

一、建设项目基本情况

	2111-320161-89-01-695834		
			17849986616
	118	44	21.347
		32	9
	43.782		
	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

2018 74

9600

2020 1)

(

"

	<p style="text-align: center;">“ ”</p> <p style="text-align: center;">2020 49 1</p> <p style="text-align: center;">“ ”</p> <p style="text-align: center;">“ ”</p> <p style="text-align: center;">2020</p> <p style="text-align: center;">“ ”</p> <p style="text-align: center;">“ ”</p>	
49		
	1	
	2	2018
	3	2014-2030
	4	2015 251
		“ ”
	5	
	1	
	2	

		3	
		1	
		2	
		1	
		2	
		3	
		" "	
		2021	
		O ₃	
		2021	2021
		PM _{2.5} O ₃ VOCs NOx	
		2021 11 10	" "
			GDP
		12% GDP	
20%		PM _{2.5}	
		2021	2021
		" "	42
			100%

		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		
			“ ”

“ ”

GB18486-2005

1.0.2		
1.0.3		
6.0.1		
7.0.1		
7.0.2		
7.0.3	48.58t/d 80t/d	
7.0.4		
4.2.1		
3		
4.3.1		

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

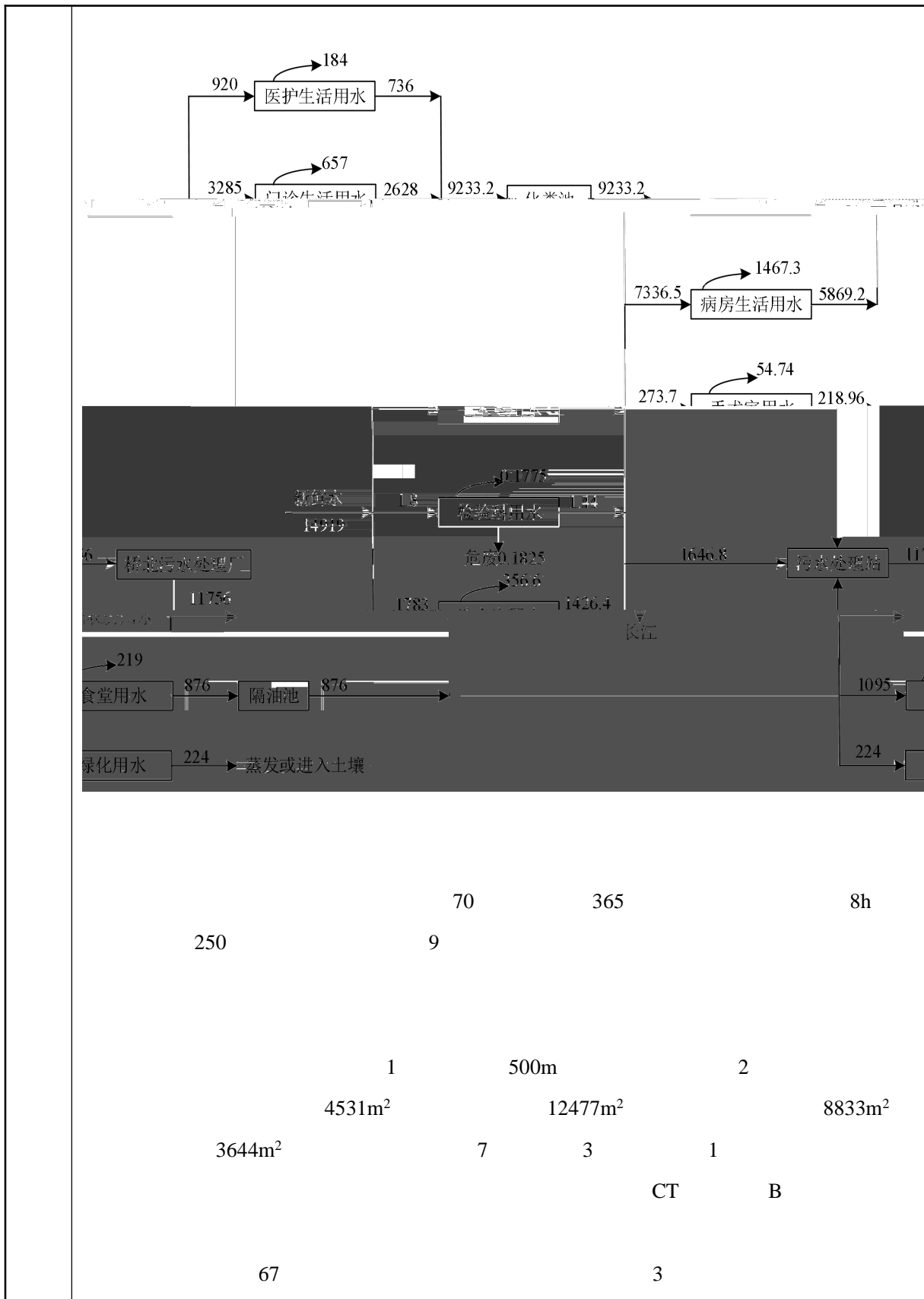
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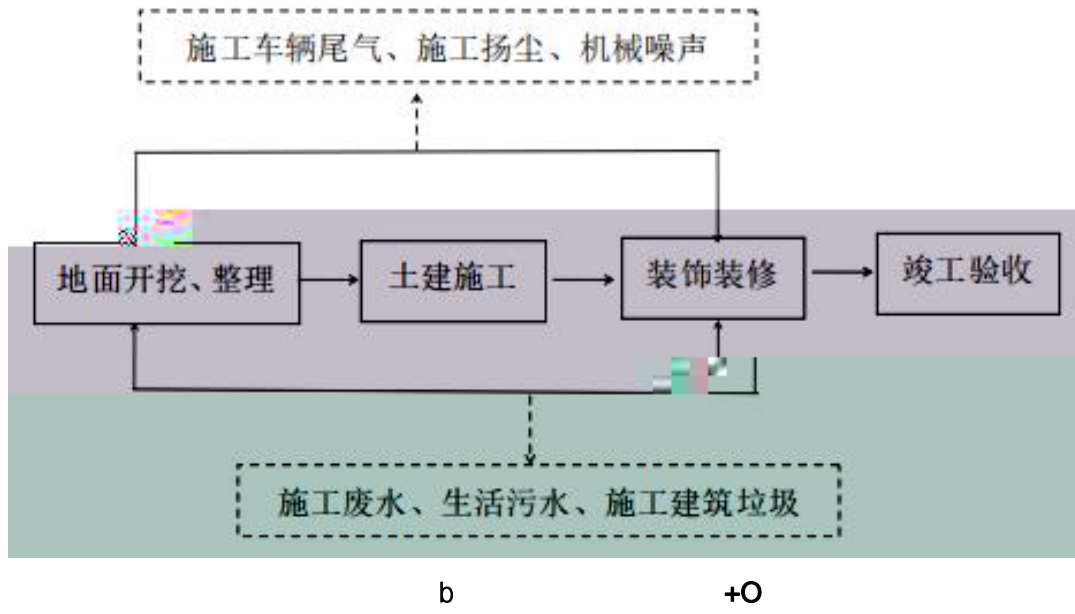
$1.46 \times 10^4 \text{m}^3/\text{a}$

1			14919t/a	
			11756t/a	
			10 /	
			$1.46 \times 10^4 \text{m}^3/\text{a}$	
			/	
	2			“A/O+ + ”
			+1 15m	
				20m ²

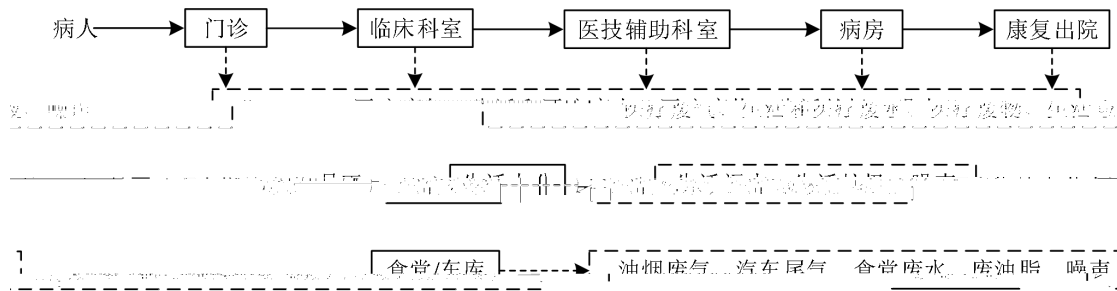
2-4

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	





2-3



	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			

三、区域环境质量现状、环境保护目标及评价标准

HJ 2.8

	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
	14.2%	2.2			52

PM _{2.5}		29	35	82.5	86
PM ₁₀		56	70	80	
SO ₂		6	60	10	
NO ₂		33	40	82.5	
CO	95	1000	4000	25	
O ₃	90	8h	-	160	-

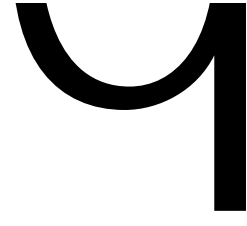
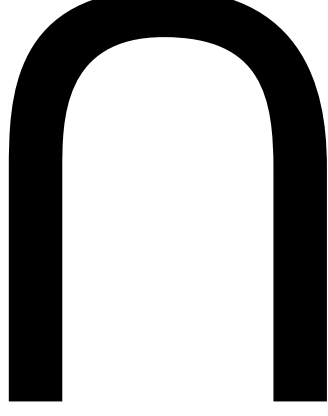
O₃

2020-2021

2020 62

<2021-2022

EQ 人 ь ь ED... α



100%

5

18

8



10

2021

534

2021

53.9

52.2

0.6

67.6

0.1

65.8

0.5

97.3%

1.8

93.8%

50m

4

1

500

3-2

	118.7480878	32.1589017		2000	GB309 5-2012	SE	280
	118.7461137	32.1584657		1100		SE	130
	118.7427020	32.1559406		800		S	400
	118.7404489	32.1572668		900		SW	320

2

50m

500m

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

		10
		0.12
		0.5
NMHC		4

NMHC	6	1h	
	20		

GB18483-2001 "

"

	1	3	3	6
mg/m ³	2.0			6
%	60	75	85	GB18483-2001

GB18918-2002 A

1	pH	6 9	/	6.5 9.5	6 9
2	COD	250	250	500	50
3	SS	60	60	400	10
4	*	45	/	45	5(8)
5	P *	8	/	8	0.5
6	*	70	/	70	15
7		20	/	100	1
7	MPN/	5000	/	5000	1000 /L
8		1h	/	2	1.5h
		2~8mg/L		1.5h	2~8mg/L

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

1
380
2003 206
36

2
GB18599-2020
2021
GB18597-2001
HJ2025-2012
2019 327

3
GB18466-2005

4

	100	—	—	—	95

		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
		0.237t/a	0.003t/a		
3					
		GB/T 4754-2017		Q8421	
				2019	

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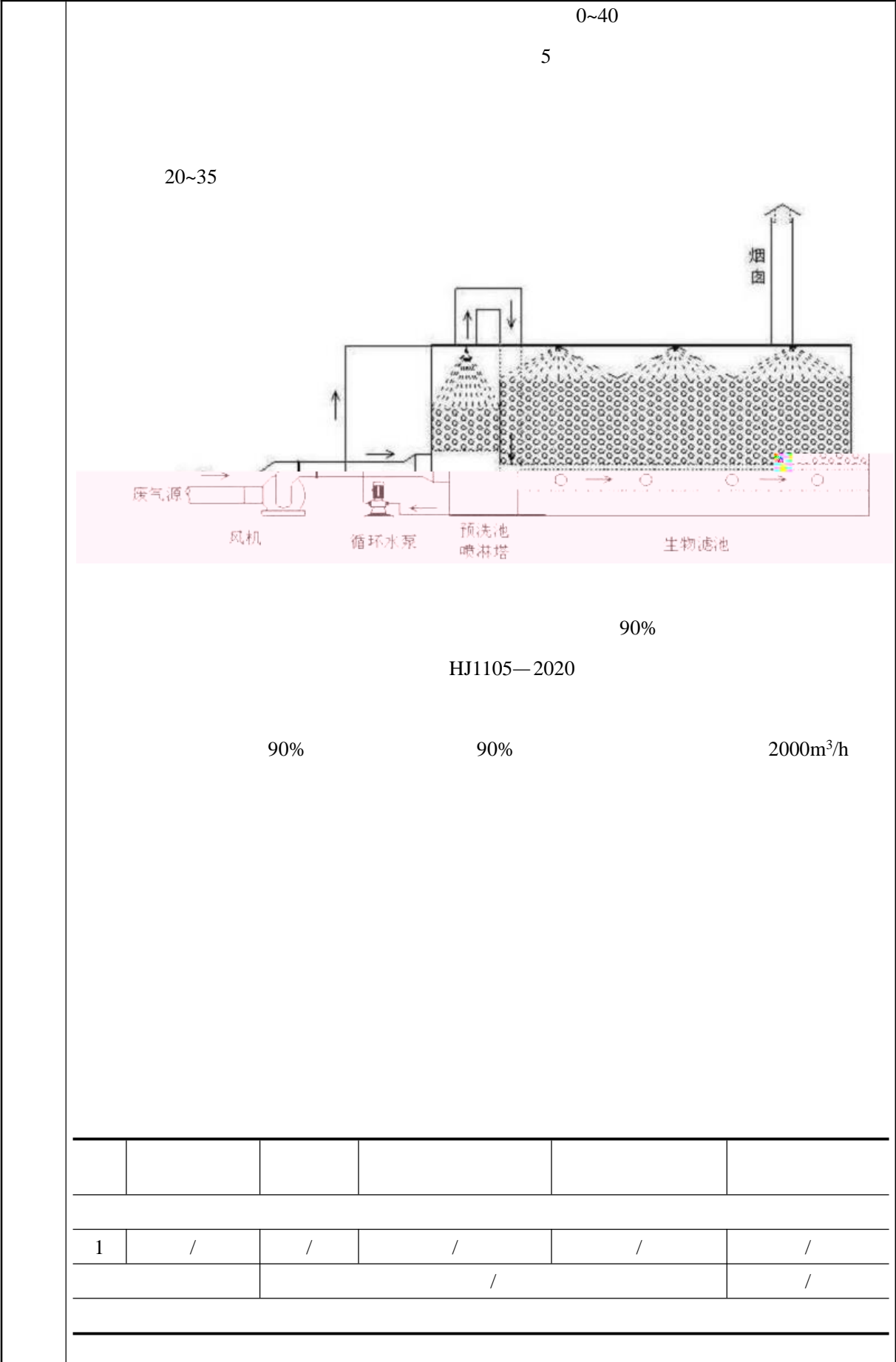
		NMHC		NO ₂	
		191	24.1	22.25	
b					
5km/h					
1138m					
2.5min					
5min					
c					
1.6					
90 /d					
d					
1187.94m ²					
3.5m					
6 /h					
63714m ³ /h					
e					
0.2L/km					
5km/h					
2.78×10 ⁻⁴ L/s					
g=fmt					
f					
g/L					
m					
L/s					
t					
s					
0.083L					
CO NMHC NO ₂					
15.92g 2.00g 1.48g					
4.1-4					
		NMHC		NO ₂	
t/a		0.523	0.066	0.048	
kg/h		0.082	0.010	0.008	
6					
4.1-5					
4.1-6					

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

"004

50%

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



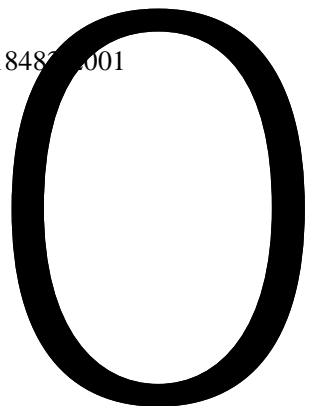
1	DA001	NH ₃	0.144	0.00014	0.0013	
		H ₂ S	0.006	0.000006	0.00005	
		NH ₃			0.0013	
		H ₂ S			0.00005	
		NH ₃			0.0013	
		H ₂ S			0.00005	
<hr/>						
1				DB32/4041-2021	4	0.15
2			NH ₃	GB18466-2005	1.0	0.0003
			H ₂ S		0.03	0.00001
3			CO	DB32/4041-2021	10	0.523
4			NMHC		4.0	0.066
5			NO ₂		0.12	0.010
						0.216
					NH ₃	0.0003
					H ₂ S	0.00001
					CO	0.523
					NO ₂	0.010
<hr/>						
						0.216
				NH ₃		0.0016
				H ₂ S		0.00006
				CO		0.523
				NO ₂		0.010
<hr/>						
15m				90%		GB14554-93



2.0mg/m³

75%

GB18487-2001



DB32/4041-2021

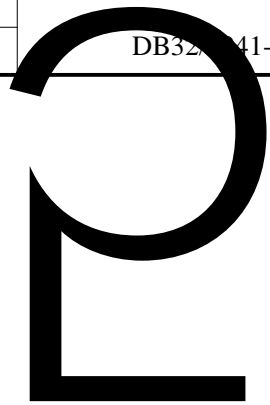
GB14554-93

GB18466-2005 3

HJ819-2017

HJ1105-2020

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



		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

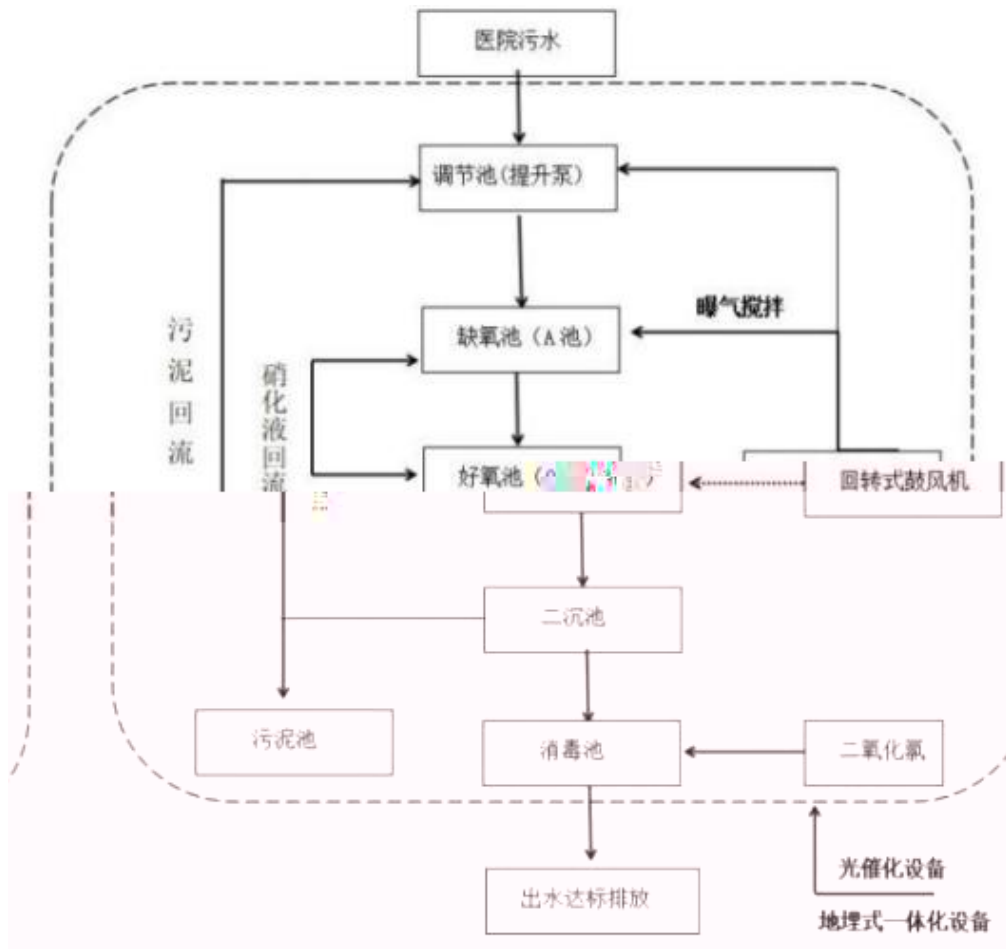
GB18918-2002 A

9233. 2	COD	400	3.693	+	250	2.308	250	50	0.462
	SS	300	2.770		60	0.554	60	10	0.092
	NH ₃ -N	45	0.415		30	0.277	45	5	0.046
	TP	5	0.046		5	0.046	8	0.5	0.005
	TN	50	0.462		30	0.277	70	15	0.138
876	COD	400	0.350	+	250	0.219	250	50	0.044
	SS	300	0.263		60	0.053	60	10	0.009
	NH ₃ -N	45	0.039		30	0.026	45	5	0.004
	TP	5	0.004		5	0.004	8	0.5	0.000
	TN	50	0.044		30	0.026	70	15	0.013
		100	0.088		25	0.022	20	1	0.001
1646. 8	COD	400	0.664	/	250	0.415	250	50	0.083
	SS	300	0.498		60	0.100	60	10	0.017
	NH ₃ -N	45	0.075		30	0.050	45	5	0.008
	TP	5	0.008		5	0.008	8	0.5	0.001
	TN	50	0.083		30	0.050	70	15	0.025
		1.6×10 ⁸ MPN/L	2.66×10 ¹¹ MPN		5000MPN/L		5000	1000MPN/L	
11756	COD	400	4.702	+	250	2.939	250	50	0.588
	SS	300	3.527		60	0.705	60	10	0.118
	NH ₃ -N	45	0.529		30	0.353	45	5	0.059
	TP	5	0.059		5	0.059	8	0.5	0.006
	TN	50	0.588		30	0.353	70	15	0.176
			18.5		0.217		4.6	0.054	20
		1.68×10 ⁷ MPN/L	1.98×10 ¹¹ MPN		5000MPN/L		5000	1000MPN/L	

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	/	/	/	1.6×10 ⁸ MPN/L
	mg/L	/	/	/	

63Hz 8KHz 8

$L_{p,r}$

$$L_{p,r} = L_w + D_c - A$$

$$A = A_{div} + A_{atm} + A_{gr} + A_{bar} + A_{misc}$$

$L_{p,r}$ — dB

L_w — A dB

D_c — dB L_w

DI

4 sr D $D_c = 0$ dB

A — dB

A_{div} — dB $A_{div} = 20 \lg r/r_0$

A_{atm} — dB $A_{atm} = a(r-r_0)/1000$ a

A_{gr} — dB $A_{gr} = 4.8 - 2hm/r$ 17+ 300/r

A_{bar} — dB 20dB A

25dB A

A_{misc} — dB

L_{p,r_0}

$L_{p,r}$

$$L_{p,r} = L_{p,r_0} - A$$

A $L_{A,r}$

$$L_A(r) = 10 \lg \left\{ \sum_{i=1}^8 10^{[0.1 L_{p_i}(r) - \Delta L_i]} \right\}$$

$L_{A,r}$ — r A dB A

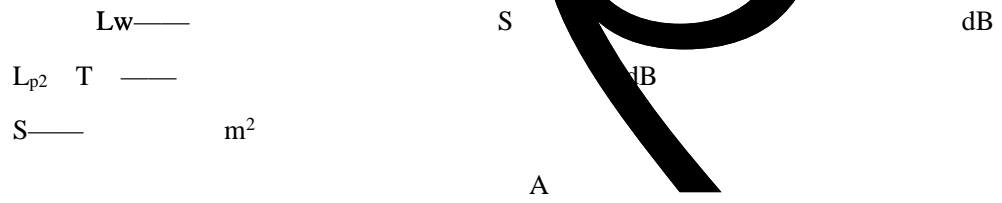
$L_{p_i,r}$ — r i dB

L_i — i A dB

A

A

	LA r =LAW-DC-A		LA r =LA r0 -A	
A	A			500HZ
		Lp1	Lp2	
		LP2=LP1- TL+6		
Lp1—		A		dB
Lp2—		A		dB
TL—				dB
		$L_{p1} = L_w + 10 \lg \left(\frac{Q}{4\pi r^2} + \frac{4}{R} \right)$		
Lp1—		A		dB
Lw—		A		dB
Q—				Q=1
Q=2		Q=4		Q=8
R—	R=S / 1-	S		m ²
r—				m
				i
		$L_{p1i}(T) = 10 \lg \left(\sum_{j=1}^N 10^{0.1L_{p1ij}} \right)$		
LP1i T —		N	i	dB
LP1ij—	j	i		dB N—
		LP2i T =LP1i T - TLi+6		
LP2i T —		N	i	dB
LP1i T —		N	i	dB
TLi—	i			dB
	S			
		Lw=LP2 T +10lgs		



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

$L_A(r)$ ——— dB A
 $L_A(r_0)$ ——— 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		
	1.0t/a				
				0.5kg/d	200
		36.5t/a			
			GB18466-2005		
				0.5t/a	
	5.04t/10000t-				4.57t/10000t-
		1	1		
9.61/10000t-					15770.06t/a
15.16t/a					
			GB18466-2005		
			387		0.08kg/
		30.96t/a			
			GB34330-2017		
	4.1-1				
		2021			G5085.7-2019B
			4.1-2		
				2017	43
		4.1-3			

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

1						(2016)	-	99	74.46
2							-	-	36.5
3							-	-	1.0
4							T,In	HW01 831-001-01 831-002-01 831-003-01 831-004-01 831-005-01	61.7125
5							In	HW01 831-001-01	0.5
6							In	HW01 831-001-01	30.96
7							In	HW01 831-001-01	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

GB18597-2001

6.2

6.3.1

1m

10-7cm/s

2mm

2mm

10-10cm/s 6.3.9

6.3.11

(GB15562-1995)

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																																																											
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HJ 964-2018 A.1

HJ610-2016

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161

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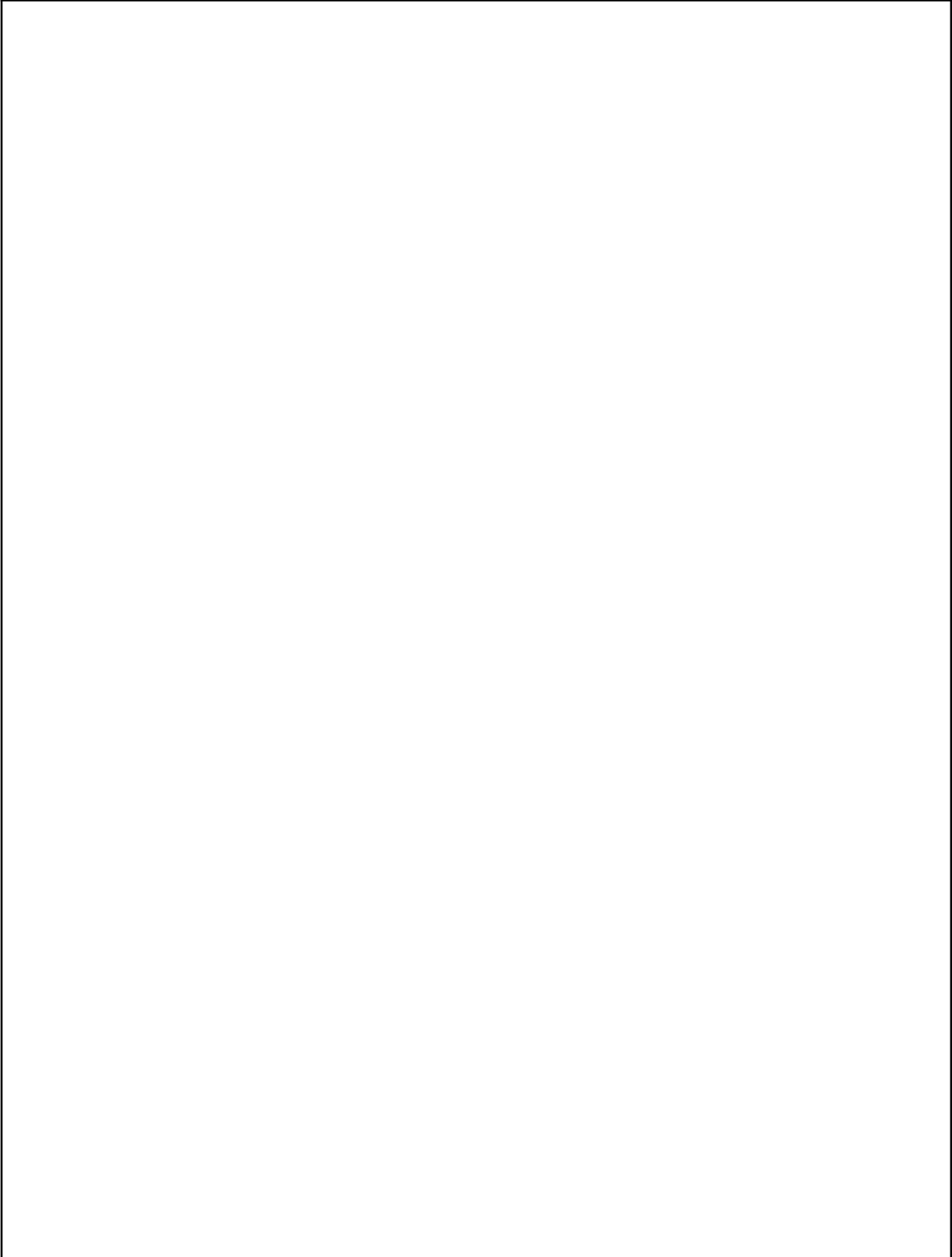
500m

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五、

六、结论



附表

	/	/	/	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 ₂ S	/	/	/	0.00001	/	0.00001	0.00001
CO	/	/	/	0.523	/	0.523	0.523
NO ₂	/	/	/	0.010	/	0.010	0.010
	/	/	/	15770.06	/	15770.06	+15770.06
COD	/	/	/	0.789	/	0.789	+0.789
SS	/	/	/	0.158	/	0.158	+0.158
NH ₃ -N	/	/	/	0.079	/	0.079	+0.079
TP	/	/	/	0.008	/	0.008	+0.008
TN	/	/	/	0.237	/	0.237	+0.237
	/	/	/	0.003	/	0.003	+0.003
	/	/	/	1000MPN	/	1000MPN/L	1000MPN/L
	/	/	/				

000L 01

