

5.1.5

ч ч

III

5.2

5.2.1

SO₂ ч NO_x ч ч 5 III
5-1III

SO₂ NO_x 0.06т/a 500т/a

III

5-1 mg/m³

SO ₂	0.5	0.15	0.06	Э Ю GB3095-2012
NO ₂	0.2	0.08	0.04	
NOx	0.25	0.1	0.05	
CO	10	4	↓	
PM ₁₀	↓	0.15	0.07	
PM _{2.5}	↓	0.075	0.035	
O ₃	0.2	0.16(8h)		
	0.20	↓	↓	Э Ю HJ2.2-2018 D
	2.0	↓	↓	Э Ю

5.2.2

Э Ю

HJ2.2-2018 1 5.3 Л III

5.2.2.1

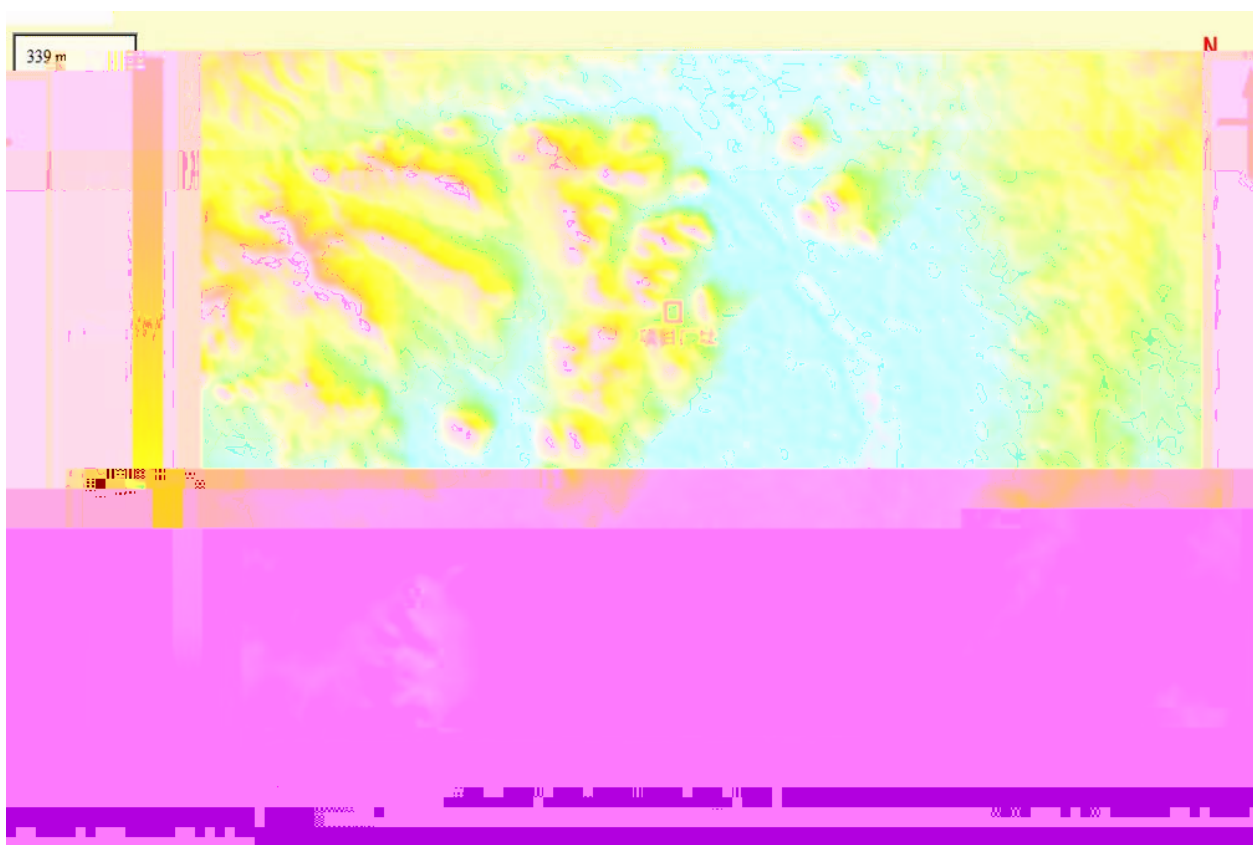
Э Ю HJ2.2-2018 AERSCREEN
III

HJ2.2-2018 C 5-2,

5-1III

5-2

/	/		3km
		20000	
/ Ń		41.7	20
/ Ń		-16.3	
			3km
	/m	90	SRTM DEM UTM 90m
			3km
	/m	--	
	/ α	--	



5-1

5.2.1.2

Э

-

Ю HJ2.2-2018

A

P_i i t t i

10% $D_{10\%}$ P_i

$$P_i = \frac{C_i}{C_{0i}} \times 100\%$$

P_i i %

C_i i 1h $\mu\text{g}/\text{m}^3$

C_{0i} i $\mu\text{g}/\text{m}^3$ III

AERSCREEN 5-3 III

5-3

		g/m^3	m	$D_{10\%}$ m	g/m^3	%
P1		0.8246	255	1 1	450	0.18
P2		0.1098	117	1 1	450	0.02
		0.0469		1 1	200	0.02
		0.1116		1 1	2000	0.01
P4	SO ₂	0.1906	155	1 1	500	0.04
	NO _x	1.2273		1 1	200	0.61
		0.104		1 1	450	0.02
		1.7511	23	1 1	450	0.39
		1.8473		1 1	2000	0.09

P4 P_{NOx}=0.61% 1%

1 5.3.3.2 4 4 4 4 4 4

L

III

5.2.1.3

3 Ю HJ2.2-2018 1 5.4.2

5km L E118 ≈ 34 °

28.93N N35 ≈ 43 ° 22.59N 5km III

5.2.1.4

5-4III

5-4

/m

5-5

m

m

m

m

m³/h

Ň

h

kg/h



											0.017
P4	33	53	148	15	0.25	78	278	7200		SO ₂	0.57
										NO _x	1.11
											7.15
P1	25m			15m	40m						

5-7

	m		m	m	m	m ³ /h	Ň	h			g/h
	X	Y									
P1	64	5	149	40	0.3	2578	30	4			1058.2
P2	33	-2	149	15	0.62	5324	20	4			0.875
											2.085
											0.085

5-8

	m		m	m		t/a	
	X	Y					
	57	3	150	31 § 16 § 15		0.0215	0.0227

5.2.5

5.2.5.1

5-9

			mg/m ³	g/h	kg/a
1	P1		6.98	17.99	65.32
2	P2		0.03	0.175	0.48
			0.08	0.417	1.14
			0.003	0.017	0.05
3	P4		7.3	0.57	4.08
		SO ₂	14.3	1.11	8
		NO _x	92	7.15	51.47

5-10

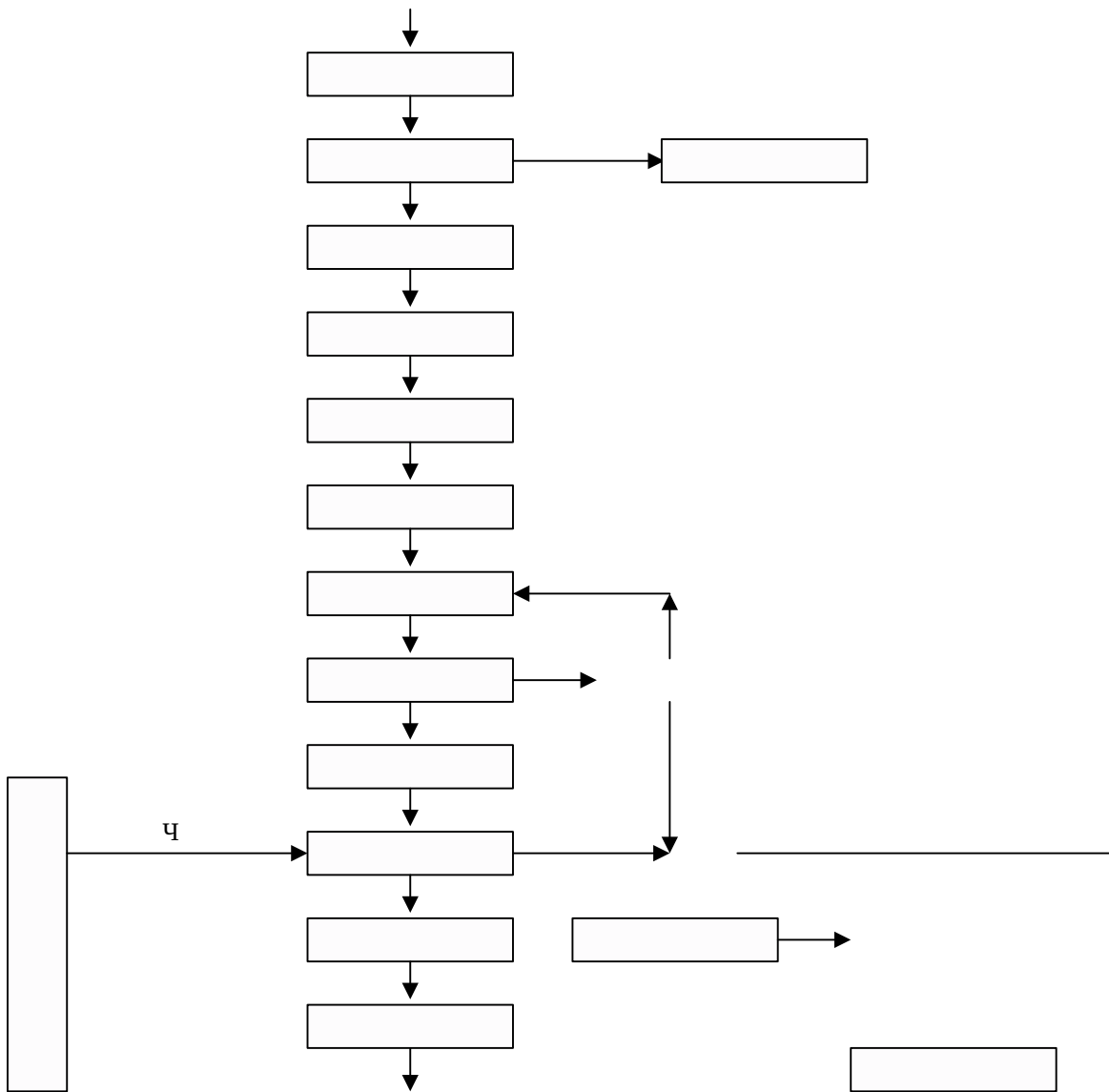
mg/m³ kg/a

ψ

5.3

5.3.1

5.3.1.1



5.3.2.3

		11290m ³ /a				COD 5.65t/a	Ч
0.4t/a			14237.54m ³ /a			COD 7.12t/a	Ч
	0.5t/a	COD500mg/L	Ч	35mg/L		576m ³ /a	
		COD0.29t/a	Ч	0.02t/a	COD500mg/L	Ч	35mg/L III

5.3.3

5.3.3.1

III

5.3.3.2

III

5-17

					ч ч					
1	DW001	pH	K Ŝ		-	-	-	3	1 /	
2		COD	Ŝ Ŝ				RenQ-IV	3		
3			Ŝ Ŝ				WDet-5000	3		
4			Ŝ Ŝ				QTLD15131 413ECA	3		
5		SS	K Ŝ		-	-	-	3		
6			K Ŝ		-	-	-	3		

5.3.4

5.3.4.1

Ю GB18918-2002

A ч Ә

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Ю DB 37/3416.2 ¶

2108

III

III

5.3.4.2

5-18 L

6		COD ⅥSS Ⅵ			-	-	-	DW001		

5-19

t/a

1 DW001 118 □ 34 ń 35 □ 43 ń 2.63 1
 25.03Ñ 26.16Ñ

5.4

5.4.1

5.4.1.1

	Ի	Լ	III	Յ
	Ю	HJ610-2016	A	
	ն	III		
			III	
Յ	-	Ю	HJ610-2016	
	III			

5.4.1.2

		Յ	լ	Ю
HJ610-2016	3			
6	20km ²	20km ²	III	
	4-5III			

5.4.1.3

	Կ			
		III	5.12	m ³
0.0021	/km ²	4.21	m ³	0.0079
	1.14m ³	0.74	m ³	64.9
			III	
2017				
	III			
		III		
			III	
		III		
			III	
		III		III

5.4.2

5.4.2.1

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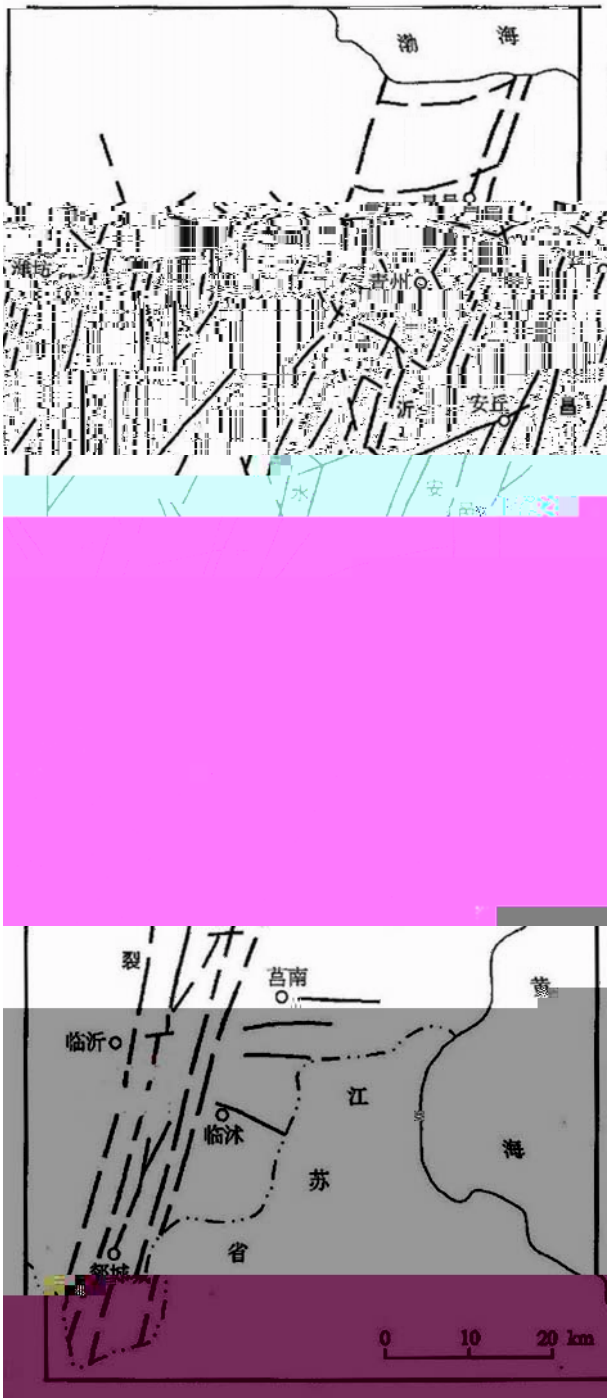
1 1

III

III

1 1

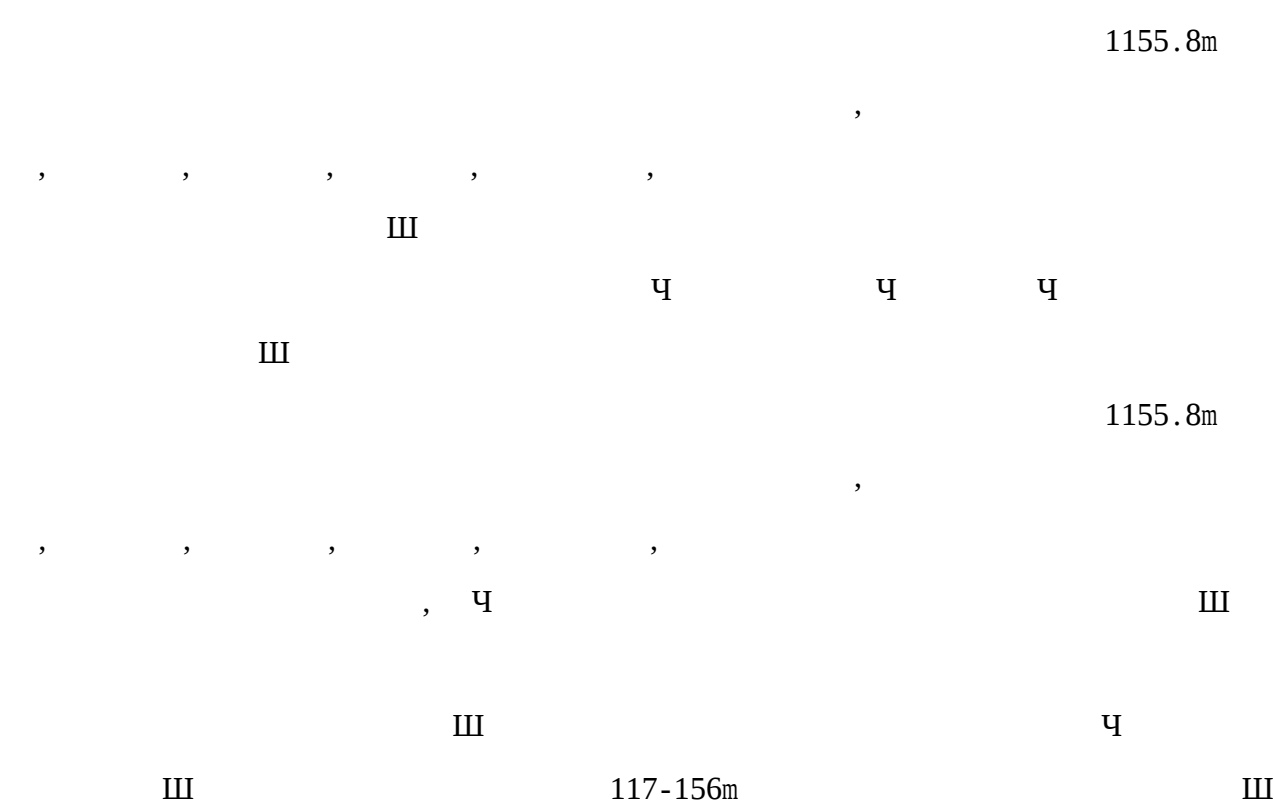
5-3III



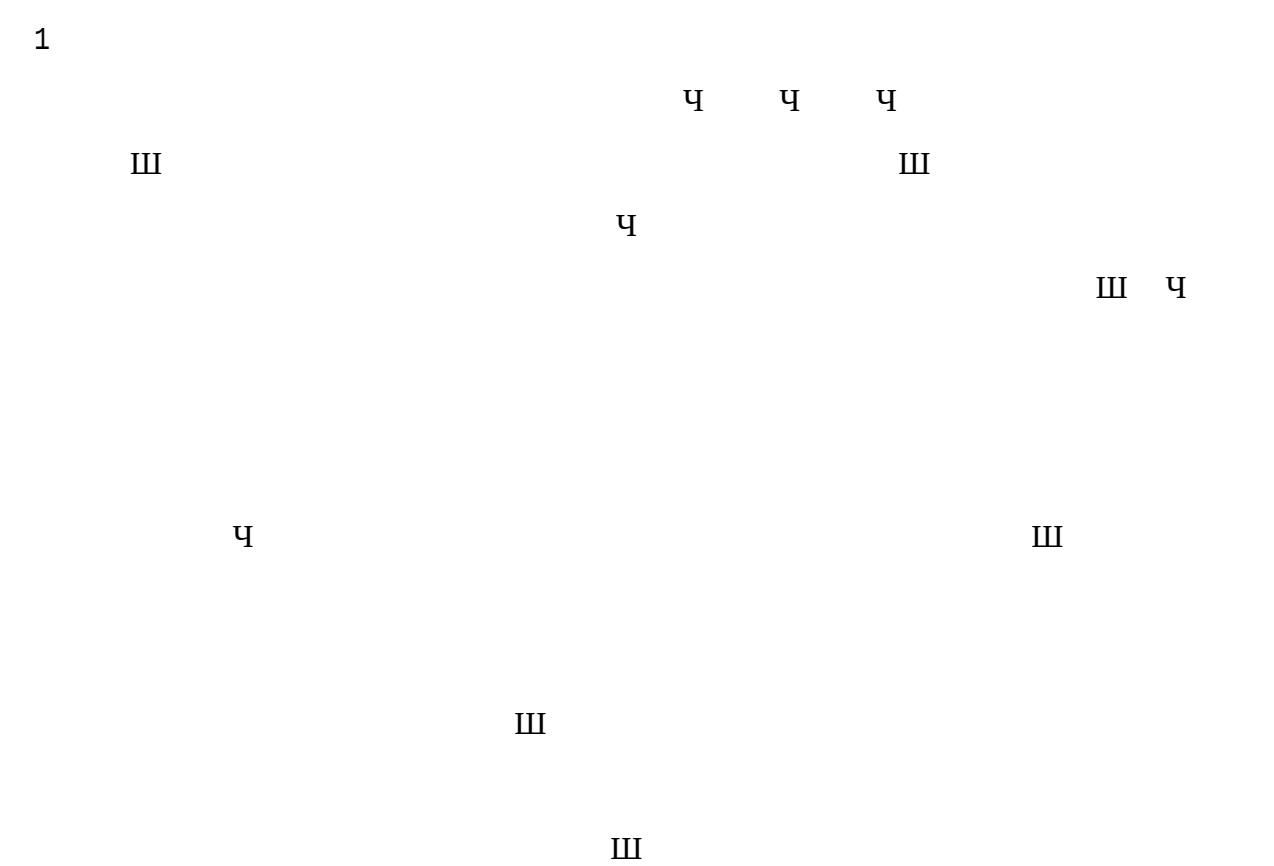
5-3

				Ч		Ч		Ч
		Ч		III				III
1						↓		
			III					
			III					
	III							
2						III		
		↓				↓	Ч	↓
	ŷ	↓			↓			25 м -30 м
65 м		85 м	↓		-			
	III							
			III					
Ÿ	↓							15 м
	5 м III							III
				45 м	III			
3						III		↓
Ч	↓		III					
ŷ		↓				III		Ч
Ч	Ч		III		12 м			
34km		4 8km	III				III	
Ÿ	↓					III		
	Ч	Ч			III			
	III							

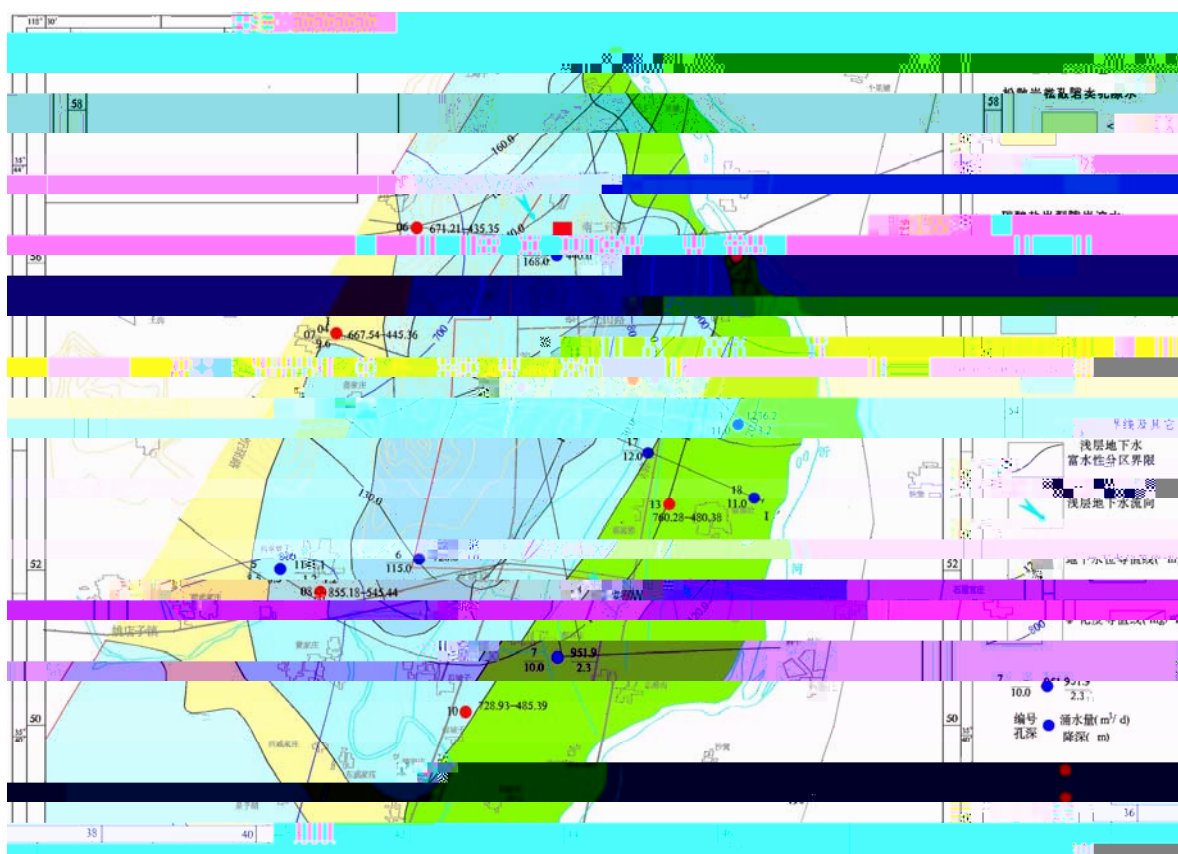
5.4.2.3



5.4.2.4



5-4III



5-4

III

2

4

III

4

4

III

4

III

 $\hat{y}$

III

40km

1-5km

III

10-12m

15mIII

III

5.4.2.5

1

4

4

III

 $\hat{y}$

4

III

 $\ddot{Y}$

III

III

III

2

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III

III

4

4

III

4

III

3

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III

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III

4

2012

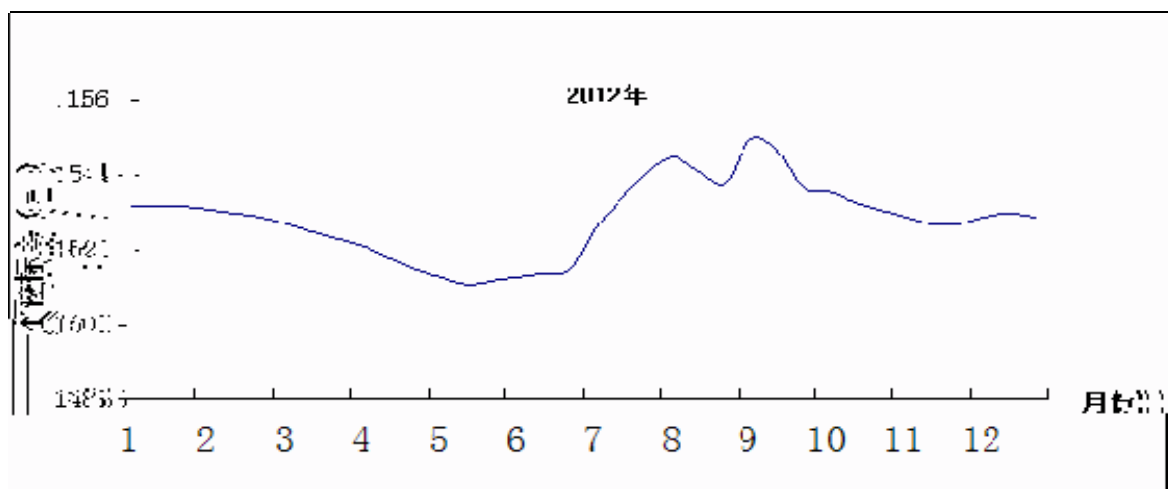
—

5-5 III

1 5

III

2.0-6.0mIII



5-5

5.4.2.6

5-6 III

1

- -

-

1000mg/L

450mg/L III

2

-

-

-

1000mg/L

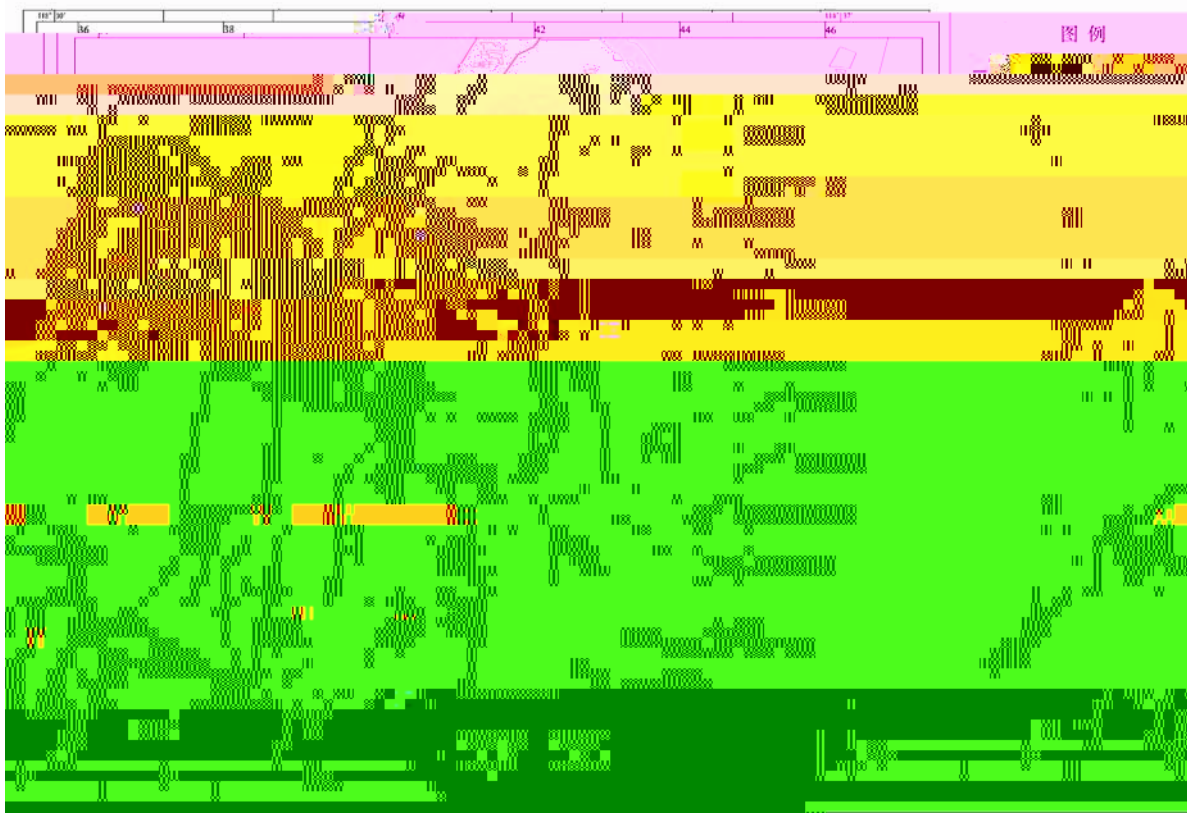
550mg/LIII

4

III

3

68.5m/d 19.5m/dIII



5-6

5.4.2.7

Э

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5-7

5-12III

5.72-6.52m

0.91-2.44mIII

III

2.90-8.50m

-

Ч

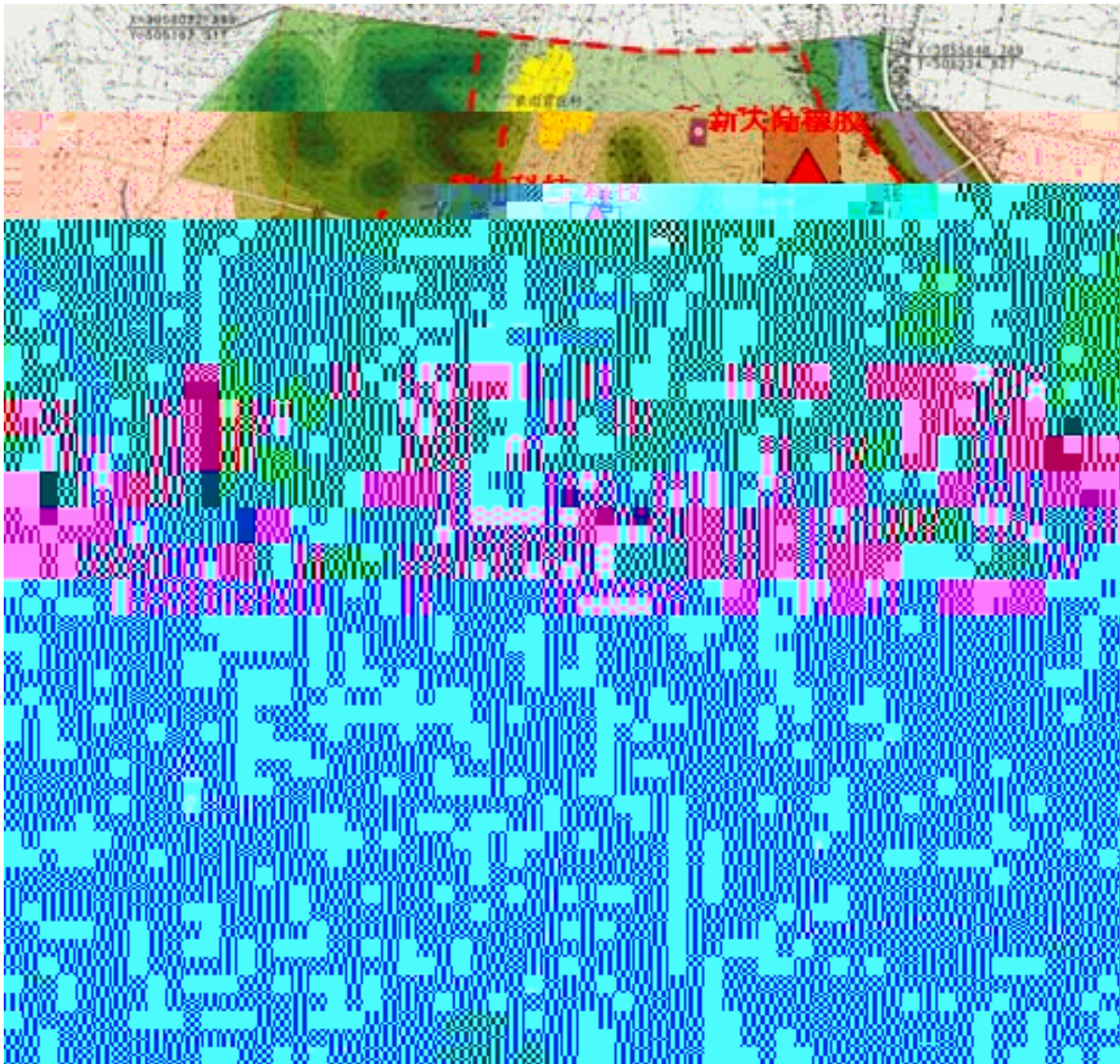
1000mIII

III

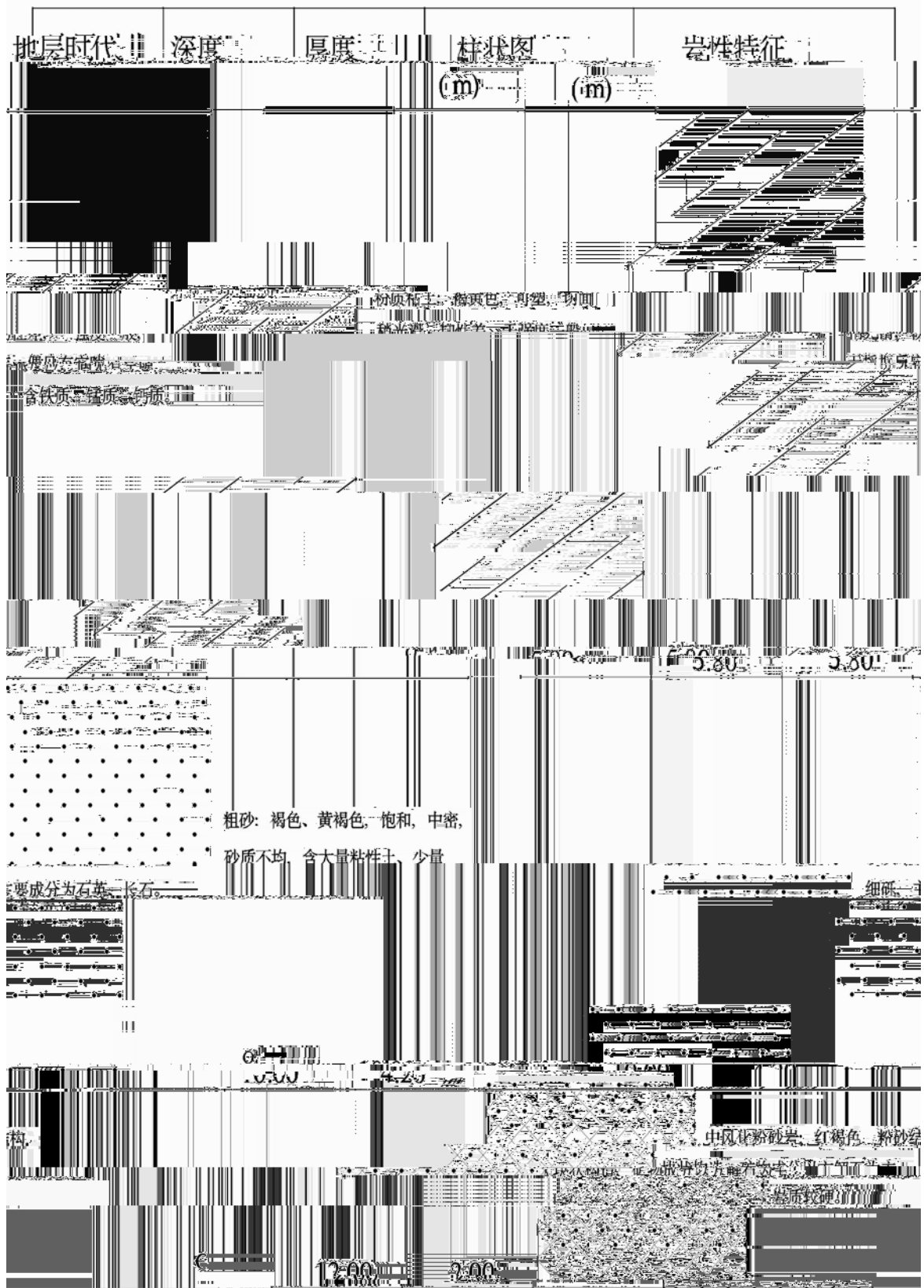
3.5-9.6m

Ч

680mIII



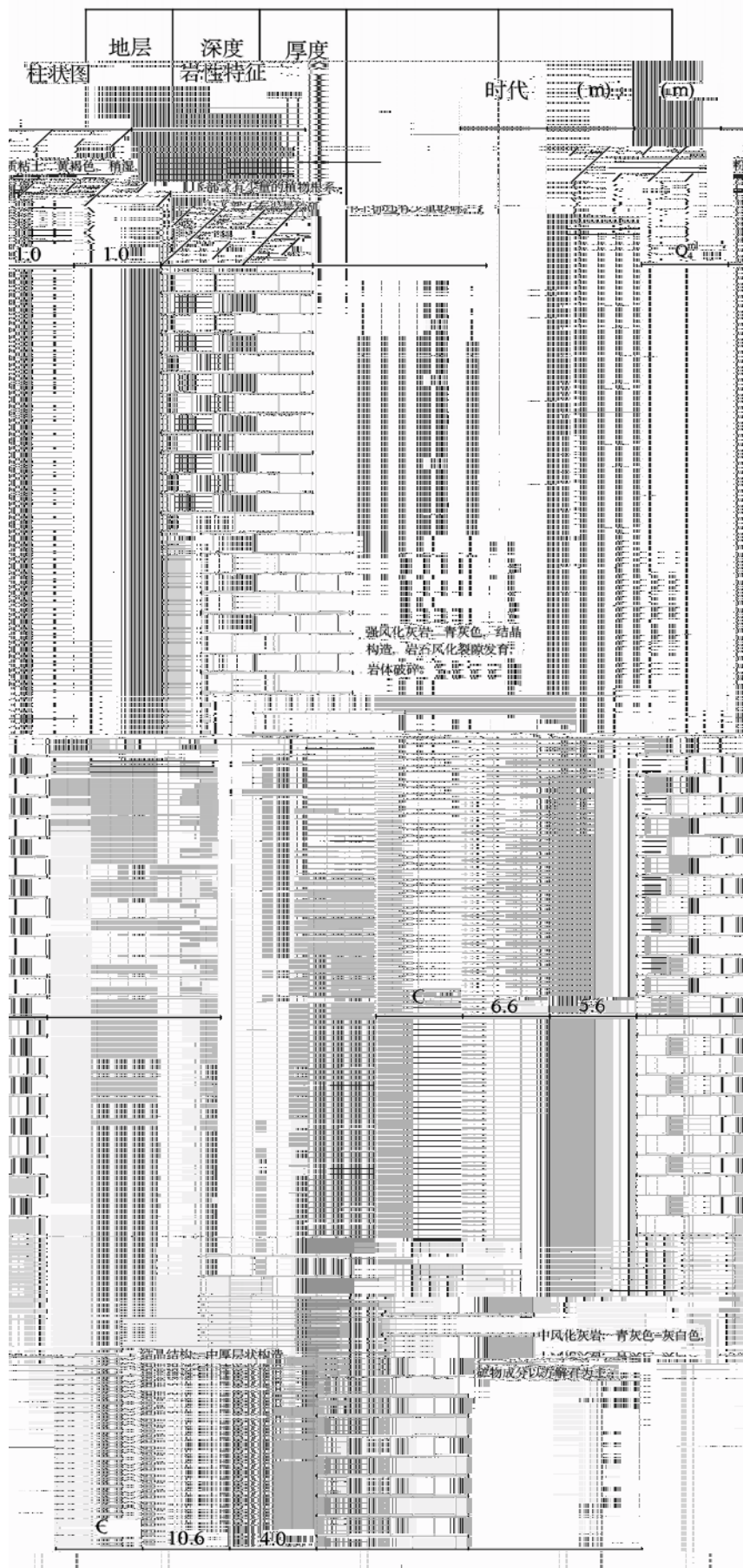
5-7



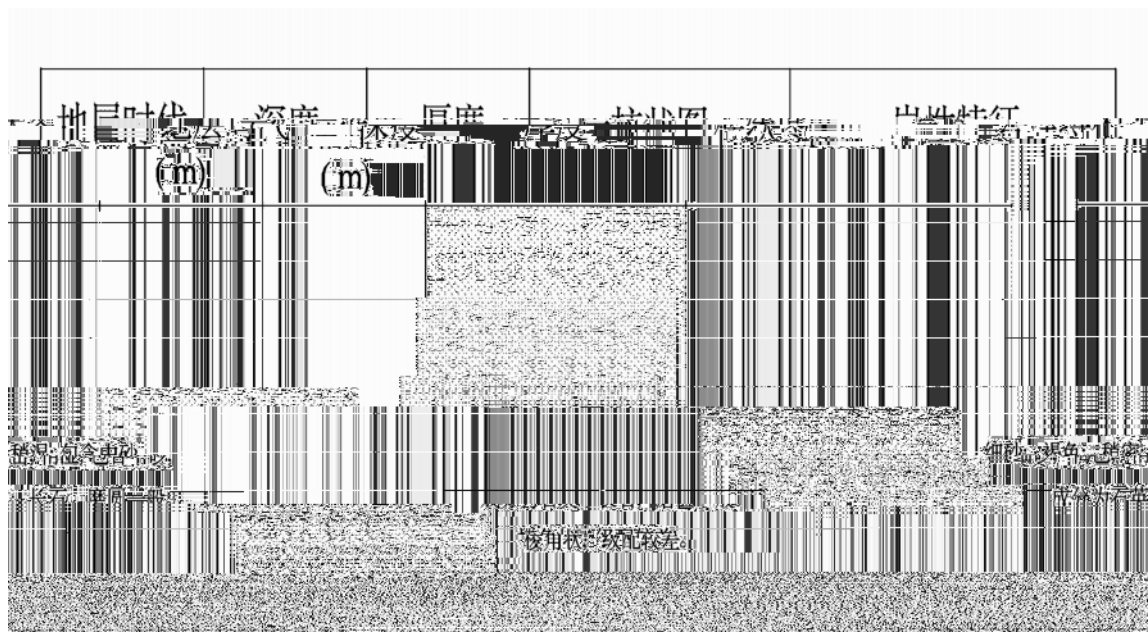
5-8



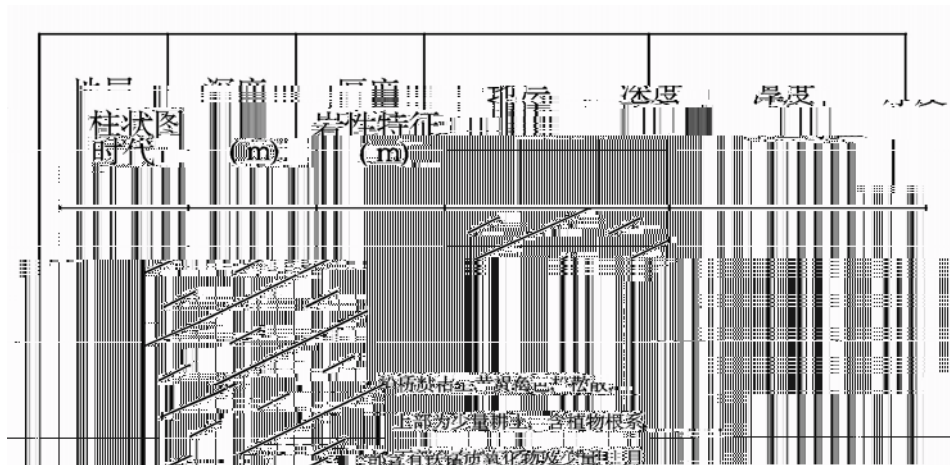
5-9



5-10



5-11

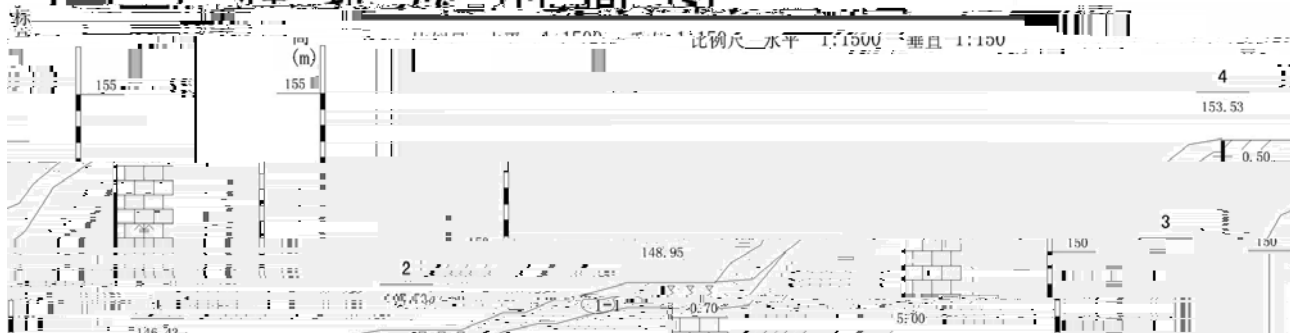


5-12

5.4.2.8

III									
3									
$\hat{y}$	Q_4^{d1+e1}		Ψ		Ψ	Ψ			
	0.20	0.90m	0.55m		146.03	157.00m			
152.11m	0.20	0.90m	0.55mIII						
$\hat{y} - 1$	Q_4^{d1}								
	-		Ψ						
			0.40	0.70m,	0.53m	147.10			
154.40m	149.92m	0.40-0.70m		0.53mIII					
$\ddot{Y}$	Q_4^{d1+e1}								
-			Ψ						
			III						
	0.50	0.70m	0.60m	146.40	153.90m	150.15m			
	1.00	1.10m	1.05mIII						
$\acute{Z}$	O_2								
-									
55	80%								
	Ψ		RQD						
$\bar{O}$	III		3.30	5.20m	4.24mIII				
			5-13	5-14III					
			$\acute{Z}$	III		Mb $\acute{u}$			
1.0m			10^{-4} cm/s	10^{-7} cm/s	Ψ	III			

1-1'工程地质剖面图



5-14

5.4.3

III

III

5.4.3.1

Э

Ю HJ2.1-2011

Э

Ю HJ610-2016

III

5.4.3.2

20km²

4-5III

5.4.3.3

Э Ю HJ610-2016 100d Ч

1000d 20 7300 III

COD IIICOD

Э Ю GB/T14848-2017 η 3mg/L

Ч Ч III

5.4.3.4

Э Ю

GB18918-2002 A III

III

III

III

COD

III

III

COD

III

COD

III

10%

COD

III

III

50% 10 III

III

5.4.3.5

Э Ч I Ю HJ610-2016 9.7.2

Ч III

III

5.4.3.6

1



					ч
ч					
	III				
		III			
			ч	ч	III
	III				III
2					
		III			
	x		y		
	$C(x,y,t)=\frac{m_t}{\ln\sqrt{D_LD_t}}e^{\frac{xu}{D_L}a}\llbracket K-EW\frac{\S u\,t}{\copyright D_L}E_{\frac{.}{i}\frac{.}{1/4}}^{\cdot 0}\rrbracket$				1
	$E\sqrt{\frac{u\,x}{D_L}+\frac{u\,y}{D_LD_T}}$				
	x\,y\,l\,l				
	t\,l\,l	d			
	C(x\,y\,t)\,l\,l\,t	x\,y		g/L	
	M\,l\,l	m			
	m_t\,l\,l		kg/d		
	u\,l\,l	m/d			
	n\,l\,l				
	D_L\,l\,l	m^2/d			
	D_T\,l\,l	y	m^2/d		
	\tilde n\,l\,l				
	K_0(\,\tilde a\,)\,l\,l				
	$W\frac{\S u\,t}{\copyright D_L}E_{\frac{.}{i}}^{\cdot}\,l\,l$				

x

2

x y l

t l d

C(x y t) l t Æ

Š

m_M l

$D_{L=}\ L_L\ \omega=10\ \S\ 1.3m/d\ =13m^2/d$

4

428.5m³/a

14099.14m³/aIII3007200hччIII

COD2000mg/LCOD28198kg/a93.99kg/dIII

1

т ч ч ч Ł 10%

1409.9m³/a, COD2000mg/L

ч COD9.4kg/dIII

2

50%

7049.5m³/aCOD2000mg/LIIIч

10COD469.95kgIII

5.4.3.7

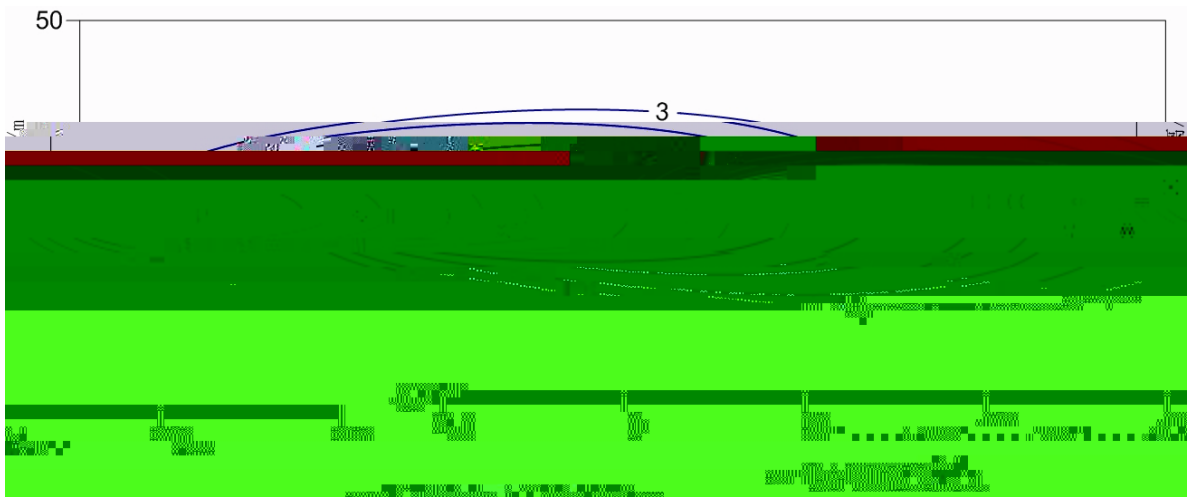
1

1

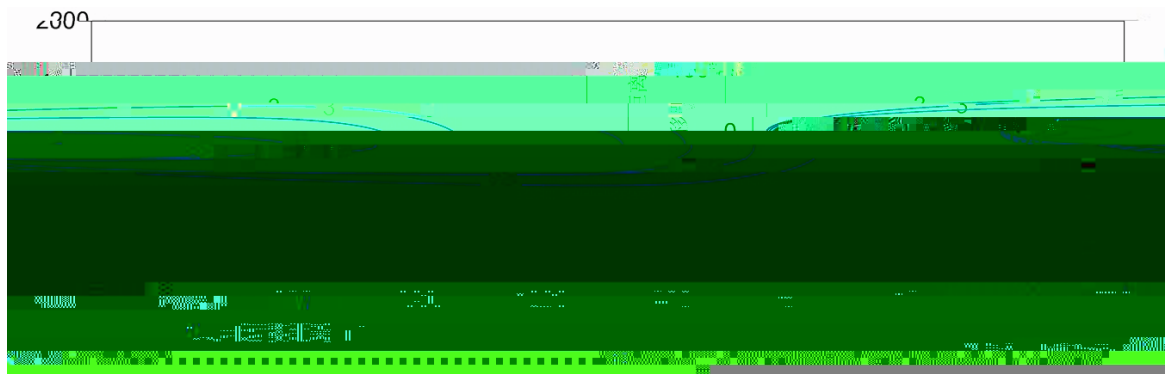
CODIIICOD

100d ч 1000d ч 7300dIIICOD

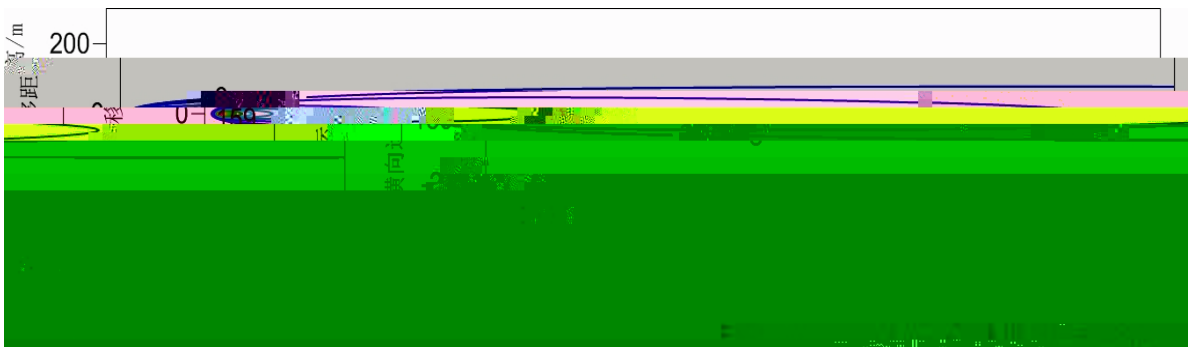
ЭЮ GB/T14848-2017 η3mg/LIII



5-15 100dCOD



5-16 1000dCOD



5-17 7300dCOD

Э ИО GB/T14848-2017 η
COD COD 100d Ч 1000d 7300d

159mg/L

Ч

7300d

3.5km

III

III

III

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2

COD

III

COD

100d 41000d 4

7300d

III COD

Э

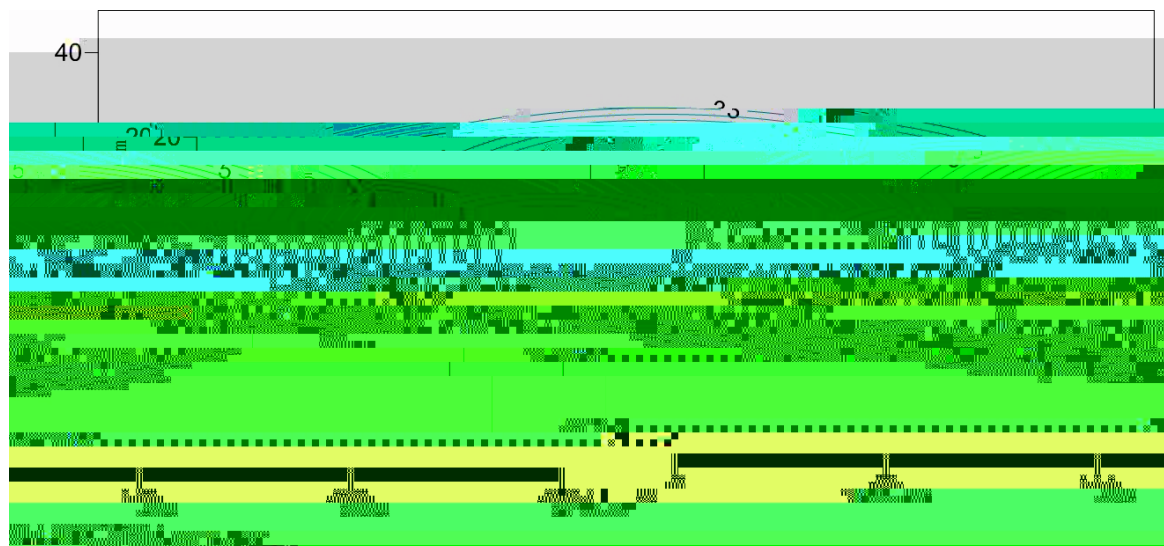
Ю GB/T14848-2017 7

3mg/LIII

3.5kmIII

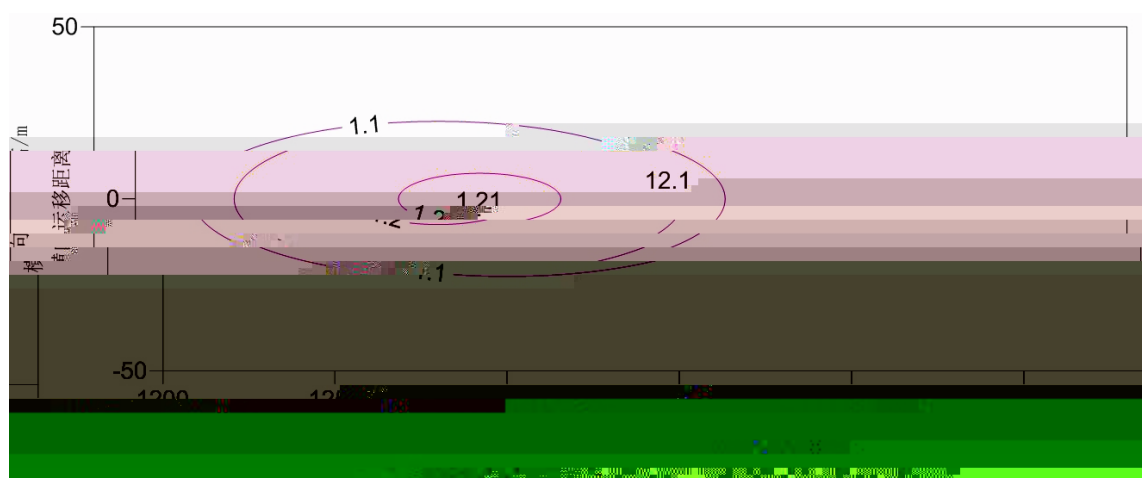
5-18

7-19III



5-18 COD

100d



5-19 COD

1000d

III

5.4.5

5.4.5.1

5-23III

5-23

1#			1	1
2#				2
3#				3

2L

4

1

 $\hat{y}$

III

 $\ddot{Y}$

III

 $\acute{Z}$

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4

III

III

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 $\hat{y}$

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Ю HJ/T164-2004

III

 $\ddot{Y}$

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	ч	ч ч ш
		ш ш

						III			
2									
					III				
3								III	
5.4.6									
5.4.6.1									
1 Ч	Э		↓		Ю	HJ 610	2016		
'n								III	
2 Ч		20km ²	Э			↓	Ю		
									III
3 Ч	Э		↓		Ю	HJ610-2016			
						6			III
4 Ч							Э		Ю
(GB/T14848-2017) η		III							
			Ч					III	
5 Ч									
		III				Ч		Ч	
					Э			Ю	GB/T14848-2017
					III				
6 Ч						Ч			
	III								
5.4.6.2									
1 Ч									
			III						
2 Ч				Ч				III	

	80									
	80									

$$\hat{y} = \frac{L_A(r) - L_A(r_0)}{A_{div}}$$

$$L(r) = L(r_0) - 20 \lg(r/r_0)$$

$$L_A(r) = L_A(r_0) - 20 \lg(r/r_0) - 11$$

$$L_A(r) = L_A(r_0) - 20 \lg(r/r_0) - 8$$

$$2 \Psi = \frac{A}{L_{Ai}}$$

$$\frac{L_{eq} \downarrow}{n \downarrow} = \frac{T \downarrow}{L} = \frac{A}{III}$$

$$\frac{C_{adna}/A}{DataKustik} = \frac{III}{IS09613 \Psi RLS - 90 \Psi Schall103}$$

$$\frac{III C_{adna}/A}{\Theta} = \frac{Ю}{HJ2.4-2009}$$

$$III$$

$$5.5.4$$

$$III$$

$$5-26 III$$

$$5-26 \quad dB(A)$$

	37.5	65		37.5	55	
	40.2	65		40.2	55	
	36	65		36	55	

	34.6	65		34.6	55	
				ҫ	Ә	

Ю GB12348-2008 3

III

		ყ
		$\hat{y}$ $\ddot{Y}$ $\acute{Z}$ $\acute{z}$ $\dot{Z}$ $\dot{z}$ $\check{Z}$ $\check{z}$

5.6.2.2

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III

5.6.2.3

1

640m²III

III

Э Ю GB18597-2001

Э Ю HJ2025-2012

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(GB15562.2-1995)

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2016 III

5.6.3

III

14

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$$\left(\begin{array}{c} \Psi \end{array} \right)$$

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III

34

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III

5.7.2

14

III

4

III

24

4

III

34

4

4

4

4

III

4

III

44

4

4

4

4

III

III

III

III