

0660-33*19**

0660-33*78**

516600

0769-27*328**

0769-22*903**

523200

1	.....	1
2	.....	3
3	.....	4
3.1	.....	4
3.2	.....	7
3.3	.....	9
3.4	.....	9
3.5	.....	11
3.6	.....	13
3.7	.....	17
4	.....	19
4.1	/	19
4.1.1	.....	19
4.1.2	.....	23
4.1.3	.....	30
4.1.4	.....	30
4.2	.....	35
4.2.2	.....	37
5	.....	38
5.1	.....	38
5.2	.....	40
6	.....	42
6.1	.....	42
6.2	.....	42
6.3	.....	43
6.4	.....	43
7	.....	44
7.1	.....	44
7.2	.....	46
8	.....	48
8.1	.....	48
8.2	.....	51
8.3	.....	51
8.4	.....	55
8.5	.....	63
9	.....	64
9.1	.....	64

9.2	.....	64
9.2.1	.....	64
9.2.2	.....	75
9.2.3	.....	79
9.2.4	.....	79
9.3	.....	79
10	.....	81
11	.....	83
12	.....	88
12.1	.....	88
12.2	.....	88
12.3	.....	89
12.4	.....	89
12.5	.....	89
12.6	.....	90

1

2016 7

26 4

48

3.5 600mm*720mm

2017 3

5 28

2017 116

2

2017 6

9

2017 6

4415022017000002

3

<

>

682

<

>

682

13

2017 9

4 10

<
> [2017]1529 <
>
[2017]1235

2017 11 14

2

1 682 <
> 2017 10 1
2 1994 7 6 2012 7
26
3 1999 61 <
>
4 13
2002 2 1
5 2000 38
2000 2 22
6 [2012]21 <
> < >
2012 2 8
7 [2017]1529 <
> 2017
9 29
8 [2017]1235 <
>
2017 8 3
9
2017 3
10 2017 116
2017 5 28
11 26
2016 4
12 3
2014 7

3

3.1

1

26

4

115°23 11

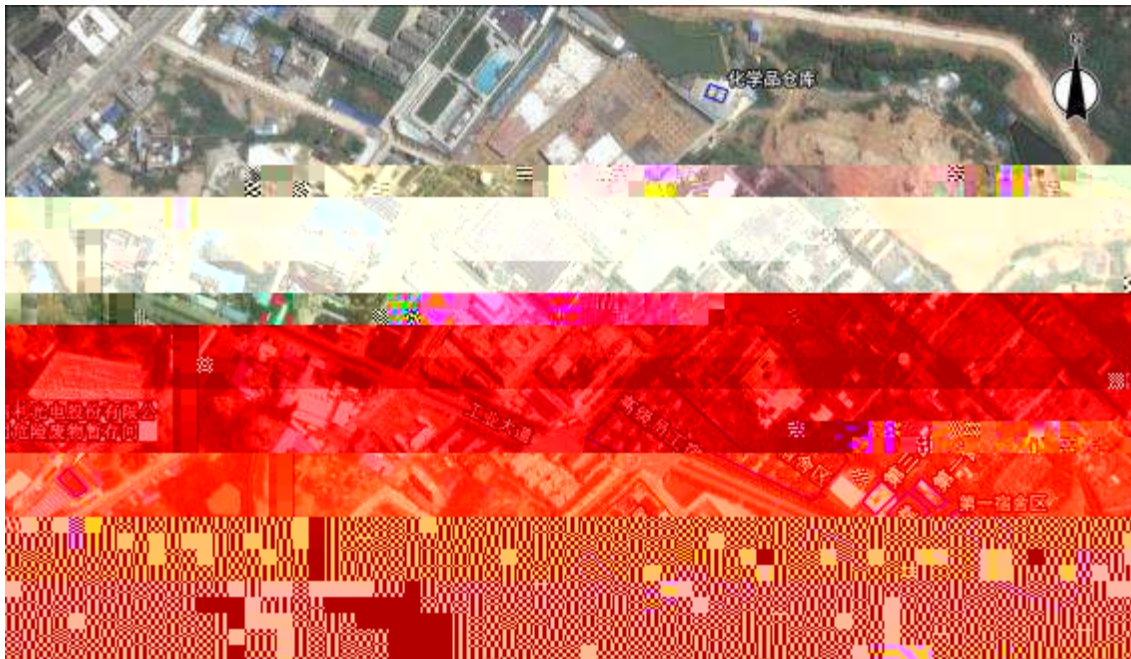
22°47 31

3.1-1

3.1-2



3.1-1



3.1-2

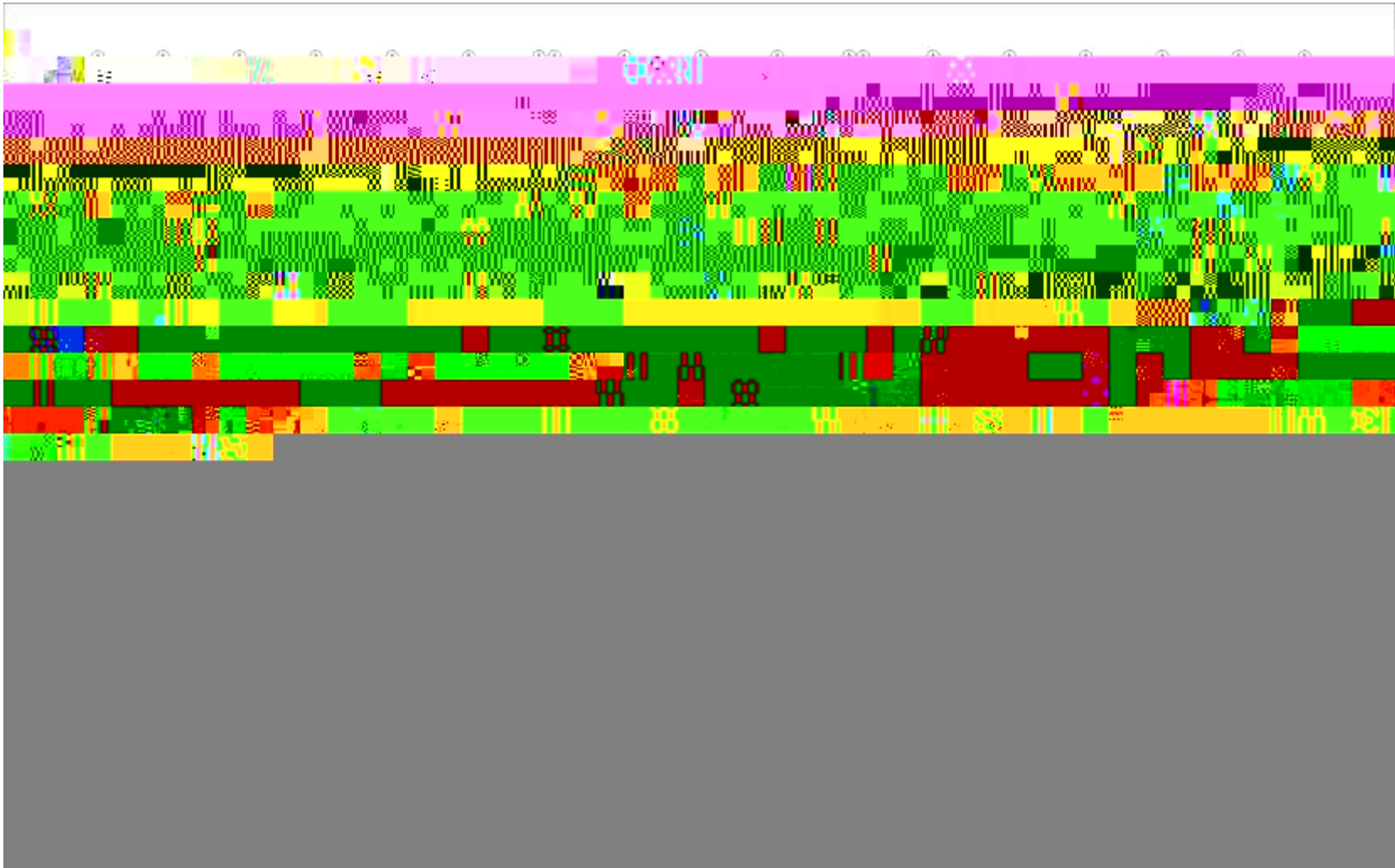
2

26

4

UPS

3.1-3



3.1-3 26 4

3.2

1

3.5 1280 / 38.4 / 1600 / 48 /

3.2-1

3.2-1

3.5	600mm*720mm	1600 /	1280 /
-----	-------------	--------	--------

2

10000m² 4 26 4 26 10000m²
 40000m² 26

3.2-2 26

			10000m ²	2017
			10000 m ²	193
	TDD5		5000m ²	2017
	SMD()		5000m ²	181 2016 271 2016 SMD_
			10000 m ²	[2017]117

3

3.2-3

3.2-3

3.4-1

1			40,000	32000	-8000	Sheet
2	BM		956	760	-196	L
3	OC2		1,499	1200	-299	L
4			2,863	2290	-573	L
5	OC1		1,260	1000	-260	L
6		PMA	4,200	3360	-840	L
7	BM/OC		5,328	4260	-1068	L
8	ITO/Metal		7,200	5760	-1440	L
9	ITO		7,600	6000	-1600	L
10	Metal		3,200	2560	-640	L
11	ITO/Metal		13,800	11000	-2800	L
12			2,460	2000	-460	L
13			672	530	-142	L
14	MO	Mo	4	3	-1	
15	AL	Al	4	3	-1	
16	ITO		8	6	-2	

2

26 1 DI

20 m³/h

DI

1

40m³/h

1

3.4-2

3.4-2

1		KW/a	1500	900	
2		m ³ /d	1000	800	
3	DI	m ³ /d	704	563.2	
4		m ³ /a	4320	3456	

3.5

RO

3.5-1

3.5-1

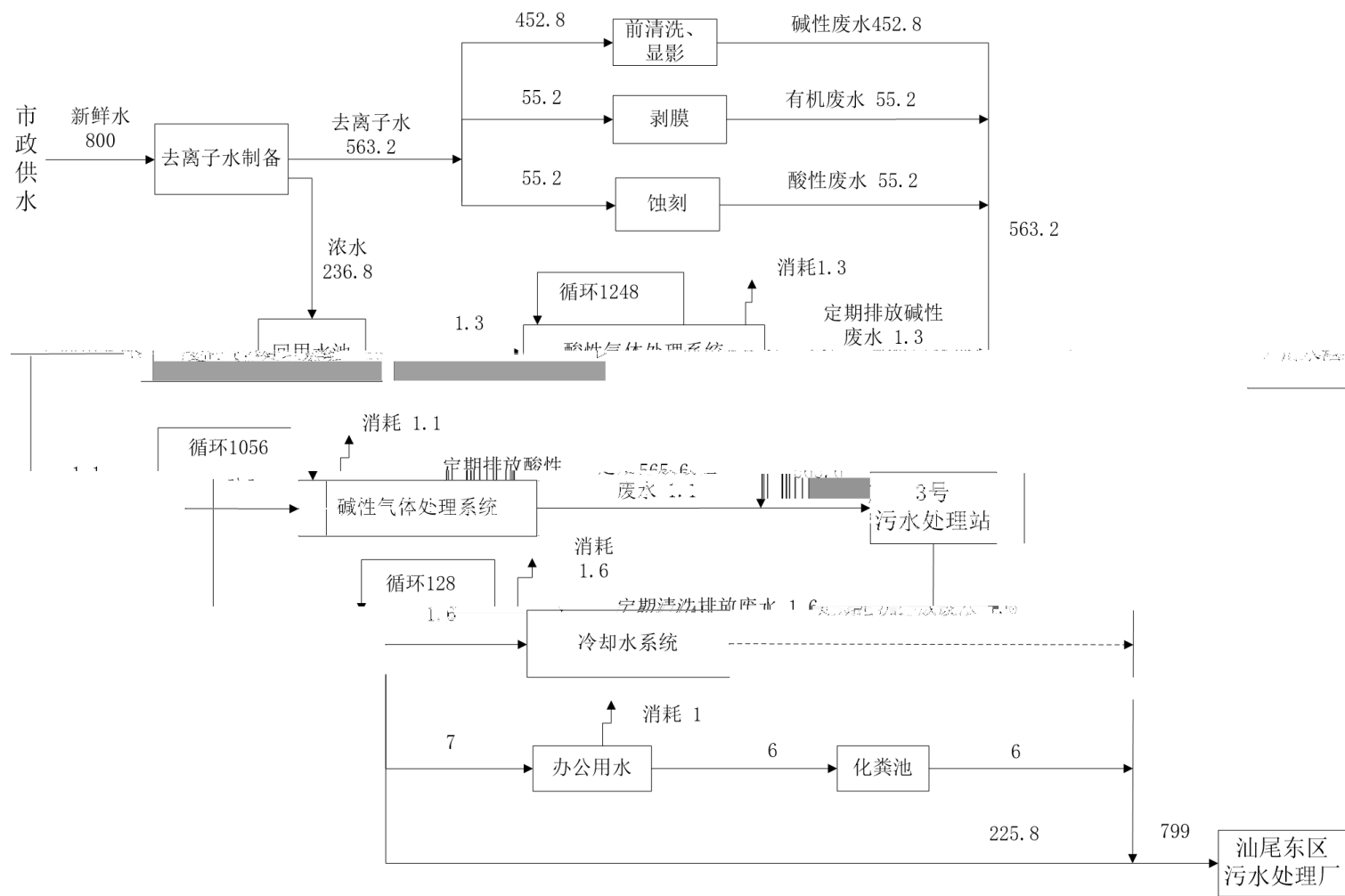
m³/d

1000	DI	704		566	566	
				69	69	
				69	69	
	RO	296		1.6	1.6	1560
				1.4	1.4	1320
				2	2	160
				7	6	
		RO		—	284	
			1000	999	3	
			3040		709	

3.5-2

m³/d

800	DI	563.2		452.8	452.8	
				55.2	55.2	
				55.2	55.2	
	RO	236.8		1.3	1.3	1248
				1.1	1.1	1056
				1.6	1.6	128
				7	6	
		RO		—	225.8	
			800	799	3	
			2432		565.6	

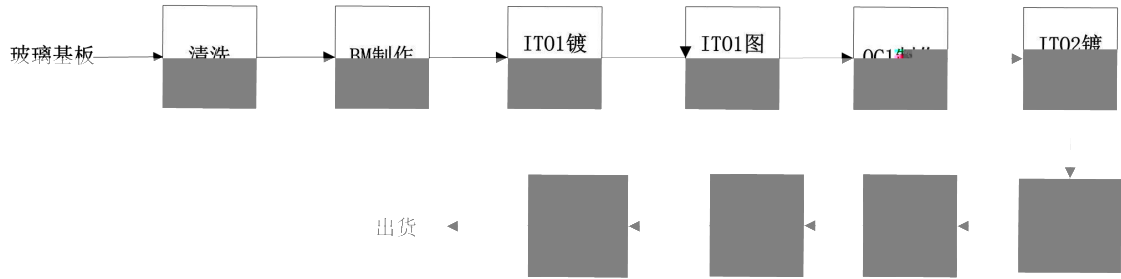


3.5-1

3.6

2.2-1

BM OC ITO ITO



3.6-1

1

DI

3

2 ITO

(Physical Vapor Deposition)

AL)

(
(patterned)

3 BM

OC

BM

OC

OC

BM

OC

(photo mask)

(photo resist)

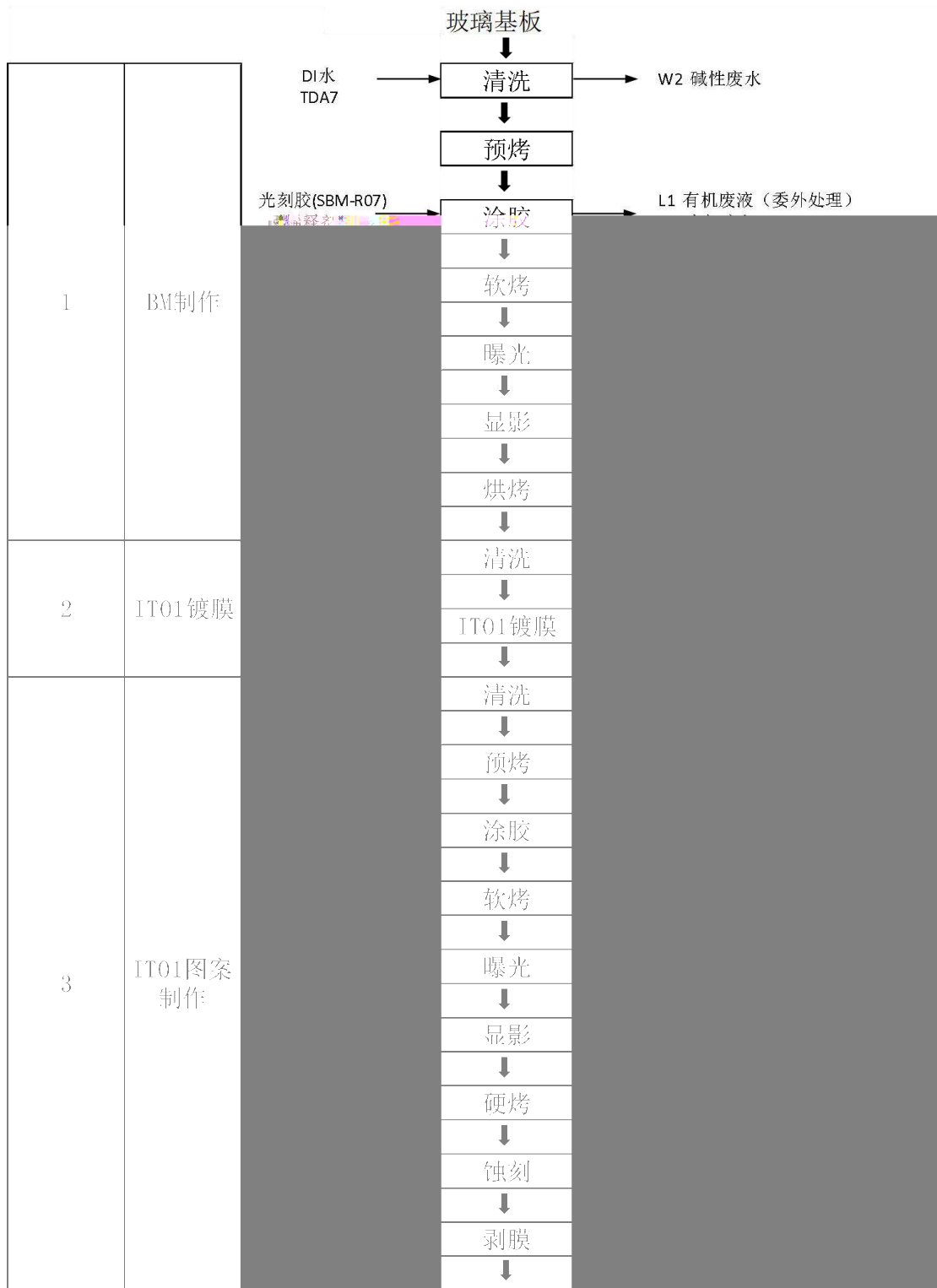
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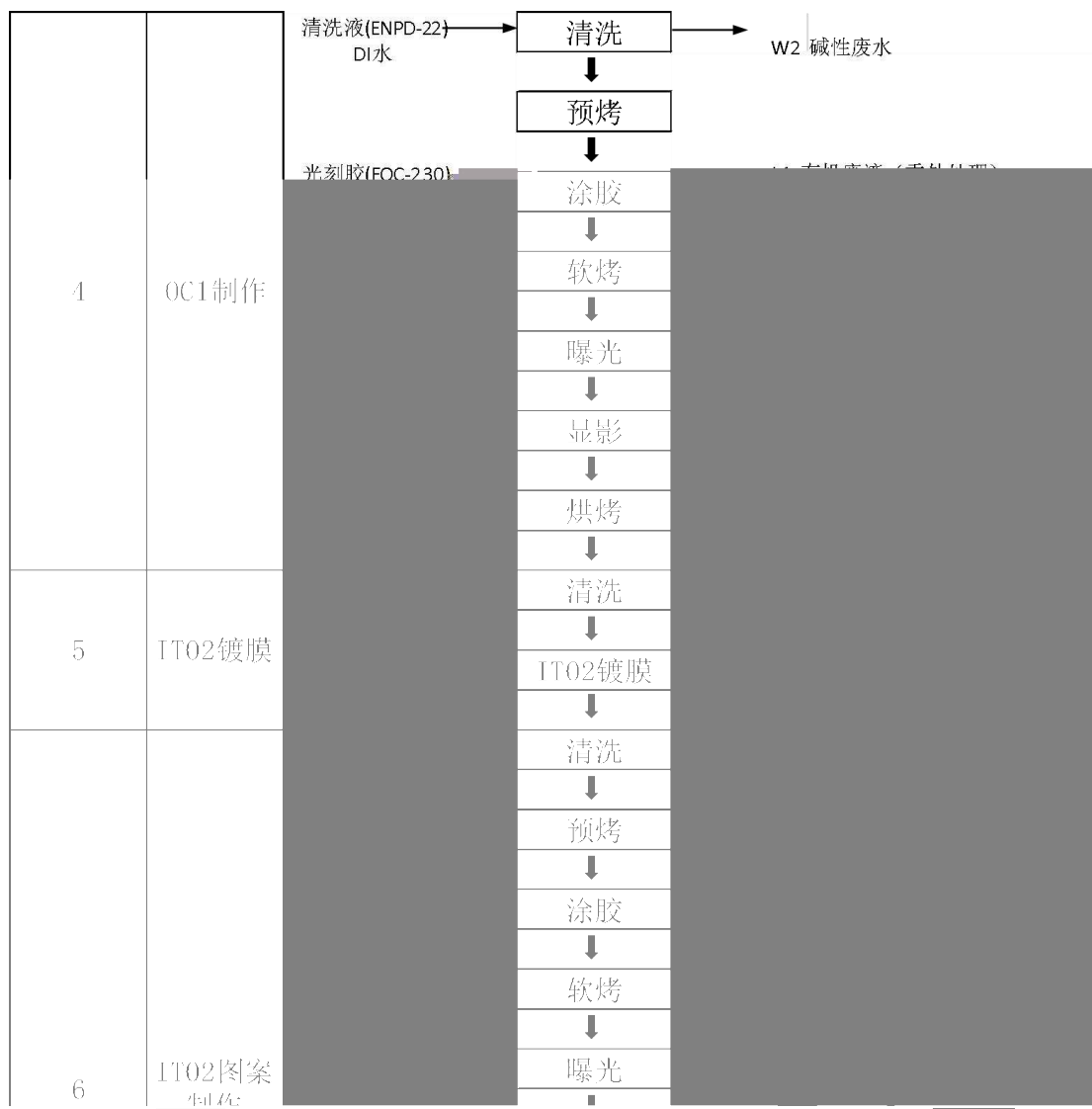
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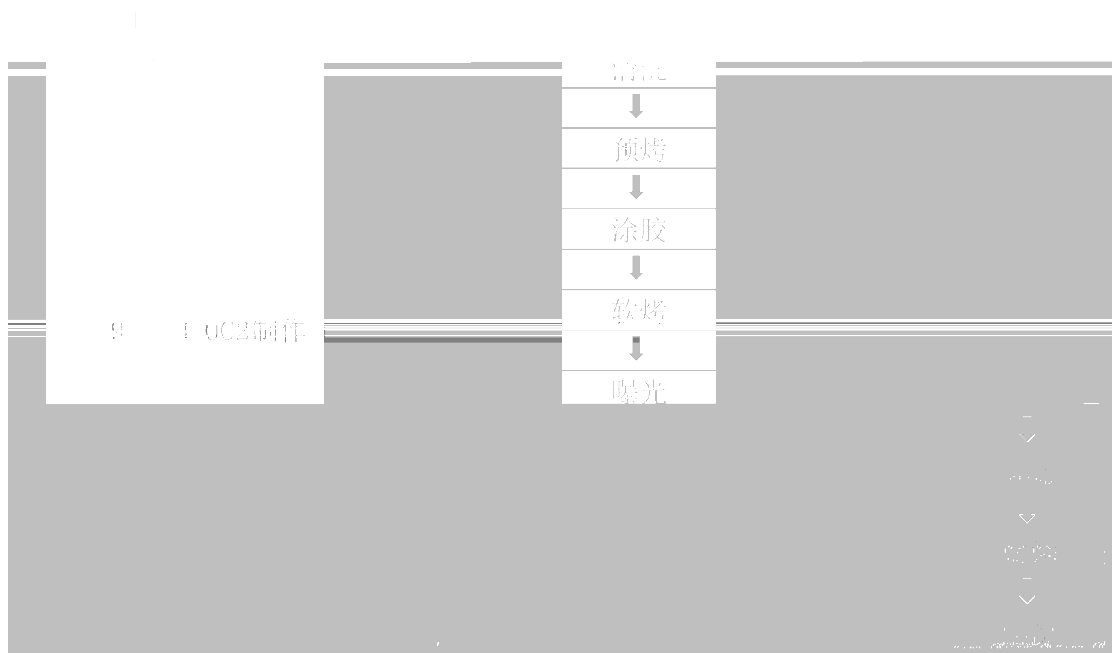
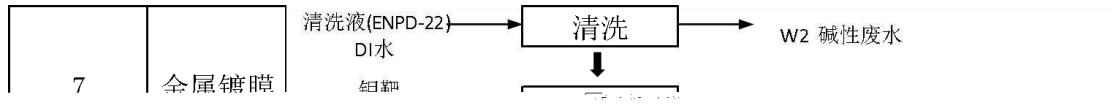
4 ITO

(Wet Etching)

5







3.6-2

3.7

3.7-1

3.7-1

		1 1	1	
		1 1	1	
		1 1	1	

4

4.1 /

4.1.1

RO

RO

RO

RO

pH

COD BOD₅ SS

4.1-1

2			SS OH ⁻ NH ₄ -N	3
			OH ⁻	
			H ⁺ COD BOD ₅ SS	
			H ⁺	
	RO			
			pH COD BOD ₅ SS	
			COD BOD ₅ SS NH ₃ -N	

2

DB44/26-2001

26 3

3

26 11 2015

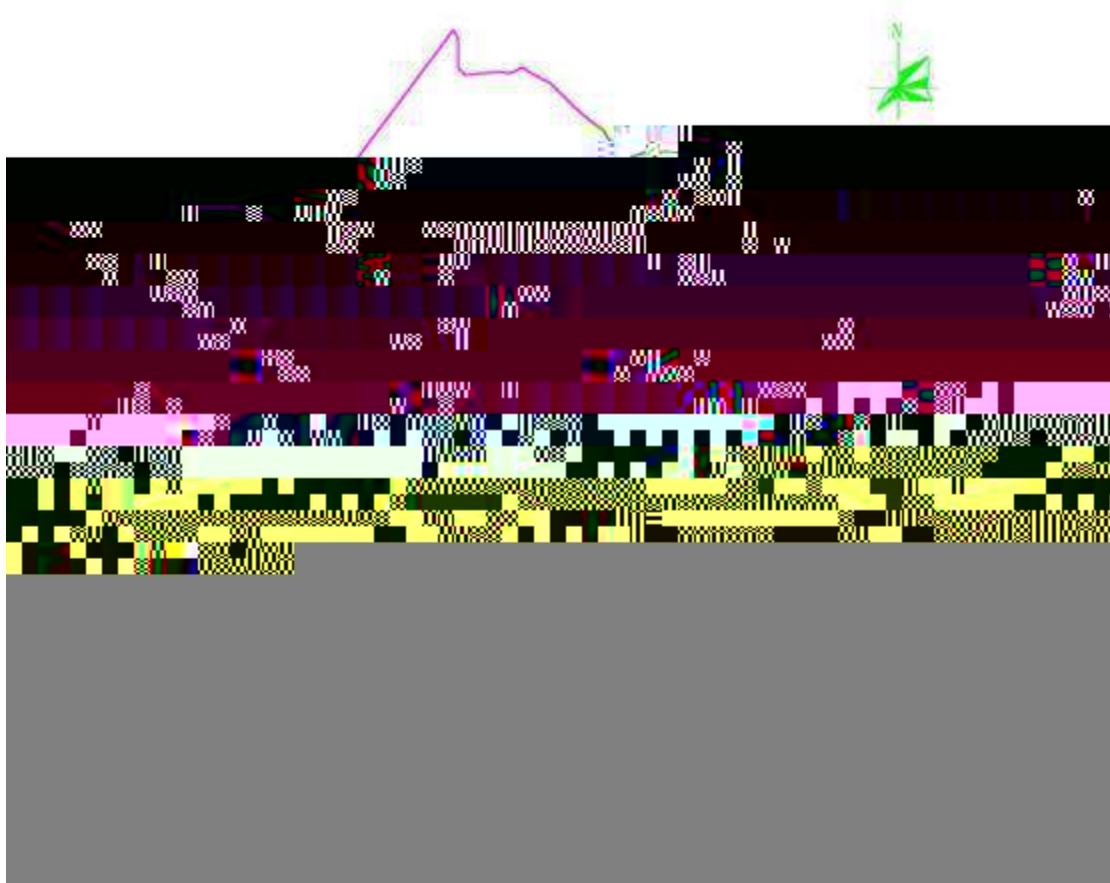
6 4 2015 106 3

7

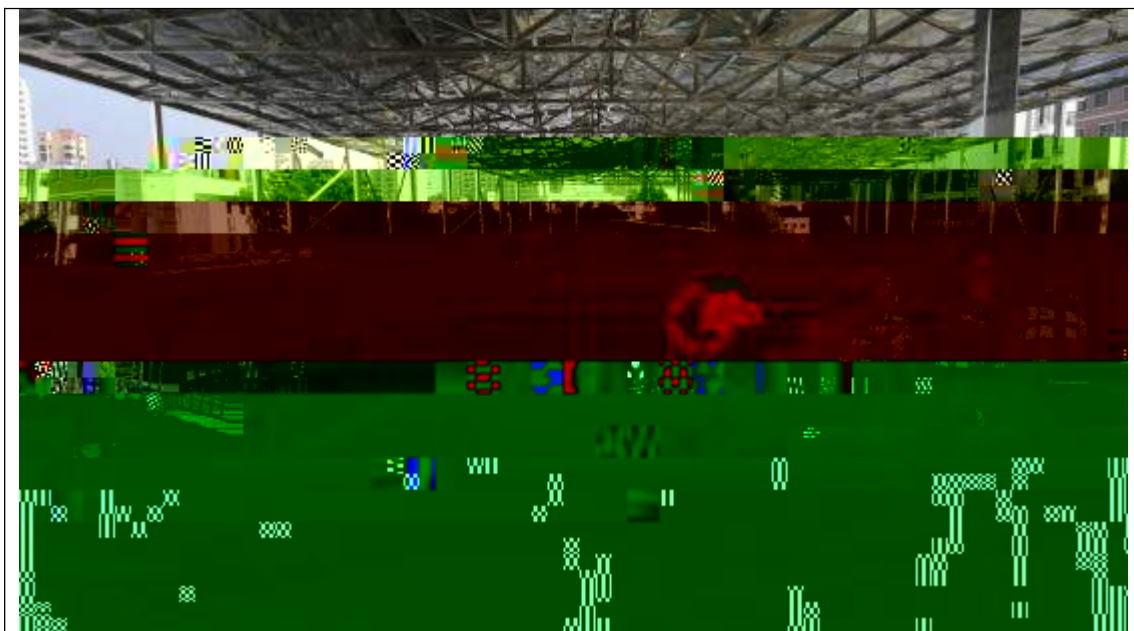
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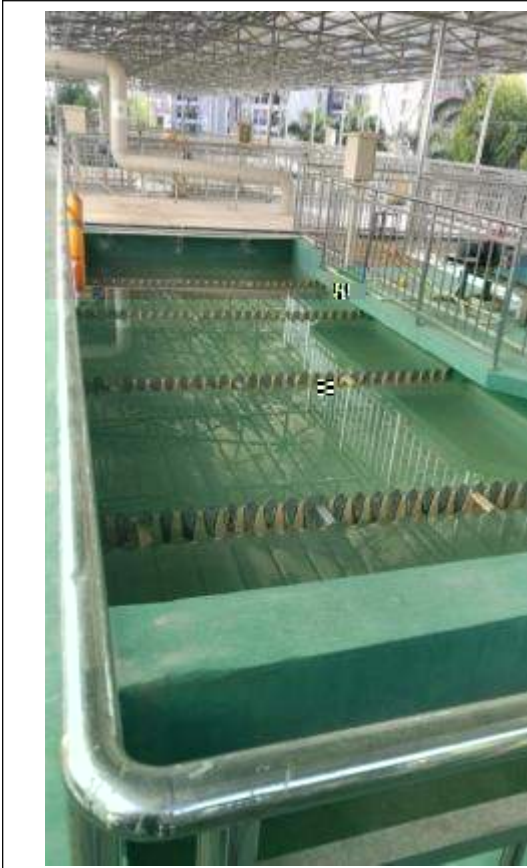
2500m³/d 200m³/d

3 3



4.1-2 26





4.1-3 3

4.1.2

1

3



		NH ₃ KOH	
		HCl NO _x	

4.1-3

	m)	m)	m ³ /h	
	34	0.75	20000	1
	34	0.95	30000	1
	34	0.75	20000	1

2

26

Ã

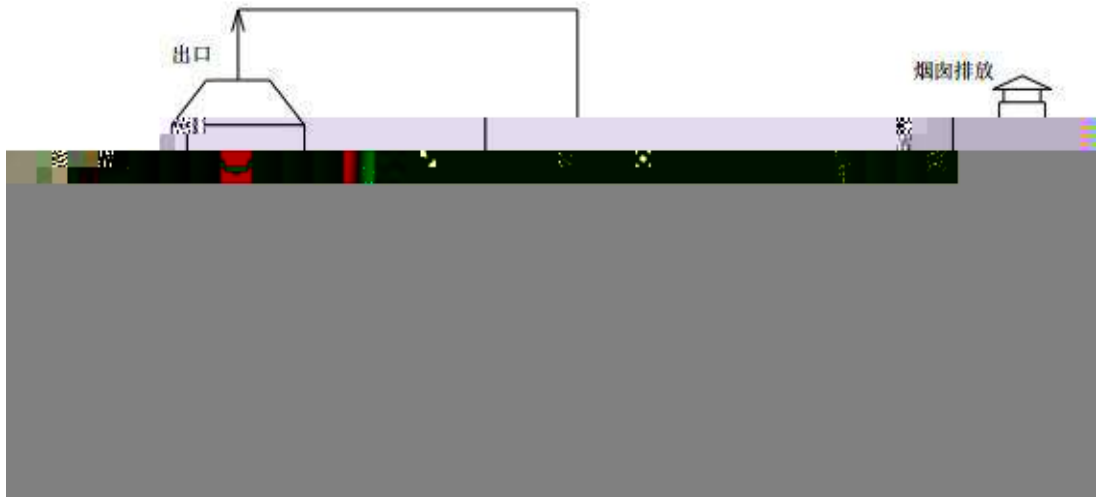
NaOH

NaOH

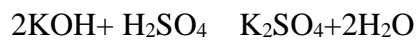
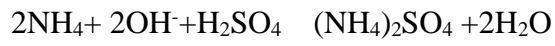
NaCl NaNO₃ CH₃COONa

Na₃PO₄





4.1-4

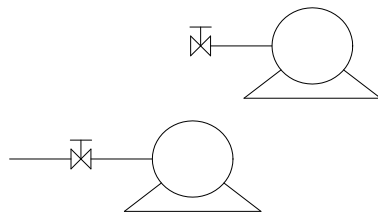


34m

4.1-5

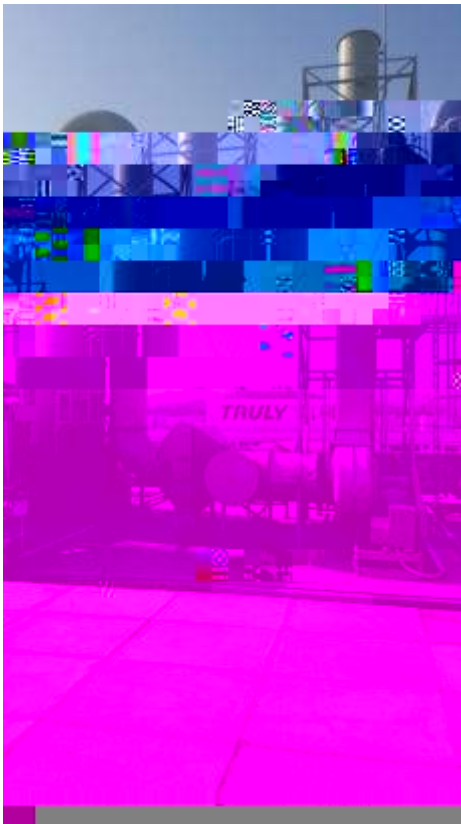
4.1-5

4.1-6





-



-

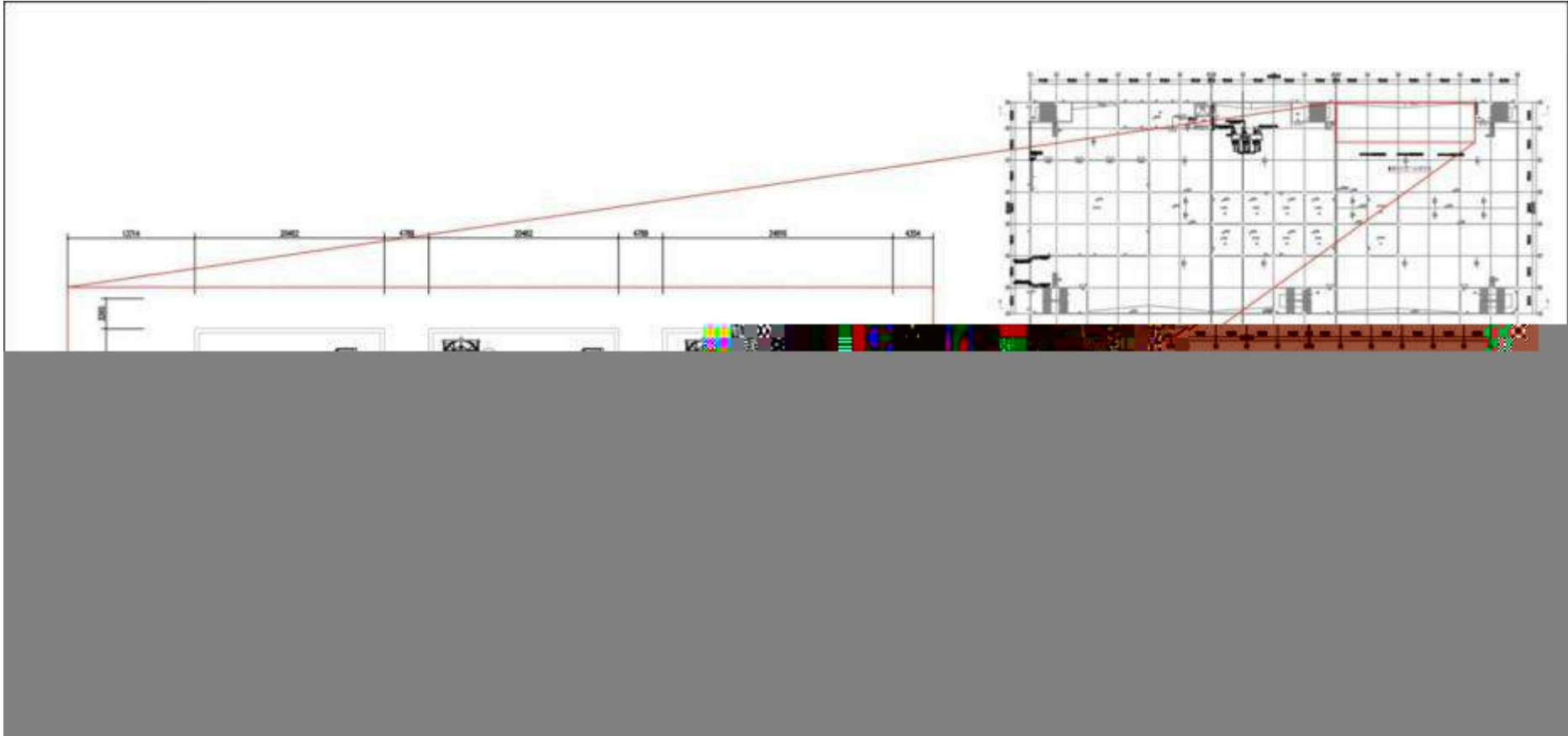


-



-

4.1-7 26 4



4.1-8 26 4

4.1.3

1

2

3

4

4.1.4

1

26 1

9

9

4.1-4

							t/a	t/a	t/m ⁹ -12	t	
1	SBM-R07			T	HW06	900-404-06	5.74	5.2	1.7	/	
2	SOC-1009U			T	HW06	900-404-06	8.99	7.6	2.5		
3	IP-100			T	HW06	900-404-06	17.52	11.6	3.9		
4	PMA			T	HW06	900-404-06	14.7	10.8	3.6		
5	SR-215			T	HW06	900-404-06	96.66	20	6.7		
6				T/In	HW49	900-041-49	30	4	1.3	7.5	
7	ITO		HNO ₃ HCl	C	HW34	397-007-34	59.1	20.6	6.9	/	
8				C	HW34	397-007-34	34.5	16.8	5.6	/	
9	ENPD22		KOH	C	HW35	900-356-35	33.25	20.5	6.8	/	
10	TSP-01			C	HW35	900-356-35	504.7	80.6	29	/	
11				T/In	HW49	900-041-49	60	12	4	/	
12				T	HW13	900-015-13	3t/a	3t/a	1	/	

2

ITO

AI

ITO

AI

3

3

3

1

3

1

12

3

2016

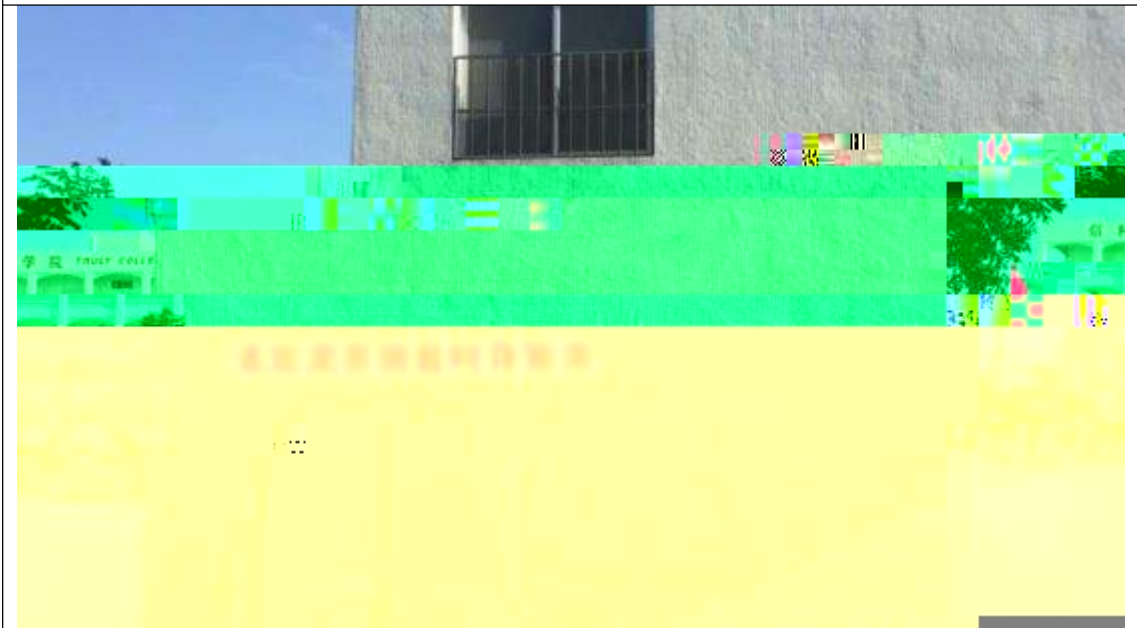
3

4.1-5

ITO		40	32	
		25	20	
AI	AI	20	15	
		30	25	
		70	48	
		200	150	
		26.25	18	



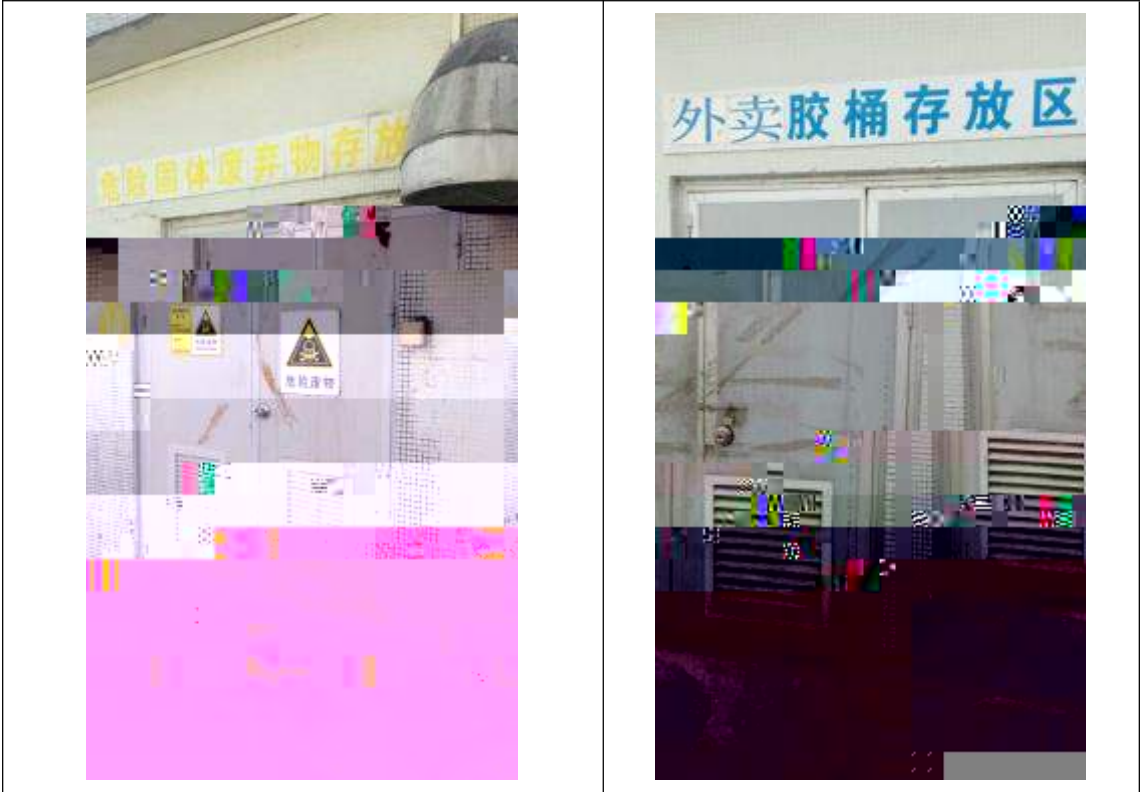
26



26

4.1-9 26 1

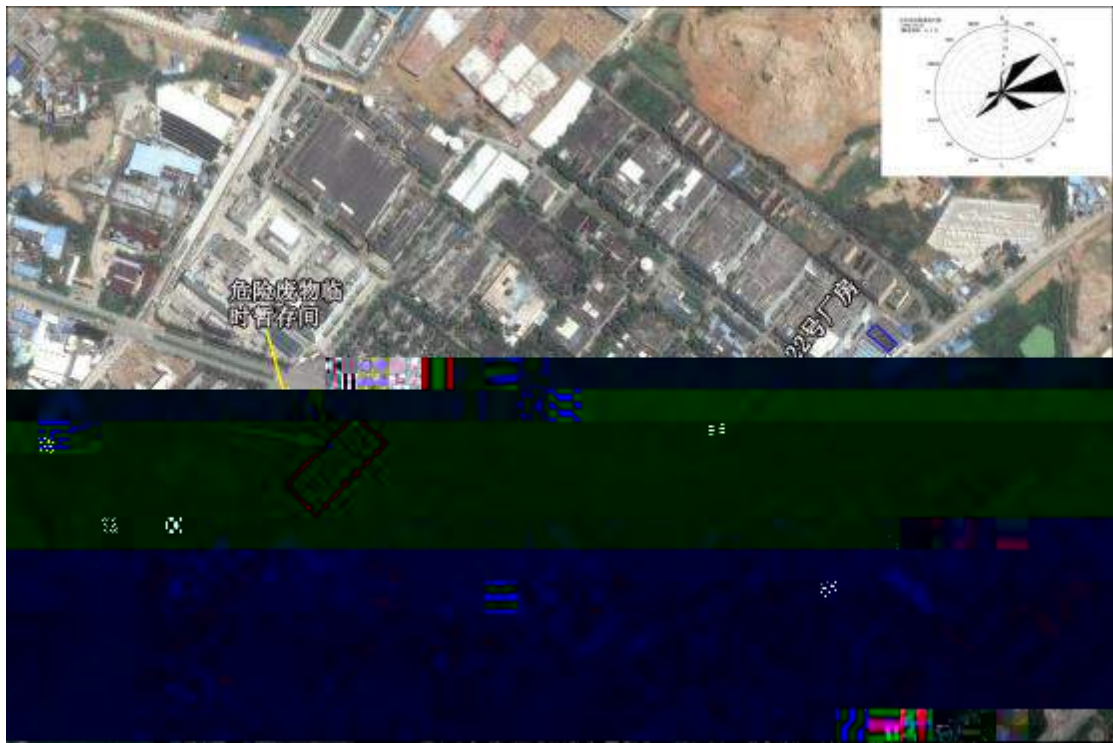
4.1-10



4.1-10



4.1-11 26



4.1-12

4.2

1

2

3

2016 12 16

11

4

4.2-1

4.2-1

1		
2		
3		
4		
5		
6		
7		
8		
9		

10

11

5

5.1

1

SCREEN3

10%

40%

2

3

(DB44/26-2001)

(DB44/26-2001)

GB 18599-2001

GB 18597-2001

3

3

340 m³

3

- HJ2.4-2009

47.87 59.74dB(A)

GB12348-2008 2

1

47.79 50.16dB(A)

GB3096-2008 2

4

5

5.2

2017 5 28

2017 116 2

26

10000m²

3.5 48 / 600mm 720mm
175 8 300
1 500

DB44/26-2001

DB44/26-2001

GB/T31962-2015 B

DB44/27-2001

GB14554-93 VOCs

(DB44/815-2010)

GB12523-2011

(GB12348-2008)2

GB18597-2001

6

2017 116

6.1

26

3

(DB44/26-2001)

DB44/26-2001

GB/T31962-2015 B

6.1-1

6.1-1

mg/L pH

		(DB44/26-2001)	(DB44/26-2001) GB/T31962-2015 B
1	pH	6-9	6-9
2	COD	90	500
3	BOD ₅	20	300
4	NH ₃ -N	10	45
5	TP	0.5	
6	SS	60	400
7		5.0	20
8		5.0	20
9		10	100
10		0.3	2.0

6.2

DB44/27-2001

GB14554-93

VOCs

(DB44/815-2010)

6.2-1

6.2-1

	mg/m ³	kg/h	mg/m ³	
	120	2.32	0.12	DB44/27 -2001
	100	0.78	0.2	
VOCs	120	2.5	2.0	(DB44/815-2010)
NH ₃	/	27	1.5	GB14554-93

34

200m

50%

VOCs

34

50%

6.3

GB12348-2008 2

6.3-1

Leq[dB(A)]

2	60	50	GB12348-2008 2

6.4

GB18599-2001 2013

GB18597-2001 2013

7

7.1

2017 10 13 ~14 3

W1 W2

W3 W4

1 2017 10 13 10 14 2

2

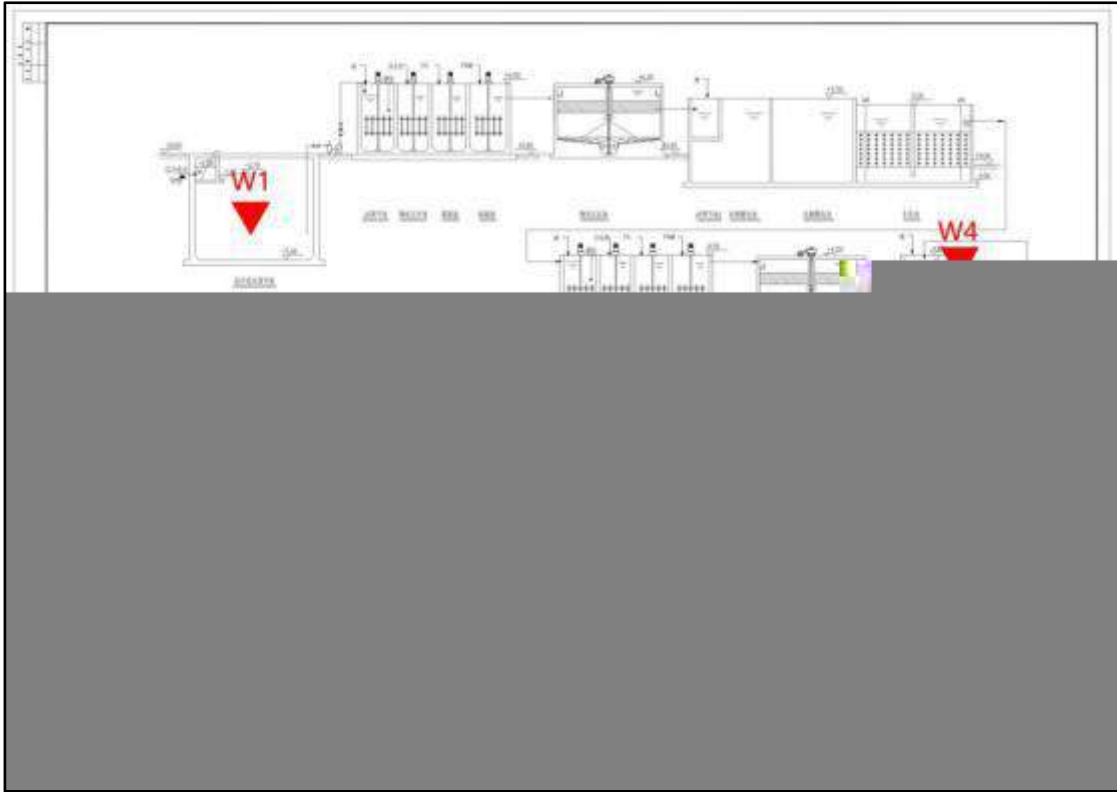
3 7.1-1

7.1-1

W1		pH COD _{Cr} BOD ₅	2
W2			
W3			
W4			
W5			

3

7.1-1



7.1-1 3

2017 10 13 ~14

7.1-2 7.1-2

7.1-2

			G1	NOx HCl	2 3
			G2	NH ₃	
			G3	VOCs	

2017 10 13 ~2017 10

14 1 5

1 2017 10 13 ~10 14

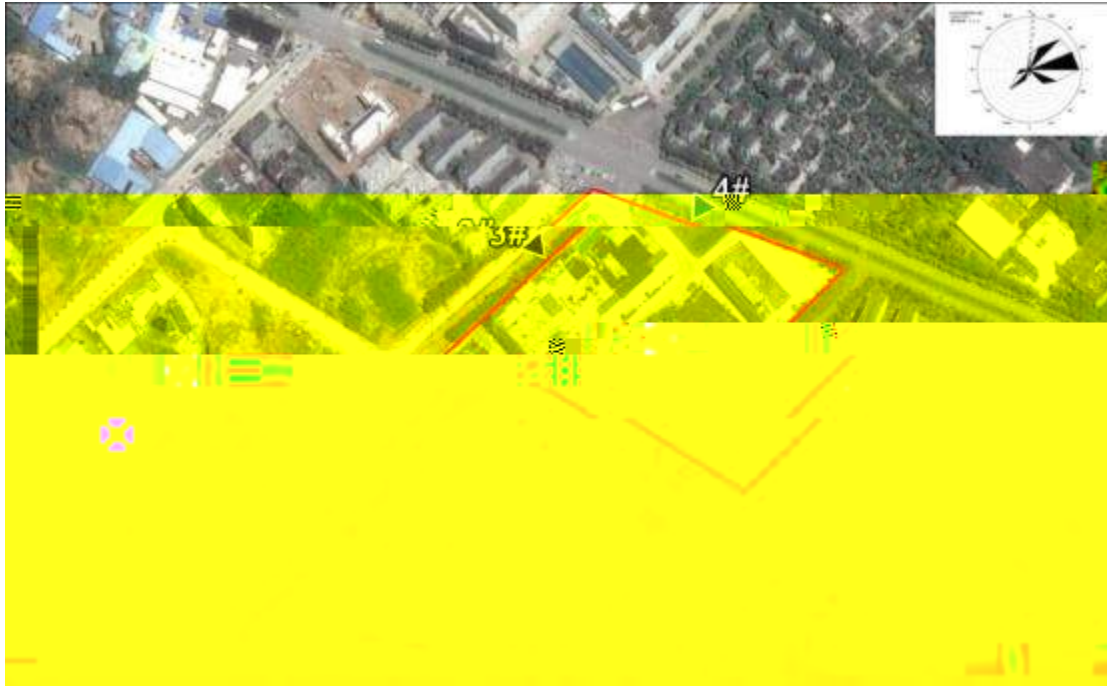
2

7.1-3

7.1-2

7.1-3

1#	26	1	L _{Aeq}	2
2#		1		
3#		1		
4#		1		



7.1-2

7.2

2017 10 13 ~15 1

10 13~14

7.1-2 7.1-2

7.2-1 1

1	SO ₂ NO ₂ PM ₁₀ PM _{2.5} TSP NO _x HCl VOCs	3
	L _{Aeq}	2



7.2-1

8

1

2

10%

3

4

10%

10

1

5

1

$\pm 10\%$

6

10%

10

1

0.5-2.0

3

90%

7

20-30

8.1

1

16		HJ 503-2009	4-	TU-1810	0.01mg/L
17		HJ 637-2012		OIL460	0.04mg/L
18		GB/T 7494-1987		TU-1810	0.05mg/L

2

8.1-2

8.1-2

1		HJ/T 43-1999		TU-1810	0.7mg/m ³
2		HJ 549-2016		CIC-260	0.2mg/m ³
3		HJ 533-2009		TU-1810	0.25mg/m ³
4	VOC _s	DB 44/815-2010 D	VOC _s	GC-2014C	0.5μg/m ³
5		HJ 482-2009	-	TU-1810	0.004mg/m ³ ()
6		HJ 479-2009		TU-1810	0.003mg/m ³
7	PM ₁₀	HJ 618-2011	PM ₁₀ PM _{2.5}	ME-104E	0.010mg/m ³
8	PM _{2.5}	HJ 618-2011	PM ₁₀ PM _{2.5}	BT125D	0.010mg/m ³
9		GB/T 15432-1995		ME-104E	0.001mg/m ³
10		GB 50325-2010 G	TVOC	GC-2014C	0.5μg/m ³

3

8.1-3

8.1-3

8.1-3

L _{Aeq}	GB 12348-2008		AWA5688	35~130dB A

8.2

2017 10 13 ~14

8.2-1

1		4			JC2016-6053
2		5			JC2016-6523
3		1			JC2017-7301
4		1			JC2017-7304
5		4			JC2017-7305
6		4			JC2017-6548
7		2			R 2937
8		2			JC2016-6519
9		2			JC2016-6170
10		3			JC2016-6049
11		2			R 2939
12		1			JC2016-6520
13		8			JC2016-6518
14		2			R 2943
15		1			JC2017-7300
16		1			JC2017-7299
17		2			JC2016-6170
18		6			JC2015-5505
19		6			JC2017-6547
20		3			JC2016-6059

8.3

8.3-2

mg/L

		2017-10-13			2017-10-14				
		1	2		1	2			
1		12.0	11.0	4.3	13.0	12.0	4.0	20	
		168	159	2.8	165	161	1.2	10	
2		3.70	3.40	4.2	3.90	3.60	4.0	20	
		45.50	44.20	1.4	45.70	44.40	1.4	20	
3	N	0	0	0.0	0	0	0.0	20	
		4.06	3.98	1.0	3.84	3.73	1.5	10	
4		0.04	0.04	0	0.04	0.03	14	10	
		0.30	0.29	2	0.33	0.26	12	10	
5		0.95	0.92	1.6	1.32	1.1	9.1	10% 1.0	1.0 5%
		20.20	19.80	1.0	19.50	18.40	2.9	10	
6		ND	ND	0.0	ND	ND	0.0	25	
		ND	ND	0.0	ND	ND	0.0	25	
7		ND	ND	0.0	ND	ND	0.0	15	
		ND	ND	0.0	ND	ND	0.0	15	
8		0.59	0.58	0.9	1.35	1.30	1.9		
		0.68	0.65	2.3	1.40	1.37	1.1		
9		ND	ND	0.0	ND	ND	0.0	30	
		ND	ND	0.0	ND	ND	0.0	30	
10		ND	ND	0.0	ND	ND	0.0	20	
		ND	ND	0.0	ND	ND	0.0	20	
11		ND	ND	0	ND	ND	0	15	
		ND	ND	0	ND	ND	0	15	
12		ND	ND	0.0	ND	ND	0.0	30	
		ND	ND	0.0	ND	ND	0.0	30	
13		ND	ND	0.0	ND	ND	0.0		
		ND	ND	0.0	ND	ND	0.0		
14		ND	ND	0.0	ND	ND	0.0		
		ND	ND	0.0	ND	ND	0.0		
15		0.08	0.10	11.0	ND	ND	0.0	0.05 25% 0.05	
		0.12	0.10	9.1	ND	ND	0.0	1.0 15% 1.0 15%	

								0.05	1.0 10%
		2017-10-13			2017-10-14				
		1	2		1	2			
16		0.39	0.35	5.4	0.86	0.83	1.8		
		0.82	0.78	2.5	0.39	0.40	1.3		
17		0.061	0.050	9.9	0.061	0.052	8.0	25	
		ND	ND	0.0	ND	ND	0.0	25	

8.3-3

mg/L

		2017-10-13		2017-10-14	
		1	71.9	72.8±4.9	73.1	72.8±4.9
	20.1	19.7±1.2	19.6	19.7±1.2	
2		105	103±8	102	103±8
		103	103±8	105	103±8
3	N	3.52	3.45±0.19	3.49	3.45±0.19
		3.56	3.45±0.19	3.50	3.45±0.19
4		2.95	2.92±0.18	1.42	1.40±0.08
		2.96	2.92±0.18	1.45	1.40±0.08
5		1.45	1.40±0.08	1.35	1.40±0.08
		1.38	1.40±0.08	1.42	1.40±0.08
6		0.828	0.810±0.038	0.816	0.810±0.038
		0.825	0.810±0.038	0.823	0.810±0.038
7		1.81	1.77±0.08	1.77	1.77±0.08
		1.75	1.77±0.08	1.82	1.77±0.08
8		2.46	2.40±0.14	2.32	2.40±0.14
		2.46	2.40±0.14	2.50	2.40±0.14
9		6.50	6.68±0.73	6.70	6.68±0.73
		6.64	6.68±0.73	6.86	6.68±0.73
10		0.828	0.810±0.038	0.841	0.810±0.038
		0.825	0.810±0.038	0.835	0.810±0.038
11		0.302	0.299±0.011	0.298	0.299±0.011
		0.306	0.299±0.011	0.296	0.299±0.011
12		0.628	0.621±0.025	0.622	0.621±0.025

		2017-10-13		2017-10-14	
		0.615	0.621±0.025	0.635	0.621±0.025
13		0.725	0.706±0.035	0.735	0.706±0.035
		0.714	0.706±0.035	0.728	0.706±0.035
14		0.208	0.200±0.013	0.210	0.200±0.013
		0.206	0.200±0.013	0.201	0.200±0.013
15		33.1	33.6±2.0	33.5	33.6±2.0
		34.2	33.6±2.0	34.8	33.6±2.0

8.4

GB/T 16157-1996 4

8.4-1

				%		%		%		%		
VOCS		76	6	100	/	/	/	/	/	/	/	/
			/	/	4	5.2	0.22	0.28	4	100	/	/
			/	/	/	/	/	/	/	/	/	/
		83	7	100	/	/	/	/	/	/	6	100
			/	/	/	/	/	/	/	/	/	/
			/	/	/	/	/	/	/	/	/	/
		150	10	100	/	/	/	/	/	/	8	100
			/	/	/	/	/	/	/	/	/	/
			/	/	/	/	/	/	/	/	/	/
		36	4	100	/	/	/	/	/	/	/	

			%		%		%		%		%
		/	/	/	/	/	/	/	/	/	/
		/	/	/	/	/	/	/	/	/	/

8.4-2

2017-10-14

2017-10-15

	2017-10-14	2017-10-15	2017-10-16		
	-	ND	-		
	-	ND	-		
	-	ND	-		
	-	ND	-		
	-	ND	-		
	-	ND	-		
	-	ND	-		
	-	ND	-	0.2mg/m ³	
	-	ND	-		
	-	ND	-		
	-	ND	-		
	-	ND	-	0.25mg/m ³	
	-	ND	-		
	-	ND	-		
	-	ND	-		
VOCs	-	-	0	0.0005mg/m ³	
	-	-	0		
	-	-	0		
	-	-	0		
	-	-	0		
	-	-	0		

8.4-3

mg/m³

		2017-10-16				
1	VOC	4	0.545	0.542	0.28	-
			22.9	22.8	0.22	-

8.4-4

mg/m³

	2017-10-13		2017-10-14		2017-10-14	
1	2.46	2.40±0.14	2.46	2.40±0.14	2.40±0.14	2.40±0.14
	—	—	2.32	2.40±0.14	—	2.40±0.14
	—	—	2.50	2.40±0.14	—	—
2	0.525	0.568±0.048	0.561	0.568±0.048	—	—
	0.470	0.453±0.021	0.468	—	—	—
3	—	—	0.435	—	—	—
	—	—	0.435	—	—	—
	51.3	50.1±2.4	—	—	—	—
4	—	—	—	—	—	—

/						
		L/min	L/min	%	%	
TH-110F	91	0.2	0.197	-1.5	$\pm 5/\pm 2.5$	
	91	0.5	0.49	-2		
	91	1	0.98	-2		
TH-110F	90	0.2	0.196	-2		
	90	0.5	0.491	-1.8		
	90	1	0.981	-1.9		
TH-110F	112	0.2	0.196	-2		
	112	0.5	0.492	-1.6		
	112	1	0.988	-1.2		
TH-110F	113	0.2	0.197	-1.5		
	113	0.5	0.491	-1.8		
	113	1	0.981	-1.9		
TH-110F	272	0.2	0.196	-2		
	272	0.5	0.49	-2		
	272	1	0.989	-1.1		
TH-110F	273	0.2	0.197	-1.5		
	273	0.5	0.491	-1.8		
	273	1	0.988	-1.2		
TH-110F	274	0.2	0.197	-1.5		
	274	0.5	0.491	-1.8		
	274	1	0.983	-1.7		
TH-110F	281	0.2	0.197	-1.5		
	281	0.5	0.49	-2		
	281	1	0.981	-1.9		
QC-1S	119	0.2	0.196	-2		
	119	0.5	0.491	-1.8		
	119	1	0.981	-1.9		
QC-1S	120	0.2	0.196	-2		
	120	0.5	0.492	-1.6		
	120	1	0.988	-1.2		
QC-1S	121	0.2	0.197	-1.5		
	121	0.5	0.491	-1.8		
	121	1	0.982	-1.8		
QC-1S	122	0.2	0.196	-2		
	122	0.5	0.492	-1.6		
	122	1	0.985	-1.5		
ZR-3920	184	20	20.35	-1.75		

	184	50	50.85	-1.7		
	184	80	81.46	-1.82		
ZR-3920	185	20	20.36	-1.8		
	185	50	50.92	-1.84		
	185	80	1.48	-1.85		
ZR-3920	186	20	20.37	1.85		
	186	50	50.88	1.76		
	186	80	81.12	1.4		
ZR-3920	187	20	20.29	1.45		
	187	50	50.75	1.5		
	187	80	81.06	1.33		
ZR-3920	188	20	20.31	1.55		
	188	50	50.82	1.64		
	188	80	81.22	1.53		
ZR-3920	275	20	20.36	1.8		
	275	50	50.88	1.76		
	275	80	81.13	1.41		
ZR-3920	276	20	20.31	1.55		
	276	50	50.72	1.44		
	276	80	81.23	1.54		
ZR-3920	277	20	20.32	1.6		
	277	50	50.82	1.64		
	277	80	81.08	1.35		
ZR-3920	278	20	20.36	1.8		
	278	50	50.88	1.76		
	278	80	81.12	1.4		
ZR-3920	279	20	20.33	1.65		
	279	50	50.87	1.74		
	279	80	81.33	1.66		

8.4-6

/

2017.10.14

LD127 ZM-CS-026

GilianGibrator2 ZM-CS-193

/

L/min

	273	0.5	0.488	-1.9		
	273	1	0.978	-1.5		
TH-110F	274	0.2	0.196	-1.6		
	274	0.5	0.489	-1.9		
	274	1	0.981	-2		
TH-110F	281	0.2	0.197	-1.5		
	281	0.5	0.489	-2.2		
	281	1	0.979	-2.1		
QC-1S	119	0.2	0.196	-2		
	119	0.5	0.488	-2.4		
	119	1	0.977	-2.3		
QC-1S	120	0.2	0.196	-2		
	120	0.5	0.489	-2.2		
	120	1	0.978	-2.2		
QC-1S	121	0.2	0.196	-2		
	121	0.5	0.49	-2		
	121	1	0.979	-2.1		
QC-1S	122	0.2	0.196	-2		
	122	0.5	0.489	-2.2		
	122	1	0.977	-2.3		
ZR-3920	184	20	20.45	-2.25		
	184	50	50.95	1.9		
	184	80	81.56	1.95		
ZR-3920	185	20	20.46	2.3		
	185	50	51.02	2.04		
	185	80	81.58	1.98		
ZR-3920	186	20	20.47	2.35		
	186	50	50.98	1.96		
	186	80	81.42	1.78		
ZR-3920	187	20	20.39	1.95		
	187	50	50.85	1.7		
	187	80	81.46	1.82		
ZR-3920	188	20	20.41	2.05		
	188	50	50.92	1.84		
	188	80	81.42	1.78		
ZR-3920	275	20	20.46	2.3		
	275	50	50.98	1.96		
	275	80	81.33	1.66		
ZR-3920	276	20	20.41	2.05		

	276	50	50.92	1.84		
	276	80	81.53	1.91		
ZR-3920	277	20	20.42	2.1		
	277	50	50.92	1.84		
	277	80	81.38	1.72		
ZR-3920	278	20	20.46	2.3		
	278	50	50.98	1.96		
	278	80	81.42	1.78		
ZR-3920	279	20	20.43	2.15		
	279	50	50.97	1.94		
	279	80	81.53	1.91		

8.5

0.5dB A

8.5-1

8.5-1 /

	2017-10-13										dB(A)	
	2017-10-13					2017-10-14						
	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)		
AWA5668	94.0	93.7	-0.3	93.7	-0.3	94.0	93.9	-0.1	93.9	-0.1	±0.5	

AWA5688

9

9.1

9.1-1

9.1-1

		2017 10 13			2017 10 14		
3.5 600mm*720mm		1600	/		1600	/	
		1280	/		1280	/	
		80%			80%		

80%

[2000]38

75%

9.2

9.2.1

3 2500 /
200 / 3
3 10 2017.10.13 2017.10.14
2025 / 81% 156 /
78% 3 9.2-1

9.2-1 3

				3			
2017. 10.13			310t/d	1075.6t/d 115t/d	1010.4t/d 51t/d	2086t/d 166t/d	83.44% 83%
			115t/d				
	SMD	200t/d					
		565.6t/d					
2017. 10.13			310t/d	1075.6t/d 115t/d	888.4t/d 31t/d	1964t/d 146t/d	78.56% 73%
			115t/d				
	SMD	200t/d					
		565.6t/d					

W1

W2

W3

W4

9.2-2~9.2-5

1

pH COD_{Cr} BOD₅

18

DB44/26-2001

COD_{Cr} BOD₅

96% 96% 84% 99% 61%

58% 34%%

2

pH COD_{Cr} BOD₅

18

DB44/26-2001

9.2-6

pH COD_{Cr} BOD₅

18

DB44/26-2001

GB/T31962-2015

B

9.2-2


mg/L pH

			pH	COD	BOD ₅						
	2017.10.13		8.32	142	42.0	0.272	4.48	2.92	0.08 10 ⁻³ L	0.67 10 ⁻³ L	11.9
			8.26	144	40.2	0.289	4.47	3.01	0.08 10 ⁻³ L	0.67 10 ⁻³ L	11.8
			8.24	134	37.3	0.250	4.41	3.18	0.08 10 ⁻³ L	0.67 10 ⁻³ L	12.2
			8.35	140	39.3	0.261	4.37	2.75	0.08 10 ⁻³ L	0.67 10 ⁻³ L	11.5
			8.29	140	39.7	0.268	4.43	2.97	0.00004	0.00034	11.9
	2017.10.14		8.21	128	36.4	0.238	4.55	3.08	0.08 10 ⁻³ L	0.67 10 ⁻³ L	11.9
			8.19	132	37.9	0.283	4.46	1.10	0.08 10 ⁻³ L	0.67 10 ⁻³ L	12.5
			8.42	120	36.2	0.284	4.42	3.09	0.08 10 ⁻³ L	0.67 10 ⁻³ L	12.1
			8.37	123	37.2	0.317	4.39	2.66	0.08 10 ⁻³ L	0.67 10 ⁻³ L	12.3
			8.30	126	36.9	0.281	4.46	2.48	0.00004	0.00034	12.2
		8.30	133	38.3	0.274	4.44	2.72	0.00004	0.00034	12.0	

0.04 10⁻³L 0.05 10⁻³L 0.004L 0.09×10⁻³

2017.10.13

9.2-3 W2

					mg/L		pH			
pH	COD	BOD ₅								
2.06	218	66.4	3.52	0.18	7.04	0.08	10 ⁻³ L	0.67	10 ⁻³ L	843
2.15	211	63.9	3.75	0.15		0.08	10 ⁻³ L	0.67	10 ⁻³ L	811

2017.10.13

9.2-4 W3

mg/L pH

		pH	COD	BOD ₅							
	2017.10.13	7.13	7	2.0	0.025L	0.01	0.73	0.08 10 ⁻³ L	0.67 10 ⁻³ L	4.44	
		7.19	8	2.4	0.025L	0.01L	0.64	0.08 10 ⁻³ L	0.67 10 ⁻³ L	4.33	
		7.09	8	2.3	0.025L	0.02	0.92	0.08 10 ⁻³ L	0.67 10 ⁻³ L	4.07	
		7.16	7	2.1	0.025L	0.01	0.95	0.08 10 ⁻³ L	0.67 10 ⁻³ L	4.35	
		7.14	8	2.2	0.013	0.01	0.81	0.00004	0.00034	4.30	
	2017.10.14	7.22	8	2.6	0.025L	0.01	0.86	0.08 10 ⁻³ L	0.67 10 ⁻³ L	4.78	
		7.06	10	3.0	0.025L	0.01L	3.52	0.08 10 ⁻³ L	0.67 10 ⁻³ L	4.23	
		7.29	8	2.2	0.025L	0.01L	0.77	0.08 10 ⁻³ L	0.67 10 ⁻³ L	4.33	
		7.27	9	2.8	0.025L	0.01L	1.03	0.08 10 ⁻³ L	0.67 10 ⁻³ L	4.33	
		7.21	9	2.65	0.013	0.01L	1.55	0.00004	0.00034	4.42	
		7.18	8	2.43	0.013	0.01	1.18	0.00004	0.00034	4.36	
DB44/26-2001		6~9	90	20	10	0.5	-	0.5	2.0	10	
%		/	96%	96%	/	/	84%	/	/	99%	

		0.04 10 ⁻³ L	0.05 10 ⁻³ L	0.004L	0.09×10 ⁻³ L	0.04 10 ⁻³ L	0.06 10 ⁻³ L	0.120	0.26	0.071
		0.04 10 ⁻³ L	0.05 10 ⁻³ L	0.004L	0.09×10 ⁻³ L	0.04 10 ⁻³ L	0.06 10 ⁻³ L	0.139	0.32	0.076
	2017.10.13	0.04 10 ⁻³ L	0.05 10 ⁻³ L	0.004L	0.09×10 ⁻³ L	0.04 10 ⁻³ L	0.06 10 ⁻³ L	0.140	0.31	0.073
		0.04 10 ⁻³ L	0.05 10 ⁻³ L	0.004L	0.09×10 ⁻³ L	0.04 10 ⁻³ L	0.06 10 ⁻³ L	0.061	0.28	0.080
		0.00002	0.00003	0.002	0.00005	0.00002	0.00003	0.115	0.29	0.08
		0.04 10 ⁻³ L	0.05 10 ⁻³ L	0.004L	0.09×10 ⁻³ L	0.04 10 ⁻³ L	0.06 10 ⁻³ L	0.061	0.27	0.085
		0.04 10 ⁻³ L	0.05 10 ⁻³ L	0.004L	0.09×10 ⁻³ L	0.04 10 ⁻³ L	0.06 10 ⁻³ L	0.100	0.36	0.066
	2017.10.14	0.04 10 ⁻³ L	0.05 10 ⁻³ L	0.004L	0.09×10 ⁻³ L	0.04 10 ⁻³ L	0.06 10 ⁻³ L	0.041	0.28	0.085
		0.04 10 ⁻³ L	0.05 10 ⁻³ L	0.004L	0.09×10 ⁻³ L	0.04 10 ⁻³ L	0.06 10 ⁻³ L	0.041	0.24	0.088
		0.00002	0.00003	0.002	0.00005	0.00002	0.00003	0.061	0.29	0.081
		0.00002	0.00003	0.002	0.00005	0.00002	0.00003	0.088	0.29	0.078
		0.5	0.1	0.5	1.0	0.5	1.0	0.3	5	5.0
DB44/26-2001	%	/	/	/	/					

9.2-5 W4

mg/L pH

			pH	COD	BOD5						
	2017.10.13		6.77	11	3.4	0.025L	0.05	1.16	0.08 10 ⁻³ L	0.67 10 ⁻³ L	0.65
			6.81	13	3.9	0.025L	0.06	1.08	0.08 10 ⁻³ L	0.67 10 ⁻³ L	0.63
			6.72	10	3.1	0.025L	0.05	1.27	0.08 10 ⁻³ L	0.67 10 ⁻³ L	0.60
			6.84	12	3.6	0.025L	0.04	0.94	0.08 10 ⁻³ L	0.67 10 ⁻³ L	0.58
			6.79	11.5	3.5	0.013	0.05	1.11	0.00004	0.00034	0.62
	2017.10.14		6.71	11	3.4	0.025L	0.05	1.21	0.08 10 ⁻³ L	0.67 10 ⁻³ L	0.57
			6.88	12	3.5	0.025L	0.05	3.19	0.08 10 ⁻³ L	0.67 10 ⁻³ L	0.55
			6.65	11	3.5	0.025L	0.04	1.19	0.08 10 ⁻³ L	0.67 10 ⁻³ L	0.56
			6.69	12	3.8	0.025L	0.04	1.21	0.08 10 ⁻³ L	0.67 10 ⁻³ L	0.66
			6.73	12	3.55	0.013	0.05	1.70	0.00004	0.00034	0.585
		6.76	11.5	3.5	0.013	0.05	1.41	0.00004	0.00034	0.60	
		6~9	90	20	10	0.5	-	0.5	2.0	10	

	0.04	10 ⁻³ L	0.05	10 ⁻³ L	0.004L	0.09×10 ⁻³ L	0.04	10 ⁻³ L	0.06	10 ⁻³ L	0.120	0.34	0.057
	0.04	10 ⁻³ L	0.05	10 ⁻³ L	0.004L	0.09×10 ⁻³ L	0.04	10 ⁻³ L	0.06	10 ⁻³ L	0.080	0.33	0.05L
2017.10.13	0.04	10 ⁻³ L	0.05	10 ⁻³ L	0.004L	0.09×10 ⁻³ L	0.04	10 ⁻³ L	0.06	10 ⁻³ L	0.100	0.27	0.052
	0.04	10 ⁻³ L	0.05	10 ⁻³ L	0.004L	0.09×10 ⁻³ L	0.04	10 ⁻³ L	0.06	10 ⁻³ L	0.090	0.37	0.061
	0.00002		0.00003		0.002	0.00005	0.00002		0.00003		0.100	0.33	0.057
	0.04	10 ⁻³ L	0.05	10 ⁻³ L	0.004L	0.09×10 ⁻³ L	0.04	10 ⁻³ L	0.06	10 ⁻³ L	0.061	0.25	0.054
	0.04	10 ⁻³ L	0.05	10 ⁻³ L	0.004L	0.09×10 ⁻³ L	0.04	10 ⁻³ L	0.06	10 ⁻³ L	0.061	0.22	0.05L
2017.10.14	0.004	10 ⁻³ L											

9.2-6

mg/L pH

			pH	COD	BOD ₅	N					
W5	2017.10.13		8.49	160	46.4	3.98	0.30	19.8	0.08×10 ⁻³ L	0.67×10 ⁻³ L	1.41
			8.41	151	44.8	3.90	0.33	19.2	0.08×10 ⁻³ L	0.67×10 ⁻³ L	1.29
			8.38	165	46.3	3.95	0.26	20.9	0.08×10 ⁻³ L	0.67×10 ⁻³ L	1.44
			8.45	162	45.7	4.01	0.34	19.2	0.08×10 ⁻³ L	0.67×10 ⁻³ L	1.51
			8.43	159.5	45.8	3.96	0.31	19.8	0.00004	0.0003	1.41
	2017.10.14		8.28	154	45	3.92	0.30	18.4	0.08×10 ⁻³ L	0.67×10 ⁻³ L	1.57
			8.43	161	44.8	4.15	0.32	20.8	0.08×10 ⁻³ L	0.67×10 ⁻³ L	1.37
			8.34	151	43.9	4.35	0.3	19.7	0.08×10 ⁻³ L	0.67×10 ⁻³ L	1.56
			8.25	156	43.8	4.04	0.28	18.6	0.08×10 ⁻³ L	0.67×10 ⁻³ L	1.37
			8.33	155.5	44.4	4.12	0.30	19.4	0.00004	0.0003	1.47
DB44/26-2001			6~9	500	300	45			2.0	5.0	20
GB/T31962-2015 B											

	2017.10.13		0.04×10 ⁻³ L	0.05×10 ⁻³ L	0.004L	0.09×10 ⁻³ L	0.04×10 ⁻³ L	0.06×10 ⁻³ L	0.01L	0.84	0.05L
			0.04×10 ⁻³ L	0.05×10 ⁻³ L	0.004L	0.09×10 ⁻³ L	0.04×10 ⁻³ L	0.06×10 ⁻³ L	0.01L	0.24	0.052
			0.04×10 ⁻³ L	0.05×10 ⁻³ L	0.004L	0.09×10 ⁻³ L	0.04×10 ⁻³ L	0.06×10 ⁻³ L	0.01L	0.74	0.054
			0.04×10 ⁻³ L	0.05×10 ⁻³ L	0.004L	0.09×10 ⁻³ L	0.04×10 ⁻³ L	0.06×10 ⁻³ L	0.01L	0.92	0.05L
			0.00002	0.00003	0.002	0.00005	0.00002	0.00003	0.01	0.69	0.04
	2017.10.14		0.04×10 ⁻³ L	0.05×10 ⁻³ L	0.004L	0.09×10 ⁻³ L	0.04×10 ⁻³ L	0.06×10 ⁻³ L	0.01L	0.88	0.05L
			0.04×10 ⁻³ L	0.05×10 ⁻³ L	0.004L	0.09×10 ⁻³ L	0.04×10 ⁻³ L	0.06×10 ⁻³ L	0.01L	0.99	0.054
			0.04×10 ⁻³ L	0.05×10 ⁻³ L	0.004L	0.09×10 ⁻³ L	0.04×10 ⁻³ L	0.06×10 ⁻³ L	0.01L	1.03	0.05L
			0.04×10 ⁻³ L	0.05×10 ⁻³ L	0.004L	0.09×10 ⁻³ L	0.04×10 ⁻³ L	0.06×10 ⁻³ L	0.01L	0.86	0.057
			0.00002	0.00003	0.002	0.00005	0.00002	0.00003	0.01	0.94	0.04
DB44/26-2001			0.05	0.1	0.5	1.0	0.5	1.0	2.0	20	20
GB/T31962-2015 B											

L

9.2.2

1

9.2-7~9.2-9

5

NO_x HCl

DB44/27-2001

NH₃

GB14554-93

VOCs

(DB44/815-2010)

9.2-7

			m ³ /h	mg/m ³	kg/h	%	mg/m ³	kg/h	%
2017/10/13		—	27560	13.1	0.36	47.2	19.8	0.55	63.6
		34	26825	7	0.19		7.35	0.2	
		—	27438	13.3	0.36	50.0	21.1	0.58	65.5
		34	26500	6.8	0.18		7.64	0.2	
		—	26500	13.5	0.36	50.0	20.6	0.55	67.3
		34	25480	7.1	0.18		6.96	0.18	
2017/10/14		—	28670	14.2	0.41	56.1	19.4	0.56	69.6
		34	25043	7.3	0.18		6.74	0.17	
		—	27593	14	0.39	53.8	21.2	0.58	69.0
		34	26680	6.7	0.18		6.91	0.18	
		—	28400	12.9	0.37	56.8	20.1	0.57	68.4
		34	26792	6.1	0.16		6.9	0.18	
		—	—	13.5	0.38	—	20.4	0.57	—
		—	—	6.8	0.18	—	7.1	0.19	—
(DB44/27-2001)			/	120	2.32	/	100	0.78	/
			/			/			/

9.2-8

		m ³ /h	mg/m ³	kg/h	%
	——	18670	2.3	4.3×10 ⁻²	48.8
	34	15460	1.21	2.2×10 ⁻²	
	——	17964	2.51	4.5×10 ⁻²	57.8
2017/10/13	34	16548	1.15	1.9×10 ⁻²	
	——	18030	2.58	4.7×10 ⁻²	57.4

9.2-9

			m ³ /h	VOCs		
				mg/m ³	kg/h	%
2017/10/13		—	19650	7.84	0.15	98.9
		34	17543	0.95	1.7×10 ⁻²	
		—	18962	7.17	0.14	90.7
		34	16608	0.82	1.3×10 ⁻²	
		—	19054	7.33	0.14	89.3
		34	17890	0.84	1.5×10 ⁻²	
2017/10/14		—	19500	7.63	0.15	88.7
		34	17650	0.99	1.7×10 ⁻²	
		—	19006	8.36	0.16	89.4
		34	17786	0.95	1.7×10 ⁻²	
		—	18963	8.16	0.15	89.3
		34	17900	0.87	1.6×10 ⁻²	
		(DB44/815-2010)	/	120	2.5	/
			/			/

9.2.3

26

9.2-10

		9.2-10 26						dB(A)	
		2017	10	13	2017	10	14		
1#		58			58			60	
		49			48			50	
2#		59			58			60	
		48			48			50	
3#		57			56			60	
		48			46			50	
4#		59			59			60	
		48			47			50	

GB12348-2008 2

9.2.4

10 13 3

2086t/d 10 14 3

1964t/d 3

2025t/d

3

26

26

SMD

565.2t/d

16980t/a

COD

1.95t/a

0.002t/a

6t/d

1800t/a

COD

0.28t/a

0.007t/a

COD

2.23t/a

0.009t/a

2017

116

9.2-11

9.2-11

		2017	116
COD	2.23 t/a	8.45t/a	
	0.009 t/a	0.8t/a	

9.3

2017 10 13 ~15

1

10 13~14

1 1

1

9.3-1

9.3-1 1

	10 13	10 14	10 15			
SO ₂ μg/m ³	ND	5	5	150		GB3095-2012
NO ₂ μg/m ³	19	21	19	80		
NO _x μg/m ³	23	27	26	100		
PM _{2.5} μg/m ³	33	35	29	75		
PM ₁₀ μg/m ³	93	109	117	150		
TSP μg/m ³	132	140	141	300		
μg/m ³	2.8	2.4	2.5	7		
mg/m ³	0.008	0.007	0.007	0.015		TJ36-79
TVOC mg/m ³	0.07	0.06	0.06	0.6		(GB/T18883-2002)

9.3-1

1

SO₂ NO₂ NO_x

PM_{2.5} PM₁₀

TSP

GB3095-2012

TJ36-79

TVOC

(GB/T18883-2002)

2 1

1

9.3-2

9.3-2 1

dB(A)

2017 10 13 2017 10 14

59

58

60

5#

10

1

5

10.1-1

10.1-1

1		
2	3	3
3		34
4		1 2 ITO AL 3
5		
6		3

11

				[2003]26
	<	>	<	
>			[2012]21	1
		1		
				32
32	31	1		
	96.9%			
11.1-1		11.1-2		11.1-3

11.1-1

					30 40-50	30-40 50
	26 600mm*720mm	4	10000 48		3.5 1	500 3

11.1-2

1	1		30		13071597579		1
	2		30		13828945742		1
	3		30		13680966950		1
	4		30		17688078089		1
	5		30		15900121440		1
	6		30		13437507902		1
	7		30-40		15179267977		1
	8		30		15019570520		1
	9		30-40		13536491036		1
	10		30		13826558173		1
	11	*	30		13428207324		
	12		30		13437546646		
	13		30		15767605016		
	14		30		13480382303		
	15		30		18899700379		
	16	*	30		13571373671		
	17		30		13502595021		
	18	*	30		15819113918		
	19		30		13560558638		
	20	**	30		1372937141		
	21		30-40		15706607313		
	22		30-40		18824694560		
	23		30		13046122822		
	24		30-40		13692142041		
	25		30-40		13536482572		
	26	*	30		15218121696		
	27		30		15900128550		
	28		30		13502589024		
	29		30		15767143591		
	30		30		13119487421		
	31		30		13536491016		
	32		30		13410291126		

11.1-2

31

100%

12.9% 4

6.5% 2

12

12.1

				26	4
				3.5	
600mm*720mm		1600 /	48 /		1280
/	38.4 /		10000		2017 5

2

GB18597-2001 2013

3

GB 18599-2001 2013

4

5

12.6

