

HJ 2038-2014

Technical specification for management of municipal  
wastewater treatment plant operation

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|----|-------|----|
|    | ..... | II |
| 1  | ..... | 1  |
| 2  | ..... | 1  |
| 3  | ..... | 1  |
| 4  | ..... | 2  |
| 5  | ..... | 2  |
| 6  | ..... | 5  |
| 7  | ..... | 6  |
| 8  | ..... | 6  |
| 9  | ..... | 7  |
| 10 | ..... | 7  |
| 11 | ..... | 8  |
| 12 | ..... | 10 |
| A  | ..... | 13 |
| B  | ..... | 15 |

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GB 12348

GB 15562.1

GB 18918

CJJ 60

3.4 sludge treatment rate

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3.5 regulations on sludge transportation record

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3.6 installations

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5.1.1



|       |         |          |   |           |                   |
|-------|---------|----------|---|-----------|-------------------|
| c     |         |          |   | ч         | ч                 |
|       | ч       | BAF      |   |           |                   |
| d     |         |          |   | HJ 2009 ч | HJ 2010 ч HJ 2014 |
|       | Ш       |          |   |           |                   |
| 5.3   |         |          |   |           |                   |
| 5.3.1 |         |          |   | ч         |                   |
|       | HJ 2006 |          | Ш |           |                   |
| 5.3.2 |         |          |   |           | HJ 2008           |
|       | Ш       |          |   |           |                   |
| 5.3.3 |         |          |   |           |                   |
|       | HJ 579  |          | Ш |           |                   |
| 5.3.4 |         |          | ч |           |                   |
|       |         |          | Ш |           |                   |
| 5.3.5 |         |          |   |           |                   |
|       |         | Ш        |   |           |                   |
| 5.4   |         |          |   |           |                   |
| 5.4.1 |         |          |   |           |                   |
| a     |         |          |   |           | GB 15562.1        |
| b     |         |          |   |           | HJ/T 355          |
| c     |         |          |   |           |                   |
|       |         | ч        |   |           |                   |
| d     |         |          |   |           | Ш                 |
| 5.4.2 |         |          |   |           |                   |
| a     |         |          |   | HJ/T 372  |                   |
| b     |         | GB 18918 |   |           | Ш                 |
| 5.5   |         |          |   |           |                   |
| 5.5.1 |         |          |   |           |                   |

|       |                  |           |          |     |   |   |     |          |
|-------|------------------|-----------|----------|-----|---|---|-----|----------|
| 5.5.2 |                  |           | Ч        |     |   |   |     | Ч        |
|       |                  | Ш         |          |     |   |   |     |          |
| 5.5.3 |                  |           |          |     |   |   | COD | Ч        |
|       | BOD <sub>5</sub> | Ч         | SS       | ЧpH | Ч | N | Ч   | P        |
|       |                  | Ш         |          |     |   |   |     |          |
| 6     |                  |           |          |     |   |   |     |          |
| 6.1   |                  |           |          |     |   |   |     |          |
| 6.1.1 |                  |           |          |     | Ч |   | Ч   | Ш        |
| 6.1.2 |                  |           |          |     |   | Ч | Ч   | Ш        |
| 6.1.3 |                  |           |          | Ч   | Ч | Ч | Ч   |          |
|       |                  |           |          |     | Ч |   |     | Ш        |
| 6.1.4 |                  |           |          |     |   |   |     |          |
|       |                  |           |          |     |   |   | Ш   |          |
| 6.1.5 |                  | Ч         |          | Э   |   |   |     |          |
|       | Ю                | [2010]157 |          | Ш   |   |   |     |          |
| 6.1.5 |                  |           |          |     |   |   |     |          |
|       |                  | Ш         |          |     |   |   |     |          |
| 6.2   |                  |           |          |     |   |   |     |          |
| 6.2.1 |                  |           |          |     |   |   |     | Ш        |
| 6.2.2 |                  |           |          | Ч   | Ч |   |     |          |
|       |                  | Ш         |          |     |   |   |     |          |
| 6.2.3 |                  |           |          |     |   |   |     | Ш        |
| 6.2.4 |                  |           |          | A   |   |   | Ш   |          |
| 6.3   |                  |           |          |     |   |   |     |          |
| 6.3.1 |                  | Ч         | Ч        | Ч   |   |   |     |          |
|       |                  |           |          | Ш   |   |   |     |          |
| 6.3.2 |                  |           |          |     |   |   | Ш   |          |
| 6.4   |                  |           |          |     |   |   |     |          |
| 6.4.1 |                  |           |          |     |   |   |     | GB 18918 |
|       |                  | Ш         |          |     |   |   |     |          |
| 6.4.2 |                  |           |          |     |   |   |     | Ш        |
| 6.5   |                  |           |          |     |   |   |     |          |
|       |                  |           | GB 18918 |     |   | Ш |     |          |

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| e      |   |   |       |  |
|        | Ш |   |       |  |
| 10.2.2 |   |   |       |  |
| a      | Ч | Ч | COD Ч |  |

|        |   |   |   |
|--------|---|---|---|
| 11.1.2 | Ч | Ч | Ш |
| 11.2   |   |   |   |



a

GB 18918

b

W

### 12.2.2

a

GB 18918

b

W

12.2.3 4

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4

GB 18918

GB 12348

W

12.2.4

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4

W

### 12.2.5

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W

12.2.6

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ISO 9000

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12.3.3

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12.3.4

ISO 18000

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A

A.1

a  $V_1 \wr V_2$

$V_3$  m<sup>3</sup>/d

b  $V_1 \wr V_2 \wr V_3$

$$V_1 = \frac{1}{n} \sum_{i=1}^n v_i$$

A-1

$n \downarrow \downarrow$

$v_i \downarrow \downarrow \quad i \quad \Downarrow$

$${}_2 \quad 3600 \quad {}^n_{i \, 1} \quad i \quad i \quad i$$

$V$  | |  
 $e$

$V_3 \text{ m}^3$

A.2

$W$                        $Q$

1

$$W = \frac{1000 \cdot C \cdot \eta \cdot Q}{\rho \cdot 1 - P_1} \quad \text{A-6}$$

$W$  —  $\text{m}^3/\text{d}$

$\eta$  —

$C$  —  $\text{mg/L}$

$Q$  —  $\text{m}^3/\text{d}$

$\rho$  —  $1000 \text{ kg/m}^3$

$P_1$  —  $\text{m}^3$

2

$$W = aQ - Lr - bVX_v + cSrQ \quad \text{A-7}$$

$W$  —  $\text{m}^3/\text{d}$

$a$  —  $0.5-0.7 \text{ kg/kgBOD}_5$

$Q$  —  $\text{m}^3/\text{d}$

$Lr$  —  $\text{BOD}_5$   $\text{kg/m}^3$

$b$  —  $0.05 \text{ d}^{-1}$

$V$  —  $\text{m}^3$

$X_v$  —  $\text{MLVSS}$   $\text{kg/m}^3$

$Sr$  —  $\text{SS}$   $\text{kg/m}^3$

$c$  —  $0.5$

\*  $a \text{ m}^3 \text{ b m}^3 \text{ c m}^3$   $\text{m}^3$

3

$$W = W_1 + W_2 \quad \text{A-8}$$

4

$$W = W_1 \quad \text{A-9}$$

B

B.1

| A <sup>2</sup> /O A/O |   |  |  | 1 4<br>2 4<br>3 4<br>4 4    Ⅲ |  |  | 1 4 DO<br>2 4 MLSS Ⅲ           |  |
|-----------------------|---|--|--|-------------------------------|--|--|--------------------------------|--|
|                       | 4 |  |  | 1 4<br>2 4<br>3 4    Ⅲ        |  |  |                                |  |
|                       |   |  |  |                               |  |  | 1 4 DO<br>2 4 MLSS<br>3 4<br>Ⅲ |  |