



15369212280

/

071500

13070570936

/

061000

5 501 502

	-----	3
1	-----	4
1.1	-----	4
1.2	-----	4
1.3	-----	4
2	-----	4
2.1	-----	4
2.2	-----	5
2.3	-----	14
2.4	-----	15
2.5	-----	16
2.6	-----	18
2.7	-----	18
2.8	-----	18
2.9	“ ” -----	18
2.10	-----	19
3	-----	20
3.1	----- !	
3.2	----- !	
4	-----	23
4.1	-----	23
4.2	-----	23
4.3	-----	28
5	-----	31
5.1	-----	31
5.2	-----	31
6	-----	32
6.1	-----	32
6.2	-----	39
7	-----	44
7.1	-----	44
7.2	-----	46
8	----- !	

8.1	-----	!	
8.2	-----	!	
8.3	-----	!	
8.4	-----	!	
9	-----		49
9.1	-----		49
9.2	-----		50

1

2

3

1

2

3

4

5

6

7

8

XHBG201911111 XHBG201912059

2016 9 24191.45  
20 m<sup>3</sup>/d

GB18918-2002 A

GB3838-2002

COD 40mg/L BOD<sub>5</sub> 10mg/L SS 10mg/L TN  
15mg/L NH<sub>3</sub>-N 5mg/L TP 0.4mg/L

2016 9

2016 12 5

2016 02

2016 10 9

682

2019 11

[2017]4

[2017]727

2018 9

# 1

## 1.1

1	2015	1	1	
2	2016	9	1	
3	2018	1	1	
4	2016	1	1	
5	2018	12	29	
6	2016	11	7	
7	2017	10	1	
8	2005	5	1	

## 1.2

1	GB18918-2002
2	GB12348-2008
3	GB16297-1996
4	GB3838-2002

2-1

**2-1**

	13472277719		071500
	17448.33m <sup>2</sup>		115°48'41.472" 38°41'46.907"
	2017 3		2019 10

2.1.2

115°48'41.472"

38°41'46.907"

1

6 /

2

2.1.3

3

**2.2**

2.2.1





2-2

1		1 Q=1300m <sup>3</sup> /hr H=16m P=90kW	1 Q 2100m <sup>3</sup> /h H 9m P 70kW	1 Q=1300m <sup>3</sup> /hr H=13m P=90kW	1 Q 2200m <sup>3</sup> /h H 13m P 1000kW	
2		16	16 N=7.5kW	16	16 N=7.5kW	
3		4 SA77/TDT90S4	B=1400mm 3mm 90 P=1.1kW 4 B=300mm L=8m P=1.5kW 4 Q=16m <sup>3</sup> /h H=70m N=5.5kW 4 B=2000mm 1mm 90 P=1.5kW 4 Q=20m <sup>3</sup> /h H=68m N=7.5kW 4	4 SA77/TDT90S4	B=1400mm 3mm 90 P=1.1kW 2 B=300mm L=8m P=1.5kW 1 Q=32m <sup>3</sup> /h H=81m N=5.5kW 6 B=2000mm 1mm 90 P=1.5kW 4	2 B=300m L=8m P=1.5kW 3 32m <sup>3</sup> /h 6 20m <sup>3</sup> /h 16m <sup>3</sup> /h
		8 SXW-900-2000-1	B=1400mm 3mm 90 P=1.1kW 4 B=300mm L=8m P=1.5kW 4	8 SXW-900-2000-1	B=1400mm 3mm 90 P=1.1kW 4 B=300mm L=8m P=1.5kW 4	20m <sup>3</sup> /h 10 32m <sup>3</sup> /h



		HDPE 2380m	160 170m SS304 136	2380m	160 170m SS304 136	
7		Q=500m <sup>3</sup> /min P=69.6kPa		Q=500m <sup>3</sup> /min P=69.6kPa		
8		3 Q=3000m <sup>3</sup> /h H=10m N=110kW	Q=3000m <sup>3</sup> /h H=13m N=140kW 3 2 1 DN1000 3 2 1 DN1000 3 2 1	/	/	
9			Q=500L/h P=5bar N=0.25kW 2		Q=500L/h P=5bar N=0.25kW 2	

2-3

1		Q=65kg/h,P=455kw 5	4		Q=65kg/h,P=455kw 5	4					
2		D=150mm 576	+SS316L		D=150mm 576	+SS316L					
3		Q=4000m <sup>3</sup> /h 2 1	1 1		Q=4000m <sup>3</sup> /h 2 1	1 1					
4		Q=2700 H=18m;P=200kw 5 Q=231.48m <sup>3</sup> /h; 27	2 3		Q=2700 H=18m;P=200kw 5 Q=231.48m <sup>3</sup> /h; 27	3 2					
5		D=1200mm N=6.5kw 3 D=1700mm N=14.1kw 2	/		/	/					
6		/	/		Q=2200m <sup>3</sup> /h H=13m N=100kW 4	3 1					

2-4

		(m)		m	m <sup>2</sup>	m <sup>2</sup>	(m)		m	m <sup>2</sup>	m <sup>2</sup>
1		24.90×37.60	1	7.80	1039.06	895.81	24.90×37.60	1	7.80	1039.06	895.81
2		39.00×46.80	—	14.90	1961.64	—	39.00×46.80	—	14.90	1961.64	—
3		86.90×71.54	1	8.30	6580.32	6216.83	86.90×71.54	1	8.30	6580.32	6216.83
4	1#	31.20×14.80	1	6.60	566.34	461.76	31.20×14.80	1	6.60	566.34	461.76
5		23.00×10.00	—	—	230.00	—	23.00×10.00	—	—	230.00	—
6		—	—	—	—	—	7.50×7.50	1	—	57.00	—

2-5

1		Q=2100m <sup>3</sup> /h H=9m P=70kW		1	Q=2200m <sup>3</sup> /h H=13m P=1000kW	1	
1		N=7.5kW		16	N=7.5kW	16	
1		B=1400mm 3mm 90 P=1.1kW		8	B=1400mm 3mm 90 P=1.1kW	6	2
		B=2000mm 1mm 90 P=1.5kW		10	B=2000mm 1mm 90 P=1.5kW	10	
2		B=300mm L=8m P=1.5kW		8	B=300mm L=8m P=1.5kW	5	3
3		Q=16m <sup>3</sup> /h H=70m N=5.5kW		4	Q=16m <sup>3</sup> /h H=70m N=5.5kW	0	4
		Q=20m <sup>3</sup> /h H=68m N=7.5kW		12	Q=20m <sup>3</sup> /h H=68m N=7.5kW	0	12
		Q=32m <sup>3</sup> /h H=68m N=11kW		0	Q=32m <sup>3</sup> /h H=68m N=11kW	16	16
1		L=18m P=1.5kW		2	---	---	
		L=24m P=1.5kW		2	---	---	
2		---		---	L=7.8m P=1.5kW	4	
		---		---	L=11.8m P=1.5kW	4	
3		Q=20m <sup>3</sup> /h H=20m N=4kW		16	---	---	
4		---		---	Q=150m <sup>3</sup> /h H=10m N=7.5kW	2	
		---		---	Q=390m <sup>3</sup> /h H=10m N=18.5kW	2	
1		/		84	/	84	
2		DN1500		1	DN1500	1	
		DN1200		2	DN1200	2	
3		DN250		42	DN250	42	
1		Q=52m <sup>3</sup> /h		918	Q=52m <sup>3</sup> /h	918	
2		DN150		34	DN150	34	
3	HDPE	HDPE		2380	HDPE	2380	
4		SS304		136	SS304	136	

1		Q=500m <sup>3</sup> /min P=69.6kPa N=690kW		1	Q=500m <sup>3</sup> /min P=69.6kPa N=690kW	1
2		DN300		1	DN300	1
3	- -	DN300×DN700×DN2000		1	DN300×DN700×DN2000	1
4		DN700		1	DN700	1
5		DN200		1	DN200	1
6		/		1	/	1
7		DN700		1	DN700	1

1                      Q=3000m<sup>3</sup>/h                      3                      ——  
H=13m   N=140kW

24		VR80/1.5		3	VR80/1.5	3
25				1		1
26		1400kW		1	1400kW	1
27		DN300 4-20mA		1	DN300 4-20mA	1

28





## 2.4

### 2.4.1

4 80L/

·d 0.32m<sup>3</sup>/d

6.5m<sup>3</sup>/d

20133.74m<sup>3</sup>/d

13.74m<sup>3</sup>/d 20120m<sup>3</sup>/d

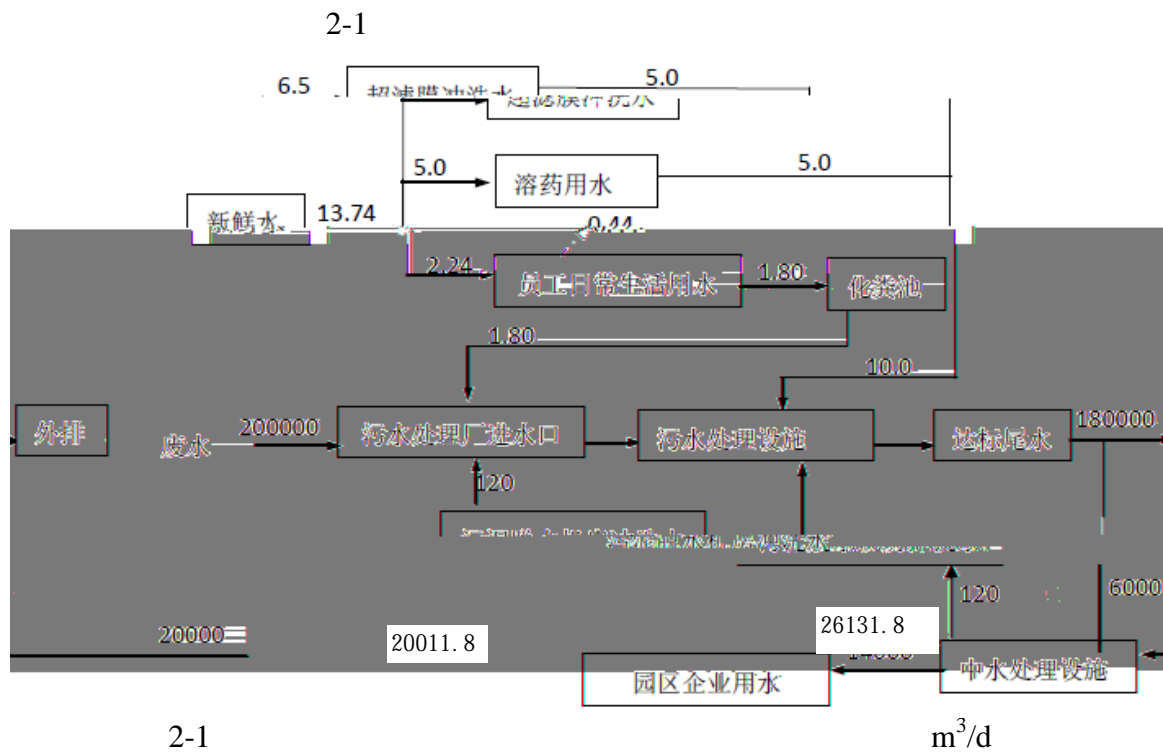
80%

0.26m<sup>3</sup>/d

20 t/d

2 t

18 m<sup>3</sup>/d

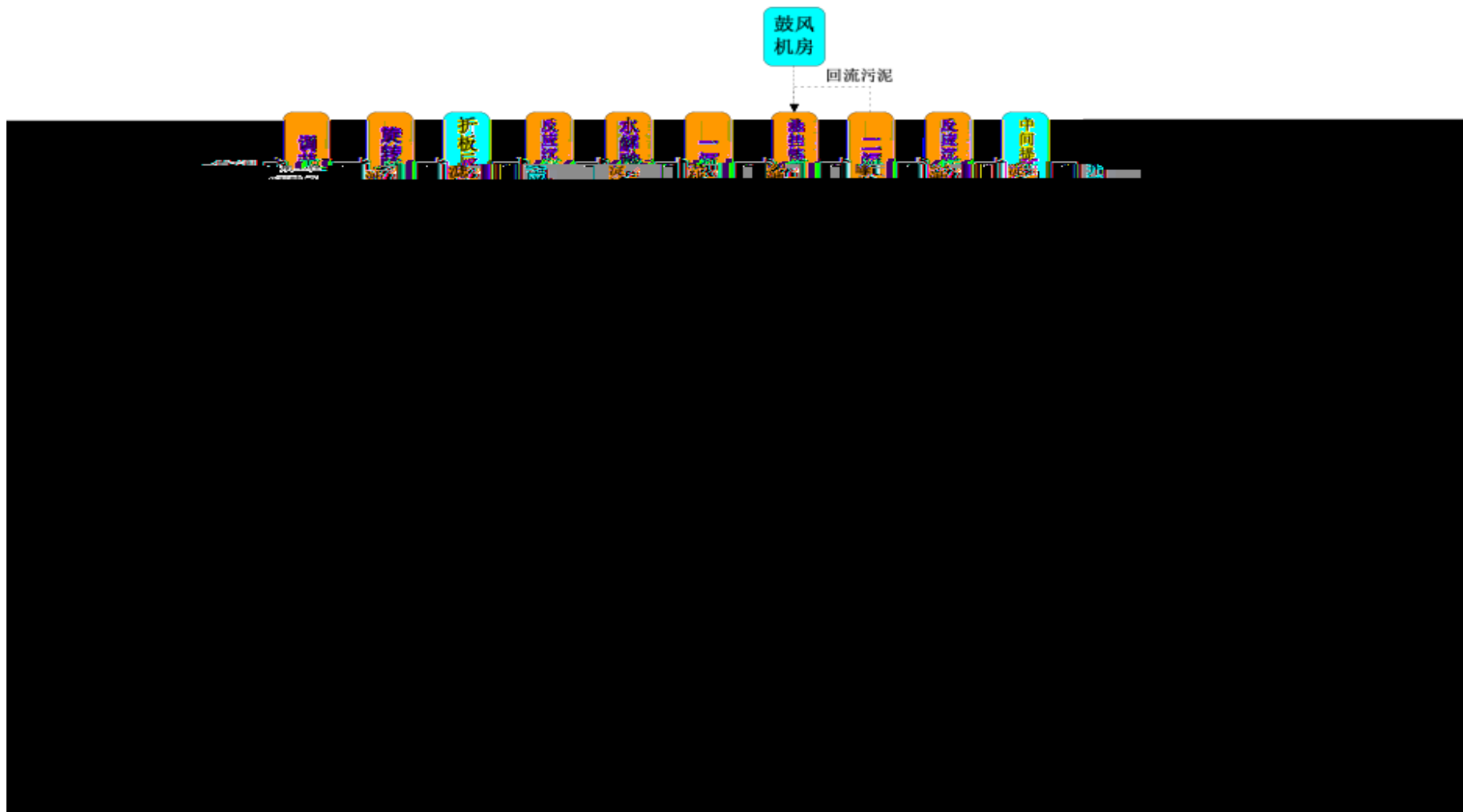


### 2.4.2

95

### 2.4.3

10kV  
100%  
10kV  
10kV  
10kV  
10kV  
0.4kV  
107.31 kWh/a  
2.5  
2-2



2-2

**2.6**

1

2

2016 12 5  
2016 02

**2.7**

24191.45

24191.45

2-6

**2-6**

	500
	2000
	20165.45
	1526
	24191.45

**2.8**

2

12

32m<sup>3</sup>/h

3

16m<sup>3</sup>/h

16

4

4

1

[2015]52

[2018]6

4

20m<sup>3</sup>/h

2

1

**2.9**

“ ”

“ ”

2-7



### 3

#### 3.1

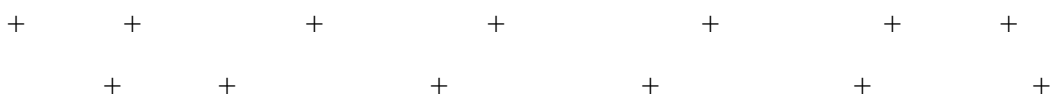
—

20m

300m

#### 3.2

20 m<sup>3</sup>/d



3.3

3.4

3-1 COD

3-2

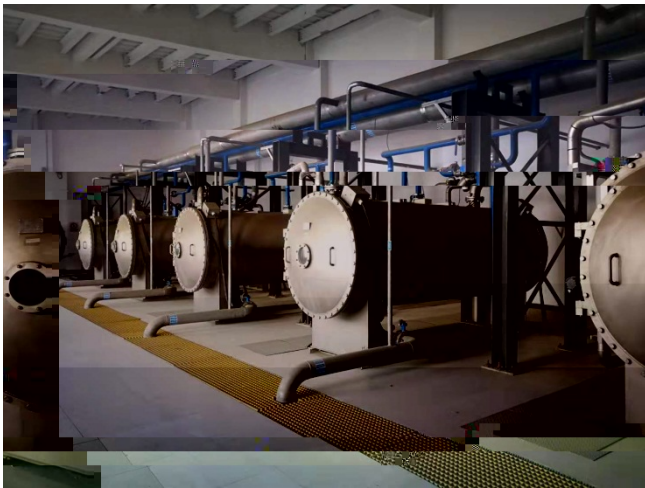
"-2



3-5



3-6



3-7



3-8



4

4.1

4.1.1

1

2

3

4

383

17448.33m<sup>2</sup>

5

20 m<sup>3</sup>/d

6

+

+

+

+

+

+

+

+

+

+

+

+

+

+

7

8

9

2016

5

2016

1/4

≤

1/4

10

4

365

4.1.2

2008-2020

300m

(GB12348-2008) 3

300m

4.1.3

21

2011 ( )

“ ” “ ” 9 “

” “

” 15 “ ” ”

[2009]89

2015 7

4.1.4

1

2

10kV

100%

10kV

10kV

10kV

10kV

0.4kV

3

95

4

5

4.0-10.0m

9.0m

4.1.5

(1)

—

2015 0163

GB18918-2002 4  
300m

(2)

GB18918-2002 A

(3)

85-90dB(A)

(GB12348-2008)3

(4)

98%

2.5t/d

60%

60%

200t/d

195.5t/d

4000t/d

60%

4.1.6

4.1.7

4

COD2628.0t/a

4.1.8

328.5t/a

SO<sub>2</sub> NO<sub>x</sub> COD  
SO<sub>2</sub>0t/a NO<sub>x</sub>0t/a

4.2

(1)

(2)

4.3

24191.45

24191.45

383

17448.33m<sup>2</sup>

20 /

1

2

3

+        +

+        +        +        +        +        +        +

+        +        +        +        +        +        +

+

GB18919-2002        A

4

5

GB12348-2008 3

6

300

SO<sub>2</sub>0t/a NO<sub>x</sub> 0t/a COD 3285t/a

328.5t/a





**5**

**5.1**

5.1.1

GB

18918-2002

**5-1**

			0.06	mg/m <sup>3</sup>	GB 18918-2002
			1.5	mg/m <sup>3</sup>	
			20		

5.1.2

GB18919-2002 A

**5-2**

	COD	40	mg/L	GB18919-2002 A	
	BOD <sub>5</sub>	10			
		2.0			
		0.4			
		15			
	SS	10			
		1000			

5.1.3

(GB12348-2008)3

≤70dB(A)      ≤55dB(A)

**5.2**

COD 3285t/a    NH<sub>3</sub>-N 328.5t/a    SO<sub>2</sub>:0t/a    NO<sub>x</sub> 0t/a

## 6

2019 11 16 17

2019 12 24 25

6-1

### 6-1

2019.11.16	18 t	12.43 t	69.06%
2019.11.17		11.62 t	64.56%
2019.12.24		16.95 t	94.17%
2019.12.25		15.75 t	87.5%

### 6.1

1

2

3

GB16157-1996 HJ/T55-2000

HJ494-2009

HJ/T91-2002

HJ493-2009

4

5.0m/s

5

6-2

1		HBXH0046	2017.05.20~2022.05.19
2		HBXH0066	2018.11.08~2023.11.07
3		HBXH0048	2019.01.08~2022.01.07
4		HBXH0058	2019.01.08~2022.01.07
5		HBXH0022	2018.12.20~2023.12.19
6		HBXH0011	2015.06.01~2020.05.31
7		HBXH0057	2018.11.05~2023.11.04
8		HBXH0044	2018.11.05~2023.11.04

6-3 /

1		TH-110F	XH001-1		HYHH19-02857	2020.03.04
			XH001-2		HYHH19-02862	2020.03.04
			XH001-3		HYHH19-02864	2020.03.04
2		721G	XH013		HYHH19-02003	2020.03.04
			XH219		HFGF19-00149	2020.08.01
3	-	T6	XH012		HYHH19-02245	2020.03.04
4	pH	PHS-3E	XH007		HYHH19-02008	2020.03.04
5		BSA124S	XH015		HYHH19-02305	2020.03.04
6		101-2ASB	XH020			

6-4

					L/min	L/min	%	%	
1	TH-11 OF	XH00 1-1	I	0.5	0.501	-0.2	±2.5		
			II	0.5	0.496	0.8	±2.5		
		XH00 1-2	I	0.5	0.498	0.4	±2.5		
			II	0.5	0.503				

**6-5-4**

		mg/L	mg/L	%		
		40	39	-2.5	±15%	
		40	39	-2.5	±15%	
		200	204	2.0	±15%	
		200	202	1.0	±15%	

**6-5-4**

		mg/L	mg/L	mg/L	%	%	
	1-1-1 -W	1.00	2.12	1.08	104	90-110	
	1-3-1 -W	0.100	0.187	0.081	106	90-110	
	2-1-1 -W	1.00	2.08	1.05	103	90-110	
	2-3-1 -W	0.100	0.171	0.067	104	90-110	

**6-6**


**6-7**

		mg/L	mg/L	mg/L	(%)	
	1-1-4 -W	20	19	20	2.6	≤20%
mg/L	1-1-1 -W	447	451	449	0.45	

**6-8-1**

pH	202175	7.33±0.06	7.34	
CaCO <sub>3</sub> mmol/L	200740	1.60±0.06	1.56	
N mg/L	200844	5.02±0.17	5.14	
μg/L	202268	40.6±5.6	40.8	
mg/L	201749	2.01±0.10	1.98	
μg/L	202045	5.15±0.42	4.88	
mg/L	202428	1.50±0.06	1.50	
mg/L	202525	1.21±0.04	1.20	
mg/L	201844	70.0±2.8	70.6	

**6-8-2**

		mg/L	mg/L	mg/L	%	%
N	1-1-1 -DX	0.40	0.40	ND	100	95-105
SO <sub>4</sub> <sup>2-</sup>	1-1-1 -DX	60	139	80	98.3	90-110
N	1-1-1 -DX	0.050	0.122	0.072	100	90-110

**6-8-3**

					%	%
	1-1-1 -DX	5.00	4.55	ND	91.0	85-115
	1-1-1 -DX	5.00	4.78	0.11	93.4	90-110
	1-1-1 -DX	25.0	26.3	2.32	95.9	90-110

**6-8-4**

						%	%
		30.00	30.998	0.000		103	80-120
		30.00	31.609	0.000		105	80-120

**6-8-5**

			<b>mg/L</b>	<b>mg/L</b>	<b>%</b>		
			4.00	3.98	-0.50	±15%	
			4.00	4.02	0.50	±15%	

**6-9**

			<b>mg/L</b>		<b>mg/L</b>	<b>(%)</b>	
mg/L	1-1-1	-DX	0.58	0.60	0.59	1.7	≤20%
( CaCO <sub>3</sub> ) mg/L	1-1-1	-DX	88.3	91.4	89.8	1.7	≤8%
mg/L	1-1-1	-DX	381	387	384	0.78	≤10%
<sup>N</sup> mg/L	1-1-1	-DX	4.1	4.1	4.1	0	≤5%
<sup>N</sup> mg/L	1-1-1	-DX	0.070	0.075	0.072	3.4	≤10%
<sup>N</sup> mg/L SO <sub>4</sub> <sup>2-m</sup>	1-1-1	-DX	ND	ND	/	/	≤15%



**6-10**

		94.0dB A			
					0.5dB A
2019.11.16		93.9	93.9	0	
		93.8	93.9	0.1	
2019.11.17		93.8	93.8	0	
		93.9	93.9	0	

**6.2**

6.2.1

**6-9**

○1#	○2#	○3#	2	4

**6-10**

	pH		2	4
			2	4
	pH		2	4
			2	4

**6-11**

			A	2
			Leq(A)	1

28m



		HJ 347.2-2018	/XH049	
8		BOD <sub>5</sub> HJ 505-2009	SPX-150B /XH098	0.5mg/L
9		GB/T 7494-1987	721G /XH013	0.05mg/L
10		GB/T 11903-1989	/	/

**6-15**

				/
1	pH	GB/T 5750.4-2006 5.1	pH PHS-3E/XH007	/
2		GB/T 5750.4-2006 1.1 -	/	/
3		GB/T 5750.4-2006 2.2 -	/	/

4

GB/T 5750.7-.0CID 103 >>BDC /C2\_0 1 Tf -9.236-1.25 Td <4AF2>Tj E

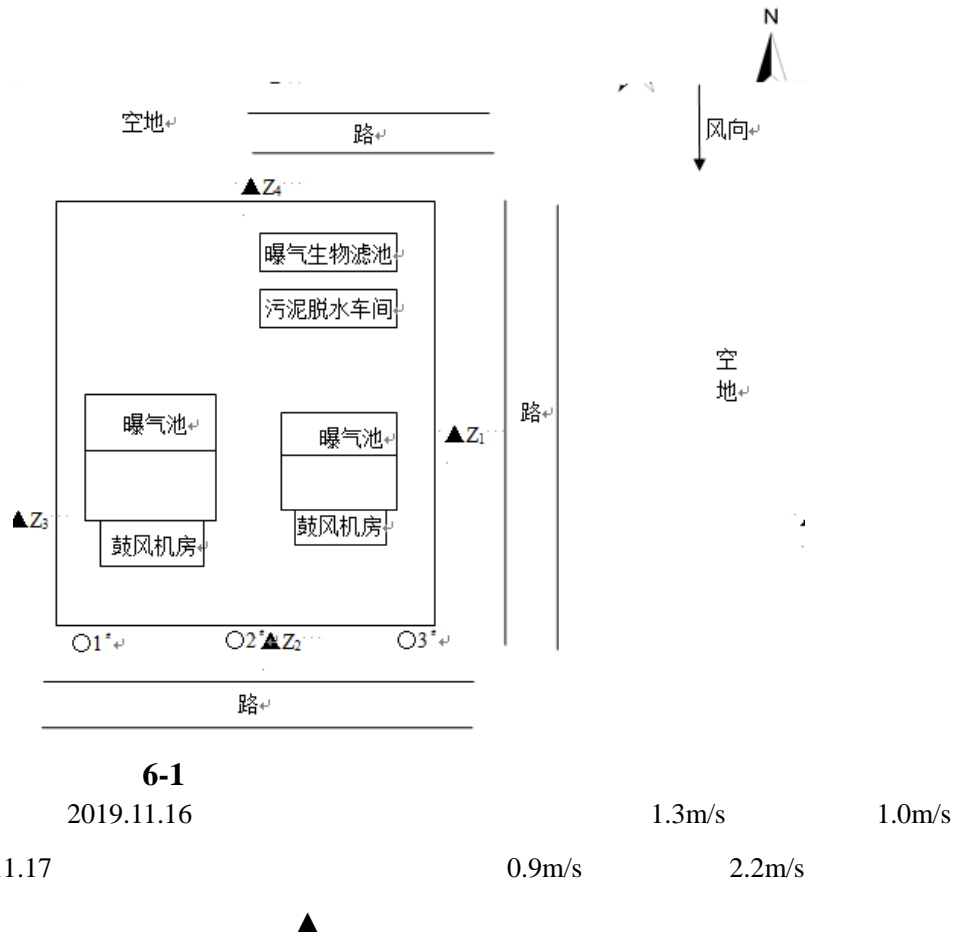
9	N	GB/T 5750.5-2006 9.1	/	0.02mg/L
10	SO <sub>4</sub> <sup>2-</sup>	GB/T 5750.5-2006 1.3	721G /XH013	5mg/L
11		4- HJ 503-2009	721G /XH219	0.0003mg/L
12		GB/T5750.5-2006 4.1 -	721G /XH013	0.002mg/L
13		GB/T 7484-1987	PXSJ-216F /XH008	0.05mg/L
14		GB/T 5750.6-2006 10.1	721G /XH219	0.004mg/L
15		GB/T 5750.6-2006 8.2	F732-VJ /XH021	0.2μg/L
16		GB/T 5750.6-2006 2.1	AA-6880F/AAC /XH040	0.03mg/L
17		GB/T 5750.6-2006 3.1		0.01mg/L
18		GB/T 5750.6-2006 9.7	ICP-MS G8421A 7800/XH143	0.06μg/L
19		GB/T 5750.6-2006 6.6		0.09μg/L
20	Cl <sup>-</sup>	GB/T 5750.5-2006 2.1	50mL	1.0mg/L
21		GB/T 5750.4-2006 10.1	721G /XH013	0.050mg/L

22		GB/T 5750.12-2006 2.1	GNP-150 /XH049	/
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**6-16**

1	A	GB 12348-2008	AWA5680 /XH033
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6.2.3



7

7.1

7.1.1

7-1

mg/m <sup>3</sup>	2019.11.16	○1 <sup>#</sup>	0.074	0.077	0.071	0.075	
		○2 <sup>#</sup>	0.103	0.108	0.112	0.133	
		○3 <sup>#</sup>	0.069	0.090	0.068	0.083	
	2019.11.17	○1 <sup>#</sup>	0.075	0.074	0.063	0.080	
		○2 <sup>#</sup>	0.091	0.079	0.096	0.088	
		○3 <sup>#</sup>	0.138	0.093	0.104	0.099	
mg/m <sup>3</sup>	2019.11.16	○1 <sup>#</sup>	0.002	0.003	0.003	0.002	
		○2 <sup>#</sup>	0.003	0.004	0.003	0.003	
		○3 <sup>#</sup>	0.003	0.003	0.002	0.003	
	2019.11.17	○1 <sup>#</sup>	0.002	0.003	0.003	0.002	
		○2 <sup>#</sup>	0.003	0.004	0.003	0.003	
		○3 <sup>#</sup>	0.002	0.003	0.003	0.002	
	2019.11.16	○1 <sup>#</sup>					

7-2-2

2019. 12.24	pH	6.60	6.62	6.63	6.65
	mg/L	405	393	390	399
	mg/L	26	22	27	24
	mg/L	6.86	7.48	7.66	7.41
	mg/L	8.80	8.84	8.94	8.99
	mg/L	0.10	0.08	0.06	0.08
	mg/L	108	103	106	110
	MPN/L	2.4×10 <sup>2</sup>	2.4×10 <sup>2</sup>	2.4×10 <sup>2</sup>	2.4×10 <sup>2</sup>
	mg/L	1.18	1.09	1.14	1.12
		4	4	4	4
2019. 12.25	pH	6.67	6.69	6.64	6.69
	mg/L	355	343	496	436
	mg/L	25	28	23	26
	mg/L	7.17	6.76	6.48	5.67
	mg/L	8.80	8.74	8.78	8.94
	mg/L	0.08	0.09	0.07	0.05
	mg/L	101	98.3	141	124
	MPN/L	2.2×10 <sup>2</sup>	2.2×10 <sup>2</sup>	2.2×10 <sup>2</sup>	2.2×10 <sup>2</sup>
	mg/L	0.99	1.07	1.15	1.04

7.1.4

pH	2019.12.24	8.38
		0
NTU		0
mg/L		0.59
CaCO <sub>3</sub> mg/L		89.8
mg/L		384
N mg/L		4.1
N mg/L		0.072
N mg/L		ND
SO <sub>4</sub> <sup>2-</sup> mg/L		80
mg/L		ND
mg/L		ND
mg/L		0.48
mg/L		ND
μg/L		ND
mg/L		ND
mg/L		ND
μg/L		ND
μg/L		ND
Cl <sup>-</sup> mg/L		60.0
mg/L	ND	
MPN/100mL		

7.2

7.2.1

20 0.003mg/m<sup>3</sup> 0.138mg/m<sup>3</sup>  
GB 18918-2002

7.2.2

2019.11.16  
pH 8.10~8.16 COD 22mg/L 0.325mg/L SS



8mg/L TP	0.10mg/L TN	4.02mg/L BOD <sub>5</sub>
5.4mg/L	2019.11.17	
	pH 8.07~8.21	COD 19.3mg/L
0.254mg/L SS	8mg/L TP	0.07mg/L TN
4.33mg/L BOD <sub>5</sub>	5.3mg/L	2019.12.24
	0.078mg/L	2019.12.25
0.085mg/L		
GB18918-2002	A	

### 7.2.3

50.9 53.8dB(A)

44.4 46.3dB(A)

GB12348-2008

3

### 7.2.4

GB14848-2017 III

GB5749-2006

### 7.2.5

## 7.3

365 24 18 m<sup>3</sup>/d( 6570 m<sup>3</sup>/a)

18 m<sup>3</sup>/d( 6570 m<sup>3</sup>/a)

COD 6570 m<sup>3</sup>/a×22mg/L×10<sup>-6</sup>=1445.4t/a

6570 m<sup>3</sup>/a×0.325mg/L×10<sup>-6</sup>=21.35t/a

TP 6570 m<sup>3</sup>/a×0.1mg/L×10<sup>-6</sup>=6.57t/a

TN 6570 m<sup>3</sup>/a×4.33mg/L×10<sup>-6</sup>=284.48t/a

COD 3285t/a NH<sub>3</sub>-N 328.5t/a SO<sub>2</sub>:0t/a

NO<sub>x</sub>:0t/a

# 8

## 8.1

100%

1

0.003mg/m<sup>3</sup>

0.138mg/m<sup>3</sup>

20

GB

18918-2002

2

2019.11.16

pH 8.10~8.16 COD

22mg/L

0.325mg/L SS

8mg/L TP

0.10mg/L TN

4.02mg/L BOD<sub>5</sub>

5.4mg/L

2019.11.17

pH 8.07~8.21 COD

19.3mg/L

0.254mg/L SS

8mg/L TP

0.07mg/L TN

4.33mg/L BOD<sub>5</sub>

5.3mg/L

2019.12.24

0.078mg/L

2019.12.25

0.085mg/L

GB18919-2002

A

3

50.9 53.8dB(A)

44.4 46.3dB(A)

GB12348-2008

3

4

GB14848-2017 III

GB5749-2006

5

5

365 24 18 m<sup>3</sup>/d( 6570 m<sup>3</sup>/a)

18 m<sup>3</sup>/d( 6570 m<sup>3</sup>/a)

COD 6570 m<sup>3</sup>/a×22mg/L×10<sup>-6</sup>=1445.4t/a

6570 m<sup>3</sup>/a×0.325mg/L×10<sup>-6</sup>=21.35t/a

TP 6570 m<sup>3</sup>/a×0.1mg/L×10<sup>-6</sup>=6.57t/a

TN 6570 m<sup>3</sup>/a×4.33mg/L×10<sup>-6</sup>=284.48t/a

COD 3285t/a NH<sub>3</sub>-N 328.5t/a SO<sub>2</sub>:0t/a

NO<sub>x</sub> 0t/a

6

## 8.2

“ ”

(	97				
)	20		12	t	