
80

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1		1
2		3
3		4
3.1	Ñ é "d	4
3.1.1		4
3.1.2		4
3.1.3		4
3.2		5
3.2.1		5
3.2.2		9
3.2.3		10
3.2.4		12
3.2.5		12
3.2.6		13
3.2.7	...5 b.	

	6.2		32
	6.3		33
7			34
	7.1		34
	7.2		38
	7.3		40
	7.4		50
	7.5		51
8			52
	8.1		52
	9.2“	”	52
	9.3		52
	9.4		52
	9.5		52
	9.6		53
9			54

80

3

7680

80 7

• × J/j 93 -15%ö] = 2" 'h•¾p[U
rã @ P # D \$ 8 P % \$ # \$ 0 D r @ □

/ 65%

8

4

4

1

2

10



+05>|S @ /B>@ñà

80 7

1

“ ”

B \$ L€ 65%

1#(A B) 2#(C D) 3#(E) ,1# 2#

3# ,1# 2# 3# ;

50

50 /

2014 10î ñ f

206Õ

2.1

682 2017.7.16

2.2

2017 11 20

2.3

2018 5

2.4

[2012]77 2012.7.3

2.5

[2017]4 2017 11

20

2.6

[51068314022801]0021

2.7

80 / 3

/

[2014]56

2.8

80 /

3 /

2.9

80 / 3

/

[2014]133

3.1.1

		15.7	10.0	5000	6500
10.0		240-300		4.0	10.0
-10.0	<1.00		1053.2		1421.4
	608.7				
1011.3	1178.0	802.7		285	

3.1.2

			22.32
76.65		6.58	

1km 10km

3.1.3

		103°54	104°20	30°09	31°42
	1245.3				
42	61				

80 /

3 /

50

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3.2.1

1# 2# 3#

, 1# 2# 3#

, 1# 2# 3# ;

50

4#

4#

3

1

50 /

3-1

3-1

	1#	1F 3600m ² H=9m 2 15m 20	2	1F 3600m ² H=9m 30m
	2#	A : 2880m ² H=6m B :	1F 1F	1F 1728m ² H=14m 2

3456m² H=9m
A B

30m

11 C c d
:
1728m² H=14m
2 1F

15m
20

3#

1F
3600m² H=9m 2
15m
20

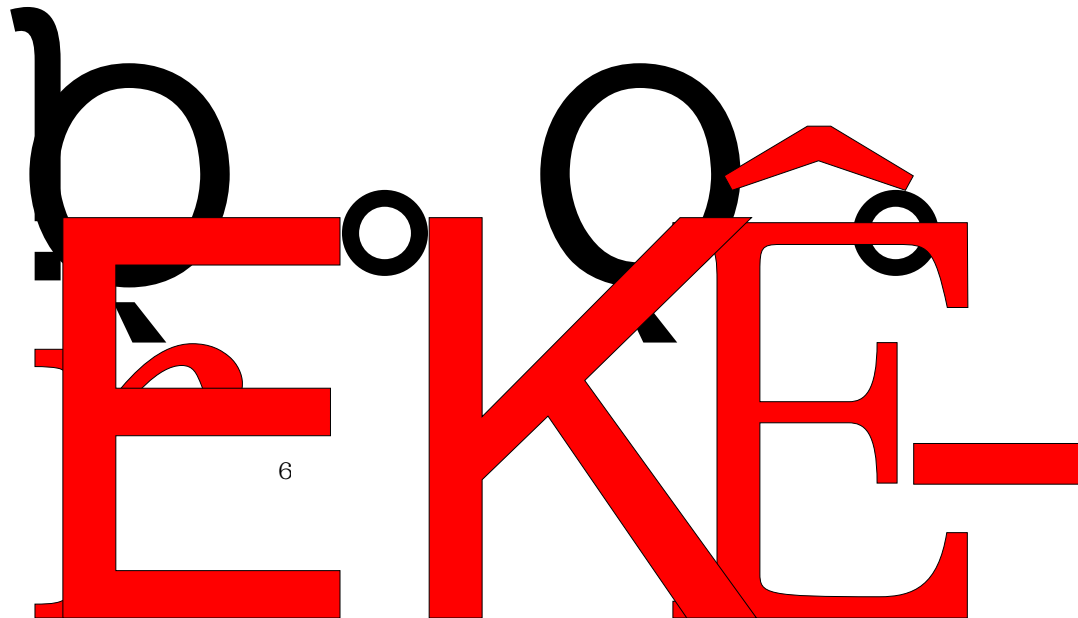
1

1F
3600m² H=14m
80m

4#

1F
3600m² H=9m 2
15m
20

700m² d10000× 10000mm
2 100m³



		150m ²		
		155m ²	814.2m ³ 24m× 11.5m× 2.95m	
		24m ² 1 50kw	24m ²	
		1F 2384.67m ²	1F 2384.67m ²	
		2000m ²	2000m ²	-
		1F 2011.62m ²	1 , 1	
		2F 2339.90m ² 1F 2F	2F 2339.90m ² 1F 2F	
	1#	1F H=8m 12513.33m ² 1#	1F H=8m 12513.33m ² 1#	
	2#	11 C : 1F 5184m ² H=14m 2#	11 C : 1F 5184m ² H=14m 2#	
	3#	1F H=8m 24716.39m ² 3#	1F H=8m 24716.39m ² 3#	
	4#	1F H=8m 28543.91m ² 4#	1F H=8m 28543.91m ² 3#	
		H=8m 9178.79m ²	H=8m 9178.79m ²	

3.2.2

3-2

3-2

1	(CO(NH ₂) ₂)	N	46%			0.8mm	734
		90	w	H ₂ O	1.5		
2	NH ₃						

5	ZG2006 2000L=6000	1	1
6	HG2020 2000 L=20000	1	1
7	LQ2620 2000L=16000	1	1
8	TM1405 1600L=5000	1	1
9	TH630	1	1
10	TH630	1	1
11	TH400	1	1
12	LH1275 B=1200L=7500	1	/
13	ZWS1250S B=1200 L=5000	1	1
14	ZWS1250S B=1200 L=5000	1	1
15	LP800	1	1
16	40000 3000Pa	1	1
17	20000 3000Pa	1	1
18	30000 2000Pa	2	2
19	PLC-B50/460	1	1
20	2400×8000	1	1
21	3000×1500 V=9.8m ³	1	1
22	80FUI-38-80/32 N=11KW	1	1
23	IHF65-50-160 N=7.5KW	1	1
24		2	2
25			



3.2.4

3-3

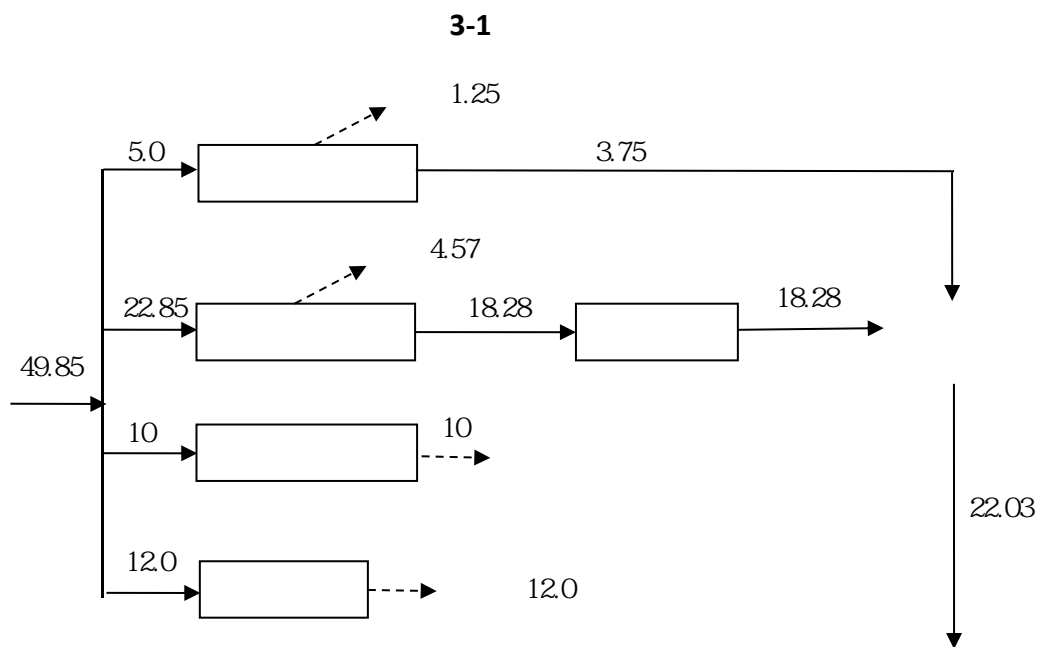
3-4 " d " " " " " "

	0.59375		0.003841695
	0.125		0.000038805
	0.78125		0.0000195
	1.33125		0.0002178
	1.13125		0.0000022
	1.40625		0.00213
	2.0		
	0.01875		
	9.63125		9.63125

3.2.7

49.85m³/d 1.4955 m³/a

22.03m³/d 6609m³/a



4

1

5

4-1



4-1

2

1

2

3

80 /

3 /

50 /

4

5

80%

20%

65 80

130-500

20-25

60-75

4

42

1

2

3

4

327

5

:

6

1

"

+

"

15

1#

(A B

)

"

+

+

"

2#

(C D

)

"

+

+

"

30m

3#

(E

)

"

+

+

"

80m

2

GB8978-1996

GB8978-1996

GB18918-2002

A

GB8978-1996

A/O

GB8978-1996

4.2m³/h 15m³/h
0.92m³/h

4.3.1

1

,

2

3

BOD₅ COD_{Cr} pH

4.3.2

1

1# 2# 3# (A B C D E)

1# (A B) “ +

” 2# (C D) “ +

+ ” 30m

3# (E) “ + + ”

80m

2

3

1# 2# 3#

5

NOx SO₂

NOx SO₂

4.3.3

4-1

	4-1
	/dB A
1	70 80
2	90
3	70 85
4	78 85
5	70 80
6	70 75

SO₂ NO_x

+

1#

(A B)

+

+
30m

2#

(C D)

+

15m

+

+
30m

3#

(E)

+

+
80m

80 /

3 /

50 /

		150m ³	150m ³

4.3.8

7680 50 4760
 1461.5 50 30.71%
 4-4

4-4

		1# :	
	8	+	30m 1
32	*12	2# :	
4	4	+	+
8	8	30m 2	
15m	4	3# :	1054
		+	+
		1 80m	
	12	12	
	4 + 4	4 + 4	
	20m ³	20m ³	6
			5
			4
			/
			0.5
			0.5

80 /

3 /

50 /

0.5

100

150m³
155m³

2.95m

814.2m³ 24m× 11.5m×

20

150

6

-



5.1.1

5.1.2

5.1.3

1

"r AêFJ@ J ...

SO₂ NO₂

80

/

3

50



3

4

5.1.5

1

GB8978-1996

—

2

1#

“

+

+30m

” 2#C“LSE÷

m

4

5.1.6

5.1.7

5.1.8

" " 2010

1

4.114t/a

SO₂ 0.48t/a

NOx 6.889t/a

2

GB8978-1996

5.1.9

"

"

"

"

5.2.1

1

" "

2

"

"

3

5

6

7

8

5.2.2

1

80 /

3 /

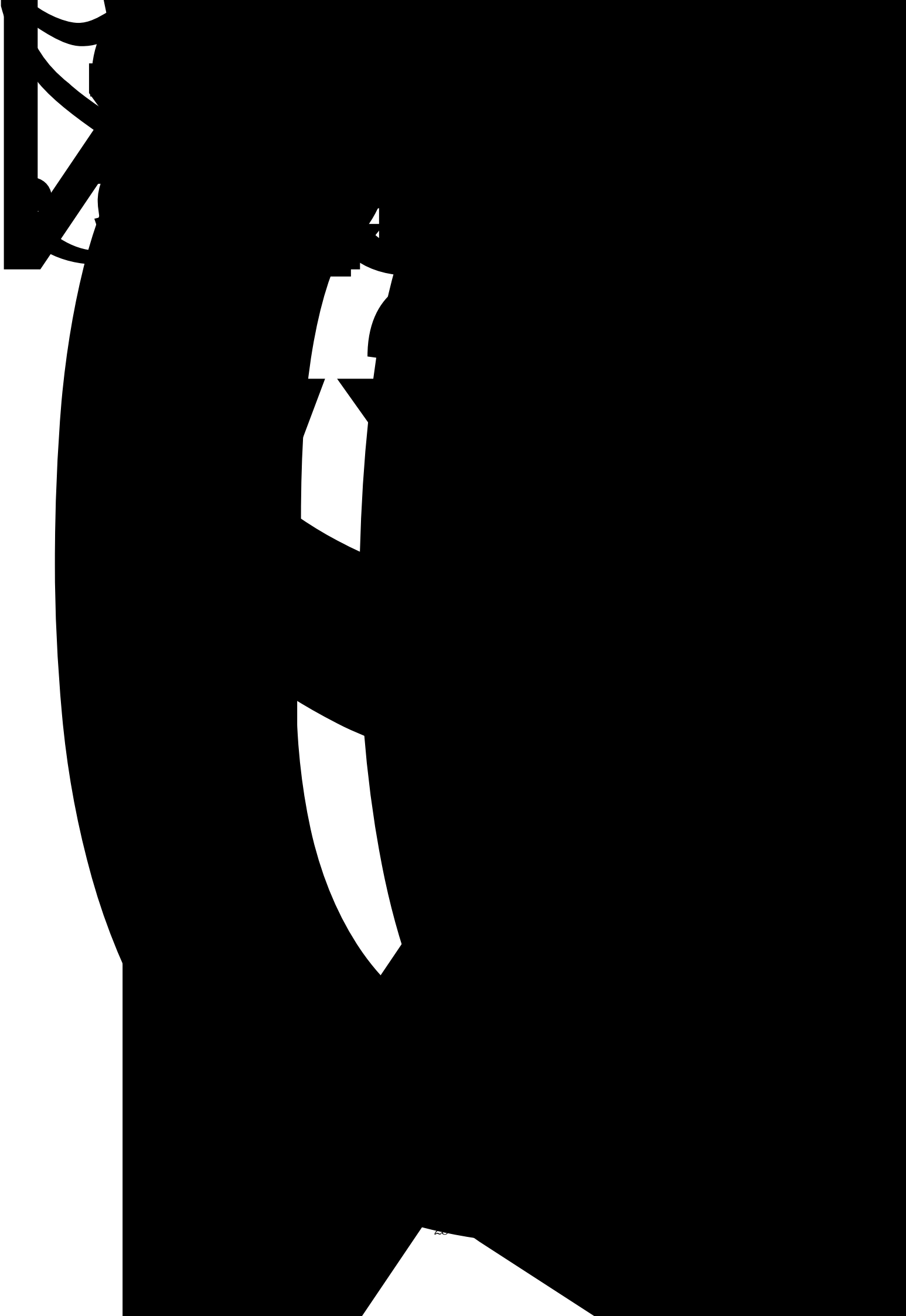
50 /

2

3

1

100m³



80 /

3 /

50 /

NO_x

15m

4

30m³

GB89

GB/T 14848-2017 1

(TJ36-79) 1

GB16297-1996

2

(GB16297-1996)

2

(GB13271-2014)

(GB14554-93)

GB12348-2008 3

GB18599-2001

GB18597-2001

6-1

		120mg/m ³				120mg/m ³	
		3.5kg/h				3.5kg/h	
()		1	(GB16297-1996) 2	()		1	(GB16297-1996) 2
		50mg/m ³				50mg/m ³	
		/				/	
		200mg/m ³	(GB13271-2014) 4			200mg/m ³	(GB13271-2014) 4
		/				/	
		20kg/h		(GB14554-93)			
()		0.2mg/m ³		()		0.2mg/m ³	
			(TJ36-79)				(TJ36-79)

	pH	6.5-8.5	(GB/T 14848-2017) 1	pH	6.5-8.5	(GB/T 14848-2017) 1
		450			450	
		-			3.0	
		0.5			0.2	
		0.02			-	
		250			250	
			(GB12348-2008) 3			(GB12348-2008) 3
	dB A	65		dB A	65	
	dB A	55		dB A	55	
	GB18599-2001 GB18597-2001			GB18599-2001 GB18597-2001		

SO₂ NO_x

6-2

6-2

t/a

		SO ₂	NO _x
	62.28	7.56	7.992

2019 7 6-7

80 /

3 /

50 /

2019 8 12-13

E

2019 8 20-25

AB

C

D

75%

7-1

7-1

80 /
/ N

3

7.2.1

7-2

2019. 7. 6 2019. 7. 7	1#	1	0.5	2 4	AVA6228+ AVA6021A
	2#	1	0.5		
	3#	1			
	4#	1	0.5		

7-3

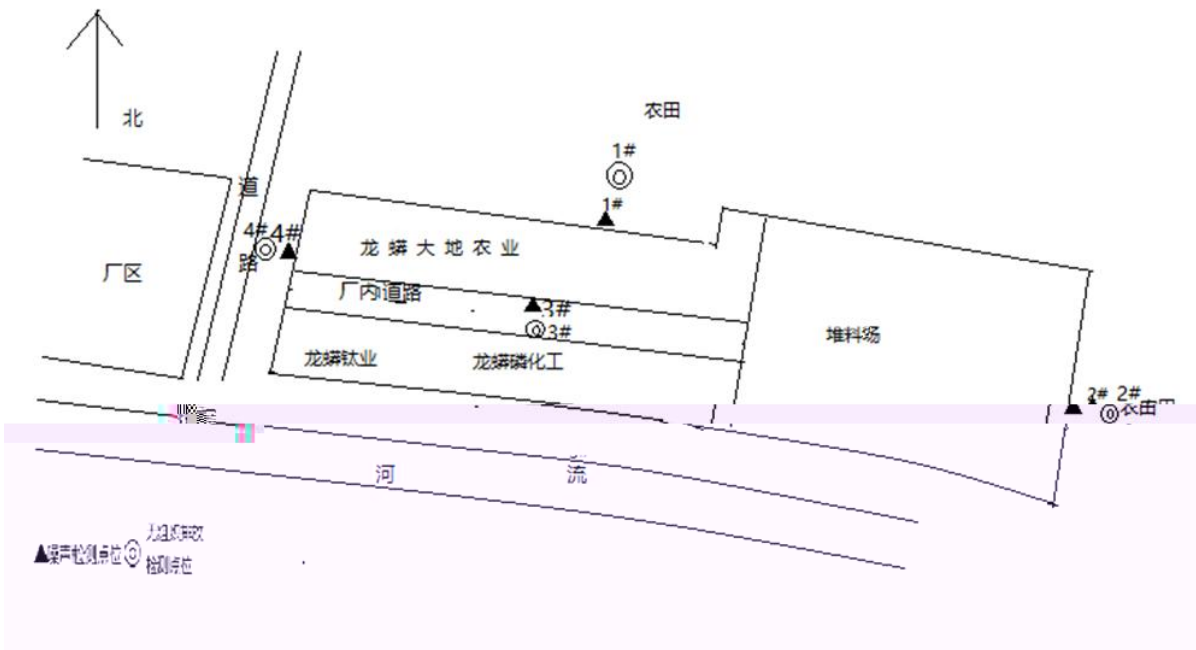
2019. 7. 6 2019. 7. 7	1#	3		2 4	ADS- 2062E
	2#	3			
	3#	3			
	4#	3			

7-4

2019. 8. 22- 2019. 8. 23	AB	4	30m			2 3	EM 3088 ZR- 3260 ZR- 3710 EM 2072A
2019. 8. 20- 2019. 8. 21	C	7	30m			2 3	
2019. 8. 24- 2019. 8. 25	D	7	30m			2 3	
2019. 8. 12- 2019. 8. 13	E	4	80m			2 3	

7-5

2019. 7. 6	(31° 11	pH			2
2019. 7. 7	51 104°			3. 5L	4
	12 57				



GB/T 15432-1995

HJ479-2009

HJ 533- 2009

GB12348-2008

GB/T16157-1996

(GB/T 14848-2017)

7.2.2

7-6

7-6

		GB12348-2008		dB(A)
		GB/T15432-1995		
		HJ 533-2009		
		HJ 479-2009		
		GB/T16157-1996		
		HJ 533-2009		
				mg/m ³
		HJ 57-2017		
PH		GB6920-86		
		GB 7477-87		
		GB/T16489-1996		
		HJ/535-2009		
		GB11896-1989		

7.2.3

7-7

7-7

dB(A)

1	1			7 6 9 02	10	47	/	65	

4	1 0.5			7 7 16 44	10	60	/	65	
1	1 0.5			7 7 22 30	10	47	53	55	
2	1 0.5			7 7 23 40	10	45	50	55	
3	1			7 7 23 14	10	54	60	55	
4	1 0.5			7 7 22 55	10	52	56	55	
GB12348-2008 3									

7-8

							(mg/m ³)	
2019.7.6	1		0.137	0.160	0.122	0.130	1	
	2		0.175	0.199	0.207	0.187	1	
	3		0.280	0.304	0.294	0.270	1	
	4		0.241	0.264	0.272	0.251	1	
2019.7.7	1		0.156	0.174	0.136	0.169	1	
	2		0.192	0.214	0.206	0.199	1	
	3		0.288	0.306	0.271	0.296	1	
	4		0.229	0.244	0.209	0.208	1	

							(mg/m ³)	
2019.7.6	1		0.13	0.13	0.12	0.14	0.20	
	2		0.14	0.13	0.13	0.16	0.20	
	3		0.12	0.14	0.12	0.13	0.20	
	4		0.13	0.13	0.13	0.14	0.20	
2019.7.7	1		0.13	0.15	0.13	0.12	0.20	
	2		0.13	0.15	0.12	0.13	0.20	
	3		0.13	0.14	0.14	0.14	0.20	
	4		0.12	0.14	0.14	0.13	0.20	
							(mg/m ³)	
22019.7.6	1		0.03	0.05	0.06	0.05	0.12	
	2		0.05	0.05	0.06	0.06	0.12	
	3		0.05	0.07	0.09	0.07	0.12	
	4		0.04	0.06	0.08	0.07	0.12	
2019.7.7	1		0.04	0.05	0.05	0.05	0.12	
	2		0.05	0.06	0.07	0.06	0.12	
	3		0.06	0.06	0.09	0.07	0.12	
	4		0.05	0.06	0.08	0.08	0.12	

	(GB16297-1996)	2
	(TJ36-79)	
	GB16297-1996	2

7-9 AB

			2019.8.22				
30		mg/m ³		410.4	410.8	/	/
		mg/m ³		31.8	33.4	120	
		kg/h		2.00	2.11	23	
		mg/m ³		317.70	317.57	/	/
		mg/m ³		37.98	38.37	/	/
		kg/h		2.38	2.43	20	
		mg/m ³	3	3	3	/	/
		mg/m ³	3	3	3	50	
		kg/h		0.19	0.19	/	/
		mg/m ³		4	4	/	/
		mg/m ³		3	3	200	
		kg/h		0.19	0.20		
			2019.8.23				
30		mg/m ³		421.5	422.0	/	/

			mg/m ³		35.1	36.2	120		
			kg/h		2.33	2.41	23		
			mg/m ³		330.72	329.28	/	/	
			mg/m ³		37.43	37.19	/	/	
			kg/h		2.48	2.48	20		
			mg/m ³	3	3	3	/	/	
			mg/m ³	3	3	3	50		
			kg/h		0.20	0.20	/		
			mg/m ³		4	4	/	/	
			mg/m ³		3	3	200		
			kg/h		0.21	0.21	/	/	
	(GB13271-2014)							2	
	(GB16297-1996)							2	
	(GB14554-93)							2	

7-10

C

			2019.8.20					
30			mg/m ³		352.7	350.4	/	/
			mg/m ³		28.1	28.6	120	
			kg/h		1.37	1.40	23	

80 /

3 /

50 /

mg/m³

309.91

308.98

/

/

mg/m³

31.72

31.86

/

/

kg/h

1.55

1.56

20

80 /	3 /	50 /	
kg/h	0.14	0.14	/ /
mg/m ³	4	4	/ /
mg/m ³	3	3	200

80 /

3 /

50 /

kg/h

80			mg/m ³	257.8	255.9	255.8	/	/		
			mg/m ³	215.1	218.2	217.4	/	/		
				mg/m ³	20	20	20	120		
				kg/h	<2.18	<2.16	<2.16	151		
				mg/m ³	20	20	20	120		
				kg/h		<1.64	<1.63	151		
				mg/m ³	256.44	258.44	256.71	/	/	
				mg/m ³	224.59	224.80	224.31	/	/	
				mg/m ³	22.80	22.94	23.09	/	/	
				kg/h		2.47	2.48	20		
					mg/m ³		20.61	19.44	/	/
					kg/h		1.69	1.59	20	
				mg/m ³	3	3	3	/	/	
				mg/m ³	3	3	3	/	/	
				mg/m ³	3	3	3	50		
				kg/h	0.33	0.32	0.32	/	/	
				mg/m ³	3	3	3	50		
				kg/h	0.24	0.25	0.24	/	/	
				mg/m ³	3	3	3	/	/	
				mg/m ³	4	4	4	/	/	

mg/m ³	3	3	200	
kg/h	0.34	0.36	/	/

mg/m ³	3	3	200	
kg/h	0.24	0.24	/	/

2019.8.13

mg/m ³	263.1	265.5	263.0	/	/
-------------------	-------	-------	-------	---	---

mg/m ³	224.1	227.2	221.1	/	/
-------------------	-------	-------	-------	---	---

mg/m ³	20	20	20	120
-------------------	----	----	----	-----

kg/h	<2.14	<2.17	151
------	-------	-------	-----

mg/m ³	20	20	20	120
-------------------	----	----	----	-----

kg/h	<1.63	<1.64	151
------	-------	-------	-----

mg/m ³	253.31	254.13	253.77	/	/
-------------------	--------	--------	--------	---	---

mg/m ³	221.48	221.40	221.49	/	/
-------------------	--------	--------	--------	---	---

mg/m

							250	mg/L		/
	2019.7.7	pH					6.5-8.5	/		/
							0.50	mg/L		/
							450	mg/L		/
							0.02	mg/L		/
							250	mg/L		/
		(GB/T 14848-2017) 1								

80 /

3 /

50 /

2019.7.6 7 1 -4

2019.8.12 13 E

2019.8

20 21

C

2019.8.22 23

AB

2019.8.24 25 D

2019.8.22-	AB						
		88.0%	92.1%	88.0%	92.3%	87.9%	91.9%
2019.8.23		88.7%	91.5%	88.7%	91.7%	88.7%	91.4%
2019.8.20	C	89.8%	92.2%	89.8%	92.0%	89.7%	91.8%
2019.8.21		90.1%	92.2%	90.1%	92.3%	90.0%	92.1%
2019.8.24		91.0%	91.1%	91.0%	90.9%	91.0%	90.8%

2019.8.25	D		90.8%	91.1%	90.9%	91.2%	90.9%	91.1%
2019.8.12	E		91.1%	92.9%	91.1%	92.8%	91.0%	92.7%
			91.3%	93.7%	90.8%	94.0%	91.3%	94.1%
2019.8.13	E		91.2%	92.6%	91.2%	92.8%	91.2%	92.6%
			91.4%	93.4%	91.5%	93.3%	91.5%	93.1%

SHE

" " 2014 8
2014 19
[2014]133

9-1

9-1

15m	<p>1# (A B) "</p> <p>+ "</p> <p>2# (C D)</p> <p>" + +</p> <p>"</p> <p>30m</p> <p>3# (E)</p> <p>" + +</p> <p>"</p> <p>80m</p>	
30m ³	12m ³	
GB8978-1996	GB8978-1996	
" "	"	
1~4# 200m	1# 200m	

150m³

80

”

HJ-944-2018

10.5

10.5.1

10.5.2

10.5.3

10.5.4

