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8.3	.....	65
8.4	.....	66
8.5	.....	67
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# 1

“ ”

“ ”



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5				32	2014	12	19
6							
7					2017		
8							
2015	4						
9				2016	8	1	
10				2015			
2015	5						
11							591
12						2009	130
13						2010	105
14							
		2018	8				
<b>2</b>							
1				2015	1		2019
2					2011	1	
3					2009	8	
4					2010		
5					2006-2020		2006 4 4
6							VOCs
2018-2020					2018	6	
7						2011	
8				“ ”		2016	51
9							
2017	280						
10							
2017	80						



11		
	2015	99
12		
	2018	33
13		
	2018	44
14		2020
8	17	
<b>3</b>		
1		GB 15603-1995
2		GB30077-2013
3		(GB18218 2018)
4		HJ 169-2018
5		
2016	74	
6		



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3-2

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### 3.1.2

3-3

4		
5		
6		
7		

2

1

“ ”

GB/T18920-2002

COD

GB/T18920-2002

DB44/26-2001

3-5

3-5

(mg/L)

	COD <sub>cr</sub>	BOD <sub>5</sub>	NH <sub>3</sub> -N	SS	
GB/T18920-2002	/	20	20	1000	/
DB44/26-2001	90	/	/	/	10

2

GB4915/-2013

GB30485-2013

3-6

3-7

3-6

GB4915/-2013

		mg/m <sup>3</sup>		
				mg/m <sup>3</sup>
		10		0.5

3-7

GB30485-2013

mg/m<sup>3</sup>

1

10

2

1.0

3

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4

(GB12348-2008)

2

2

3-9

**3-9**

**(GB12348-2008)**

**dB(A)**

2		60	50
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### 3.3

3-11

				t/a		
1		90		1700000	50000	
2				150000	8000	
3				50000	3000	
4				40000	2000	
5				80000	3000	
6				72000	3000	
7				196200	5000	
8		2 50m <sup>3</sup>		3000	120	
9				100	30	
10		1 15m <sup>3</sup> 1 50m <sup>3</sup>		500	43.68	
11		500g/		0.5kg	1kg	
12		500g/		0.5kg	1.5kg	
13		500g/		0.5kg	2kg	
14		10g/		0.01kg	0.02kg	
15	K- B	10g/		0.01kg	0.02kg	
16		500g/		0.5kg	0.5kg	
17		500g/		0.5kg	1kg	
18		25g/		0.025kg	0.075kg	
19		500g/		4.25kg	8.5kg	
20		500g/		0.5kg	0.5kg	
21		500g/		70kg	57.5kg	
22		500g/		6kg	19.5kg	
23		500g/		10kg	15kg	
24		500g/		5kg	22.5kg	

---

			<b>t/a</b>	
25		500g/	28.5kg	6kg
26		500g/	77kg	92kg
27		500g/	6.5kg	14kg
28		2.5kg/	87.5kg	212.5kg
29		500g/	5kg	6kg
30		250g/	1.5kg	3kg
31		500g/	0.5kg	2.5kg
32	CMP	500g/	0.5kg	1.5kg

AKQ

IZK



				t/a		
53		25g/		0.25kg	0.5kg	
54		500g/		0.5kg	1kg	
55		500g/		0.5kg	0.5kg	
56		100g/		0.1kg	0.3kg	
57		500g/		3kg	6kg	

MSDS

3-12

[10% 35%] 82503  
 Ammonium hydroxide Ammonia water UN 2672  
 NH<sub>4</sub>OH 35.05 CAS 1336-21-6  
 / ( =1) 0.91 ( =1) /  
 n

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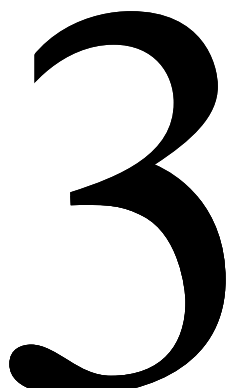
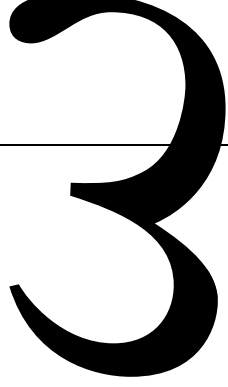

**3-13**

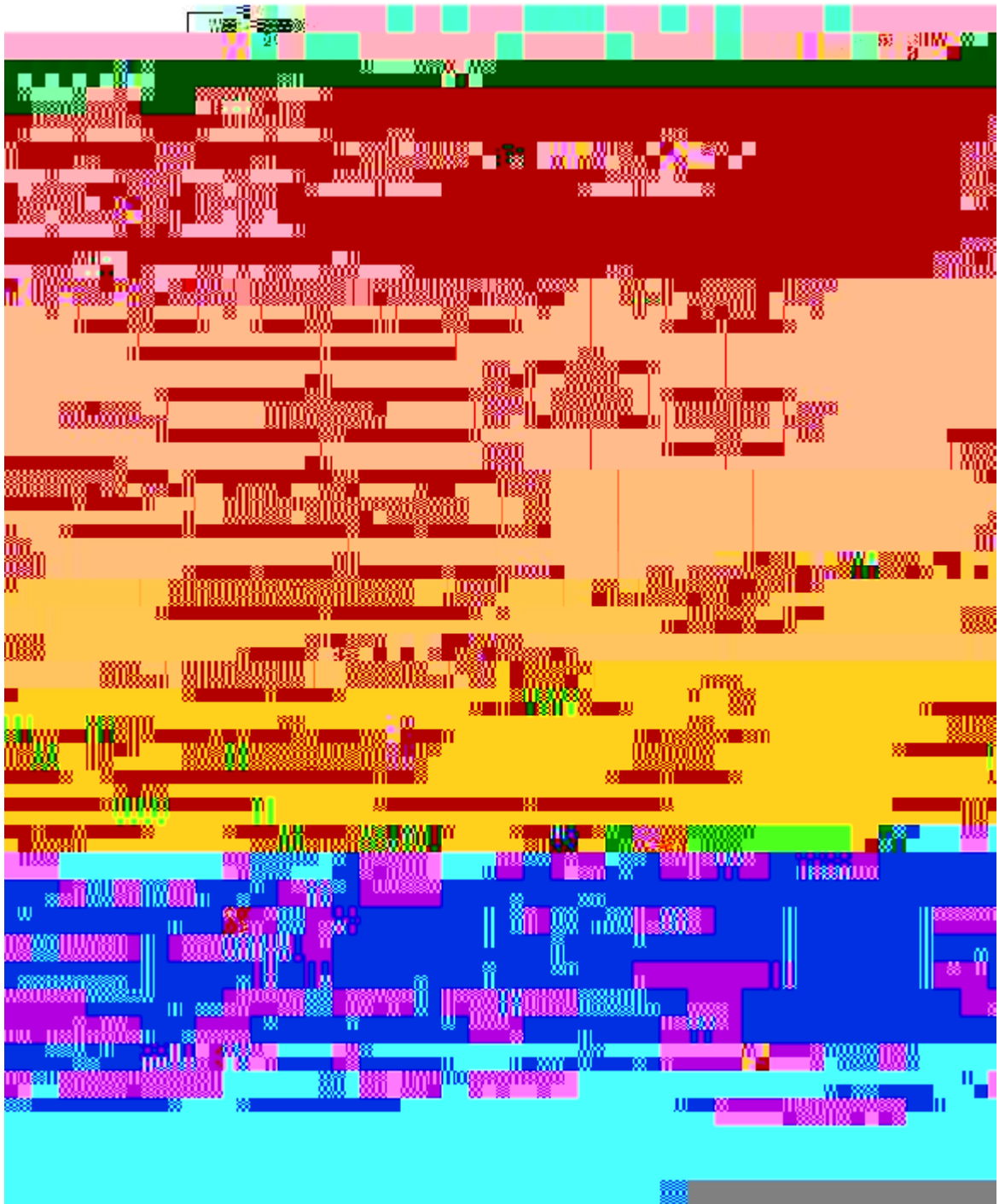
0                                      =1                      4  
282 338

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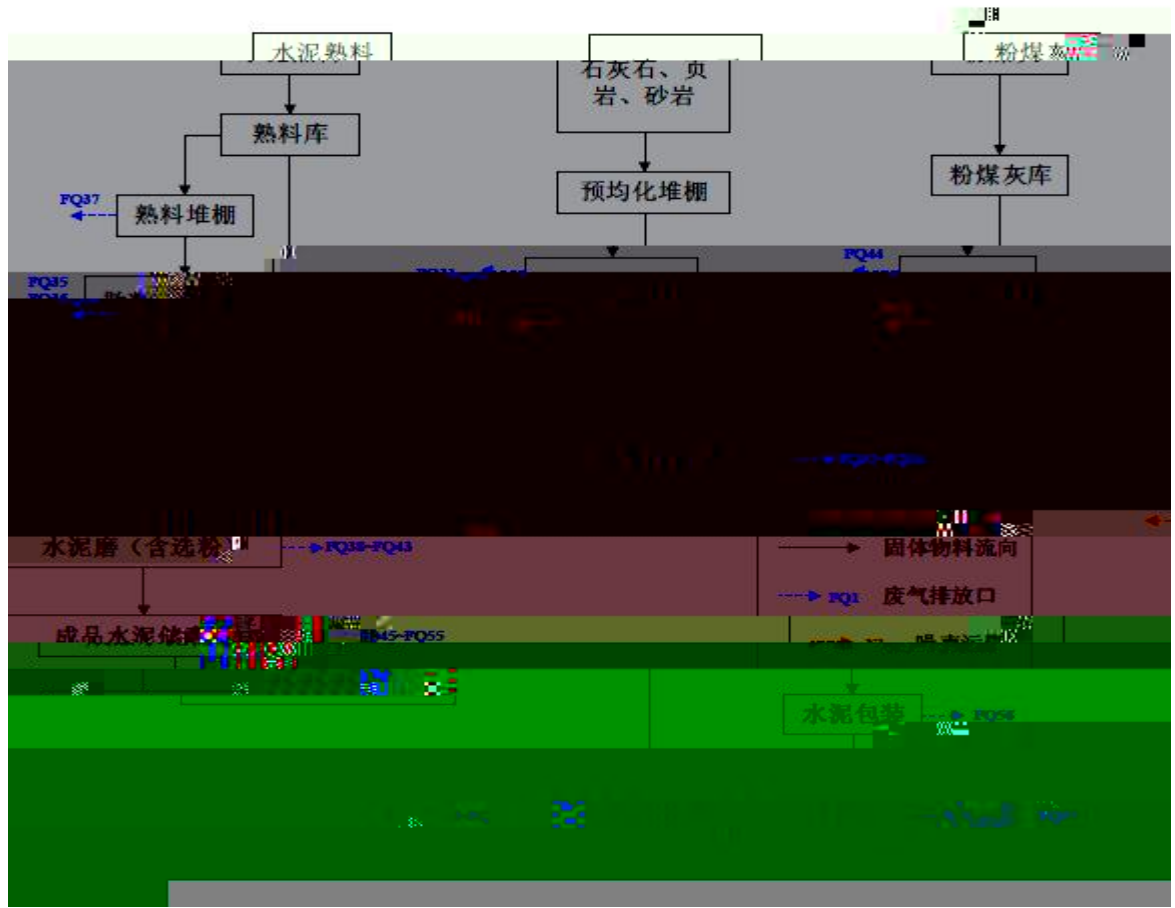
(GB18218 2018)

(HJ 941-2018)

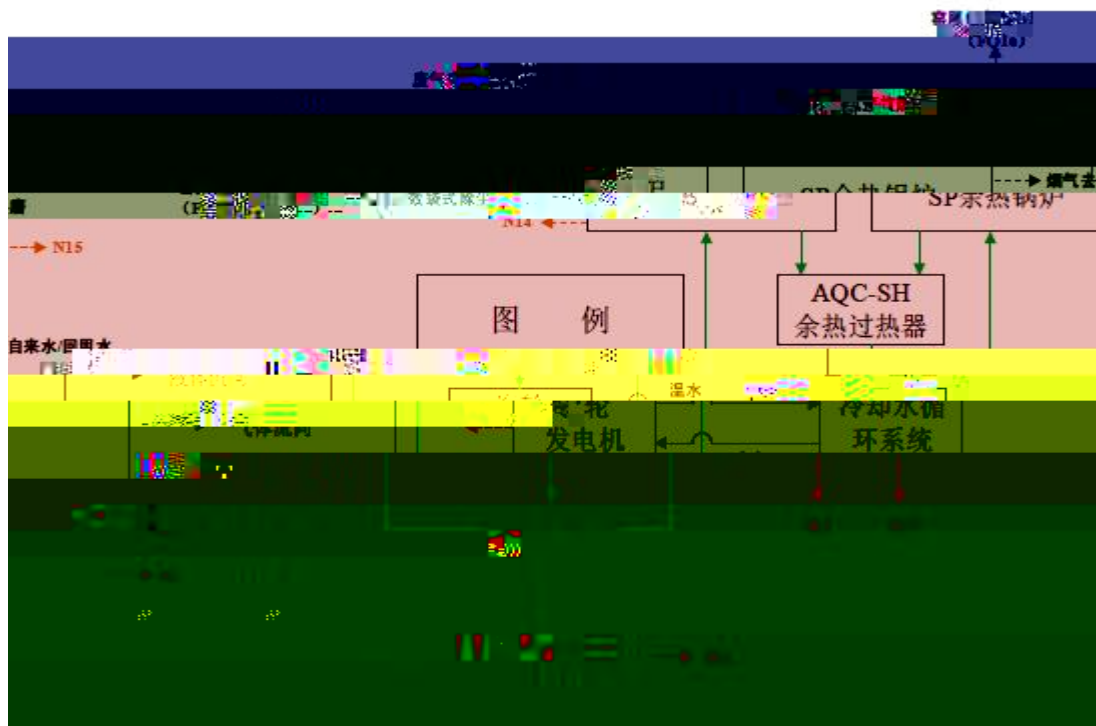




3-1



3-2



3-3

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### 3.4.2

#### 3-15

2NPC1818 I <sub>2</sub>	1
1000t/h	1
500t/h	1
DB350/14.25	1
QGC300/19	1
CLF180120-D-SD	2
Y5-2x47No24.5F	2
3.8×7.75+3.5m	1
MD1500AY	1
PP128-2x7	1
1700SI BB50	1
3050 DI BB50	1
LCMG- -522-4x8	1
ð	
NST-I	1
4.8x74m	1
4.2x36.5m	1
LCMG-II-647-2x10	1
Y4-2×73 22.5F	1
150t/h	1

0 5m

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	120t/h	1		
	200t/h	1		
	120t/h	1		
	/	1		
AQC	/	1		
SP	/	1		



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### 3.4.3

#### 3.4.3.1

SNCR

“

”

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1

GB18597-2001

Ã  
\*ÃP J T „9\$6P\*9SP\*4E@

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1			
2			
3			
4			

A 4

3-17

0  
/  
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0  
/  
/  
0  
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/  
0  
/  
/

		2
2		1 2 3 4
3		1 2 0750-7821337 0750-7777878

### 3.7

#### 3.7.1

1

#### 3-19

1		--	5			18138039389	
2		LED ;3W	13			18138039389	



3.7.2

1

“ ”

3-21

			/		
				13872060887	
				18138039288	
				15007280339	
				18138039318	
				13657145451	
				13630440762	
				18675092497	
				18138039361	
				17796117962	
					13326822688
					15072936981
					13822480179
					18138039266
					18138039286
					18138039344
					18138039355
					18138039387
					13380971607
					18138039328
					13558882912
					18138039298
					13422795204
				18138039388	
				18138039373	

---

			/	
				13874662808
				15271222611

2





---

4-3

	/	/	/	/
	26	1	2	6
	26	1	5	1
	43	/	9	/
	28	28	/	7
	4	1	1	4
	5	/	/	/
	4	/	1	/

---

## 4.1.9





1

HJ/T169

$\frac{1}{2} + 2gh$

$Q_0$  - kg/s


$C_d$  - 0.6-0.64

$A$  - m<sup>2</sup> 0.0000785n<sup>2</sup>

$\rho$  - kg/m<sup>3</sup> 855kg/m<sup>3</sup>

$p$  - Pa 101325pa

$p_0$  - Pa 101325pa

$g$  - 9.8m/s<sup>2</sup> 

$h$  - 0.5n<sup>2</sup>

0.14kg/s 30 252kg  
43.68t

ž

~~... (REDACTED) ...~~ È

1 ž

CO



			<b>m<sup>3</sup></b>	
6		V	474.75	—

**4-4**

			<b>m<sup>3</sup></b>	
1		V <sub>1</sub>	50	120m <sup>2</sup> 50m <sup>3</sup>
2		V <sub>2</sub>	216	GB50974-2014 15L2 ,

0

1

2

[1]

0.14kg/s

43.68t

[2]

1.22kg/s

120t

[3]

2kg/s

14t

ө

о



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2

3

4

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—  
— Pa  
— g/mol  
— 8.314 J/mol•  
0 — K 298 K  
— m/s 1.5 m/s  
— m

6.2m

120m<sup>2</sup>

**4-6**

A B

0.20

3.846×10<sup>-</sup>

液体表		环境			液池		稳定度		
名称	压力	量	温度	风速	池面积	等效半径	中性 (D)	稳定 (F)	质量蒸发速率 kg/s
塔	Pa	g/m <sup>3</sup>							

20%      D      F

0.38kg/s      0.46kg/s

1240.2kg      820 kg/m<sup>3</sup>      120m<sup>2</sup>

0.012m

HJ/T169-2004



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#### 4.4.4

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# 5

## 5.1

### 5.1.1

1

2

3

### 5.1.2

1

2

3

### 5.1.3

1

7

2-3

“

---

” “





4



	(		
	);4kg		
12	SN-65	2	18138039389
13	0.05mm*5 0m	500	18138039389
14	--	1	13422795204
15	--	1	13422795204
16	/	1038 m <sup>3</sup>	
17		2	
18		2	
19		6	
20		3	
21		1	
22		200	
23		2	
24		2	
25		1	
26		1	
27		2	

---

---

/

---

13657145451

13630440762

18675092497

18138039361

17796117962

13326822688

1507293698

13822480179

138039266

38039286

138039344

18138039355

18138039387

13380971607

18138039328

13558882912

18138039298

13422795204

18138039388

18138039373

0  
13874662808

15271222611

**Y**

**P**





---

**6**

5-6

**6-1**

3

# 7

Q  
E

M



7-1

## 7.1

### 7.1.1

Q

A

---

NH<sub>3</sub>-N

2000mg/L

COD<sub>Cr</sub>

10000mg/L

“ ”

Ä

CXW#âm WLy€ \$ C6€ T @ñP TR” Ä







7-5

1 E1	5 1000		5 5	500
2 E2	5	500	5 1000	500
3 E3	5		1 500	500
	5km		5	

### 7.1.5

1 Q 1 “ - Q0 ”  
 2 Q 1 “ - Q  
 -M -E ”  
 Q 1 -  
 Q2-M1-E2

### 7.2

#### 7.2.1 Q

A

“  
 ”  
 Q  
 1  
 Q  
 2 1



W1 W2 ..... Wn— t W1 W2 .....  
 Wn— t





		8	
	1 2	0	0
	2	8	
		0	
	1 2 3	6	0
	1 2 3 4	12	
	1 2	0	0
		10	
3		8	
		6	0
		4	
		0	
		/	16
GB50483 GB50160 GB50747 GB50351 SH3015			

3

7-9

4

7-9

M 25	M1
25 M 45	M2
45 M 65	M3

M 65	M4
------	----

7-2

7-8

25<M=38<45

M1

**7.2.3**

**E**

E1 E2 E3

7-10

1

2

3

1

2

3

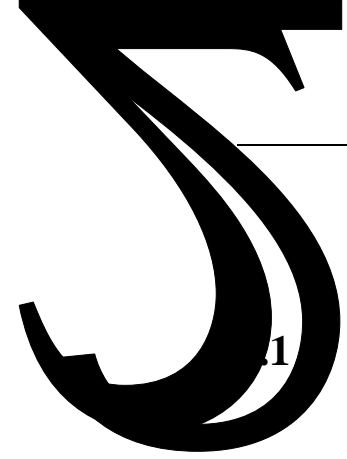


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3 E2

M2  
7-11

Q2



8

1

7.1

7.2

“ - Q2-M1-E2 ”

“ - Q2-M2-E2 ”

8.2

8.3

“

[ +

]”

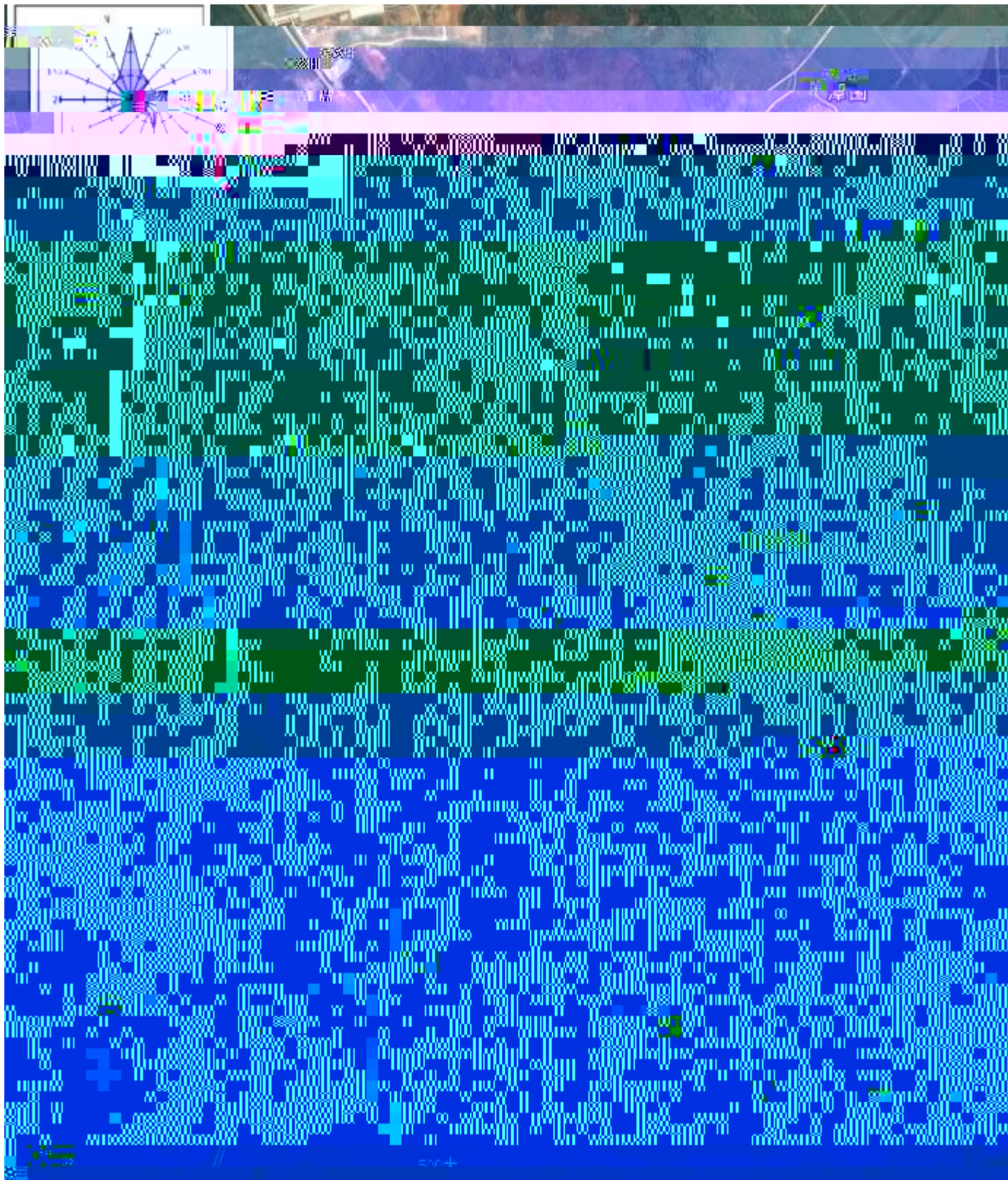
[ - Q1-M3-E1 + - Q2-M2-E2 ]

“ - ~ m’

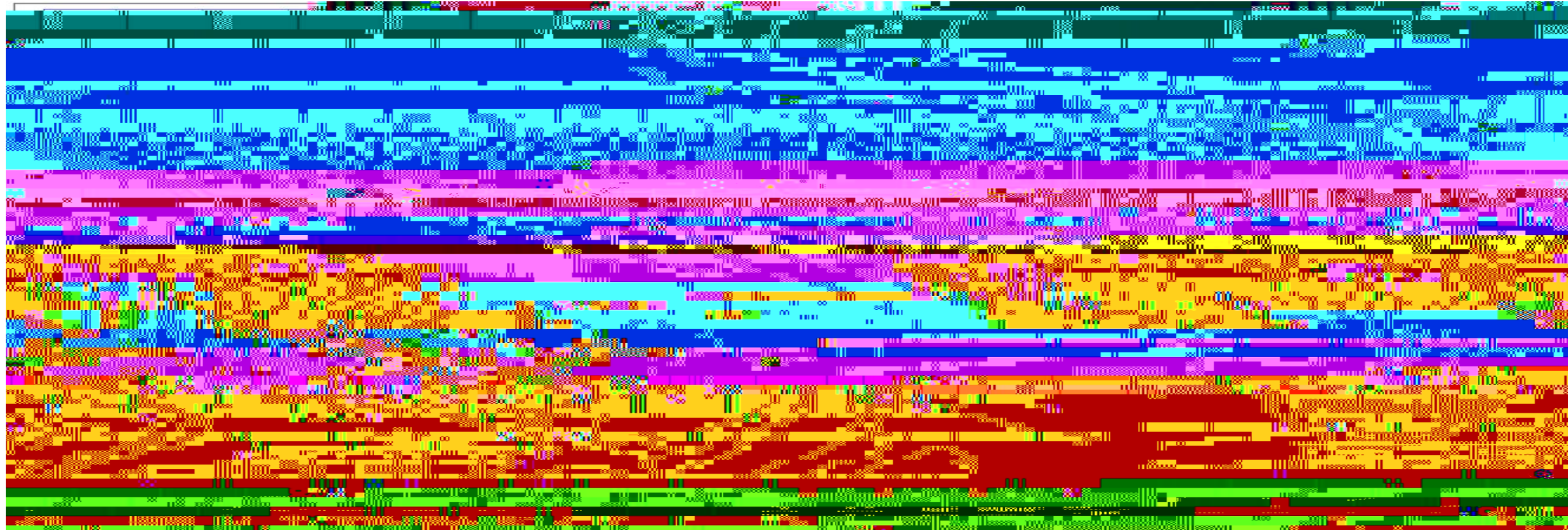








8.5



8.6

