

2014 6 7 “ ”
2015 17 “ ”
1 “ 7/8 1 ↓ ρ 2017
2020 10% ρ 2030
“ ” 2015 8 28
“ ”
2015 130~ 7/8
≠ L
“ ρ 2015 ρ
“ ρ 2015 12
“ ρ 18 ρ
2016 “ ρ 1

2020	4	√	√
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 $\approx L$

Δ

 $\dot{\rho}$

N

4.7km

1

37

3963

4574m

 $\mathbb{N} \quad 1$ 3 m³/d

A

 $\dot{\rho}$

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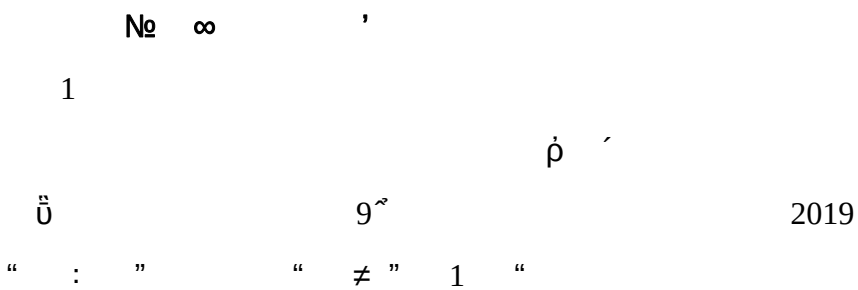
4.7km

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✓ 29.7%

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[illegible]

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$$\begin{array}{ccccccc}
& & & & \mathbb{V} & & \mathbb{F} \\
& & & & & & \\
& & \dot{\rho} & & & \frac{7}{8} & \int \mathbb{V} \\
& & & & \neq & \sim & \int \text{L} \\
& & & & \text{No} & & \\
& & & & & & \sim
\end{array}$$

1	L		7
3	W		7
4	%o		8
6	ĩ		11
6			15
2	No		17
2	/		17
2	'		18
3			44
4	No		45
3	'	.....	57
	'	.....	57
2		.....	61
3		.....	65
4		.....	96
		.....	96
2		.....	100
5	ĩ	.....	128
	ĩ	.....	128
	ĩ	.....	132
6	No	.....	143
6.1	...DÖÖ		

7.1		.....	146
7.2		.....	146
7.3	L	.....	149
7.4	$\frac{7}{8}$	.....	152
7.5		.....	152
8		.....	154
8.1	'	.....	154
8.2		.....	154
8.3	No	.....	155
8.4		.....	159
8.5	No	.....	163
8.6	$\frac{7}{8}$	.....	163
8.7	vii		164

- 1
- 2 №
- 3
- 4-1 . №
- 4-2
- 4-3 о №
- 5
- 6 № № №
- 7 № № №
- 8 № № №
- 9 № № №
- 10 № №
- 11 №
- 12 № № 2011-2020
- 13 № “ ” №
- 14 № L № 2010-2020
- 15 № “ ” № 2010-2020 №
- 16 № №
- 17

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2 ∇ $\ddot{U}$ ∇ $\dot{\rho}$ Δ

$\nabla \ddot{U}$ 2020 56 $\sim$

3

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№	W	2018	2018	8 [~]
14	✓		(2018—2020)	
15	✓		2018—2020	
1		†	HJ2.1-2016	
2		†	HJ2.2-2018	
3		†	HJ2.3-2018	
4		†	HJ610-2016	
5		†	HJ2.4-2009	
6		†	HJ19-2011	
7		†	HJ964-2018	
8		†	HJ169-2018	
9			† HJ/T55-2000	
10	w	✓ 7/8 №	GB/T15190-2014	
11			HJ/T91-2002 2003	1 1
12	Ü		GB50433-2008	
13		✓	✓	
Ü		2011	3	
14		✓	~	✓
2010		26 [~]		
15		✓	HJ2038-2014	
1	✓	ρ	PPP -	Δ
		2020	4	
2			ĩ	
3	†			

$\vdash$ $\vdash$ $\neq$ $\forall \forall \forall \forall$

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w ‰ 78 2020

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‰ GB3838-2002

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№				№			
1		/		8		≤30	≤60
2	pH	6~9		9		≤0.2	≤0.3
3		≥5	≥3	10	.	≤0.2	≤0.5
4		≤1.0	≤1.5	11	ü	≤0.005	≤0.01
5	.	≤20	≤30	12		≤0.05	≤0.5
6	.	≤4	≤6	13		≤10000	≤20000
7		≤6	≤10				

ü SL63-94

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‰ GB/T14848-2017

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№		‰	№		‰
1	pH	6.5~8.5	6		≤20.0
2	CaCO ₃	≤450	7		≤1.0
3	COD _{Mn} O ₂	≤3.0	8		≤0.5
4		≤250	9	MPN/100mL CFU/100mL	≤3.0
5	Cl ⁻	≤250	10		≤0.2

4 ‰

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w ‰ 78 № ĩ 2 4a ‰

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‰ GB3096-2008 2 ‰

35 ± 5m

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2	60	50
4a	70	55

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GB18918-2002

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GB14554-93

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↖	L	↓	‰
1	NH ₃	mg/m ³	1.5
2	H ₂ S	mg/m ³	0.06
3			20

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↖	L		
1	NH ₃	15	4.9
		20	8.7
		25	14
		30	20
2	H ₂ S	15	0.33
		20	0.58
		25	0.90
		30	1.3
3	‰	15	2000
		25	6000
		35	15000
		40	20000

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GB18918-2002

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↖		‰
1	pH	6 9
2	COD	50
3	BOD ₅	10
4		10
5	TN	15

№		‰
6	TP	0.5
7		30
8		103

3 0

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50m

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GB12348-

$$P = \frac{C}{C} \times 100\%$$

P — † %

C — ‡ 1h

$\mu\text{g}/\text{m}^3$

C_0 — i ‰ $\mu\text{g}/\text{m}^3$ ‡ GB3095 1 ‡

‡ HJ2.2-2018 ‡₈№

№

	№
	$P_{\max} \geq 10\%$
	$1\% \leq P_{\max} < 10\%$
	$P_{\max} < 1\%$

‡

‡		‡
/ ‡	/ ‡	
	o	700
/		39
/		2
≠		.
‡		
	№ /m	/
		□
	/km	/
	/°	/

		‡
	H ₂ S	NH ₃
	0.01 0	1.26 0
‡ ‡	1.22 0	9.60 0

H₂S

đ 3545m2 ↓ -
A₂=0.003545km²<0.2km² ↓ HJ2.3-2018
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b				
No ^a				
a	ρ	ν		ν
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≠					≠
	√	370m~600m	1200	300	
	√	300m~680m	3300	800	
	√	340~530m	1300	310	
	↔	√ . 115m	800	/	
√		150m~500m	1400	/	‰ GB3096-2008 2 ‰
	↔	√ . 115m	800	/	‰ GB3096-2008 4a ‰
					ρ
	24-2	48m	2560	640	‰ GB3096-2008 1 ‰
	24-2	√ 170m	1200	300	
√	24-2	√ 140m	/	1400	
	√ 27-22	70m	1300	310	
	28-5	. 20m	800	200	
	√ 27-8	√ 74m	2600	650	
	27-16	60m	2400	600	‰ GB3096-2008 2 ‰

m^2

2017 9

			▼		Ⅱ Ⅲ	
	Ⅳ	H ₂ S	t/a	0.178	0.170	0.008
		NH ₃	t/a	6.751	6.418	0.333
	Ⅴ	H ₂ S	t/a	0.028	0	0.028
		NH ₃	t/a	0.00007	0	0.00007
			m3/d	2	0	2
	BOD ₅		t/a	379.6	306.60	73
	CODCr		t/a	1219.10	854.10	365
	SS		t/a	1314.0	1241.00	73
			t/a	23.12	19.47	3.65
	NH ₃ -N		t/a	192.72	156.22	36.5
	Ⅳ		t/a	730	730	0
	Ⅳ		t/a	365	365	0
	▼		t/a	1642.5	1642.5	0

2015	10	21	11	20	√	≈
√	√					≈
№≠						ī
≈		└	√	2.5km		√
0.7km				o	1.0km	∅
			o	1.5km		o
	3.0km					
			4.7km		4.7km	2020
,	a		-	√	∞	c
		ī o	-	√	∞	b
√		∞	-	∅ o		

DN200~DN800mm

4062m

2952m

1110m

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SBR

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39638.90m³8225m²

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№

a

b

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№ c

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N

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2952m

o 5

1110m

o 6

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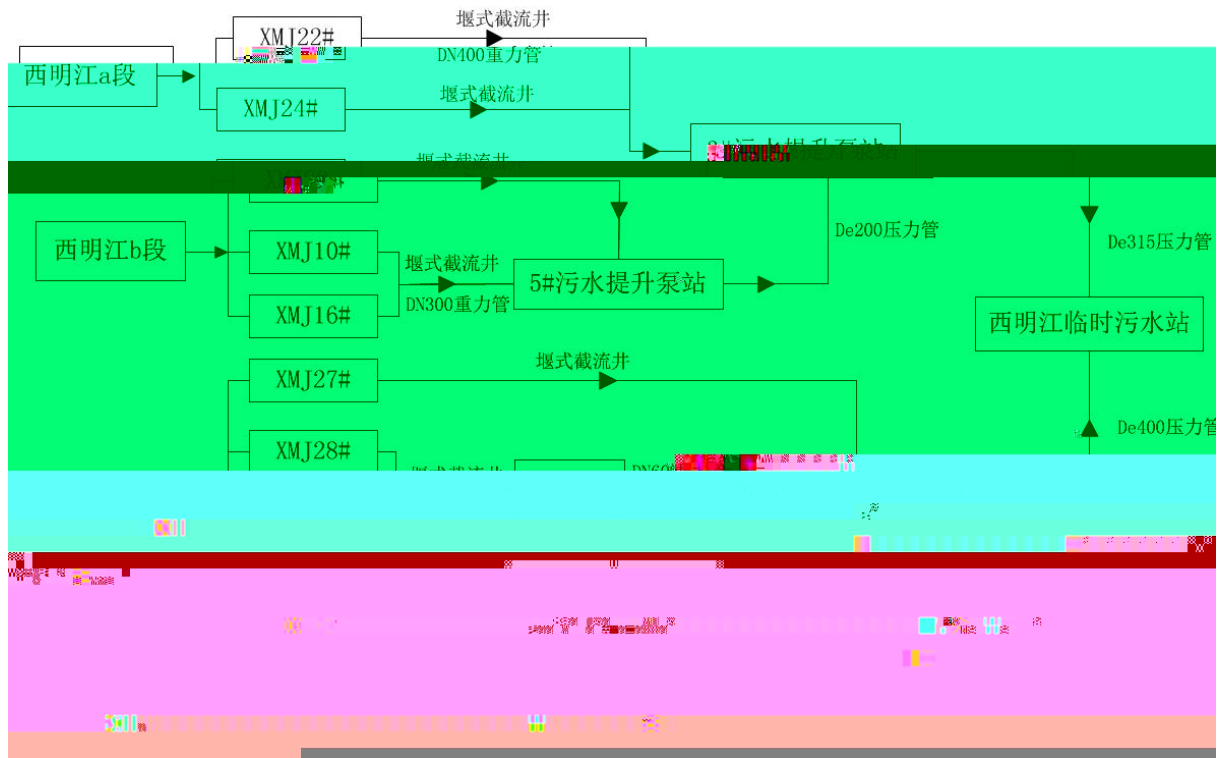
2.2-3~

2.2-4

4-2

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		o	o	o			✓	
	a	М	XMJ22#	№ L	114			
		.	XMJ24#		o			30
	b	М	XMJ8	№ L	111			
		.	XMJ10		o			95
		М	XMJ16	№ L	o			70
		.						
	c	М	XMJ27	№ L	164			
			XMJ28		o			141
				XMJ29	№ L	o		13
		.	XMJ38	№ L	24			
		М	XMJ39		o	77		
		М	XMJ45			263		



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ρ	~			↓		
	1	PE100	De200	m	980	PN=1.0MPa
	2	PE100	De315	m	270	PN=1.0MPa
	3	Q235B	DN200	m	100	PN=1.0MPa
	4	Q235B	DN300	m	30	PN=1.0MPa
	5	Q235B	DN400	m	30	PN=1.0MPa
	6	PE100	De400	m	430	PN=1.0MPa
	7	HDPE	DN300	m	450	≥8kN/m ²
	8	HDPE	DN400	m	120	≥8kN/m ²
	9	HDPE	DN500	m	12	≥8kN/m ²
	10	HDPE	DN600	m	80	≥8kN/m ²
	11	HDPE	DN800	m	450	≥8kN/m ²
	1	o			8	/
	2	o φ1000			22	Ⅶ
	3	o φ1500			9	Ⅶ
	4	o D=800 1.0m			1	/
	5	D1300	o		7	/
	6	D1200	o		5	/
	7	φ1000			3	/

đ

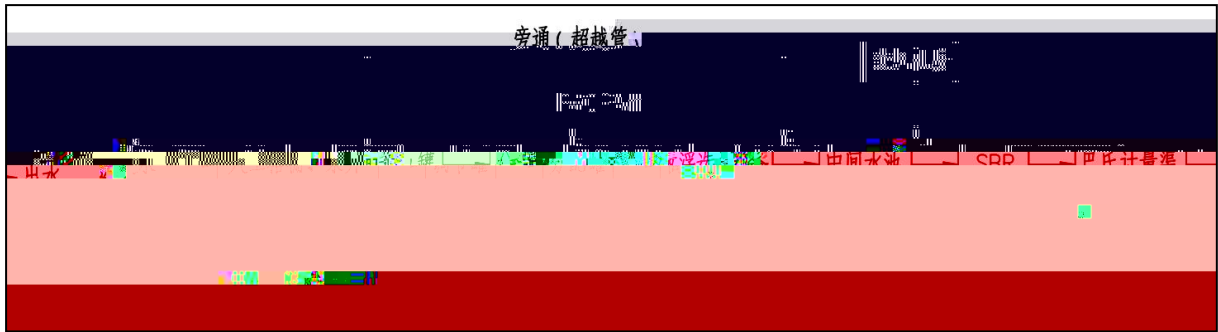
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р	а	л	а	л	а
6		а	2	л	а
7	DN100				

Q=80mm³/h
H=18m,N=7.5KW

		2		No
đ	~	đ		
	1	2#	đ	2 3×2.5×4m
	2		≈	đ đ
				Q=150m ³ /h,H=10m
				N=7.5kw
đ	3	DN250		2 PN=1.0MPa



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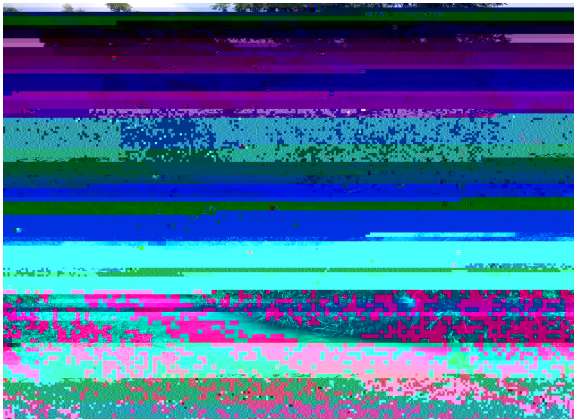
L

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UV

1		3480	/	/	330mm×330mm
2		3480	62640	18 /m ²	30-50cm
3		65	1300	20 /m ²	30-50cm
4		1200	/	/	220



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m³/d

23290.15m²

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29

* 12 L ρ ≤ 12 L

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1	Г		1	10922.24	
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3	3 о ()		7	650	
4			11	48	
5			1	96	
6	о		6	160	
7	3 о		2	620	
8	Λ ρ ()		1	3250	
9	Λ		1	480	
10				590	3 о о

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№ γ
 1 Q=602.5m³/h H=11m N=37kW ≈ 4 3 1
 2 B=1200, 20mm N=1.5kW 2 75 °
 3 4 D=300mm L=5m N=3kW 1 /
 4 LX 7 γ T=2t m " 6

№	Наименование	Единица измерения	Количество	Примечание
8	Вентилятор	DN800 L=590	1	
9	Вентилятор	DN800 L=318	1	
10	CD1	T=0.5t H=12m w 0.8kW	1	
11		B=0.8m α=75°b=10mm S=10mm P=0.55kW	2	/
12	ρ	3mm N=2.05kW	2	ї L
13		B=1.20m α=45° b=30mm S=10mm	1	/
14		B=300mm L=6m	1	
15		500mm Z ₁ 60m³/h L=6.0m w 1.4kW	1	
16	1	Q=5m³/h D=0.30m N=1.5kW	1	/
17	1	Q=9m³/h D=0.5m N=2.2kW	1	/
18		BxH=1.0x1.0m N=0.55kW	1	≈
19		BxH=0.7x0.5m N=0.55kW	6	
20		BxH=1.5x0.5m N=0.55kW	2	≈
21	△	3.8m ' △ ї N=0.55+0.4kW	2	/
22		Q=6.05m³/min P=29.4kPa N=5.5kW	2	1 1 ї
23		Q=2.5m³/min	2	/
24	№	Q=43~72m³/h N=0.37kW	1	/
25		V=1.5m³	2	/
26		BxH=1.1x1.0m N=0.55kW	2	≈
27	||	Q=32m³/h H=80m 11kW	3	2 1

№	Наименование	Единица измерения	Количество	Значение
39	БxH=800x900	шт	4	
40	БxH=350x900	шт	4	
41	DN300	шт	4	
42	Q=625m ³ /h H=9.5m P=22kW	шт	4	3 1 1
43				1

№	Наименование	Единица измерения	Количество	Примечание
90	TJSD-3.5 SS304 N=1.1($\dot{V}$)+2.2($\dot{V}$)	м	2	
91	З 3t/h 5kW	м	2	
92	З 5kgPAM/h SS304 N=2x1.1+0.18kW $\dot{V}$	м	1	/
93	Q=5m ³ /h H=0.6MPa N=2.2k $\dot{V}$	м	2	/
94	2m ³ PP N=1.1kW	м	2	/
95	Q=200L/h H=30m N=0.25kW	м	2	/
96	30m ³	м	1	/
97	N=15kW	м	1	/
98	2m ³ N=2.2kW	м	2	/
99	N=3.0kW	м	2	/
100	3m ³ PE	м	1	/
101	Q=12m ³ /h H=55m	м		

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62000m³/h

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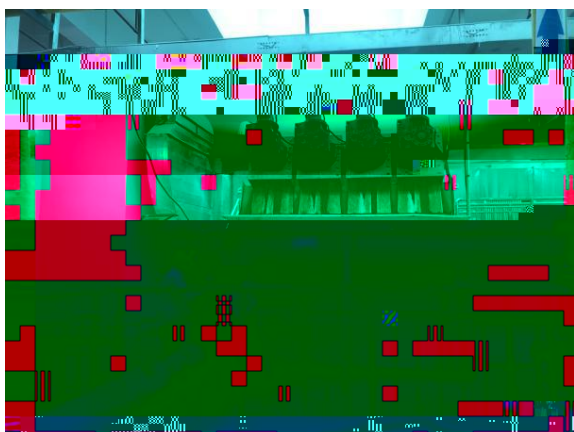
n

80%

60%

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№				л	
19		/	/	m ³	10346
20		/	/	m ³	8543
21		/	/	m ³	1276
22		/	/	m ³	10346
23		/	/	m ²	3317
24		/	/	≈	21
25		/	/	m	1448

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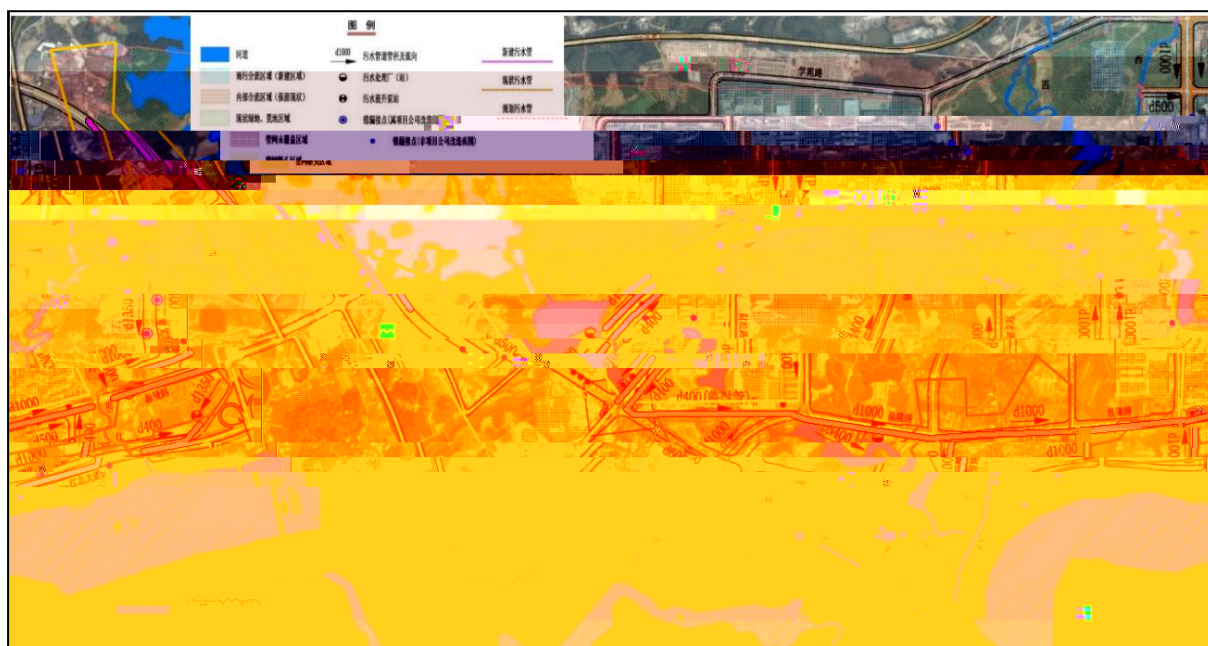
d1000

3015m

40m

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d400

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d400

194m

40m

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72.50m

72.82m

70.97m

70.97m

400

No



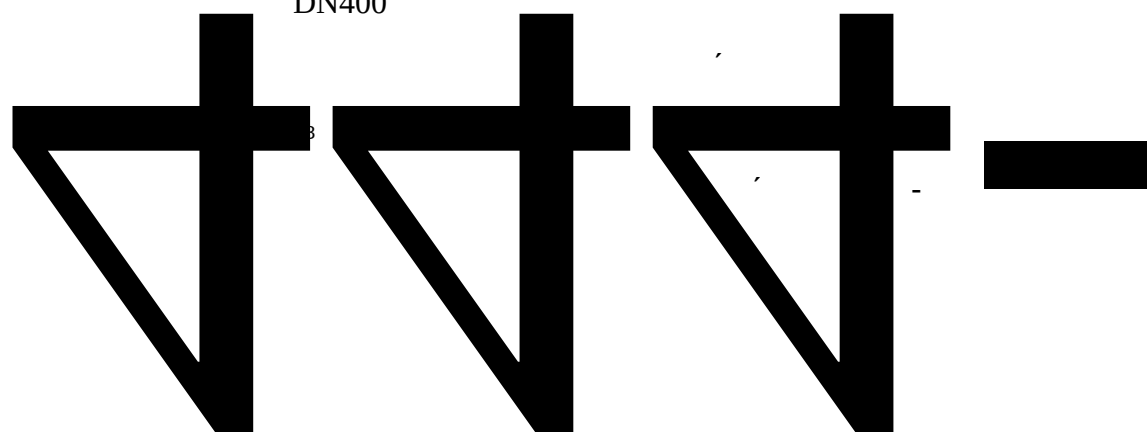
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DN400

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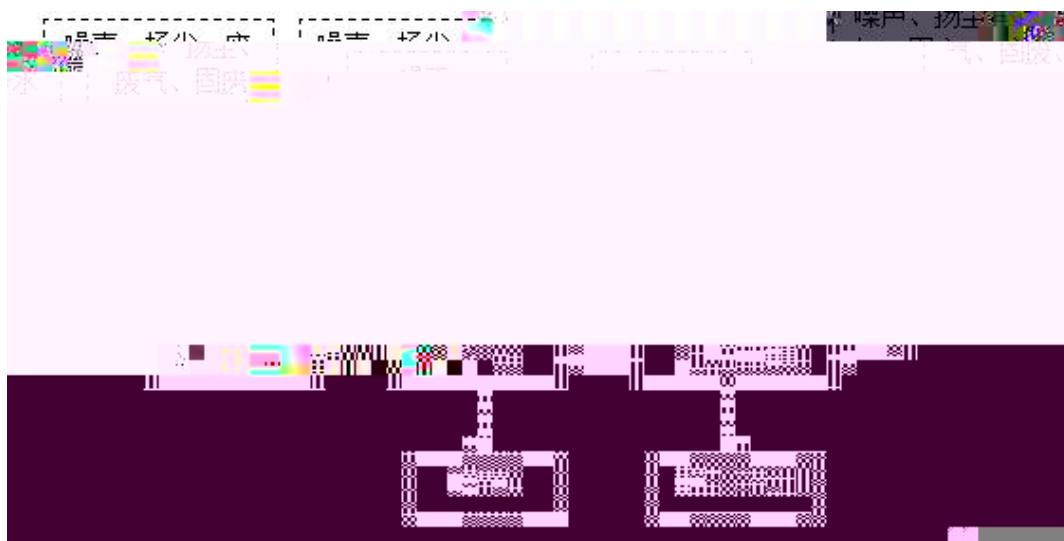
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47

47

2.0m³

SS SS

2000mg/L

47

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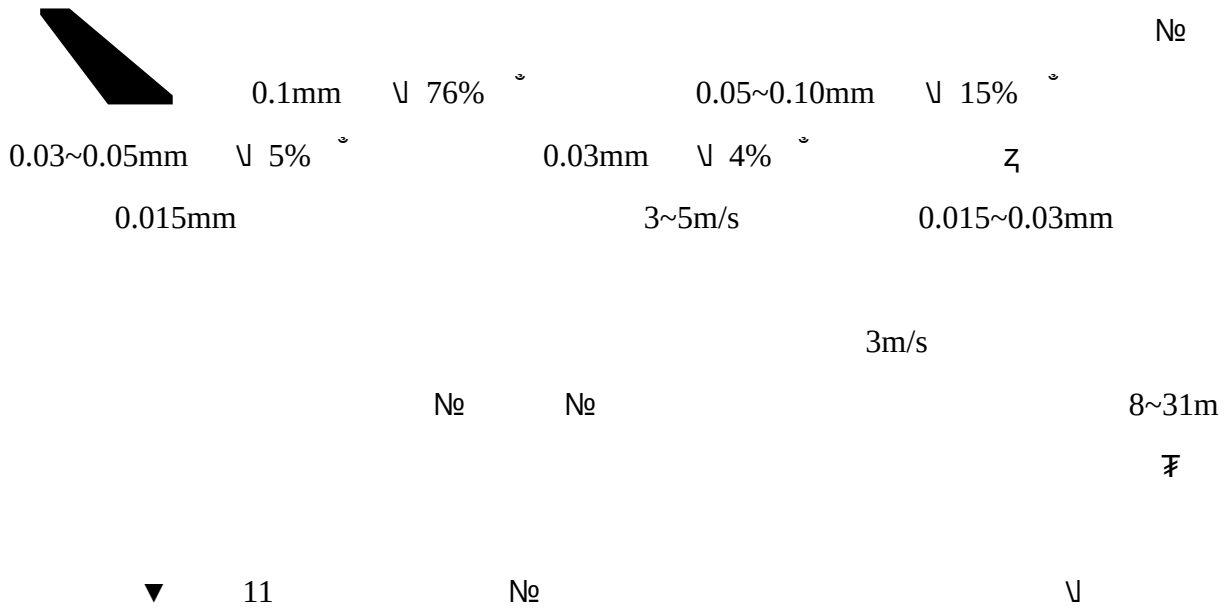
13.28m³

180 450mg/L

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47

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No

$\sqrt{}$

80~90dB A

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1		90
2		90
3		90
4	$\sqrt{}$	80

Δ

10346m³

10346m³

$\int$

$\sqrt{}$

48~

$\neq$					
			TSP		
			SO ₂ NO CO		
		2m ³ /d	SS	4kg/d	
	1	13.28m ³	SS	0.006kg/d	$\sqrt{}$
		10346m ³	/		$\int$ $\sqrt{}$ 48
		80~90dB(A)			

$\sqrt{}$

A²/O

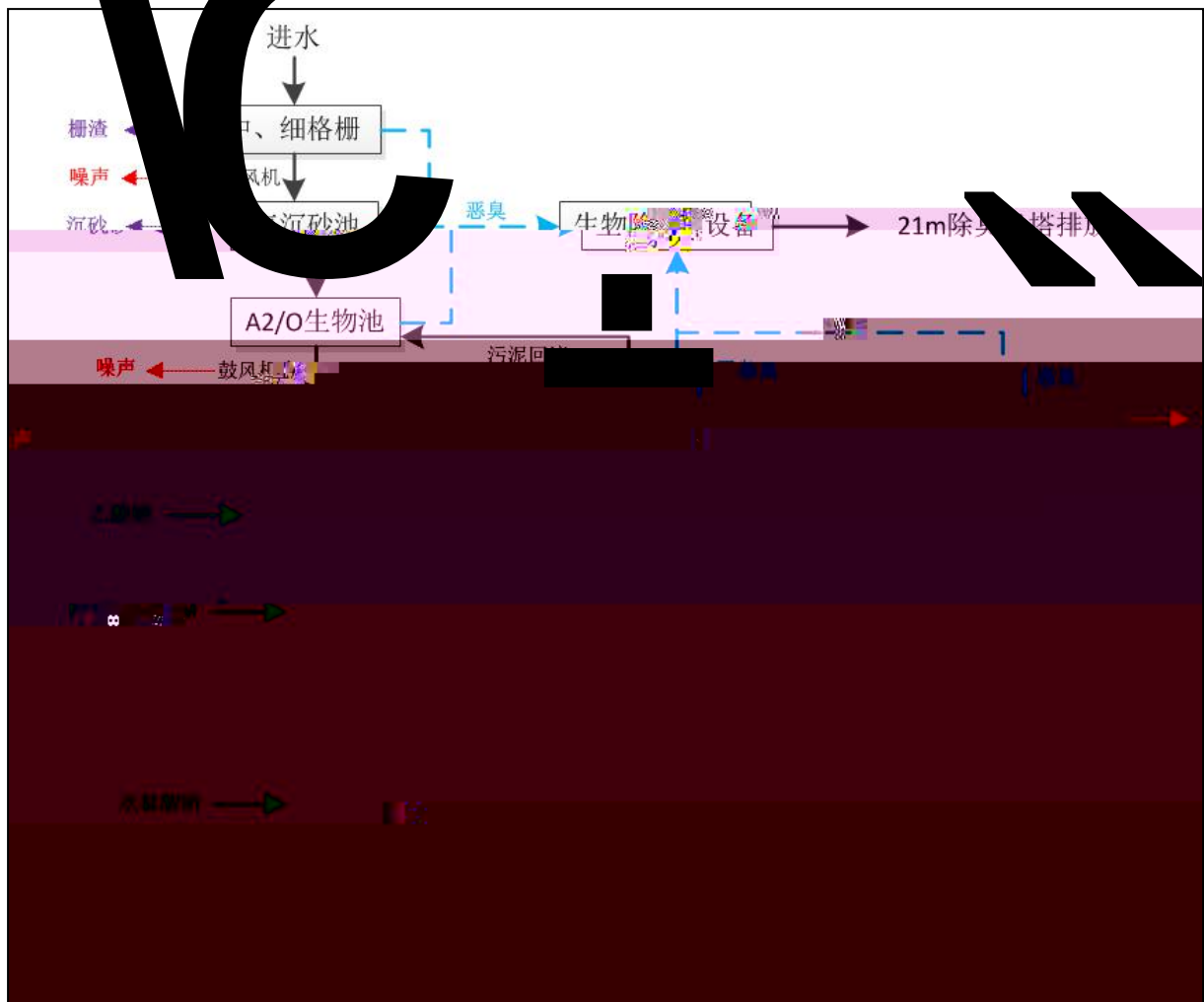
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$\sqrt{}$

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A/A/O

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COD _{Cr}	3 m³/d √ 1095 m³/a	260	2847	50	547.5	2299.50	80.77
		30	328.50	5	54.75	273.75	83.33
		3.5	38.33	0.5	5.48	32.85	85.71
BOD ₅		150	1642.50	10	109.50	1533	93.33
SS		180	1971	10	109.50	1861.50	94.44

$$\text{COD}_{\text{Cr}} \gg \vdots$$

282.73t/a

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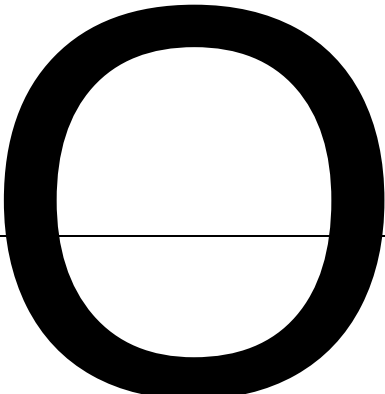
‘ A ’

		г		г			
		г	4	70~75		50	р
	г	г	4	70~75		50	р
г		г	3	70~75		50	р
		г	1	70~75		50	р
		г	2	70~75		50	р
		г	1	75~85		55	р
	г	г	1	70~75		50	р
		г	1	70~75		50	р
		г	1	70~75		50	р
		г	1	75~85		55	р
г		г	3	70~75		50	р
	г	г	3	70~75		50	р
		г	1	70~75		50	р
		г	3	70~75		50	р
	г	г	1	70~75		50	р
		г	1	70~75		50	р
		г	1	65~70		45	р
	г		1	70~75		50	р
	г	г	2	70~75		50	р
	г	г	3	80~85		65	р
		г	4	70~75		50	р

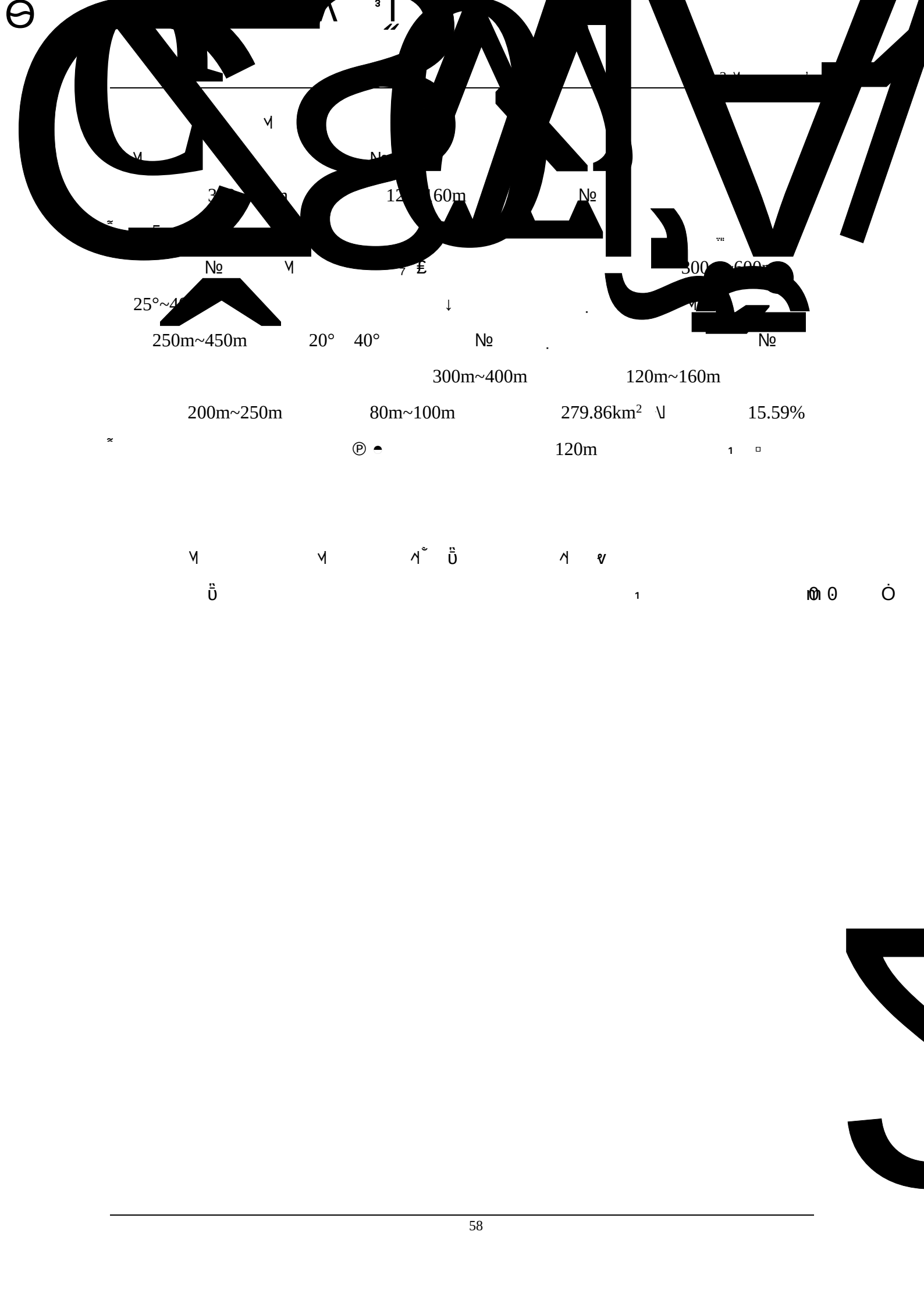
3	А				
			0.01t/a	↓	
2021		HW29		900-023-29	↓
		↓			
4					
	А	А 1-2	46		1kg
↑		0.046t/d	16.79t/a		

						井	√
		SS	150mg/L	1642.50	8mg/L	87.60	1554.90
	√		/	0.01	/	0	0.01
	√	√	/	36.5	/	0	36.5
		▼	/	10t/d	/	0	10t/d
		√	/	43.8	/	0	43.8
			/	16.79	/	0	16.79

2.1		2.4	√	井	√	井
			√	井	√	井
			√	井	√	井
√		H ₂ S	0.008	0.82	+0.812	
	√	NH ₃	0.333	0.0023	-0.3307	
√		H ₂ S	0.028	0	-0.028	
	√	NH ₃	0.00007	0	-0.00007	
			2 m ³ /d	3 m ³ /d	+1 m ³ /d	
		BOD ₅	73	65.70	-7.30	

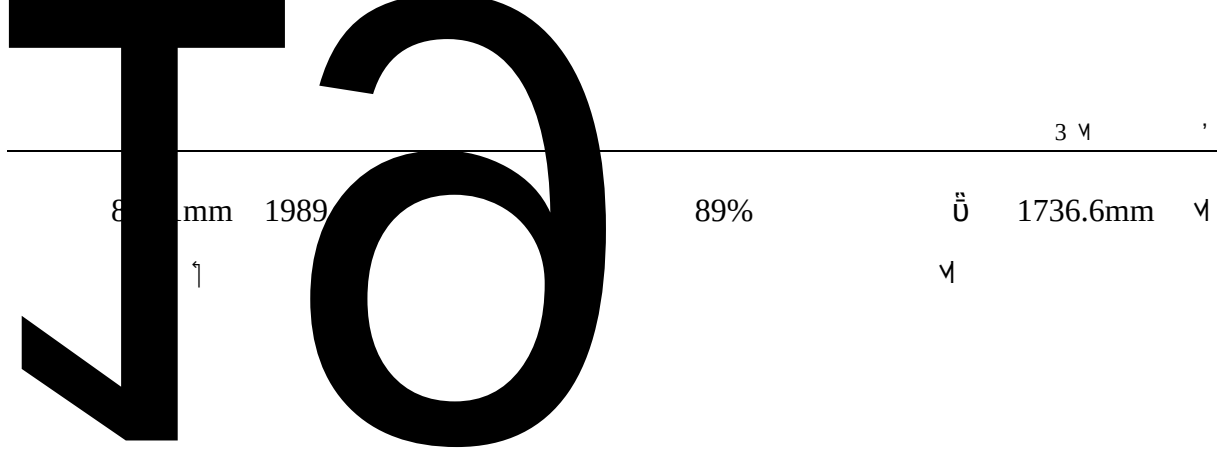


[illegible]



25°~40°
200m~250m
250m~450m
20° 40°
300m~400m
120m~160m
279.86km²
15.59%
120m
1

1 0 0



. HCO_3^- Ca HCO_3^- Ca.Mg HCO_3^- .Cl Ca.

2012	җ	№	җ	31	90	208	272	
19								42
		151		л		7		
			60		~			
						җ	№	
		җ		җ		җ	җ	
җ	җ	—	җ	җ		җ	җ	
җ	0	0	63	}				

i M 7/8 No '

 $\frac{1}{2} \frac{7}{8} \text{No}$
$$\mu \qquad \qquad \qquad \mu \qquad \qquad \qquad \text{‰} \qquad \qquad \qquad \mu$$

U

11010 Gm

0
100m

0 0

420m

U

5

100m

67m

20~30m

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 0

60

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№		2020		№		’	
2019	№						
2019	№			10	/	9.1%	
	32	/		8.6%	PM ₁₀	58	/
1	1.8%	PM _{2.5}	33	/		2.9%	8
90	№	138	/	1			

No

kg/h

Q —	↓	kg/h
Q_{+I} —	↓	kg/h
—	$\downarrow$	m
—	↓	m
$+I$ —	↓	m
5		
№	№	№
$P = \frac{C}{C}$		
P_i —	№	
C_i —		mg/m ³
C_{oi} —		‰ mg/m ³
$P_i \geq 100\%$	i	$P_i \leq 100\%$ i
6		α
	α	

4

2020.12.11	A1 №	·	1.7	18.7	100.57
	A2 №	·	1.6	18.9	100.55
	A3 № №	·	1.6	18.9	100.55
	A4 № ·	·	1.6	19.0	100.53
2020.12.12	A1 №		2.1	18.3	100.63
	A2 №		2.0	18.1	100.63
	A3 № №		2.0	18.3	100.62
	A4 № ·		2.0	18.5	100.60
2020.12.11	A6 №	·	1.8	18.5	100.61
		·	1.3	20.1	100.50
		·	2.0	20	

						4
			.	2.0	17.2	100.76
			.	2.1	20.0	100.61
			.	1.7	18.5	100.65
2020.12.14	A6 №		.	2.2	7.3	100.74
			.	1.7	9.2	100.61
			.	2.5	11.6	100.42
			.	2.1	10.2	100.48
2020.12.15	A6 №		.	1.3	6.3	100.92
			.	1.7	6.8	100.88
			.	1.4	7.4	100.83
			.	1.8	6.6	100.85
2020.12.16	A6 №		.	1.7	5.5	100.78
			.	1.4	6.2	100.68
			.	1.8	7.3	100.57
			.	1.5	6.5	100.61
2020.12.17	A6 №		.	1.5	5.3	100.68
			.	1.9	6.5	100.59
			.	1.4	7.2	100.50
			.	1.8	6.2	100.54

№

№

12.11	A5	№	/	21			
12.12	A5	№	/	21			

7

№

№

			№	%	№		
A1 №	mg/m ³	1		0.2		0	
	mg/m ³	1		0.01		0	

3 Ү				
, Ү				
%				
Ү				
A2 Ү		1	30	0
	mg/m ³	1	0.2	0
	mg/m ³	1	0.01	0
		1	30	0
A3 Ү	mg/m ³	1	0.2	0
	mg/m ³	1	0.01	

И „ „

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						/
						/

‰ GB14554-93 2 ‰ “ ND ”

~
NH₃ H₂S
↓ D ‰ ‰
GB14554-93 “ ‰ ‰ ”
ρ ‰ 21m

GB3838-2002

%

2

				γ	%	
5	15	a	.		≥ 3	
					≤ 1.5	
		b	=		≥ 3	
					≤ 1.5	
		c			≥ 3	
					≤ 1.5	
5	25	a	.		≥ 3	
					≤ 1.5	
		b	=		≥ 3	
					≤ 1.5	
		c			≥ 3	
					≤ 1.5	
6	2	a	.		≥ 3	
					≤ 1.5	
		b	=		≥ 3	
					≤ 1.5	
		c			≥ 3	
					≤ 1.5	

6

				‰
8	11	c	=	≤1.5
		a	.	≥3
		b	.	≤1.5
		b	=	≥3
		c	.	≤1.5
9	16	c	.	≥3
		a	.	≤1.5
		b	=	≥3
		c	.	≤1.5
		c	"X" ^	≤1.5
9	27	a	.	
		g		
		c		

№

№

HJ 828-2017

					‰							
W2	50m				0.5	0	0	0.01				
					cm	/	/	/	/			
					μV	/	/	/	/			
					μS	0.5	0	0	0.05			
					CFU/L	0.01	0	0	0.015			
					pH	20000	0	0	0.14~0.17			
						/	/	/	/			
						≥3	0	0	0.43~0.46			
						6~9	0	0	0.56~0.62			
						60	0	0	0.13~0.2			
						30	0	0	0.27~0.3			
					0.8km	6	0	0	0.2~0.32			
						10	0	0	0.21~0.22			
						1.5	0	0	0.07~0.08			
						0.3	0	0	0.37~0.4			
						0.5	0	0	0.01			
cm	/	/	/	/								
W3	0.8km				μV	/	/	/	/			
					μS	0.5	0	0	0.005			
					CFU/L	0.01	0	0	0.015			
					20000	0	0	0.16~0.20				
					/	/	/	/				
					≥3	0	0	0.411~0.42				
					pH	8.20	8.25	8.17	6~9	0	0	0.59~0.63
						9	13	15	60	0	0	0.15~0.25
						8	8	7	30	0	0	0.23~0.27
						1.5	1.9	1.1	6	0	0	0.18~0.32
									10	0	0	
									1.5	0	0	
									0.3	0	0	
									0.5			

					%			
	cm				/	/	/	
	μ mV				/	/	/	
					0.5	0	0	
	$\bar{O}$				0.01	0	0	
	CFU/L				20000	0	0	
W4 0.2km					/	/	/	
					≥ 3	0	0	
	pH				6~9	0	0	
					60	0	0	
					30	0	0	
					6	0	0	
					10	0	0	
					1.5	0	0	
					0.3	0	0	
					0.5	0	0	
	cm				/	/	/	
	μ mV				/	/	/	
					0.5	0	0	
	$\bar{O}$				0.01	0	0	
	CFU/L				20000	0	0	
W5 0.3km					/	/	/	
					≥ 3	0	0	
	pH				6~9	0	0	
					60	0	0	
					30	0	0	
					6	0	0	
					10	0	0	
					1.5	0	0	
					0.3	0	0	
					0.5	0	0	
	cm				/	/	/	

					%			
	μmV				/	/	/	
					0.5	0	0	
	0				0.01	0	0	
	CFU/L				20000	0	0	
W6 0.5km					/	/	/	
					≥5	0	0	
	pH				6~9	0	0	
					30	0	0	
					20	0	0	
					4	0	0	
					6	0	0	
					1.0	0	0	
					0.2	0	0	
					0.05	0	0	
	cm				/	/	/	
	μmV				/	/	/	
					0.2	0	0	
	0				0.005	0	0	
	CFU/L				10000	0	0	
“ND”								

1

					%			
W7 0.5km					/	/	/	
					≥5	0	0	
	pH ()				6~9	0	0	
					30	0	0	
					20	0	0	
					4	0	0	
					6	0	0	
					1.0	0	0	

					0	0	
				0.05	0	0	
cm				/	/	/	
mV				/	/	/	
				0	0	0	
0				0.005	0	0	
(CFU/L)				10000	0	0	

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W1~W5 4

π π

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π

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				1	2	3	4	5	6	7	8	9
	2019 2 ~ 25 4 2	cm										
				≤ 40%H	≤ 25	≤ 25	≤ 25	≤ 25	≤ 25	≤ 25	≤ 25	≤ 25
		mg/L										
				≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0
		mg/L										
				≥ 8.0	≥ 8.0	≥ 8.0	≥ 8.0	≥ 8.0	≥ 8.0	≥ 8.0	≥ 8.0	≥ 8.0
		mV										
				≤ 50	≤ 50	≤ 50	≤ 50	≤ 50	≤ 50	≤ 50	≤ 50	≤ 50
	2019 6 ~ 19 ~20	cm										
				≤ 40%H	≤ 40%H	≤ 25	≤ 25	≤ 25	≤ 25	≤ 25	≤ 25	≤ 25
		mg/L										
				≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0

		1		2		3		4		5	
		1	2	1	2	1	2	1	2	1	2
	mg/L	≥ 8.0	≥ 8.0	≥ 8.0	≥ 8.0	≥ 8.0	≥ 8.0	≥ 8.0	≥ 8.0	≥ 8.0	≥ 8.0
	μ	≤ 50	≤ 50	≤ 50	≤ 50	≤ 50	≤ 50	≤ 50	≤ 50	≤ 50	≤ 50
	mV	38	41	37	44	40	43	>9	>70	43	
	cm	≤ 25	≤ 25	≤ 25	≤ 25	≤ 25	≤ 25	≤ 40%H	≤ 25	≤ 25	
2019 12 18 ~19	mg/L	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0
	mg/L										

	~20 3 m3/d 1											
		mg/L										
				≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0
		mg/L										
				≥ 8.0	≥ 8.0	≥ 8.0	≥ 8.0	≥ 8.0	≥ 8.0	≥ 8.0	≥ 8.0	≥ 8.0
		mV										
				≤ 50	≤ 50	≤ 50	≤ 50	≤ 50	≤ 50	≤ 50	≤ 50	≤ 50
	2020 6 12	cm										
				≤ 40%H	≤ 40%H	≤ 25	≤ 25	≤ 25	≤ 25	≤ 25	≤ 25	≤ 25
		mg/L										
				≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0
		mg/L										
				≥ 8.0	≥ 8.0	≥ 8.0	≥ 8.0	≥ 8.0	≥ 8.0	≥ 8.0	≥ 8.0	≥ 8.0

		Ⅰ		Ⅱ		Ⅲ		Ⅳ	
		Ⅰ	Ⅱ	Ⅲ	Ⅳ	Ⅴ	Ⅵ	Ⅶ	Ⅷ
2020 11 20	μS/cm	≤ 50	≤ 50	≤ 50	≤ 50	≤ 50	≤ 50	≤ 50	≤ 50
	cm	≤ 25	≤ 25	≤ 25	≤ 25	≤ 25	≤ 25	≤ 40%H	≤ 25
	mg/L	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0
	mg/L	≥ 8.0	≥						

»

			3
	№	№	№
	№	№	0.03mg/L
	1190	№	0.010mg/L
	№	№	0.02mg/L
	1190	№	0.002mg/L
	№	GB/T	0.004mg/L
	7467-87		
	755-2015	HJ	20MPN/L
	HJ/T 164-2004		/
			/

№
 100
 GB/T14848-2017
 100

↓
 HJ610-2016
 100
 100
 1
 100
 100

$$P=\frac{C_{L}}{C}$$

P_i—— i
 100

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			‰	‰		
U1 № ZK01	pH		6.5~8.5		0	0
			450		0	0
			3.0		0	0
			0.5		0	0
			20.0		0	0
			1.0		0	0
			250		0	0
			250		0	0
			/		/	/
			/		/	/
			/		/	/
			200		0	0
			/		/	/
			/		/	/
			0.5		0	0
	(MPN/100ml)		3.0		0	0
	m		/		/	/
	m		/		/	/
U2 № ZK02	pH		6.5~8.5		0	0
			450		0	0
			3.0		0	0
			0.5		0	0
			20.0		0	0
			1.0		0	0
			250		0	0
			250		0	0
			/		/	/
			/		/	/
			/		/	/
			200		0	0
			/		/	/
			/		/	/
			0.5		0	0
	(MPN/100ml)		3.0		0	0
	m		/		/	/
	m		/		/	/

2020 12 11 ~12

2 6:00 22:00 22:00 6:00 4

% GB3096-2008

HJ640-2012

5.0m/s

4 4 4 N2 N3 N4

% GB3096-2008 2 % 4 N1 N5 4a %

% 1.3-4

4 4 A

A

$$L_{eq} = 10 \left(\frac{1}{T} \int_0^T 10^{0.1L} dt \right)$$

4 4

$$L_{eq} = 10 \left(\frac{1}{n} \sum_{i=1}^n 10^{0.1L_i} \right)$$

T——

Lp—— [dB(A)]

Li—— i [dB(A)]

n——

A Leq A

				% GB3096-2008		4	
N1 4	12 11			70	55		

				%			
N2 җ		12	12	70	55		
		12	11	60	50		
		12	12	60	50		
N3 җ		12	11	60	50		
		12	12	60	50		
N4 җ җ		12	11	60 җ	50		

3 4				
	1			
	%			
	150	0	0	
	1.8	0	0	
	40	0	0	
g/kg	/	/	/	/



[illegible]

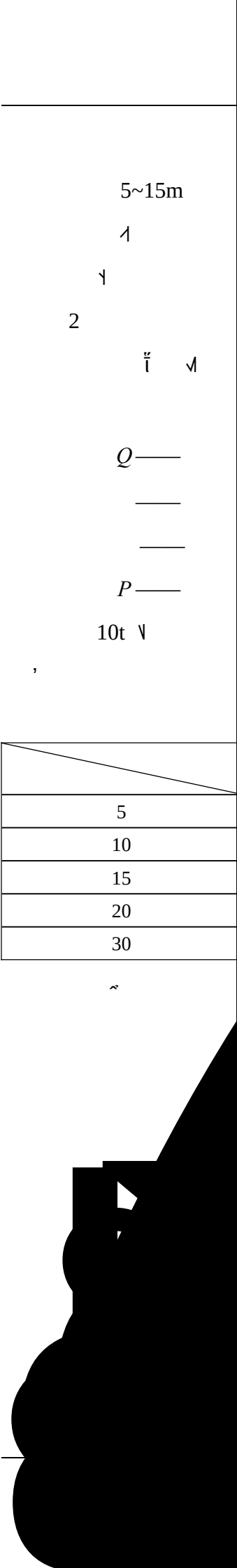
SS

13.28m³

2

No

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М				↓				Ў	1.8m						
SO ₂	NO _x	CO				SO ₂	NO _x	CO							
</															

γ

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m

dB(A)

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	90	64.0	64.0	60.5	56.0	50.0	46.5	44.0	10.0	56.2	70dB A
	90	64.0	64.0	60.5	56.0	50.0	46.5	44.0	10.0	56.2	
	90	64.0	64.0	60.5	56.0	50.0	46.5	44.0	10.0	56.2	
√	80	54.0	54.0	50.5	46.0	40.0	36.5	34.0	3.2	17.8	55dB A
∞	94.9	68.9	68.9	65.4	60.9	54.9	51.4	48.9	15.1	61.0	

% GB12523-2011

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 $\approx$

15.1m

61m

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100m

61m

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 w $\forall \frac{7}{8}$

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% GB12523-2011

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V

100dB A

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B
o 800m
o 9.5km
No
No
% GB18918-2002 A %
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	†				
	†	30000	0.347	8	0.111
				260	30
	B o	/	2.81	B	800m

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ǎ ǎ †
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	<i>B</i>	<i>H</i>	<i>Q_h</i>	<i>u</i>	<i>I</i>	<i>E_y</i>
A						0.036
B						1.929
						16.579

GB 3838-2002
GB 3838-2002
4.9km 6.5km 8.1km 9.5km

л л л 4 ъ о ‰ COD_{Cr}≤15mg/L NH₃-N≤0.5mg/L

л

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m = 0

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> 0

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1.1 1.3 ~

№

1

$\sim$ $\backslash$ ' COD
 NH₃-N $\int$ ‰ GB 3838-2002 ‰ $\backslash$

†

1	14.213	0.834
10	14.213	0.834
20	14.213	0.834
50	14.212	0.834
100	14.212	0.834
200	14.211	0.834
300	14.210	0.834
500	14.207	0.834
750*	14.205	0.834

*

‰

†

1	18.141	1.292
10	18.139	1.292
20	18.136	1.292
50	18.128	1.292
100	18.114	1.291
200	18.087	1.291
300	18.060	1.290
‰ 500	18.005	1.288
800*	17.923	1.286

*

‰

2

$\sim$ $\backslash$ ' COD
 NH₃-N GB 3838-2002 ‰ ‰

	4									
	λ λ λ 4 λ λ λ λ λ λ λ									
1	15.312	9.986	9.001	9.000	9.000	9.000	9.000	9.000	9.000	9.000
5	13.631	12.195	9.723	9.061	9.000	9.000	9.000	9.000	9.000	9.000
15	11.903	11.565	10.563	9.685	9.008	9.000	9.000	9.000	9.000	9.000
30	11.095	10.969	10.537	10.018	9.110	9.001	9.000	9.000	9.000	9.000
50	10.635	10.576	10.358	10.060	9.279	9.012	9.000	9.000	9.000	9.000
70	10.386	10.350	10.214	10.017	9.392	9.041	9.000	9.000	9.000	9.000
100	10.162	10.141	10.059	9.936	9.480	9.098	9.004	9.000	9.000	9.000
300	9.671	9.667	9.650	9.624	9.499	9.295	9.105	9.025	9.004	9.000
500	9.518	9.516	9.508	9.496	9.434	9.316	9.170	9.072	9.023	9.001
700	9.436	9.434	9.430	9.422	9.384	9.306	9.197	9.106	9.048	9.006
900	9.383	9.382	9.379	9.373	9.347	9.291	9.206	9.127	9.069	9.013
1100	9.344	9.344	9.342	9.338	9.318	9.275	9.208	9.140	9.084	9.022
1300	9.315	9.315	9.313	9.310	9.295	9.261	9.206	9.147	9.096	9.031
1500	9.292	9.292	9.291	9.288	9.276	9.248	9.202	9.151	9.104	9.039
2000	9.250	9.250	9.249	9.248	9.240	9.221	9.190	9.153	9.116	9.055
2500	9.221	9.221	9.221	9.220	9.214	9.201	9.177	9.149	9.119	9.066
3000	9.200	9.200	9.199	9.198	9.194	9.184	9.166	9.144	9.119	9.073
4900	9.150	9.150	9.150	9.149	9.147	9.142	9.134	9.122	9.109	9.081
6500	9.125	9.125	9.125	9.125	9.124	9.121	9.115	9.108	9.099	9.079
8100	9.108	9.108	9.108	9.108	9.107	9.105	9.101	9.096	9.090	9.075
9500	9.097	9.097	9.097	9.097	9.096	9.094	9.091	9.087	9.082	9.070

λ λ λ λ λ λ λ λ λ λ λ

1	0.507	0.125	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054
5	0.386	0.283	0.106	0.058	0.054	0.054	0.054	0.054	0.054	0.054
15	0.262	0.238	0.166	0.103	0.055	0.054	0.054	0.054	0.054	0.054
30	0.204	0.195	0.164	0.127	0.062	0.054	0.054	0.054	0.054	0.054
50	0.171	0.167	0.152	0.130	0.074	0.055	0.054	0.054	0.054	0.054
70	0.154	0.151	0.141	0.127	0.082	0.057	0.054	0.054	0.054	0.054
100	0.138	0.136	0.130	0.121	0.088	0.061	0.054	0.054	0.054	0.054
300	0.102	0.102	0.101	0.099	0.090	0.075	0.062	0.056	0.054	0.054
500	0.091	0.091	0.091	0.090	0.085	0.077	0.066	0.059	0.056	0.054
700	0.086	0.085	0.085	0.085	0.082	0.076	0.068	0.062	0.057	0.054

50	68.816	7.330
100	68.764	7.327
200	68.660	7.323
300	68.557	7.318
500	68.350	7.309
800*	68.040	7.296

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1	2.624	0.455	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054
5	1.939	1.355	0.349	0.079	0.054	0.054	0.054	0.054	0.054	0.054
15	1.236	1.098	0.691	0.333	0.057	0.054	0.054	0.054	0.054	0.054
30	0.907	0.856	0.680	0.468	0.099	0.054	0.054	0.054	0.054	0.054
50	0.720	0.696	0.607	0.486	0.167	0.059	0.054	0.054	0.054	0.054
70	0.619	0.604	0.549	0.469	0.214	0.071	0.054	0.054	0.054	0.054
100	0.528	0.519	0.486	0.435	0.250	0.094	0.056	0.054	0.054	0.054
300	0.328	0.326	0.320	0.309	0.258	0.174	0.097	0.064	0.056	0.054
500	0.262	0.257	0.232	0.183	0.124	0.083	0.064	0.054		
700	0.233	0.233	0.234							

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表 4

			平均				标准差	变异系数	
								变异系数	变异系数
						8760		0.06	3.38×10^{-5}

表 5

				标准差	变异系数	
					变异系数	变异系数
			8760		0.03	1.87×10^{-4}
			2		0.67	3.75×10^{-3}

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表 6

	10	25	50	105	1	2	5	10	20
变异系数	9.84×10^{-5}	1.04×10^{-4}	1.11×10^{-4}	1.22×10^{-4}	0.98	1.04	1.11	1.22	1.22
变异系数	1.55×10^{-2}	1.64×10^{-2}	1.75×10^{-2}	1.82	7.77	8.21	8.74	9.21	9.68
变异系数	1.47×10^{-13}	6.24×10^{-8}	5.89×10^{-7}		0.00	0.00	0.01	0.01	0.01
变异系数	2.94×10^{-10}	1.25×10^{-4}	1.18×10^{-3}		0.00	0.06	0.59		

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10		2.89×10^{-3}	28.86	5.16×10^{-1}	257.82
25		3.09×10^{-3}	30.91	5.52×10^{-1}	276.1

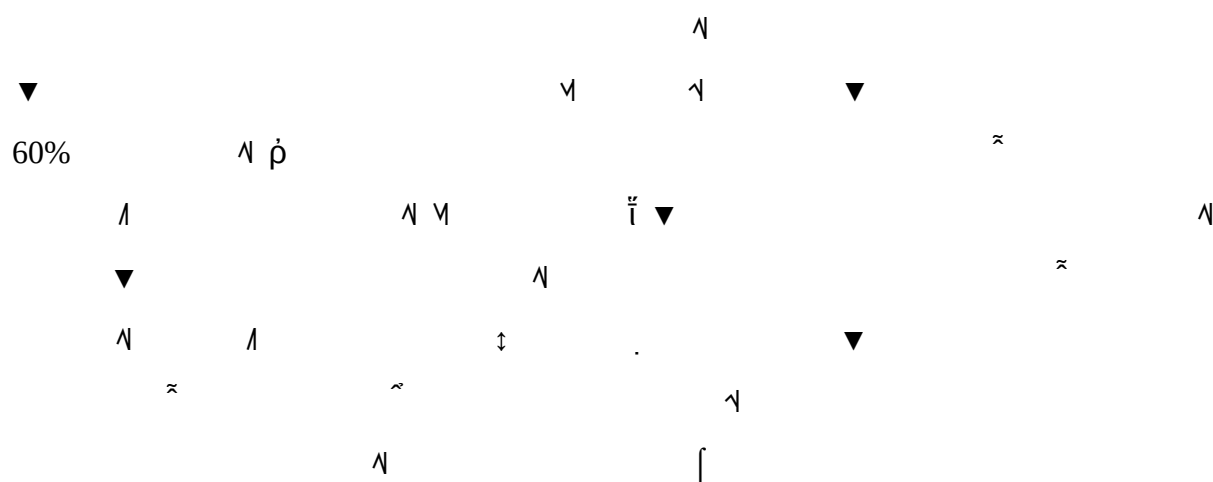
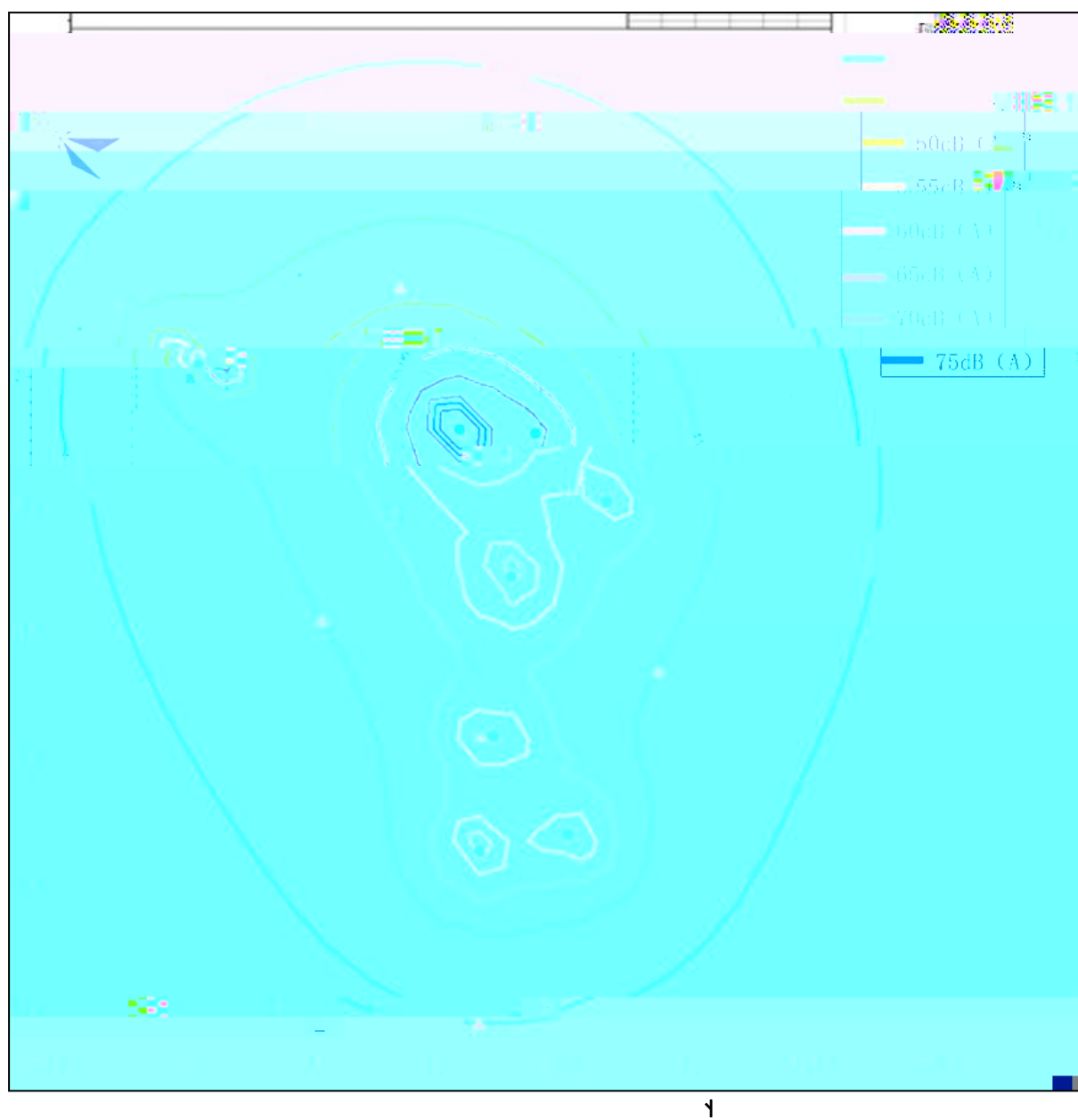
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$$L = \rho_i A \, \text{dB(A)}$$

$$\rho_i \left[\rho \right] \quad \text{m}$$



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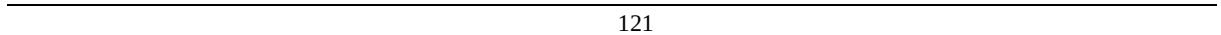
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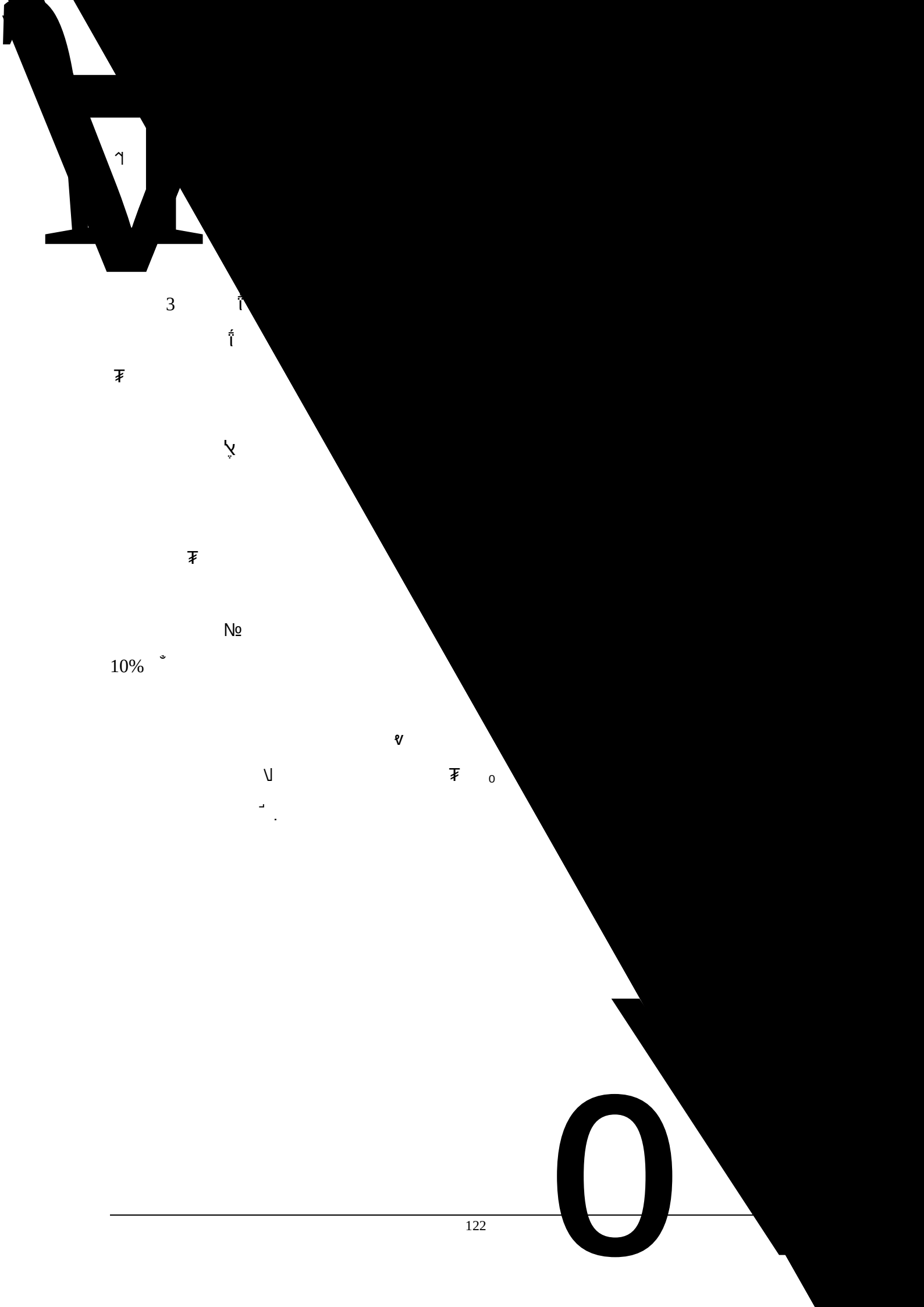
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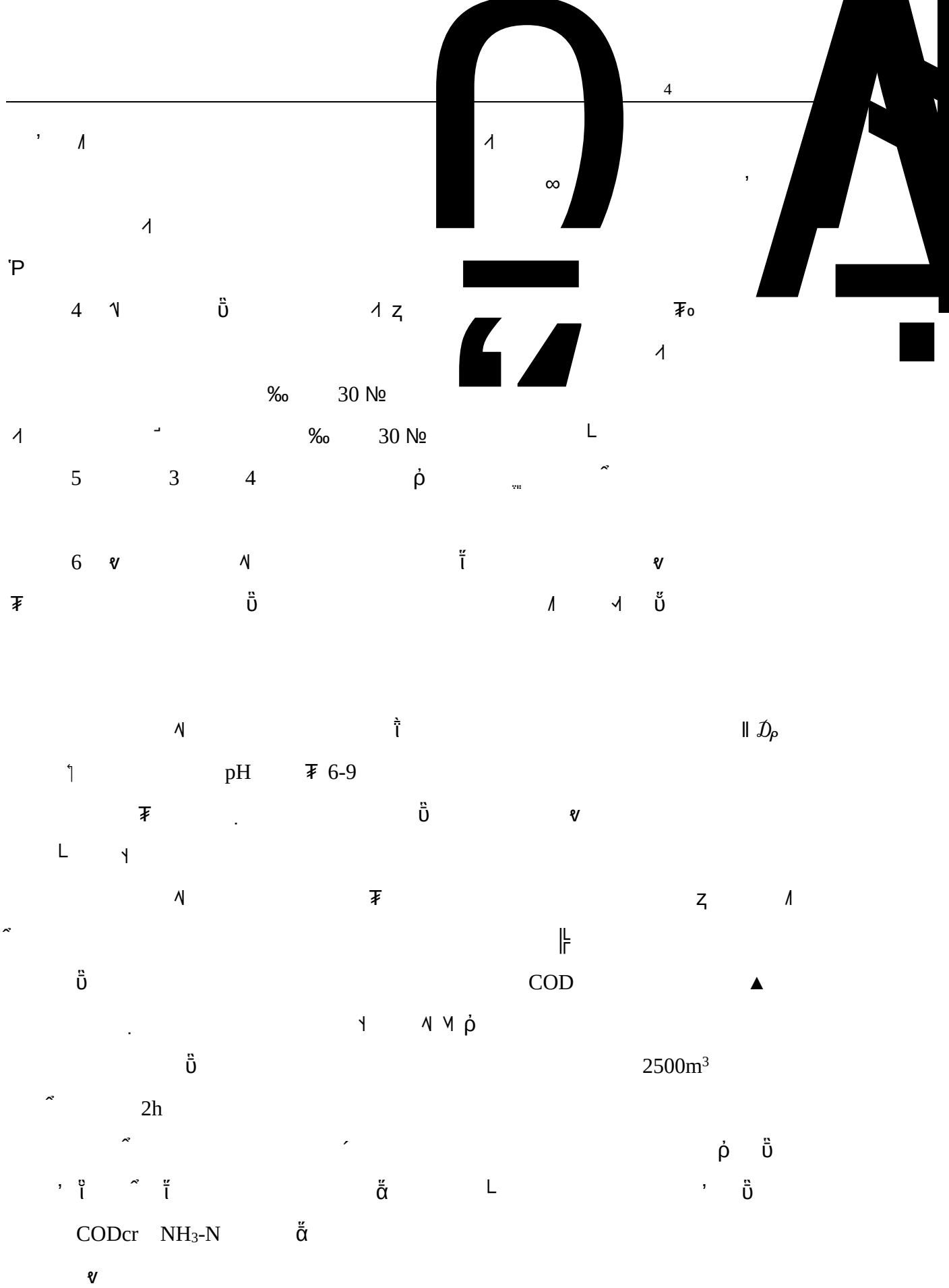
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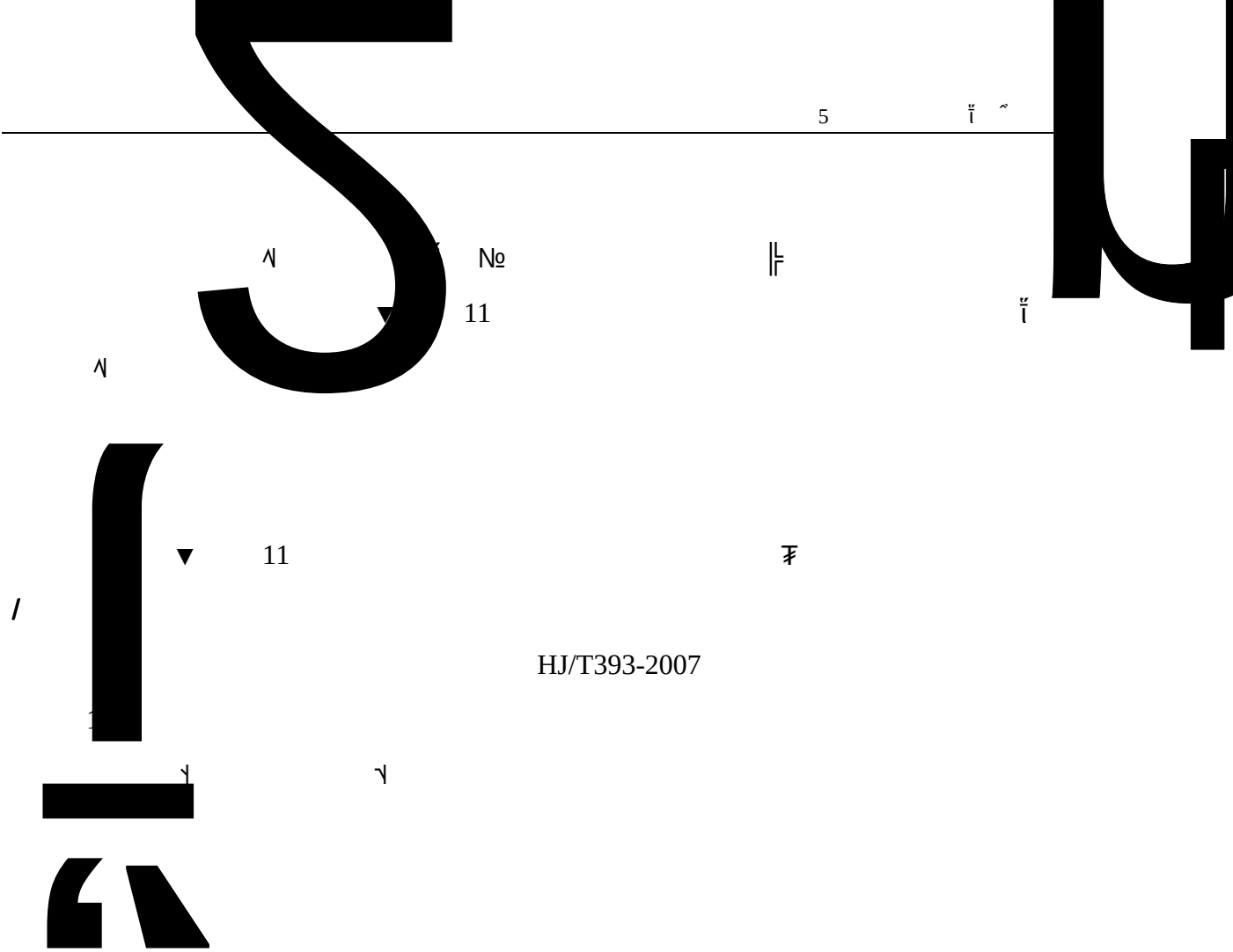
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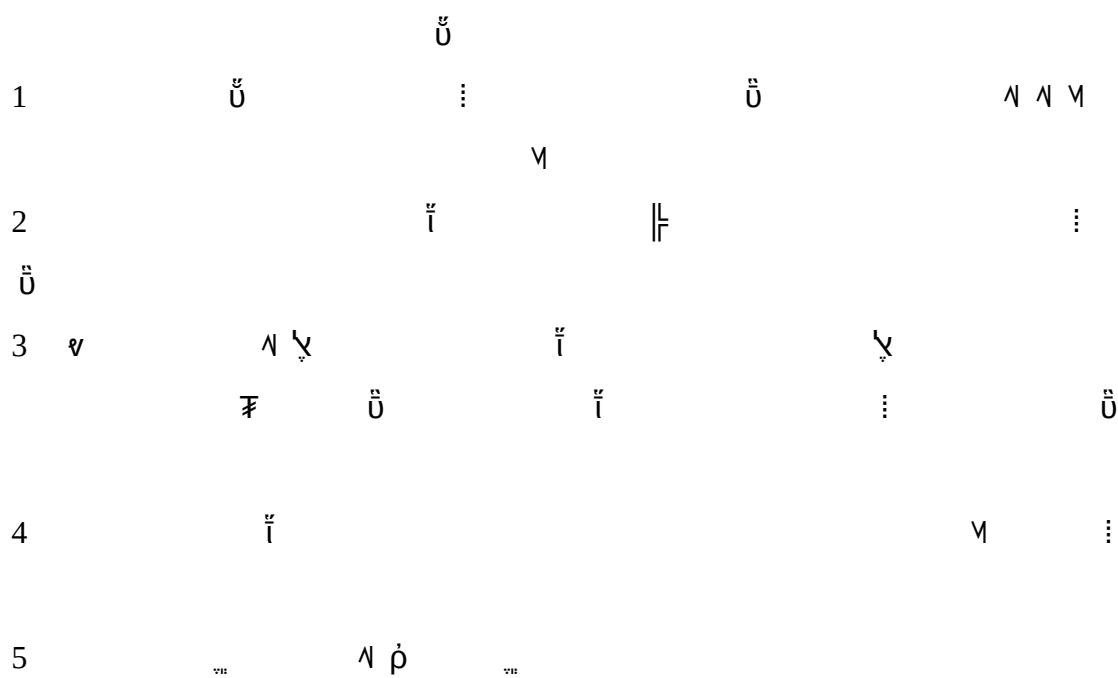
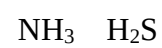
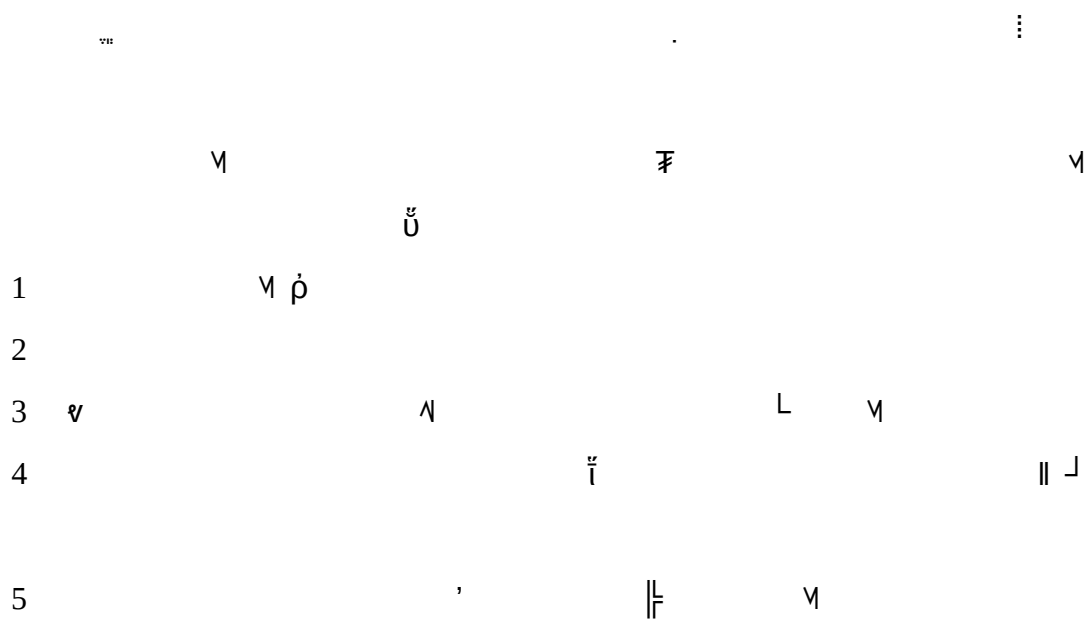
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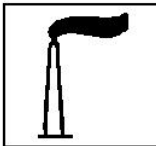
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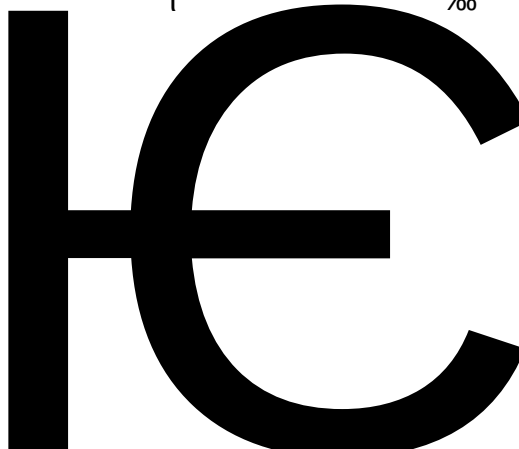
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A large, bold, black stylized letter 'E' logo. The 'E' is composed of thick strokes. The vertical stem on the left has a small horizontal tick mark near the top. The top horizontal bar of the 'E' is slightly curved upwards on the right side. The bottom horizontal bar is also slightly curved upwards on the right side. The overall shape is a modern, geometric interpretation of the letter 'E'.

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1. 监测点布设：在厂界外50m处，上风向、侧风向、下风向各设1个监测点，共3个。

2. 监测因子：SO₂、NO_x、CO、PM₁₀、PM_{2.5}、TSP、O₃、H₂S、NH₃、VOCs。

3. 监测频次：SO₂、NO_x、CO、PM₁₀、PM_{2.5}、TSP、O₃、H₂S、NH₃、VOCs。

4. 监测方法：SO₂、NO_x、CO、PM₁₀、PM_{2.5}、TSP、O₃、H₂S、NH₃、VOCs。

5. 监测结果：SO₂、NO_x、CO、PM₁₀、PM_{2.5}、TSP、O₃、H₂S、NH₃、VOCs。

6. 监测结论：SO₂、NO_x、CO、PM₁₀、PM_{2.5}、TSP、O₃、H₂S、NH₃、VOCs。

7. 监测报告：SO₂、NO_x、CO、PM₁₀、PM_{2.5}、TSP、O₃、H₂S、NH₃、VOCs。

8. 监测记录：SO₂、NO_x、CO、PM₁₀、PM_{2.5}、TSP、O₃、H₂S、NH₃、VOCs。

9. 监测数据：SO₂、NO_x、CO、PM₁₀、PM_{2.5}、TSP、O₃、H₂S、NH₃、VOCs。

10. 监测评价：SO₂、NO_x、CO、PM₁₀、PM_{2.5}、TSP、O₃、H₂S、NH₃、VOCs。

11. 监测总结：SO₂、NO_x、CO、PM₁₀、PM_{2.5}、TSP、O₃、H₂S、NH₃、VOCs。

12. 监测附件：SO₂、NO_x、CO、PM₁₀、PM_{2.5}、TSP、O₃、H₂S、NH₃、VOCs。

13. 监测备注：SO₂、NO_x、CO、PM₁₀、PM_{2.5}、TSP、O₃、H₂S、NH₃、VOCs。

14. 监测日期：SO₂、NO_x、CO、PM₁₀、PM_{2.5}、TSP、O₃、H₂S、NH₃、VOCs。

15. 监测人员：SO₂、NO_x、CO、PM₁₀、PM_{2.5}、TSP、O₃、H₂S、NH₃、VOCs。

16. 监测单位：SO₂、NO_x、CO、PM₁₀、PM_{2.5}、TSP、O₃、H₂S、NH₃、VOCs。

17. 监测地点：SO₂、NO_x、CO、PM₁₀、PM_{2.5}、TSP、O₃、H₂S、NH₃、VOCs。

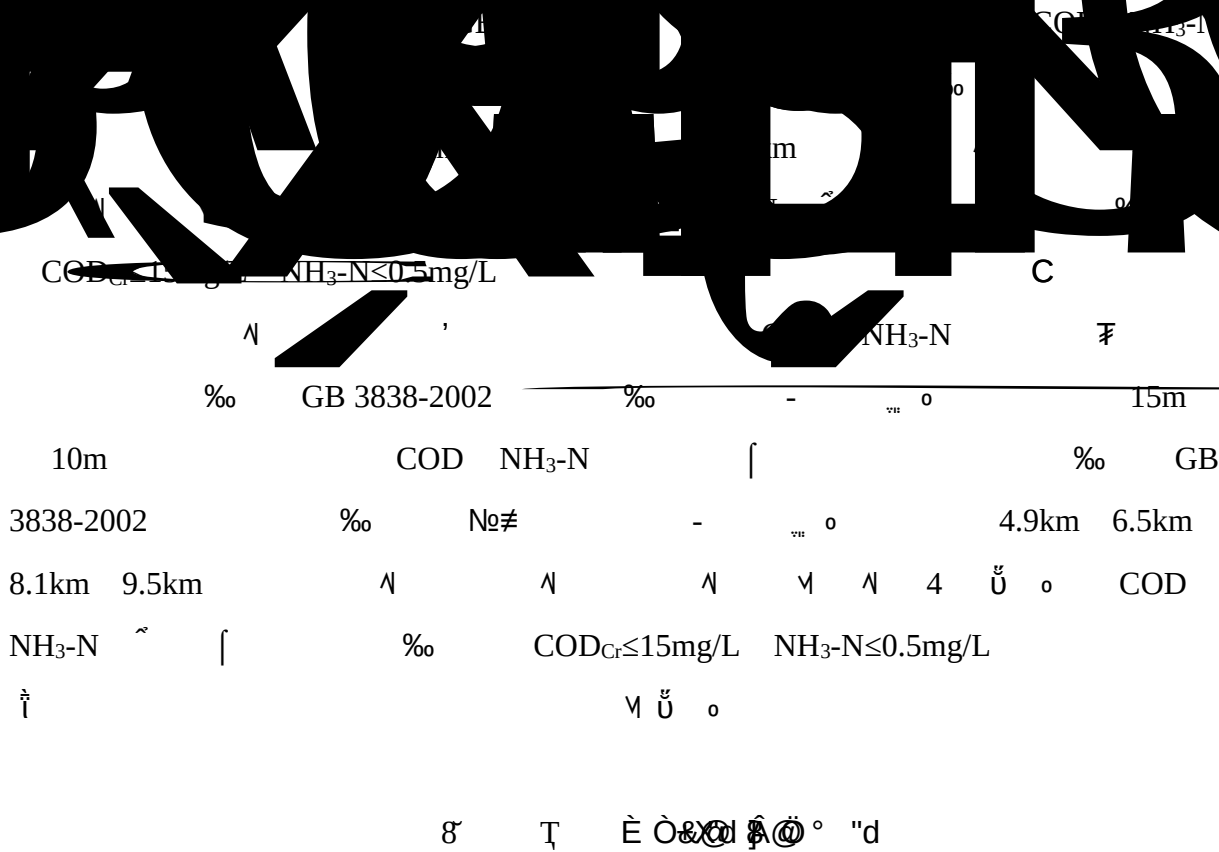
18. 监测时间：SO₂、NO_x、CO、PM₁₀、PM_{2.5}、TSP、O₃、H₂S、NH₃、VOCs。

19. 监测天气：SO₂、NO_x、CO、PM₁₀、PM_{2.5}、TSP、O₃、H₂S、NH₃、VOCs。

20. 监测结论：SO₂、NO_x、CO、PM₁₀、PM_{2.5}、TSP、O₃、H₂S、NH₃、VOCs。

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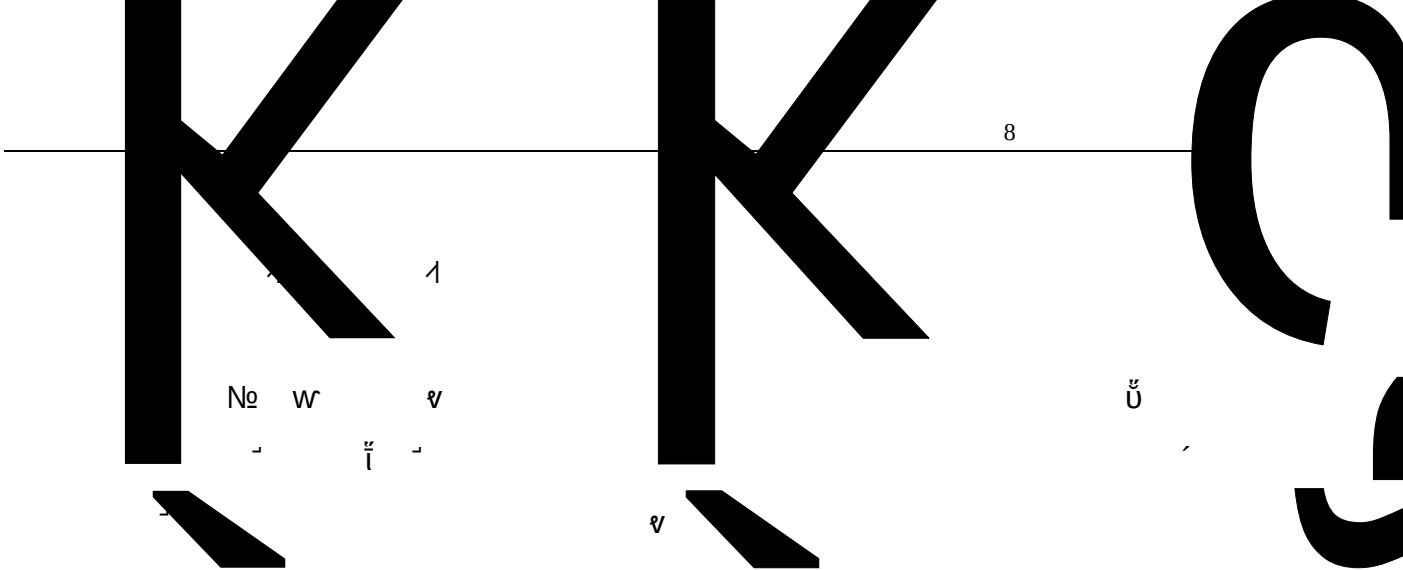
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