



山东朗格环保工程有限公司  
Shandong Langge Environmental Protection Engineering Co., Ltd.

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1.1

1.1.1

1 2015 1 1

2 2016 9 1 2018 12 29

3 2018 10 26

4 2017 6 27 2018 1

1

5 1996 10 2021 12

24

6 2020 4 29

7 2019 1 1

8 2011 3 1

9 2012 7 1

10 2018 10 26

11 2018 10 26

12 2020 1 1

13 [2013]37 2013 9

10

14 645 2013 12 7

15 31 2015 1 1

16 [2015]4 <

> 2015 1 8

17 [2015]17 2015

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|      |    |                                                   |      |        |
|------|----|---------------------------------------------------|------|--------|
| 4    | 2  |                                                   |      |        |
|      | 18 | 34                                                | 2015 | 6 5    |
|      | 19 | [2015]162                                         |      | 2015   |
| 12   | 10 |                                                   |      |        |
|      | 20 | [2016]45                                          |      |        |
|      |    | 2016                                              | 4    | 15     |
|      | 21 | [2016]31                                          |      |        |
| 2016 | 5  | 28                                                |      |        |
|      | 22 | [2016]150                                         |      |        |
|      |    | 2016                                              | 10   | 26     |
|      | 23 | [2016]81                                          |      |        |
|      |    | 2016                                              | 11   | 10     |
|      | 24 | 42                                                | 2016 | 12 31  |
|      | 25 |                                                   |      |        |
|      |    | 2017                                              | 2    | 7      |
|      | 26 | 682                                               | 2017 | 10 1   |
|      | 27 | [2017]84                                          |      |        |
|      |    | 2017                                              | 11   | 14     |
|      | 28 | 《关于京津冀大气污染传输通道城市执行大气污染物特别排放限值的公告》（环保部公告2018年第9号）； |      |        |
|      | 29 | [2018]                                            | 48   | 2018 1 |
| 10   |    |                                                   |      |        |
|      | 30 | [2018]11                                          |      |        |
|      |    | 2018                                              | 1    | 25     |
|      | 31 | [2018]266                                         |      |        |
|      |    |                                                   | 2018 | 5 10   |
|      | 32 | [2018]17                                          |      |        |
|      |    | 2018                                              | 6    | 16     |

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|       |                                                    |      |      |      |
|-------|----------------------------------------------------|------|------|------|
| 33    | 4                                                  | 2019 | 1    | 1    |
| 34    |                                                    | 2019 | 4    |      |
| 2018  | 2019                                               | 1    | 23   |      |
| 35    | 2019                                               | 8    | <    |      |
|       | 2019                                               | >    | 2019 | 2 27 |
| 36    | [2019]17                                           | <    |      | >    |
|       | 2019                                               | 3    | 1    |      |
| 37    | [2019]25                                           |      |      | 2019 |
| 3 28  |                                                    |      |      |      |
| 38    | [2019]56                                           | <    |      | >    |
| 2019  | 7                                                  | 9    |      |      |
| 39    |                                                    | 2019 | 28   |      |
|       | 2019                                               | 7    | 23   |      |
| 40    | 环办固体函[2019]719号《关于开展危险废物专项治理工作的通知》<br>(2019年9月2日)； |      |      |      |
| 41    | [2019]92                                           |      |      |      |
|       |                                                    | 2019 | 10   | 15   |
| 42    | 29                                                 | 2019 |      | 2019 |
| 10 30 |                                                    |      |      |      |
| 43    | [2020]463                                          | <    |      |      |
| 2021  | 2023                                               | ><   | 2021 | >    |
|       | 2020                                               | 9    | 1    |      |
| 44    | 环办土壤[2020]23号《关于加强土壤污染防治项目管理的通知》(2020<br>年9月8日)；   |      |      |      |
| 45    | 16                                                 |      |      | 2021 |
| 1 1   |                                                    |      |      |      |
| 46    | [2020]688                                          | <    |      |      |
|       | >                                                  | 2020 | 12   | 13   |
| 47    | 736                                                |      | 2021 | 1 24 |

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|            |            |            |        |
|------------|------------|------------|--------|
| 48         | [2021]969  |            |        |
|            | 2021 7 1   |            |        |
| 49         | [2021]65   |            |        |
|            | 2021 8 4   |            |        |
| 50         | [2021]635  |            |        |
|            |            | 2021 8 16  |        |
| 51         | [2021]20   | <          |        |
|            | >          | 2021 9 1   |        |
| 52         | [2021]104  | <2021-2022 |        |
|            | >          | 2021 10 28 |        |
| 53         | [2021]1524 |            | <      |
|            | >          | 2021 10 29 |        |
| 54         | [2021]495  | <          | 2021 > |
|            | 2021 11 2  |            |        |
| 55         |            |            | 2021   |
| 11 2       |            |            |        |
| 56         | [2021]108  |            |        |
|            | 2021 11 19 |            |        |
| 57         | 748        | 2021 12 1  |        |
| 58         |            | 23         |        |
| 2021 11 30 |            |            |        |
| 59         | [2021]26   |            |        |
| 2021 12 21 |            |            |        |
| 60         | [2021]120  |            |        |
|            | 2021 12 29 |            |        |
| 61         | 2021 82    | <          |        |
|            | >          | 2021 12 30 |        |
| 62         | [2022]17   |            | 2022   |
| 3 3        |            |            |        |
| 63         | [2022]26   | <          |        |

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> 2022 4 1

## 1.1.2

|      |           |      |    |    |          |
|------|-----------|------|----|----|----------|
| 1    | [2015]249 | 2015 | 12 | 10 |          |
| 2    | [2015]259 | 2015 | 12 | 18 |          |
| 3    | [2015]31  | 2015 | 12 | 31 |          |
| 4    | [2017]176 |      |    |    | <        |
|      | 2016-2020 | 2016 | 9  | 28 |          |
| 5    | [2016]141 |      |    |    |          |
|      | 2016      | 9    | 30 |    |          |
| 6    |           | 2016 | 11 | 1  |          |
| 7    | [2016]37  |      |    |    |          |
|      | 2016      | 12   | 31 |    |          |
| 8    |           | 2017 | 5  | 1  |          |
| 9    | [2017]561 |      |    |    |          |
|      | 2017      | 9    | 19 |    |          |
| 10   |           | 67   |    |    |          |
|      | 2018      | 1    | 23 |    |          |
| 11   |           | 47   |    |    | <        |
| >    |           | 2018 | 1  | 23 |          |
| 12   |           | 105  |    |    |          |
|      |           | 2018 | 1  | 23 |          |
| 13   | <         |      |    |    | > 2018 1 |
| 23   |           |      |    |    |          |
| 14   |           | 107  |    |    |          |
| 2018 | 1         | 23   |    |    |          |
| 15   |           | 227  |    |    | 2018     |
| 1    | 24        |      |    |    |          |

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|    |      |           |           |      |      |    |    |         |
|----|------|-----------|-----------|------|------|----|----|---------|
|    | 16   |           |           | 248  |      |    |    | 2012    |
| 1  | 4    | 2018      | 1         | 24   |      |    |    |         |
|    | 17   |           |           | 311  |      |    |    | <       |
|    | >    | 33        |           |      | 2018 | 1  | 24 |         |
|    | 18   | [2018]90  |           |      |      |    |    |         |
|    |      | 2018      | 4         | 24   |      |    |    |         |
|    | 19   | [2018]166 |           |      |      |    |    |         |
|    |      |           | 2018-2020 |      | 2018 | 8  | 2  |         |
|    | 20   | [2018]190 |           |      |      |    |    | <       |
|    |      |           |           | >    | 2018 | 8  | 6  |         |
|    | 21   | [2018]5   |           |      |      |    |    | <       |
|    |      |           |           | >    | 2018 | 11 | 8  |         |
|    | 22   |           |           | 99   |      |    |    | 2018 11 |
| 30 |      |           |           |      |      |    |    | 2019 1  |
| 1  |      |           |           |      |      |    |    |         |
|    | 23   | [2019]29  |           |      |      |    |    |         |
|    |      |           |           |      | 2019 | 2  | 8  |         |
|    | 24   | [2019]58  |           |      |      |    |    |         |
|    |      |           |           | 2019 | 3    | 24 |    |         |
|    | 25   | [2019]112 |           |      |      |    |    |         |
|    | 2019 | 5         | 8         |      |      |    |    |         |
|    | 26   | [2019]113 |           |      |      |    |    |         |
|    |      |           | 2019      | 5    | 28   |    |    |         |
|    | 27   | [2019]126 |           |      |      |    |    |         |
|    | 2019 | 8         | 2         |      |      |    |    |         |
|    | 28   | [2019]132 |           |      |      |    |    |         |
|    |      |           |           |      | 2019 | 9  | 2  |         |
|    | 29   | [2019]66  |           |      |      |    |    |         |
|    |      |           | 2019      | 9    | 20   |    |    |         |
|    | 30   | [2019]26  |           |      |      |    |    |         |

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|      |      |          |      |    |    |
|------|------|----------|------|----|----|
| 2019 | 10   | 16       |      |    |    |
| 31   |      |          |      | 83 |    |
| 2020 | 1    | 1        |      |    |    |
| 32   |      | [2020]5  |      |    |    |
|      |      |          | 2020 | 1  | 16 |
| 33   |      | [2020]6  |      |    |    |
|      | 2020 | 4        | 7    |    |    |
| 34   |      | [2020]50 |      |    |    |
|      |      | 2020     | 4    | 20 |    |
| 35   |      | [2020]83 |      |    |    |
|      |      | 2020     | 6    | 19 |    |
| 36   |      | [2020]29 |      |    |    |
|      |      | 2020     | 6    | 22 |    |
| 37   |      | [2020]48 |      |    |    |
|      |      | 2020     | 11   | 6  |    |
| 38   |      |          | 2020 | 11 | 27 |
| 39   |      |          |      |    |    |
|      |      | 2020     | 11   | 27 |    |
| 40   |      | [2021]58 |      |    |    |



| 2021-2025 |                        |   |           |  |
|-----------|------------------------|---|-----------|--|
| 2021-2025 |                        |   | 2021-2025 |  |
|           | 2021                   | 8 | 22        |  |
| 46        | [2021]12               |   |           |  |
|           | 2021 8 22              |   |           |  |
| 47        | [2021]3                |   |           |  |
|           | 2021-2023 > 2021 10 26 |   |           |  |
| 48        | [2021]8                |   |           |  |
|           | > 2021 11 13           |   |           |  |
| 49        | [2021]249              |   |           |  |
|           | 2021 11 19             |   |           |  |
| 50        | [2021]9 2021-2022      |   |           |  |
|           | 2021 11 25             |   |           |  |
| 51        | [2022]1                |   |           |  |
|           | 2022 4 3               |   |           |  |
| 52        | 11                     |   |           |  |
| 2018.1.2  |                        |   |           |  |
| 53        | 16                     |   |           |  |
| 2018.8.30 |                        |   |           |  |
| 54        | [2019]6                |   |           |  |
|           | >                      |   |           |  |
| 55        | [2019]7                |   |           |  |
|           | >                      |   |           |  |
| 56        | [2019]19               |   |           |  |
|           | >                      |   |           |  |
| 57        | [2019]39               |   |           |  |
|           | <                      |   |           |  |
| >         | 2019                   | 7 | 17        |  |
| 58        | [2020]3                |   |           |  |
|           | 2020 01 17             |   |           |  |
| 59        | [2020]8                |   |           |  |

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|       |          |            |       |
|-------|----------|------------|-------|
| 2020  | 2020     | 4          | 10    |
| 60    | [2020]17 |            |       |
| 61    | [2020]49 |            |       |
|       |          | 2020       | 10 29 |
| 62    | [2020]65 |            |       |
| 63    | [2021]6  |            |       |
|       |          | 2021       | 05 21 |
| 64    | [2022]2  |            |       |
|       |          | 2022       | 01 21 |
| 65    | [2018]62 |            |       |
|       |          | 2019.12.25 |       |
| 66    | [2019]30 |            |       |
|       |          | 2019.10.18 |       |
| 67    | [2019]29 |            |       |
|       |          | 2019.10.18 |       |
| 68    | [2021]34 |            |       |
|       |          | 2020.11.11 |       |
| 69    | [2021]3  |            |       |
|       |          | (2021.4.9) |       |
| 1.1.3 |          |            |       |
| 1     |          | HJ2.1-2016 |       |
| 2     |          | HJ2.2-2018 |       |
| 3     |          | HJ2.3-2018 |       |
| 4     |          | HJ610-2016 |       |
| 5     |          | HJ2.4-2009 |       |
| 6     |          | HJ964-2018 |       |
| 7     |          | HJ169-2018 |       |
| 8     |          | HJ19-2011  |       |

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|       |   |      |             |            |
|-------|---|------|-------------|------------|
| 9     |   |      | HJ2000-2010 |            |
| 10    |   |      | HJ2015-2012 |            |
| 11    |   |      | HJ2035-2013 |            |
| 12    |   |      | HJ2034-2013 |            |
| 13    |   |      | HJ589-2010  |            |
| 14    |   |      | HJ2042-2014 |            |
| 15    |   |      | HJ 819-2017 |            |
| 16    |   |      | HJ942-2018  |            |
| 17    |   | 2021 |             |            |
| 18    |   |      | 2015.11     |            |
| 19    |   |      | 2016.9.26   |            |
| 20    |   |      |             |            |
| 21    |   |      | 2018-2035   |            |
| 1.1.4 |   |      |             |            |
| 1     |   | 1    |             |            |
| 2     |   | 2    |             |            |
| 3     |   | 3    |             |            |
| 4     |   | 4    |             |            |
| 5     |   |      |             | 4.5        |
| 6     | / |      |             | [2007]21   |
| 5     |   |      |             |            |
| 6     |   |      |             | 45000t/a 6 |
| /     |   |      | [2010]12    | 6          |
| 7     |   |      |             | 45000t/a 6 |
| /     |   |      |             | 7          |
| 8     |   |      |             |            |
|       |   |      |             | [2014]49   |
| 8     |   |      |             |            |
| 9     |   |      |             |            |
|       |   |      |             | [2018]31   |

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|    |    |           |          |          |
|----|----|-----------|----------|----------|
| 9  |    |           |          |          |
| 10 |    |           |          |          |
|    |    | [2018]96  |          | 10       |
| 11 |    |           |          |          |
|    |    | [2018]207 |          | 11       |
| 12 |    |           |          |          |
|    |    | [2019]7   | 12       |          |
| 13 |    |           |          |          |
|    |    |           | 13       |          |
| 14 |    |           |          | 2 130t/h |
|    |    | [2002]85  |          | 14       |
| 15 |    |           | 5        |          |
|    |    | 15        |          |          |
| 16 |    |           | 5        |          |
|    | 16 |           |          |          |
| 17 |    |           |          | 2 24MW   |
|    |    |           | 17       |          |
| 18 |    |           |          | 2 24MW   |
|    |    | 18        |          |          |
| 19 |    |           |          |          |
|    |    |           | 19       |          |
| 20 |    |           |          |          |
|    |    |           | 20       |          |
| 21 |    |           | 1-2      |          |
|    |    | 21        |          |          |
| 22 |    |           |          |          |
|    |    | 22        |          |          |
| 23 |    |           |          |          |
|    | 23 |           |          |          |
| 24 |    |           | 3 130t/h |          |

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24

25      5   130t/h

25

26      5   130t/h

26

27

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1.2

1.2.1

1.2.2

## 1.2.3

## 1.3

## 1.3.1

## 1.3.1.1

## 1.3-1

## 1.3-1

|  |  |            |
|--|--|------------|
|  |  |            |
|  |  |            |
|  |  | SS COD BOD |
|  |  |            |
|  |  |            |

## 1.3.1.2

## 1.3-2

## 1.3-2

|  |                                         |                                       |                  |  |
|--|-----------------------------------------|---------------------------------------|------------------|--|
|  |                                         |                                       |                  |  |
|  |                                         |                                       |                  |  |
|  | VOCs<br>SO <sub>2</sub> NO <sub>x</sub> | COD <sub>Cr</sub><br>BOD <sub>5</sub> | L <sub>Aeq</sub> |  |
|  |                                         |                                       |                  |  |
|  |                                         |                                       |                  |  |
|  |                                         |                                       |                  |  |
|  |                                         |                                       |                  |  |
|  |                                         |                                       |                  |  |
|  |                                         |                                       |                  |  |

|  |  |  |  |  |
|--|--|--|--|--|
|  |  |  |  |  |
|--|--|--|--|--|

## 1.3.2

## 1.3-3

## 1.3-3

|  | SO <sub>2</sub> NO <sub>2</sub> PM <sub>10</sub> PM <sub>2.5</sub> CO O <sub>3</sub><br>TSP                                             | SO <sub>2</sub> NO <sub>x</sub><br>TSP PM <sub>10</sub> |
|--|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
|  | pH SS COD <sub>Cr</sub> BOD <sub>5</sub>                                                                                                | --                                                      |
|  | pH<br><br>K <sup>+</sup> +Na <sup>+</sup> Ca <sup>2+</sup> Mg <sup>2+</sup> CO <sub>3</sub> <sup>2-</sup> HCO <sub>3</sub> <sup>-</sup> | --                                                      |
|  | Leq A                                                                                                                                   | Leq A                                                   |
|  | pH<br>1,1- 1,1- 1,2- 1,1,1,2- 1,1,2- 1,2,3-<br>1,2- 1,1,1- 1,1,2- 1,2- 1,4-<br>[b] [k] 2- [a] [a]<br>[a h] [1,2,3-cd]                   | --                                                      |

## 1.4

## 1.4.1

1.4-1~ 1.4-7

## 1.4-1

|  |                |     |
|--|----------------|-----|
|  |                |     |
|  | GB3095-2012    |     |
|  | HJ2.2-2018     | D   |
|  | GB3838-2002    |     |
|  | GB5084-2021    | 1   |
|  | GB/T14848-2017 |     |
|  | GB3096-2008    | 2 3 |
|  | GB36600-2018   | 1 2 |
|  | GB15618-2018   | 1   |

1.4-2

mg/m<sup>3</sup>



|  |           |           |          |          |          |          |
|--|-----------|-----------|----------|----------|----------|----------|
|  | 10mg/L    | 0.3mg/L   | 1.0mg/L  | 2.0mg/L  | 0.02mg/L | 0.1mg/L  |
|  |           |           |          |          |          |          |
|  | 0.001mg/L | 0.005mg/L | 0.05mg/L | 0.05mg/L | 10mg/L   | 250mg/L  |
|  |           |           |          |          |          |          |
|  | 1.5mg/L   | 0.2mg/L   | 250mg/L  | 0.01mg/L | 0.5mg/L  | 20000 /L |
|  |           |           |          |          |          |          |
|  | 0.5mg/L   | 0.9mg/L   | 0.01mg/L | 0.7mg/L  | 0.5mg/L  |          |

## 1.4-4

| mg/L | pH      | MPN/100mL        |                  |                               |                               | CFU/mL         |      |
|------|---------|------------------|------------------|-------------------------------|-------------------------------|----------------|------|
|      | pH      |                  |                  |                               |                               |                |      |
|      | 6.5~8.5 | 450              | 0.50             | 250                           | 250                           | 1.00           | 20.0 |
|      |         |                  |                  |                               |                               |                |      |
|      | 1000    | 3.0              | 1.0              | 0.02                          | 0.002                         | 3.0            | 100  |
|      |         |                  |                  |                               |                               |                |      |
|      | 0.005   | 0.1              | 0.3              | 0.01                          | 0.01                          | 0.001          | 0.05 |
|      |         |                  |                  |                               |                               |                |      |
|      | 0.05    | 0.20             | 1.00             | 1.00                          | 0.01                          | 0.7            | 0.5  |
|      |         | Ca <sup>2+</sup> | Mg <sup>2+</sup> | CO <sub>3</sub> <sup>2-</sup> | HCO <sub>3</sub> <sup>-</sup> | K <sup>+</sup> |      |
|      | 0.3     | --               | --               | --                            | --                            | --             | 200  |

## 1.4-5

## dB A

|   |    |    |
|---|----|----|
|   |    |    |
| 2 | 60 | 50 |
| 3 | 65 | 55 |

## 1.4-6

mg/kg

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|  |       |
|--|-------|
|  | 65    |
|  | 5.7   |
|  | 18000 |
|  | 800   |
|  | 38    |
|  | 900   |
|  |       |
|  | 2.8   |
|  | 0.9   |
|  | 37    |

1.4-8~ 1.4-13

1.4-8

|  |                      |                     |
|--|----------------------|---------------------|
|  |                      |                     |
|  | 6<br>DB37/801.6-2018 | 1<br>VOCs<br>2<br>3 |
|  | GB31572-2015         | 5                   |
|  | DB37/2376-2019       | 1                   |
|  | GB16297-1996         | 2                   |
|  | GB14554-93           | 1 2                 |
|  | [2019]39             | NO <sub>x</sub>     |
|  | GB/T31962-2015       | GB/T31962-2015 1A   |
|  | GB12523-2011         |                     |
|  | GB12348-2008         | 2                   |
|  | GB18599-2020         |                     |

|    |                 |    |    |      |                                                   |
|----|-----------------|----|----|------|---------------------------------------------------|
| 7  |                 | 50 | /  | /    | DB37/2376-2019<br>1<br>[2019]39<br>GB16297-1996 2 |
| 8  | SO <sub>2</sub> | 50 | /  | /    |                                                   |
| 9  |                 | 10 | 30 | 23   |                                                   |
|    |                 |    | 35 | 31   |                                                   |
|    |                 |    | 36 | 32.6 |                                                   |
|    |                 |    | 38 | 35.8 |                                                   |
| 10 |                 | /  | 27 | 20   | GB14554-93 2                                      |

## 1.4-9

|   |      | mg/m <sup>3</sup> |                        |
|---|------|-------------------|------------------------|
| 1 |      | 1.0               | GB16297-1996 2         |
| 2 |      | 0.2               |                        |
| 3 |      | 0.08              |                        |
| 4 | VOCs | 2.0               | 6<br>DB37/801.6-2018 3 |
| 5 |      | 0.1               |                        |
| 6 |      | 0.2               |                        |
| 7 |      | 0.2               |                        |
| 8 |      | 1.5               | GB14554-93             |

## 1.4-10

mg/L

|   |                  | GB/T31962-2015 1A |         |
|---|------------------|-------------------|---------|
| 1 | pH               | 6.5~9.5           | 6.5~9.5 |
| 2 | COD              | 500               | 300     |
| 3 | BOD <sub>5</sub> | 350               | 150     |
| 4 |                  | 45                | 20      |
| 5 | TN               | 70                |         |
| 6 |                  | --                | 1600    |
| 7 |                  | 5                 |         |

## 1.4-11

|  | dB A | dB A |                |
|--|------|------|----------------|
|  | 70   | 55   | GB12523-2011   |
|  | 65   | 55   | GB12348-2008 3 |

## 1.4-12

|  |                   |
|--|-------------------|
|  |                   |
|  | GB18599-2020      |
|  | GB18597-2001 2013 |

## 1.5

## 1.5-1

## 1.5-1

|  |  |                         |    |
|--|--|-------------------------|----|
|  |  |                         |    |
|  |  |                         | 一级 |
|  |  | Pmax=20.37% 10%         |    |
|  |  | 123.46m <sup>3</sup> /d | B  |
|  |  | 3                       |    |

|  |       |                  |
|--|-------|------------------|
|  | 500m  | 2000m            |
|  | 1000m | 6km <sup>2</sup> |
|  | 200m  |                  |
|  | 50m   |                  |

2

2.1

1993 5

18

2003 ISO9001

500 2016

360

19 146 2016 500 372  
500 60 100 38 50

1

2.1-1

2.1-1

## 2.1-1

“√”

|   |                    |         |                    |                                                                     |                       |         |         |                         |  |   |
|---|--------------------|---------|--------------------|---------------------------------------------------------------------|-----------------------|---------|---------|-------------------------|--|---|
|   |                    |         |                    |                                                                     |                       |         |         |                         |  |   |
| 1 |                    | 201700  | 8                  | 2005.10.17<br>[2005]2021                                            | 559<br>2005.7.6       | 2005.7  | 2006.6  | [2006]137<br>2006.10.27 |  | √ |
| 2 | 1 55               | 1000    | 55 1               |                                                                     | 2006.10.20            | 2006.5  | 2006.10 | 2006.12<br>[2006]02     |  | √ |
| 3 | 2×130t/h           | 4500    | 2×130t/h           | 2002.4.26<br>0200153                                                | [2002]85<br>2002.12   | 2003.1  | 2003.12 | [2008]38<br>2008 7 2    |  | √ |
| 4 | 5                  | 4850    | 2 1<br>50MW        | 2003.6.25<br>03006892                                               | [2004]26<br>2004.7.30 | 2004.8  | 2005.6  |                         |  |   |
| 5 | 2×130t/h<br>2×24MW | 9100    | 2×130t/h<br>2×24MW | 2×24MW<br>2003.4.15<br>0300339<br>2×130t/h<br>2002.6.17<br>[2002]02 | [2008]200             | 2002.6  | 2003.12 | [2010]141<br>2010 9     |  | √ |
| 6 |                    | 2970    | 1×130t/h           | —                                                                   | [2011]49              | 2013.5  | 2014.1  | [2014]21                |  | √ |
| 7 | 1-2                | 2849.26 | 1# 2#              | —                                                                   | [2015]16              | 2015.6  | 2016.7  | [2016]6<br>2016 12      |  | √ |
| 8 |                    | 3288.39 | 2#<br>1 4          | —                                                                   | [2016]46              | 2016.11 | 2016.7  |                         |  | √ |



|    |          |         |                         |                              |                         |         |         |        |   |    |
|----|----------|---------|-------------------------|------------------------------|-------------------------|---------|---------|--------|---|----|
|    |          |         | SNCR                    |                              |                         |         |         |        |   |    |
| 9  | 3×130t/h | 1300    | FOSS                    | ——                           | [2017]26<br>2017.5.26   | 2017.7  | 2017.7  | 2018 6 |   | √  |
| 10 | 5×130t/h | 2456.87 | 1# 2# 3# 4#<br>5×130t/h | 2018-371526-44-03-0<br>44625 | [2018]208<br>2018.12.21 | 2018.12 | 2018.12 | 2019 3 |   | √  |
| 11 |          | 170     | EPS 20                  | 2019-371526-50-03-0<br>02920 | [2019]24<br>2019.04.25  | 2019.4  | 2020.3  | 2020.4 | ■ | —— |

8 45000 □ 6 /  
f

|    |  |         |      |                              |                         |                |            |           |  |   |
|----|--|---------|------|------------------------------|-------------------------|----------------|------------|-----------|--|---|
| 11 |  | 1150.87 | 2850 |                              | 2011 7 6<br>[2022]18    | 2015.10        | 2017.12    | 2018 6    |  | √ |
| 12 |  | 956     | 50   |                              | [2018]96<br>2018 7 20   | 2018.07<br>.21 | 2019.02.20 | 2019 3 16 |  | √ |
| 13 |  | 650     | 80   | 2017-371526-30-03-0<br>72538 | [2018]207<br>2018 12 21 | 2018.12        | 2018.12    | 2019 3 16 |  | √ |
| 14 |  | 185     | 50   |                              | 20173715260000<br>0255  | -              |            |           |  |   |

|    |           |         |        |                              |                        |         |         |                       |  |           |
|----|-----------|---------|--------|------------------------------|------------------------|---------|---------|-----------------------|--|-----------|
|    |           |         |        | 68462                        |                        |         |         |                       |  |           |
| 20 |           | 350     | 5000   |                              | 2006.5.10              | 2006.5  | 2007.3  | 2007.9.8<br>[2007]21  |  | √         |
| 21 |           | 2582    | 1 /    |                              | 2006.3.13              | 2006.4  | 2007.8  | 2007.9.8<br>[2007]22  |  | √         |
| 22 | 15        | 74676   | 15     |                              | [2009]137              | 2010.2  | 2011.7  | 2019 8 27             |  | 2011<br>√ |
| 23 | 15        |         |        |                              | [2011]174              |         |         |                       |  | 2015<br>√ |
|    |           |         |        |                              | [2014]37               | 2014.8  |         |                       |  |           |
| 24 | 15<br>VOC | 5000    | VOC    |                              | [2019]56<br>2019.07.18 | 2019.08 | 2019.08 | 2019.08.27            |  | √         |
| 25 | 10        | 65491.6 | 10 130 |                              | 2012.6.27<br>[2012]10  | 2014.12 | 2016.2  | 2016.10.9<br>[2016]25 |  | √         |
| 26 | VOCs      | 3053.8  | VOCs   |                              | [2018]209              | 2018.12 | 2019.01 | 2019.03.16            |  | √         |
| 27 | 20 /      | 20000   | 20     | 2020-371526-41-03-0<br>01799 | [2020]3                |         |         |                       |  | —         |

|    |    |     |    |                              |           |  |  |   |
|----|----|-----|----|------------------------------|-----------|--|--|---|
| 28 | 20 | 987 | 20 | 2020-371526-41-03-1<br>35626 | [2020]212 |  |  | — |
|----|----|-----|----|------------------------------|-----------|--|--|---|

## 2.2

## 2.2.1

4.5

## 2.2-1

45000t/a      6      /

2.1-1

913715261682127528005U

913715261682127528001P

## 2.2.2

2.2-1

## 2.2-1

|                      |   |                      |        |
|----------------------|---|----------------------|--------|
|                      |   |                      |        |
| 45000t/a      6<br>/ | 6 | 45000t               | 45~50% |
|                      | 6 | 20500t               | 90%    |
|                      | 6 | 35000t               | 55~60% |
|                      |   | 30                   | --     |
|                      |   | 62                   | --     |
|                      |   | 20                   | --     |
|                      |   | 1.8                  | --     |
|                      |   | 84                   | --     |
|                      |   | 100                  | --     |
|                      |   | 50                   | --     |
|                      |   | 80    m <sup>2</sup> | --     |

4.5

|  |  |      |    |
|--|--|------|----|
|  |  | 50   | -- |
|  |  | 1500 | -- |
|  |  | 450  | -- |

2.2.3

2.2-2

2.2-2

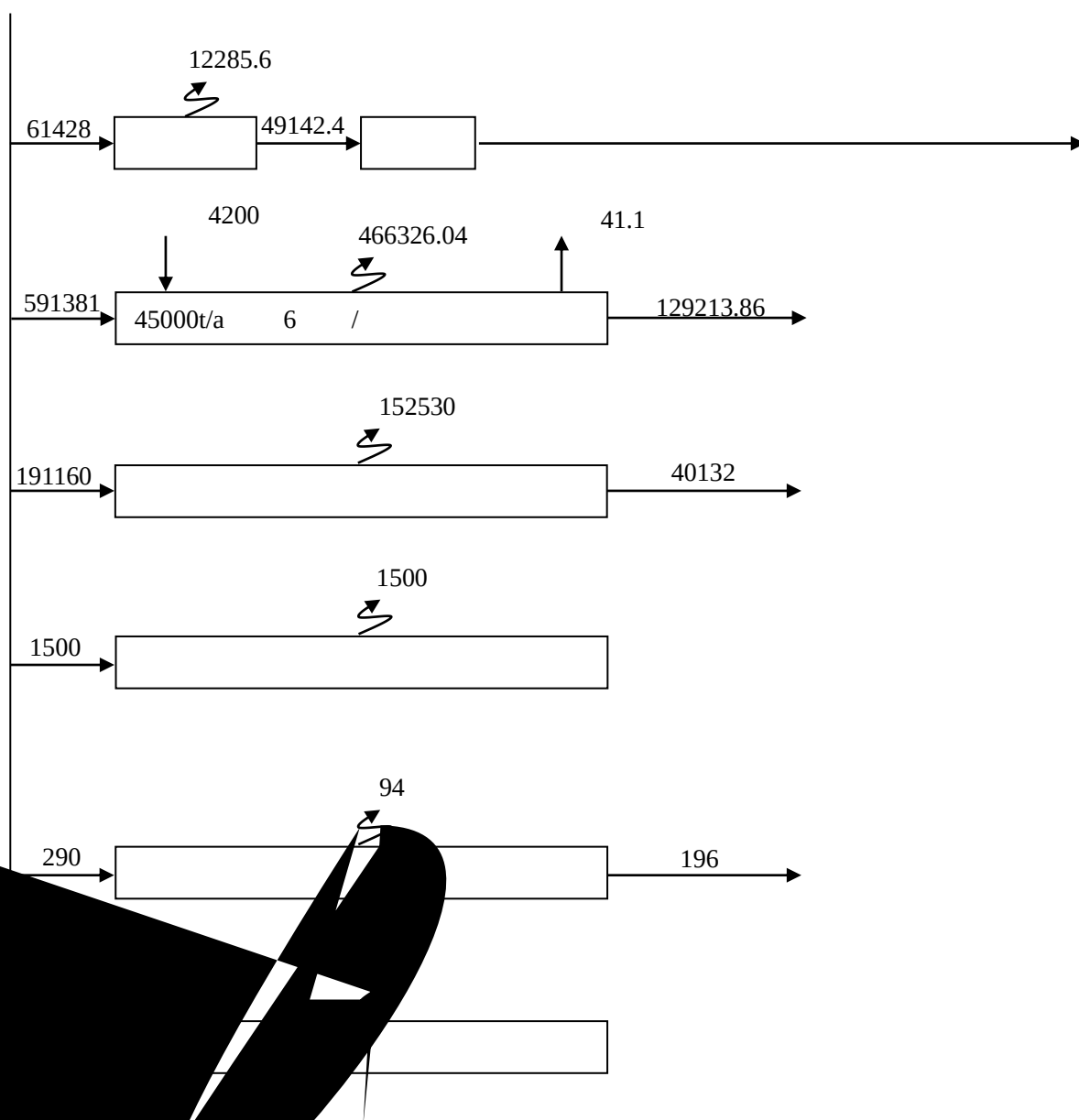
|  |                        |                          |
|--|------------------------|--------------------------|
|  |                        |                          |
|  | 45000t/a      6      / | 3<br><br>2               |
|  |                        | 1<br>1<br><br>1<br><br>1 |
|  |                        | 1                        |
|  |                        | 1                        |

|  |  |   |                     |                    |                   |
|--|--|---|---------------------|--------------------|-------------------|
|  |  | 1 |                     |                    |                   |
|  |  | 2 | 1                   | 1                  |                   |
|  |  | 8 | 1                   |                    | 2                 |
|  |  |   |                     | 1                  |                   |
|  |  |   | 170m <sup>3</sup> 2 |                    | 515m <sup>3</sup> |
|  |  | 2 |                     | 1000m <sup>3</sup> |                   |
|  |  | 2 |                     |                    |                   |
|  |  |   |                     |                    |                   |
|  |  | 2 |                     |                    |                   |
|  |  |   |                     |                    |                   |
|  |  |   |                     |                    |                   |
|  |  |   |                     |                    |                   |

|  |  |                 |                                                            |
|--|--|-----------------|------------------------------------------------------------|
|  |  |                 | UV<br>1 15m DA007                                          |
|  |  |                 | 1 44m DA025<br>1 30m<br>DA024<br>20m DA018<br>25m<br>DA029 |
|  |  | 45000t/a<br>/ 6 |                                                            |
|  |  |                 |                                                            |
|  |  |                 |                                                            |
|  |  |                 | / /                                                        |
|  |  |                 |                                                            |
|  |  |                 |                                                            |
|  |  |                 |                                                            |
|  |  |                 |                                                            |



|  |  |                   |
|--|--|-------------------|
|  |  | 4.5               |
|  |  |                   |
|  |  | 759m <sup>3</sup> |



2.2-3

 $\text{m}^3/\text{a}$

## 2.2.5.2

## 2.2.5.3

## 2.2.5.4

2.2-4

2.2-4

|  |   |  | m   | m    | m <sup>3</sup> | t    |
|--|---|--|-----|------|----------------|------|
|  | 4 |  | 6.0 | 6.1  | 170            | 612  |
|  | 2 |  | 10  | 12.8 | 1000           | 1800 |
|  | 2 |  | 8.1 | 10   | 515            | —    |
|  | 2 |  | 1.3 | 1.6  | 2.0            | 0.74 |
|  | 2 |  | 1.3 | 1.6  | 2.0            | 0.88 |

## 2.2.6

2.2.6.1 45000t/a 6 /

## 2.2.6.1.1

1

90

68~71

270

G1-1

G1-2

S1-12

G1-1 G1-2

1

40m

DA012 DA022 DA017

2

---

-

4.5

---

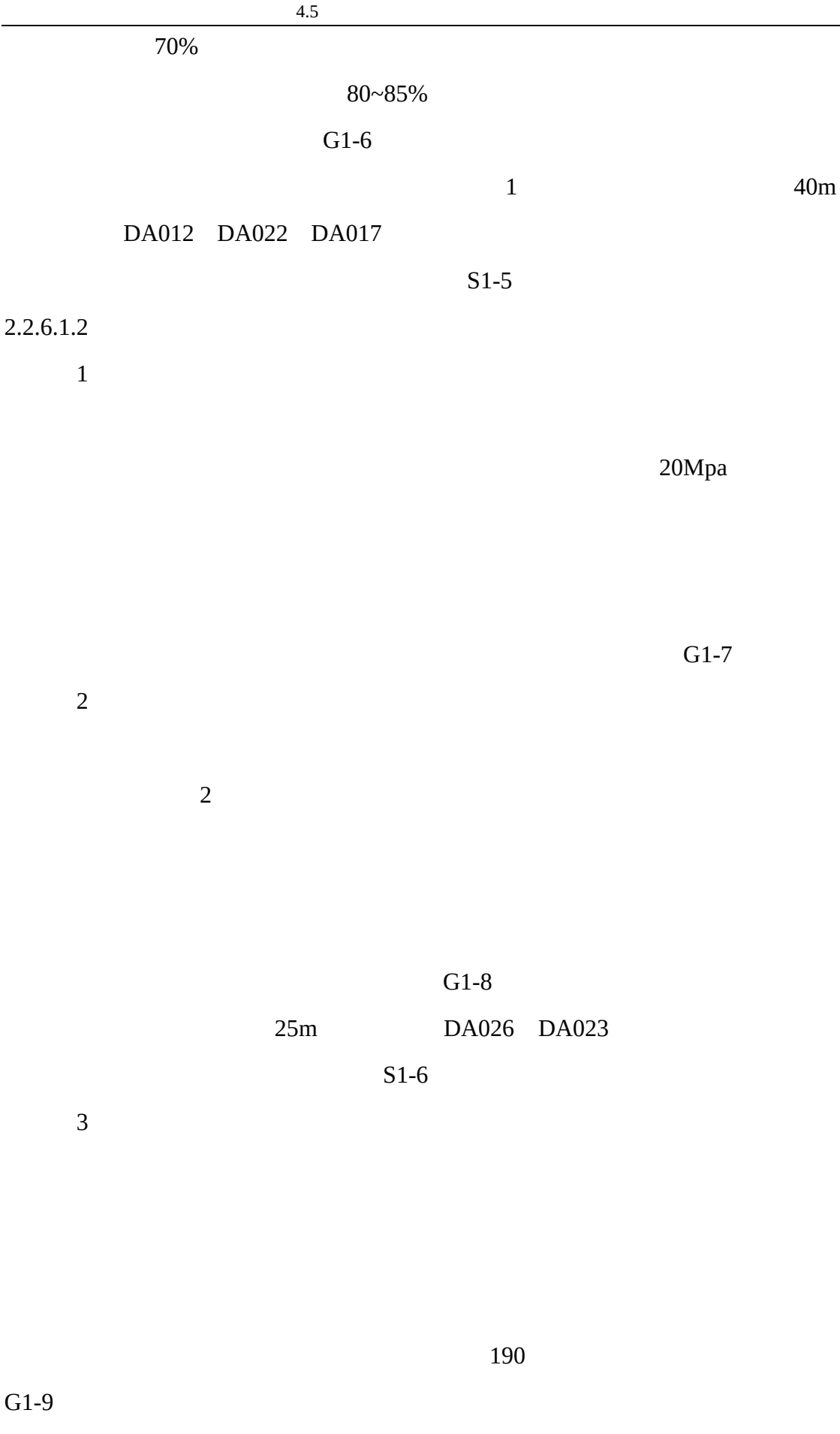
10%

4

0.06%

2

5



|           |     |     |         |       |       |
|-----------|-----|-----|---------|-------|-------|
|           |     | 4.5 |         |       |       |
|           |     |     | 20~25   |       |       |
|           |     |     |         | S1-7  |       |
|           | 15m |     | DA028   | DA027 |       |
| 4         |     |     |         |       |       |
|           |     |     | S1-8    |       | S1-12 |
| 2.2.6.1.3 |     |     |         |       |       |
|           |     |     | S1-9    |       |       |
| 2.2.6.1.4 |     |     |         |       |       |
|           |     |     |         |       | 20~30 |
|           | -   |     | 1.3~2.3 |       |       |
|           | pH  | 25  |         |       |       |
| G1-10     |     |     | G1-11   |       |       |
|           |     |     | G1-16   |       |       |
|           |     |     |         |       |       |

1

30m DA013 DA019

G1-12

30m DA013 DA019

G1-13

G1-14 G1-15

G1-13 G1-14 G1-15

35m DA014 DA015 DA020

DA016 DA021

S1-10

S1-12

2.2-4



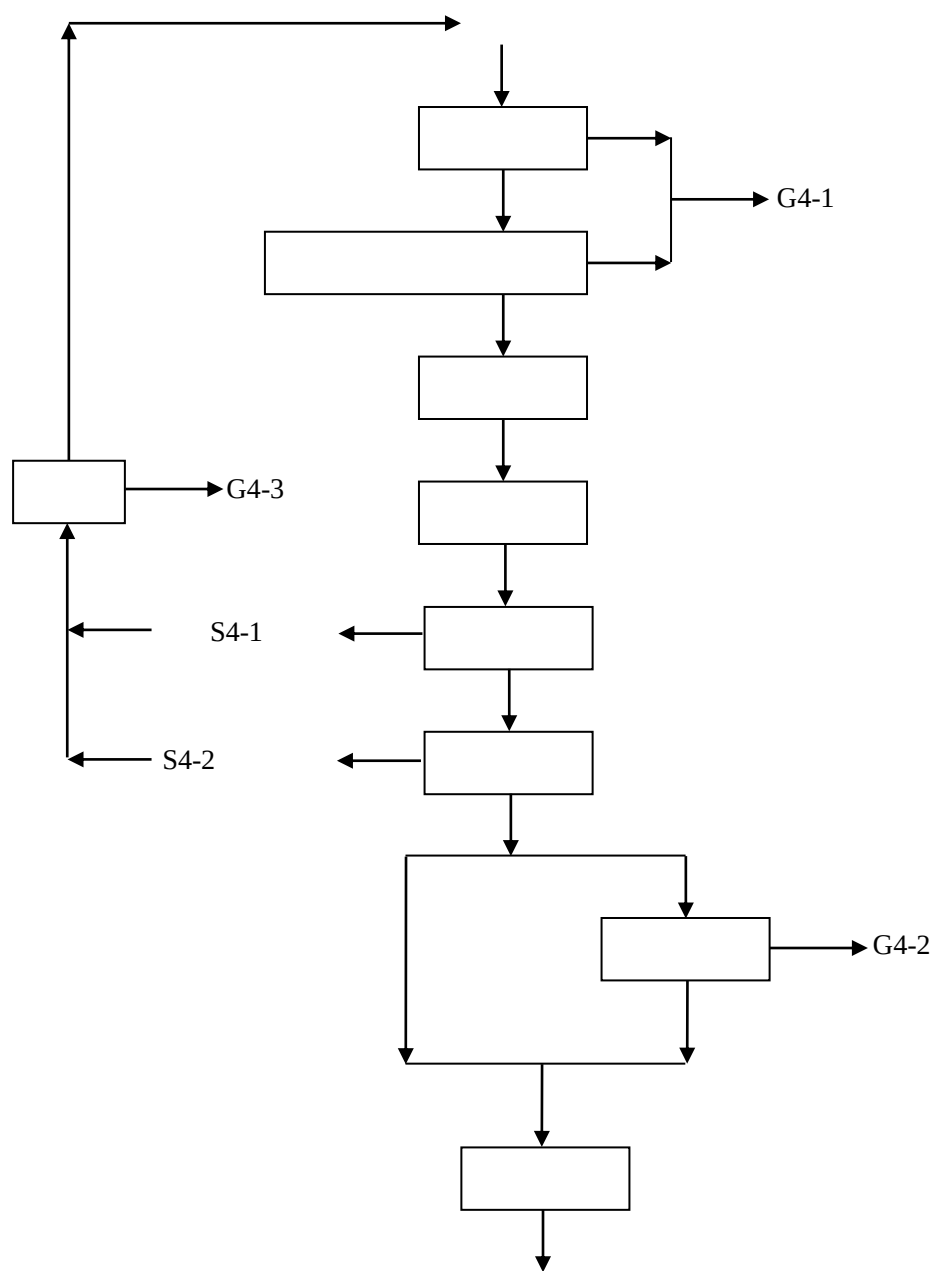
2.2.6.2

2.2.6.2.1

2.2-5~2.2-7

2.2-5



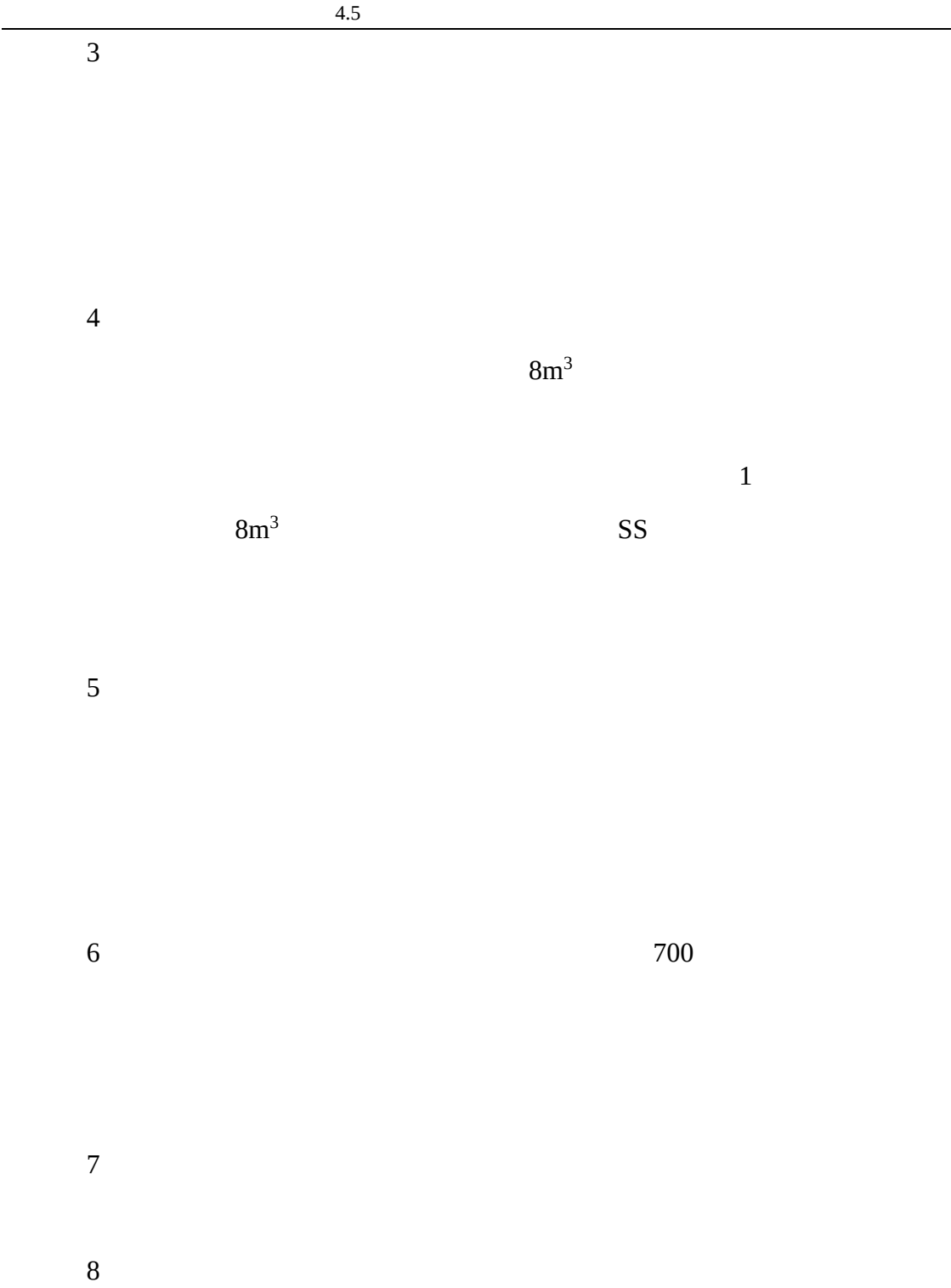


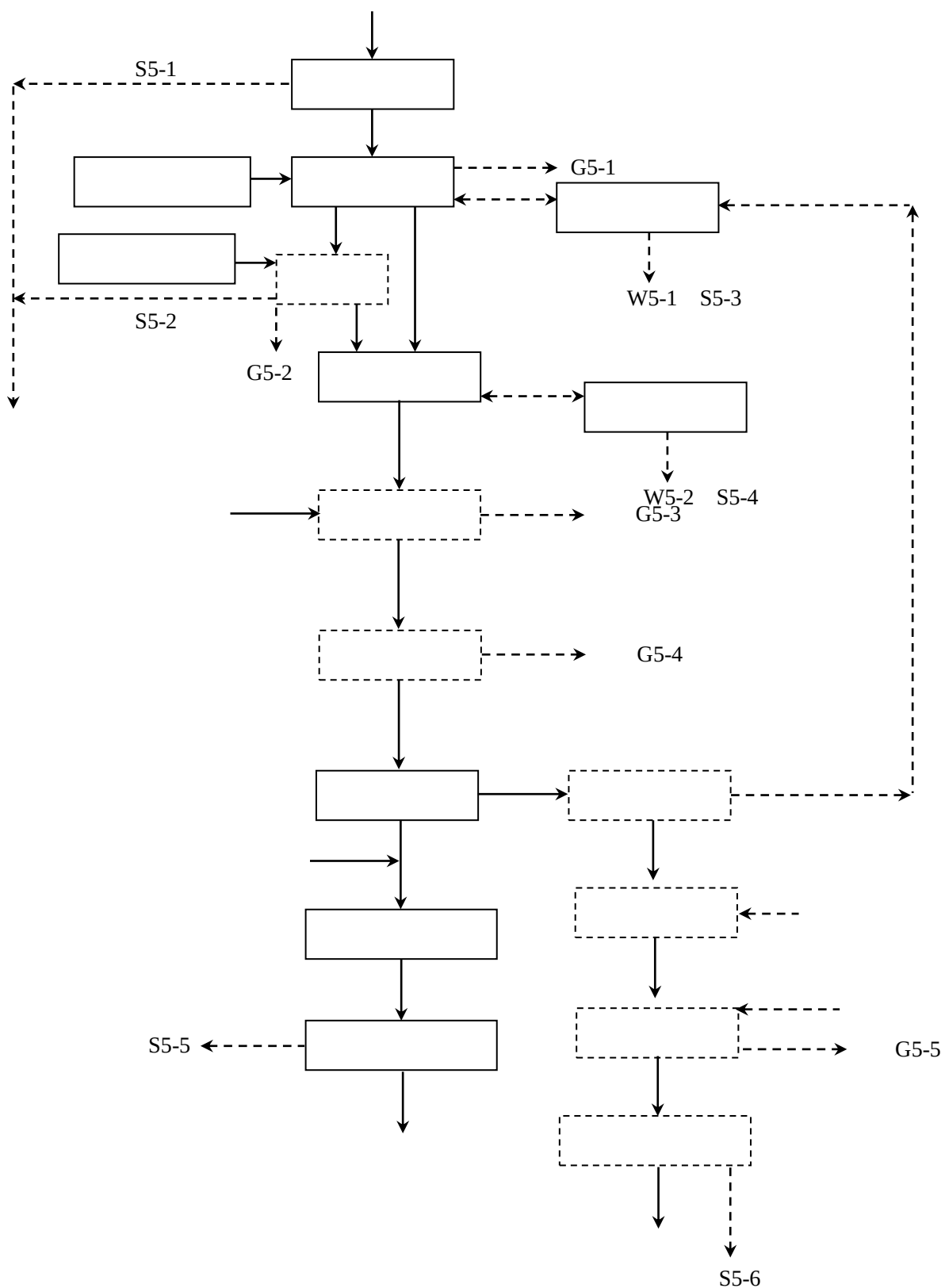
2.2-9

2.2.6.5

1

2

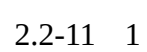


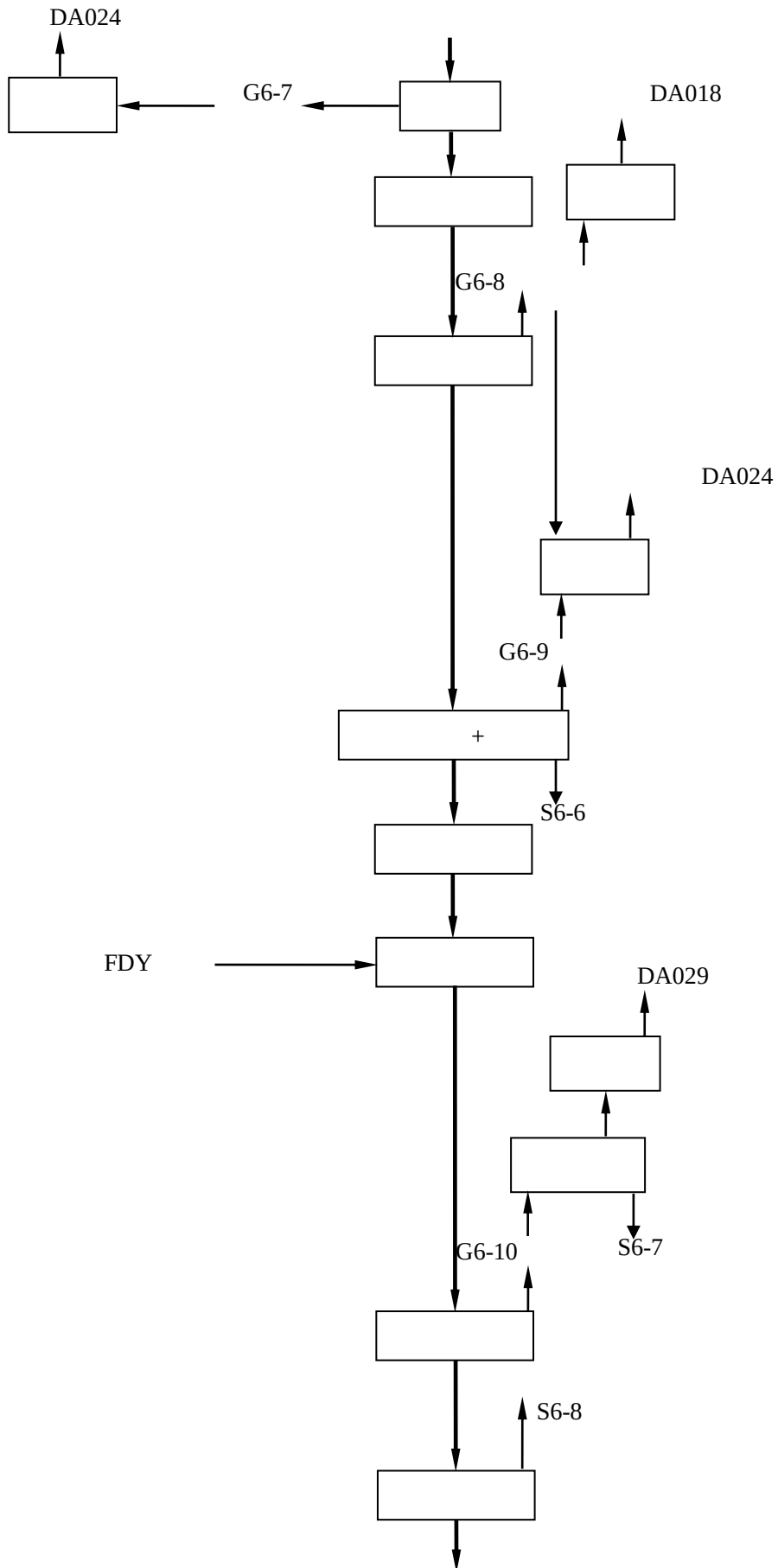


□

2.2-10









## 2.2.7

## 2.2.7.1

## 2.2.7.1.1

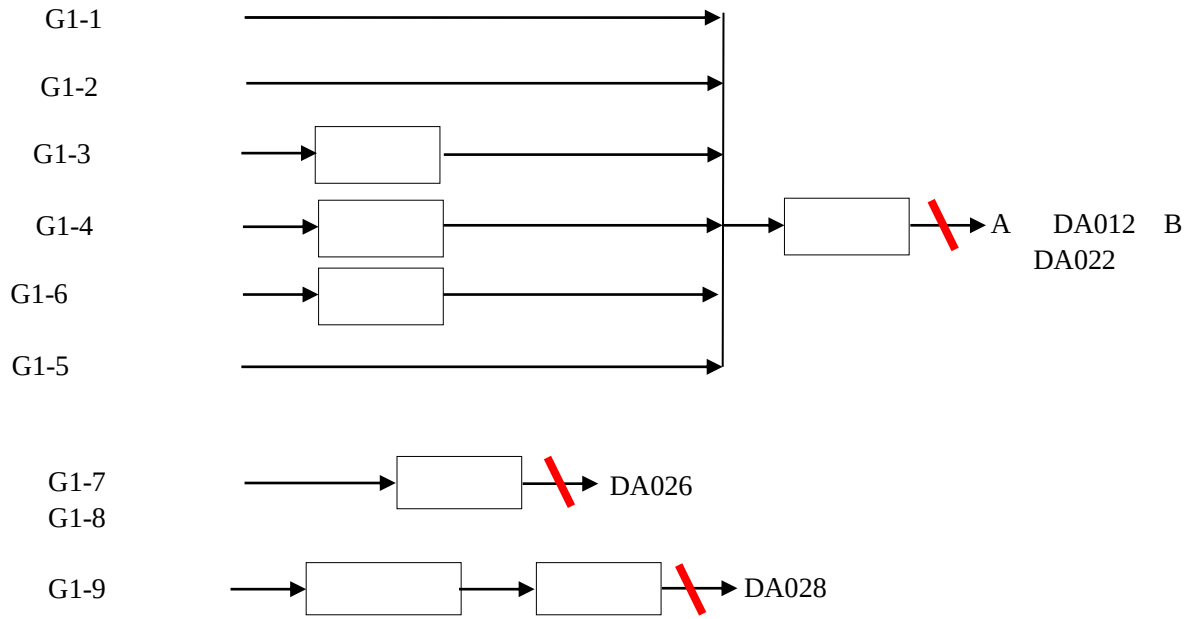
45000t/a      6      /

## 2.2-5

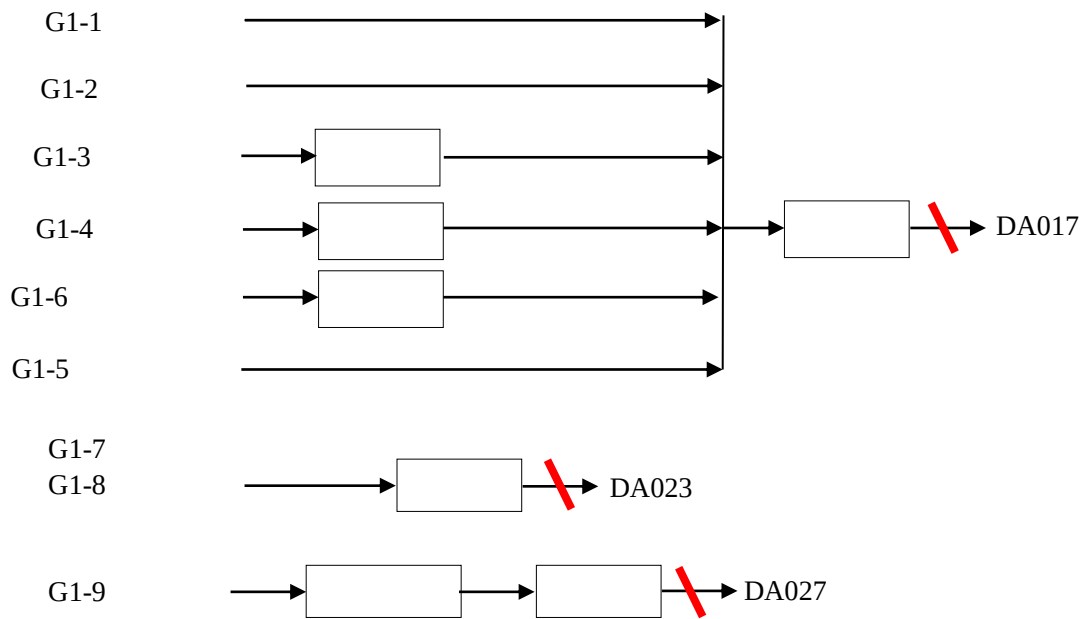
## 2.2-5

|       |  |  |                                                              |
|-------|--|--|--------------------------------------------------------------|
|       |  |  |                                                              |
| G1-1  |  |  | <div>1</div> <div>DA012   DA022   DA017</div> <div>40m</div> |
| G1-2  |  |  |                                                              |
| G1-3  |  |  |                                                              |
| G1-4  |  |  |                                                              |
| G1-6  |  |  |                                                              |
| G1-5  |  |  |                                                              |
| G1-7  |  |  | <div>DA026   DA023</div> <div>25m</div>                      |
| G1-8  |  |  |                                                              |
| G1-9  |  |  | <div>DA028   DA027</div> <div>15m</div>                      |
| G1-12 |  |  | <div>DA013   DA019</div> <div>30m</div>                      |
| G1-10 |  |  |                                                              |
| G1-11 |  |  |                                                              |

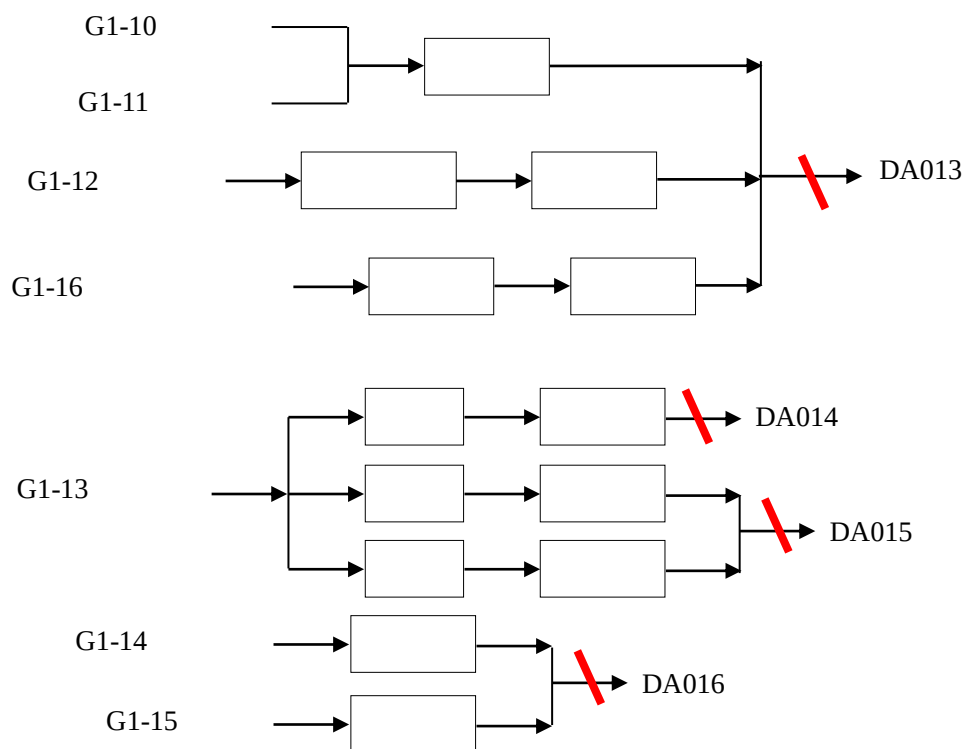
G1114



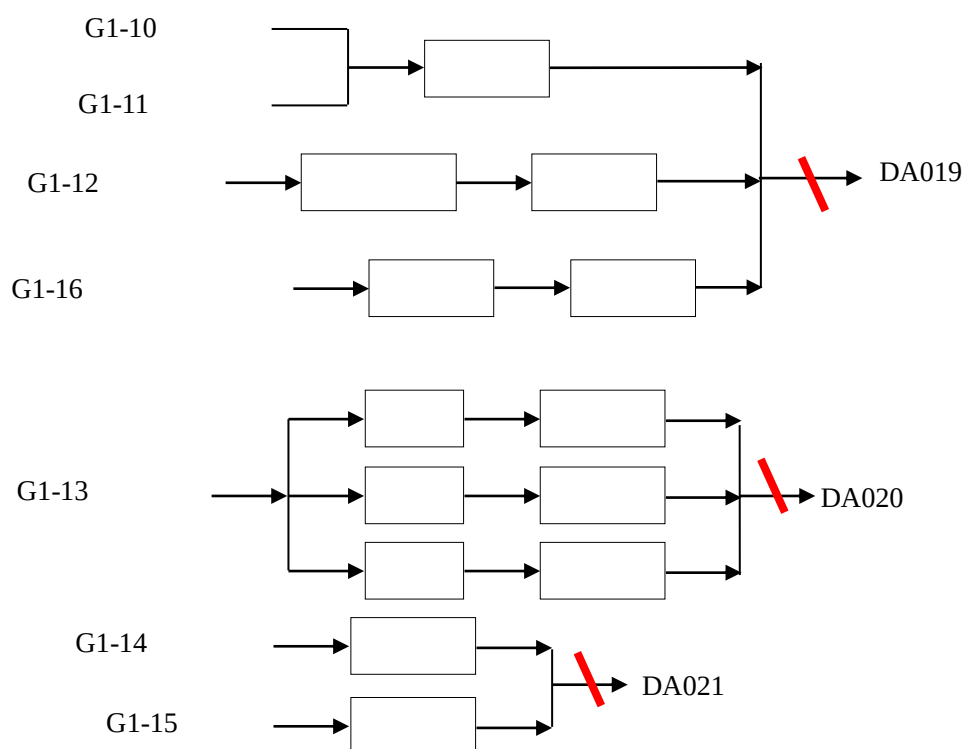
2.2-11



2.2-12



2.2-13



2.2-14

2022 C220189 2022 1 19  
2021 12 11  
2021 C210848-20  
2022 C220189-02 2022 3 10 -12

2.2-6

## 2.2-6

|       |      |            |   |       |       |         | kg/h    | m<br>m |       |      |  |
|-------|------|------------|---|-------|-------|---------|---------|--------|-------|------|--|
|       |      |            |   | m³/h  | mg/m³ | kg/h    |         |        | mg/m³ | kg/h |  |
| DA012 |      | 2022.1.19  | 1 | 2022  | 1.5   | 0.00303 | 0.00364 | 40/0.5 | 10    | 39   |  |
|       |      |            | 2 | 2207  | 1.7   | 0.00375 |         |        |       |      |  |
|       |      |            | 3 | 1976  | 2.1   | 0.00415 |         |        |       |      |  |
|       | VOCs |            | 1 | 2022  | 4.52  | 0.00914 | 0.00855 |        | 60    | 3.0  |  |
|       |      |            | 2 | 2022  | 4.10  | 0.00829 |         |        |       |      |  |
|       |      |            | 3 | 2022  | 4.06  | 0.00821 |         |        |       |      |  |
| DA022 |      | 2022.1.19  | 1 | 2509  | 9.4   | 0.0236  | 0.0276  | 30/0.5 | 10    | 23   |  |
|       |      |            | 2 | 3564  | 7.8   | 0.0278  |         |        |       |      |  |
|       |      |            | 3 | 3512  | 8.9   | 0.0313  |         |        |       |      |  |
|       | VOCs |            | 1 | 2509  | 4.13  | 0.0104  | 0.0109  |        | 60    | 3.0  |  |
|       |      |            | 2 | 2509  | 4.28  | 0.0107  |         |        |       |      |  |
|       |      |            | 3 | 2509  | 4.58  | 0.0115  |         |        |       |      |  |
| DA017 |      | 2022.1.19  | 1 | 683   | 7.6   | 0.00519 | 0.00607 | 35/0.3 | 10    | 31   |  |
|       |      |            | 2 | 936   | 8.1   | 0.00758 |         |        |       |      |  |
|       |      |            | 3 | 747   | 7.3   | 0.00545 |         |        |       |      |  |
|       | VOCs |            | 1 | 683   | 3.92  | 0.00268 | 0.00258 |        | 60    | 3.0  |  |
|       |      |            | 2 | 683   | 3.99  | 0.00273 |         |        |       |      |  |
|       |      |            | 3 | 683   | 3.40  | 0.00232 |         |        |       |      |  |
| DA026 | VOCs | 2021.12.11 | 1 | 14420 | 3.03  | 0.0437  | 0.0624  |        |       |      |  |

|       |      |           |           |       |      |         |         |        |         |       |    |   |  |
|-------|------|-----------|-----------|-------|------|---------|---------|--------|---------|-------|----|---|--|
|       |      |           | 2         | 30896 | 8.87 | 0.274   |         |        |         |       |    |   |  |
|       |      |           | 3         | 31944 | 9.80 | 0.313   |         |        |         |       |    |   |  |
| DA028 | VOCs | 2022.3.10 | 1         | 7645  | 7.28 | 0.0557  | 0.0519  | 35/0.6 | 60      | 3.0   |    |   |  |
|       |      |           | 2         | 7645  | 6.92 | 0.0529  |         |        |         |       |    |   |  |
|       |      |           | 3         | 7645  | 6.16 | 0.0471  |         |        |         |       |    |   |  |
|       |      |           | 1         | 7781  | 3.7  | 0.0288  | 0.0276  |        | 10      | 31    |    |   |  |
|       |      |           | 2         | 7645  | 3.8  | 0.0291  |         |        |         |       |    |   |  |
|       |      |           | 3         | 7822  | 3.2  | 0.0250  |         |        |         |       |    |   |  |
| DA027 | VOCs | 2022.3.11 | 1         | 40366 | 2.77 | 0.112   | 0.108   | 30/1.2 | 60      | 3.0   |    |   |  |
|       |      |           | 2         | 40366 | 2.52 | 0.102   |         |        |         |       |    |   |  |
|       |      |           | 3         | 40366 | 2.74 | 0.111   |         |        |         |       |    |   |  |
|       |      |           | 1         | 40366 | 3.9  | 0.157   | 0.138   |        | 10      | 23    |    |   |  |
|       |      |           | 2         | 39725 | 3.4  | 0.135   |         |        |         |       |    |   |  |
|       |      |           | 3         | 38398 | 3.2  | 0.123   |         |        |         |       |    |   |  |
| DA013 |      | 2022.1.20 | 1         | 2094  | 1.1  | 0.00230 | 0.00313 | 28/0.3 | 10      | 19.58 |    |   |  |
|       |      |           | 2         | 2095  | 1.5  | 0.00314 |         |        |         |       |    |   |  |
|       |      |           | 3         | 1979  | 2.0  | 0.00396 |         |        |         |       |    |   |  |
|       | VOCs |           | 1         | 2094  | 43.0 | 0.0900  | 0.0990  |        | 60      | 3.0   |    |   |  |
|       |      |           | 2         | 2094  | 57.6 | 0.121   |         |        |         |       |    |   |  |
|       |      |           | 3         | 2094  | 41.0 | 0.0859  |         |        |         |       |    |   |  |
|       |      |           | 1         | 2094  | 3.46 | 0.00725 | 0.00835 |        | —       | 17.6  |    |   |  |
|       |      |           | 2         | 2094  | 4.71 | 0.00986 |         |        |         |       |    |   |  |
|       |      |           | 3         | 2094  | 3.79 | 0.00794 |         |        |         |       |    |   |  |
|       |      |           | 1         | 2094  | 0.6  | 0.00126 | 0.00133 |        | 5       | —     |    |   |  |
|       |      |           | 2         | 2094  | 0.7  | 0.00147 |         |        |         |       |    |   |  |
|       |      |           | 3         | 2094  | 0.6  | 0.00126 |         |        |         |       |    |   |  |
|       |      |           | 2022.3.27 | 1     | 921  | 3.6     | 0.00332 |        | 0.00375 |       | 15 | — |  |
|       |      |           |           | 2     | 1118 | 3.3     | 0.00369 |        |         |       |    |   |  |

4.5

|  |  |  |   |      |     |         |         |  |    |    |  |
|--|--|--|---|------|-----|---------|---------|--|----|----|--|
|  |  |  | 3 | 1031 | 4.1 | 0.00423 |         |  |    |    |  |
|  |  |  | 1 | 1718 | 1.9 | 0.00326 |         |  |    |    |  |
|  |  |  | 2 | 1997 | 2.3 | 0.00459 | 0.00374 |  | 10 | 23 |  |
|  |  |  | 3 | 1536 | 2.2 | 0.00338 |         |  |    |    |  |

2022.1.20

DA019

30/0.5

|       |      |           |      |        |      |         |         |        |    |     |  |
|-------|------|-----------|------|--------|------|---------|---------|--------|----|-----|--|
|       |      | 2022.3.27 | 1    | 2169   | 1.2  | 0.00260 | 0.00348 |        | 15 | —   |  |
|       |      |           | 2    | 2609   | 1.6  | 0.00417 |         |        |    |     |  |
|       |      |           | 3    | 2041   | 1.8  | 0.00367 |         |        |    |     |  |
| DA015 | VOCs | 2022.1.20 | 1    | 12375  | 11.9 | 0.147   | 0.164   | 30/0.8 | 60 | 3.0 |  |
|       |      |           | 2    | 12375  | 13.7 | 0.170   |         |        |    |     |  |
|       |      |           | 3    | 12226  | 14.3 | 0.175   |         |        |    |     |  |
|       |      |           | 1    | 12375  | 0.8  | 0.00990 | 0.00905 |        | 5  | —   |  |
|       |      |           | 2    | 12375  | 0.8  | 0.00990 |         |        |    |     |  |
|       |      |           | 3    | 12226  | 0.6  | 0.00734 |         |        |    |     |  |
|       |      |           | 1    | 12375  | 2.9  | 0.0124  | 0.00631 |        | 10 | 23  |  |
|       |      |           | 2    | 12226  | 2.4  | 0.00359 |         |        |    |     |  |
|       |      |           | 3    | 10883  | 2.7  | 0.00293 |         |        |    |     |  |
|       |      |           | 1    | 12375  | 2.62 | 0.0324  | 0.0365  |        | —  | 20  |  |
|       |      |           | 2    | 12375  | 3.08 | 0.0381  |         |        |    |     |  |
| 3     |      | 12226     | 3.19 | 0.0390 |      |         |         |        |    |     |  |



|       |      |           |   |       |      |         |         |        |    |     |  |
|-------|------|-----------|---|-------|------|---------|---------|--------|----|-----|--|
|       |      |           | 2 | 2884  | 0.7  | 0.00202 |         |        |    |     |  |
|       |      |           | 3 | 2884  | 0.7  | 0.00202 |         |        |    |     |  |
|       |      | 2022.3.27 | 1 | 2733  | 1.2  | 0.00328 |         |        |    |     |  |
|       |      |           | 2 | 2953  | 1.8  | 0.00523 | 0.00367 |        | 15 | —   |  |
|       |      |           | 3 | 2786  | 0.9  | 0.00251 |         |        |    |     |  |
| DA016 | VOCs | 2022.3.07 | 1 | 5606  | 3.63 | 0.0203  | 0.0213  | 30/0.8 | 60 | 3.0 |  |
|       |      |           | 2 | 6160  | 3.97 | 0.0245  |         |        |    |     |  |
|       |      |           | 3 | 5529  | 3.48 | 0.0192  |         |        |    |     |  |
|       |      | 2022.3.27 | 1 | 7471  | 2.5  | 0.0187  | 0.0162  |        | 15 | —   |  |
|       |      |           | 2 | 6612  | 2.0  | 0.0132  |         |        |    |     |  |
|       |      |           | 3 | 7970  | 2.1  | 0.0167  |         |        |    |     |  |
|       |      |           | 1 | 7471  | 0.8  | 0.00598 | 0.00676 |        | 5  | —   |  |
|       |      |           | 2 | 6612  | 1.2  | 0.00793 |         |        |    |     |  |
|       |      |           | 3 | 7970  | 0.8  | 0.00638 |         |        |    |     |  |
|       |      |           | 1 | 7471  | 21.9 | 0.164   | 0.158   |        | —  | 20  |  |
|       |      |           | 2 | 6612  | 19.4 | 0.128   |         |        |    |     |  |
|       |      |           | 3 | 7970  | 22.9 | 0.183   |         |        |    |     |  |
|       |      |           |   |       |      |         |         |        |    |     |  |
| DA021 | VOCs | 2022.3.07 | 1 | 10657 | 3.02 | 0.0322  | 0.0320  | 30/0.8 | 60 | 3.0 |  |
|       |      |           | 2 | 10496 | 3.03 | 0.0318  |         |        |    |     |  |
|       |      |           | 3 | 10343 | 3.08 | 0.0319  |         |        |    |     |  |
|       |      | 2022.3.27 | 1 | 4839  | 1.5  | 0.00726 | 0.00664 |        | 15 | —   |  |
|       |      |           | 2 | 5170  | 0.8  | 0.00414 |         |        |    |     |  |
|       |      |           | 3 | 5011  | 1.7  | 0.00852 |         |        |    |     |  |
|       |      |           | 1 | 4839  | 0.7  | 0.00339 | 0.00385 |        | 5  | —   |  |
|       |      |           | 2 | 5170  | 0.9  | 0.00465 |         |        |    |     |  |
|       |      |           | 3 | 5011  | 0.7  | 0.00351 |         |        |    |     |  |
|       |      |           | 1 | 4839  | 2.22 | 0.0107  | 0.0112  |        | —  | 20  |  |

4.5

---

2

5170

2.59

2.2-6

GB16297-1996 2

DB37/2376-2019

1 GB14554-93

2 VOCs

6

DB37/801.6-2018 1

6

DB37/801.6-2018 2

GB31572-2015 5

6

DB37/801.6-2018 2

133566m<sup>3</sup>/h 69857.28 m<sup>3</sup>/a

1.883t/a VOCs 7.661t/a

955t/a 0.213t/a 0.497t/a t/a

t/a

t/a

1 15m DA031

2021 C210848-20

2021 12 13

2.2-7

2.2-7

|    |            |   |      | m <sup>3</sup> /h | mg/m <sup>3</sup> | kg/h |        |         | mg/m <sup>3</sup> | kg/h |  |
|----|------------|---|------|-------------------|-------------------|------|--------|---------|-------------------|------|--|
| A0 |            | 1 | 8822 | 5.1               | 0.045             |      |        |         |                   |      |  |
|    | 2021.12.13 |   |      |                   |                   |      | 0.0402 | 15/0.35 | 10                | 3.5  |  |

2.2-7

GB16297-1996 2

DB37/2376-2019

1

7977m<sup>3</sup>/h 5743.44 m<sup>3</sup>/a

0.29t/a

/ G4-1 G4-2

G4-3 G4-4 2.2-8

2.2-8

|              |   |                               |
|--------------|---|-------------------------------|
|              |   |                               |
| G4-2         |   | UV<br>1 15m DA007             |
| G4-1<br>G4-3 | / | VOCs<br>+ UV<br>/ 1 26m DA005 |
| G4-4         |   | 1 15m<br>DA008                |

2020 12 22

2.2-9

2.2-9

|       |      |            |   |                   |                   |         | kg/<br>h | m  |                   |      |  |
|-------|------|------------|---|-------------------|-------------------|---------|----------|----|-------------------|------|--|
|       |      |            |   | m <sup>3</sup> /h | mg/m <sub>3</sub> | kg/h    |          |    | mg/m <sub>3</sub> | kg/h |  |
| DA007 | VOCs | 2020.12.22 | 1 | 6467.255          | 8.13              | 0.0526  | 0.0490   | 15 | 60                | 3.0  |  |
|       |      |            | 2 | 6467.255          | 7.50              | 0.0485  |          |    |                   |      |  |
|       |      |            | 3 | 6467.255          | 7.12              | 0.0460  |          |    |                   |      |  |
| DA005 | VOCs | 2020.12.22 | 1 | 5125.481          | 1.79              | 0.00917 | 0.00679  | 26 | 50                | 2.0  |  |
|       |      |            | 2 | 5125.734          | 2.64              | 0.00135 |          |    |                   |      |  |
|       |      |            | 3 | 5056.011          | 1.95              | 0.00986 |          |    |                   |      |  |
|       |      |            | 1 | 5125.481          |                   | —       |          |    |                   |      |  |
|       |      |            | 2 | 5125.734          |                   | —       |          |    | 0.5               | 0.2  |  |

| 4.5   |  |            |   |          |       |          |          |    |     |     |  |
|-------|--|------------|---|----------|-------|----------|----------|----|-----|-----|--|
|       |  |            | 1 | 5125.481 | 0.023 | 0.000118 | 0.000111 |    | 5.0 | 0.6 |  |
|       |  |            | 2 | 5125.734 | 0.020 | 0.000103 |          |    |     |     |  |
|       |  |            | 3 | 5056.011 |       | ——       |          |    |     |     |  |
|       |  |            | 1 | 5125.481 |       | ——       | —        |    | 15  | 0.8 |  |
|       |  |            | 2 | 5125.734 |       | ——       |          |    |     |     |  |
|       |  |            | 3 | 5056.011 |       | ——       |          |    |     |     |  |
|       |  |            | 1 | 5125.481 | 4.6   | 0.0236   | 0.0254   |    | 10  |     |  |
|       |  |            | 2 | 5125.734 | 5.3   | 0.0272   |          |    |     |     |  |
|       |  |            | 3 | 5056.011 | 5.0   | 0.0253   |          |    |     |     |  |
| DA008 |  | 2020.12.22 | 1 | 4264.790 | 4.0   | 0.0171   | 0.0169   | 15 | 10  | 3.5 |  |
|       |  |            | 2 | 3814.772 | 4.3   | 0.0164   |          |    |     |     |  |
|       |  |            | 3 | 4540.407 | 3.8   | 0.0173   |          |    |     |     |  |

DA007

VOCs

6

DB37/801.6-2018

1

GB16297-1996

2.2-11

2.2-11

|      |  |  |                                                       |
|------|--|--|-------------------------------------------------------|
|      |  |  |                                                       |
| G6-1 |  |  | 44m                      DA025                      1 |
| G6-3 |  |  |                                                       |
| G6-4 |  |  |                                                       |
| G6-6 |  |  |                                                       |
| G6-5 |  |  |                                                       |
| G6-2 |  |  |                                                       |
| G6-  |  |  | 30m                      1                      DA024 |

## 2.2-12

|       |      |   |       |       |        | kg/h  | m<br>m |       |      |    |
|-------|------|---|-------|-------|--------|-------|--------|-------|------|----|
|       |      |   | m³/h  | mg/m³ | kg/h   |       |        | mg/m³ | kg/h |    |
| DA018 |      | 1 | 20265 | 24.4  | 0.494  | 0.449 | 30/1.2 | ——    | ——   | —— |
|       |      | 2 | 19567 | 22.6  | 0.442  |       |        |       |      |    |
|       |      | 3 | 19374 | 21.2  | 0.411  |       |        |       |      |    |
|       | VOCs | 1 | 20265 | 16.5  | 0.334  | 0.278 |        | ——    | ——   | —— |
|       |      | 2 | 19567 | 14.0  | 0.274  |       |        |       |      |    |
|       |      | 3 | 19374 | 11.7  | 0.227  |       |        |       |      |    |
| DA018 |      | 1 | 39277 | 3.1   | 0.122  | 0.108 |        |       |      |    |
|       |      | 2 | 41294 | 2.6   | 0.107  |       |        | 10    | 23   |    |
|       |      | 3 | 40116 | 2.4   | 0.0963 |       |        |       |      |    |
|       | VOCs | 1 | 41294 | 11.4  | 0.185  | 0.207 |        |       |      |    |
|       |      | 2 | 41294 | 11.4  | 0.173  |       | 60     | 3.0   |      |    |
|       |      | 3 | 41294 | 11.4  | 0.264  |       |        |       |      |    |

DA024

|       |      |   |       |      |         |         |        |    |       |   |
|-------|------|---|-------|------|---------|---------|--------|----|-------|---|
|       |      | 2 | 6562  | 3.0  | 0.0197  |         |        |    |       |   |
|       |      | 3 | 6616  | 3.3  | 0.0218  |         |        |    |       |   |
|       | VOCs | 1 | 6562  | 3.05 | 0.0200  | 0.0216  |        | 60 | 3.0   |   |
|       |      | 2 | 6562  | 3.50 | 0.0230  |         |        |    |       |   |
|       |      | 3 | 6562  | 3.36 | 0.0220  |         |        |    |       |   |
| DA025 |      | 1 | 3130  | 21.4 | 0.0670  | 0.0652  | 30/0.5 | —  | —     | — |
|       |      | 2 | 3054  | 22.1 | 0.0675  |         |        |    |       |   |
|       |      | 3 | 2968  | 20.6 | 0.0611  |         |        |    |       |   |
|       | VOCs | 1 | 3054  | 3.51 | 0.0107  | 0.00983 |        | —  | —     | — |
|       |      | 2 | 3054  | 3.14 | 0.00959 |         |        |    |       |   |
|       |      | 3 | 3054  | 3.01 | 0.00919 |         |        |    |       |   |
| DA025 |      | 1 | 3352  | 2.3  | 0.00771 | 0.01    | 30/0.5 | 10 | 23    |   |
|       |      | 2 | 3664  | 3.2  | 0.0117  |         |        |    |       |   |
|       |      | 3 | 3329  | 3.2  | 0.0107  |         |        |    |       |   |
|       | VOCs | 1 | 3664  | 2.91 | 0.0106  | 0.0105  |        | 60 | 3.0   |   |
|       |      | 2 | 3664  | 2.73 | 0.0100  |         |        |    |       |   |
|       |      | 3 | 3664  | 2.94 | 0.0108  |         |        |    |       |   |
| DA029 |      | 1 | 11495 | 23.9 | 0.275   | 0.256   | 25/0.5 | —  | —     | — |
|       |      | 2 | 12271 | 20.2 | 0.248   |         |        |    |       |   |
|       |      | 3 | 11321 | 21.6 | 0.245   |         |        |    |       |   |
|       | VOCs | 1 | 11495 | 14.1 | 0.162   | 0.167   |        | —  | —     | — |
|       |      | 2 | 12271 | 15.0 | 0.184   |         |        |    |       |   |
|       |      | 3 | 11321 | 13.6 | 0.154   |         |        |    |       |   |
| DA029 |      | 1 | 9601  | 3.5  | 0.0336  | 0.0292  |        | 10 | 14.45 |   |



|  |      |   |       |      |        |        |  |    |     |  |
|--|------|---|-------|------|--------|--------|--|----|-----|--|
|  |      | 2 | 10925 | 2.6  | 0.0248 |        |  |    |     |  |
|  |      | 3 | 10108 | 2.9  | 0.0293 |        |  |    |     |  |
|  | VOCs | 1 | 10925 | 4.10 | 0.0448 | 0.0479 |  | 60 | 3.0 |  |
|  |      | 2 | 10925 | 5.09 | 0.0556 |        |  |    |     |  |
|  |      | 3 | 10925 | 3.95 | 0.0432 |        |  |    |     |  |

GB16297-1996

2

DB37/2376-2019 1

VOCs

6

DB37/801.6-2018 1

38112m<sup>3</sup>/h 27440.64 m<sup>3</sup>/a VOCs

2.411t/a

1.397t/a

2.2-13

2.2-13

|                 | t/a   | VOCs<br>t/a | t/a   | t/a   | t/a   | t/a | t/a | t/a |
|-----------------|-------|-------------|-------|-------|-------|-----|-----|-----|
| 45000t/a 6<br>/ | 1.882 | 7.661       | 1.955 | 0.212 | 0.497 |     |     |     |
|                 | 0.29  | —           | —     | —     | —     | —   | —   | —   |
|                 | 0.102 | 0.134       | —     | —     | —     | —   | —   | —   |
|                 | 1.397 | 2.411       | —     | —     | —     | —   | —   | —   |
|                 | 3.619 | 10.139      | 1.955 | 0.212 | 0.497 |     |     |     |

2.2.7.1.2

2.2-14

2.2-14

|   |                 |  |
|---|-----------------|--|
|   |                 |  |
| 1 | 45000t/a 6<br>/ |  |

4.5

|   |  |  |
|---|--|--|
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |
| 5 |  |  |

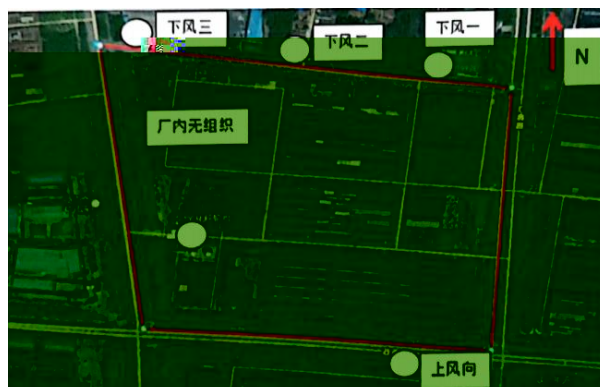
2021 C210848-08

2021 9 30

2.2-15

2.2-16

2.2-15



2.2-15

2.2-15

|  | 2021.9.30 |                   |                          |                   |                   |                           |                   |
|--|-----------|-------------------|--------------------------|-------------------|-------------------|---------------------------|-------------------|
|  |           | mg/m <sup>3</sup> | HCl<br>mg/m <sup>3</sup> | mg/m <sup>3</sup> | mg/m <sup>3</sup> | VOCs<br>mg/m <sup>3</sup> | mg/m <sup>3</sup> |
|  | 09:00     | 0.04              |                          | 0.01              | 0.003             | 0.86                      | 0.25              |
|  | 11:00     | 0.04              |                          | 0.01              | 0.006             | 0.98                      | 0.217             |
|  | 13:00     | 0.02              |                          | 0.01              | 0.004             | 0.97                      | 0.267             |

4.5

|  |       |             |       |      |       |             |              |
|--|-------|-------------|-------|------|-------|-------------|--------------|
|  | 09:00 | <b>0.11</b> | 0.023 | 0.01 | 0.007 | 1.31        | 0.284        |
|  | 11:00 | 0.09        | 0.026 | 0.02 | 0.008 | 1.30        | 0.250        |
|  | 13:00 | 0.09        | 0.034 | 0.01 | 0.007 | 1.44        | <b>0.333</b> |
|  | 09:00 | —           | —     | —    | —     | 1.53        | —            |
|  | 11:00 | —           | —     | —    | —     | 1.51        | —            |
|  | 13:00 | —           | —     | —    | —     | <b>1.61</b> | —            |
|  |       | 0.11        | 0.059 | 0.02 | 0.009 | 1.61        | 0.333        |
|  |       | 1.5         | 0.2   | 0.2  | 0.06  | 2.0         | 1.0          |
|  |       |             |       |      |       |             |              |

2.2-16

|           |       | ( )  |   | m/s) | %    | (hPa)  | /   |
|-----------|-------|------|---|------|------|--------|-----|
| 2021.9.30 | 09:00 | 20.6 | S | 1.5  | 65.8 | 1005.1 | 3/2 |
|           | 11:00 | 23.5 | S | 1.6  | 60.1 | 1004.8 | 3/1 |
|           | 13:00 | 25.6 | S | 1.5  | 58.1 | 1003.4 | 3/2 |

2.2-15

HCl

GB16297-1996 2

GB14554-93 1

VOCs 4

DB37/2801.4-2017 3 5

DB37/2801.5-2018 3

6 DB37/801.6-2018 3

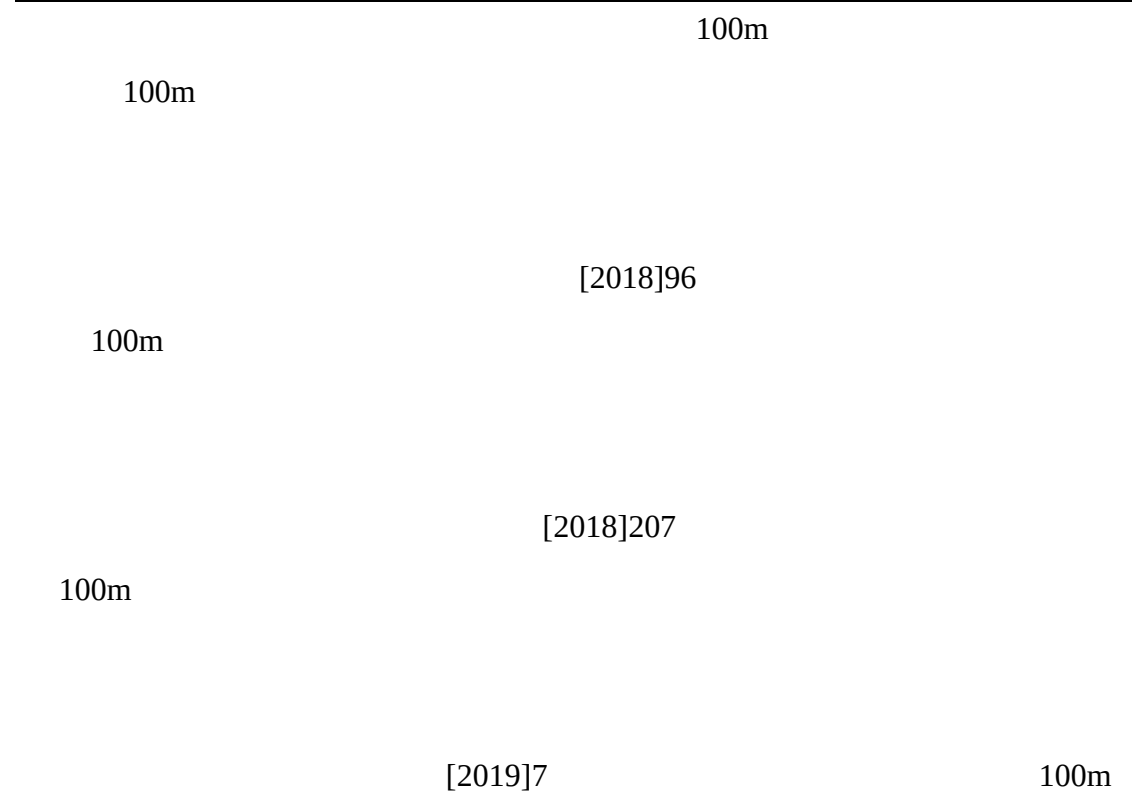
2.2.7.1.3

45000t/a 6 /

45000t/a 6 /

100m

100m 11



2.2.7.2

2.2.7.2.1

2.2-17

2.2-17

|   |                        |  |  |
|---|------------------------|--|--|
|   |                        |  |  |
| 1 | 45000t/a      6      / |  |  |
| 2 |                        |  |  |
| 3 |                        |  |  |
| 4 |                        |  |  |
| 5 |                        |  |  |

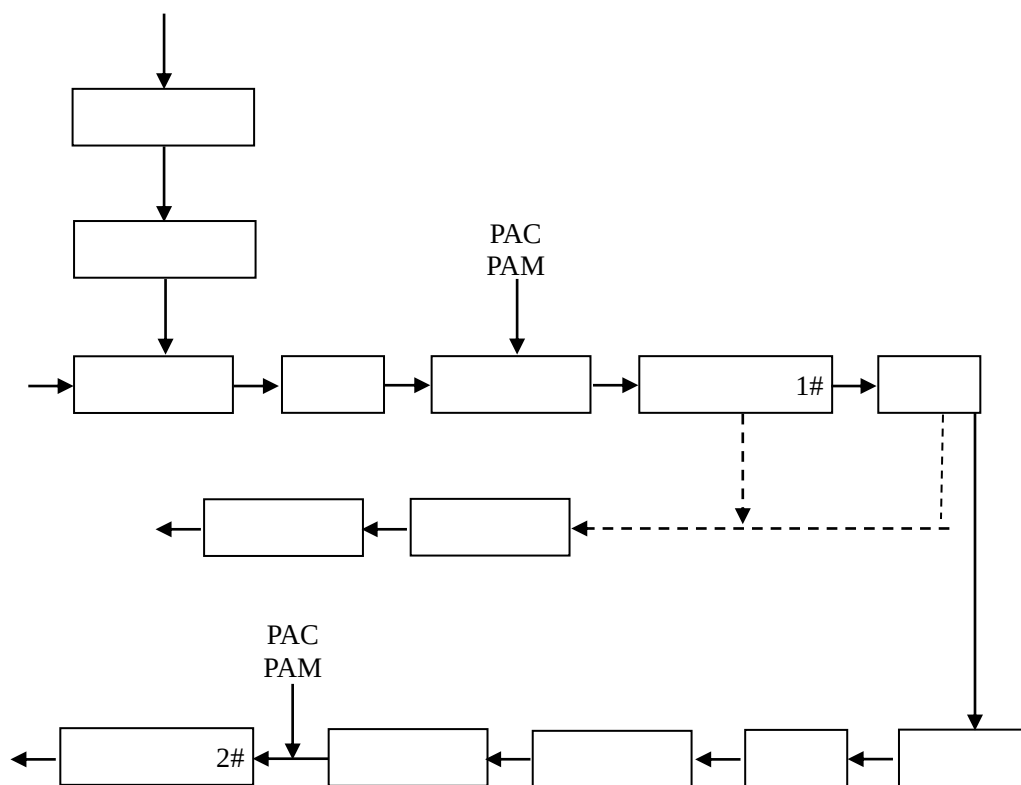
2.2.7.2.2

1000m<sup>3</sup>/d

“

+ + + ”

2.2-16



2.2-16

2022 2 -3

2.2-18

2.2-18

2022 2

|            | m <sup>3</sup> /d | COD <sub>Cr</sub> mg/L | mg/L | mg/L  |
|------------|-------------------|------------------------|------|-------|
| 2022-02-08 | 2054              | 26.4                   | 11.7 | 1.09  |
| 2022-02-09 | 1399              | 27.7                   | 15.3 | 1.24  |
| 2022-02-10 | 1602              | 50.3                   | 14.5 | 1.39  |
| 2022-02-11 | 1473              | 33.8                   | 15.4 | 1.53  |
| 2022-02-12 | 2354              | 23.9                   | 9.03 | 0.598 |

|                     |      |      |      |       |
|---------------------|------|------|------|-------|
| 2022-02-13          | 2551 | 26.9 | 11   | 0.888 |
| 2022-02-14          | 2026 | 24.1 | 6.88 | 0.653 |
| 2022-02-15          | 1854 | 28.6 | 5.69 | 0.641 |
| 2022-02-16          | 1728 | 20.1 | 5.96 | 0.464 |
| 2022-02-17          | 2183 | 30.8 | 11.6 | 0.931 |
| 2022-02-18          | 1820 | 28.2 | 11.7 | 1.02  |
| 2022-02-19          | 1520 | 20.1 | 8.46 | 0.794 |
| 2022-02-20          | 1424 | 19.4 | 6.95 | 0.655 |
| 2022-02-21          | 1878 | 22.7 | 5.38 | 0.585 |
| 2022-02-22          | 1965 | 15.8 | 6.68 | 0.721 |
| 2022-02-23          | 1706 | 25.4 | 6.69 | 0.596 |
| 2022-02-24          | 2149 | 29.5 | 6.68 | 0.613 |
| 2022-02-25          | 2172 | 43.2 | 7.69 | 0.786 |
| 2022-02-26          | 1907 | 46.6 | 7.75 | 0.815 |
| 2022-02-27          | 1999 | 46.3 | 8.25 | 0.876 |
| 2022-02-28          | 2021 | 28.1 | 4.17 | 0.606 |
| 2022-03-01          | 1340 | 28.1 | 6.94 | 0.833 |
| 2022-03-02          | 1967 | 31.1 | 5.53 | 0.665 |
| 2022-03-03          | 2399 | 35.3 | 5.06 | 0.598 |
| 2022-03-04          | 2284 | 30.3 | 5.3  | 0.596 |
| 2022-03-05          | 2280 | 35.2 | 5.84 | 0.54  |
| 2022-03-06          | 2273 | 24.8 | 4.51 | 0.4   |
| 2022-03-07          | 2255 | 31.7 | 5.34 | 0.607 |
| 2022-03-08          | 2131 | 25.1 | 7.89 | 0.6   |
|                     | 1956 | 29.6 | 8.06 | 0.77  |
|                     | 2551 | 50.3 | 15.4 | 1.53  |
|                     | 1340 | 15.8 | 4.17 | 0.4   |
| GB/T31962-2015<br>A | —    | 500  | 45   | 8     |
|                     | —    | 300  | 20   | 8     |

GB/T31962-2015 1A

2.2.7.2.3

21.890186 m<sup>3</sup>/a

COD<sub>Cr</sub>

29.6mg/L 15.4mg/L 1.53mg/L

21.890186 m<sup>3</sup>/aCOD<sub>Cr</sub>

19.4mg/L 0.253mg/L

0.202mg/L 8.61mg/L

4.247t/a 0.055t/a 0.044t/a 1.885t/a

2.2.7.3

2021 C210848-08 2021

9 27

2.2-17

2.2-19

2.2-19

|    |   | 2021 9 27 |       |
|----|---|-----------|-------|
|    |   | dB(A)     | dB(A) |
| 1# | 1 | 57.3      | 48.6  |
| 2# | 1 | 52.2      | 49.1  |
| 3# | 1 | 55.4      | 48.8  |
| 4# | 1 | 55.3      | 47.9  |
|    |   | 65        | 55    |



2.2-17

52.2~57.3dB(A)

47.9~49.1dB(A)

GB12348-2008 3



## 2.2.7.4

2.2-20~2.2-25

45000t/a      6      /

2.2-20

2.2-20

|  |  |  |    |      |  |
|--|--|--|----|------|--|
|  |  |  |    | t/a  |  |
|  |  |  | -- | 0.35 |  |



4.5

|  |    |  |                    |      |  |
|--|----|--|--------------------|------|--|
|  |    |  | HW12<br>900-253-12 | 0.02 |  |
|  |    |  | HW49<br>900-041-49 | 2    |  |
|  | UV |  | HW29<br>900-023-29 | 0.01 |  |
|  |    |  | --                 | 4.8  |  |

2.2-25

2.2-25

|     |    | t/a    |  |  |
|-----|----|--------|--|--|
|     |    |        |  |  |
|     |    | 0.27   |  |  |
|     |    | 6      |  |  |
|     |    | 31     |  |  |
|     |    | 15     |  |  |
|     |    | 69.943 |  |  |
|     |    | 142    |  |  |
|     |    | 206    |  |  |
|     |    | 0.16   |  |  |
|     |    | 7      |  |  |
|     |    | 32     |  |  |
| FDY | -- | 2      |  |  |
|     |    | 5t/4a  |  |  |
|     |    | 10t/4a |  |  |
|     |    | 0.45   |  |  |

2.2-20~2.2-25

2.2.8

2.2-26

2.2-26

|  |  |                   |           |
|--|--|-------------------|-----------|
|  |  |                   |           |
|  |  | m <sup>3</sup> /a | 101084.16 |
|  |  | t/a               | 3.619     |
|  |  | VOCs t/a          | 10.139    |

4.5

|     |                   |     |           |
|-----|-------------------|-----|-----------|
|     |                   | t/a | 1.955     |
|     |                   | t/a | 0.212     |
|     |                   | t/a | 0.497     |
|     |                   | t/a |           |
|     |                   | t/a |           |
|     |                   | t/a |           |
|     | m <sup>3</sup> /a |     | 218901.86 |
|     | COD <sub>Cr</sub> | t/a | 4.247     |
|     |                   | t/a | 0.055     |
|     |                   | t/a | 0.044     |
|     |                   | t/a | 1.885     |
| t/a |                   |     | 0         |

2.2.9

2.3

2.3.1

2.3.2

2.3-1

2.3-1

|  |   |        |  |
|--|---|--------|--|
|  |   |        |  |
|  | 6 | 20000t |  |

2.3.3

2.3-2

2.3-2

|  |   |                   |
|--|---|-------------------|
|  |   |                   |
|  |   | 2                 |
|  | 1 |                   |
|  | — |                   |
|  | 1 | 2.0m <sup>3</sup> |

4.5

|  |  |                    |                   |
|--|--|--------------------|-------------------|
|  |  | 1                  | 2.0m <sup>3</sup> |
|  |  |                    |                   |
|  |  |                    |                   |
|  |  |                    |                   |
|  |  |                    |                   |
|  |  |                    | 1                 |
|  |  | 15m P7-1           |                   |
|  |  | 25m P7-2           |                   |
|  |  | 35m P7-3 P7-4 P7-5 |                   |
|  |  | 35m P7-6 P7-7      |                   |
|  |  | 15m P7-8           |                   |
|  |  |                    |                   |
|  |  |                    |                   |
|  |  |                    | 759m <sup>3</sup> |

2.3.4

2.2-2

2.3.5

2 45000t/a

6 /

2.2-4 3 4

2.3.6

2.3.6.1

2.3.6.1.1

G6-11

|       |       |       |       |
|-------|-------|-------|-------|
| G6-12 | G6-13 | G6-14 | G6-15 |
| G6-16 |       | G6-17 |       |
|       |       | 2.3-3 | 2.3-4 |

2.3-3

|   |       |                    |
|---|-------|--------------------|
|   |       |                    |
| 1 | G6-11 | 1 15m P6-1         |
| 2 | G6-12 |                    |
| 3 | G6-13 | 25m P6-2           |
| 4 | G6-14 | P6-4 P6-5 35m P6-3 |
| 5 | G6-15 | 35m P6-6           |
| 6 | G6-16 | 35m P6-7           |
| 7 | G6-17 | 15m P6-8           |

2.3-4

|               |      |                   |                        |         |                   |                        |          | m<br>m |
|---------------|------|-------------------|------------------------|---------|-------------------|------------------------|----------|--------|
|               |      | mg/m <sup>3</sup> | kg/h                   | t/a     | mg/m <sup>3</sup> | kg/h                   | t/a      |        |
| G6-11         |      | 2.03              | 0.0047                 | 0.039   | 0.609             | 0.0014                 | 0.0117   | 15/0.3 |
| G6-12         |      | 0.203             | 0.00047                | 0.0039  | 0.061             | 0.00014                | 0.0012   |        |
|               |      | 0.001             | 2.34×10 <sup>-6</sup>  | 0.00002 | 0.0003            | 7.02×10 <sup>-7</sup>  | 0.000006 |        |
| P6-1          |      | 0.707             | 1.63×10 <sup>-3</sup>  | 0.0137  | 0.212             | 4.88×10 <sup>-4</sup>  | 0.0041   |        |
|               |      | 0.017             | 3.96×10 <sup>-5</sup>  | 0.0003  | 0.005             | 1.19×10 <sup>-5</sup>  | 0.0001   |        |
| G6-13<br>P6-2 |      | 3.03              | 1.635×10 <sup>-2</sup> | 0.137   | 0.303             | 1.635×10 <sup>-3</sup> | 0.0137   | 25/0.3 |
|               |      | 72                | 0.39                   | 3.276   | 7.2               | 0.039                  | 0.3276   |        |
|               | VOCs | 22                | 0.12                   | 1.008   | 2.2               | 0.012                  | 0.1008   |        |
|               |      | 0.17              | 8.99×10 <sup>-4</sup>  | 0.008   | 0.017             | 8.99×10 <sup>-5</sup>  | 0.0008   |        |
|               |      | 1.03              | 5.58×10 <sup>-3</sup>  | 0.047   | 0.103             | 5.58×10 <sup>-4</sup>  | 0.0047   |        |
|               |      | 2.96              | 1.596×10 <sup>-2</sup> | 0.134   | 0.296             | 1.596×10 <sup>-3</sup> | 0.0134   |        |
|               |      | 0.79              | 4.27×10 <sup>-3</sup>  | 0.036   | 0.079             | 4.27×10 <sup>-4</sup>  | 0.0036   |        |
|               |      | 0.11              | 5.95×10 <sup>-4</sup>  | 0.005   | 0.011             | 5.95×10 <sup>-5</sup>  | 0.0005   |        |
| G6-14         |      | 2.59              | 0.0207                 | 0.174   | 0.259             | 2.07×10 <sup>-3</sup>  |          |        |

|                      |      |       |                       |       |       |                       |        |  |
|----------------------|------|-------|-----------------------|-------|-------|-----------------------|--------|--|
| P6-3<br>P6-4<br>P6-5 |      | 97.5  | 0.78                  | 6.552 | 9.75  | 0.078                 | 0.6552 |  |
|                      | VOCs | 16.25 | 0.13                  | 1.092 | 1.625 | 0.013                 | 0.1092 |  |
|                      |      | 0.43  | $3.41 \times 10^{-3}$ | 0.029 | 0.043 | $3.41 \times 10^{-4}$ | 0.0029 |  |
|                      |      | 1.12  | $8.96 \times 10^{-3}$ | 0.075 | 0.112 | $8.96 \times 10^{-4}$ | 0.0075 |  |
|                      |      | 0.68  | $5.44 \times 10^{-3}$ | 0.046 | 0.068 | $5.44 \times 10^{-4}$ | 0.0046 |  |

|     |                 |
|-----|-----------------|
| 4.5 |                 |
| 6   | DB37/801.6-2018 |

1

2.3.6.1.2

|            |           |               |           |           |
|------------|-----------|---------------|-----------|-----------|
|            |           |               |           | 0.1003t/a |
| 0.00003t/a | 2.1883t/a | VOCs0.5642t/a | 0.0113t/a | 0.0501t/a |
| 0.1208t/a  | 0.0109t/a |               |           |           |

GB14554-93 1

GB16297-1996 2 VOCs

6

DB37/801.6-2018 3

2.3.6.2

2.3-5

2.3-5

|  | t/a      | mg/L              |                  |    |      |
|--|----------|-------------------|------------------|----|------|
|  |          | COD <sub>Cr</sub> | BOD <sub>5</sub> |    |      |
|  | 5489.77  | 200               | 100              | 15 | --   |
|  | 4200     | 100               | 60               | 5  | 1000 |
|  | 840      | 60                | 20               | 5  | 2000 |
|  | 1260     | 500               | 350              | 5  | --   |
|  | 2016     | 350               | 250              | 30 | --   |
|  | 13805.77 |                   |                  |    |      |

13805.77t/a COD<sub>Cr</sub> 2.9t/a 0.17t/a

GB/T31962-2015 1A

GB18918-2002 A



|                               |                   |                   |
|-------------------------------|-------------------|-------------------|
| 4.5                           |                   |                   |
| [2017]5                       | COD <sub>Cr</sub> | NH <sub>3</sub> - |
| 13805.77t/a COD <sub>Cr</sub> |                   |                   |
| 0.55t/a                       | 0.028t/a          |                   |
| 2.3.6.3                       |                   |                   |
|                               |                   | 2.3-6             |
| 2.3-6                         |                   |                   |
|                               |                   | t/a               |

4.5

|  |                       |             |          |    |
|--|-----------------------|-------------|----------|----|
|  |                       | t/a         | 2.3049   |    |
|  |                       | t/a         | 0.0111   |    |
|  |                       | t/a         | 0.117    |    |
|  |                       | t/a         | 0.0001   |    |
|  |                       | VOCs<br>t/a | 0.6086   |    |
|  |                       | t/a         | 0.0109   |    |
|  |                       | t/a         | 0.0498   |    |
|  |                       | t/a         | 0.1257   |    |
|  |                       | t/a         | 2.1883   | -- |
|  |                       | t/a         | 0.0109   |    |
|  |                       | t/a         | 0.1003   |    |
|  |                       | t/a         | 0.00003  |    |
|  |                       | VOCs t/a    | 0.5642   |    |
|  |                       | t/a         | 0.0113   |    |
|  |                       | t/a         | 0.0501   |    |
|  |                       | t/a         | 0.1208   |    |
|  | t/a                   |             | 13805.77 |    |
|  | COD <sub>Cr</sub> t/a |             | 0.55     |    |
|  | t/a                   |             | 0.028    |    |
|  | t/a                   |             | 0        |    |

## 2.4

## 2.4.1

2 × 130t/h

5

2 × 130t/h

2 × 24MW

3 × 130t/h

5 × 130t/h

2.1-1

2001

2

130t/h

+2 24MW

2 130t/h

+1 50MW

1# 2#

3# 4# 2004

[2002]85

[2004]26 2004 10

[2008]38

1# 2#

2008 9

[2008]200 2010

9 [2010]141

2008 4 130t/h 2

2 1# 2#

95% 2010 1

2011 5# 2011 12

2014 10

2015 1# 2# 2015 5

[2015]16

2016 5

[2015]16

1# 2# 2016

11 2016 12

2017 2017 5

2.4.2

2.4-1

2.4-1

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|--|--|--|--|

|                                                                                                                                                                          |     |                                     |                                                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------------------------|-------------------------------------------------------------------|
| <div> <div>2 × 130t/h</div> <div>5</div> <div>2 × 130t/h</div> <div>2 ×</div> </div> <div>24MW</div> <div> <div>130t/h</div> <div>5 × 130t/h</div> <div>3 ×</div> </div> |     | <div>312 t/a</div> <div>58800</div> | <div>5 × 130t/h</div> <div>5</div> <div>2 ×</div> <div>24MW</div> |
|                                                                                                                                                                          | EPS | 20 m³/a                             | --                                                                |

## 2.4-2

|  |  |                                                                                  |
|--|--|----------------------------------------------------------------------------------|
|  |  |                                                                                  |
|  |  | 5 × 130t/h                          1    50MW                          2    24MW |
|  |  | 1                          1                                                     |
|  |  | 2                                                                                |
|  |  | 1                                                                                |
|  |  | 4                                                                                |
|  |  | 1                                                                                |
|  |  | 1                                                                                |
|  |  | 1                                                                                |
|  |  |                                                                                  |
|  |  |                                                                                  |
|  |  |                                                                                  |
|  |  |                                                                                  |

4.5

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|  |  |  |  |

2.4.4

2

2.4-1

2.4.5

2.4.5.1

1

3311.6m<sup>3</sup>/a

2

50m<sup>3</sup>/d

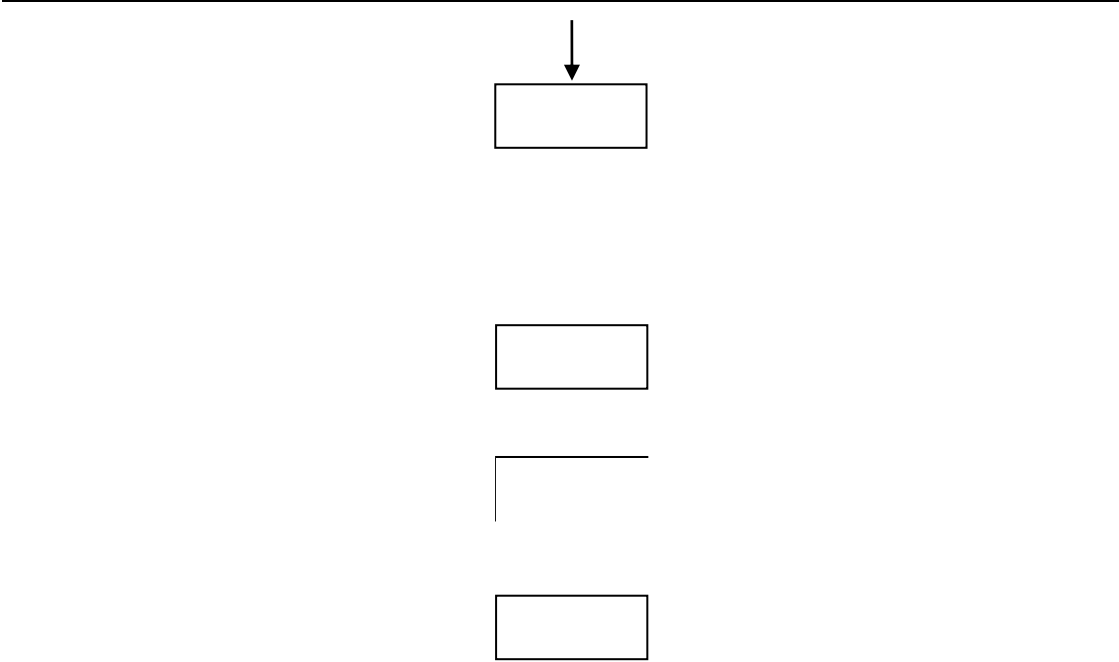
2.4.5.2











2.4-3

2.4.7

2.4.7.1

2.4.7.1.1

|       |   |                 |                 |   |       |   |      |  |   |
|-------|---|-----------------|-----------------|---|-------|---|------|--|---|
|       |   | 5               | 130t/h          |   |       |   |      |  |   |
|       |   | SO <sub>2</sub> | NO <sub>x</sub> |   | +SNCR |   |      |  | + |
|       | + |                 | +               | + |       | 1 | 150m |  |   |
| DA001 |   |                 |                 |   |       |   |      |  |   |
|       | “ | +               | +UV             | + | ”     | 1 | 15m  |  |   |

|       |  |                 |                 |      |   |       |  |  |  |
|-------|--|-----------------|-----------------|------|---|-------|--|--|--|
|       |  | SO <sub>2</sub> | NO <sub>x</sub> |      |   |       |  |  |  |
|       |  | 2022            | 2-3             |      |   | 2.4-3 |  |  |  |
| 2.4-3 |  |                 |                 | 2022 | 2 |       |  |  |  |

## 4.5

|            | mg/m <sup>3</sup> |      | mg/m <sup>3</sup> |      | mg/m <sup>3</sup> |      | m <sup>3</sup> /h |      |
|------------|-------------------|------|-------------------|------|-------------------|------|-------------------|------|
|            |                   |      |                   |      |                   |      |                   |      |
| 2022-02-01 | 8.26              | 17.6 | 17.3              | 37   | 0.631             | 1.35 | 188554            | 39.1 |
| 2022-02-02 | 7.57              | 14.4 | 18.7              | 35.6 | 0.692             | 1.31 | 206427            | 41.2 |
| 2022-02-03 | 4.31              | 8.15 | 17.3              | 32.6 | 0.671             | 1.27 | 212336            | 41.7 |
| 2022-02-04 | 4.47              | 8.51 | 16.9              | 32.1 | 0.67              | 1.28 | 205347            | 41   |
| 2022-02-05 | 6.94              | 13.3 | 18.5              | 35.1 | 0.697             | 1.33 | 209894            | 41.1 |
| 2022-02-06 | 7.88              | 14.8 | 18.9              | 35.7 | 0.811             | 1.53 | 281169            | 43.1 |
| 2022-02-07 | 8.06              | 13.9 | 21.9              | 37.7 | 0.871             | 1.5  | 279381            | 47.8 |
| 2022-02-08 | 9.47              | 15.4 | 22.3              | 36.3 | 0.952             | 1.54 | 291612            | 45   |
| 2022-02-09 | 9.38              | 15.4 | 21.1              | 34.5 | 0.859             | 1.41 | 279320            | 45.1 |
| 2022-02-10 | 7.04              | 11.7 | 21.2              | 35.1 | 0.762             | 1.26 | 247916            | 45.6 |
| 2022-02-11 | 5.76              | 11.1 | 17.6              | 34.4 | 0.65              | 1.31 | 250690            | 42.4 |
| 2022-02-12 | 6.75              | 12.2 | 18.9              | 34.6 | 0.757             | 1.38 | 254021            | 42.9 |
| 2022-02-13 | 6.39              | 11.5 | 18.9              | 34.3 | 0.739             | 1.34 | 252152            | 43.1 |
| 2022-02-14 | 5.58              | 10.3 | 18.8              | 35   | 0.688             | 1.28 | 262152            | 42.3 |
| 2022-02-15 | 7.12              | 12.8 | 18.4              | 33.3 | 0.812             | 1.47 | 286572            | 41.6 |
| 2022-02-16 | 8.39              | 14.6 | 19.2              | 33.5 | 0.817             | 1.42 | 302780            | 42   |
| 2022-02-17 | 9.53              | 16.6 | 20.7              | 36.2 | 0.816             | 1.42 | 310628            | 41.9 |
| 2022-02-18 | 10                | 16.9 | 21.3              | 36   | 0.825             | 1.4  | 291227            | 43.2 |
| 2022-02-19 | 10.2              | 17.2 | 21.7              | 36.8 | 0.827             | 1.4  | 311221            | 43.1 |
| 2022-02-20 | 10                | 17.1 | 20.9              | 35.8 | 0.823             | 1.41 | 309019            | 42.7 |
| 2022-02-21 | 11                | 17.7 | 22.4              | 36   | 0.834             | 1.34 | 302413            | 43.8 |
| 2022-02-22 | 11.4              | 18.1 | 21.8              | 34.6 | 0.837             | 1.33 | 308136            | 44.7 |

2021 101911 2021 10 19

2.4-4

2.4-4

|       |  |            |   | m³/h   | mg/m³ | mg/m³ | kg/h    |
|-------|--|------------|---|--------|-------|-------|---------|
| DA001 |  | 2021.10.13 | 1 | 212472 | 20.7  | 34.98 | 0.0044  |
|       |  |            | 2 | 232366 | 23.2  | 39.44 | 0.00539 |
|       |  |            | 3 | 240790 | 23.2  | 39.44 | 0.00559 |
|       |  |            | 1 | 212472 | 1.23  | 2.08  | 0.26    |
|       |  |            | 2 | 232366 | 1.23  | 2.09  | 0.29    |
|       |  |            | 3 | 240790 | 1.21  | 2.06  | 0.29    |
|       |  |            | 1 | 1      |       |       |         |

2.4-3

2.4-4

DB37/664 2019 2

5mg/m<sup>3</sup> 35mg/m<sup>3</sup> 50mg/m<sup>3</sup> 0.03mg/m<sup>3</sup>

1

HJ2301-2017

8mg/m<sup>3</sup>

277140m<sup>3</sup>/h 242774.64 m<sup>3</sup>/a

20.88t/a

49.28t/a

1.92t/a

2020

2020

67% 2019.11.30 66%

2019.12.01

2.4-5

2.4-4

|  |  |  |  | m <sup>3</sup> /h | mg/m <sup>3</sup> | kg/h |  |
|--|--|--|--|-------------------|-------------------|------|--|

|       |  |                |   |      |      |                       |
|-------|--|----------------|---|------|------|-----------------------|
| DA002 |  | 2019.<br>11.30 | 1 | 7895 |      | $5.92 \times 10^{-6}$ |
|       |  |                | 2 | 9322 |      | $6.99 \times 10^{-6}$ |
|       |  |                | 3 | 9684 |      | $7.26 \times 10^{-6}$ |
|       |  |                | 1 | 7895 |      | $5.92 \times 10^{-6}$ |
|       |  |                | 2 | 9322 |      | $6.99 \times 10^{-6}$ |
|       |  |                | 3 | 9684 |      | $7.26 \times 10^{-6}$ |
|       |  |                | 1 | 7895 |      | $5.92 \times 10^{-6}$ |
|       |  |                | 2 | 9322 |      | $6.99 \times 10^{-6}$ |
|       |  |                | 3 | 9684 |      | $7.26 \times 10^{-6}$ |
|       |  |                | 1 | 7895 | 1.88 | 0.014                 |
|       |  |                | 2 | 9322 | 2.30 | 0.021                 |

2.4-5

2.4-5

t/a      t/a      t/a      t/a      kg/a      kg/a      kg/a



2.4-4 1



2.4-4 2

## 2.4-6 1

|  | 2021.12.15 |                   |                   |                   |
|--|------------|-------------------|-------------------|-------------------|
|  |            | mg/m <sup>3</sup> | mg/m <sup>3</sup> | mg/m <sup>3</sup> |
|  |            | 0.04              | 0.215             | —                 |
|  |            | 0.06              | 0.199             | —                 |
|  |            | 0.05              | 0.234             | —                 |
|  |            | 0.07              | 0.316             | —                 |
|  |            | 0.07              | 0.283             | —                 |
|  |            | 0.06              | 0.269             | —                 |
|  |            | 0.08              | 0.299             | —                 |
|  |            | <b>0.10</b>       | 0.286             | —                 |
|  |            | 0.08              | <b>0.318</b>      | —                 |
|  |            | 0.07              | 0.233             | —                 |
|  |            | 0.08              | 0.267             | —                 |
|  |            | 0.07              | 0.250             | —                 |
|  |            | —                 | —                 | 1.63              |
|  |            | —                 | —                 | 1.75              |
|  |            | —                 | —                 | 1.78              |
|  |            | 0.10              | 0.059             | 1.78              |
|  |            | 1.5               | 1.0               | 厂界 2.0(厂区内 6)     |
|  |            |                   |                   |                   |

## 2.4-6 2

|  | 2019.11.30 |                   |                   |                   |                   |
|--|------------|-------------------|-------------------|-------------------|-------------------|
|  |            | mg/m <sup>3</sup> | mg/m <sup>3</sup> | mg/m <sup>3</sup> | mg/m <sup>3</sup> |
|  |            | 0.53              |                   |                   |                   |
|  |            | 0.54              |                   |                   |                   |
|  |            | 0.54              |                   |                   |                   |
|  |            | 0.49              |                   |                   |                   |
|  |            | 0.86              |                   |                   |                   |
|  |            | 1.21              |                   |                   |                   |
|  |            | 1.01              |                   |                   |                   |
|  |            | 1.03              |                   |                   |                   |
|  |            | 1.78              |                   |                   |                   |
|  |            | 1.54              |                   |                   |                   |
|  |            | 1.48              |                   |                   |                   |
|  |            | 1.49              |                   |                   |                   |
|  |            | 1.33              |                   |                   |                   |

4.5

|  |            |                   |                   |                   |                   |
|--|------------|-------------------|-------------------|-------------------|-------------------|
|  |            | 1.31              |                   |                   |                   |
|  |            | 1.37              |                   |                   |                   |
|  |            | 1.11              |                   |                   |                   |
|  | 2019.11.30 |                   |                   |                   |                   |
|  |            | mg/m <sup>3</sup> | mg/m <sup>3</sup> | mg/m <sup>3</sup> | mg/m <sup>3</sup> |
|  |            | 0.54              |                   |                   |                   |
|  |            | 0.53              |                   |                   |                   |
|  |            | 0.47              |                   |                   |                   |
|  |            | 0.46              |                   |                   |                   |
|  |            | 0.79              |                   |                   |                   |
|  |            | 0.79              |                   |                   |                   |
|  |            | 0.92              |                   |                   |                   |
|  |            | 0.5               |                   |                   |                   |
|  |            | 0.94              |                   |                   |                   |
|  |            | 0.93              |                   |                   |                   |
|  |            | 0.96              |                   |                   |                   |
|  |            | 0.99              |                   |                   |                   |
|  |            | 1.64              |                   |                   |                   |
|  |            | 1.55              |                   |                   |                   |
|  |            | <b>1.68</b>       |                   |                   |                   |
|  |            | <b>1.68</b>       |                   |                   |                   |
|  |            | 1.68              |                   |                   |                   |
|  |            | 2.0               | 0.1               |                   |                   |



4.5

|            |  |     |   |     |        |     |
|------------|--|-----|---|-----|--------|-----|
| 2019.11.30 |  | 8.6 | E | 0.9 | 102.38 | 2/5 |
|            |  | 8.6 | E | 0.9 | 102.38 | 2/5 |
|            |  | 9.3 | E | 0.7 | 102.38 | 2/5 |
|            |  | 9.3 | E | 0.7 | 102.38 | 1/5 |
| 2019.12.01 |  | 6.7 | E | 0.9 | 100.93 | 2/5 |
|            |  | 6.7 | E | 0.9 | 100.93 | 2/5 |
|            |  | 7.3 | E | 1.0 | 102.97 | 1/5 |
|            |  | 7.3 | E | 1.0 | 102.97 | 1/5 |

2.4-6

GB16297-1996

2

GB14554-93

1

VOCs

6

DB37/801.6-2018

3

VOCs

GB

37822—2019

A.1

VOCs

2.4.7.2

3311.6m<sup>3</sup>/a

2022

C220190

2022

1

21

2.4-8

2.4-8

2022

1

|  |  |    |                   |  |  |  |
|--|--|----|-------------------|--|--|--|
|  |  | pH | COD <sub>Cr</sub> |  |  |  |
|--|--|----|-------------------|--|--|--|

|                  | m <sup>3</sup> /d |         | mg/L | mg/L | mg/L | mg/L |
|------------------|-------------------|---------|------|------|------|------|
| 2022.1.21        | 60                | 6.8     | 8    |      | 0.02 | 0.11 |
|                  |                   | 7.0     | 11   |      | 0.02 | 0.14 |
|                  |                   | 6.8     | 10   |      | 0.02 | 0.18 |
| GB/T31962-2015 A | —                 | 6.5-9.5 | 500  | 45   | 8    | 100  |
|                  | —                 | 6.5-9.5 | 300  | 20   | 8    | —    |
|                  | mg/L              | mg/L    | mg/L | mg/L | mg/L | mg/L |
| 2022.1.21        | 22                |         | 1.41 | 928  | 0.22 |      |
|                  | 20                |         | 1.30 | 906  | 0.22 |      |
|                  | 24                |         | 1.46 | 916  | 0.19 |      |

4.5

|    |   | dB(A) | dB(A) |
|----|---|-------|-------|
| 1# | 1 | 55.1  | 49.0  |

4.5

|  |  |  |                    |       |  |
|--|--|--|--------------------|-------|--|
|  |  |  | HW29<br>900-023-29 | 0.03  |  |
|  |  |  | HW08<br>900-218-08 | 0.085 |  |

2.4-10

2.4.8

2.4-11

2.4-11

|     |                       |          |           |
|-----|-----------------------|----------|-----------|
|     |                       |          |           |
|     |                       | m³/a     | 247155.84 |
|     |                       | t/a      | 20.88     |
|     |                       | t/a      | 49.28     |
|     |                       | t/a      | 1.92      |
|     |                       | kg/a     | 0.0027    |
|     |                       | kg/a     | 0.0027    |
|     |                       | kg/a     | 0.0027    |
|     |                       | VOCs t/a | 3.577     |
|     |                       | kg/a     | 0.0027    |
|     | m³/a                  |          | 21900     |
|     | COD <sub>Cr</sub> t/a |          | 0.212     |
|     | t/a                   |          | 0.0004    |
| t/a |                       |          | 0         |

2.4.9

3

3.1

10

15

37

3

2

2~3

1

4~5

5000

4~5

3

2018

8

4.5%-5%

100

8

20

30

2

880

3.2

3.2.1

4.5

2.1-1

1

1

1

1

1

6

3

t

6

4.5

t

100000

54

30

24

8

350d

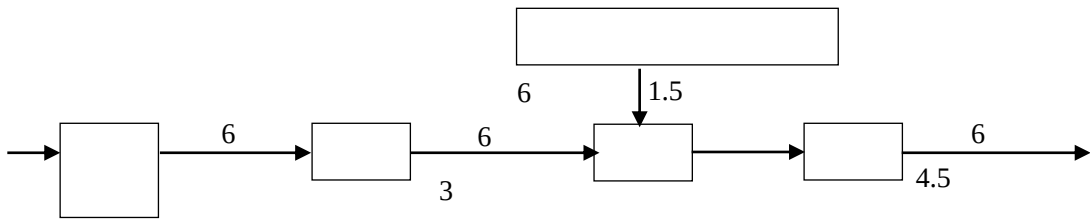
8400h

3.2.2

3.2-1

3.2-2

3.2-1



3.2-1

3.2-2            6

|                                                                                                                                                                                                                 |  |       | /(dtex/          |                |                |                |                |                |                |                |                |                |                |                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|                                                                                                                                                                                                                 |  |       | 2100/2           |                | 1870/2         |                | 1400/3         |                | 1400/2         |                |                | 930/2          |                |                |
|                                                                                                                                                                                                                 |  |       | V <sub>1</sub>   | V <sub>2</sub> | V <sub>1</sub> | V <sub>2</sub> | V <sub>1</sub> | V <sub>2</sub> | V <sub>1</sub> | V <sub>2</sub> | V <sub>3</sub> | V <sub>1</sub> | V <sub>2</sub> | V <sub>3</sub> |
| 1                                                                                                                                                                                                               |  | /10cm | 88               | 74             | 88             | 74             | 88             | 74             | 100            | 74             | 52             | 126            | 94             | 60             |
| 2                                                                                                                                                                                                               |  |       | 92               | 78             | 92             | 78             | 92             | 78             | 105            | 78             | 55             | 130            | 98             | 64             |
| 3                                                                                                                                                                                                               |  |       | 8                | 10             | 8              | 10             | 8              | 10             | 8              | 10             | 16             | 10             | 12             | 14             |
| 4                                                                                                                                                                                                               |  | tex   | 28~30            |                |                |                |                |                |                |                |                |                |                |                |
| 5                                                                                                                                                                                                               |  | m     | L±2%             |                |                |                |                |                |                |                |                |                |                |                |
| 6                                                                                                                                                                                                               |  | cm    | 145±3            |                |                |                |                |                |                |                |                |                |                |                |
| 7                                                                                                                                                                                                               |  |       | 2~10 28tex-30tex |                |                |                |                |                |                |                |                |                |                |                |
|                                                                                                                                                                                                                 |  | /10cm | 42~45            |                |                |                |                |                |                |                |                |                |                |                |
|                                                                                                                                                                                                                 |  | cm    | 10               |                |                |                |                |                |                |                |                |                |                |                |
| L 2100dtex/2 1200m 1400dtex/3 930dtex/2-V <sub>1</sub> V <sub>2</sub> 1100m 1870dtex/2 1280m 1400dtex/2-V <sub>1</sub> V <sub>2</sub> 1310m 1400dtex/2-V <sub>3</sub> 1160m 930dtex/2-V <sub>3</sub> 2200m 720m |  |       |                  |                |                |                |                |                |                |                |                |                |                |                |

3.2.3

3.2-3

4.5

( )

|  |  |   |   |
|--|--|---|---|
|  |  |   |   |
|  |  | 1 | 6 |
|  |  | 1 | 1 |

1 1



|  |  |                                                                                                               |  |
|--|--|---------------------------------------------------------------------------------------------------------------|--|
|  |  |                                                                                                               |  |
|  |  | <p>P1</p> <p>30m</p> <p>25m P2</p> <p>1</p> <p>35m P3</p> <p>36m P4</p> <p>浸胶</p> <p>38m P5</p> <p>37m P6</p> |  |
|  |  |                                                                                                               |  |
|  |  |                                                                                                               |  |

3.2-3

|  |  |                         |  |
|--|--|-------------------------|--|
|  |  |                         |  |
|  |  | 1 1 10000m <sup>2</sup> |  |
|  |  | 1 6 19008m <sup>2</sup> |  |
|  |  | 1                       |  |
|  |  | 8t/h                    |  |
|  |  | 1 4 1                   |  |
|  |  | 1 20m <sup>2</sup>      |  |

|     |   |                   |  |
|-----|---|-------------------|--|
| 4.5 |   |                   |  |
|     | 1 | 2.0m <sup>3</sup> |  |

|   |   |                |                         |
|---|---|----------------|-------------------------|
|   |   |                |                         |
| 1 | 6 | t/a            | 30000                   |
|   | 6 | t/a            | 15000                   |
| 2 | 6 | t/a            | 30000                   |
|   |   | d/a            | 350                     |
|   |   |                | 500                     |
|   |   |                | 270 230                 |
|   |   | m <sup>2</sup> | 49444<br>36276<br>13168 |
|   |   |                | 45000                   |
|   |   | /              | 132750                  |
|   |   | /              | 114272.08               |
|   |   | /              | 15000.83                |
|   |   | /              | 3750.21                 |
|   |   | /              | 11250.62                |
|   |   | %              | 33.34                   |
|   |   | %              | 25.49                   |
|   |   |                | 31592.78                |
|   |   |                | 3.9                     |
|   |   | %              | 31.97                   |

## 3.2.5

## 3.2.5.1

## 3.2-5

## 3.2-5 1

|   |             |                       |      |                |         |  |
|---|-------------|-----------------------|------|----------------|---------|--|
|   |             | t/a                   | t    |                |         |  |
| 1 |             | 35105                 | 1810 | 99.98%         | 25kg/   |  |
| 2 | FDY         | 350                   | 15   | TF-6<br>HQ-699 | 180kg/  |  |
| 3 | DNP/A\B\C\D | 5.5 DNP<br>49 A\B\C\D | 5    | --             | 25kg/   |  |
| 4 |             |                       | 0.4  | 99%            | 400kg/  |  |
| 5 |             | 1198                  | 60   | 40.5%          | 1000kg/ |  |
| 6 |             | 300                   | 20   | 40.5%          | 1000kg/ |  |
| 7 |             | 70                    | 6    | 99.8%          | 25kg/   |  |
| 8 |             | 108                   | 0.93 | 37%            | 180kg/  |  |

|    |  |      |      |        |         |  |
|----|--|------|------|--------|---------|--|
| 9  |  | 70   | 1.1  | 20~25% | 180kg/  |  |
| 10 |  | 2.2  | 1    | 99%    | 25kg/   |  |
|    |  |      |      |        |         |  |
| 1  |  | 1198 | 60   | 40.5%  | 1000kg/ |  |
| 2  |  | 300  | 20   | 40.5%  | 1000kg/ |  |
| 3  |  | 70   | 6    | 99.8%  | 25kg/   |  |
| 4  |  | 108  | 0.93 | 37%    | 180kg/  |  |
| 5  |  | 70   | 1.1  | 20~25% | 180kg/  |  |
| 6  |  | 2.2  | 1    | 99%    | 25kg/   |  |

## 3.2-5 2

|   |         |                                   |
|---|---------|-----------------------------------|
|   |         |                                   |
| 1 | DNP     | N,N'- -                           |
| 2 | A\B\C\D | 2~ / / BBM 4 4'-<br>6- -3- / TMTD |
| 3 | FDY     |                                   |
| 4 |         | - -5                              |

3.2-1

3.2.6.2

1

2

3

SSW

3.2.7

3.2-7

3.2-7

|   |  |                     |    |  |
|---|--|---------------------|----|--|
|   |  |                     |    |  |
| 1 |  |                     | 1  |  |
| 2 |  |                     | 1  |  |
| 3 |  | N-170/98            | 1  |  |
| 4 |  |                     | 1  |  |
| 5 |  | STC                 | 31 |  |
| 6 |  | LTP-R54E4E4<br>CL51 | 2  |  |
| 7 |  | ø4200*19300         | 1  |  |
| 8 |  | ASC-23F             | 1  |  |

|    |  |            |    |  |
|----|--|------------|----|--|
| 9  |  |            | 1  |  |
| 10 |  |            | 1  |  |
| 11 |  |            | 1  |  |
| 12 |  |            | 2  |  |
| 13 |  |            | 1  |  |
| 14 |  | ZAX9200iTC | 20 |  |
| 15 |  | TZJB       | 20 |  |
| 16 |  | ASG700     | 6  |  |
| 17 |  | K3503F     | 36 |  |
| 18 |  |            | 6  |  |
| 19 |  |            | 8  |  |
| 20 |  | OP425      | 24 |  |
|    |  | VP300L     | 24 |  |
| 21 |  |            | 1  |  |

140-150

24-36h

18

90 左右

18

90 左右

2

2

1

20Mpa

$G_1$  $G_2$ 

2

2

270-290



4

S<sub>3</sub>

3

S<sub>4</sub>

4

20~3

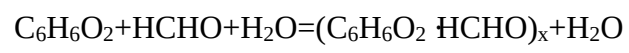
45 ~50

85

95

20~30

- 1.3~2.3



pH 25

G<sub>6</sub>

G<sub>7</sub>

1

1 15m

P3

G<sub>8</sub>

25m

P4

110-140

110-140

200

200

G14

G15 G16

G14 G15 G16

35m

P12 P13 P14 P15 P16

S10

S12

3.3-2

3.3.8

3.3-3

3.3-4

3.3.9

3.3.9.1

1

5m<sup>3</sup>/d1750m<sup>3</sup>/a4m<sup>3</sup>/d 1400m<sup>3</sup>/a

2

7.2m<sup>3</sup>/d 2520m<sup>3</sup>/a9.6m<sup>3</sup>/d 3360m<sup>3</sup>/a14.4m<sup>3</sup>/d 5040m<sup>3</sup>/a19.2m<sup>3</sup>/d 6720m<sup>3</sup>/a

3

40m<sup>3</sup>/h 336000m<sup>3</sup>/a

3%

1.2m<sup>3</sup>/h 28.8m<sup>3</sup>/d 10080m<sup>3</sup>/a50m<sup>3</sup>/h 420000m<sup>3</sup>/a

3%

1.5m<sup>3</sup>/h 36m<sup>3</sup>/d 12600m<sup>3</sup>/a

4

5.8m<sup>3</sup>/d 2030m<sup>3</sup>/a

9.9m<sup>3</sup>/d 3465m<sup>3</sup>/a

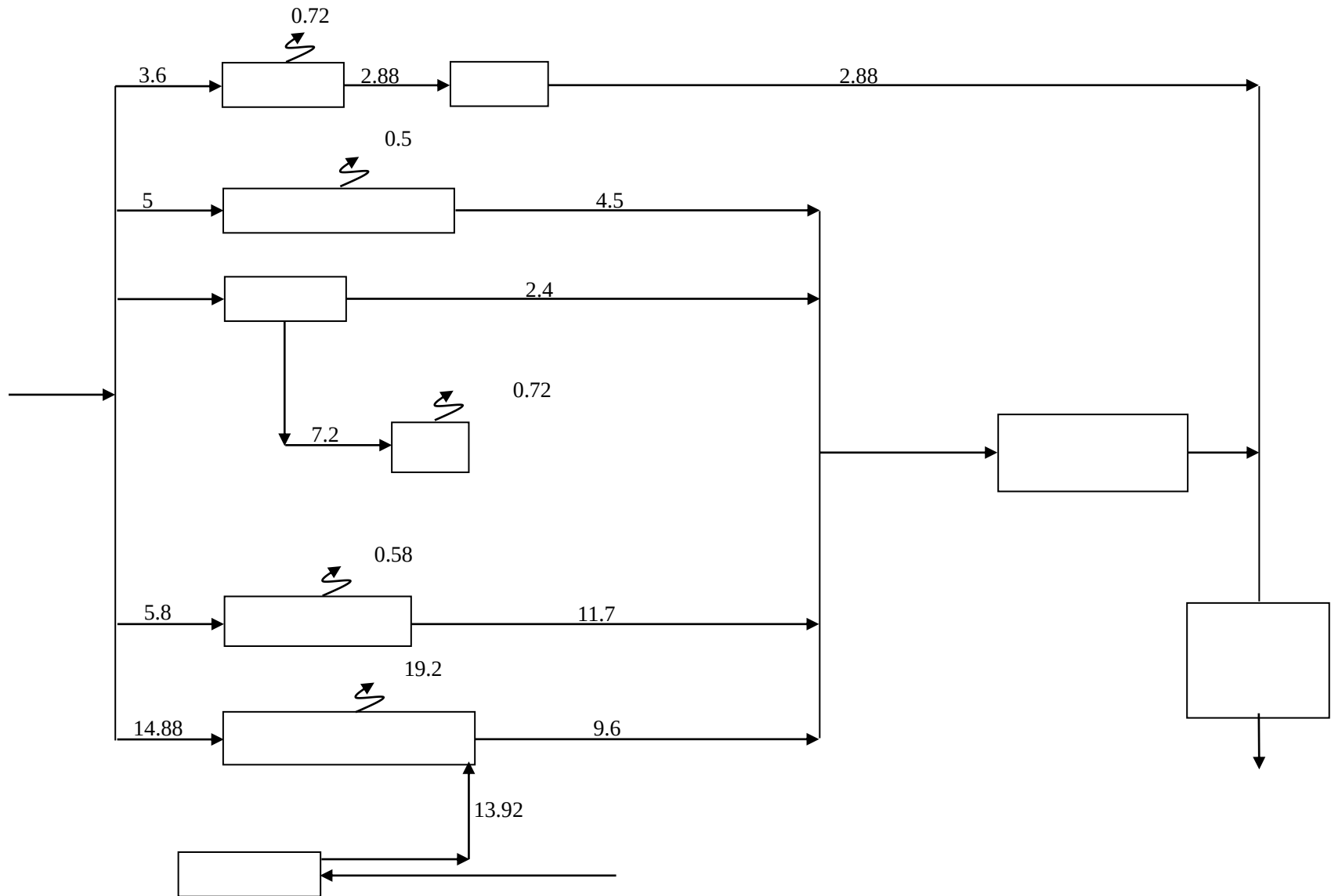
5

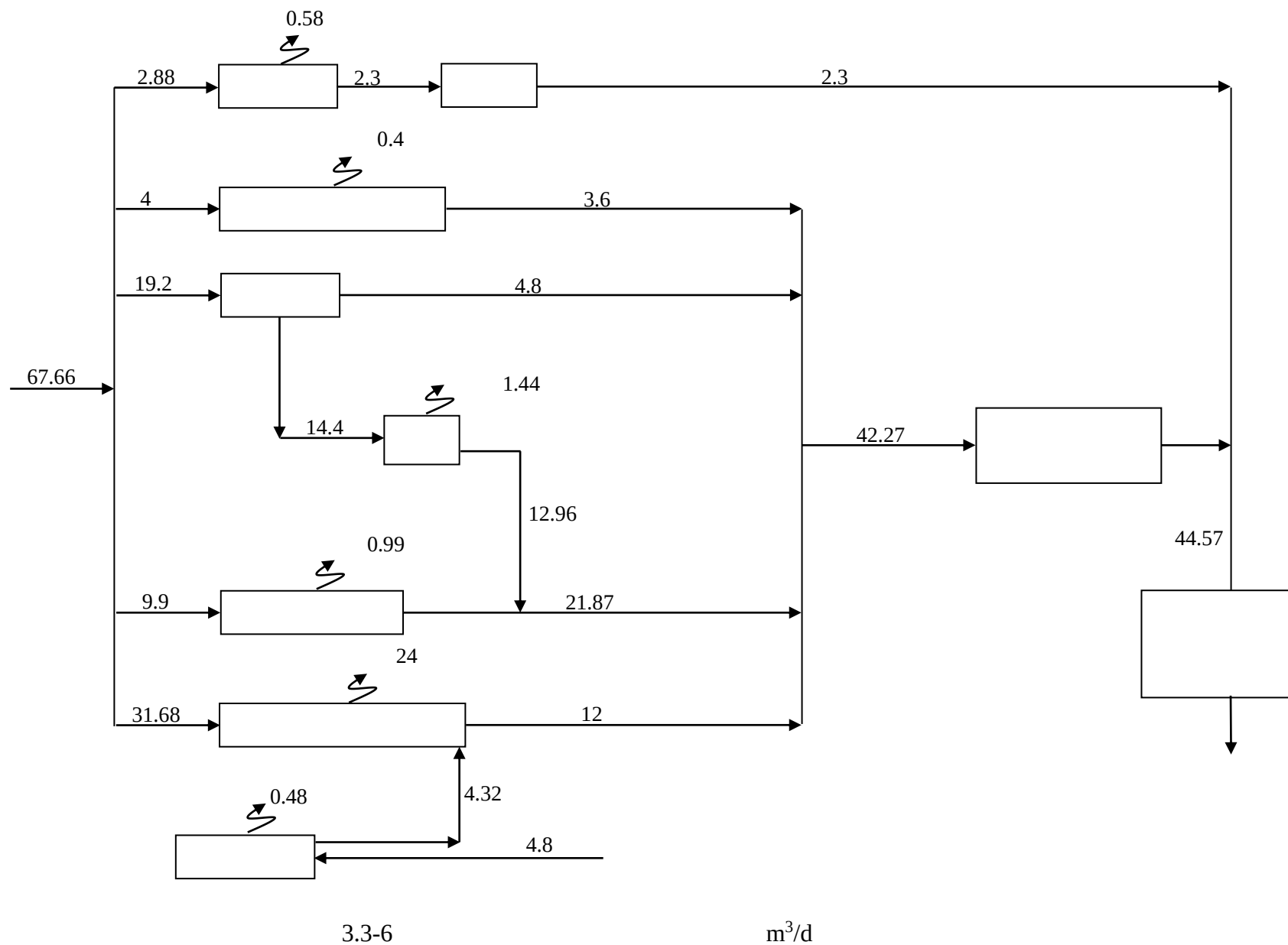
30

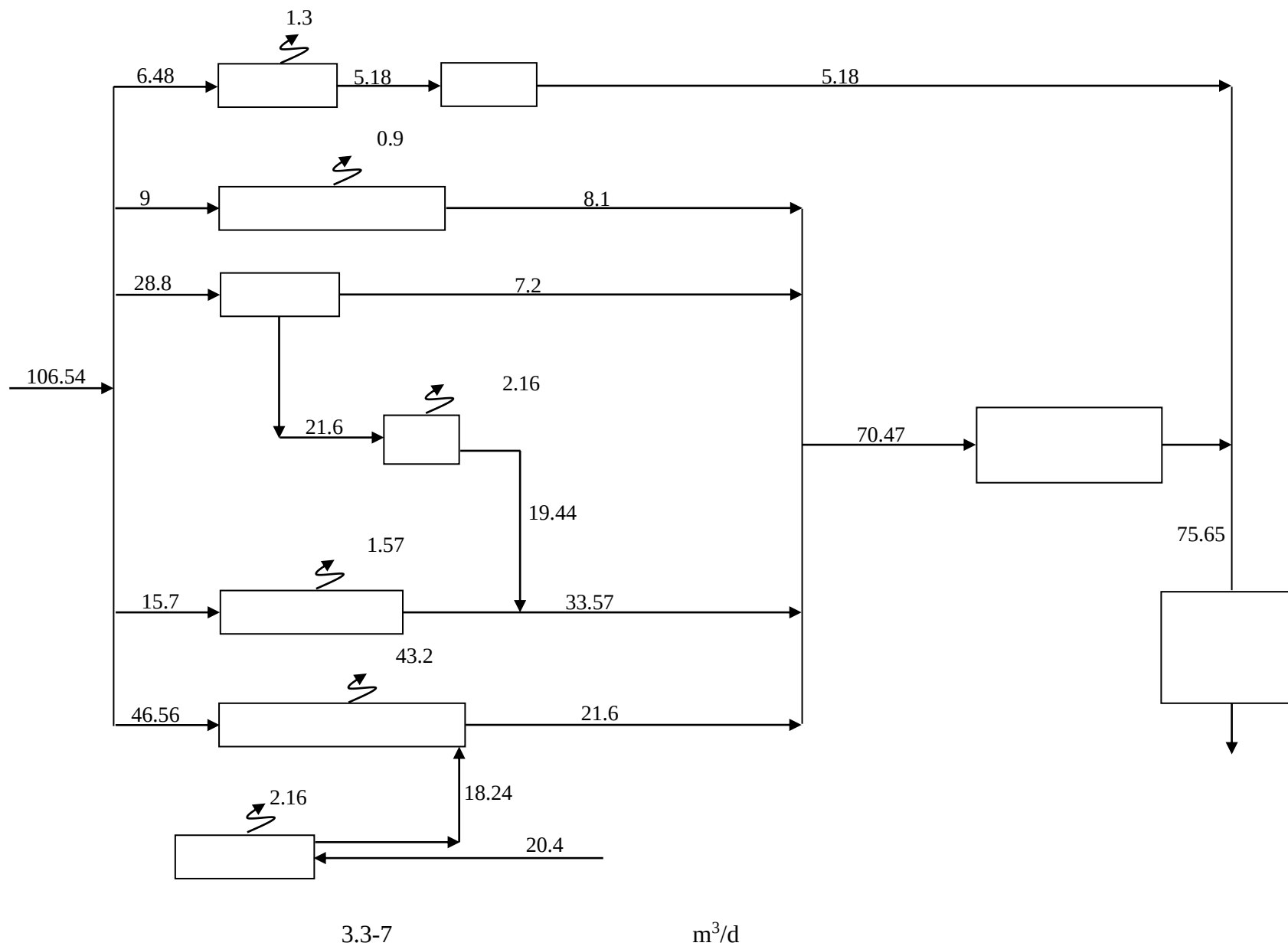
24

120L/ .

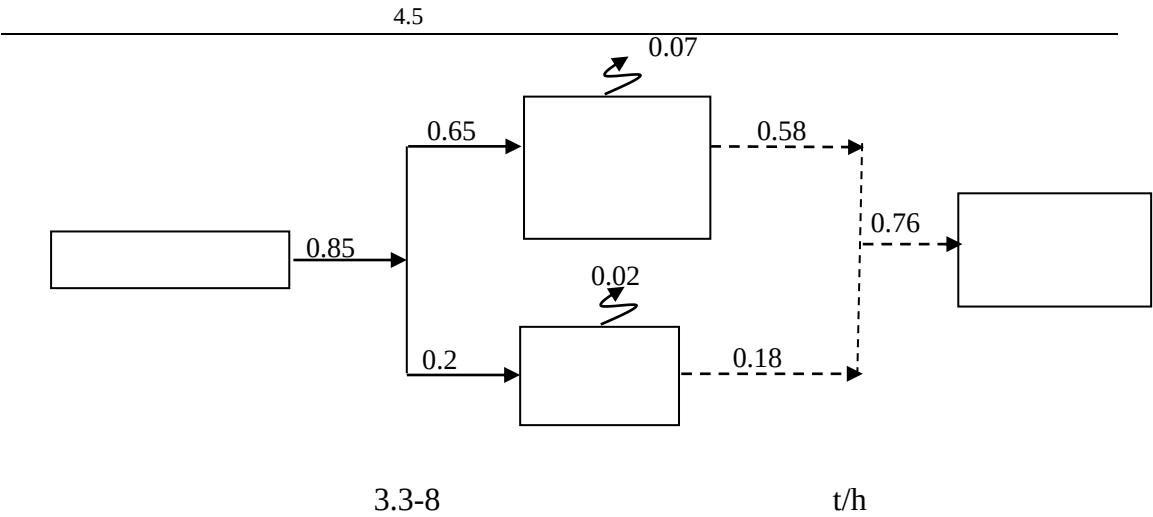
3.6m<sup>3</sup>/d 1260m











3.3.9.3

3304.7 kWh

1379.2 kWh

3.3.9.4

0.65t/h 5460t/a

0.2t/h 1680t/a

781m³/h 656.04 m³/a

1562m³/h 1312.08

m³/a

3.3.9.5

3.3-11

3.3-11

|  |  |   |  | m   | m   | m³  |     | t    |
|--|--|---|--|-----|-----|-----|-----|------|
|  |  | 1 |  | 1.5 | 2.2 | 3.9 | 0.8 | 2.84 |
|  |  | 1 |  | 1.5 | 2.2 | 3.9 | 0.8 | 2.54 |

|  |  |   |  |     |     |     |     |      |
|--|--|---|--|-----|-----|-----|-----|------|
|  |  |   |  |     |     |     |     |      |
|  |  | 1 |  | 1.5 | 2.2 | 3.9 | 0.8 | 2.84 |
|  |  | 1 |  | 1.5 | 2.2 | 3.9 | 0.8 | 2.54 |

3.3.9.6

EDI                      EDI    Electrodeionization

EDI

EDI

EDI

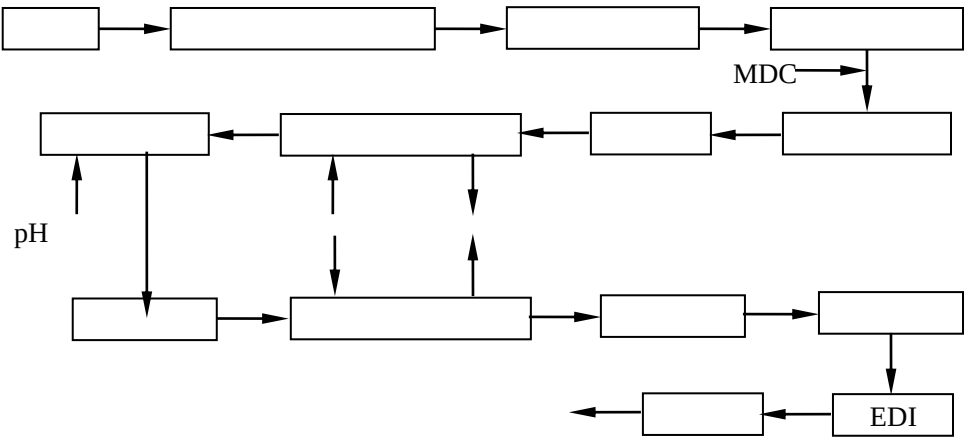
\*. F   '\

EDI

EDI        3~5

EDI

3.3-9



3.3-9

R134a

1

40Nm<sup>3</sup>/min

140Nm<sup>3</sup>/h

100Nm<sup>3</sup>/h

1

170Nm<sup>3</sup>/h

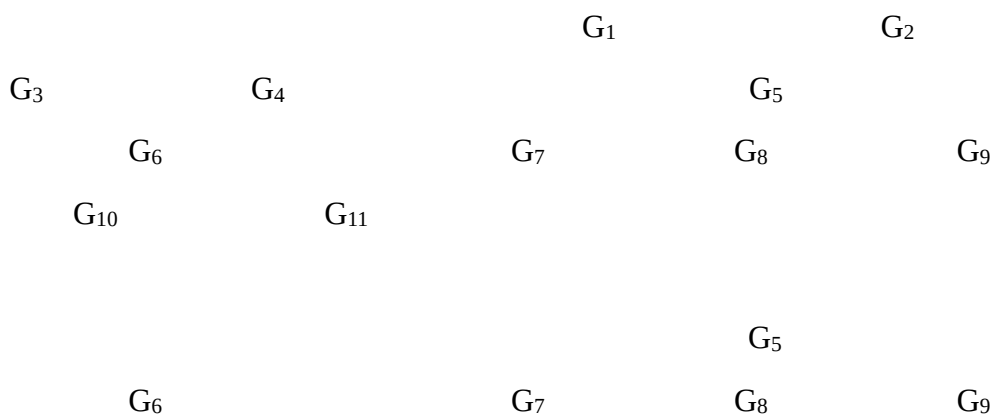
5

20kg/d 7t/a

2NH<sub>3</sub>=3H<sub>2</sub>+N<sub>2</sub>

3.4

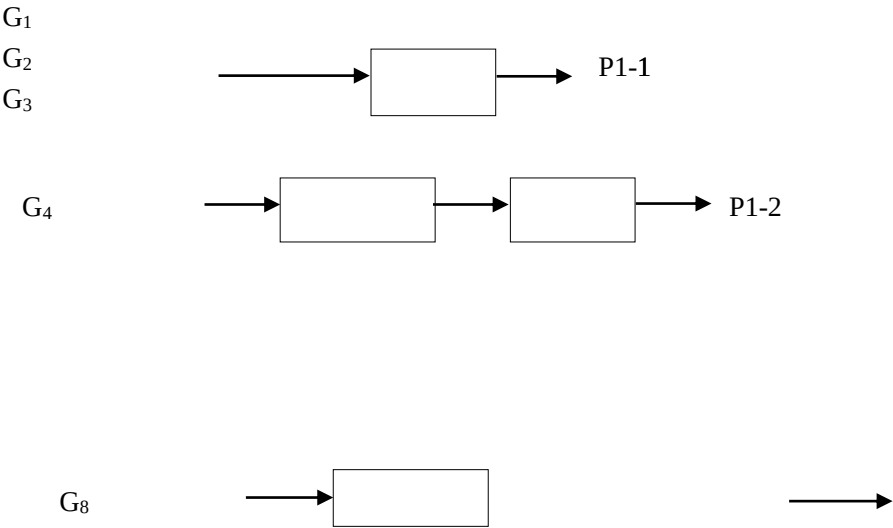
3.4.1



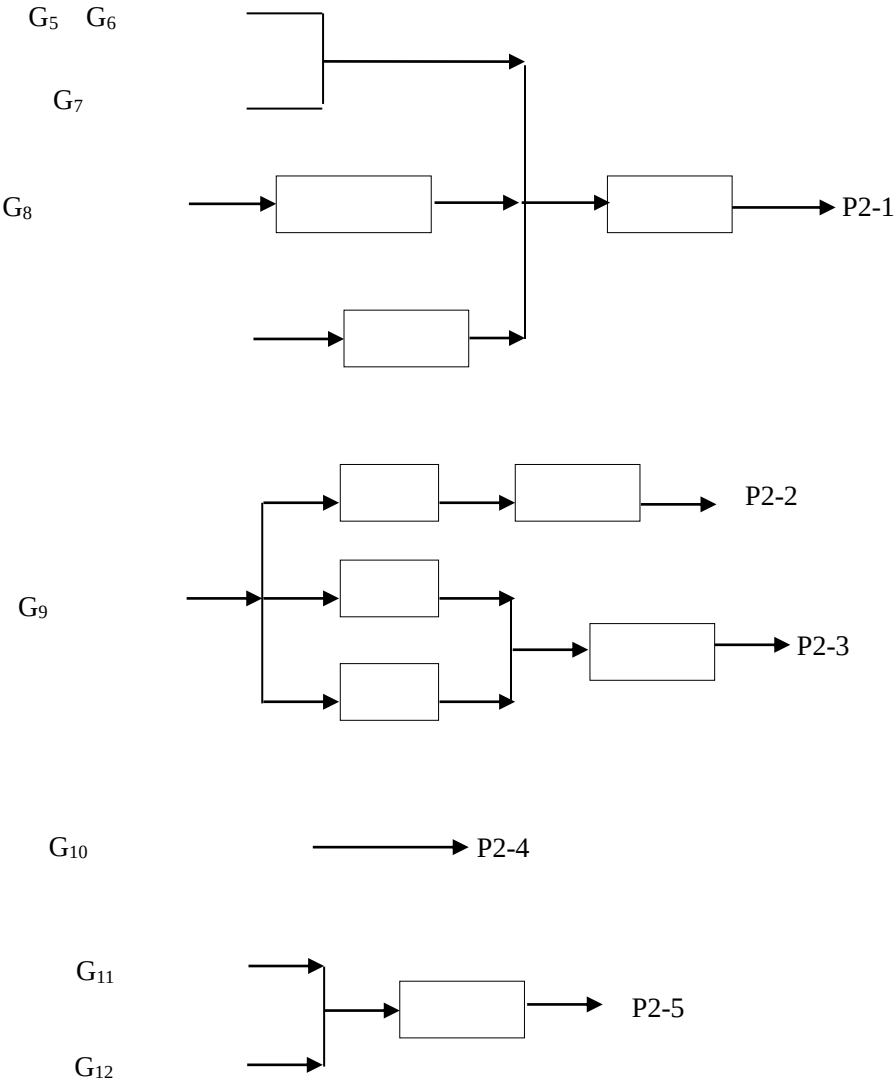
$G_{10}$  $G_{11}$ 

45000t/a      6      /

3.4-1      3.4-2



3.4-1



3.4-2



3.0kg/h

2

G<sub>4</sub>

19

G<sub>4</sub>

30m

0.8m

P1-2

45000t/a

6

/

2021 12

11

DA028

DA027

2022

3 18

DA029

HJ 1102-2020 D.1

6

56.16g/

+

38.19g/

3.4-2

3.4-2

|      |      | (t/a) | kg/h  | (mg/m <sup>3</sup> ) | (m <sup>3</sup> /h) |   | (%) | (t/a) | (kg/h) | (mg/m <sup>3</sup> ) |
|------|------|-------|-------|----------------------|---------------------|---|-----|-------|--------|----------------------|
| P1-2 | VOCs | 0.48  | 0.057 | 1.9                  | 30000               | + | 32  | 0.326 | 0.039  | 1.3                  |



G<sub>6</sub>G<sub>8</sub>

P1-3

6

P1-3

3.4-3 P1-3

|       |       |    |
|-------|-------|----|
| 1.722 | 0.205 | 41 |
|-------|-------|----|

|                    |                |                    |                     |                     |                             |  |  |
|--------------------|----------------|--------------------|---------------------|---------------------|-----------------------------|--|--|
|                    |                | 6                  |                     | 15mg/m <sup>3</sup> |                             |  |  |
| 5mg/m <sup>3</sup> | VOCs           |                    |                     |                     |                             |  |  |
| 6                  |                |                    |                     |                     |                             |  |  |
| DB37/801.6-2018    | 1              | VOCs               | 60mg/m <sup>3</sup> | 3.0kg/h             | 2mg/m <sup>3</sup> 0.15kg/h |  |  |
| 5mg/m <sup>3</sup> | 0.3kg/h        | 8mg/m <sup>3</sup> | 0.3kg/h             |                     |                             |  |  |
| GB14554-93         |                | 2                  | 27kg/h              |                     |                             |  |  |
| 4                  | G <sub>9</sub> |                    |                     |                     |                             |  |  |
| 36m                |                |                    |                     |                     |                             |  |  |
| 0.4m               | P1-4           | 38m                |                     |                     |                             |  |  |
| 0.5m               | P1-5           |                    |                     |                     |                             |  |  |
| 3.4-4              |                |                    | 3.4-5               |                     |                             |  |  |

3.4-4

|      |      | (t/a) | kg/h   | (mg/m <sup>3</sup> ) | (m <sup>3</sup> /h) |  | (%) | (t/a) | (kg/h) | (mg/m <sup>3</sup> ) |
|------|------|-------|--------|----------------------|---------------------|--|-----|-------|--------|----------------------|
| P1-4 |      | 1.28  | 0.152  | 25.3                 | 6000                |  | 85  | 0.192 | 0.0228 | 3.8                  |
|      | VOCs | 0.407 | 0.0485 | 8.1                  |                     |  | 32  | 0.277 | 0.033  | 5.5                  |

|      |      |        |        |      |       |    |        |        |      |
|------|------|--------|--------|------|-------|----|--------|--------|------|
|      |      |        |        |      |       |    |        |        |      |
|      |      | 1.16   | 0.138  | 23   |       | 90 | 0.116  | 0.0138 | 2.3  |
|      |      | 0.336  | 0.04   | 6    |       | 90 | 0.0336 | 0.004  | 0.6  |
|      |      | 0.111  | 0.0132 | 2.2  |       | 32 | 0.0756 | 0.009  | 1.5  |
| P1-5 |      | 1.8144 | 0.216  | 18   | 12000 | 85 | 0.272  | 0.0324 | 2.7  |
|      | VOCs | 1.976  | 0.235  | 19.6 |       | 32 | 1.344  | 0.160  | 13.3 |
|      |      | 3.02   | 0.360  | 30   |       | 90 | 0.302  | 0.036  | 3.0  |
|      |      | 0.706  | 0.0840 | 7    |       | 90 | 0.0706 | 0.0084 | 0.7  |
|      |      | 0.668  | 0.0795 | 6.6  |       | 32 | 0.454  | 0.054  | 4.5  |

3.4-5 P1-4 P1-5

(m)

GB16297-1996 2

36m 32.6kg/h 38m 35.8kg/h

DB37/2376-2013 2

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

6 DB37/801.6-2018

1 VOCs60mg/m<sup>3</sup> 3.0kg/h 2mg/m<sup>3</sup> 0.15kg/h 5mg/m<sup>3</sup>  
 0.3kg/h 8mg/m<sup>3</sup> 0.3kg/h

6 DB37/801.6-2018

2 15mg/m<sup>3</sup> 5mg/m<sup>3</sup>5 G<sub>10</sub>781m<sup>3</sup>/h 656.04 m<sup>3</sup>/a 30m

0.5m P1-6

HJ991-2018 C

C.4

Q<sub>net,ar</sub> 10467kJ/m<sup>3</sup> V<sub>0</sub>=0.26 Q<sub>net,ar</sub>/1000-0.25V<sub>s</sub>=0.272 Q<sub>net,ar</sub>/1000-0.25+1.061 -1 V<sub>0</sub>V<sub>0</sub> m<sup>3</sup>/m<sup>3</sup>Q<sub>net,ar</sub> kJ/m<sup>3</sup> 36440kJ/m<sup>3</sup>10467kJ/m<sup>3</sup>V<sub>s</sub> m<sup>3</sup>/m<sup>3</sup>

1.7

V<sub>0</sub>=0.260×36440/1000-0.25=9.22m<sup>3</sup>/m<sup>3</sup>V<sub>s</sub>=0.272×36440/1000-0.25+1.0161× 1.7-1 ×9.53=16.44m<sup>3</sup>/m<sup>3</sup>10785.3 m<sup>3</sup>/aE<sub>SO2</sub>=2R×S<sub>t</sub>×(1- s/100)×K×10<sup>-5</sup>

E<sub>SO2</sub>

|          |  |  |  |  |  |  |
|----------|--|--|--|--|--|--|
| [2019]39 |  |  |  |  |  |  |
|----------|--|--|--|--|--|--|

3.4-6

DB37/2376-2019 1

10mg/m<sup>3</sup>50mg/m<sup>3</sup>100mg/m<sup>3</sup>

&lt;

&gt;

[2019]39

50mg/m<sup>3</sup>

6

G<sub>11</sub>G<sub>12</sub>G<sub>11</sub>G<sub>12</sub>

35m

0.5m

P15

90%

HJ 1102-2020

D.1

6

32%

10%

12000m<sup>3</sup>/h

3.4-13

3.4-7

|      |      | (t/a) | kg/h   | (mg/m <sup>3</sup> ) | (m <sup>3</sup> /h) |  | (%) | (t/a)  | (kg/h) | (mg/m <sup>3</sup> ) |
|------|------|-------|--------|----------------------|---------------------|--|-----|--------|--------|----------------------|
| P1-7 | VOCs | 0.504 | 0.06   | 5                    | 12000               |  | 32  | 0.343  | 0.0408 | 3.4                  |
|      |      | 2.22  | 0.264  | 22                   |                     |  | 90  | 0.222  | 0.0264 | 2.2                  |
|      |      | 0.907 | 0.108  | 9                    |                     |  | 90  | 0.0907 | 0.0108 | 0.9                  |
|      |      | 0.266 | 0.0317 | 2.6                  |                     |  | 32  | 0.181  | 0.0216 | 1.8                  |

## 3.4-7

GB14554-93      2      30.2kg/h      VOCs

6

DB37/801.6-2018

1

VOCs60mg/m<sup>3</sup> 3.0kg/h2mg/m<sup>3</sup> 0.15kg/h5mg/m<sup>3</sup> 0.3kg/h8mg/m<sup>3</sup> 0.3kg/h

6

DB37/801.6-2018

2

15mg/m<sup>3</sup>5mg/m<sup>3</sup>

## 3.4-8

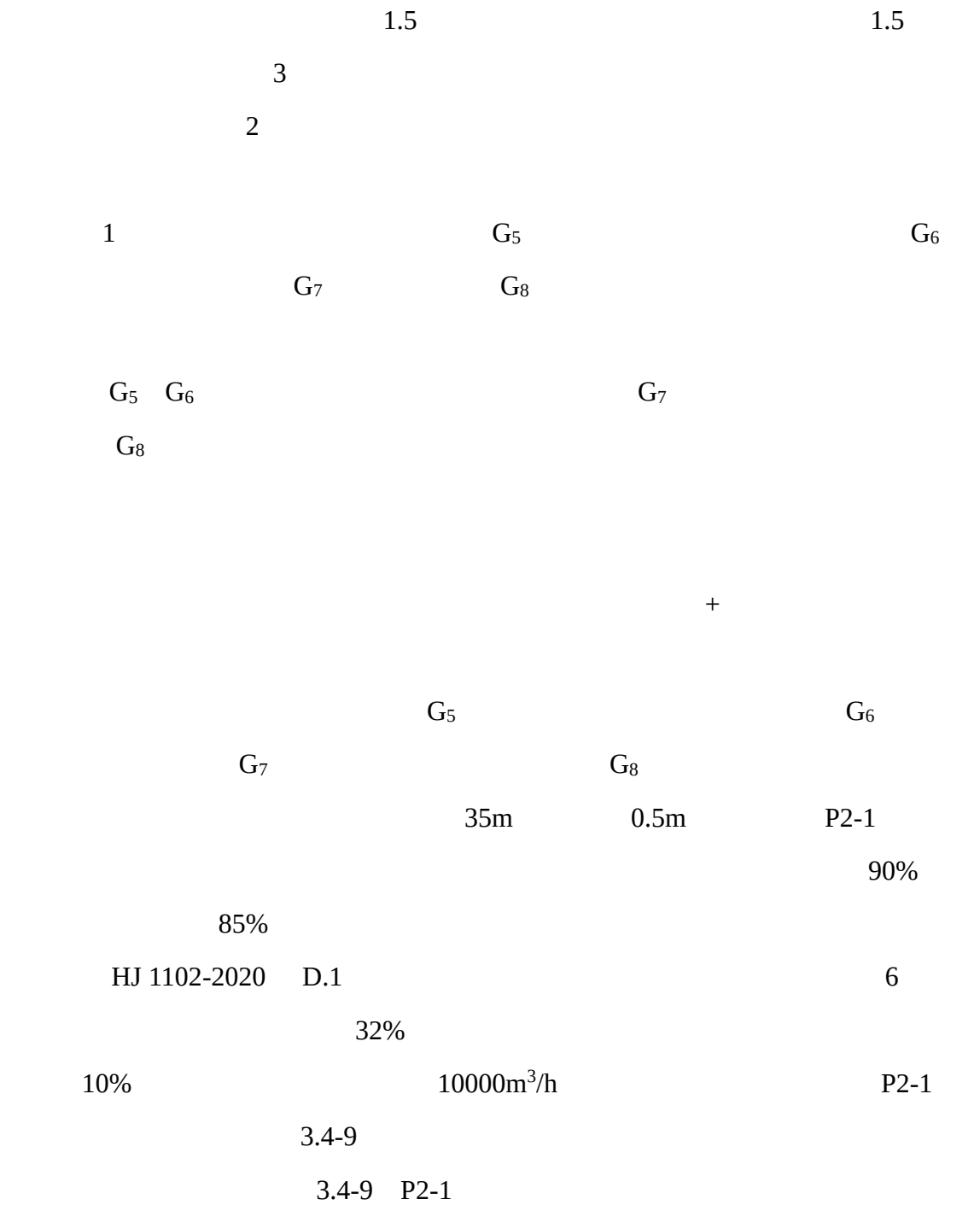
## 3.4-8

|    |      |                    |                   |        |       |   |     |                   |         |        |                   |      | m    |    |     |
|----|------|--------------------|-------------------|--------|-------|---|-----|-------------------|---------|--------|-------------------|------|------|----|-----|
|    |      | Nm <sup>3</sup> /h | mg/m <sup>3</sup> | kg/h   | t/a   |   |     | mg/m <sup>3</sup> | kg/h    | t/a    | mg/m <sup>3</sup> | kg/h |      |    |     |
| G1 |      | 30000              | 18.7              | 0.533  | 4.48  |   | 85% | 2.8               | 0.08    | 0.672  | 10                | 23   | P1-1 | 30 | 0.8 |
| G2 |      |                    |                   |        |       |   |     |                   |         |        |                   |      |      |    |     |
| G3 | VOCs |                    | 4.7               | 0.143  | 1.20  |   | 32% | 3.2               | 0.097   | 0.816  | 60                | 3.0  |      |    |     |
| G4 | VOCs | 30000              | 1.9               | 0.057  | 0.48  | + | 32% | --                | 0.039   | 0.326  | 60                | 3.0  | P1-2 | 30 | 0.8 |
| G5 |      | 5000               | 12.7              | 0.0633 | 0.532 |   | 85% | 1.9               | 0.00995 | 0.0798 | 10                | 31   | P1-3 | 35 | 0.3 |
| G6 | VOCs |                    | 61.9              | 0.310  | 2.606 |   | 32% | 42.1              | 0.211   | 1.772  | 60                | 3.0  |      |    |     |
|    |      |                    | 41                | 0.205  | 1.722 |   | 90% | 4.1               | 0.0205  | 0.1722 |                   | 27   |      |    |     |
| G7 |      |                    | 7                 | 0.035  | 0.294 |   | 90% | 0.7               | 0.0035  | 0.0294 | 5                 |      |      |    |     |
| G8 |      |                    |                   |        |       |   |     |                   |         |        |                   |      |      |    |     |



|     |                 |         |      |        |        |  |     |      |        |        |    |      |      |    |     |
|-----|-----------------|---------|------|--------|--------|--|-----|------|--------|--------|----|------|------|----|-----|
|     |                 |         | 2.2  | 0.0132 | 0.111  |  | 32% | 1.5  | 0.009  | 0.0756 | 15 |      |      |    |     |
| G9  |                 | 12000   | 18   | 0.216  | 1.8144 |  | 85% | 2.7  | 0.0324 | 0.272  | 10 | 35.8 | P1-5 | 38 | 0.5 |
|     | VOCs            |         | 19.6 | 0.235  | 1.976  |  | 32% | 13.3 | 0.160  | 1.344  | 60 | 3.0  |      |    |     |
|     |                 |         | 30   | 0.360  | 3.02   |  | 90% | 3.0  | 0.036  | 0.302  |    | 28.6 |      |    |     |
|     |                 |         | 7    | 0.0840 | 0.706  |  | 90% | 0.7  | 0.0084 | 0.0706 | 5  |      |      |    |     |
|     |                 |         | 6.6  | 0.0795 | 0.668  |  | 32% | 4.5  | 0.054  | 0.454  | 15 |      |      |    |     |
|     |                 |         |      |        |        |  |     |      |        |        |    |      |      |    |     |
|     |                 | 12839.6 | 10   | 0.128  | 1.0785 |  | 0   | 10   | 0.128  | 1.079  | 10 |      | P1-6 | 30 | 0.5 |
|     | SO <sub>2</sub> |         | 17.2 | 0.156  | 1.312  |  | 0   | 17.2 | 0.156  | 1.312  | 50 |      |      |    |     |
|     | NO <sub>x</sub> |         | 50   | 0.642  | 5.393  |  | 0   | 50   | 0.642  | 5.393  | 50 |      |      |    |     |
| G10 | VOCs            | 12000   | 5    | 0.06   | 0.504  |  | 32% | 3.4  | 0.0408 | 0.343  | 60 | 3.0  | P1-7 | 35 | 0.5 |
| G11 |                 |         | 22   | 0.264  | 2.22   |  | 90% | 2.2  | 0.0264 | 0.222  |    | 30.2 |      |    |     |
|     |                 |         | 9    | 0.108  | 0.907  |  | 90% | 0.9  | 0.0108 | 0.0907 | 5  |      |      |    |     |

## 3.4.1.1.2



|      |       |        |      |  |  |  |  |  |  |  |
|------|-------|--------|------|--|--|--|--|--|--|--|
| VOCs | 5.212 | 0.620  | 61.9 |  |  |  |  |  |  |  |
|      | 3.444 | 0.41   | 41   |  |  |  |  |  |  |  |
|      | 0.588 | 0.07   | 7    |  |  |  |  |  |  |  |
|      | 0.358 | 0.0426 | 4.3  |  |  |  |  |  |  |  |

|    |        |       |      |
|----|--------|-------|------|
| 32 | 3.544  | 0.422 | 42.1 |
| 90 | 0.3444 | 0.041 | 4.1  |
| 90 | 0.0588 | 0.007 | 0.7  |
| 32 | 0.2436 | 0.029 | 2.9  |

3.4-9 P2-1  
GB16297-1996 2 31kg/h  
DB37/2376-2013 2  
10mg/m<sup>3</sup>  
GB31572-2015 5 15mg/m<sup>3</sup> 5mg/m<sup>3</sup>  
6 15mg/m<sup>3</sup>  
5mg/m<sup>3</sup> VOCs  
6  
DB37/801.6-2018 1 VOCs60mg/m<sup>3</sup> 3.0kg/h 2mg/m<sup>3</sup> 0.15kg/h  
5mg/m<sup>3</sup> 0.3kg/h 8mg/m<sup>3</sup> 0.3kg/h  
GB14554-93 2 27kg/h  
2 G<sub>9</sub>  
36m  
0.5m P2-2 38m  
0.7m P2-3  
3.4-10 3.4-11  
3.4-10

|  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|



|  |     |        |  |    |  |  |
|--|-----|--------|--|----|--|--|
|  | 0.7 | 0.0248 |  | 5  |  |  |
|  | 4.5 | 0.126  |  | 15 |  |  |

3.4-10 3.4-11

GB14554-93 2 36m 28.6kg/h 38m 31.8kg/h

GB16297-1996 2

36m 32.6kg/h 38m 35.8kg/h

DB37/2376-2013 2

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

6 DB37/801.6-2018

1 VOCs60mg/m<sup>3</sup> 3.0kg/h 2mg/m<sup>3</sup> 0.15kg/h 5mg/m<sup>3</sup>

0.3kg/h 8mg/m<sup>3</sup> 0.3kg/h

6 DB37/801.6-2018

2 15mg/m<sup>3</sup> 5mg/m<sup>3</sup>3 G<sub>10</sub>1562m<sup>3</sup>/h 1312.08 m<sup>3</sup>/a 30m

0.8m P2-4

HJ991-2018 C

C.4

 $Q_{\text{net,ar}} 10467\text{kJ/m}^3 V_0=0.26 Q_{\text{net,ar}}/1000-0.25$  $V_s=0.272 Q_{\text{net,ar}}/1000-0.25+1.061 -1 V_0$  $V_0 \text{ m}^3/\text{m}^3$  $Q_{\text{net,ar}} \text{ kJ/m}^3 36440\text{kJ/m}^3$ 10467kJ/m<sup>3</sup> $V_s \text{ m}^3/\text{m}^3$ 

1.7

 $V_0=0.260 \times 36440/1000-0.25=9.22\text{m}^3/\text{m}^3$  $V_s=0.272 \times 36440/1000-0.25+1.0161 \times 1.7-1 \times 9.53=16.44\text{m}^3/\text{m}^3$

21570.6 m³/a

$$E_{SO_2}=2R \times S_t \times (1- s/100) \times K \times 10^{-5}$$

$E_{SO_2}$  t

$R$  m³

$S_t$  mg/m³

$s$  %

$K$

GB17820-2018 1

100mg/m³

$$0 \quad K \quad 1 \quad E_{SO_2}=2 \quad 1312.08 \quad 100 \quad 10^{-5}=2.624t/a$$

10mg/m³

10mg/m³

2.157t/a

NOx 50mg/m³

50mg/m³

10.785t/a

3.4-12

3.4-12

|  | Nm³/a |     |        |                 |        |                 |        |
|--|-------|-----|--------|-----------------|--------|-----------------|--------|
|  |       |     |        | SO <sub>2</sub> |        | NO <sub>x</sub> |        |
|  |       | t/a | mg/Nm³ | t/a             | mg/Nm³ | t/a             | mg/Nm³ |



|  |       |        |     |  |    |        |        |     |
|--|-------|--------|-----|--|----|--------|--------|-----|
|  | 1.814 | 0.216  | 9   |  | 90 | 0.1814 | 0.0216 | 0.9 |
|  | 0.532 | 0.0634 | 2.6 |  | 32 | 0.362  | 0.0432 | 1.8 |

3.4-13

GB14554-93      2      30.2kg/h

VOCs

6

DB37/801.6-2018      1

VOCs60mg/m<sup>3</sup>    3.0kg/h2mg/m<sup>3</sup>    0.15kg/h      5mg/m<sup>3</sup>    0.3kg/h8mg/m<sup>3</sup>    0.3kg/h

6

DB37/801.6-2018      2

15mg/m<sup>3</sup>5mg/m<sup>3</sup>

3.4-14



## 3.4-14

|    |      |                    |                   |        |        |  |     |                   |        |        |                   |      | m    |    |     |
|----|------|--------------------|-------------------|--------|--------|--|-----|-------------------|--------|--------|-------------------|------|------|----|-----|
|    |      | Nm <sup>3</sup> /h | mg/m <sup>3</sup> | kg/h   | t/a    |  |     | mg/m <sup>3</sup> | kg/h   | t/a    | mg/m <sup>3</sup> | kg/h |      |    |     |
| G5 |      | 5000               | 12.7              | 0.1266 | 1.064  |  | 85% | 1.9               | 0.019  | 0.1596 | 10                | 31   | P2-1 | 35 | 0.5 |
| G6 | VOCs |                    | 61.9              | 0.620  | 5.212  |  | 32% | 42.1              | 0.422  | 3.544  | 60                | 3.0  |      |    |     |
| G7 |      |                    | 41                | 0.41   | 3.444  |  | 90% | 4.1               | 0.041  | 0.3444 |                   | 27   |      |    |     |
| G8 |      |                    | 7                 | 0.07   | 0.588  |  | 90% | 0.7               | 0.007  | 0.0588 | 5                 |      |      |    |     |
|    |      |                    | 4.3               | 0.0426 | 0.358  |  | 32% | 2.9               | 0.029  | 0.2436 | 15                |      |      |    |     |
| G9 |      | 12000              | 25.3              | 0.304  | 2.56   |  | 85% | 3.8               | 0.0456 | 0.384  | 10                | 32.6 | P2-2 | 36 | 0.2 |
|    | VOCs |                    | 8.1               | 0.097  | 0.814  |  | 32% | 5.5               | 0.066  | 0.554  | 60                | 3.0  |      |    |     |
|    |      |                    | 23                | 0.276  | 2.32   |  | 90% | 2.3               | 0.0276 | 0.232  |                   | 28.6 |      |    |     |
|    |      |                    | 6                 | 0.08   | 0.672  |  | 90% | 0.6               | 0.008  | 0.0672 | 5                 |      |      |    |     |
|    |      |                    | 2.2               | 0.0132 | 0.111  |  | 32% | 1.5               | 0.018  | 0.1512 | 15                |      |      |    |     |
| G9 |      | 24000              | 18                | 0.432  | 3.6288 |  | 85% | 2.7               | 0.0648 | 0.544  | 10                | 35.8 | P2-3 | 38 | 0.4 |
|    | VOCs |                    | 19.6              | 0.47   | 3.952  |  | 32% | 13.3              | 0.32   | 2.688  | 60                | 3.0  |      |    |     |
|    |      |                    | 30                | 0.72   | 6.04   |  | 90% | 3.0               | 0.072  | 0.604  |                   | 28.6 |      |    |     |

|         |  |  |     |       |       |  |     |     |        |        |    |  |      |    |     |
|---------|--|--|-----|-------|-------|--|-----|-----|--------|--------|----|--|------|----|-----|
|         |  |  | 7   | 0.168 | 1.412 |  | 90% | 0.7 | 0.0168 | 0.1412 | 5  |  |      |    |     |
|         |  |  | 6.6 | 0.159 | 1.336 |  | 32% | 4.5 | 0.108  | 0.908  | 15 |  |      |    |     |
| 25679.3 |  |  | 10  | 0.257 | 2.157 |  | 0   | 10  | 0.257  | 2.157  | 10 |  | P2-4 | 30 | 0.5 |

## 3.4-15

|    |      |                    |                   |       |      |   |     |                   |       |       |                   |      | m    |    |     |
|----|------|--------------------|-------------------|-------|------|---|-----|-------------------|-------|-------|-------------------|------|------|----|-----|
|    |      | Nm <sup>3</sup> /h | mg/m <sup>3</sup> | kg/h  | t/a  |   |     | mg/m <sup>3</sup> | kg/h  | t/a   | mg/m <sup>3</sup> | kg/h |      |    |     |
| G1 |      | 30000              | 18.7              | 0.533 | 4.48 |   | 85% | 2.8               | 0.08  | 0.672 | 10                | 23   | P1-1 | 30 | 0.8 |
| G2 |      |                    |                   |       |      |   |     |                   |       |       |                   |      |      |    |     |
| G3 | VOCs |                    | 4.7               | 0.143 | 1.20 |   | 32% | 3.2               | 0.097 | 0.816 | 60                | 3.0  |      |    |     |
| G4 | VOCs | 30000              | 1.9               | 0.057 | 0.48 | + | 32% | --                | 0.039 | 0.326 | 60                | 3.0  | P1-2 |    |     |

|  |  |  |     |        |       |  |     |     |        |        |    |      |  |  |  |
|--|--|--|-----|--------|-------|--|-----|-----|--------|--------|----|------|--|--|--|
|  |  |  | 2.2 | 0.0132 | 0.111 |  | 32% | 1.5 | 0.009  | 0.0756 | 15 |      |  |  |  |
|  |  |  | 18  | 0.0633 | 0.532 |  | 85% | 2.7 | 0.0324 | 0.272  | 10 | 35.8 |  |  |  |

G9

12000

P1-  
5

38

0.5

|    |      |       |      |        |       |  |     |      |        |        |    |      |          |    |     |
|----|------|-------|------|--------|-------|--|-----|------|--------|--------|----|------|----------|----|-----|
| G9 |      | 6000  | 25.3 | 0.304  | 2.56  |  | 85% | 3.8  | 0.0456 | 0.384  | 10 | 32.6 | P2-<br>2 | 36 | 0.2 |
|    | VOCs |       | 8.1  | 0.097  | 0.814 |  | 32% | 5.5  | 0.066  | 0.554  | 60 | 3.0  |          |    |     |
|    |      |       | 23   | 0.276  | 2.32  |  | 90% | 2.3  | 0.0276 | 0.232  |    | 28.6 |          |    |     |
|    |      |       | 6    | 0.08   | 0.672 |  | 90% | 0.6  | 0.008  | 0.0672 | 5  |      |          |    |     |
|    |      |       | 2.2  | 0.0132 | 0.111 |  | 32% | 1.5  | 0.018  | 0.1512 | 15 |      |          |    |     |
| G9 |      | 12000 | 18   | 0.1266 | 1.064 |  | 85% | 2.7  | 0.0648 | 0.544  | 10 | 35.8 | P2-<br>3 | 38 | 0.4 |
|    | VOCs |       | 19.6 | 0.47   | 3.952 |  | 32% | 13.3 | 0.32   | 2.688  | 60 | 3.0  |          |    |     |
|    |      |       | 30   | 0.72   | 6.04  |  | 90% | 3.0  | 0.072  | 0.604  |    | 28.6 |          |    |     |
|    |      |       | 7    | 0.168  | 1.412 |  | 90% | 0.7  | 0.0168 | 0.1412 | 5  |      |          |    |     |
|    |      |       | 6.6  | 0.159  | 1.336 |  | 32% | 4.5  | 0.108  | 0.908  | 15 |      |          |    |     |

25679.3

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|          |                 |          |                 |                    |           |           |           |
|----------|-----------------|----------|-----------------|--------------------|-----------|-----------|-----------|
| 3.4-15   |                 |          | 141555.876      | Nm <sup>3</sup> /a | 5.5389t/a | VOCs      |           |
| 12.35t/a | SO <sub>2</sub> | 3.936t/a | NO <sub>x</sub> | 16.178t/a          | 2.4366t/a | 0.6729t/a | 2.4972t/a |

## 3.4.1.2

## 3.4.1.2.1

|          |  |  |          |      |
|----------|--|--|----------|------|
|          |  |  | 90%      | 10%  |
|          |  |  | 0.498t/a | VOCs |
| 0.187t/a |  |  |          |      |

|         |          |          |           |      |
|---------|----------|----------|-----------|------|
|         |          |          | 90%       | 10%  |
|         |          |          | 0.2604t/a | VOCs |
| 0.61t/a | 0.902t/a | 0.249t/a | 0.136t/a  |      |

## 3.4.1.2.2

|          |          |          |          |      |
|----------|----------|----------|----------|------|
|          |          |          | 90%      | 10%  |
|          |          |          | 0.806t/a | VOCs |
| 1.221t/a | 1.805t/a | 0.498t/a | 0.26t/a  |      |

90%

90%

## 3.4.2

## 3.4.2.1

3.4-16

3.4-17

3.4-16

|  |  |  | m <sup>3</sup> /a | m <sup>3</sup> /a | mg/L              |                  |    |    |      |
|--|--|--|-------------------|-------------------|-------------------|------------------|----|----|------|
|  |  |  |                   |                   | COD <sub>Cr</sub> | BOD <sub>5</sub> |    |    |      |
|  |  |  | 4095              | 7654.5            | 200               | 100              | 15 | 25 | 700  |
|  |  |  | 3360              | 4200              | 100               | 60               | 5  | 8  | 2100 |
|  |  |  | 840               | 1680              | 60                | 20               | 5  | 8  | 2800 |
|  |  |  | 1575              | 1260              | 500               | 350              | 5  | 8  | 700  |
|  |  |  | 1008              | 805               | 350               | 250              | 30 | 45 | 700  |
|  |  |  | 10878             |                   | 216               | 132              | 11 | 18 | 1295 |
|  |  |  |                   | 15599.5           | 190               | 109              | 11 | 18 | 1303 |
|  |  |  |                   | 26477.5           | 201               | 118              | 11 | 18 | 1300 |

3.4-16

|   |                   | m <sup>3</sup> /a | mg/L | t/a   | m <sup>3</sup> /a | mg/L | t/a   | m <sup>3</sup> /a | mg/L | t/a   |
|---|-------------------|-------------------|------|-------|-------------------|------|-------|-------------------|------|-------|
|   |                   |                   |      |       |                   |      |       |                   |      |       |
| 1 | COD <sub>Cr</sub> | 10878             | 216  | 2.35  | 15599.5           | 190  | 2.96  | 26477.5           | 201  | 5.31  |
| 2 | BOD <sub>5</sub>  |                   | 132  | 1.44  |                   | 109  | 1.70  |                   | 118  | 3.14  |
| 3 |                   |                   | 11   | 0.12  |                   | 11   | 0.17  |                   | 11   | 0.29  |
| 4 |                   |                   | 18   | 0.20  |                   | 18   | 0.28  |                   | 18   | 0.48  |
| 5 |                   |                   | 1295 | 14.09 |                   | 1303 | 20.33 |                   | 1300 | 34.41 |

3.4-16

10878m<sup>3</sup>/a COD<sub>Cr</sub>

2.33t/a 0.12t/a

15599.5m<sup>3</sup>/a COD<sub>Cr</sub>

2.96t/a 0.17t/a

26477.5m<sup>3</sup>/aCOD<sub>Cr</sub>

5.31t/a 0.29t/a

3.4.2.2

2.2.7.2.2

2022 2



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|       |                |          |
|-------|----------------|----------|
| CODcr | 29.6mg/L       | 8.06mg/L |
|       | GB/T31962-2015 | 1A       |

3.4.2.3

**1**

2004

8

4 m<sup>3</sup>/d

2007 9

8 m<sup>3</sup>/d4 m<sup>3</sup>/d

1 A

2009 5

8

16km

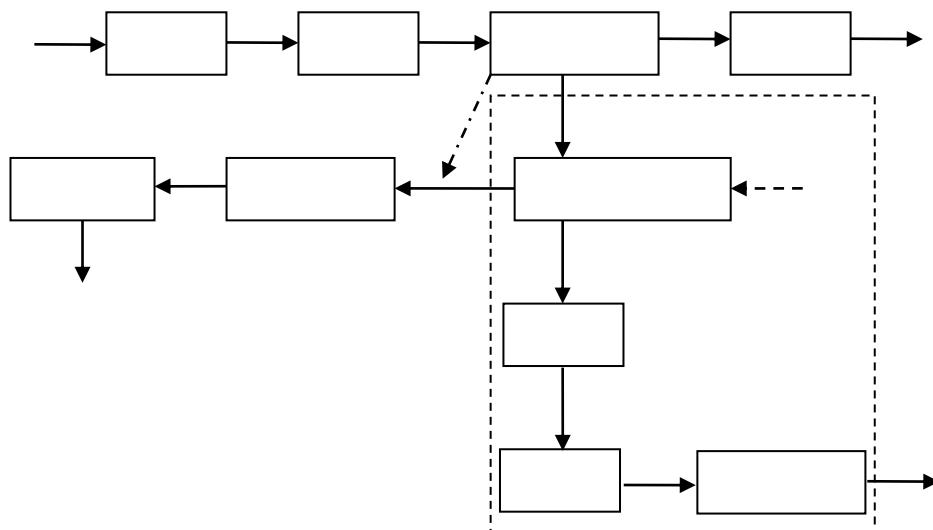
0.9mm

BIOLAK

BIOLAK

BIOLAK

**3.4-3**



3.4-3

pH 6~9

COD<sub>Cr</sub> , ) ) (E +) (E BOD<sub>5</sub> \*.) (E \*.) (E

(GB18918-2002) A

[2017]5

COD<sub>Cr</sub> - ) (E NH<sub>3</sub>-G + (E

2

2021 1~12

3.4-17

3.4-17

2021 1~12

|         | (m <sup>3</sup> ) | pH   |        |       |       |      |
|---------|-------------------|------|--------|-------|-------|------|
|         |                   |      | (mg/L) |       |       |      |
| 2021.01 | 1071636           | 6.99 | 14.4   | 0.253 | 0.186 | 6.81 |
| 2021.02 | 1018063           | 7.25 | 17.4   | 0.188 | 0.202 | 6.58 |
| 2021.03 | 915311            | 7.05 | 13.7   | 0.152 | 0.204 | 9.56 |
| 2021.04 | 666861            | 6.77 | 13.5   | 0.151 | 0.191 | 10.9 |
| 2021.05 | 684945            | 6.96 | 14.4   | 0.219 | 0.278 | 9.03 |
| 2021.06 | 926823            | 7.06 | 20.6   | 0.244 | 0.231 | 8    |
| 2021.07 | 1282826           | 7.06 | 17.6   | 0.343 | 0.199 | 8.18 |
| 2021.08 | 1459914           | 7.06 | 20.3   | 0.276 | 0.188 | 8.06 |
| 2021.09 | 1381393           | 7.13 | 17.1   | 0.219 | 0.142 | 8.45 |
| 2021.10 | 1294080           | 7.15 | 26.5   | 0.151 | 0.205 | 10.2 |
| 2021.11 | 1048103           | 7.27 | 28.7   | 0.495 | 0.198 | 9.89 |
| 2021.12 | 1424289           | 7.39 | 28.1   | 0.34  | 0.202 | 7.66 |

|  |          |      |      |       |       |      |
|--|----------|------|------|-------|-------|------|
|  | 1097854  | 7.1  | 19.4 | 0.253 | 0.202 | 8.61 |
|  | 1459914  | 7.39 | 28.7 | 0.495 | 0.278 | 10.9 |
|  | 666861   | 6.77 | 13.5 | 0.151 | 0.142 | 6.58 |
|  | 10881313 | /    | /    | /     | /     | /    |
|  |          |      | 40   | 2     | 4     | 45   |

3.4-17

GB18918-2002

A

[2017]5

$$\text{COD}_{\text{Cr}} - (\text{E} \text{ NH}_3\text{-G} + (\text{E}$$

4

GB18918-2002

A

$$[\text{2017}]5 \quad \text{COD}_{\text{Cr}} - (\text{E} \text{ NH}_3\text{-G} + (\text{E}$$

3237.3t/a

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

$$15.1\text{mg/L} \quad 0.148\text{mg/L} \quad 6.34\text{mg/L} \quad 0.263\text{mg/L} \quad 0.049\text{t/a}$$

$$0.0005\text{t/a} \quad 0.02\text{t/a} \quad 0.0009\text{t/a} \quad 6474.6\text{t/a}$$

$$\text{COD}_{\text{Cr}} \quad 0.098\text{t/a} \quad 0.001\text{t/a} \quad 0.04\text{t/a} \quad 0.0018\text{t/a}$$

3.4.2.4

3.4-18

3.4-19

3.4-18

|   |                   | m <sup>3</sup> /a | mg/L | t/a   | m <sup>3</sup> /a | mg/L  | t/a   |
|---|-------------------|-------------------|------|-------|-------------------|-------|-------|
| 1 | COD <sub>Cr</sub> | 10878             | 29.6 | 0.32  | 10878             | 19.4  | 0.21  |
| 2 | BOD <sub>5</sub>  |                   | 18   | 0.20  |                   | 10    | 0.11  |
| 3 |                   |                   | 8.06 | 0.088 |                   | 0.253 | 0.003 |
| 4 |                   |                   | 13   | 0.14  |                   | 8.61  | 0.09  |
| 5 |                   |                   | 1295 | 14.09 |                   | 1295  | 14.09 |

3.4-19

|   |                   | m <sup>3</sup> /a | mg/L | t/a   | m <sup>3</sup> /a | mg/L  | t/a   | m <sup>3</sup> /a | mg/L  | t/a   |
|---|-------------------|-------------------|------|-------|-------------------|-------|-------|-------------------|-------|-------|
| 1 | COD <sub>Cr</sub> | 15599.5           | 29.6 | 0.46  | 15599.5           | 19.4  | 0.30  | 26477.5           | 19.4  | 0.51  |
| 2 | BOD <sub>5</sub>  |                   | 18   | 0.28  |                   | 10    | 0.16  |                   | 10    | 0.26  |
| 3 |                   |                   | 8.06 | 0.126 |                   | 0.253 | 0.004 |                   | 0.253 | 0.007 |
| 4 |                   |                   | 13   | 0.20  |                   | 8.61  | 0.13  |                   | 8.61  | 0.23  |
| 5 |                   |                   | 1303 | 20.33 |                   | 1303  | 20.33 |                   | 1300  | 34.42 |

10878m<sup>3</sup>/aCOD<sub>Cr</sub>

19.4mg/L

0.253mg/L

COD<sub>Cr</sub>

0.21t/a

0.003t/a

26477.5m<sup>3</sup>/aCOD<sub>Cr</sub>

0.30t/a

0.004t/a

26477.5m<sup>3</sup>/aCOD<sub>Cr</sub>

0.51t/a

0.007t/a

## 3.4.3

## 3.4.3.1

80 95dB A

3.4-20

3.4-20

|  |  |    |  |  | dB(A)<br>1m | dB(A) |
|--|--|----|--|--|-------------|-------|
|  |  | 1  |  |  | 80          | 55    |
|  |  | 1  |  |  | 95          | 70    |
|  |  | 31 |  |  | 95          | 70    |
|  |  | 1  |  |  | 80          | 55    |
|  |  | 1  |  |  | 80          | 55    |

|  |  |    |  |  |    |    |
|--|--|----|--|--|----|----|
|  |  | 36 |  |  | 85 | 60 |
|  |  | 6  |  |  | 85 | 60 |
|  |  | 25 |  |  | 90 | 65 |
|  |  | 10 |  |  | 85 | 60 |
|  |  | 50 |  |  | 90 | 65 |
|  |  | 20 |  |  | 85 | 60 |
|  |  | 36 |  |  | 85 | 60 |
|  |  | 20 |  |  | 85 | 60 |

3.4.3.2

A

B

C

15 25dB A

GB12348-2008 3 4

3.4.4

2021

HW08 900-249-08 FDY

HW49 900-041-49

2

FDY

3.4-21

3.4-21

|                |  |  | t/a   |       |  |                      |  |
|----------------|--|--|-------|-------|--|----------------------|--|
|                |  |  |       |       |  |                      |  |
| S <sub>1</sub> |  |  | 773   | --    |  | 282-999-99           |  |
| S <sub>3</sub> |  |  | 1110  | --    |  | 282-999-99           |  |
| S <sub>4</sub> |  |  | 157   | 314   |  | 282-999-99           |  |
| S <sub>5</sub> |  |  | 472.6 | 945.2 |  | 282-999-99           |  |
| S <sub>2</sub> |  |  | 0.1   | --    |  | HW08<br>(900-249-08) |  |
|                |  |  | 4     | 3.5   |  | 282-999-99           |  |

|  |  |    |        |        |  |                      |  |
|--|--|----|--------|--------|--|----------------------|--|
|  |  |    | 0.1    | 0.2    |  | 282-999-99           |  |
|  |  |    | 5.3    | 4.2    |  |                      |  |
|  |  | -- | 2      | 3.5    |  | HW49<br>(900-041-49) |  |
|  |  |    | 1t/4a  |        |  | HW08<br>(900-249-08) |  |
|  |  |    | 2535.1 | 1272.6 |  |                      |  |
|  |  |    | 3.1    | 3.5    |  |                      |  |

3.4.5

3.4-22

3.4-23

3.4-24

3.4-22

|  |  |                       |          |        |          |  |
|--|--|-----------------------|----------|--------|----------|--|
|  |  |                       |          |        |          |  |
|  |  | Nm <sup>3</sup> /a    | 90585.26 | 0      | 90585.26 |  |
|  |  | t/a                   | 9.1849   | 6.8906 | 2.2943   |  |
|  |  | VOCs<br>t/a           | 7.173    | 2.295  | 4.878    |  |
|  |  | SO <sub>2</sub> t/a   | 1.312    | 0      | 1.312    |  |
|  |  | NO <sub>x</sub> t/a   | 5.393    | 0      | 5.393    |  |
|  |  | t/a                   | 8.122    | 0.3916 | 0.8122   |  |
|  |  | t/a                   | 2.243    | 6.8906 | 0.2243   |  |
|  |  | t/a                   | 1.224    | 2.295  | 0.8324   |  |
|  |  | t/a                   | 0.2604   | 0      | 0.2604   |  |
|  |  | VOCs<br>t/a           | 0.61     | 0      | 0.61     |  |
|  |  | t/a                   | 0.0902   | 0      | 0.0902   |  |
|  |  | t/a                   | 0.249    | 0      | 0.249    |  |
|  |  | t/a                   | 0.136    | 0      | 0.136    |  |
|  |  | m <sup>3</sup> /a     | 10878    | 0      | 10878    |  |
|  |  | COD <sub>Cr</sub> t/a | 2.35     | 2.14   | 0.21     |  |
|  |  | t/a                   | 0.12     | 0.117  | 0.003    |  |

|  |     |         |         |   |  |
|--|-----|---------|---------|---|--|
|  | t/a | 773     | 773     | 0 |  |
|  | t/a | 1110    | 1110    | 0 |  |
|  | t/a | 4       | 4       | 0 |  |
|  | t/a | 157     | 157     | 0 |  |
|  | t/a | 472.6   | 472.6   | 0 |  |
|  | t/a | 0.1     | 0.1     | 0 |  |
|  | t/a | 0.1     | 0.1     | 0 |  |
|  | t/a | 5.3     | 5.3     | 0 |  |
|  | t/a | 2       | 2       | 0 |  |
|  | t/a | 1t/4a   | 1t/4a   | 0 |  |
|  | t/a | 515.573 | 515.573 | 0 |  |

3.4-23

|  |                    |          |   |  |  |
|--|--------------------|----------|---|--|--|
|  |                    |          |   |  |  |
|  | Nm <sup>3</sup> /a | 50970.61 | 0 |  |  |



t/a

314

314

|  |     |        |        |   |  |
|--|-----|--------|--------|---|--|
|  | t/a | 1110   | 1110   | 0 |  |
|  | t/a | 7.5    | 7.5    | 0 |  |
|  | t/a | 471    | 471    | 0 |  |
|  | t/a | 1417.8 | 1417.8 | 0 |  |
|  | t/a | 0.1    | 0.1    | 0 |  |

|      |      | mg/m <sup>3</sup> | kg/h    | mg/m <sup>3</sup> | kg/h |  |
|------|------|-------------------|---------|-------------------|------|--|
| P1-1 |      | 18.7              | 0.533   | 10                | 23   |  |
|      | VOCs | 4.7               | 0.143   | 60                | 3.0  |  |
| P1-2 | VOCs | 1.9               | 0.057   | 60                | 3.0  |  |
| P1-3 |      | 12.7              | 0.0633  | 10                | 31   |  |
|      | VOCs | 61.9              | 0.310   | 60                | 3.0  |  |
|      |      | 41                | 0.205   |                   | 27   |  |
|      |      | 7                 | 0.035   | 5                 |      |  |
|      |      | 4.3               | 0.0213  | 15                |      |  |
| P1-4 |      | 25.3              | 0.152   | 10                | 32.6 |  |
|      | VOCs | 8.1               | 0.0485  | 60                | 3.0  |  |
|      |      | 23                | 0.138   |                   | 28.6 |  |
|      |      | 6                 | 0.04    | 5                 |      |  |
|      |      | 2.2               | 0.0132  | 15                |      |  |
| P1-5 |      | 18                | 0.216   | 10                | 35.8 |  |
|      | VOCs | 19.6              | 0.235   | 60                | 3.0  |  |
|      |      | 30                | 0.360   |                   | 28.6 |  |
|      |      | 7                 | 0.0840  | 5                 |      |  |
|      |      | 6.6               | 0.0795  | 15                |      |  |
| P1-7 | VOCs | 5                 | 0.06    | 60                | 3.0  |  |
|      |      | 22                | 0.264   |                   | 30.2 |  |
|      |      | 9                 | 0.108   | 5                 |      |  |
|      |      | 2.6               | 0.0317  | 15                |      |  |
|      |      | 0.17              | 0.00038 | 5                 | 0.26 |  |

3.4-26

|  |  |                   |      |                   |
|--|--|-------------------|------|-------------------|
|  |  |                   |      |                   |
|  |  | mg/m <sup>3</sup> | kg/h | mg/m <sup>3</sup> |

|      |      |      |         |    |      |  |
|------|------|------|---------|----|------|--|
|      |      | 23   | 0.276   |    | 28.6 |  |
|      |      | 6    | 0.08    | 5  |      |  |
|      |      | 2.2  | 0.0132  | 15 |      |  |
| P2-3 |      | 18   | 0.432   | 10 | 35.8 |  |
|      | VOCs | 19.6 | 0.47    | 60 | 3.0  |  |
|      |      | 30   | 0.72    |    | 28.6 |  |
|      |      | 7    | 0.168   | 5  |      |  |
|      |      | 6.6  | 0.159   | 15 |      |  |
| P2-5 | VOCs | 5    | 0.12    | 60 | 3.0  |  |
|      |      | 22   | 0.528   |    | 30.2 |  |
|      |      | 9    | 0.216   | 5  |      |  |
|      |      | 2.6  | 0.0634  | 15 |      |  |
|      |      | 0.17 | 0.00038 | 5  | 0.26 |  |

DB37/2376-2013

2

VOCs

6

|  |                     |        |        |        |
|--|---------------------|--------|--------|--------|
|  | VOCs                | 10.139 | 0.6086 | 4.878  |
|  | t/a                 |        |        |        |
|  | SO <sub>2</sub> t/a |        |        | 1.312  |
|  | NO <sub>x</sub> t/a |        |        | 5.393  |
|  | t/a                 | 1.955  | 0.117  | 0.8122 |

|                          |            |            |                             |
|--------------------------|------------|------------|-----------------------------|
| 73.5%                    | Dowtherm A | 258        | 115                         |
| 12.3                     | 528        | 4.02MPa    | 1060kg/m <sup>3</sup> (20℃) |
| 293kJ/kg                 | 40194kJ/kg |            |                             |
|                          |            | 0.99-3.36% |                             |
|                          |            |            | 3B                          |
| 2                        |            |            |                             |
|                          |            |            | 1.1 12.5mg/m <sup>3</sup>   |
| 0.5 6.8mg/m <sup>3</sup> |            |            |                             |
| 135                      | 113        | 102        | 122                         |

200

3.5.2

**1**

6

8 10

6

FDY

**2**

FDY

3.5.3

1

2

20%

3

3.5.4

3.5-1

3.5-1

|  |                   |  |       |                         | kg/t   |
|--|-------------------|--|-------|-------------------------|--------|
|  | m <sup>3</sup> /t |  | 0.829 | 0.086kg/m <sup>3</sup>  | 0.0713 |
|  | kWh/t             |  | 1041  | 0.404kg/kWh             | 420.16 |
|  | t/t               |  | 0.16  | 0.129kg/kg              | 0.021  |
|  | m <sup>3</sup> /t |  | 437.4 | 1.2143kg/m <sup>3</sup> | 531.13 |

3.5-1

3.5.5

3.5.6

3.5.7

3.5-2

3.5-2



|   |  |                                                                                                                                                                                                                                        |
|---|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   |  |                                                                                                                                                                                                                                        |
| 1 |  | <div>GB16297-19962</div> <div>DB37/2376-20132</div> <div>GB14554-9312</div> <div>6</div> <div>DB37/801.6-2018</div> <div>123</div> <div>GB31572-201559</div> <div>GB12348-200834</div> <div>GB18599-2020</div> <div>GB18597-2001</div> |
| 2 |  | 3                                                                                                                                                                                                                                      |
| 3 |  |                                                                                                                                                                                                                                        |
| 4 |  |                                                                                                                                                                                                                                        |
| 5 |  |                                                                                                                                                                                                                                        |
| 6 |  |                                                                                                                                                                                                                                        |

3.5-2

3.5.8

1

2

3

4

4.1

116 °      36 °

40.8km

42.4km                      960km<sup>2</sup>                      9      3                      1                      603

42                      51.4

105    308

2                      2                      308                      107km

316                      56km

70km

50    km

2.2-1

4.2

4.2.1

32.00m    22.00m                      27m                      32.1m

|          |            |            |        |         |
|----------|------------|------------|--------|---------|
|          |            | 4.5        |        |         |
|          |            | 22.6m      | 1/7000 | 1/9000  |
|          |            |            | 3m     |         |
|          |            |            | 56.25% | 17.65%  |
|          | 10.83%     | 6.94%      | 5.11%  |         |
| 3.22%    |            |            |        |         |
|          |            |            |        |         |
|          |            |            |        | 7       |
| 4.2.2    |            |            |        |         |
| 4.2.2.1  |            |            |        |         |
|          |            |            |        | $V_4^8$ |
|          | $V_4^{10}$ | $V_4^{11}$ |        | $V_4^8$ |
|          | -          |            |        |         |
|          | 2000-3500m |            |        |         |
|          |            | 250m       |        |         |
| 1        | (Q)        |            |        |         |
|          |            |            |        |         |
| 240-300m |            |            |        |         |
| 1        | (Q4)       |            |        |         |
|          |            | 12-58m     |        |         |
|          |            | 15m        |        |         |

0.5m

1-2      2-3      1-5m  
 20-30m  
**2**      **(Q1 3)**  
 90-206m

60-70m

3-6m      10m  
 10-20m      50-70m 100-200m  
 150m  
 200m      230m  
**2**      **(N)**

500-800m

300-1000m

**3**      **(E)**

4.2.2.2

II

III

270km      NE10°-30°      NW      40°-70°

-

-

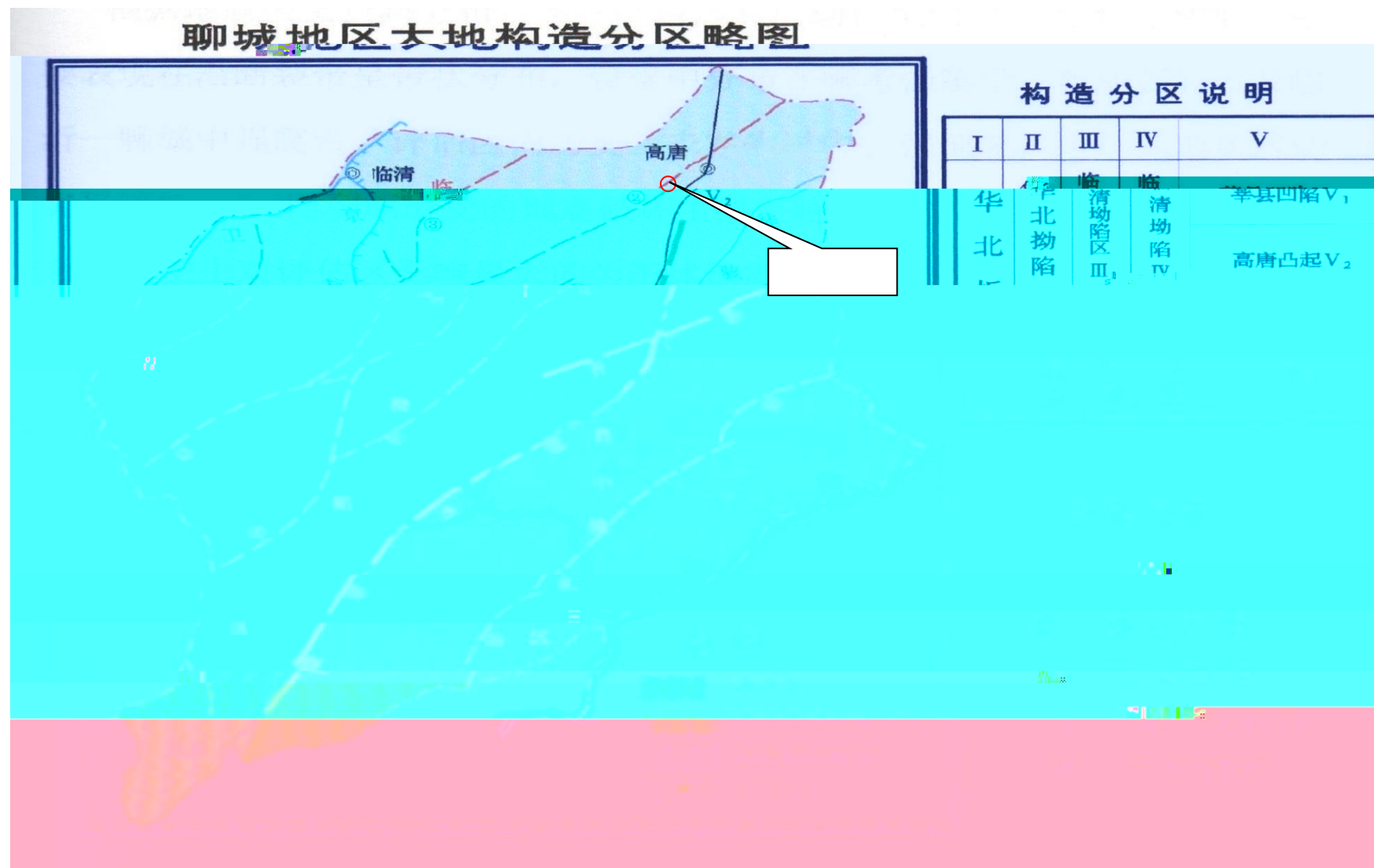
6.3m

800-1000m      6500-7000m      5000-6500m      40°-45°  
55km

145km

III      IV      V

4.2-1



4.2-1

4.2.3

4.2.3.1

**1**

-

**2**



## 4.2.4

17

|                    |      |                      |                       |                       |
|--------------------|------|----------------------|-----------------------|-----------------------|
|                    |      |                      | 4181.2km <sup>2</sup> |                       |
|                    |      |                      | 26km                  | 393.62km <sup>2</sup> |
|                    | 26km | 393.6km <sup>2</sup> | 9                     |                       |
| 100km <sup>2</sup> |      | 100km <sup>2</sup>   |                       |                       |
|                    | 28km | 432.3km <sup>2</sup> | 6                     | 100km <sup>2</sup>    |
|                    |      | 100km <sup>2</sup>   |                       |                       |

## 4.2-2

## 4.2.5

|      |        |         |       |       |              |
|------|--------|---------|-------|-------|--------------|
|      |        | 13.1    |       | 26.6  |              |
| 41.2 | (      | 1958    | 6     | 18    | )            |
|      |        |         |       | -3.0  | -20.8        |
| (    | 1981   | 1       | 26    | )     | 1            |
|      |        |         |       | -3.1  | 7            |
| 26.8 |        | 195     |       | 43cm  | 31cm         |
|      |        | 3.7m/s  |       | 4     | 4.7m/s       |
|      | 8      | 2.5m/s  |       |       |              |
|      |        | 508.8mm | 7     | 8     | 9            |
| 73.2 |        | 975.9mm | 1961  |       | 287.1mm 2002 |
|      |        | 3.4     |       | 1.2mm | 121.6mm      |
|      | 56.1mm |         | 150mm |       | 1644.9mm     |

|              |       |          |        |        |       |  |  |
|--------------|-------|----------|--------|--------|-------|--|--|
| 4.5          |       |          |        |        |       |  |  |
| E601         |       | 1892.3mm |        | 1994   |       |  |  |
| 1368.1mm     | 2007  |          | 10m    | 10     | 24m/s |  |  |
| 2.3m/s       |       | 1.9m/s   |        | 2.3m/s |       |  |  |
| 18%          | 4%    | 18%      |        | 20     | /     |  |  |
| 4.2.6        |       |          |        |        |       |  |  |
| GB18306-2015 |       |          |        |        |       |  |  |
| 0.15g        |       | VII      |        |        |       |  |  |
| 7            |       |          |        |        |       |  |  |
| 4.2.7        |       |          |        |        |       |  |  |
| 142          |       |          | 119    |        |       |  |  |
| 76.79%       | 33.41 |          | 23.21% |        |       |  |  |
| 94.4         |       |          | 65.41% | 8.87   | 6.15% |  |  |
| 7.5          | 5.2%  | 1.46     | 1%     |        |       |  |  |
| 22.32        | 15.5% |          | 11.01  |        | 7.71% |  |  |
|              |       | 18.68    | m³     |        |       |  |  |
| 2.7          |       | m³       | 1.56   | m³     |       |  |  |
| 60m          |       |          |        |        |       |  |  |
| 16.7         | m³    | 15.9     | m³     | 0.8    | m³    |  |  |
| m³           |       |          | 3.9974 |        | m³    |  |  |
| 4.2.8        |       |          |        |        |       |  |  |
| 142          |       |          | 119    |        |       |  |  |
|              |       |          |        |        |       |  |  |
|              |       |          | 83     | 58%    |       |  |  |

|         |        |    |     |
|---------|--------|----|-----|
| 4.5     |        |    |     |
| 19.9    | 14%    |    |     |
|         |        | 40 | 27% |
|         |        | 2  | 3m  |
| 20      | 15%    |    |     |
| 4.2.9   |        |    |     |
| 58715.8 | 338500 | 8% |     |

3.4.1.1

**1**

**1**

54.6

308

0.6

**2**

6.7

|         |      |        |       |
|---------|------|--------|-------|
|         |      | 4.5    |       |
|         | 6.4  |        |       |
|         | 12.1 |        |       |
|         | 7.4  |        |       |
|         | 6.1  |        |       |
|         | 9.8  |        |       |
|         |      | 0.6    | 308   |
|         |      | 0.3    |       |
| 3.4.1.2 |      | 1064.1 | 25.5% |
|         | 30.4 | 13     |       |
|         | 5    |        |       |
|         | 2.0  |        |       |
| 3.4.1.3 |      |        |       |
| 1       |      |        |       |
|         |      | 333.4  | 8.0%  |
|         | 9.5  |        |       |

|     |       |   |      |     |
|-----|-------|---|------|-----|
|     | 4.5   |   |      |     |
|     | 0.8   |   |      |     |
| 0.6 |       |   |      |     |
|     | 0.4   |   |      |     |
|     | 13    |   |      |     |
| 15  |       |   | 2-3  |     |
| 2   |       |   |      |     |
|     | 47.6  |   | 1.1% | 1.4 |
| 3   |       |   |      |     |
|     | 22.2  |   | 0.5% |     |
| 0.6 |       |   |      |     |
| 4   |       |   |      |     |
|     | 146.8 |   | 3.5% |     |
| 4.2 |       |   |      |     |
| 5   |       |   |      |     |
|     | 37.4  |   | 0.9% | 1.1 |
| 6   |       |   |      |     |
|     | 60    |   | 1.4% | 1.7 |
| 7   |       |   |      |     |
|     | 5     | / |      | 2 / |



2018~2035

**4.4-1**

4.4.2

2014 12

[2014]220

2008

23km<sup>2</sup>

316

-

322

**4.4-2**



## 4.5

## 4.5.1

## 4.5.1.1

## 1

2020

3.5-1

4.5-1

|  | SO <sub>2</sub> | NO <sub>2</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> | CO                   | O <sub>3</sub> |
|--|-----------------|-----------------|------------------|-------------------|----------------------|----------------|
|  |                 |                 |                  |                   | 24<br>95             | 8<br>90        |
|  | 17              | 39              | 106              | 62                | 1.7mg/m <sup>3</sup> | 185            |
|  | 60              | 40              | 70               | 35                | 4 mg/m <sup>3</sup>  | 160            |

2019

SO<sub>2</sub> NO<sub>2</sub>

CO 24

95

GB3095-2012

PM<sub>10</sub>PM<sub>2.5</sub>O<sub>3</sub>

8

90

GB3095-2012

PM<sub>2.5</sub> PM<sub>10</sub>O<sub>3</sub>

## 2

HJ2.2-2018

3.5-1

2019

PM<sub>10</sub>PM<sub>2.5</sub>O<sub>3</sub>

8

90

GB3095-2012

## 4.5.1.2

## 1

S

HJ2.2-2018

2

4.5-2

4.5-1

4.5-2

|    |  |    |     |     |  |
|----|--|----|-----|-----|--|
|    |  |    | m   |     |  |
| 1# |  | N  | 40  | TSP |  |
|    |  | W  | 130 |     |  |
| 2# |  | N  | 100 |     |  |
|    |  | NE | 660 |     |  |

2

TSP

9

3

2022    1    18    ~1    25

7

|  |    |                 |                       |
|--|----|-----------------|-----------------------|
|  | 4- | HJ/T 32-1999    | 0.3mg/m <sup>3</sup>  |
|  |    | GB/T 15516-1995 | 0.01mg/m <sup>3</sup> |

## 5

4.5-4

4.5-5

4.5-6

4.5-4

|                           |       |   | (m/s) | ( )  | (kPa)  |  | /    |
|---------------------------|-------|---|-------|------|--------|--|------|
| 2022.01.18-<br>2022.01.19 | 13:48 | S | 1.6   | 7.3  | 100.34 |  | 10/7 |
|                           | 19:44 | S | 1.5   | -3.2 | 102.27 |  | /    |
|                           | 01:42 | S | 1.2   | -3.5 | 102.35 |  | /    |
|                           | 07:40 | S | 2.1   | 0.2  | 101.46 |  | 10/8 |
| 2022.01.18-<br>2022.01.19 | 13:48 | S | 1.6   | 7.3  | 100.34 |  | 10/7 |
|                           | 19:47 | S | 1.4   | -3.2 | 102.27 |  | /    |
|                           | 01:47 | S | 1.3   | -3.7 | 102.35 |  | /    |
|                           | 07:46 | S | 2.1   | 0.2  | 101.46 |  | 10/8 |
| 2022.01.19-<br>2022.01.20 | 13:45 | S | 1.9   | 5.6  | 102.17 |  | 10/7 |
|                           | 20:00 | S | 2.3   | -2.9 | 102.32 |  | /    |
|                           | 01:50 | S | 1.7   | -6.3 | 102.50 |  | /    |
|                           | 07:45 | S | 2.0   | -6.2 | 102.63 |  | 9/6  |
| 2022.01.19-<br>2022.01.20 | 14:02 | S | 1.9   | 5.7  | 102.16 |  | 10/7 |
|                           | 20:25 | S | 2.3   | -2.8 | 102.33 |  | /    |
|                           | 02:17 | S | 1.7   | -6.3 | 102.50 |  | /    |
|                           | 07:56 | S | 2.0   | -6.2 | 102.63 |  | 9/6  |
| 2022.01.20-<br>2022.01.21 | 13:50 | S | 1.3   | 1.2  | 103.21 |  | 10/7 |
|                           | 19:48 | S | 1.1   | -2.1 | 102.24 |  | /    |
|                           | 01:49 | S | 1.0   | -4.7 | 103.31 |  | /    |
|                           | 07:50 | S | 1.1   | -4.5 | 103.31 |  | 10/7 |
| 2022.01.20-<br>2022.01.21 | 13:50 | S | 1.4   | 1.3  | 102.21 |  | 10/7 |
|                           | 19:50 | S | 1.2   | -2.2 | 103.24 |  | /    |
|                           | 01:50 | S | 1.1   | -4.6 | 103.31 |  | /    |
|                           | 07:50 | S | 1.2   | -4.5 | 103.31 |  | 10/9 |
| 2022.01.21-               | 13:46 | S | 1.8   | 2.7  | 102.24 |  | 10/7 |

|                           |       |   |     |      |        |  |      |
|---------------------------|-------|---|-----|------|--------|--|------|
| 2022.01.22                | 19:48 | S | 1.9 | -2.7 | 102.31 |  | /    |
|                           | 01:49 | S | 2.1 | -5.9 | 102.49 |  | /    |
|                           | 07:48 | S | 1.9 | -6.3 | 102.52 |  | 9/7  |
| 2022.01.21-<br>2022.01.22 | 13:47 | S | 1.8 | 2.7  | 102.24 |  | 10/7 |
|                           | 19:49 | S | 1.9 | -2.7 | 102.31 |  | /    |
|                           | 01:49 | S | 2.1 | -5.9 | 102.49 |  | /    |
|                           | 07:49 | S | 1.9 | -6.3 | 102.52 |  | 9/7  |
| 2022.01.23-<br>2022.01.24 | 10:27 | S | 2.6 | 1.6  | 102.52 |  | 10/7 |
|                           | 13:50 | S | 1.5 | 1.8  | 102.52 |  | 10/7 |
|                           | 19:50 | S | 1.2 | 0.6  | 102.53 |  | /    |
|                           | 01:48 | S | 1.4 | -2.9 | 102.56 |  | /    |
|                           | 07:50 | S | 1.1 | -4.2 | 102.58 |  | 10/8 |
| 2022.01.23-<br>2022.01.24 | 10:27 | S | 2.0 | 1.5  | 102.53 |  | 10/7 |
|                           | 13:48 | S | 1.5 | 1.8  | 102.52 |  | 10/7 |
|                           | 19:47 | S | 1.2 | 0.6  | 102.53 |  | /    |
|                           | 01:48 | S | 1.4 | -2.9 | 102.56 |  | /    |
|                           | 07:47 | S | 1.1 | -4.2 | 102.58 |  | 10/8 |
| 2022.01.24-<br>2022.01.25 | 14:00 | S | 1.9 | 2.6  | 102.29 |  | 10/7 |
|                           | 19:45 | S | 1.6 | 1.5  | 102.30 |  | /    |
|                           | 01:45 | S | 1.7 | -1.8 | 102.33 |  | /    |
|                           | 07:45 | S | 2.0 | 0.4  | 102.34 |  | 10/8 |
| 2022.01.24-<br>2022.01.25 | 13:52 | S | 1.9 | 2.6  | 102.29 |  | 10/7 |
|                           | 19:58 | S | 1.6 | 1.5  | 102.30 |  | /    |
|                           | 02:31 | S | 1.7 | -1.8 | 102.33 |  | /    |
|                           | 07:51 | S | 2.0 | 0.4  | 102.34 |  | 10/8 |
| 2022.01.25-<br>2022.01.26 | 13:31 | S | 1.3 | 4.3  | 102.12 |  | 3/1  |
|                           | 19:50 | S | 1.2 | -1.2 | 102.21 |  | /    |
|                           | 01:48 | S | 1.1 | -4.1 | 102.51 |  | /    |
|                           | 07:50 | S | 1.2 | -4.0 | 102.51 |  | 3/1  |
| 2022.01.25-<br>2022.01.26 | 13:48 | S | 1.3 | 4.5  | 102.14 |  | 3/1  |
|                           | 19:50 | S | 1.2 | -1.2 | 102.20 |  | /    |
|                           | 01:52 | S | 1.2 | -4.2 | 102.50 |  | /    |
|                           | 07:50 | S | 1.2 | -4.0 | 102.51 |  | 3/1  |

4.5-5 1

mg/m<sup>3</sup>

|        |                         |       |       |       |       | NH <sub>3</sub> |       |       |       |       |       |       |       |
|--------|-------------------------|-------|-------|-------|-------|-----------------|-------|-------|-------|-------|-------|-------|-------|
|        |                         | 14:00 | 20:00 | 02:00 | 08:00 | 14:00           | 20:00 | 02:00 | 08:00 | 14:02 | 20:01 | 02:01 | 08:02 |
| 1<br># | 2022.1.18-<br>2022.1.19 |       |       |       |       |                 | 0.02  | 0.03  | 0.02  | 0.54  | 1.02  | 1.04  | 0.95  |
|        | 2022.1.19-<br>2022.1.20 |       |       |       |       |                 | 0.02  | 0.03  | 0.02  | 0.39  | 1.20  | 1.12  | 0.87  |
|        | 2022.1.20-<br>2022.1.21 |       |       |       |       |                 | 0.02  | 0.02  | 0.02  | 0.70  | 1.02  | 0.95  | 0.67  |
|        | 2022.1.21-<br>2022.1.22 |       |       |       |       |                 | 0.02  | 0.02  | 0.02  | 0.84  | 0.34  | 0.45  | 0.58  |
|        |                         |       |       |       |       |                 | 0.02  | 0.02  | 0.02  | 0.29  | 0.96  | 0.76  | 0.77  |

|        |                         | 14:00 | 20:00 | 02:00 | 08:00 | 14:00 | 20:00 | 02:00 | 08:00 | 14:02 | 20:01 | 02:01 | 08:02 |
|--------|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2<br># | 2022.1.18-<br>2022.1.19 |       |       |       |       |       |       |       |       |       |       |       |       |
|        | 2022.1.19-<br>2022.1.20 |       |       |       |       |       |       |       |       |       |       |       |       |
|        | 2022.1.20-<br>2022.1.21 |       |       |       |       |       |       |       |       |       |       |       |       |
|        | 2022.1.21-<br>2022.1.22 |       |       |       |       |       |       |       |       |       |       |       |       |
|        | 2022.1.23-<br>2022.1.24 |       |       |       |       |       |       |       |       |       |       |       |       |
|        | 2022.1.24-<br>2022.1.25 |       |       |       |       |       |       |       |       |       |       |       |       |
|        | 2022.1.25-<br>2022.1.26 |       |       |       |       |       |       |       |       |       |       |       |       |

4.5-5 3

mg/m<sup>3</sup>

|    |                         |       |       |       |       | TSP   | ( )   |       |       |       |
|----|-------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|    |                         | 14:00 | 20:00 | 02:00 | 08:00 |       | 14:08 | 20:06 | 02:08 | 08:06 |
| 1# | 2022.1.18-<br>2022.1.19 |       |       |       | 0.004 | 0.113 | 11    | 12    | 14    | 14    |
|    | 2022.1.19-<br>2022.1.20 |       |       |       |       | 0.136 | 11    | 13    | 14    | 14    |
|    | 2022.1.20-<br>2022.1.21 | 0.004 | 0.004 |       |       | 0.165 | 11    | 14    | 14    | 13    |
|    | 2022.1.21-<br>2022.1.22 |       |       |       |       | 0.172 | 11    | 13    | 14    | 13    |
|    | 2022.1.23-<br>2022.1.24 |       |       | 0.004 |       | 0.149 | 11    | 12    | 13    | 13    |
|    | 2022.1.24-<br>2022.1.25 |       |       |       |       | 0.136 | 11    | 14    | 15    | 13    |
|    | 2022.1.25-<br>2022.1.26 |       |       |       |       | 0.155 | 11    | 13    | 14    | 14    |
|    |                         | 14:00 | 20:00 | 02:00 | 08:00 |       | 14:09 | 20:06 | 02:06 | 08:09 |
| 2# | 2022.1.18-<br>2022.1.19 | 0.004 |       | 0.004 | 0.004 | 0.159 | 11    | 13    | 12    | 14    |
|    | 2022.1.19-<br>2022.1.20 |       | 0.004 | 0.004 |       | 0.155 | 12    | 15    | 13    | 13    |
|    | 2022.1.20-<br>2022.1.21 | 0.004 | 0.004 | 0.004 | 0.004 | 0.132 | 12    | 14    | 13    | 14    |
|    | 2022.1.21-<br>2022.1.22 |       |       |       |       | 0.147 | 12    | 14    | 14    | 13    |
|    | 2022.1.23-<br>2022.1.24 |       | 0.004 | 0.004 | 0.004 | 0.168 | 11    | 14    | 14    | 13    |
|    | 2022.1.24-<br>2022.1.25 |       |       |       |       | 0.182 | 11    | 15    | 12    | 13    |
|    | 2022.1.25-<br>2022.1.26 |       | 0.004 | 0.004 | 0.004 | 0.126 | 12    | 14    | 13    | 14    |

4.5

3.5

4.5.1.3

1

TSP

2

GB3095-2012

(HJ2.2-2018) D 1.4-2

3

$$P_i = \frac{C_i}{C_{0i}}$$

C<sub>i</sub> i mg/m<sup>3</sup>

C<sub>0i</sub> i mg/m<sup>3</sup>

P<sub>i</sub> i

4

4.5-7

4.5-7

|    |                 |           | % |   |           | % |   |
|----|-----------------|-----------|---|---|-----------|---|---|
| 1# | TSP             |           |   |   | 0.38~0.55 | 0 | 0 |
|    | NH <sub>3</sub> | 0.03~0.15 | 0 | 0 |           |   |   |
|    |                 | 0.10~0.60 | 0 | 0 |           |   |   |
| 2# | TSP             |           |   |   | 0.42~0.61 | 0 | 0 |
|    | NH <sub>3</sub> | 0.03~0.15 | 0 | 0 |           |   |   |
|    |                 | 0.20~0.65 | 0 | 0 |           |   |   |

4.5-7

(HJ2.2-2018) D TSP GB3095-2012

p244

4.5.1.4



2021-2022

( )

7                      0.8  
2022

,

( )

2    3.6                      2021    12

,

10    /

+

SCR

---

( ) VOCs

VOCs 10  
2021 12

VOCs

VOCs

( )

( )

7 /

( )

( )  
2021 12

VOCs

VOCs

65%

2021

( )

30P2122530TQ MC /P A

## 4.5-9

|    |    |                                                                                                                                                                                                       |                     |                |
|----|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----------------|
|    |    |                                                                                                                                                                                                       |                     |                |
| 1  |    |                                                                                                                                                                                                       | GB/T<br>13195-1991  | /              |
| 2  |    |                                                                                                                                                                                                       | HJ 506-2009         | /              |
| 3  | pH | pH                                                                                                                                                                                                    | HJ 1147-2020        | /              |
| 4  |    |                                                                                                                                                                                                       | GB/T<br>11901-1989  | /              |
| 5  |    |                                                                                                                                                                                                       | HJ 828-2017         | 4mg/L          |
| 6  |    | BOD <sub>5</sub>                                                                                                                                                                                      | HJ 505-2009         | 0.5mg/L        |
| 7  |    |                                                                                                                                                                                                       | GB/T<br>11893-1989  | 0.01mg/L       |
| 8  |    |                                                                                                                                                                                                       | HJ 535-2009         | 0.025mg/L      |
| 9  |    |                                                                                                                                                                                                       | HJ 636-2012         | 0.05mg/L       |
| 10 |    |                                                                                                                                                                                                       | GB/T 7475-1987      | 0.05mg/L       |
| 11 |    |                                                                                                                                                                                                       |                     | 0.05mg/L       |
| 12 |    | 9.1                                                                                                                                                                                                   | GB/T<br>5750.6-2006 | 0.5 µg/L       |
| 13 |    |                                                                                                                                                                                                       | HJ 694-2014         | 0.3 µg/L       |
| 14 |    |                                                                                                                                                                                                       |                     | 0.4 µg/L       |
| 15 |    |                                                                                                                                                                                                       |                     | 0.4 µg/L       |
| 16 |    |                                                                                                                                                                                                       | GB/T 7467-1987      | 0.004mg/L      |
| 17 |    |                                                                                                                                                                                                       | GB/T 7493-1987      | 0.003mg/L      |
| 18 |    |                                                                                                                                                                                                       | HJ/T 346-2007       | 0.08mg/L       |
| 19 |    |                                                                                                                                                                                                       | HJ/T 51-1999        | /              |
| 20 |    | F <sup>-</sup> Cl <sup>-</sup> NO <sub>2</sub> <sup>-</sup> Br <sup>-</sup> NO <sub>3</sub> <sup>-</sup><br>PO <sub>4</sub> <sup>3-</sup> SO <sub>3</sub> <sup>2-</sup> SO <sub>4</sub> <sup>2-</sup> | HJ 84-2016          | 0.007mg/L      |
| 21 |    |                                                                                                                                                                                                       |                     | 0.018mg/L      |
| 22 |    |                                                                                                                                                                                                       | GB/T 7484-1987      | 0.05mg/L       |
| 23 |    |                                                                                                                                                                                                       | HJ 484-2009         | 0.004mg/L      |
| 24 |    |                                                                                                                                                                                                       | GB/T<br>11892-1989  | 0.5mg/L        |
| 25 |    | 4-                                                                                                                                                                                                    | HJ 503-2009         | 0.0003mg/<br>L |
| 26 |    |                                                                                                                                                                                                       | HJ 970-2018         | 0.01mg/L       |

|    |   |              |                     |           |
|----|---|--------------|---------------------|-----------|
| 27 |   |              | GB/T<br>16489-1996  | 0.005mg/L |
| 28 |   |              | HJ 601-2011         | 0.05mg/L  |
| 29 |   | /            | HJ 639-2012         | 0.4       |
| 30 |   |              |                     | 0.3       |
| 31 |   |              |                     | 0.2       |
| 32 | + |              |                     | 0.5       |
| 33 |   | 11.1<br>11.2 | GB/T<br>5750.6-2006 | 2.5       |
| 34 |   |              | HJ 755-2015         | 20MPN/L   |

4.5-10

4.5-10

|                          | 1#        |      |           |      |           |      | 2#        |      |           |      |           |      |
|--------------------------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|
|                          | 2022.1.20 |      | 2022.1.21 |      | 2022.1.23 |      | 2022.1.20 |      | 2022.1.21 |      | 2022.1.22 |      |
|                          |           |      |           |      |           |      |           |      |           |      |           |      |
|                          | 1.0       | 1.0  | 1.1       | 1.1  | 2.8       | 2.9  | 1.0       | 1.0  | 1.3       | 1.2  | 3.4       | 3.4  |
| m                        | 0.5       | 0.5  | 0.5       | 0.5  | 0.5       | 0.5  | 0.5       | 0.5  | 0.6       | 0.6  | 0.6       | 0.6  |
| m                        | 7         | 7    | 7         | 7    | 7         | 7    | 7         | 7    | 7         | 7    | 7         | 7    |
| m <sup>3</sup> /h        | 0.04      | 0.04 | 静流        | 静流   | 0.08      | 0.08 | 0.04      | 0.04 | 0.04      | 0.04 | 0.08      | 0.08 |
| pH 值                     | 7.1       | 7.1  | 7.2       | 7.2  | 7.2       | 7.3  | 7.1       | 7.2  | 7.1       | 7.3  | 7.3       | 7.3  |
| COD <sub>Cr</sub> (mg/L) | 24        | 21   | 27        | 23   | 25        | 20   | 23        | 26   | 21        | 26   | 25        | 28   |
| BOD <sub>5</sub> (mg/L)  | 5.0       | 4.2  | 5.2       | 4.6  | 5.2       | 4.4  | 5.2       | 5.4  | 4.6       | 4.8  | 5.0       | 4.6  |
| SS (mg/L)                | 13        | 10   | 19        | 12   | 16        | 11   | 15        | 17   | 12        | 16   | 15        | 19   |
| 氨氮 (mg/L)                | 1.41      | 1.44 | 1.42      | 1.43 | 1.40      | 1.42 | 1.04      | 1.07 | 1.02      | 1.09 | 1.08      | 1.05 |
| 总磷 (mg/L)                | 0.39      | 0.40 | 0.46      | 0.48 | 0.42      | 0.43 | 0.52      | 0.51 | 0.55      | 0.56 | 0.58      | 0.59 |
| 总氮 (mg/L)                | 4.81      | 5.05 | 5.13      | 5.10 | 5.28      | 5.13 | 4.83      | 4.88 | 4.75      | 4.80 | 4.96      | 4.83 |
| 溶解氧 (mg/L)               | 5.6       | 5.7  | 5.6       | 5.6  | 5.8       | 5.9  | 5.5       | 5.4  | 5.6       | 5.5  | 5.7       | 5.7  |
| 铜 (mg/L)                 | 未         | 未    | 未         | 未    | 未         | 未    | 未         | 未    | 未         | 未    | 未         | 未    |
| 锌 (mg/L)                 | 未         | 未    | 未         | 未    | 未         | 未    | 未         | 未    | 未         | 未    | 未         | 未    |
| (mg/L)                   | 未         | 未    | 未         | 未    | 未         | 未    | 未         | 未    | 未         | 未    | 未         | 未    |
| 砷 (mg/L)                 | 未         | 未    | 未         | 未    | 未         | 未    | 未         | 未    | 未         | 未    | 未         | 未    |
| 汞 (mg/L)                 | 未         | 未    | 未         | 未    | 未         | 未    | 未         | 未    | 未         | 未    | 未         | 未    |
| 镉 (mg/L)                 | 未         | 未    | 未         | 未    | 未         | 未    | 未         | 未    | 未         | 未    | 未         | 未    |

|               |       |       |       |       |       |       |       |       |       |       |       |       |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 六价铬 (mg/L)    | 未     | 未     | 未     | 未     | 未     | 未     | 未     | 未     | 未     | 未     | 未     | 未     |
| 铅 ( μ g/L)    | 33.8  | 34.0  | 34.4  | 32.0  | 35.8  | 35.4  | 33.7  | 32.3  | 34.7  | 31.6  | 35.4  | 31.3  |
| 硝酸盐 (mg/L)    | 4.11  | 4.03  | 4.10  | 4.15  | 4.10  | 4.09  | 4.23  | 4.16  | 4.02  | 4.06  | 4.16  | 4.15  |
| 亚硝酸盐 (mg/L)   | 0.113 | 0.117 | 0.113 | 0.115 | 0.113 | 0.117 | 0.180 | 0.180 | 0.176 | 0.170 | 0.174 | 0.172 |
| 氯化物 (mg/L)    | 408   | 418   | 363   | 374   | 360   | 365   | 448   | 458   | 441   | 442   | 457   | 462   |
| (mg/L)        | 1.19  | 1.16  | 1.41  | 1.28  | 1.28  | 1.12  | 1.32  | 1.28  | 1.16  | 1.22  | 1.22  | 1.32  |
| 氰化物 (mg/L)    |       |       | 未     | 未     | 未     | 未     | 未     | 未     | 未     | 未     | 未     | 未     |
| 高锰酸盐指数 (mg/L) | 5.4   | 4.8   | 5.6   | 4.9   | 5.4   | 4.7   | 5.5   | 5.3   | 5.7   | 5.3   | 5.4   | 5.1   |
| 硫酸盐 (mg/L)    | 220   | 218   | 220   | 22    | 230   | 232   | 218   | 212   | 202   | 202   | 217   | 192   |
| 全盐量 (mg/L)    | 1620  | 1500  | 1760  | 1190  | 1600  | 1370  | 1630  | 1500  | 1850  | 1280  | 1770  | 1470  |
| 挥发酚 (mg/L)    |       |       | 未     |       | 未     | 未     | 未     | 未     | 未     | 未     | 未     | 未     |
| 石油类 (mg/L)    | 0.02  | 0.03  | 0.03  | 0.02  | 0.03  | 0.03  | 0.02  | 0.02  | 0.03  | 0.03  | 0.02  | 0.03  |

## 4.5.2.2

1

pH SS COD<sub>Cr</sub> BOD<sub>5</sub>

15

14

2

GB3838-2002

GB 3838-2002 2

SS GB5084-2021 1

1.4-3

3

1 ( )

$$S_{i,j} = \frac{C_{i,j}}{C_{s,i}}$$

 $S_{i,j}$   $S_{i,j} - 1$   $S_{i,j} - 1$ 
 $C_{i,j}$   $i$   $j$  mg/l

 $C_{s,i}$   $i$  mg/l

2 --pH

$$S_{pH,j} = \frac{7.0 - pH_j}{7.0 - pH_{sd}} \quad pH_j \leq 7.0$$

$$S_{pH,j} = \frac{pH_j - 7.0}{pH_{su} - 7.0} \quad pH_j > 7.0$$

 $S_{pHj}$  pH

 $pH_j$  pH

 $pH_{sd}$  pH

 $pH_{su}$  pH

3

$$S_{DO_j} = |DO_f - DO_j| / (DO_f - DO_s) \quad DO_j \geq DO_s$$



$$S_{DO_j} = 10 - 9 \frac{DO_j}{DO_s}$$
$$DO_j < DO_s$$
$$S_{DO_j} \quad DO$$
$$DO_f \quad \text{mg/L}$$
$$DO_f = 468 / (31.6 + T) \quad T$$
$$DO_j \quad \text{mg/L}$$
$$DO_s \quad \text{mg/L}$$

4

4.5-11

4.5-11

|    | 1#        |      |           |      |           |      | 2#        |      |           |      |           |      |
|----|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|
|    | 2022.1.20 |      | 2022.1.21 |      | 2022.1.23 |      | 2022.1.20 |      | 2022.1.21 |      | 2022.1.22 |      |
|    |           |      |           |      |           |      |           |      |           |      |           |      |
| pH | 0.05      | 0.05 | 0.10      | 0.10 | 0.10      | 0.15 | 0.05      | 0.10 | 0.05      | 0.15 | 0.15      | 0.15 |
|    | 0.80      | 0.70 | 0.90      | 0.77 | 0.83      | 0.67 | 0.77      | 0.87 | 0.70      | 0.87 | 0.83      | 0.93 |
|    | 0.83      | 0.70 | 0.87      | 0.77 | 0.87      | 0.73 | 0.87      | 0.90 | 0.77      | 0.80 | 0.83      | 0.77 |
| SS | 0.13      | 0.10 | 0.19      | 0.12 | 0.16      | 0.11 | 0.15      | 0.17 | 0.12      | 0.16 | 0.15      | 0.19 |
|    | 0.94      | 0.96 | 0.95      | 0.95 | 0.93      | 0.95 | 0.69      | 0.71 | 0.68      | 0.73 | 0.72      | 0.70 |
|    | 1.30      | 1.33 | 1.53      | 1.60 | 1.40      | 1.43 | 1.73      | 1.70 | 1.83      | 1.87 | 1.93      | 1.97 |
|    | 0.77      | 0.76 | 0.77      | 0.77 | 0.74      | 0.73 | 0.78      | 0.79 | 0.77      | 0.78 | 0.74      | 0.74 |

## 4.5.2.3

2021

2019

2020 5

2020

A<sup>2</sup>O



|    |  |    |       |  |
|----|--|----|-------|--|
|    |  |    | m     |  |
| 1# |  | S  | 145   |  |
|    |  | SW | 545   |  |
| 2# |  | -- | --    |  |
| 3# |  | -- | --    |  |
| 4# |  | N  | 40    |  |
|    |  | W  | 130   |  |
| 5# |  | SW | 660   |  |
|    |  | N  | 100   |  |
| 6# |  | SW | 790   |  |
|    |  | SW | 1420  |  |
| 7# |  | W  | 950   |  |
|    |  | W  | 1600  |  |
| 8# |  | NW | 12900 |  |
|    |  | N  | 765   |  |

|   |    |    |                 |      |
|---|----|----|-----------------|------|
|   |    |    |                 |      |
| 1 | pH | pH | HJ 1147-2020    | /    |
| 2 |    |    | GB/T 13195-1991 | /    |
| 3 |    |    | HJ 694-2014     | 0.3  |
| 4 |    |    |                 | 0.04 |

|    |  |                                                                                                                        |                  |           |
|----|--|------------------------------------------------------------------------------------------------------------------------|------------------|-----------|
| 5  |  | GB/T 5750.4-2006<br>7.1                                                                                                |                  | 1.0mg/L   |
| 6  |  | 8.1                                                                                                                    | GB/T 5750.4-2006 | /         |
| 7  |  |                                                                                                                        | HJ 535-2009      | 0.025mg/L |
| 8  |  |                                                                                                                        | GB/T 11911-1989  | 0.03mg/L  |
| 9  |  |                                                                                                                        |                  | 0.01mg/L  |
| 10 |  | 4.1<br>4.2                                                                                                             | GB/T 5750.6-2006 | 5         |
| 11 |  | 5.1                                                                                                                    | GB/T 5750.6-2006 | 0.05mg/L  |
| 12 |  | 9.1<br>9.2                                                                                                             | GB/T 5750.6-2006 | 0.5       |
| 13 |  | 11.1<br>11.2                                                                                                           | GB/T 5750.6-2006 | 2.5       |
| 14 |  | 1.1 S                                                                                                                  | GB/T 5750.6-2006 | 0.008mg/L |
| 15 |  | 9.1 4-                                                                                                                 | GB/T 5750.4-2006 | 0.002mg/L |
| 16 |  |                                                                                                                        | GB/T 7494-1987   | 0.05mg/L  |
| 17 |  |                                                                                                                        | GB/T 16489-1996  | 0.005mg/L |
| 18 |  |                                                                                                                        | GB/T 7484-1987   | 0.05mg/L  |
| 19 |  |                                                                                                                        | HJ 484-2009      | 0.004mg/L |
| 20 |  | 1.1                                                                                                                    | GB/T 5750.7-2006 | 0.05mg/L  |
| 21 |  |                                                                                                                        | GB/T 7493-1987   | 0.003mg/L |
| 22 |  |                                                                                                                        | HJ/T 346-2007    | 0.08mg/L  |
| 23 |  | F <sup>-</sup> Cl <sup>-</sup> Br <sup>-</sup>                                                                         | HJ 84-2016       | 0.007mg/L |
| 24 |  | NO <sub>3</sub> <sup>-</sup> PO <sub>4</sub> <sup>3-</sup> SO <sub>3</sub> <sup>2-</sup> SO <sub>4</sub> <sup>2-</sup> |                  | 0.018mg/L |
| 25 |  | /                                                                                                                      | HJ 639-2012      | 0.4       |
| 26 |  |                                                                                                                        |                  | 0.4       |
| 27 |  |                                                                                                                        |                  | 0.2       |

|     |                 |      |                  |          |  |
|-----|-----------------|------|------------------|----------|--|
| 4.5 |                 |      |                  |          |  |
| 28  | +               |      |                  |          |  |
| 29  |                 |      | HJ 601-2011      | 0.05mg/L |  |
|     | Na <sup>+</sup> | 22.1 | GB/T 5750.6-2006 | 0.01mg/L |  |

|      |                    |                    |                    |                    |                    |
|------|--------------------|--------------------|--------------------|--------------------|--------------------|
|      | 4.5                |                    |                    |                    |                    |
| mg/L | $3.15 \times 10^3$ | $2.62 \times 10^3$ | $2.25 \times 10^3$ | $2.73 \times 10^3$ | $2.71 \times 10^3$ |



2

GB/T14848-2017

1.5-4

3

$Pi=Ci/Si$

Pi

Ci                      i                      mg/L

Si                      i                      mg/L

pH

$Pi=(7.0-pH)/(7.0-pH_{sd})$

pH>7               $Pi= (pH -7.0)/(pH_{su}-7.0)$

Pi    pH

pH    pH

pH<sub>sd</sub>                      pH

pH<sub>su</sub>                      pH

4

4.5-17

4.5-17

|    | 2022.1.24 |      | 2022.1.18 |      |      |
|----|-----------|------|-----------|------|------|
|    | 1#        | 2#   | 3#        | 4#   | 5#   |
| pH | 0.07      | 0.07 | 0.07      | 0.00 | 0.00 |
|    | 3.53      | 3.42 | 2.32      | 3.61 | 3.76 |
|    | 3.15      | 2.62 | 2.25      | 2.73 | 2.71 |
|    | 0.47      | 0.50 | 0.55      | 0.48 | 0.45 |



|  |       |       |       |       |       |
|--|-------|-------|-------|-------|-------|
|  | 0.05  | 0.40  | 0.05  | 0.05  | 0.73  |
|  | 0.40  | 0.40  | 0.05  | 0.60  | 0.70  |
|  | 0.045 | 0.008 | 0.003 | 0.003 | 0.003 |
|  | 0.400 | 0.740 | 0.025 | 0.025 | 0.025 |
|  | 0.84  | 0.86  | 0.03  | 0.90  | 0.93  |
|  | 0.03  | 0.01  | 0.26  | 0.01  | 0.01  |
|  | 0.30  | 0.36  | 0.88  | 0.54  | 0.44  |
|  | 3.29  | 2.99  | 2.80  | 2.57  | 2.93  |
|  | 4.32  | 2.76  | 2.60  | 3.07  | 2.83  |
|  | 0.62  | 0.90  | 0.70  | 0.78  | 0.81  |

5

GB/T14848-2017

4.5.4

4.5.4.1

1

1m

6

4.5-18

4.5-4

4.5-18

|     |  |  |  |
|-----|--|--|--|
|     |  |  |  |
| 1#  |  |  |  |
| 2#  |  |  |  |
| 3#  |  |  |  |
| 4#  |  |  |  |
| 5#  |  |  |  |
| 6#  |  |  |  |
| 7#  |  |  |  |
| 8#  |  |  |  |
| 9#  |  |  |  |
| 10# |  |  |  |
| 11# |  |  |  |

2

L<sub>Aeq</sub>

2022    1    19   -1   20                  2

4

4.5-19 dB(A)

#### 4.5.4.2

GB3096-2008 3

65dB(A)      55dB(A)

|             |   |         |         |
|-------------|---|---------|---------|
| GB3096-2008 | 2 | 60dB(A) | 50dB(A) |
|-------------|---|---------|---------|

|   |        |
|---|--------|
| A | Leq(A) |
|---|--------|

$$P = L_{eq} - L_b$$

P                      dB(A)

| Leq | A | dB(A) |
|-----|---|-------|
|-----|---|-------|

L<sub>b</sub> dB(A)

3

4.5-20

4.5-20 dB(A)

|     |    | LAeq | Lb | P     | LAeq | Lb | P     |
|-----|----|------|----|-------|------|----|-------|
|     | 1# | 57.4 | 65 | -7.6  | 47.1 | 55 | -7.9  |
|     | 2# | 58.6 |    | -6.4  | 47.7 |    | -7.3  |
|     | 3# | 57.7 |    | -7.3  | 47.1 |    | -7.9  |
|     | 4# | 58.9 |    | -6.1  | 47.8 |    | -7.2  |
|     | 5# | 52.0 |    | -13   | 44.0 |    | -11   |
|     | 6# | 52.7 |    | -12.3 | 44.6 |    | -10.4 |
|     | 7# | 57.1 |    | -7.9  | 46.7 |    | -8.3  |
|     | 8# | 55.4 |    | -9.6  | 46.4 |    | -8.6  |
| 9#  |    | 50.6 | 60 | -9.4  | 40.1 | 50 | -9.9  |
| 10# |    | 49.9 |    | -10.1 | 40.5 |    | -9.5  |
| 11# |    | 53.4 |    | -6.6  | 43.2 |    | -6.8  |

4.5-20

GB3096-2008 3

GB3096-2008 2

4.5.5

4.5.5.1

1

HJ964-2018

10

4.5-21 4.5-5

4.5-21

|    |      |          |         |        |                   |  |  |
|----|------|----------|---------|--------|-------------------|--|--|
|    |      |          |         |        |                   |  |  |
| 1# | 100m | 116.193E | 36.841N | 0~0.2m | GB15618-2018<br>+ |  |  |

2# 100m 116.199E 36.850N 0~0.2m

|     |  |          |         |                              |                   |  |  |
|-----|--|----------|---------|------------------------------|-------------------|--|--|
|     |  |          |         | 0.5~1.5m<br>1.5~3m           | +                 |  |  |
| 4#  |  | 116.194E | 36.843N | 0~0.5m<br>0.5~1.5m<br>1.5~3m |                   |  |  |
| 5#  |  | 116.189E | 36.845N | 0~0.5m<br>0.5~1.5m<br>1.5~3m |                   |  |  |
| 6#  |  | 116.194E | 36.845N | 0~0.2m                       |                   |  |  |
| 7#  |  | 116.195E | 36.850N | 0~0.5m<br>0.5~1.5m<br>1.5~3m | GB36600-2018<br>+ |  |  |
| 8#  |  | 116.200E | 36.849N | 0~0.5m<br>0.5~1.5m<br>1.5~3m |                   |  |  |
| 9#  |  | 116.196E | 36.846N | 0~0.5m<br>0.5~1.5m<br>1.5~3m |                   |  |  |
| 10# |  | 116.200E | 36.845N | 0~0.2m                       |                   |  |  |

2

1#

GB15618-2018

1

pH

+

13

3# 7#

GB36600-2018

1

1,1-

1,2-

1,1-

-1,2-

-1,2-

1,2-

1,1,1,2-

1,1,2,2-

1,1,1-

1,1,2-

1,2,3-

1,2-

1,4-

+

2-

[a]

[a]

[b]

[k]

[a h]

[1,2,3-cd]

46

2# 4# 5# 6# 8# 9# 10#

+

5

3

2022

## 4

## 4.5-24

## 4.5-25

|    |        |     |                    |            |
|----|--------|-----|--------------------|------------|
|    |        |     |                    |            |
| 1  | pH     | pH  | HJ 962-2018        | /          |
| 2  |        | /   | HJ 680-2013        | 0.01mg/kg  |
| 3  |        |     |                    | 0.002mg/kg |
| 4  |        |     | GB/T<br>17141-1997 | 0.01mg/kg  |
| 5  |        | -   | HJ 1082-2019       | 0.5mg/kg   |
| 6  |        |     | HJ 491-2019        | 1mg/kg     |
| 7  |        |     |                    | 10mg/kg    |
| 8  |        |     | HJ 491-2019        | 3mg/kg     |
| 9  |        | / - | HJ 605-2011        | 1.0 µg/kg  |
| 10 |        |     |                    | 1.0 µg/kg  |
| 11 |        |     |                    | 1.5 µg/kg  |
| 12 | -1,2-  |     |                    | 1.3 µg/kg  |
| 13 | -1,2-  |     |                    | 1.4 µg/kg  |
| 14 | 1,1-   |     |                    | 1.2 µg/kg  |
| 15 |        |     |                    | 1.1 µg/kg  |
| 16 | 1,1,1- |     |                    | 1.3 µg/kg  |
| 17 |        |     |                    | 1.3 µg/kg  |
| 18 |        |     |                    | 1.9 µg/kg  |
| 19 | 1,2-   |     |                    | 1.3 µg/kg  |
| 20 |        |     |                    | 1.2 µg/kg  |
| 21 | 1,2-   |     |                    | 1.1 µg/kg  |
| 22 | 1,1-   |     |                    | 1.0 µg/kg  |
| 23 |        |     |                    | 1.3 µg/kg  |

|    |            |     |             |            |
|----|------------|-----|-------------|------------|
| 24 | 1,1,2-     |     |             | 1.2 µg/kg  |
| 25 |            |     |             | 1.4 µg/kg  |
| 26 |            |     |             | 1.2 µg/kg  |
| 27 |            |     |             | 1.2 µg/kg  |
| 28 | +          | / - | HJ 605-2011 | 1.2 µg/kg  |
| 29 |            |     |             | 1.2 µg/kg  |
| 30 | 1,1,1,2-   |     |             | 1.2 µg/kg  |
| 31 | 1,1,2,2-   |     |             | 1.2 µg/kg  |
| 32 | 1,2-       |     |             | 1.5 µg/kg  |
| 33 | 1,4-       |     |             | 1.5 µg/kg  |
| 34 |            |     |             | 1.1 µg/kg  |
| 35 | 1,2,3-     |     |             | 1.2 µg/kg  |
| 36 |            |     | HJ 834-2017 | 0.057mg/kg |
| 37 | 2-         |     |             | 0.06mg/kg  |
| 38 |            |     |             | 0.09mg/kg  |
| 39 |            |     |             | 0.09mg/kg  |
| 40 |            |     |             | 0.1mg/kg   |
| 41 | [a]        |     |             | 0.1mg/kg   |
| 42 | [b]        |     |             | 0.2mg/kg   |
| 43 | [k]        |     |             | 0.1mg/kg   |
| 44 | [a,h]      |     |             | 0.1mg/kg   |
| 45 | [1,2,3-cd] |     |             | 0.1mg/kg   |
| 46 | [a]        |     |             | 0.1mg/kg   |

5

HJ 964-2018

4.5-23

4.5-23(1)

1#

4.5-24 2# 3# 4# 6# 7#

4.5-25 5#

4.5-26

4.5-24 1#

mg/kg

|    |      |      |                                  |      |    |    |    |
|----|------|------|----------------------------------|------|----|----|----|
|    | pH   |      |                                  |      |    |    |    |
| 1# | 7.92 | 0.42 | 0.150                            | 8.85 | 37 | 53 | 23 |
|    |      |      | C <sub>10</sub> -C <sub>40</sub> |      |    | +  |    |
| 1# | 22   | 146  | 39                               |      |    |    |    |

4.5-25 1

2# 4# 5# 6#

mg/kg

g/kg

|                                  | 2# | 4#     |          |        | 5#     |          |        | 6# |
|----------------------------------|----|--------|----------|--------|--------|----------|--------|----|
|                                  |    | 0~0.5m | 0.5~1.5m | 1.5~3m | 0~0.5m | 0.5~1.5m | 1.5~3m |    |
| C <sub>10</sub> -C <sub>40</sub> | 21 | 18     | 20       | 26     | 46     | 23       | 29     | 45 |
|                                  |    |        |          |        |        |          |        |    |
|                                  |    |        |          |        |        |          |        |    |
| +                                |    |        |          |        |        |          |        |    |
|                                  |    |        |          |        |        |          |        |    |

4.5-25 2

8# 9# 10#

mg/kg

g/kg

|                                  | 8#     |          |        | 9#     |          |        | 10# |
|----------------------------------|--------|----------|--------|--------|----------|--------|-----|
|                                  | 0~0.5m | 0.5~1.5m | 1.5~3m | 0~0.5m | 0.5~1.5m | 1.5~3m |     |
| C <sub>10</sub> -C <sub>40</sub> | 16     | 19       | 14     | 23     | 20       | 24     | 15  |
|                                  |        |          |        |        |          |        |     |



| mg/kg      | 0.044 | 0.088 | 0.069 | 0.068 | 0.053 | 0.047 |
|------------|-------|-------|-------|-------|-------|-------|
| mg/kg      | 20    | 27    | 22    | 23    | 29    | 26    |
|            |       |       |       |       |       |       |
|            |       |       |       |       |       |       |
|            |       |       |       |       |       |       |
| 1,1-       |       |       |       |       |       |       |
| 1,2-       |       |       |       |       |       |       |
| 1,1-       |       |       |       |       |       |       |
| -1,2-      |       |       |       |       |       |       |
| -1,2-      |       |       |       |       |       |       |
|            |       |       |       |       |       |       |
| 1,2-       |       |       |       |       |       |       |
| 1,1,1,2-   |       |       |       |       |       |       |
| 1,1,2,2-   |       |       |       |       |       |       |
|            |       |       |       |       |       |       |
| 1,1,1-     |       |       |       |       |       |       |
| 1,1,2-     |       |       |       |       |       |       |
|            |       |       |       |       |       |       |
| 1,2,3-     |       |       |       |       |       |       |
|            |       |       |       |       |       |       |
|            |       |       |       |       |       |       |
|            |       |       |       |       |       |       |
| 1,2-       |       |       |       |       |       |       |
| 1,4-       |       |       |       |       |       |       |
|            |       |       |       |       |       |       |
|            |       |       |       |       |       |       |
|            |       |       |       |       |       |       |
| +          |       |       |       |       |       |       |
|            |       |       |       |       |       |       |
|            |       |       |       |       |       |       |
|            |       |       |       |       |       |       |
| 2-         |       |       |       |       |       |       |
| [          |       |       |       |       |       |       |
| [          |       |       |       |       |       |       |
| [b]        |       |       |       |       |       |       |
| [k]        |       |       |       |       |       |       |
|            |       |       |       |       |       |       |
| [a,h]      |       |       |       |       |       |       |
| [1,2,3-cd] |       |       |       |       |       |       |

|  |    |    |    |    |    |    |
|--|----|----|----|----|----|----|
|  |    |    |    |    |    |    |
|  | 31 | 24 | 23 | 27 | 23 | 25 |

4.5.5.2

**1**

1# 9

+

2# 4# 5# 6# 8# 9# 10# 1 +

3# 7# 7

1,1- 1,2- 1,1- -1,2-

-1,2- 1,2- 1,1,1,2- 1,1,2,2-

1,1,1- 1,1,2- 1,2,3-

1,2- 1,4- +

2- [a] [a] [b] [k]

[a h] [1,2,3-cd]

**2**

1#

GB15618-2018 1

GB36600-2018 1 2

1.4-6 1.4-7

**3**

$P_i=C_i/S_i$

$P_i$   $i$

$C_i$   $i$  mg/kg

$S_i$   $i$  mg/kg

**4**

## 4.5-27

4.5-27 1 1#

|  |      |      |      |      |      |      |      |      |        |
|--|------|------|------|------|------|------|------|------|--------|
|  |      |      |      |      |      |      |      |      |        |
|  | 0.70 | 0.04 | 0.35 | 0.22 | 0.31 | 0.23 | 0.12 | 0.49 | 0.0087 |

4.5-27 2 2# 4# 5# 6# 8# 9# 10#

|  | 2#    | 4#     |          |        | 5#     |          |        | 6#    |
|--|-------|--------|----------|--------|--------|----------|--------|-------|
|  |       | 0~0.5m | 0.5~1.5m | 1.5~3m | 0~0.5m | 0.5~1.5m | 1.5~3m |       |
|  | 0.005 | 0.004  | 0.004    | 0.006  | 0.01   | 0.005    | 0.006  | 0.01  |
|  |       | 8#     |          |        | 9#     |          |        | 10#   |
|  |       | 0~0.5m | 0.5~1.5m | 1.5~3m | 0~0.5m | 0.5~1.5m | 1.5~3m |       |
|  |       | 0.004  | 0.004    | 0.003  | 0.004  | 0.004    | 0.005  | 0.003 |

4.5-27 3 3# 7#

| 3# | 0~0.5m   | 0.15 | 0.006 | 0.0008 | 0.02 | 0.001 | 0.02 | 0.007 |
|----|----------|------|-------|--------|------|-------|------|-------|
|    | 0.5~1.5m | 0.17 | 0.006 | 0.001  | 0.03 | 0.002 | 0.03 | 0.005 |
|    | 1.5~3m   | 0.19 | 0.005 | 0.001  | 0.02 | 0.002 | 0.02 | 0.005 |
| 7# | 0~0.5m   | 0.18 | 0.006 | 0.001  | 0.05 | 0.002 | 0.03 | 0.006 |
|    | 0.5~1.5m | 0.18 | 0.005 | 0.001  | 0.07 | 0.001 | 0.03 | 0.005 |
|    | 1.5~3m   | 0.16 | 0.005 | 0.001  | 0.06 | 0.001 | 0.03 | 0.006 |

4.5-27 1#

GB15618-2018 1

GB36600-2018

5

5.1

6950

5.1.1

1

2

3

76dB(A) 110dB(A)

$$L_2 = L_1 - 20 \lg(r_2/r_1)$$

 $L_2$   $L_1$  $r_1$   $r_2$  $r_1$   $r_2$  $r_1$  1

5.1-1

5.1-1

dB(A)

|   |  |     | 20m | 40m | 60m | 80m | 100m | 200m | 300m | 500m |
|---|--|-----|-----|-----|-----|-----|------|------|------|------|
| 1 |  | 110 | 84  | 78  | 74  | 72  | 70   | 64   | 60   | 56   |

|    |  |     |    |    |    |    |    |    |    |    |
|----|--|-----|----|----|----|----|----|----|----|----|
| 2  |  | 97  | 71 | 65 | 61 | 59 | 57 | 51 | 47 | 43 |
| 3  |  | 83  | 57 | 51 | 47 | 45 | 43 | 37 | -  | -  |
| 4  |  | 85  | 59 | 53 | 49 | 47 | 45 | 39 | -  | -  |
| 5  |  | 85  | 59 | 53 | 49 | 47 | 45 | 39 | -  | -  |
| 6  |  | 72  | 46 | 40 | 36 | -  | -  | -  | -  | -  |
| 7  |  | 97  | 71 | 64 | 61 | 59 | 57 | 51 | 47 | 43 |
| 8  |  | 83  | 57 | 51 | 47 | 45 | 43 | 37 | -  | -  |
| 9  |  | 76  | 50 | 44 | 40 | 38 | 36 | -  | -  | -  |
| 10 |  | 90  | 64 | 58 | 54 | 52 | 50 | 44 | 40 | 36 |
| 11 |  | 78  | 52 | 46 | 42 | 40 | 38 | -  | -  | -  |
| 12 |  | 80  | 54 | 48 | 44 | 42 | 40 | 34 | -  | -  |
| 13 |  | 84  | 58 | 52 | 48 | 46 | 44 | 38 | -  | -  |
| 14 |  | 110 | 84 | 78 | 74 | 72 | 70 | 64 | 60 | 56 |
| 15 |  | 105 | 79 | 73 | 69 | 67 | 65 | 59 | 55 | 51 |
| 16 |  | 85  | 59 | 53 | 49 | 47 | 45 | 39 | -  | -  |

4.1-1

100m

70dB(A)

500m

56dB(A)

4.1-2

1~5dB(A)

15dB(A)

100m

145m

5.1-2

dB(A)

|    |    |
|----|----|
|    |    |
| 70 | 55 |

5.1.2

5.1.3

5.1.4

5.1.5

5.1.6

5.1.6.1

1



4

1 2

5

6

7

8

9

40

10

15

10

11

12



13

5.1.6.3

5.1.6.4

5.1.6.5

5.1.7



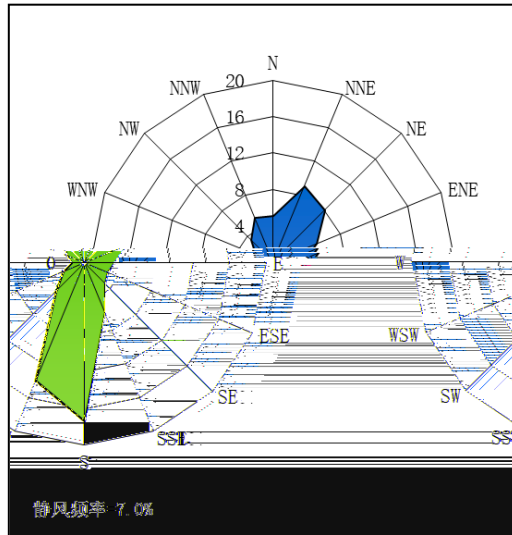
5.2-2

20

2001

2020

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5.2-1

20

2001-2020

5.2.2

5.2-3

5.2.-4

5.2-5

5.2-2

5.2-3

|   |     |       |
|---|-----|-------|
|   |     |       |
| / | /   |       |
|   |     | 50    |
| / |     | 41.5  |
| / |     | -19.2 |
|   |     |       |
|   |     |       |
|   |     |       |
|   | /m  | 90m   |
|   |     |       |
|   | /km | /     |
|   | /°  | /     |

5.2-4

|      |          |         | /m | /m | /m   | / m/s | /  | /h   |  | / kg/h                                     |
|------|----------|---------|----|----|------|-------|----|------|--|--------------------------------------------|
|      | X        | Y       |    |    |      |       |    |      |  |                                            |
| P1-1 | 116.196E | 36.846N | 57 | 30 | 0.80 | 16.59 | 30 | 8400 |  | 0.08kg/h<br>VOCs 0.097kg/h                 |
| P1-2 | 116.196E | 36.846N | 57 | 30 | 0.80 | 16.59 | 30 | 8400 |  | VOCs 0.039kg/h                             |
| P1-3 | 116.199E | 36.846N | 57 | 35 | 0.9  | 13.11 | 30 | 6600 |  | kg/h<br>VOCs kg/h                          |
| P1-4 | 116.199E | 36.846N | 57 | 36 | 0.9  | 13.11 | 30 | 6600 |  | 0.0675kg/h<br>VOCs 0.097kg/h<br>0.0021kg/h |
| P1-5 | 116.199E | 36.846N | 57 | 38 | 0.15 | 13.3  | 90 | 6600 |  | 0.0675kg/h<br>VOCs 0.097kg/h<br>0.0021kg/h |
| P1-6 | 116.200E | 36.846N | 57 | 30 | 0.15 | 13.3  | 90 | 6600 |  | 0.0252kg/h<br>0.0324kg/h<br>0.19kg/h       |
| P1-7 | 116.200E | 36.846N |    | 35 |      |       |    |      |  | VOCs 0.097kg/h<br>0.0021kg/h               |
| P2-1 | 116.193E | 36.843N | 57 | 35 | 0.9  | 13.11 | 30 | 6600 |  | kg/h<br>VOCs kg/h                          |
| P2-2 | 116.193E | 36.843N | 57 | 36 | 0.9  | 13.11 | 30 | 6600 |  | 0.0675kg/h<br>VOCs 0.097kg/h<br>0.0021kg/h |
| P2-3 | 116.193E | 36.843N | 57 | 38 | 0.15 | 13.3  | 90 | 6600 |  | 0.0675kg/h<br>VOCs 0.097kg/h<br>0.0021kg/h |

|      |          |         |    |    |      |      |    |      |  |                                      |
|------|----------|---------|----|----|------|------|----|------|--|--------------------------------------|
|      |          |         |    |    |      |      |    |      |  |                                      |
| P2-4 | 116.193E | 36.843N | 57 | 30 | 0.15 | 13.3 | 90 | 6600 |  | 0.0252kg/h<br>0.0324kg/h<br>0.19kg/h |
| P2-5 | 116.193E | 36.843N |    | 35 |      |      |    |      |  | VOCs 0.097kg/h<br>0.0021kg/h         |

4.5

4.2-4

|  |  |    |    |    |       |   |    |
|--|--|----|----|----|-------|---|----|
|  |  |    |    |    |       |   |    |
|  |  | /m | /m | /m | / m/s | / | /h |

|                   |          |         |    |       |       |       |    |      |      |                            |                            |
|-------------------|----------|---------|----|-------|-------|-------|----|------|------|----------------------------|----------------------------|
|                   |          |         |    |       |       |       |    |      |      | 0.108kg/h                  | 0.01214kg/h                |
|                   |          |         |    |       |       |       |    |      |      | 0.00189kg/h                |                            |
| DA031             | 116.196E | 36.848N | 57 | 15    | 0.35  | 25.33 | 20 | 7200 |      | 0.0402kg/h                 |                            |
| DA005             | 116.197E | 36.848N | 57 | 26    | 0.4   | 11.06 | 20 | 2400 |      | 0.0254kg/h                 | VOCs                       |
|                   |          |         |    |       |       |       |    |      |      | 0.00679kg/h                | 0.000111kg/h               |
| DA007             | 116.197E | 36.848N | 57 | 15    | 0.4   | 14.38 | 20 | 2400 |      | VOCs                       | 0.049kg/h                  |
| DA008             | 116.197E | 36.848N | 57 | 15    | 0.4   | 9.95  | 20 | 2400 |      | 0.0169kg/h                 |                            |
| DA025             | 116.196E | 36.847N | 57 | 30    | 0.5   | 4.95  | 30 | 8400 |      | 0.01kg/h                   |                            |
|                   |          |         |    |       |       |       |    |      | VOCs | 0.0105kg/h                 |                            |
| DA024             | 116.196E | 36.847N | 57 | 30    | 0.6   | 7.86  | 30 | 8400 |      | 0.0191kg/h                 |                            |
|                   |          |         |    |       |       |       |    |      | VOCs | 0.0216kg/h                 |                            |
| DA018             | 116.196E | 36.847N | 57 | 30    | 1.2   | 9.83  | 30 | 8400 |      | 0.0108kg/h                 |                            |
|                   |          |         |    |       |       |       |    |      | VOCs | 0.207kg/h                  |                            |
| DA029             | 116.196E | 36.848N | 57 | 30    | 0.80  | 5.53  | 30 | 8400 |      | 0.0292kg/h                 |                            |
|                   |          |         |    |       |       |       |    |      | VOCs | 0.479kg/h                  |                            |
| P6-1              | 116.199E | 36.845N | 57 | 15    | 0.3   | 9.04  | 20 | 8400 |      | 0.0014kg/h                 | 0.00014kg/h                |
|                   |          |         |    |       |       |       |    |      |      | $7.02 \times 10^{-7}$ kg/h | $4.88 \times 10^{-4}$ kg/h |
|                   |          |         |    |       |       |       |    |      |      | $1.19 \times 10^{-5}$ kg/h |                            |
| P6-2              | 116.199E | 36.845N | 57 | 25    | 0.3   | 21.23 | 20 | 8400 |      | 0.039kg/h                  | VOCs0.012kg/h              |
|                   |          |         |    |       |       |       |    |      |      | $5.95 \times 10^{-5}$ kg/h | $8.99 \times 10^{-5}$ kg/h |
|                   |          |         |    |       |       |       |    |      |      | $5.58 \times 10^{-4}$ kg/h | 0.002023kg/h               |
|                   |          |         |    |       |       |       |    |      |      | 0.001635kg/h               |                            |
| P6-3 P6-4<br>P6-5 | 116.199E | 36.845N | 57 | 35    | 2.4   | 1.47  | 20 | 8400 |      | 0.259kg/h                  | VOCs0.039kg/h              |
|                   |          |         |    |       |       |       |    |      |      | 0.0009kg/h                 | 0.001026kg/h               |
|                   |          |         |    |       |       |       |    |      |      | 0.002688kg/h               | 0.0186kg/h                 |
|                   |          |         |    |       |       |       |    |      |      | 0.00621kg/h                |                            |
| P6-6              | 116.199E | 36.845N | 57 | 35    | 0.8   | 4.42  | 20 | 8400 |      | VOCs0.0122kg/h             | 0.0000595kg/h              |
|                   |          |         |    |       |       |       |    |      |      | 0.000113kg/h               | 0.00109kg/h                |
|                   |          |         |    |       |       |       |    |      |      | 0.00591kg/h                | 0.00224kg/h                |
| P6-7              | 116.200E | 36.845N | 57 | 35    | 0.8   | 4.42  | 20 | 8400 |      | VOCs0.00925kg/h            | 0.0000595kg/h              |
|                   |          |         |    |       |       |       |    |      |      | 0.0000578kg/h              | 0.00159kg/h                |
|                   |          |         |    |       |       |       |    |      |      | 0.00486kg/h                |                            |
| P6-8              | 116.200E | 36.845N | 57 | 15    | 0.3   | 9.04  | 20 | 8400 |      | 0.0147kg/h                 | 0.000038kg/h               |
| DA012             | A        | DA022   | B  | DA017 | DA026 | DA023 |    |      |      |                            |                            |



DA028

DA027

DA013

DA019

DA014

DA015

DA020

DA016

DA021

DA031

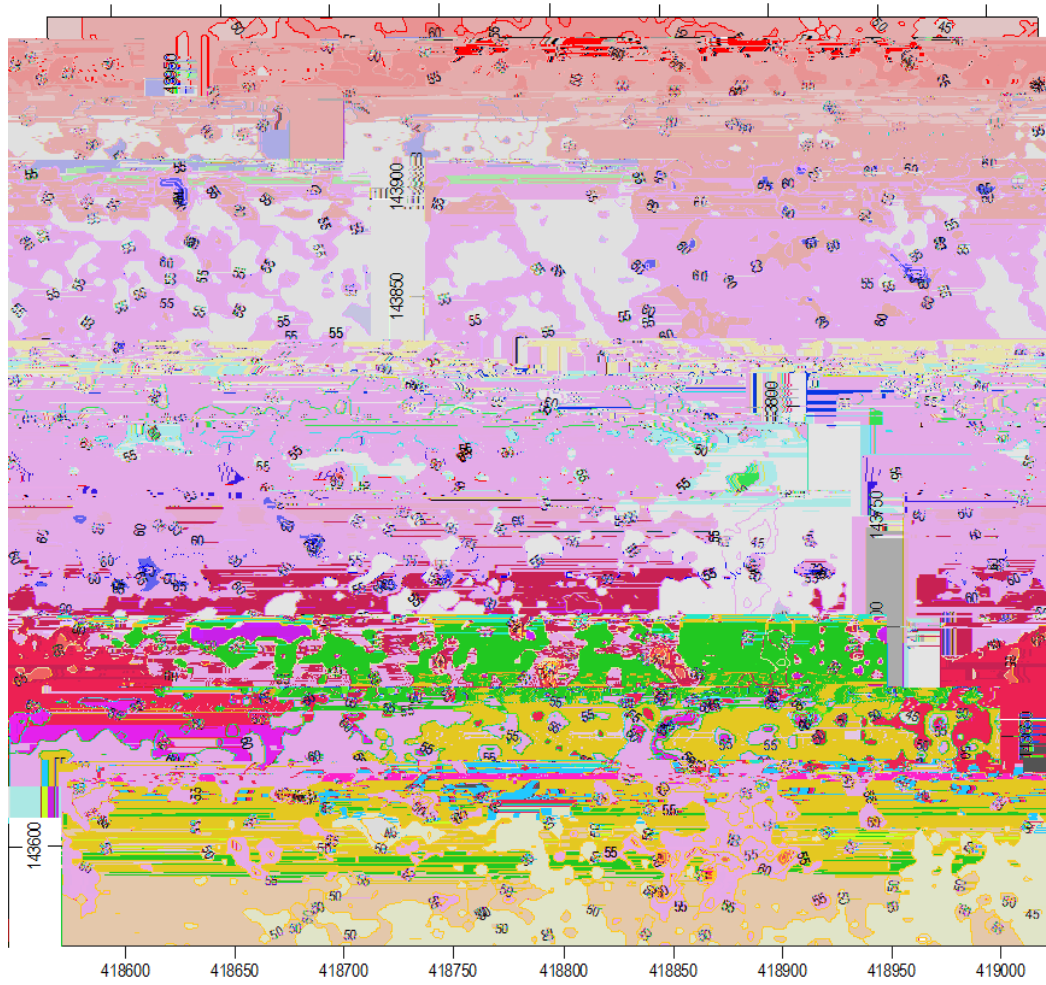
DA005

DA007

DA008

DA025

DA0



4.2-2

5.2.2.2

Pmax

1%

Pmax=9.47% 10%

HJ2.2-2018

5.2.2.3

HJ2.2-2018

5.4.2

5km

5km

1.7-1

1.7-1

5.2.3

/

5.2.4

5.2.5

4.2-7

4.2-8

4.2-9

|  |    |                                 |      |           |       |        |   |  |  |
|--|----|---------------------------------|------|-----------|-------|--------|---|--|--|
|  |    |                                 |      |           |       |        |   |  |  |
|  |    | AERMO                           | ADMS | AUSTAL200 | EDMS/ | CALPUF |   |  |  |
|  |    |                                 |      |           |       |        |   |  |  |
|  |    |                                 |      |           |       |        |   |  |  |
|  |    | C                               |      |           |       | C      |   |  |  |
|  |    |                                 | C    |           |       | C      |   |  |  |
|  |    |                                 | C    |           |       | C      |   |  |  |
|  | 1h | h                               |      | C         |       |        | C |  |  |
|  |    | C                               |      |           |       |        | C |  |  |
|  | -  |                                 |      |           |       | k>-    |   |  |  |
|  |    | SO <sub>2</sub> NO <sub>x</sub> |      |           |       |        |   |  |  |

5.3-3

**5.3-1**

5.3-1

| 1 |  | COD <sub>Cr</sub><br>BOD <sub>5</sub>           |                        |  | T1 |  |  | DW001 |  |  |
|---|--|-------------------------------------------------|------------------------|--|----|--|--|-------|--|--|
| 2 |  | COD <sub>Cr</sub><br>BOD <sub>5</sub><br><br>SS | GB/T31962-2015      1A |  | T2 |  |  | DW001 |  |  |

4.3-2

|   |       |         |        | t/a     |  |  |  |  |                   |        |
|---|-------|---------|--------|---------|--|--|--|--|-------------------|--------|
|   |       |         |        |         |  |  |  |  |                   | / mg/L |
| 1 | DW001 | 116.185 | 36.856 | 0.32373 |  |  |  |  | COD <sub>Cr</sub> | 40     |

|   |  |  |  |         |                                                             |  |  |  |                  |     |
|---|--|--|--|---------|-------------------------------------------------------------|--|--|--|------------------|-----|
| 2 |  |  |  | 0.64746 | GB18918-2002<br>A<br>COD <sub>Cr</sub><br>NH <sub>3</sub> - |  |  |  | BOD <sub>5</sub> | 10  |
|   |  |  |  |         |                                                             |  |  |  |                  | 2.0 |
|   |  |  |  |         |                                                             |  |  |  |                  | 70  |
|   |  |  |  |         |                                                             |  |  |  |                  | 5   |

## 4.3-3

|   |       |                                                   |                      |        |  |
|---|-------|---------------------------------------------------|----------------------|--------|--|
| 1 | DW001 | COD <sub>Cr</sub><br>BOD <sub>5</sub><br><br><br> | GB/T31962-2015<br>1A |        |  |
|   |       |                                                   |                      | / mg/L |  |
|   |       |                                                   |                      | 500    |  |
|   |       |                                                   |                      | 350    |  |
|   |       |                                                   |                      | 45     |  |
|   |       | COD <sub>Cr</sub><br><br><br>BOD <sub>5</sub>     |                      | 70     |  |
|   |       |                                                   |                      | 5      |  |
|   |       |                                                   |                      | 300    |  |
|   |       |                                                   |                      | 20     |  |
|   |       |                                                   |                      | 150    |  |

## 5.3.2

(HJ2.3-2018)

B

## 5.3.3

GB/T31962-2015 1A

(GB18918-2002) A

[2017]5

COD<sub>Cr</sub>NH<sub>3</sub>-26477.5m<sup>3</sup>/aCOD<sub>Cr</sub>BOD<sub>5</sub>

29.6mg/L 18mg/L 8.06mg/L

13mg/L

0.78t/a 0.48t/a 0.214t/a 0.34t/a

26477.5m<sup>3</sup>/a COD<sub>Cr</sub> BOD<sub>5</sub> 0.51t/a 0.26t/a

0.007t/a 0.23t/a

## 5.3.4

## 5.3.4.1

2004

8

4 m<sup>3</sup>/d

2007 9

8 m<sup>3</sup>/d4 m<sup>3</sup>/d

1

A

2009

5

8

16km

3.4-3

3.4.2.3



## 5.3.4.2

8 m<sup>3</sup>/d 2021.1-12  
3.66 m<sup>3</sup>/d 75.65m<sup>3</sup>/d  
0.17%  
29.6mg/L BOD<sub>5</sub> 18mg/L 8.06mg/L  
300mg/L  
BOD<sub>5</sub> 150mg/L 20mg/L

## 5.3.5

26477.5m<sup>3</sup>/a  
COD<sub>Cr</sub> 0.51t/a NH<sub>3</sub>-N  
0.007t/a COD 40mg/L

[illegible]

|  |  |    |                 |                   |                   |                  |
|--|--|----|-----------------|-------------------|-------------------|------------------|
|  |  |    |                 |                   |                   |                  |
|  |  |    |                 |                   |                   |                  |
|  |  |    | pH              | SS                | COD <sub>Cr</sub> | BOD <sub>5</sub> |
|  |  | km | km <sup>2</sup> |                   |                   |                  |
|  |  | pH | SS              | COD <sub>Cr</sub> | BOD <sub>5</sub>  |                  |
|  |  |    |                 |                   |                   |                  |
|  |  |    |                 |                   |                   |                  |
|  |  |    |                 |                   |                   |                  |
|  |  | km | km <sup>2</sup> |                   |                   |                  |
|  |  |    |                 |                   |                   |                  |
|  |  |    |                 |                   |                   |                  |

2

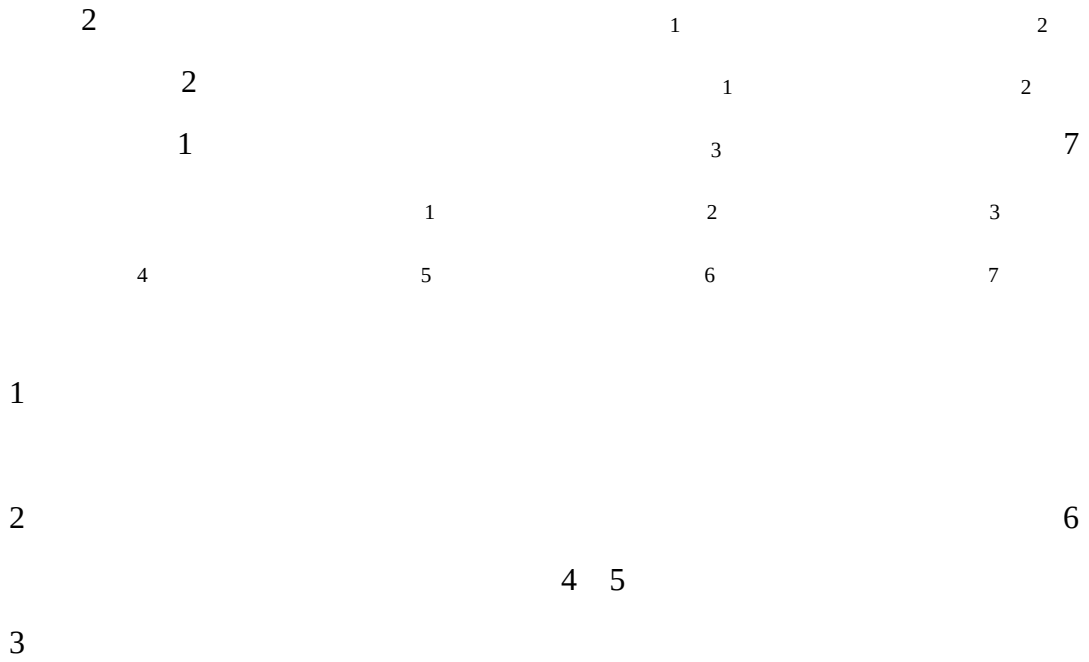
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|--|--|--|--|----|-------------------|----|----|
|  |  |  |  |    |                   |    |    |
|  |  |  |  |    |                   |    |    |
|  |  |  |  |    |                   |    |    |
|  |  |  |  |    |                   |    |    |
|  |  |  |  | pH | COD <sub>Cr</sub> | TP | TN |
|  |  |  |  |    |                   |    |    |
|  |  |  |  |    |                   |    |    |
|  |  |  |  |    |                   |    |    |

## 5.4

## 5.4.1

## 5.4.1.1



1

2

3

4 5

GB50011-2001

7

0.15g

**5.4-1**



## 5.4.1.2

-

- -

(50m ) ( 2g/L)

(50-120m )( 2-5g/L)

120-140m ( 2g/L)

## 5.4.2

90m

8

1 :

:0.80~1.50m 1.06m :-1.40~-0.70m -0.96m

0.80~1.50m 1.06m

2 :

2.60~3.50m 3.10m

-4.40~-3.70m -4.06m 3.80~4.50m 4.16m

3

2.00~3.00m 2.51m

-6.90~-6.30m -6.57m 6.40~7.00m 6.67m

4

1.00~2.30m 1.78m

-8.70~-7.90m -8.35m 8.00~8.80m 8.45m

5 -

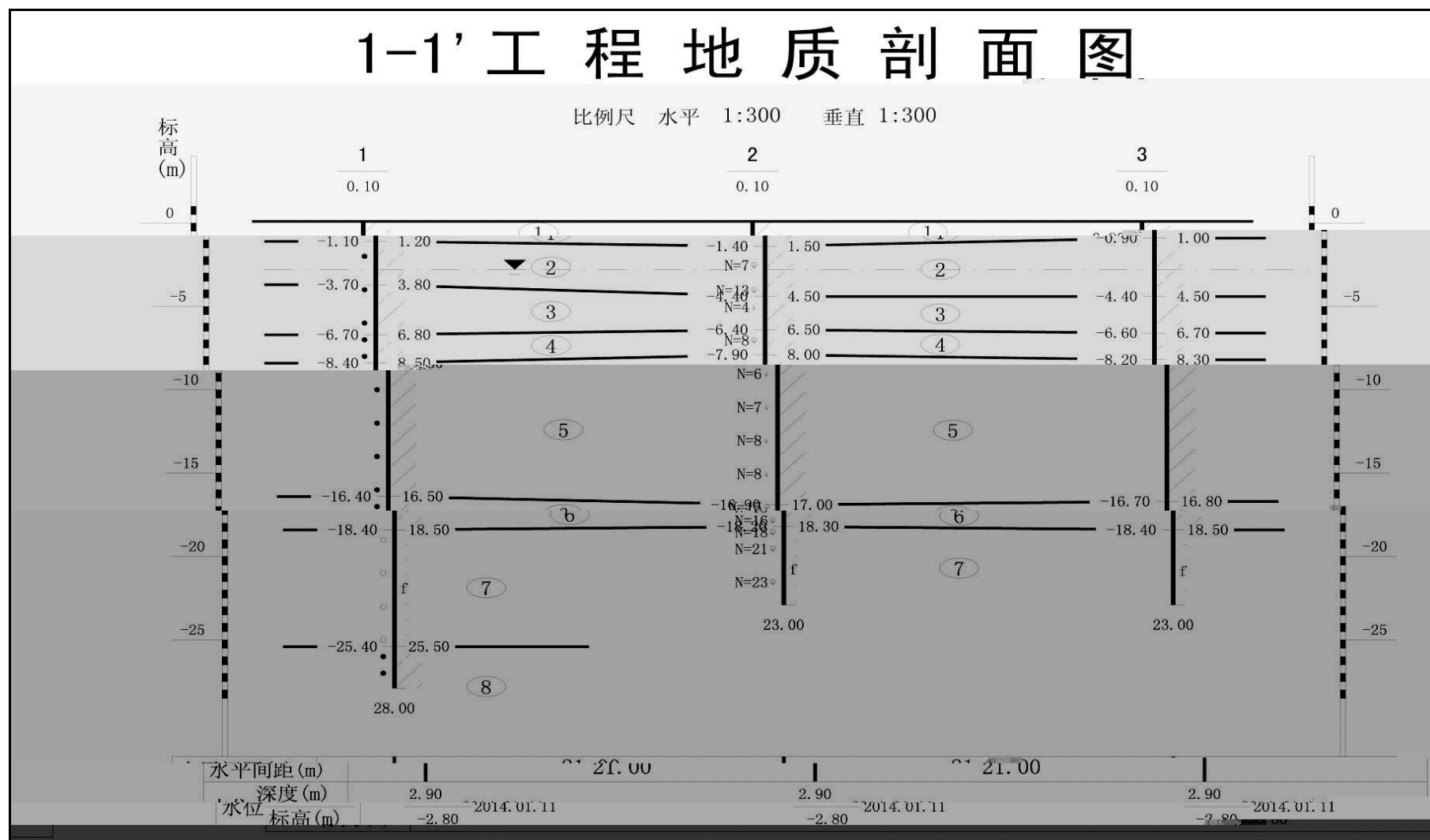
7.60~9.00m 8.32m



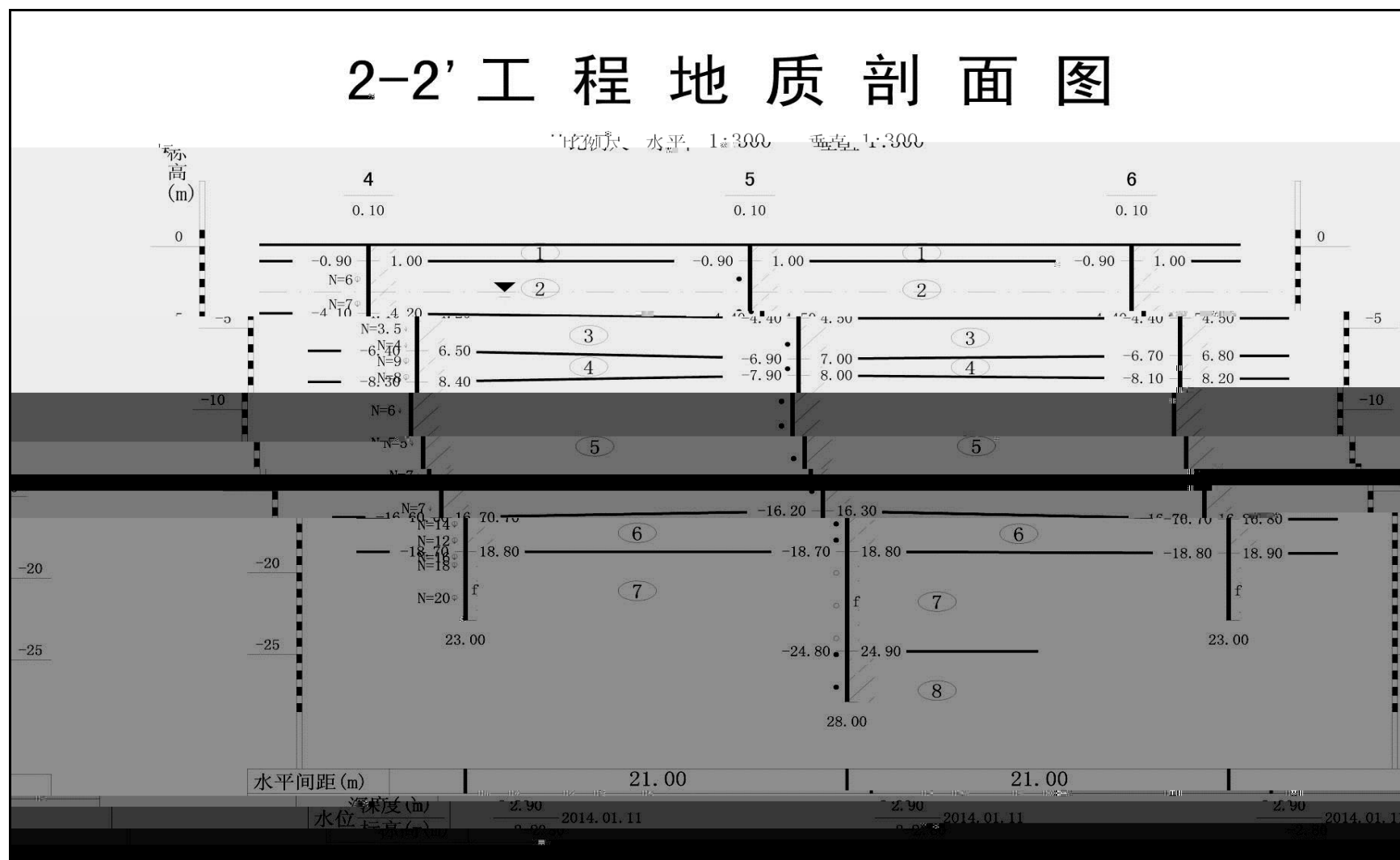
---

|   |                |              |              |                |
|---|----------------|--------------|--------------|----------------|
|   | -17.00~-16.20m | -16.67m      | 16.30~17.10m | 16.77m         |
| 6 |                | -            |              |                |
|   |                |              | 1.30~2.50m   | 1.78m          |
|   | -18.80~-18.20m | -18.44m      | 18.30~18.90m | 18.54m         |
| 7 |                |              |              |                |
|   |                | 6.10~7.10m   | 6.68m        | -25.40~-24.70m |
|   | -25.08m        | 24.80~25.50m | 25.18m       |                |
| 8 |                |              |              |                |

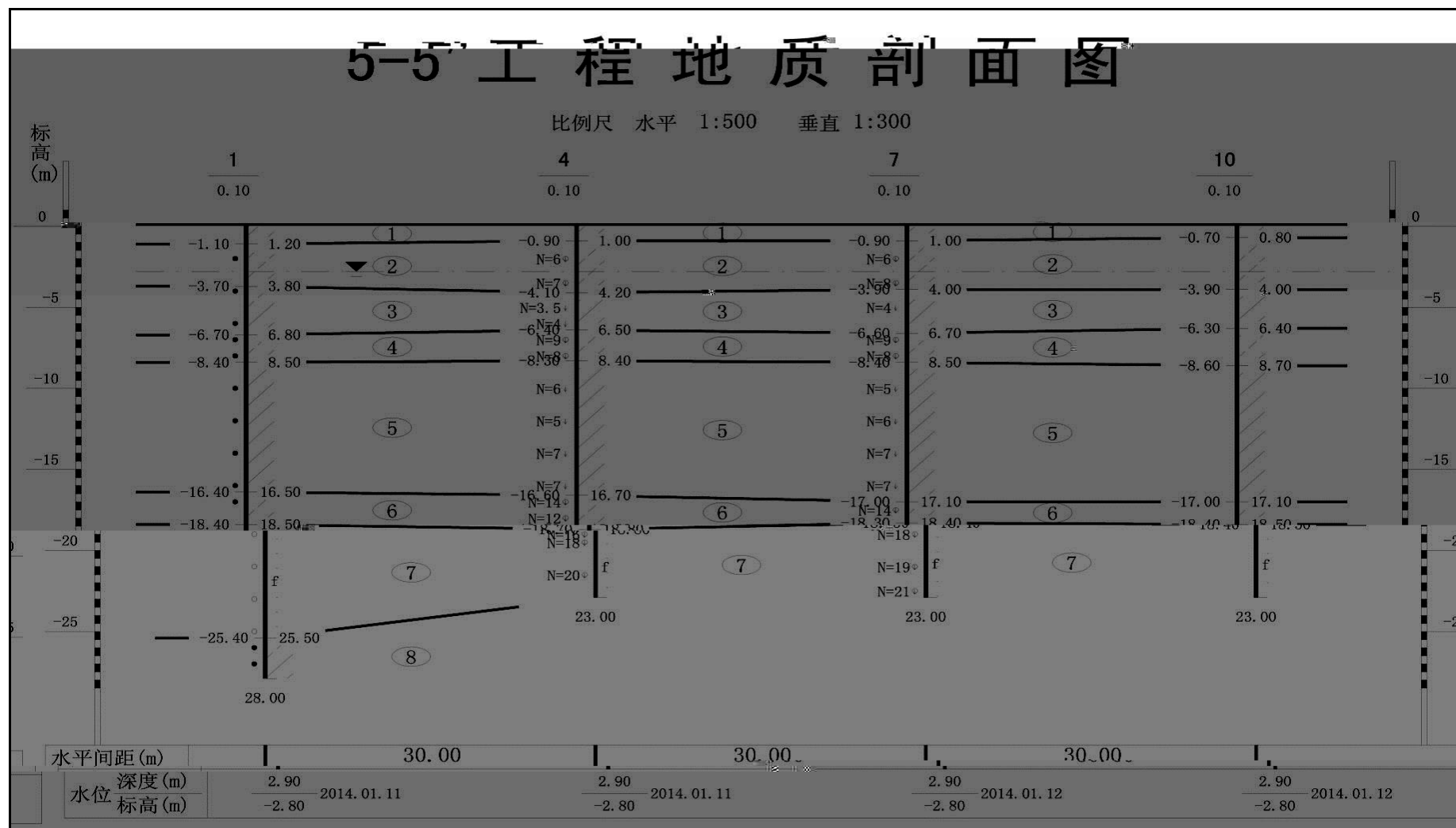
5.4-2~5.4-5



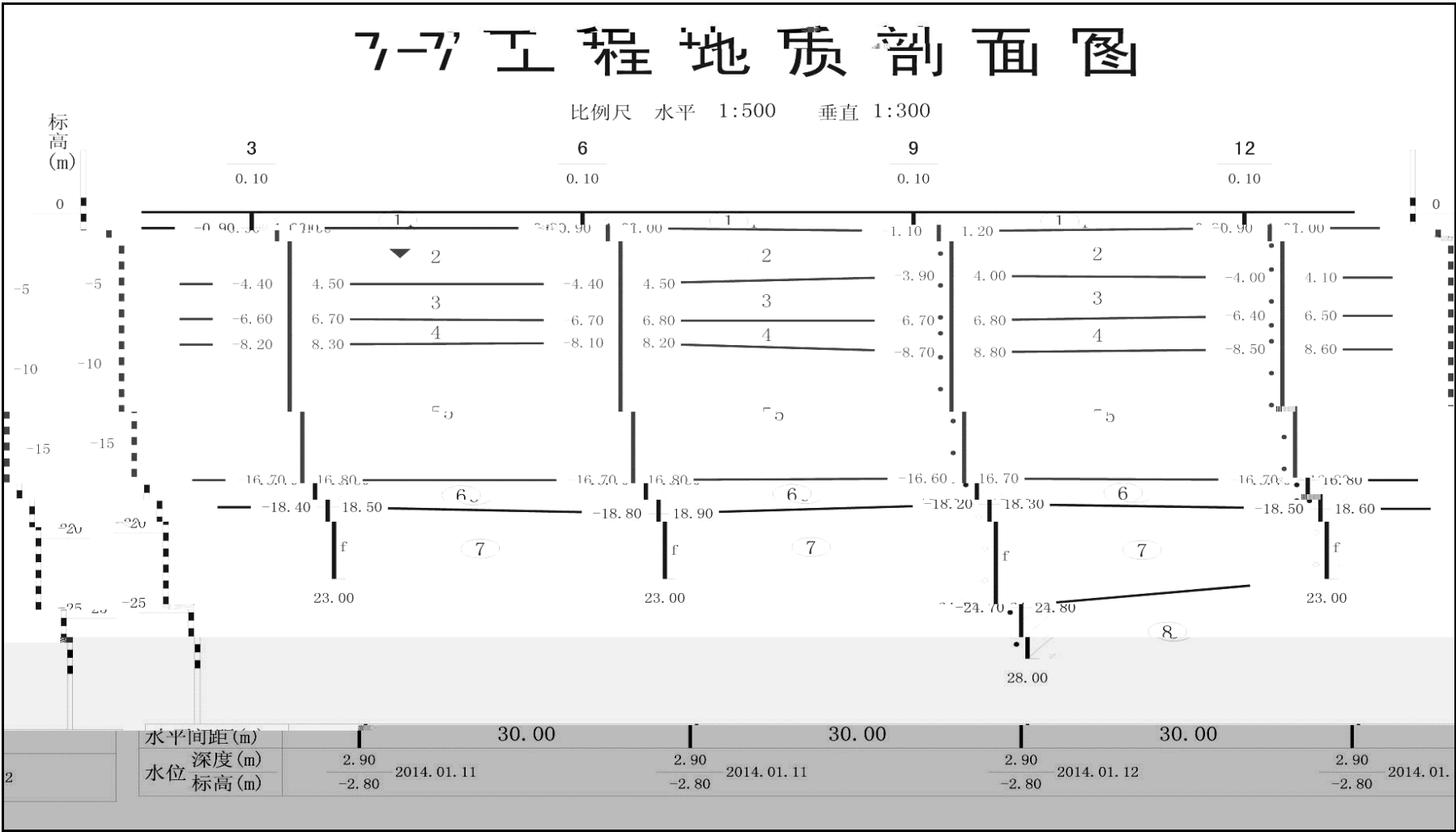
5.4-2



5.4-3



5.4-4



5.4-5

5.4.3

5.4.3.1

**1**

HJ610-2016

HJ610-2016

A

O

119

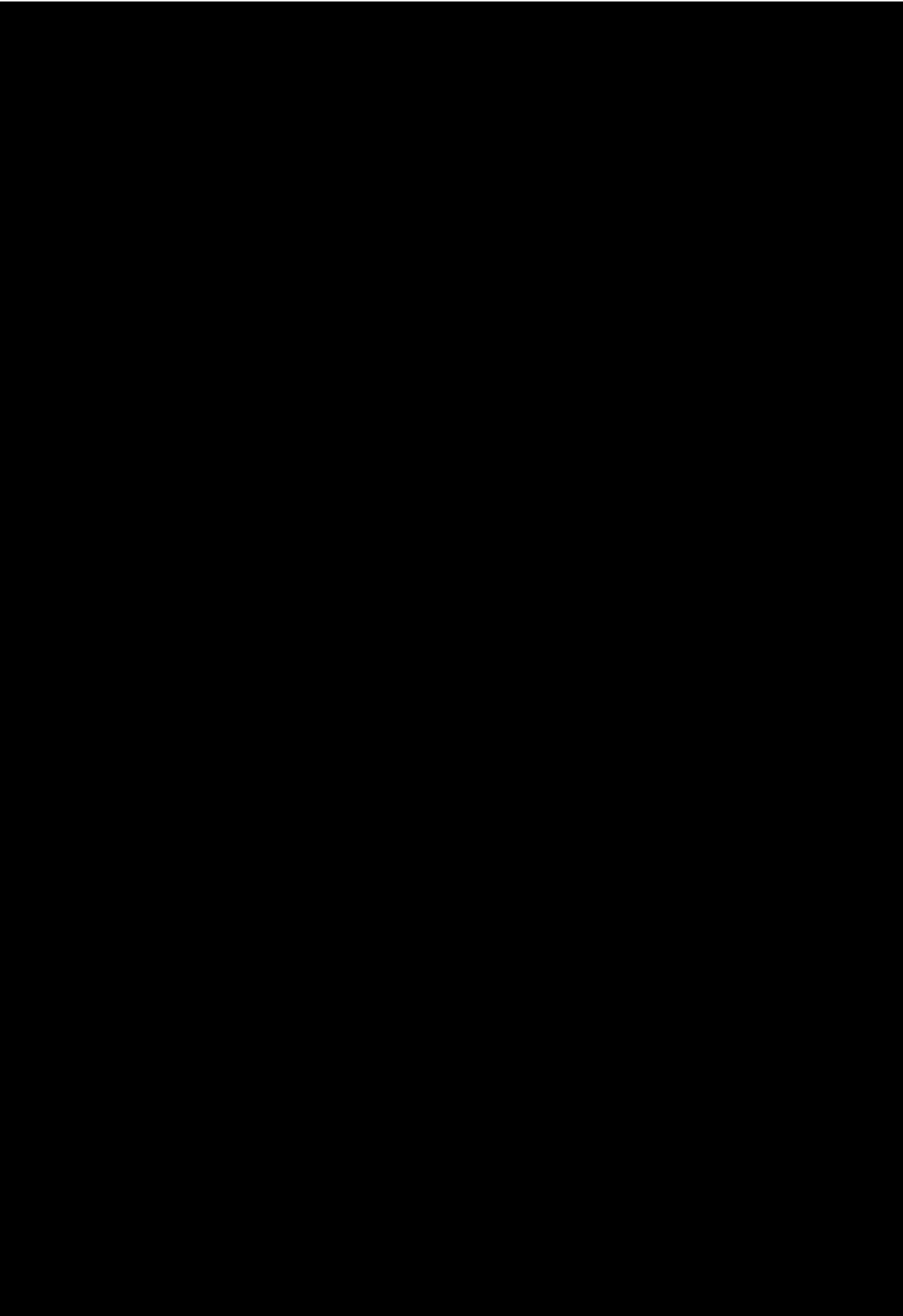
4.4-1

|  |  |
|--|--|
|  |  |
|  |  |
|  |  |
|  |  |

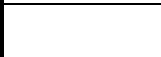
**2**

HJ610-2016

4.4-2



|  |
|--|
|  |
|  |
|  |
|  |



**1**

GB/T31962-2015      1A

**2**

5.4.4.3

100km<sup>2</sup>

**5.4-6**

2.5km

5.4.4.4



1

2

3

4

6m

 $1.0 \times 10^{-7} \text{ cm/s}$ 

1.5m

 $1.0 \times 10^{-7} \text{ cm/s}$ 

5.4-4

5.4-7

5.4-4

|  |  |                      |                                   |
|--|--|----------------------|-----------------------------------|
|  |  |                      |                                   |
|  |  | 300 C30 600 3:7      | 6.0m<br>1.0×10 <sup>-7</sup> cm/s |
|  |  | C10 ±0.00 100 20 C35 | 1.5m<br>1.0×10 <sup>-7</sup> cm/s |
|  |  | 3:7 300              | --                                |

C30

P8

250mm

150mm

1.0mm

2mm

100m

2

1m

<sup>-7</sup>cm/s

2mm

2mm

<sup>-10</sup>cm/s

1.5m

1×10<sup>-7</sup>cm/s

C25

P6

100mm

P6

1.0mm

0.3%

HDPE

4.4.4.5

1

5.4-5

5.4-5

|  |  |                                 |    |                                   |  |
|--|--|---------------------------------|----|-----------------------------------|--|
|  |  |                                 |    |                                   |  |
|  |  | 300mm 400mmC30                  | P8 | 6.0m<br>$1.0 \times 10^{-7}$ cm/s |  |
|  |  | 300mm3:7 200mmC30               | P6 |                                   |  |
|  |  | 2500mm 350mmC30                 | P8 |                                   |  |
|  |  | 100 C10<br>20 $\pm 0.00$<br>C35 |    | 1.5m<br>$1.0 \times 10^{-7}$ cm/s |  |
|  |  | 3:7 300                         |    | --                                |  |

2

5.4-5

5.4.4.6

1

2.2-1

5.4-6

5.4-6

|   |  |  |  |    |  |
|---|--|--|--|----|--|
|   |  |  |  |    |  |
| 1 |  |  |  | pH |  |

## 5.4-7

|                                    | 2019.12.28 |       |
|------------------------------------|------------|-------|
|                                    |            |       |
| pH                                 | 7.42       | 6-9   |
| mg/L                               | 0.22       | 1.5   |
| mg/L                               |            | 0.002 |
| mg/L                               |            | 0.02  |
| mg/L                               | 1.1        | 20    |
| mg/L                               |            | 1.00  |
| mg/L                               |            | 0.05  |
| mg/L                               | 1.6        | 3.0   |
| (MPN/100ml)                        | 2          | 3.0   |
| (CFU/ml)                           | 94         | 100   |
| mg/L                               |            | 1.0   |
| mg/L                               |            | 0.001 |
| mg/L                               |            | 0.01  |
| mg/L                               |            | 0.05  |
| mg/L                               |            | 0.01  |
| mg/L                               | 0.68       | 1.0   |
| mg/L                               |            | 0.005 |
| mg/L                               |            | 0.3   |
| mg/L                               |            | 0.10  |
| mg/L                               |            | 1.00  |
| mg/L                               |            | 0.3   |
|                                    | 2020.12.30 |       |
|                                    |            |       |
|                                    |            | 0.02  |
| mg/L                               | 435        | 450   |
| mg/L                               | 909        | 1000  |
| Na <sup>+</sup> mg/L               | 155        | 200   |
| K <sup>+</sup> mg/L                |            |       |
| Ca <sup>+</sup> mg/L               |            |       |
| Mg <sup>+</sup> mg/L               |            |       |
| mg/L                               | 225        | 250   |
| mg/L                               | 1160       | 250   |
| CO <sub>3</sub> <sup>2-</sup> mg/L |            |       |
| HCO <sub>3</sub> <sup>-</sup> mg/L | 351        |       |

GB/T14848-2017

5.4.4.7

5.4.5

5.5

80~90dB(A)

5.5-1

dB(A)

|  |  |    |  |  | dB(A)<br>1m | dB(A) |
|--|--|----|--|--|-------------|-------|
|  |  | 1  |  |  | 80          | 55    |
|  |  | 1  |  |  | 95          | 70    |
|  |  | 31 |  |  | 95          | 70    |
|  |  | 1  |  |  | 80          | 55    |
|  |  | 1  |  |  | 80          | 55    |
|  |  | 1  |  |  | 85          | 65    |
|  |  | 2  |  |  | 85          | 60    |
|  |  | 1  |  |  | 85          | 60    |
|  |  | 26 |  |  | 85          | 60    |
|  |  | 36 |  |  | 85          | 60    |
|  |  | 6  |  |  | 85          | 60    |
|  |  | 25 |  |  | 90          | 65    |
|  |  | 10 |  |  | 85          | 60    |
|  |  | 50 |  |  | 90          | 65    |
|  |  | 20 |  |  | 85          | 60    |
|  |  | 36 |  |  | 85          | 60    |
|  |  | 20 |  |  | 85          | 60    |

5.5-2

|  |  | m   |    |     |     |
|--|--|-----|----|-----|-----|
|  |  | 1#  | 2# | 3#  | 4#  |
|  |  | 370 | 30 | 100 | 390 |
|  |  | 310 | 40 | 100 | 325 |
|  |  | 335 | 35 | 130 | 370 |
|  |  | 365 | 40 | 105 | 380 |
|  |  | 365 | 35 | 105 | 385 |
|  |  | 360 | 50 | 110 | 370 |
|  |  | 310 | 30 | 100 | 330 |
|  |  | 330 | 45 | 135 | 365 |

|  |  |     |    |     |     |
|--|--|-----|----|-----|-----|
|  |  | 125 | 20 | 160 | 305 |
|  |  | 30  | 70 | 350 | 300 |
|  |  | 30  | 70 | 350 | 300 |
|  |  | 40  | 30 | 110 | 330 |
|  |  | 50  | 40 | 110 | 320 |
|  |  | 35  | 30 | 230 | 270 |
|  |  | 75  | 10 | 230 | 230 |
|  |  | 10  | 10 | 195 | 200 |
|  |  | 20  | 20 | 235 | 275 |

5.5.2

4

5.5.2.1

HJ2.4-2009

A

$$L_A(r) = L_{Aref}(r_0) + (A_{div} + A_{atm} + A_{bar} + A_{gr} + A_{misc})$$
$$L_A(r) \qquad \qquad \qquad r \qquad \qquad A \qquad \qquad \text{dB(A)}$$
$$L_{Aref}(r_0) \qquad \qquad \qquad r_0 \qquad \qquad A \qquad \qquad \text{dB(A)}$$
$$A_{div} \qquad \qquad \qquad \text{div}$$





| 1 <sup>#</sup>  |  |  | 36.66 | 65 | -28.34 | 36.66 | 55 | -10.99 |
|-----------------|--|--|-------|----|--------|-------|----|--------|
| 2 <sup>#</sup>  |  |  | 44.01 |    | -20.99 | 44.01 |    | -21.03 |
| 3 <sup>#</sup>  |  |  | 33.97 |    | -31.03 | 33.97 |    | -30.44 |
| 4 <sup>#</sup>  |  |  | 24.56 |    | -40.44 | 24.56 |    | -13.16 |
| 5 <sup>#</sup>  |  |  | 41.84 | 65 | -23.16 | 41.84 | 55 | -10.85 |
| 6 <sup>#</sup>  |  |  | 44.15 |    | -20.85 | 44.15 |    | -34.16 |
| 7 <sup>#</sup>  |  |  | 20.84 |    | -44.16 | 20.84 |    | -34.98 |
| 8 <sup>#</sup>  |  |  | 20.02 |    | -44.98 | 20.02 |    | -31.52 |
| 9 <sup>#</sup>  |  |  | 23.48 | 60 | -36.52 | 23.48 | 50 | -26.52 |
| 10 <sup>#</sup> |  |  | 25.67 |    | -34.33 | 25.67 |    | -24.33 |
| 11 <sup>#</sup> |  |  | 22.34 |    | -37.66 | 22.34 |    | -27.66 |

4.5-4

dB A

| 1 <sup>#</sup> |  |  | 57.4 | 36.7 | 36.66 | 57.47 | 65 | -7.53  | 47.1 | 36.7 | 36.66 | 47.82 | 55 | -7.18 |
|----------------|--|--|------|------|-------|-------|----|--------|------|------|-------|-------|----|-------|
| 2 <sup>#</sup> |  |  | 58.6 | 42.0 | 44.01 | 58.84 |    | -6.16  | 47.7 | 42.0 | 44.01 | 50.00 |    | -5    |
| 3 <sup>#</sup> |  |  | 57.7 | 19.5 | 33.97 | 57.72 |    | -7.28  | 47.1 | 19.5 | 33.97 | 47.31 |    | -7.69 |
| 4 <sup>#</sup> |  |  | 58.9 | 19.1 | 24.56 | 58.90 |    | -6.1   | 47.8 | 19.1 | 24.56 | 47.83 |    | -7.17 |
| 5 <sup>#</sup> |  |  | 52.0 |      | 41.84 | 52.40 | 65 | -12.6  | 44.0 |      | 41.84 | 46.06 | 55 | -8.94 |
| 6 <sup>#</sup> |  |  | 52.7 |      | 44.15 | 53.27 |    | -11.73 | 44.6 |      | 44.15 | 47.39 |    | -7.61 |
| 7 <sup>#</sup> |  |  | 57.1 |      | 20.84 | 57.10 |    | -7.9   | 46.7 |      |       |       |    |       |

5.5-4

GB12348-2008 3

GB3096-2008

2

5.5.3

(1)

VOCs

HJ964-2018            B

5.6-1

5.6-1



5.6-1

2

49444m<sup>2</sup>

HJ964-2018            6.2.2.1

2

3

(       )    HJ964-2018

4.6-2

4.6-2

|  |  |
|--|--|
|  |  |
|  |  |
|  |  |
|  |  |

40m

1000m

4

HJ964-2018

4.6-3

4.6-3

|  |  |  |  |  |  |  |  |   | - |
|--|--|--|--|--|--|--|--|---|---|
|  |  |  |  |  |  |  |  | - | - |

4.6.1.2

1

HJ964-2018

8.2

1.0km

2

50

3

4

5

Is-Ls-Rs / pb×A×D

g/kg

Is

g

g/a

g/a

g/a

g/a

g/a

g/a

g/a

g/a

Ls g 0

Rs g 0

pb kg/m<sup>3</sup> 1377kg/m<sup>3</sup>

A m<sup>2</sup> 2175400m<sup>2</sup>  
2128000 m<sup>2</sup>

D 0.2m

n a

E

Sb g/kg

S g/kg

6

n

5.6-4

5.6-4 1

|      | g/kg      | S g/kg    | g/kg      | S g/kg   |
|------|-----------|-----------|-----------|----------|
| 10   | 0.0002592 | 0.0010592 | 0.000105  | 0.012105 |
| 20   | 0.0005185 | 0.0013185 | 0.000211  | 0.012211 |
| 30   | 0.0007777 | 0.0015777 | 0.000316  | 0.012316 |
| 40   | 0.0010370 | 0.001837  | 0.000421  | 0.012421 |
| 50   | 0.0012962 | 0.0020962 | 0.000527  | 0.012527 |
| g/kg | 4mg/kg    |           | 1200mg/kg |          |
| 10   | 0.0002592 | 0.0010592 | 0.000105  | 0.012105 |
| 20   | 0.0005185 | 0.0013185 | 0.000211  | 0.012211 |
| 30   | 0.0007777 | 0.0015777 | 0.000316  | 0.012316 |
| 40   | 0.0010370 | 0.001837  | 0.000421  | 0.012421 |

---

|      |           |           |           |          |
|------|-----------|-----------|-----------|----------|
|      |           |           |           |          |
| 50   | 0.0012962 | 0.0020962 | 0.000527  | 0.012527 |
| g/kg | 4mg/kg    |           | 1200mg/kg |          |

1

5.6-4 2

2

5.6.1.4

5.6-5

5.6-5

|  |  |  |                |  |
|--|--|--|----------------|--|
|  |  |  |                |  |
|  |  |  | GB15618-2018 1 |  |
|  |  |  |                |  |

5.6.1.5

5.6-6

5.6-6

|  |  |  |      |                                     |        |
|--|--|--|------|-------------------------------------|--------|
|  |  |  |      |                                     |        |
|  |  |  |      |                                     |        |
|  |  |  |      |                                     |        |
|  |  |  | W    | 40m                                 |        |
|  |  |  |      |                                     |        |
|  |  |  | VOCs | SO <sub>2</sub> NO <sub>x</sub> TSP |        |
|  |  |  |      | +                                   |        |
|  |  |  |      | +                                   |        |
|  |  |  |      |                                     |        |
|  |  |  |      |                                     |        |
|  |  |  | a    | b                                   | c d    |
|  |  |  |      |                                     | 4.5-23 |
|  |  |  |      |                                     |        |
|  |  |  | 8    | 2                                   | 0~0.2m |
|  |  |  | 6    | 0                                   | 0~0.5m |



|  |  |              |                                                    |                                                    |                                                  |
|--|--|--------------|----------------------------------------------------|----------------------------------------------------|--------------------------------------------------|
|  |  |              |                                                    |                                                    | 0.5~1.5m<br>1.5~3m                               |
|  |  | pH           | 1,1-<br>-1,2-<br>1,1,1,2-<br>1,1,2-<br>1,2-<br>[b] | 1,2-<br>-1,2-<br>1,1,2,2-<br>1,2,3-<br>1,4-<br>[k] | 1,1-<br>1,2-<br>1,1,1-<br>+<br>[a]<br>[1,2,3-cd] |
|  |  |              | 1,1-<br>-1,2-<br>1,1,2,2-<br>1,4-<br>[b]           | 1,2-<br>-1,2-<br>1,2,3-<br>2-<br>[k]               | 1,1-<br>1,2-<br>1,1,1-<br>+<br>[a]<br>[1,2,3-cd] |
|  |  | GB 15618     |                                                    |                                                    |                                                  |
|  |  |              |                                                    |                                                    |                                                  |
|  |  |              |                                                    |                                                    |                                                  |
|  |  | 1000m        |                                                    |                                                    |                                                  |
|  |  | a b c<br>a b |                                                    |                                                    |                                                  |
|  |  |              |                                                    |                                                    |                                                  |
|  |  |              |                                                    |                                                    |                                                  |
|  |  | 2            |                                                    |                                                    |                                                  |
|  |  |              |                                                    |                                                    |                                                  |
|  |  |              |                                                    |                                                    |                                                  |

5.6.2

5.6-7

5.6-7

|                |  |  | t/a   |       |  |  |  |   |  |                      |     |  |
|----------------|--|--|-------|-------|--|--|--|---|--|----------------------|-----|--|
|                |  |  |       |       |  |  |  |   |  |                      |     |  |
| S <sub>1</sub> |  |  | 773   | --    |  |  |  |   |  | 282-999-99           |     |  |
| S <sub>3</sub> |  |  | 1110  | --    |  |  |  |   |  | 282-999-99           |     |  |
| S <sub>4</sub> |  |  | 157   | 314   |  |  |  |   |  | 282-999-99           |     |  |
| S <sub>5</sub> |  |  | 472.6 | 945.2 |  |  |  |   |  | 282-999-99           |     |  |
| S <sub>2</sub> |  |  | 0.1   | --    |  |  |  |   |  | HW08<br>(900-249-08) | T I |  |
|                |  |  | 4     | 3.5   |  |  |  | 6 |  | 282-999-99           |     |  |
|                |  |  | 0.1   | 0.2   |  |  |  | 4 |  | 282-999-99           |     |  |
|                |  |  | 5.3   | 4.2   |  |  |  |   |  |                      |     |  |

|  |  |    |               |               |  |  |  |   |  |                      |      |  |
|--|--|----|---------------|---------------|--|--|--|---|--|----------------------|------|--|
|  |  |    |               |               |  |  |  |   |  |                      |      |  |
|  |  | -- | 2             | 3.5           |  |  |  |   |  | HW49<br>(900-041-49) | T/In |  |
|  |  |    | 1t/4a         | 2t/4a         |  |  |  | 4 |  | HW08<br>(900-249-08) | T I  |  |
|  |  |    | 2535.1<br>3.1 | 1272.6<br>5.5 |  |  |  |   |  |                      |      |  |

5.6.3

5.6.3.1

5.6.3.2

2021

5.6.3.3

5.6.4

5.6.4.1

GB18599-2020

1

2

$1 \times 10^{-7} \text{ cm/s}$

3

GB1556.2-1995

4

5.6.4.2

1

GB18597-2001

2013

---

|       |     |              |      |
|-------|-----|--------------|------|
|       |     | 1            |      |
| 2     |     |              |      |
|       |     | GB18597-2001 | 2013 |
| a.    |     |              |      |
| b.    |     |              |      |
| c.    |     |              |      |
| d.    |     |              |      |
|       | 1/5 |              |      |
| e.    |     |              |      |
| f.    |     |              |      |
| 100mm |     |              |      |
| 3     |     |              |      |
| 4     |     |              |      |
| 5     |     |              |      |
|       |     | GB18597-2001 | 2013 |
| 5.6.5 |     |              |      |

---

5.7

5 130t/h 5 2 24MW  
SO<sub>2</sub> NO<sub>x</sub>

5.7.1.2

5.7-1

5.7-1

|   |  |                          |
|---|--|--------------------------|
|   |  |                          |
| 1 |  | 1 750m <sup>3</sup><br>2 |
| 2 |  | 1<br>2                   |
| 3 |  | 1<br>2<br>3<br>4<br>5    |

4.7.1.3

2020 12 30

371526-2021-004-L

5.7.2

5.7.2.1

HJ 169-2018 B

2015

-

VOCs

16cm

1.5km

30m<sup>3</sup>

24kg

5.7-2

5.7-2

|  |  |        | t/a                       | t/a                |                     |  |
|--|--|--------|---------------------------|--------------------|---------------------|--|
|  |  |        | 31000                     | 885                |                     |  |
|  |  |        | 0.0013                    | 2 10 <sup>-7</sup> | 400kg/              |  |
|  |  | -      | 1/4a                      | 1                  |                     |  |
|  |  |        | 70                        | 2                  |                     |  |
|  |  | 37%    | 105                       | 2.54<br>0.94       | 3.9m <sup>3</sup> 1 |  |
|  |  | 20-25% | 75                        | 2.84               | 3.9m <sup>3</sup> 1 |  |
|  |  |        | 1.1                       | 0.03               |                     |  |
|  |  |        | 656.04<br>m <sup>3</sup>  | 0.024              |                     |  |
|  |  |        | 140                       | 4                  |                     |  |
|  |  |        | 210                       | 2.54<br>0.94       |                     |  |
|  |  | 20-25% | 150                       | 2.84               | 3.9m <sup>3</sup> 1 |  |
|  |  |        | 2.2                       | 0.06               | 3.9m <sup>3</sup> 1 |  |
|  |  |        | 1312.08<br>m <sup>3</sup> | 0.024              |                     |  |

4.7.2.2

4.7.2.3

MSDS

4.7-3~ 4.7-9



|  |                  |  |             |
|--|------------------|--|-------------|
|  |                  |  | Caprolactam |
|  | C <sub>6</sub> H |  |             |

## 4.7-4 - MSDS

|  |      |  |     |                            |
|--|------|--|-----|----------------------------|
|  |      |  |     | Diphenyl and diphenl ether |
|  |      |  |     |                            |
|  |      |  |     |                            |
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## MSDS

4.7-6

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4.7-7

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## 4.7-8 MSDS

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|        |                    |       | Ammonium hydroxide Ammonia water |
|        |                    |       |                                  |
|        | NH <sub>4</sub> OH | 35.05 |                                  |
|        |                    |       | 1.59kPa(20 )                     |
|        | =1                 | 0.91  | (kJ/mol)                         |
|        | =1                 |       | --                               |
| (vol%) |                    |       |                                  |
|        |                    |       |                                  |
|        | 8.2                |       |                                  |
|        |                    |       |                                  |
|        |                    | UN    | 2672 CAS NO. 1336-21-6           |
|        | 82503              |       | 20                               |
|        |                    |       |                                  |
|        |                    |       |                                  |
|        |                    | 15    | 15 3%                            |
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## 4.7-9

## MSDS

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|        |              |      |       |          | Sodiun hydroxide    Caustic soda |         |           |
|        |              |      |       |          |                                  |         |           |
|        | NaOH         |      | 40.01 |          | -                                |         | -         |
|        | 318.4        |      | 1390  |          | 0.13kPa(739    )                 |         |           |
|        | =1           | 2.12 |       | (kJ/mol) | -                                |         |           |
|        | =1           | -    |       |          | -                                |         |           |
| (vol%) | -            |      |       |          |                                  |         |           |
|        | -            | MAC  | 2     |          |                                  |         |           |
|        | 8.2          |      |       |          |                                  |         |           |
|        |              |      |       |          |                                  |         |           |
|        | LD50<br>LC50 |      |       |          |                                  |         |           |
|        |              |      |       | UN       | 1823                             | CAS NO. | 1310-73-2 |
|        | 82001        |      |       |          |                                  |         | -         |
|        | ， ，          |      |       |          |                                  |         |           |
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## MSDS



## MSDS

[illegible]

## 4.7-12 MSDS

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|  |                               |  |       |  | benzene |  |  |
|  |                               |  |       |  |         |  |  |
|  | C <sub>6</sub> H <sub>6</sub> |  | 78.11 |  |         |  |  |
|  | 5.5                           |  | 80.1  |  |         |  |  |
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4.7-14

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|  |  |  |
|--|--|--|
|  |  |  |
|--|--|--|

---



4.7-10

2 M

(HJ 169-2018)C.1

M M 20 10 M 20 5 M=5

M1 M2 M3 M4 M 4.7-11

M=5 M4

3 P

Q M 4.7-4

P P1 P2 P3 P4

4.7-12 P

| Q   | M  |    |    |    |
|-----|----|----|----|----|
|     | M1 | M2 | M3 | M4 |
|     | P1 | P1 | P2 | P3 |
| 100 | P1 | P2 | P3 | P4 |
| 10  | P2 | P3 | P4 | P4 |

10 M4 4.7-12

P4

2 E

1

E1 E2 E3

4.7-13

4.7-13

|    |          |                   |                    |  |
|----|----------|-------------------|--------------------|--|
|    |          |                   |                    |  |
| E1 | 5km<br>5 | 500m<br>200m      | 1000<br>200        |  |
| E2 | 5km<br>1 | 5<br>500m<br>200m | 500<br>1000<br>100 |  |
|    | 200      |                   |                    |  |



|    |                  |      |            |
|----|------------------|------|------------|
| E3 | 5km<br>1<br>200m | 500m | 500<br>100 |
|----|------------------|------|------------|

|    |      |      |
|----|------|------|
|    | 500m | 1000 |
| E1 |      |      |
| 2  |      |      |

|    |        |        |
|----|--------|--------|
|    | E1     | E2     |
| E3 | 4.7-14 |        |
|    | 4.7-15 | 4.7-16 |
|    | 4.7-14 |        |

|    |    |    |    |
|----|----|----|----|
|    |    |    |    |
|    | F1 | F2 | F3 |
| S1 | E1 | E1 | E2 |
| S2 | E1 | E2 | E3 |
| S3 | E1 | E2 | E3 |

|        |
|--------|
| 4.7-15 |
|--------|

|    |     |
|----|-----|
|    |     |
| F1 | 24h |
| F2 | 24h |
| F3 |     |

|        |    |
|--------|----|
| IV     |    |
|        | F3 |
| 4.7-16 |    |
|        |    |

10km

S1

|     |   |
|-----|---|
| 4.5 |   |
|     |   |
| G2  | a |
| G3  |   |
| a   |   |

|        |                                                                                                                                                                                                    |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| G3     |                                                                                                                                                                                                    |
| 4.7-19 |                                                                                                                                                                                                    |
|        |                                                                                                                                                                                                    |
| D3     | $\times 10^{-6}\text{cm/s}$                                                                                                                                                                        |
| D2     | <div> <div>1.0m</div> <div><math>\times 10^{-6}\text{cm/s}</math></div> </div> <div> <div>1.0<math>\times 10^{-6}\text{cm/s}</math></div> <div><math>\times 10^{-4}\text{cm/s}</math></div> </div> |
| D1     |                                                                                                                                                                                                    |
| Mb     | K                                                                                                                                                                                                  |

|                                  |    |
|----------------------------------|----|
| 3.1                              |    |
| 3.47 $\times 10^{-5}\text{cm/s}$ | D2 |
|                                  | D2 |
|                                  | G3 |
| 4.7-9                            | E3 |
| 3                                |    |

|        |                                                                                         |
|--------|-----------------------------------------------------------------------------------------|
| 4.7-20 |                                                                                         |
| 4.7-20 |                                                                                         |
|        |                                                                                         |
|        | <div> <div></div> <div></div> <div></div> <div>(m)</div> <div></div> <div></div> </div> |
|        | 5km1.6-1                                                                                |
|        | 500m1709                                                                                |
|        | 5km130041                                                                               |
|        | E1                                                                                      |



4.5

---

4.7-22

|  |   |  |  |  |
|--|---|--|--|--|
|  | + |  |  |  |
|--|---|--|--|--|

4.7-25

4.7-25

|   |  |  |  |  |  |  |
|---|--|--|--|--|--|--|
|   |  |  |  |  |  |  |
| 1 |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |

4.7.5

4.7.5.1

|       |          |                                                          |
|-------|----------|----------------------------------------------------------|
|       |          |                                                          |
|       |          | $1.00 \times 10^{-8}/a$                                  |
|       | 10%      | $5.00 \times 10^{-6}/m\ a$<br>$1.00 \times 10^{-6}/m\ a$ |
| 75mm  | 10%      | $2.00 \times 10^{-6}/m\ a$<br>$3.00 \times 10^{-7}/m\ a$ |
| 150mm | 10% 50mm | $2.40 \times 10^{-6}/m\ a$<br>$1.00 \times 10^{-7}/m\ a$ |
|       | 10% 50mm | $5.00 \times 10^{-4}/a$<br>$1.00 \times 10^{-4}/a$       |
|       | 10% 50mm | $3.00 \times 10^{-7}/h$<br>$3.00 \times 10^{-8}/h$       |
|       | 10% 50mm | $4.00 \times 10^{-5}/h$<br>$4.00 \times 10^{-6}/h$       |

4.7-24

10%

 $4.0 \times 10^{-5}/h$ 

4.7.6

4.7.6.1

**1**

10%

50mm

 $50m^3$  $45m^3$ 

5.0m

3.5m

0.10m

 $Q_L$ 

$$Q_L = C_d A \rho \sqrt{\frac{2(P - P_0)}{\rho} + 2gh}$$

 $Q_L$ 

kg/s

P

Pa

 $P_0$ 

Pa

 $kg/m^3$

g 9.81m/s<sup>2</sup>

h m

C<sub>d</sub> 0.65A m<sup>2</sup>

30min 4.7-27

4.7-27

|  | P Pa   | P <sub>0</sub> Pa | kg/m <sup>3</sup> | h m | A m <sup>2</sup> | Q <sub>L</sub> kg/s |
|--|--------|-------------------|-------------------|-----|------------------|---------------------|
|  | 101325 | 101325            | 1155              | 4.3 | 0.0000785        | 0.541               |

2

HJ/T169-2018

HJ/T169-2018 F.1.4.3

$$Q = \frac{M}{\rho} \cdot \frac{(2-n)}{(2+n)} \cdot \frac{(4+n)}{(2+n)}$$

Q<sub>3</sub> kg/s

P Pa

R 8.314J/ mol K

T<sub>0</sub> 298K

M 0.0365kg/mol

u m/s

r m

n 4.7-28

4.7-28

|     | n    |                        |
|-----|------|------------------------|
| A B | 0.2  | 3.846×10 <sup>-3</sup> |
| D   | 0.25 | 4.685×10 <sup>-3</sup> |
| E F | 0.3  | 5.285×10 <sup>-3</sup> |

HJ/T169-2018



|     |  |  |   |  |  |        |  |    |
|-----|--|--|---|--|--|--------|--|----|
| 4.5 |  |  |   |  |  |        |  |    |
| 50% |  |  | F |  |  | 1.5m/s |  | 25 |

4.7-29

4.7-29

|   | n   |                        | P Pa   | u m/s | m² | r m  | min | Q <sub>3</sub><br>kg/s |
|---|-----|------------------------|--------|-------|----|------|-----|------------------------|
| F | 0.3 | 5.285×10 <sup>-3</sup> | 2012.5 | 1.5   | 81 | 5.07 | 30  | 0.0045                 |

4.7.6.2

1

HJ16-2018

1

HJ/T169-2018

F1.5m/s25

50%

2

HJ/T169-2018H CAS7647-01-01150mg/m³

233mg/m³

3

30min

4

HJ/T169-2018G

AFTOX

5

4.7-30

4.7-2

**4.7-3**

4.7-4

**4.7-3**

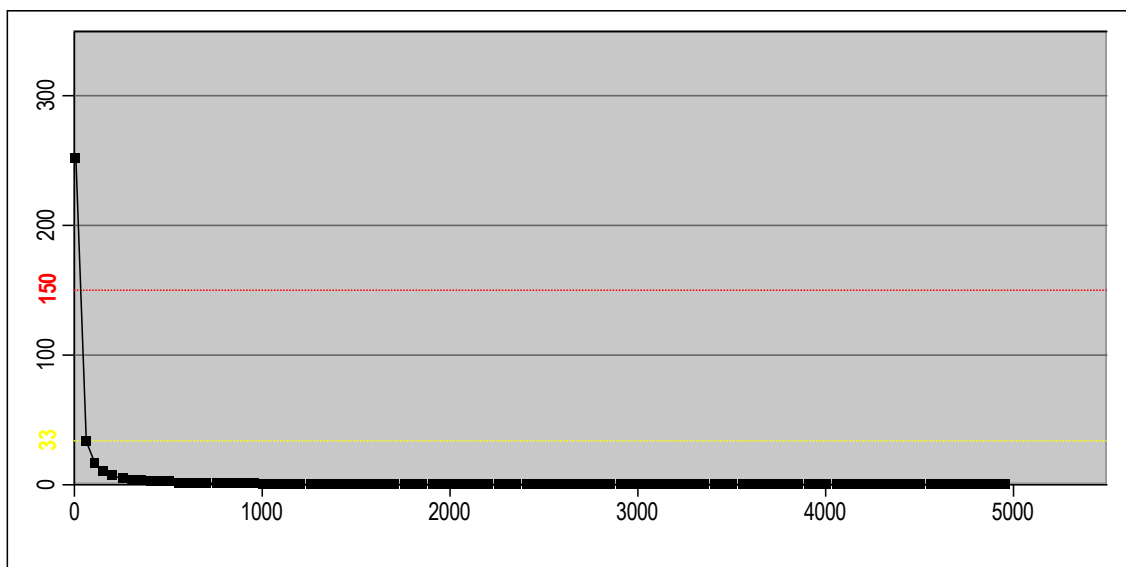
4.7-30

(m)

min

|    |      |      |       |
|----|------|------|-------|
| 35 | 1710 | 19.0 | 0.251 |
| 36 | 1760 | 19.6 | 0.241 |
| 37 | 1810 | 20.1 | 0.233 |
| 38 | 1860 | 20.7 | 0.225 |
| 39 | 1910 | 21.2 | 0.217 |
| 40 | 1960 | 21.8 | 0.210 |
| 41 | 2010 | 22.3 | 0.203 |
| 42 | 2060 | 22.9 | 0.197 |
| 43 | 2110 | 23.4 | 0.191 |
| 44 | 2160 | 24.0 | 0.185 |
| 45 | 2210 | 24.6 | 0.180 |
| 46 | 2260 | 25.1 | 0.174 |
| 47 | 2310 | 25.7 | 0.170 |
| 48 | 2360 | 26.2 | 0.165 |
| 49 | 2410 | 26.8 | 0.160 |
| 50 | 2460 | 27.3 | 0.156 |
| 51 | 2510 | 27.9 | 0.152 |
| 52 | 2560 | 28.4 | 0.148 |
| 53 | 2610 | 29.0 | 0.145 |
| 54 | 2660 | 29.6 | 0.141 |
| 55 | 2710 | 38.1 | 0.138 |
| 56 | 2760 | 38.7 | 0.135 |
| 57 | 2810 | 40.2 | 0.131 |
| 58 | 2860 | 40.8 | 0.128 |
| 59 | 2910 | 41.3 | 0.126 |
| 60 | 2960 | 41.9 | 0.123 |
| 61 | 3010 | 42.4 | 0.120 |
| 62 | 3060 | 43.0 | 0.118 |
| 63 | 3110 | 43.6 | 0.115 |
| 64 | 3160 | 44.1 | 0.113 |
| 65 | 3210 | 45.7 | 0.111 |
| 66 | 3260 | 46.2 | 0.108 |
| 67 | 3310 | 46.8 | 0.106 |
| 68 | 3360 | 47.3 | 0.104 |
| 69 | 3410 | 47.9 | 0.102 |
| 70 | 3460 | 48.4 | 0.100 |
| 71 | 3510 | 49.0 | 0.098 |
| 72 | 3560 | 49.6 | 0.097 |
| 73 | 3610 | 51.1 | 0.095 |
| 74 | 3660 | 51.7 | 0.093 |
| 78 | 3710 | 52.2 | 0.092 |
| 76 | 3760 | 52.8 | 0.090 |

|     |      |      |       |
|-----|------|------|-------|
| 77  | 3810 | 53.3 | 0.088 |
| 78  | 3860 | 53.9 | 0.087 |
| 79  | 3910 | 54.4 | 0.086 |
| 80  | 3960 | 55.0 | 0.084 |
| 81  | 4010 | 56.6 | 0.083 |
| 82  | 4060 | 57.1 | 0.081 |
| 83  | 4110 | 57.7 | 0.080 |
| 84  | 4160 | 58.2 | 0.079 |
| 85  | 4210 | 58.8 | 0.078 |
| 86  | 4260 | 59.3 | 0.076 |
| 87  | 4310 | 59.9 | 0.075 |
| 88  | 4360 | 60.4 | 0.074 |
| 89  | 4410 | 61.0 | 0.073 |
| 90  | 4460 | 62.6 | 0.072 |
| 91  | 4510 | 63.1 | 0.071 |
| 92  | 4560 | 63.7 | 0.070 |
| 93  | 4610 | 64.2 | 0.069 |
| 94  | 4660 | 64.8 | 0.068 |
| 95  | 4710 | 65.3 | 0.067 |
| 96  | 4760 | 65.9 | 0.066 |
| 97  | 4810 | 66.4 | 0.065 |
| 98  | 4860 | 68.0 | 0.064 |
| 99  | 4910 | 68.6 | 0.064 |
| 100 | 4960 | 69.1 | 0.063 |



4.7-2

33mg/m<sup>3</sup>

60m

1min

150m

2

pH

pH

6.5

pH

6

90%

pH

4

1 1000m<sup>3</sup>

250m

3

4.7.7

4.7.7.1

**1**

1

2

**2**

1

2

3

4

5

4.7.7.2

**1**

$$V = V_1 + V_2 - V_3 - V_4 + V_5$$

$$V_1 = 50 \text{ m}^3$$

$$V_2 = 288 \text{ m}^3$$

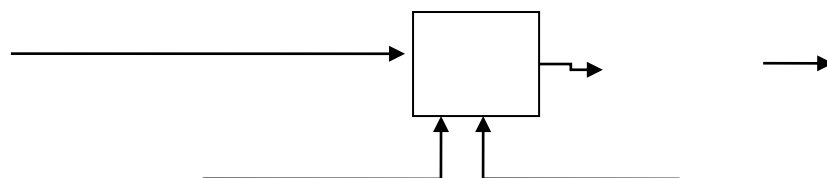
$$V_3 = 121 \text{ m}^3$$

$$V_4 = 0 \text{ m}^3$$

$$V_5 = 118.04 \text{ m}^3$$

$$V = 50 + 288 - 121 + 118.04 = 335.04 \text{ m}^3$$

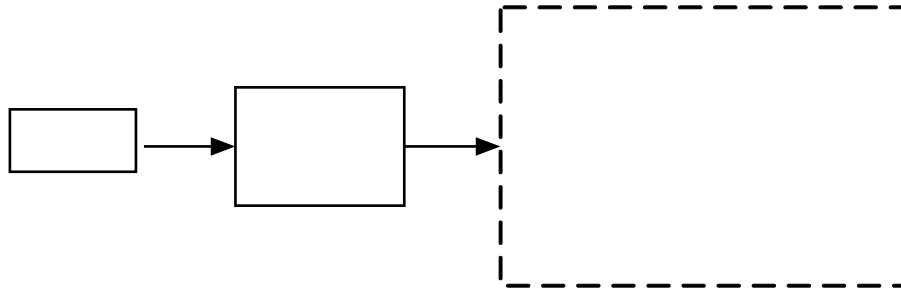
4.7-5



4.7-5



4.7-6



4.7-6

4.7.7.3

1

2

( )

3

4

4.7.7.4

1

2

3

4

5

6

7

8

4.7.7.5

1

2

3

4.7.7.6

1

2

3

4

5

4.7-32

4.7-32

|   |  |       |
|---|--|-------|
|   |  |       |
| 1 |  | 4.7-7 |
| 2 |  |       |
| 3 |  | /     |
| 4 |  |       |
| 5 |  |       |
| 6 |  |       |
| 7 |  |       |

4.7.7.7

(1)

(2)

200m   500m   1000m   1500m   2000m

TSP

15min

4.7.8

4.7.8.1

2015 9 29

371526-2015-008-L

4.7.8.2

1

2

1

4.7-31

4.7-31

|  |                                |                                                                              |
|--|--------------------------------|------------------------------------------------------------------------------|
|  |                                |                                                                              |
|  | 200m 500m 1000m 1500m<br>2000m | SO <sub>2</sub> NO <sub>2</sub> PM <sub>10</sub><br>TSP VOCs NH <sub>3</sub> |
|  | 2                              |                                                                              |
|  |                                |                                                                              |

pH   BOD<sub>5</sub>

COD    SS

2 4.7-32

2 4.7-32

4.7-32

|  |                                |
|--|--------------------------------|
|  |                                |
|  | pH   BOD <sub>5</sub> COD   SS |

2

3

(1)

(       )

(2)

24

(3)

(4)

3

(5)

4.7.9

SO<sub>2</sub> NO<sub>2</sub>

4.7-33

4.7-33

|  |  |        |                  |  |       |                     |    |    |
|--|--|--------|------------------|--|-------|---------------------|----|----|
|  |  |        |                  |  |       |                     |    |    |
|  |  | 1 Q 10 |                  |  |       |                     |    |    |
|  |  |        | 500m <u>1709</u> |  |       | 5km <u>130041</u> - |    |    |
|  |  |        | 200m             |  |       |                     |    |    |
|  |  |        |                  |  |       | F2                  | F3 |    |
|  |  |        |                  |  |       |                     |    |    |
|  |  |        |                  |  |       |                     |    | G3 |
|  |  |        |                  |  | D1    | D2                  |    |    |
|  |  | Q      | Q                |  |       | Q                   |    |    |
|  |  | M      |                  |  |       |                     |    |    |
|  |  | P      |                  |  |       |                     |    |    |
|  |  |        | E1               |  | E2    |                     |    |    |
|  |  |        |                  |  | E2    |                     | E3 |    |
|  |  |        |                  |  | E2    |                     | E3 |    |
|  |  | +      |                  |  |       |                     |    |    |
|  |  |        |                  |  |       |                     |    |    |
|  |  |        |                  |  |       |                     |    |    |
|  |  |        |                  |  | /     |                     |    |    |
|  |  |        |                  |  |       |                     |    |    |
|  |  |        |                  |  |       |                     |    |    |
|  |  |        |                  |  | AFTOX |                     |    |    |
|  |  |        | -1 <u>10</u> m   |  |       |                     |    |    |
|  |  |        | -2 <u>60</u> m   |  |       |                     |    |    |

|       |  |         |
|-------|--|---------|
|       |  | _____ h |
|       |  | _____ d |
|       |  | _____ d |
|       |  |         |
|       |  |         |
| _____ |  |         |



## 6

### 6.1

#### 6.1.1

59985.77t/a COD<sub>Cr</sub>

9.7t/a 0.56t/a

#### 6.1.2

##### 6.1.2.1

1000m<sup>3</sup>/d + + +

2.10-7

51921.77m<sup>3</sup>/a 148m<sup>3</sup>/d

300m<sup>3</sup>/d

1000m<sup>3</sup>/d

700m<sup>3</sup>/d

148m<sup>3</sup>/d

GB/T31962-2015 1A

A

2.3t/a

0.23t/a

### 6.1.3

10

100000

0.01%

## 6.2

### 6.2.1

G1

38m

P1

G2

16m

P2

G3

$$+$$

G4

$$+$$

G6

1

44m

G5

G5

26m

P4

G7

26m

P5

G9

17m

P6

30m

P7

G10

4.5

---

25m

P8 P9

G11 G12

1

15m

|                 |   |   |              |
|-----------------|---|---|--------------|
| GB16297-1996    | 2 |   |              |
| DB37/2376-2013  | 2 |   | GB14554-93 2 |
|                 |   |   | 6            |
| DB37/801.6-2018 | 1 | 2 |              |
| GB31572-2015    | 5 |   |              |

6.2.3

0.3% 300 100000

6.3

6.3.1

80 95dB A

A

B

C

6.3.2

|              |   |              |       |
|--------------|---|--------------|-------|
| GB12348-2008 | 3 |              |       |
|              |   | GB12348-2008 | 4     |
|              |   | GB3096-2008  | 3     |
| 20           |   | 100000       | 0.02% |

6.4

6.4.1

|            |           |            |
|------------|-----------|------------|
| 515.573t/a | 146.15t/a | 661.723t/a |
|------------|-----------|------------|

6.4.2

6.4.2.1

2

6.4.2.2

2016

HW08

900-249-08

HW13

900-015-13

HW49

900-041-49

6.4-1

6.4-1

|     |     |    | t/a    |    |  |  |
|-----|-----|----|--------|----|--|--|
|     |     |    |        |    |  |  |
| S1  |     |    | 0.27   | -- |  |  |
| S2  |     |    | 6      | -- |  |  |
| S3  |     |    | 31     | -- |  |  |
| S4  |     |    | 15     | -- |  |  |
| S5  |     |    | 69.943 | -- |  |  |
| S6  |     |    | 142    | -- |  |  |
| S8  |     |    | 206    | -- |  |  |
| S7  |     |    | 0.16   | -- |  |  |
| S9  |     |    | --     | 60 |  |  |
| S10 |     |    | --     | 65 |  |  |
| S11 |     |    | 7      | 3  |  |  |
| S13 |     |    | 32     | 10 |  |  |
| S12 | FDY | -- | 2      | 8  |  |  |

|     |  |  |        |      |  |  |
|-----|--|--|--------|------|--|--|
|     |  |  |        |      |  |  |
| S14 |  |  | 5t/4a  | --   |  |  |
| S15 |  |  | 10t/4a | --   |  |  |
| S16 |  |  | 0.45   | 0.15 |  |  |

### 6.4.3

## 6.5

### 6.5-1

#### 6.5-1

|  |  |           |                                    |  |
|--|--|-----------|------------------------------------|--|
|  |  |           |                                    |  |
|  |  | 38m<br>P1 | GB16297-1996 2<br>DB37/2376-2013 2 |  |
|  |  | 16m<br>P2 | 6<br>DB37/801.6-2018 1             |  |
|  |  | +         | 1<br>GB16297-1996 2                |  |
|  |  | +         | 44m<br>DB37/2376-2013 2            |  |

P3



1  
15m  
P10

|  |  |            |                                                                          |                      |
|--|--|------------|--------------------------------------------------------------------------|----------------------|
|  |  | 35m<br>P15 | 2 GB14554-93<br>VOCs<br><br>6<br>DB37/801.6-2018 1                       |                      |
|  |  | 35m<br>P16 | 6<br>DB37/801.6-2018 2<br><br>GB16297-1996 2                             |                      |
|  |  | 15m<br>P17 | 2 GB14554-93<br><br>6<br>DB37/801.6-2018 2<br><br>GB16297-1996 2         |                      |
|  |  |            | GB16297-1996 2<br><br>GB14554-93 1<br>VOCs<br><br>6<br>DB37/801.6-2018 3 |                      |
|  |  |            | GB/T31962-2015 1A                                                        | GB/T31962-2015<br>1A |

[illegible]

## 6.6



|   |  |   |    |     |  |  |
|---|--|---|----|-----|--|--|
|   |  |   | 2  | 30  |  |  |
|   |  |   | 2  | 40  |  |  |
|   |  |   | 16 | 15  |  |  |
| 3 |  |   |    | 20  |  |  |
| 4 |  | 5 |    | 2   |  |  |
| 5 |  |   |    | 5   |  |  |
|   |  |   |    | 337 |  |  |

7.2.2

7.3 社会效益分析

## 8

### 8.1

#### 8.1.1

1

24

2

---

1

2

a

b

c

d

a

b

c

d

8.2

8.2-1



8.2-1

|  |  |  |   |        |                                                                        |                                       |                                     |     |     |  |
|--|--|--|---|--------|------------------------------------------------------------------------|---------------------------------------|-------------------------------------|-----|-----|--|
|  |  |  |   |        |                                                                        |                                       |                                     | t/a |     |  |
|  |  |  |   |        | 1.59mg/m <sup>3</sup>                                                  | GB16297-1996 2<br>DB37/2376-2013 2    | 0.0041t/a                           | --  | 26m |  |
|  |  |  |   |        | 6.4mg/m <sup>3</sup><br>0.89mg/m <sup>3</sup><br>16.8mg/m <sup>3</sup> | GB16297-1996 2<br>DB37/2376-2013 2    | 0.0588t/a<br>0.0084t/a<br>0.1571t/a | --  | 17m |  |
|  |  |  |   |        | 5.7mg/m <sup>3</sup><br>0.86mg/m <sup>3</sup><br>10.6mg/m <sup>3</sup> | DB37/2376-2013 2<br>DB37/801.6-2018 1 | 0.0479t/a<br>0.0076t/a<br>0.0865t/a | --  | 30m |  |
|  |  |  | + | 2      | 4.78mg/m <sup>3</sup><br>1.39mg/m <sup>3</sup>                         | GB16297-1996 2                        | 0.0496t/a<br>0.0143t/a              | --  | 25m |  |
|  |  |  | + | 2<br>2 | 5.37mg/m <sup>3</sup><br>1.68mg/m <sup>3</sup>                         | DB37/2376-2013 2                      | 0.0529t/a<br>0.0168t/a              | --  | 25m |  |



|  |  |      |  |  |                                                                                                                                                                                                             |                                    |                                                                                                      |        |     |  |
|--|--|------|--|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------------------------------------------------------------------------------------------------------|--------|-----|--|
|  |  |      |  |  | 0.043mg/m <sup>3</sup><br>0.112mg/m <sup>3</sup><br>0.068mg/m <sup>3</sup><br>0.024mg/m <sup>3</sup><br>0.038mg/m <sup>3</sup>                                                                              | 2                                  | 0.0029t/a<br>0.0075t/a<br>0.0046t/a<br>0.0016t/a<br>0.0028t/a                                        |        |     |  |
|  |  | VOCs |  |  | 0.259mg/m <sup>3</sup><br>9.75mg/m <sup>3</sup><br>1.625mg/m <sup>3</sup><br>0.043mg/m <sup>3</sup><br>0.112mg/m <sup>3</sup><br>0.068mg/m <sup>3</sup><br>0.024mg/m <sup>3</sup><br>0.038mg/m <sup>3</sup> |                                    | 0.0174t/a<br>0.6552t/a<br>0.1092t/a<br>0.0029t/a<br>0.0075t/a<br>0.0046t/a<br>0.0016t/a<br>0.0028t/a | 0.1092 | 35m |  |
|  |  | VOCs |  |  | 0.259mg/m <sup>3</sup><br>9.75mg/m <sup>3</sup><br>1.625mg/m <sup>3</sup><br>0.043mg/m <sup>3</sup><br>0.112mg/m <sup>3</sup><br>0.068mg/m <sup>3</sup><br>0.024mg/m <sup>3</sup><br>0.038mg/m <sup>3</sup> |                                    | 0.0174t/a<br>0.6552t/a<br>0.1092t/a<br>0.0029t/a<br>0.0075t/a<br>0.0046t/a<br>0.0016t/a<br>0.0028t/a | 0.1092 | 35m |  |
|  |  | VOCs |  |  | 0.28mg/m <sup>3</sup><br>1.525mg/m <sup>3</sup><br>0.014mg/m <sup>3</sup><br>0.136mg/m <sup>3</sup><br>0.57mg/m <sup>3</sup>                                                                                | GB14554-93 2<br><br>GB16297-1996 2 | 0.0188t/a<br>0.1025t/a<br>0.0009t/a<br>0.0092t/a<br>0.0383t/a                                        | 0.1025 | 35m |  |

|  |  |                                            |   |     |                                                                                                                                                                                    |                                                               |                                                                                        |        |     |  |
|--|--|--------------------------------------------|---|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------|--------|-----|--|
|  |  |                                            |   |     | 0.168mg/m <sup>3</sup><br>0.007mg/m <sup>3</sup>                                                                                                                                   | 6<br>DB37/801.6-2018<br>1 2                                   | 0.0113t/a<br>0.0005t/a                                                                 |        |     |  |
|  |  | VOCs                                       |   |     | 0.266mg/m <sup>3</sup><br>1.156mg/m <sup>3</sup><br>0.007mg/m <sup>3</sup><br>0.199mg/m <sup>3</sup><br>0.446mg/m <sup>3</sup><br>0.161mg/m <sup>3</sup><br>0.007mg/m <sup>3</sup> | GB14554-93 2<br>GB16297-1996 2<br>6<br>DB37/801.6-2018<br>1 2 | 0.0179t/a<br>0.0777t/a<br>0.0005t/a<br>0.0134/a<br>0.0300t/a<br>0.0105t/a<br>0.0005t/a | 0.0777 | 35m |  |
|  |  |                                            | + | 15m | 6.39mg/m <sup>3</sup><br>0.017mg/m <sup>3</sup>                                                                                                                                    | GB14554-93 2<br>GB16297-1996 2<br>6<br>DB37/801.6-2018<br>1   | 0.0103t/a<br>0.000027t/a                                                               | --     | 15m |  |
|  |  | pH COD <sub>Cr</sub><br>NH <sub>3</sub> -N |   |     |                                                                                                                                                                                    |                                                               |                                                                                        |        |     |  |
|  |  | pH COD <sub>Cr</sub><br>NH <sub>3</sub> -N |   |     | COD <sub>Cr</sub> 50mg/L<br>5mg/L                                                                                                                                                  | GB/T31962-2015 1A                                             | COD <sub>Cr</sub> 2.3t/a<br>0.23t/a                                                    | --     |     |  |

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|--|--|---------------------------------------------------|--|--|--|--|--|--|--|--|
|  |  | pH   COD <sub>Cr</sub><br>NH <sub>3</sub> -N   SS |  |  |  |  |  |  |  |  |
|--|--|---------------------------------------------------|--|--|--|--|--|--|--|--|

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8.5.1.1

### 8.5.1.2

COD

### 8.5.2

COD<sub>Cr</sub>

COD<sub>Cr</sub>

VOCs

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|--|---------------------------------------------------------------------------------------------------------------------|
|  |                                                                                                                     |
|  | 700m<br>SD-15-B1-03<br>9.1-1                                                                                        |
|  |                                                                                                                     |
|  | 1 TSP PM <sub>10</sub> PM <sub>2.5</sub><br>GB 3095-2012<br>HJ2.2-2018 D.1<br>2 GB<br>3838-2002<br>3 GB/T14848-2017 |

|  |                                                                                             |
|--|---------------------------------------------------------------------------------------------|
|  | <div>4</div> <div>(GB12348-2008)3</div> <div>(GB12348-2008)4</div> <div>GB3096-2008 3</div> |
|  | <div>2011</div> <div>2013</div>                                                             |

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50m

**9.2.4**

**9.2.5**

**9.2.6**

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9.3

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10.1.1

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|  |  |  |  |  | GB12348-2008   | 3               |     |
|  |  |  |  |  | GB12348-2008   | 4               |     |
|  |  |  |  |  | 10.1.5         |                 |     |
|  |  |  |  |  | 10.1.5.1       |                 |     |
|  |  |  |  |  | 1              |                 |     |
|  |  |  |  |  | 1              |                 |     |
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|  |  |  |  |  | 26m            | 0.15m           | P5  |
|  |  |  |  |  |                | GB16297-1996    |     |
|  |  |  |  |  | 2              |                 |     |
|  |  |  |  |  | DB37/2376-2013 | 2               |     |
|  |  |  |  |  |                |                 |     |
|  |  |  |  |  | 17m            | 0.2m            | P6  |
|  |  |  |  |  | 30m            | 0.2m            | P7  |
|  |  |  |  |  |                | GB16297-1996    |     |
|  |  |  |  |  | 2              |                 |     |
|  |  |  |  |  | DB37/2376-2013 | 2               |     |
|  |  |  |  |  |                | GB16297-1996    | 2   |
|  |  |  |  |  |                |                 |     |
|  |  |  |  |  | 6              | DB37/801.6-2018 |     |
|  |  |  |  |  | 1              |                 |     |
|  |  |  |  |  |                | 19              |     |
|  |  |  |  |  |                |                 | 25m |
|  |  |  |  |  | 0.2m           | P8 P9           |     |
|  |  |  |  |  | GB16297-1996   | 2               |     |
|  |  |  |  |  |                | DB37/2376-2013  | 2   |
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1 15m 0.3m P10  
GB16297-1996 2

DB37/2376-2013 2

GB31572-2015 5

GB16297-1996

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DB37/801.6-2018 1

GB14554-93 2

25m 0.3m P11

GB14554-93 2

GB16297-1996 2

DB37/2376-2013 2

VOCs

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DB37/801.6-2018 1

6

DB37/801.6-2018 2

GB16297-1996 2

35m 0.8m

P12 P13 P14

GB14554-93 2

GB16297-1996 2

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|-----------------|-----------------|----------------|-----------------|---|---|---|--|
|                 |                 | DB37/2376-2013 |                 | 2 |   |   |  |
| VOCs            |                 |                |                 |   |   |   |  |
|                 |                 | 6              | DB37/801.6-2018 |   | 1 |   |  |
| 6               | DB37/801.6-2018 |                | 2               |   |   |   |  |
|                 |                 | GB16297-1996   |                 | 2 |   |   |  |
|                 |                 |                |                 |   |   |   |  |
|                 |                 | 35m            |                 |   |   |   |  |
| 0.8m            | P15             |                |                 |   |   |   |  |
| GB14554-93      | 2               | VOCs           |                 |   |   |   |  |
|                 |                 | 6              |                 |   |   |   |  |
| DB37/801.6-2018 | 1               |                |                 |   |   |   |  |
|                 |                 | 6              | DB37/801.6-2018 |   | 2 |   |  |
| GB16297-1996    | 2               |                |                 |   |   |   |  |
|                 |                 |                |                 |   |   |   |  |
|                 |                 | 35m            |                 |   |   |   |  |
| 0.8m            | P16             |                |                 |   |   |   |  |
| GB14554-93      | 2               | VOCs           |                 |   |   |   |  |
|                 |                 | 6              |                 |   |   |   |  |
| DB37/801.6-2018 | 1               |                |                 |   |   |   |  |
|                 |                 | 6              | DB37/801.6-2018 |   |   |   |  |
| 2               |                 |                |                 |   |   |   |  |
| GB16297-1996    |                 |                |                 |   |   | 2 |  |
|                 |                 |                |                 |   |   |   |  |
| 15m             | 0.3             | P17            |                 |   |   |   |  |
|                 |                 | GB14554-93     | 2               |   |   |   |  |
|                 |                 | 6              |                 |   |   |   |  |
| DB37/801.6-2018 | 2               |                |                 |   |   |   |  |

GB16297-1996 2

2

G8

G18

GB14554-93 1

GB16297-1996 2

VOCs

6 DB37/801.6-2018 3

### 10.1.5.2

### 10.1.5.3

515.573t/a

146.15t/a

661.723t/a

2

2016

900-249-08

900-015-13

900-041-49

**10.1.5.4****10.1.6****10.1.6.1**PM<sub>10</sub> SO<sub>2</sub> NO<sub>2</sub> CO

GB3095-2012

PM<sub>2.5</sub> O<sub>3</sub>

GB3095-2012

SO<sub>2</sub> NO<sub>2</sub>

GB3095-2012

NH<sub>3</sub>

VOCs

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CH245-71

TSP PM<sub>10</sub> PM<sub>2.5</sub>**10.1.6.2**

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SO<sub>4</sub><sup>2-</sup>

2#

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3838-2002

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GB3838-2002

GB18918-2002 A  
GB3838-2002

**10.1.6.3**

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GB/T14848-2017

**10.1.6.4**

GB12348-2008 3  
GB12348-2008 4  
GB3096-2008 3

**10.1.7**

**10.1.7.1**

**10.1.7.2**

**10.1.7.3****10.1.7.4**

GB12348-2008 3

GB12348-2008 4

GB3096-2008 3

**10.1.7.5****10.1.8****10.1.9**COD<sub>Cr</sub>COD<sub>Cr</sub>

VOCs

**10.1.10**

**10.1.11****10.1.12****10.1.13**

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**10.2****10.2.1**

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|  |  |           |                                    |
|  |  | P5<br>26m | GB16297-1996 2<br>DB37/2376-2013 2 |
|  |  | P6<br>17m | GB16297-1996 2<br>DB37/2376-2013 2 |
|  |  | P7<br>30m | GB16297-1996 2                     |





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|  |  | P15<br>35m | GB14554-93 2<br>VOCs                                                   |
|  |  | P16<br>35m | 6<br>DB37/801.6-2018 1<br>6<br>DB37/801.6-2018 2<br>GB16297-1996 2     |
|  |  | 15m P17    | GB14554-93 2<br>6<br>DB37/801.6-2018 2<br>GB16297-1996 2               |
|  |  |            | GB16297-1996 2<br>GB14554-93<br>1<br>VOCs<br>6<br>DB37/801.6-2018<br>3 |
|  |  |            | GB/T31962-2015 1A                                                      |
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|  |  |            |                                                                        |

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