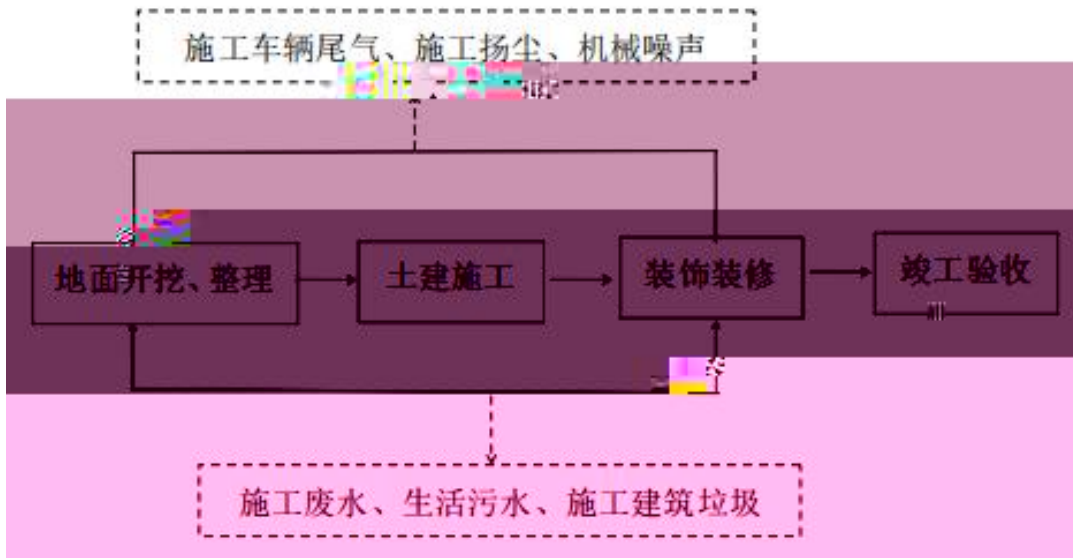
1	75%	720	60mL	24000mL
2	84	600	518g	51800g
3		840	100mL	40L
4		11200	7.5#	2000
5		15200	20	6000
6		1000	12*100	1000
7		50	100mL	20
8		2400	0.2g*20	600
9		10	500mL	10
10		2200	0.6#	500
11		2200	B	500
12		520		200
13		4000	15cm	1000
14		25000	7	5000
15		15650	2mL	2000
16		24000	20mL	5000
17		300	10mL	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

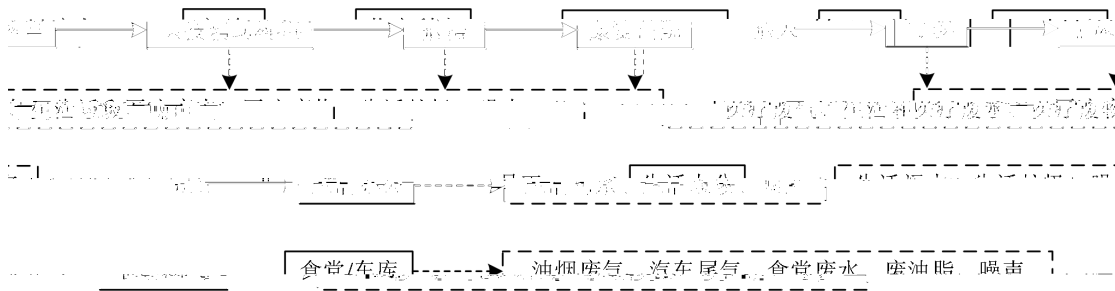
1				
			-114.1	
		1 =0.79	12	
		363		

2-1





2-3



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

	2021				300
	4	82.2%	0.9		
91	6		65	61	
4		O ₃ PM _{2.5}		PM _{2.5}	29μ g/m ³
		6.5% PM ₁₀	56μ g/m ³	NO ₂	33μ g/m ³
		8.3% SO ₂	6μ g/m ³	14.3% CO	
95	1.0mg/m ³		9.1% O ₃	8	52
	14.2%				

ΕΙ Δ

8

λ

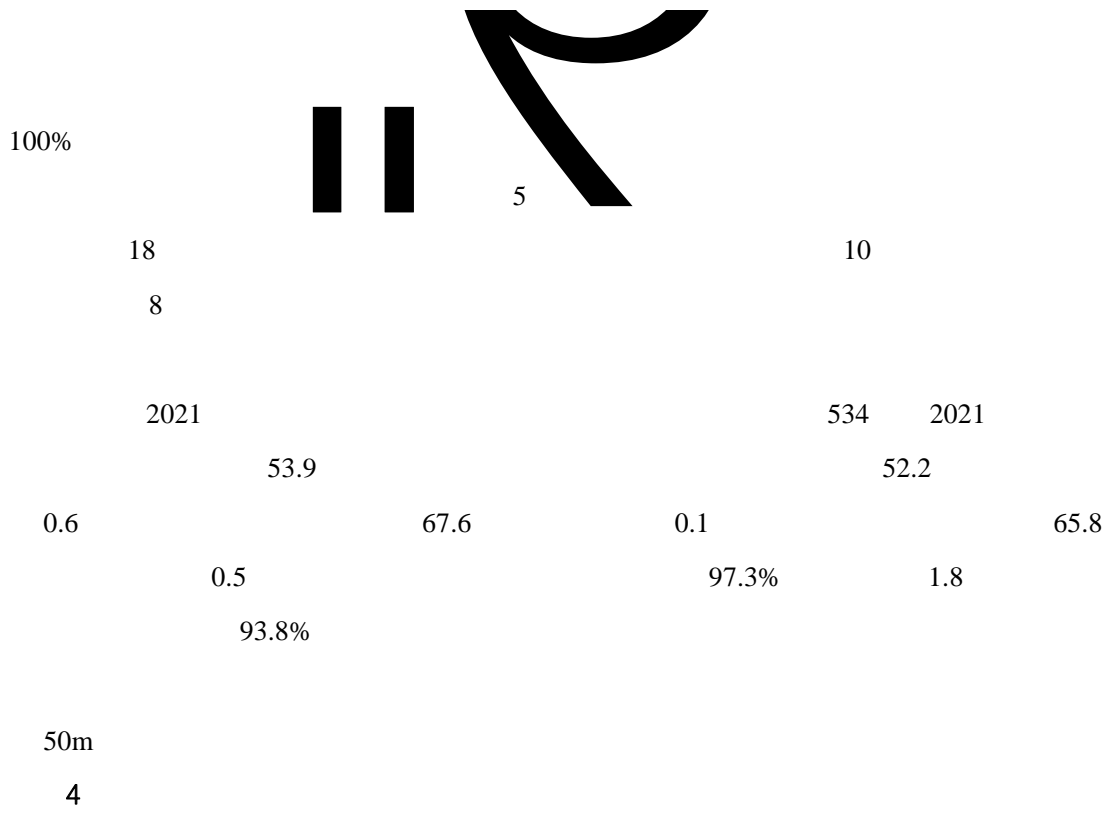
30^(ss)

0 λ,ΛC (ss)

Ε

0





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 ₃	0.0007	0.0004	/	0.0003
	H ₂ S	0.00003	0.00002	/	0.00001
	CO	0.523	0	/	0.523
	NO ₂	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 ₃ -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 ¹¹ 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
		0.003t/a			0.237t/a
3					
		GB/T 4754-2017		Q8421	
				2019	

		NMHC	NO ₂
	191	24.1	22.25

b

5km/h

1138m

2.5min

5min

c

1.6

90 /d

d

1187.94m²

3.5m

6 /h

63714m³/h

e

0.2L/km

5km/h

2.78×10⁻⁴L/s

g=fmt

f

g/L

m

L/s

t

s

0.083L

CO NMHC NO₂

15.92g 2.00g 1.48g

4.1-4

MM

NH₃ 1000 0.72 0.0007 0.0063 80 0.144 0.00014 0.0013 15 0.3 25 DA001

50%

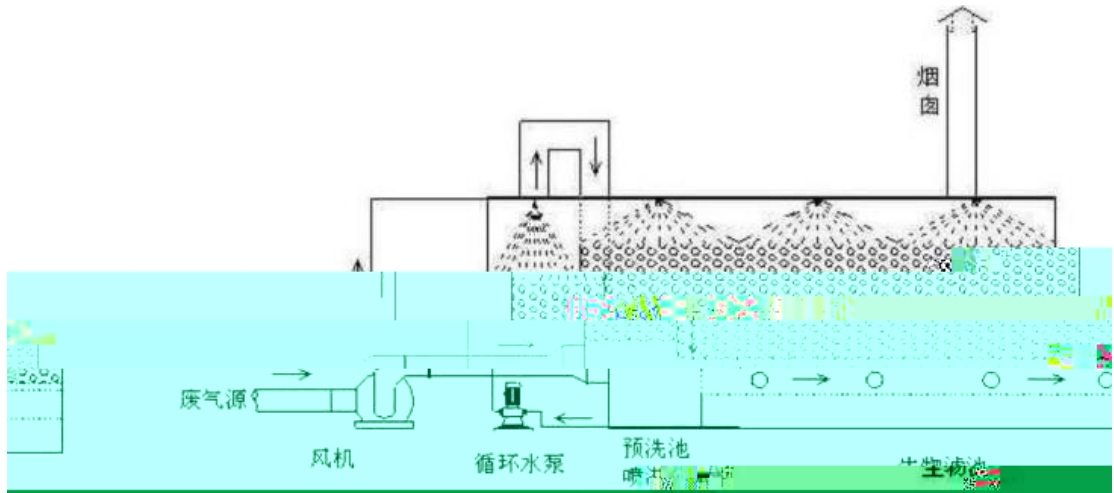
DA001		NH ₃	0.36	0.00035	0.5	1	
		H ₂ S	0.015	0.000015	0.5	1	

ॐॐॐॐॐॐॐॐ

0~40

5

20~35



90%

HJ1105—2020

90%

90%

2000m³/h

1	/	/	/	/	/
		/			/

1	DA001	NH ₃	0.144	0.00014	0.0013
		H ₂ S	0.006	0.000006	0.00005
		NH ₃			0.0013
		H ₂ S			0.00005
		NH ₃			0.0013
		H ₂ S			0.00005

! - 1 +
M

! 0

! 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

1 v \$ A 0 T

		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 ³ /	0.023m ³ /	0.012m ³ /
	67				1345t/a		
30kg	40L/kg			438t/a			1783t/a
	0.8			1426t/a			
				1659.13m ²			2012
	1	4	0.6L/m ² ·	2	3	2L/m ² ·	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 ³ /	67	1345	0.8	1076
		40L/kg	30kg	438	0.8	350.4
8		0.6L/m ² ·	1659.13m ²	224	0	0
		2 L/m ² ·	1659.13m ²			
9		/	/	14919	/	11756

GB18466-2005 2

(GB/T

31962-2015) 1 B

GB18918-2002 A

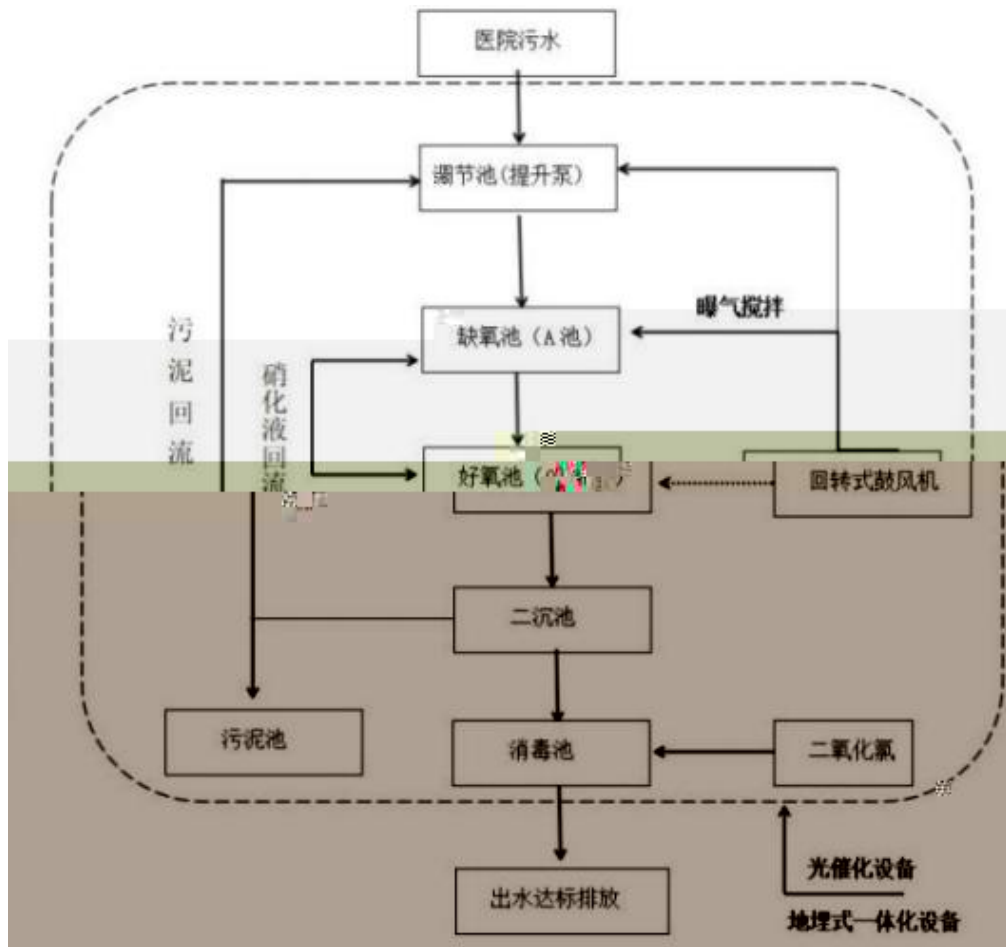
OD 00 .693

9233.
2

GB18466-2005 2

GB18918-2002 1 A

" + +A/O+ + "



b

c

66.7

d

NO²⁻ NO³⁻ N₂

a

b

c

A B

mg/L	400	300	45	1.6×10 ⁸ 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 m³/d
0.029%

20 m³/d
11756m³/a 32.2m³/d

9 m³/d

HJ819—2017
HJ1105—2020

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

4.3-1

	80~85		
	85~95		
	85~90		

80 90dB A

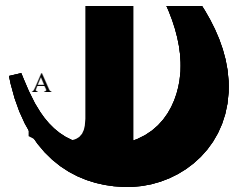
63Hz 8KHz

8

$L_p(r)$

$$L_p(r) = L_w + Dc - A$$

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



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

500HZ

Lp1 Lp2

LP2pp

L_w —
 L_{p2} T —
 S — m^2



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

"

20m ²										29.5t																																																																					
1										61.712 5										HW01										831-001-01 831-002-01 831-003-01 831-004-01 831-005-01										0.6										30d										20m ²																			
2										0.5										HW01										831-001-01										0.3										30d																													
3										30.96										HW01										831-001-01										3										30d																													
4										15.16										HW01										831-001-01										2										30d																													
3										HW01										HW01										HW01										HW01																																							
1										8										025-8655 3600										JSNJJBX Q0116CSI 0061										HW01 :18000 /										2019-01										2023-12																			
4																																																												(HJ 2025-2012)										B									
																																																																						5									



HJ 964-2018 A.1

HJ610-2016

A

161

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a a j c

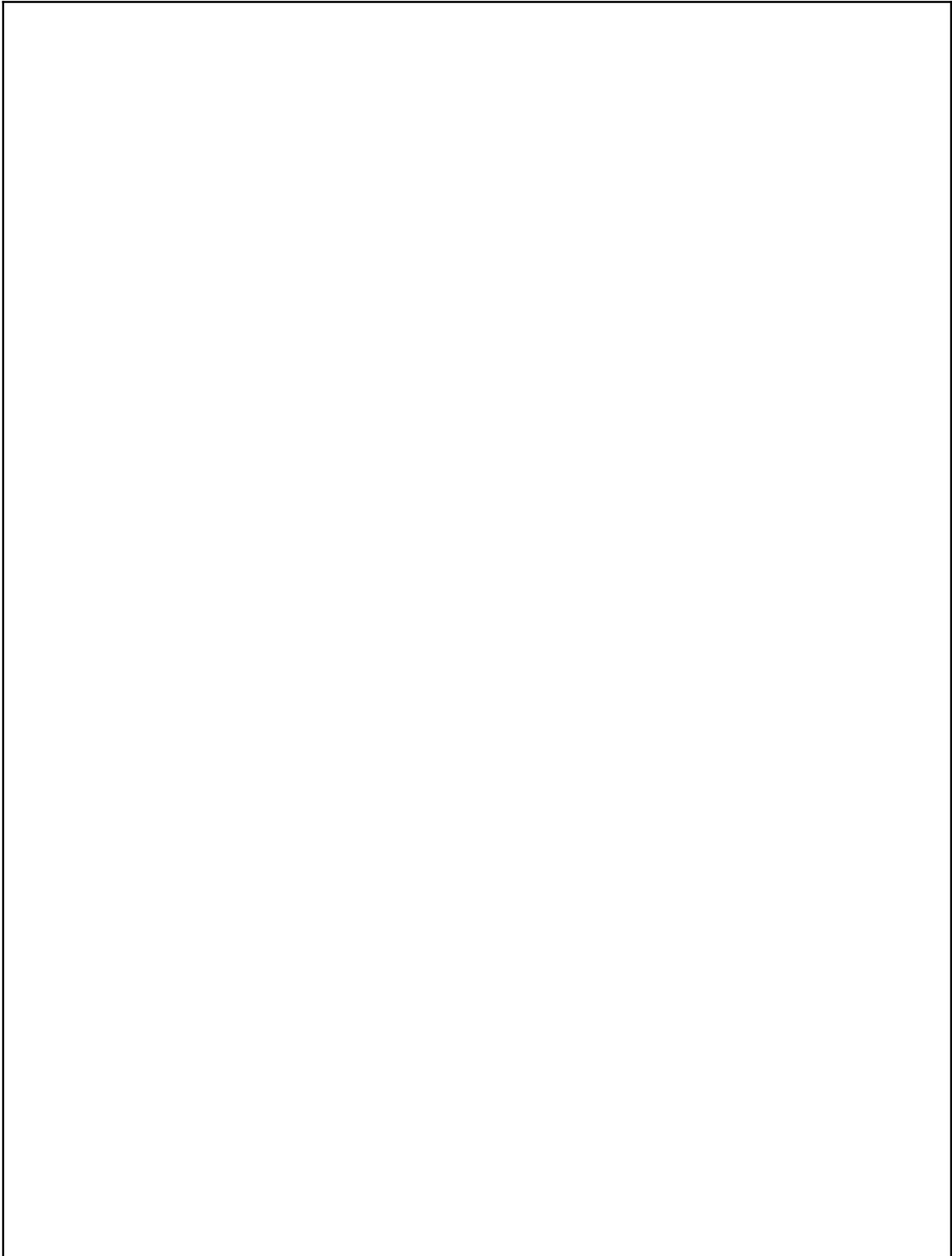
10%

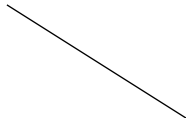
20

:

119 120

500m





	/	/	/	0.0013	0.0013	+0.0013
	/	/	/	0.00005	0.00005	+0.00005
	/	/	/	0.016	0.016	+0.016
	/	/	/	0.216	0.216	0.216
NH ₃	/	/	/	0.0003	0.0003	0.0003
H						

13.00 ESTO VE

9V 9 +

0 030

