

# Test Report

Client: Jack Wolfskin

Factory name: - **Supplier 5152**

Factory Address: -

Report No.: PX/2015/90083a

Date Reported: 2015/10/20

Date Sampled: 2015/09/14

Sample (s): Water

## REMARKS

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2. The results shown in this test report refer only to the sampling and the sample(s) tested unless otherwise stated.



Carry Kuo

Manager





## Positive result summary

| Ref. No. | ITEMS                 | CAS No.                                     | METHOD                                 | Water           |       |                  |                   |
|----------|-----------------------|---------------------------------------------|----------------------------------------|-----------------|-------|------------------|-------------------|
|          |                       |                                             |                                        | Reporting Limit | Inlet | Before Treatment | Local Requirement |
| 2.27     | Sodium Tetraborate**^ | 1303-96-4, 1303-43-4, 12179-04-3, 215-540-4 | Acid Digestion with ICP analysis       | 0.5 µg/L        | 174.8 | 194.6            |                   |
| 2.28     | Boron trioxide**^     | 1303-86-2                                   | Acid Digestion with ICP analysis       | 0.5 µg/L        | 122.4 | 136.2            |                   |
| 2.29     | Boric acid**^         | 10043-35-3, 11113-50-1                      | Acid Digestion with ICP analysis       | 0.5 µg/L        | 217.3 | 241.9            |                   |
| 7.1      | Dichloromethane       | 75-09-2                                     | Solvent extraction with GC/MS analysis | 1 µg/L          | 2     | -                |                   |
| 7.2      | Chloroform            | 67-66-3                                     | Solvent extraction with GC/MS analysis | 1 µg/L          | -     | 20               |                   |
| 10.2     | Total Lead (Pb)       | 7439-92-1                                   | Acid Digestion with ICP analysis       | 1 µg/L          | 1     | -                |                   |
| 10.8     | Total Copper (Cu)     | 7440-50-8                                   | Acid Digestion with ICP analysis       | 1 µg/L          | 2     | 2                |                   |
| 10.9     | Total Zinc (Zn)       | 7440-66-6                                   | Acid Digestion with ICP analysis       | 1 µg/L          | 28    | 26               |                   |
| 10.10    | Total Manganese (Mn)  | 7439-96-5                                   | Acid Digestion with ICP analysis       | 1 µg/L          | 22    | 1                |                   |
| 14.18    | Naphthalene           | 91-20-3                                     | Solvent extraction with GC/MS analysis | 1 µg/L          | 6     | 6                |                   |

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TWB 5055541



## Positive result summary

| Ref. No. | ITEMS           | CAS No. | METHOD       | Water           |       |                  |                   |
|----------|-----------------|---------|--------------|-----------------|-------|------------------|-------------------|
|          |                 |         |              | Reporting Limit | Inlet | Before Treatment | Local Requirement |
| 15.4     | TDS             | -       | SM 2540C     | 5 mg/L          | 198   | 245              |                   |
| 15.6     | Sulfide         | -       | SM 4500-S2-D | 0.005 mg/L      | 0.017 | 0.013            |                   |
| 15.9     | Total phenolics | -       | SM 5530B     | 0.002 mg/L      | 0.003 | 0.005            |                   |
| 15.10    | Ca Hardness     | -       | SM 2340B     | 5 mg/L          | 103   | -                |                   |
| 15.11    | Mg Hardness     | -       | SM 2340B     | 5 mg/L          | 61    | -                |                   |
| 15.12    | AOX             | -       | -            | 20 µg/L         | 74    | 65               |                   |

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# INORGANIC & ORGANIC ANALYSIS

Report No.: PX/2015/90083a

Factory:-

Sampling Address:-

| Ref. No. | ITEMS                                                                            | CAS No.                | METHOD                                 | Water                       |       |                  |                                   |
|----------|----------------------------------------------------------------------------------|------------------------|----------------------------------------|-----------------------------|-------|------------------|-----------------------------------|
|          |                                                                                  |                        |                                        | Waste Water Reporting Limit | Inlet | Before Treatment | Local Requirement (if applicable) |
| <b>1</b> | <b>Phthalates</b>                                                                |                        |                                        |                             |       |                  |                                   |
| 1.1      | Di-Butyl Phthalate (DBP)                                                         | 84-74-2                | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 1.2      | Di(2-Ethyl Hexyl) Phthalate (DEHP)                                               | 117-81-7               | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 1.3      | Benzyl Butyl Phthalate (BBP)                                                     | 85-68-7                | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 1.4      | Di-Iso-Nonyl Phthalate (DINP)                                                    | 28553-12-0, 68515-48-0 | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 1.5      | Di-N-Octyl Phthalate (DNOP)                                                      | 117-84-0               | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 1.6      | Di-Iso-Decyl Phthalate (DIDP)                                                    | 26761-40-0, 68515-49-1 | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 1.7      | Di-Iso-Butyl Phthalate (DIBP)                                                    | 84-69-5                | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 1.8      | Di-N-Hexyl Phthalate (DNHP)                                                      | 84-75-3                | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 1.9      | Bis(2-methoxyethyl)phthalate (DMEP)*                                             | 117-82-8               | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 1.10     | 1,2-Benzenedicarboxylic acid, Di-C7-11 Branched and Linear Alkyl Esters (DHNUP)* | 68515-42-4             | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 1.11     | Di-Iso-Hexyl Phthalate (DIHP)*                                                   | 71888-89-6             | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 1.12     | Di-pentylphthalate (n-, iso-, or mixed) (DPP)*                                   | 131-18-0               | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| <b>2</b> | <b>Halogenated Flame retardants</b>                                              |                        |                                        |                             |       |                  |                                   |
|          | Polybrominated biphenyls (PBBs)                                                  | 59536-65-1 various     |                                        |                             |       |                  |                                   |
| 2.1      | Monobromo biphenyls (MonoBB)                                                     | -                      | Solvent extraction with GC/MS analysis | 0.05 µg/L                   | <0.05 | <0.05            |                                   |
| 2.2      | Dibromo biphenyls (DiBB)                                                         | -                      | Solvent extraction with GC/MS analysis | 0.05 µg/L                   | <0.05 | <0.05            |                                   |
| 2.3      | Tribromo biphenyls (TriBB)                                                       | -                      | Solvent extraction with GC/MS analysis | 0.05 µg/L                   | <0.05 | <0.05            |                                   |
| 2.4      | Tetrabromo biphenyls (TetraBB)                                                   | -                      | Solvent extraction with GC/MS analysis | 0.05 µg/L                   | <0.05 | <0.05            |                                   |
| 2.5      | Pentabromo biphenyls (PentaBB)                                                   | -                      | Solvent extraction with GC/MS analysis | 0.05 µg/L                   | <0.05 | <0.05            |                                   |
| 2.6      | Hexabromo biphenyls (HexaBB)                                                     | -                      | Solvent extraction with GC/MS analysis | 0.05 µg/L                   | <0.05 | <0.05            |                                   |
| 2.7      | Heptabromo biphenyls (HeptaBB)                                                   | -                      | Solvent extraction with GC/MS analysis | 0.05 µg/L                   | <0.05 | <0.05            |                                   |
| 2.8      | Octabromo biphenyls (OctaBB)                                                     | -                      | Solvent extraction with GC/MS analysis | 0.05 µg/L                   | <0.05 | <0.05            |                                   |
| 2.9      | Nonabromo biphenyls (NonaBB)                                                     | -                      | Solvent extraction with GC/MS analysis | 0.05 µg/L                   | <0.05 | <0.05            |                                   |
| 2.10     | Decabromo biphenyls (DecaBB)                                                     | 13654-09-6 various     | Solvent extraction with GC/MS analysis | 0.05 µg/L                   | <0.05 | <0.05            |                                   |
|          | Polybrominated diphenyl ethers (PBDEs)                                           |                        |                                        |                             |       |                  |                                   |
| 2.11     | Monobromo diphenyl ethers (MonoBDE)                                              | -                      | Solvent extraction with GC/MS analysis | 0.05 µg/L                   | <0.05 | <0.05            |                                   |
| 2.12     | Dibromo diphenyl ethers (DiBDE)                                                  | -                      | Solvent extraction with GC/MS analysis | 0.05 µg/L                   | <0.05 | <0.05            |                                   |
| 2.13     | Tribromo diphenyl ethers (TriBDE)                                                | -                      | Solvent extraction with GC/MS analysis | 0.05 µg/L                   | <0.05 | <0.05            |                                   |
| 2.14     | Tetrabromo diphenyl ethers (TetraBDE)                                            | 40088-47-9             | Solvent extraction with GC/MS analysis | 0.05 µg/L                   | <0.05 | <0.05            |                                   |
| 2.15     | Pentabromo diphenyl ethers (PentaBDE)                                            | 32534-81-9             | Solvent extraction with GC/MS analysis | 0.05 µg/L                   | <0.05 | <0.05            |                                   |

# INORGANIC & ORGANIC ANALYSIS

Report No.: PX/2015/90083a

Factory:-

Sampling Address:-

| Ref. No.                                | ITEMS                                          | CAS No.                                                      | METHOD                                          | Water                       |       |                  |                                   |
|-----------------------------------------|------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------|-----------------------------|-------|------------------|-----------------------------------|
|                                         |                                                |                                                              |                                                 | Waste Water Reporting Limit | Inlet | Before Treatment | Local Requirement (if applicable) |
| 2.16                                    | Hexabromo diphenyl ethers (HexaBDE)            | 36483-60-0                                                   | Solvent extraction with GC/MS analysis          | 0.05 µg/L                   | <0.05 | <0.05            |                                   |
| 2.17                                    | Heptabromo diphenyl ethers (HeptaBDE)          | 68928-80-3                                                   | Solvent extraction with GC/MS analysis          | 0.05 µg/L                   | <0.05 | <0.05            |                                   |
| 2.18                                    | Octabromo diphenyl ethers (OctaBDE)            | 32536-52-0                                                   | Solvent extraction with GC/MS analysis          | 0.05 µg/L                   | <0.05 | <0.05            |                                   |
| 2.19                                    | Nonabromo diphenyl ethers (NonaBDE)            | 63936-56-1                                                   | Solvent extraction with GC/MS analysis          | 0.05 µg/L                   | <0.05 | <0.05            |                                   |
| 2.20                                    | Decabromo diphenyl ethers (DecaBDE)            | 1163-19-5                                                    | Solvent extraction with GC/MS analysis          | 0.05 µg/L                   | <0.05 | <0.05            |                                   |
| 2.21                                    | Tris(2,3-dibromopropyl) phosphate (TRIS)       | 126-72-7                                                     | Solvent extraction with GC/MS or LC/MS analysis | 0.5 µg/L                    | <0.5  | <0.5             |                                   |
| 2.22                                    | Tris(2-chloroethyl) phosphate (TCEP)           | 115-96-8                                                     | Solvent extraction with GC/MS or LC/MS analysis | 0.05 µg/L                   | <0.05 | <0.05            |                                   |
| 2.23                                    | Hexabromocyclododecane (HBCDD)                 | 134237-50-6, 134237-51-7, 134237-52-8, 25637-99-4, 3194-55-6 | Solvent extraction with GC/MS or LC/MS analysis | 0.5 µg/L                    | <0.5  | <0.5             |                                   |
| 2.24                                    | Tetrabromobisphenol A (TBBPA)                  | 79-94-7                                                      | Solvent extraction with GC/MS or LC/MS analysis | 0.5 µg/L                    | <0.5  | <0.5             |                                   |
| <b>Subgroup: Other Flame Retardants</b> |                                                |                                                              |                                                 |                             |       |                  |                                   |
| 2.25                                    | Tris(1-aziridinyl)phosphine oxide (TEPA)*      | 5455-55-1                                                    | Solvent extraction with GC/MS or LC/MS analysis | 0.5 µg/L                    | <0.5  | <0.5             |                                   |
| 2.26                                    | Bis(2,3-dibromopropyl)phosphate (BIS)*         | 5412-25-9                                                    | Solvent extraction with GC/MS or LC/MS analysis | 0.5 µg/L                    | <0.5  | <0.5             |                                   |
| 2.27                                    | Sodium Tetraborate**                           | 1303-96-4, 1303-43-4, 12179-04-3, 215-540-4                  | Acid Digestion with ICP analysis                | 0.5 µg/L                    | 174.8 | 194.6            |                                   |
| 2.28                                    | Boron trioxide**                               | 1303-86-2                                                    | Acid Digestion with ICP analysis                | 0.5 µg/L                    | 122.4 | 136.2            |                                   |
| 2.29                                    | Boric acid**                                   | 10043-35-3, 11113-50-1                                       | Acid Digestion with ICP analysis                | 0.5 µg/L                    | 217.3 | 241.9            |                                   |
| 2.30                                    | Antimony trioxide**                            | 1309-64-4                                                    | Acid Digestion with ICP analysis                | 0.5 µg/L                    | <0.5  | <0.5             |                                   |
| 2.31                                    | Tri-o-cresyl phosphate*                        | 78-30-8                                                      | Solvent extraction with GC/MS or LC/MS analysis | 0.5 µg/L                    | <0.5  | <0.5             |                                   |
| 2.32                                    | Tris(1,3-dichloro-2-propyl) phosphate (TDCPP)* | 13674-87-8                                                   | Solvent extraction with GC/MS or LC/MS analysis | 0.5 µg/L                    | <0.5  | <0.5             |                                   |
| 3                                       | <b>Amines (Associated with Azo dyes)</b>       |                                                              |                                                 |                             |       |                  |                                   |

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## INORGANIC &amp; ORGANIC ANALYSIS

Report No.: PX/2015/90083a

Factory:-

Sampling Address:-

| Ref. No. | ITEMS                                     | CAS No.  | METHOD                                                                  | Water                           |       |                  |                                      |
|----------|-------------------------------------------|----------|-------------------------------------------------------------------------|---------------------------------|-------|------------------|--------------------------------------|
|          |                                           |          |                                                                         | Waste Waster<br>Reporting Limit | Inlet | Before Treatment | Local Requirement<br>(if applicable) |
| 3.1      | 4-Aminodiphenyl                           | 92-67-1  | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                       | <0.01 | <0.01            |                                      |
| 3.2      | Benzidine                                 | 92-87-5  | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                       | <0.01 | <0.01            |                                      |
| 3.3      | 4-Chloro-o-Toluidine                      | 95-69-2  | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                       | <0.01 | <0.01            |                                      |
| 3.4      | 2-Naphthylamine                           | 91-59-8  | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                       | <0.01 | <0.01            |                                      |
| 3.5      | o-Aminoazotoluene                         | 97-56-3  | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                       | <0.01 | <0.01            |                                      |
| 3.6      | 2-Amino-4-Nitrotoluene                    | 99-55-8  | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                       | <0.01 | <0.01            |                                      |
| 3.7      | p-Chloroaniline                           | 106-47-8 | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                       | <0.01 | <0.01            |                                      |
| 3.8      | 2,4-Diaminoanisole                        | 615-05-4 | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                       | <0.01 | <0.01            |                                      |
| 3.9      | 4,4'-Diaminodiphenylmethane               | 101-77-9 | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                       | <0.01 | <0.01            |                                      |
| 3.10     | 3,3'-Dichlorobenzidine                    | 91-94-1  | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                       | <0.01 | <0.01            |                                      |
| 3.11     | 3,3'-Dimethoxybenzidine                   | 119-90-4 | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                       | <0.01 | <0.01            |                                      |
| 3.12     | 3,3'-Dimethylbenzidine                    | 119-93-7 | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                       | <0.01 | <0.01            |                                      |
| 3.13     | 3,3'-Dimethyl-4,4'-diaminodiphenylmethane | 838-88-0 | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                       | <0.01 | <0.01            |                                      |
| 3.14     | p-Cresidine                               | 120-71-8 | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                       | <0.01 | <0.01            |                                      |
| 3.15     | 4,4'-Methylene-Bis(2-Chloroaniline)       | 101-14-4 | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                       | <0.01 | <0.01            |                                      |
| 3.16     | 4,4'-Oxydianiline                         | 101-80-4 | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                       | <0.01 | <0.01            |                                      |

|                    |            |            |
|--------------------|------------|------------|
| Sampling Location  | -          | -          |
| Sampling Time      | 09:15      | 09:30      |
| Date Sampled       | 2015/09/14 | 2015/09/14 |
| Date Received      | 2015/09/15 | 2015/09/15 |
| Sample Description | -          | -          |

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TWB 5055545



## INORGANIC &amp; ORGANIC ANALYSIS

Report No.: PX/2015/90083a

Factory:-

Sampling Address:-

| Ref. No. | ITEMS                       | CAS No.    | METHOD                                                                  | Water                       |       |                  |                                   |
|----------|-----------------------------|------------|-------------------------------------------------------------------------|-----------------------------|-------|------------------|-----------------------------------|
|          |                             |            |                                                                         | Waste Water Reporting Limit | Inlet | Before Treatment | Local Requirement (if applicable) |
| 3.17     | 4,4'-Thiodianiline          | 139-65-1   | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                   | <0.01 | <0.01            |                                   |
| 3.18     | o-Toluidine                 | 95-53-4    | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                   | <0.01 | <0.01            |                                   |
| 3.19     | 2,4-Toluylenediamine        | 95-80-7    | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                   | <0.01 | <0.01            |                                   |
| 3.20     | 2,4,5-Trimethylaniline      | 137-17-7   | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                   | <0.01 | <0.01            |                                   |
| 3.21     | o-Anisidine                 | 90-04-0    | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                   | <0.01 | <0.01            |                                   |
| 3.22     | p-Aminoazobenzene           | 60-09-3    | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                   | <0.01 | <0.01            |                                   |
| 3.23     | 2,4-Xyldine                 | 95-68-1    | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                   | <0.01 | <0.01            |                                   |
| 3.24     | 2,6-Xyldine                 | 87-62-7    | With reference to EN 14362-1&3 and followed by GC/MS and HPLC Analysis. | 0.01 µg/L                   | <0.01 | <0.01            |                                   |
| 4        | Subgroup: Carcinogenic Dyes |            |                                                                         |                             |       |                  |                                   |
| 4.1      | Acid Red 26*                | 3761-53-3  | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             |                                   |
| 4.2      | Basic Red 9*                | 569-61-9   | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             |                                   |
| 4.3      | Basic Violet 14*            | 632-99-5   | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             |                                   |
| 4.4      | Direct Blue 6*              | 2602-46-2  | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             |                                   |
| 4.5      | Direct Red 28*              | 573-58-0   | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             |                                   |
| 4.6      | Direct Black 38*            | 1937-37-7  | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             |                                   |
| 4.7      | Disperse Blue 1*            | 2475-45-8  | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             |                                   |
| 4.8      | Disperse Yellow 3*          | 2832-40-8  | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             |                                   |
| 4.9      | Disperse Orange 11*         | 82-28-0    | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             |                                   |
| 4.10     | Disperse Yellow 23*         | 6250-23-3  | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             |                                   |
| 4.11     | Disperse Orange 149*        | 85136-74-9 | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             |                                   |
| 4.12     | Solvent Yellow 1*           | 60-09-3    | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             |                                   |
| 4.13     | Solvent Yellow 2*           | 60-11-7    | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             |                                   |
| 4.14     | Solvent Yellow 3*           | 97-56-3    | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             |                                   |
| 4.15     | Solvent Yellow 14*          | 842-07-9   | Solvent extraction with LC/MS analysis                                  | 0.1 µg/L                    | <0.1  | <0.1             |                                   |

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## INORGANIC &amp; ORGANIC ANALYSIS

Report No.: PX/2015/90083a

Factory:-

Sampling Address:-

| Ref. No.                                 | ITEMS                      | CAS No.    | METHOD                                                        | Water                          |       |                  |                                      |
|------------------------------------------|----------------------------|------------|---------------------------------------------------------------|--------------------------------|-------|------------------|--------------------------------------|
|                                          |                            |            |                                                               | Waste Water<br>Reporting Limit | Inlet | Before Treatment | Local Requirement<br>(if applicable) |
|                                          |                            |            |                                                               |                                |       |                  |                                      |
| 4.16                                     | Basic Blue 26*             | 2580-56-5  | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                       | <0.1  | <0.1             |                                      |
| 4.17                                     | Basic Violet 1*            | 8004-87-3  | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                       | <0.1  | <0.1             |                                      |
| 4.18                                     | Direct Brown 95*           | 16071-86-6 | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                       | <0.1  | <0.1             |                                      |
| 4.19                                     | Direct Blue 15*            | 2429-74-5  | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                       | <0.1  | <0.1             |                                      |
| 4.20                                     | Direct Blue 218*           | 28407-37-6 | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                       | <0.1  | <0.1             |                                      |
| 4.21                                     | Acid Red 114*              | 6459-94-5  | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                       | <0.1  | <0.1             |                                      |
| 4.22                                     | Acid Violet 49*            | 1694-09-3  | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                       | <0.1  | <0.1             |                                      |
| <b>Subgroup: Allegenic Disperse Dyes</b> |                            |            |                                                               |                                |       |                  |                                      |
| 4.23                                     | Disperse Blue 1*           | 2475-45-8  | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                       | <0.1  | <0.1             |                                      |
| 4.24                                     | Disperse Blue 3*           | 2475-46-9  | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                       | <0.1  | <0.1             |                                      |
| 4.25                                     | Disperse Blue 7*           | 3179-90-6  | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                       | <0.1  | <0.1             |                                      |
| 4.26                                     | Disperse Blue 26*          | 3860-63-7  | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                       | <0.1  | <0.1             |                                      |
| 4.27                                     | Disperse Blue 35*          | 12222-75-2 | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                       | <0.1  | <0.1             |                                      |
| 4.28                                     | Disperse Blue 102*         | 12222-97-8 | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                       | <0.1  | <0.1             |                                      |
| 4.29                                     | Disperse Blue 106*         | 12223-01-7 | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                       | <0.1  | <0.1             |                                      |
| 4.30                                     | Disperse Blue 124*         | 61951-51-7 | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                       | <0.1  | <0.1             |                                      |
| 4.31                                     | Disperse Brown 1*          | 23355-64-8 | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                       | <0.1  | <0.1             |                                      |
| 4.32                                     | Disperse Orange 1*         | 2581-69-3  | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                       | <0.1  | <0.1             |                                      |
| 4.33                                     | Disperse Orange 3*         | 730-40-5   | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                       | <0.1  | <0.1             |                                      |
| 4.34                                     | Disperse Orange 37/76*     | 13301-61-6 | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                       | <0.1  | <0.1             |                                      |
| 4.35                                     | Disperse Red 1*            | 2872-52-8  | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                       | <0.1  | <0.1             |                                      |
| 4.36                                     | Disperse Red 11*           | 2872-48-2  | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                       | <0.1  | <0.1             |                                      |
| 4.37                                     | Disperse Red 17*           | 3179-89-3  | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                       | <0.1  | <0.1             |                                      |
| 4.38                                     | Disperse Yellow 1*         | 119-15-3   | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                       | <0.1  | <0.1             |                                      |
| 4.39                                     | Disperse Yellow 3*         | 2832-40-8  | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                       | <0.1  | <0.1             |                                      |
| 4.40                                     | Disperse Yellow 9*         | 6373-73-5  | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                       | <0.1  | <0.1             |                                      |
| 4.41                                     | Disperse Yellow 39*        | 12236-29-2 | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                       | <0.1  | <0.1             |                                      |
| 4.42                                     | Disperse Yellow 49*        | 54824-37-2 | Solvent extraction with LC/MS analysis                        | 0.1 µg/L                       | <0.1  | <0.1             |                                      |
| 5                                        | <b>Organotin compounds</b> |            |                                                               |                                |       |                  |                                      |
| 5.1                                      | Monobutyltin (MBT)         | 1118-46-3  | With reference to DIN EN17353 and followed by GC/MS analysis. | 0.01 µg/L                      | <0.01 | <0.01            |                                      |

|                    |            |            |
|--------------------|------------|------------|
| Sampling Location  | -          | -          |
| Sampling Time      | 09:15      | 09:30      |
| Date Sampled       | 2015/09/14 | 2015/09/14 |
| Date Received      | 2015/09/15 | 2015/09/15 |
| Sample Description | -          | -          |

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TWB 5055547





## INORGANIC &amp; ORGANIC ANALYSIS

Report No.: PX/2015/90083a

Factory:-

Sampling Address:-

| Ref. No. | ITEMS                             | CAS No.    | METHOD                                                        | Water                       |       |                  |                                   |
|----------|-----------------------------------|------------|---------------------------------------------------------------|-----------------------------|-------|------------------|-----------------------------------|
|          |                                   |            |                                                               | Waste Water Reporting Limit | Inlet | Before Treatment | Local Requirement (If applicable) |
| 5.2      | Dibutyltin (DBT)                  | 1002-53-5  | With reference to DIN EN17353 and followed by GC/MS analysis. | 0.01 µg/L                   | <0.01 | <0.01            |                                   |
| 5.3      | Tributyltin (TBT)                 | 56573-85-4 | With reference to DIN EN17353 and followed by GC/MS analysis. | 0.01 µg/L                   | <0.01 | <0.01            |                                   |
| 5.4      | Triphenyltin (TPHT)               | 892-20-6   | With reference to DIN EN17353 and followed by GC/MS analysis. | 0.01 µg/L                   | <0.01 | <0.01            |                                   |
| 5.5      | Diocyltin (DOT)                   | 94410-05-6 | With reference to DIN EN17353 and followed by GC/MS analysis. | 0.01 µg/L                   | <0.01 | <0.01            |                                   |
| 5.6      | Monooctyltin (MOT)                | 15231-44-4 | With reference to DIN EN17353 and followed by GC/MS analysis. | 0.01 µg/L                   | <0.01 | <0.01            |                                   |
| 5.7      | Diphenyltin (DPHT)                | 1011-95-6  | With reference to DIN EN17353 and followed by GC/MS analysis. | 0.01 µg/L                   | <0.01 | <0.01            |                                   |
| 5.8      | Tetrabutyltin (TeBT)              | 1461-25-2  | With reference to DIN EN17353 and followed by GC/MS analysis. | 0.01 µg/L                   | <0.01 | <0.01            |                                   |
| 5.9      | Tricyclohexyltin (TCyT)           | NA         | With reference to DIN EN17353 and followed by GC/MS analysis. | 0.01 µg/L                   | <0.01 | <0.01            |                                   |
| 5.10     | Tripropyltin (TPT)                | NA         | With reference to DIN EN17353 and followed by GC/MS analysis. | 0.01 µg/L                   | <0.01 | <0.01            |                                   |
| 5.11     | Tetraethyltin (TeET)              | 597-64-8   | With reference to DIN EN17353 and followed by GC/MS analysis. | 0.01 µg/L                   | <0.01 | <0.01            |                                   |
| 5.12     | Bis(tributyltin) oxide (TBTO)*    | 56-35-9    | With reference to DIN EN17353 and followed by GC/MS analysis. | 0.01 µg/L                   | <0.01 | <0.01            |                                   |
| 5.13     | Dibutyltin dichloride (DBTC)*     | 683-18-1   | With reference to DIN EN17353 and followed by GC/MS analysis. | 0.01 µg/L                   | <0.01 | <0.01            |                                   |
| 5.14     | Triphenyltin (TPT)*               | 668-34-8   | With reference to DIN EN17353 and followed by GC/MS analysis. | 0.01 µg/L                   | <0.01 | <0.01            |                                   |
| 5.15     | Dibutyltin hydrogen borate (DBB)* | 75113-37-0 | With reference to DIN EN17353 and followed by GC/MS analysis. | 0.01 µg/L                   | <0.01 | <0.01            |                                   |
| 6        | <b>Chloro-Benzenes</b>            |            |                                                               |                             |       |                  |                                   |
| 6.1      | Dichlorobenzenes                  | various    |                                                               |                             |       |                  |                                   |
| 6.2      | 1,2-Dichlorobenzene               | 95-50-1    | Solvent extraction with GC/MS analysis                        | 0.02 µg/L                   | <0.02 | <0.02            |                                   |
|          | 1,3-Dichlorobenzene               | 541-73-1   | Solvent extraction with GC/MS analysis                        | 0.02 µg/L                   | <0.02 | <0.02            |                                   |

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TWB 5055548



INORGANIC & ORGANIC ANALYSIS

Report No.: PX2015/90083a

Factory:-

Sampling Address:-

| Ref. No. | ITEMS                                      | CAS No.    | METHOD                                 | Water                       |       |                  |                                   |
|----------|--------------------------------------------|------------|----------------------------------------|-----------------------------|-------|------------------|-----------------------------------|
|          |                                            |            |                                        | Waste Water Reporting Limit | Inlet | Before Treatment | Local Requirement (if applicable) |
| 6.3      | 1,4-Dichlorobenzene                        | 106-46-7   | Solvent extraction with GC/MS analysis | 0.02 µg/L                   | <0.02 | <0.02            |                                   |
| 6.4      | Trichlorobenzene                           | various    | Solvent extraction with GC/MS analysis | 0.02 µg/L                   | <0.02 | <0.02            |                                   |
| 6.5      | 1,2,3-Trichlorobenzene                     | 87-61-6    | Solvent extraction with GC/MS analysis | 0.02 µg/L                   | <0.02 | <0.02            |                                   |
| 6.6      | 1,2,4-Trichlorobenzene                     | 120-82-1   | Solvent extraction with GC/MS analysis | 0.02 µg/L                   | <0.02 | <0.02            |                                   |
| 6.7      | 1,3,5-Trichlorobenzene                     | 108-70-3   | Solvent extraction with GC/MS analysis | 0.02 µg/L                   | <0.02 | <0.02            |                                   |
| 6.8      | Tetrachlorobenzene                         | 12408-10-5 | Solvent extraction with GC/MS analysis | 0.02 µg/L                   | <0.02 | <0.02            |                                   |
| 6.9      | 1,2,3,4-Tetrachlorobenzene                 | 634-66-2   | Solvent extraction with GC/MS analysis | 0.02 µg/L                   | <0.02 | <0.02            |                                   |
| 6.10     | 1,2,3,5-Tetrachlorobenzene                 | 634-90-2   | Solvent extraction with GC/MS analysis | 0.02 µg/L                   | <0.02 | <0.02            |                                   |
| 6.11     | 1,2,4,5-Tetrachlorobenzene                 | 95-94-3    | Solvent extraction with GC/MS analysis | 0.02 µg/L                   | <0.02 | <0.02            |                                   |
| 6.12     | Hexachlorobenzene                          | 608-93-5   | Solvent extraction with GC/MS analysis | 0.02 µg/L                   | <0.02 | <0.02            |                                   |
| 6.13     | Chloro-Toluenes                            | 118-74-1   | Solvent extraction with GC/MS analysis | 0.02 µg/L                   | <0.02 | <0.02            |                                   |
| 6.14     | 2-chlorotoluene*                           | 95-49-8    | Solvent extraction with GC/MS analysis | 0.02 µg/L                   | <0.02 | <0.02            |                                   |
| 6.15     | 3-chlorotoluene*                           | 108-41-8   | Solvent extraction with GC/MS analysis | 0.02 µg/L                   | <0.02 | <0.02            |                                   |
| 6.16     | 4-chlorotoluene*                           | 106-43-4   | Solvent extraction with GC/MS analysis | 0.02 µg/L                   | <0.02 | <0.02            |                                   |
| 6.17     | 2,3-dichlorotoluene*                       | 32768-54-0 | Solvent extraction with GC/MS analysis | 0.02 µg/L                   | <0.02 | <0.02            |                                   |
| 6.18     | 2,4-dichlorotoluene*                       | 95-73-8    | Solvent extraction with GC/MS analysis | 0.02 µg/L                   | <0.02 | <0.02            |                                   |
| 6.19     | 2,5-dichlorotoluene*                       | 19398-61-9 | Solvent extraction with GC/MS analysis | 0.02 µg/L                   | <0.02 | <0.02            |                                   |
| 6.20     | 2,6-dichlorotoluene*                       | 118-69-4   | Solvent extraction with GC/MS analysis | 0.02 µg/L                   | <0.02 | <0.02            |                                   |
| 6.21     | 3,4-dichlorotoluene*                       | 95-75-0    | Solvent extraction with GC/MS analysis | 0.02 µg/L                   | <0.02 | <0.02            |                                   |
| 6.22     | 2,3,6-trichlorotoluene*                    | 2077-46-5  | Solvent extraction with GC/MS analysis | 0.02 µg/L                   | <0.02 | <0.02            |                                   |
| 6.23     | 2,4,5-trichlorotoluene*                    | 6639-30-1  | Solvent extraction with GC/MS analysis | 0.02 µg/L                   | <0.02 | <0.02            |                                   |
| 6.24     | Benzotrifluoride*                          | 98-07-7    | Solvent extraction with GC/MS analysis | 0.02 µg/L                   | <0.02 | <0.02            |                                   |
| 6.25     | alpha,2,4-trichlorotoluene*                | 94-99-5    | Solvent extraction with GC/MS analysis | 0.02 µg/L                   | <0.02 | <0.02            |                                   |
| 6.26     | alpha,3,4-trichlorotoluene*                | 2014-83-7  | Solvent extraction with GC/MS analysis | 0.02 µg/L                   | <0.02 | <0.02            |                                   |
| 6.27     | alpha, alpha, 2,6-tetrachlorotoluene*      | 102-47-6   | Solvent extraction with GC/MS analysis | 0.02 µg/L                   | <0.02 | <0.02            |                                   |
| 6.28     | alpha, alpha, alpha, 2-tetrachlorotoluene* | 81-19-6    | Solvent extraction with GC/MS analysis | 0.02 µg/L                   | <0.02 | <0.02            |                                   |
| 6.29     | alpha, alpha, alpha, 4-tetrachlorotoluene* | 2136-89-2  | Solvent extraction with GC/MS analysis | 0.02 µg/L                   | <0.02 | <0.02            |                                   |
| 7        | Chlorinated solvents                       | 5216-25-1  | Solvent extraction with GC/MS analysis | 0.02 µg/L                   | <0.02 | <0.02            |                                   |
|          |                                            | 877-11-2   | Solvent extraction with GC/MS analysis | 0.02 µg/L                   | <0.02 | <0.02            |                                   |

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## INORGANIC &amp; ORGANIC ANALYSIS

Report No.: PX/2015/90083a

Factory:-

Sampling Address:-

|                    |            |            |
|--------------------|------------|------------|
| Sampling Location  | -          | -          |
| Sampling Time      | 09:15      | 09:30      |
| Date Sampled       | 2015/09/14 | 2015/09/14 |
| Date Received      | 2015/09/15 | 2015/09/15 |
| Sample Description | -          | -          |

| Ref. No.   | ITEMS                       | CAS No.   | METHOD                                 | Water                       |       |                  |                                   |
|------------|-----------------------------|-----------|----------------------------------------|-----------------------------|-------|------------------|-----------------------------------|
|            |                             |           |                                        | Waste Water Reporting Limit | Inlet | Before Treatment | Local Requirement (if applicable) |
| 7.1        | Dichloromethane             | 75-09-2   | Solvent extraction with GC/MS analysis | 1 µg/L                      | 2     | <1               |                                   |
| 7.2        | Chloroform                  | 67-66-3   | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | 20               |                                   |
| 7.3        | Tetrachloromethane          | 56-23-5   | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 7.4        | 1,1,2-Trichloroethane       | 79-00-5   | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 7.5        | 1,1-Dichloroethane          | 75-34-3   | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 7.6        | 1,2-Dichloroethane          | 107-06-2  | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 7.7        | Trichloroethylene           | 79-01-6   | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 7.8        | Perchloroethylene           | 127-18-4  | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 7.9        | 1,1,1-trichloroethane       | 71-55-6   | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 7.10       | 1,1,1,2-Tetrachloroethane   | 630-20-6  | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 7.11       | 1,1,2,2-Tetrachloroethane   | 79-34-5   | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 7.12       | Pentachloroethane           | 76-01-7   | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 7.13       | 1,1-Dichloroethylene        | 75-35-4   | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| Other VOCs |                             |           |                                        |                             |       |                  |                                   |
| 7.14       | Methyl-ethyl ketone*        | 78-93-3   | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 7.15       | Benzene*                    | 71-43-2   | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 7.16       | Toluene*                    | 108-88-3  | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 7.17       | Ethylbenzene*               | 100-41-4  | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 7.18       | Xylene*                     | 1330-20-7 | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 7.19       | Styrene*                    | 100-42-5  | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 7.20       | Cyclohexanone*              | 108-94-1  | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 7.21       | 2-ethoxyethylacetate*       | 111-15-9  | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 7.22       | 1,2,3-trichloropropane*     | 96-18-4   | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 7.23       | Acetophenone*               | 98-86-2   | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 7.24       | N,N-dimethylformamide*      | 68-12-2   | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 7.25       | 1-methyl-2-pyrrolidone*     | 872-50-4  | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 7.26       | 2-phenyl-2-propanol*        | 617-94-7  | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 7.27       | Bis-(2-methoxyethyl) ether* | 111-96-6  | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 7.28       | N,N-dimethylacetamide*      | 127-19-5  | Solvent extraction with GC/MS analysis | 1 µg/L                      | <1    | <1               |                                   |
| 8          | Chloro-Phenols              |           |                                        |                             |       |                  |                                   |

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## INORGANIC &amp; ORGANIC ANALYSIS

Report No.: PX/2015/90083a

Factory:-

Sampling Address:-

| Ref. No. | ITEMS                     | CAS No.    | METHOD                                                                                  | Water                       |       |                  |                                   |
|----------|---------------------------|------------|-----------------------------------------------------------------------------------------|-----------------------------|-------|------------------|-----------------------------------|
|          |                           |            |                                                                                         | Waste Water Reporting Limit | Inlet | Before Treatment | Local Requirement (if applicable) |
| 8.1      | Pentachlorophenols (PCP)  | 87-86-5    | Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis. | 0.5 µg/L                    | <0.5  | <0.5             |                                   |
| 8.2      | Tetrachlorophenols (TeCP) | 25167-83-3 |                                                                                         |                             |       |                  |                                   |
|          | 2,3,4,5-Tetrachlorophenol | 4901-51-3  | Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis. | 0.5 µg/L                    | <0.5  | <0.5             |                                   |
| 8.3      | 2,3,4,6-Tetrachlorophenol | 58-90-2    | Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis. | 0.5 µg/L                    | <0.5  | <0.5             |                                   |
| 8.4      | 2,3,5,6-tetrachlorophenol | 935-95-5   | Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis. | 0.5 µg/L                    | <0.5  | <0.5             |                                   |
|          | Trichlorophenol (TriCP)   | 25167-82-2 |                                                                                         |                             |       |                  |                                   |
| 8.5      | 2,4,6-trichlorophenol     | 88-06-2    | Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis. | 0.5 µg/L                    | <0.5  | <0.5             |                                   |
| 8.6      | 2,3,4-trichlorophenol     | 15950-66-0 | Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis. | 0.5 µg/L                    | <0.5  | <0.5             |                                   |
| 8.7      | 2,3,5-trichlorophenol     | 933-78-8   | Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis. | 0.5 µg/L                    | <0.5  | <0.5             |                                   |
| 8.8      | 2,3,6-trichlorophenol     | 933-75-5   | Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis. | 0.5 µg/L                    | <0.5  | <0.5             |                                   |
| 8.9      | 2,4,5-trichlorophenol     | 95-95-4    | Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis. | 0.5 µg/L                    | <0.5  | <0.5             |                                   |
| 8.10     | 3,4,5-trichlorophenol     | 609-19-8   | Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis. | 0.5 µg/L                    | <0.5  | <0.5             |                                   |
|          | Dichlorophenols (DiCP)    | 25167-81-1 |                                                                                         |                             |       |                  |                                   |
| 8.11     | 2,3-dichlorophenol        | 576-24-9   | Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis. | 0.5 µg/L                    | <0.5  | <0.5             |                                   |
| 8.12     | 2,4-dichlorophenol        | 120-83-2   | Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis. | 0.5 µg/L                    | <0.5  | <0.5             |                                   |
| 8.13     | 2,5-dichlorophenol        | 583-78-8   | Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis. | 0.5 µg/L                    | <0.5  | <0.5             |                                   |
| 8.14     | 3,4-dichlorophenol        | 95-77-2    | Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis. | 0.5 µg/L                    | <0.5  | <0.5             |                                   |
| 8.15     | 3,5-dichlorophenol        | 591-35-5   | Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis. | 0.5 µg/L                    | <0.5  | <0.5             |                                   |

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# INORGANIC & ORGANIC ANALYSIS

Report No.: PX/2015/90083a

Factory:-

Sampling Address:-

| Ref. No. | ITEMS                                                                      | CAS No.                                                               | METHOD                                                                                  | Water                       |                 |                  |                                   |
|----------|----------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------|-----------------|------------------|-----------------------------------|
|          |                                                                            |                                                                       |                                                                                         | Waste Water Reporting Limit | Inlet           | Before Treatment | Local Requirement (if applicable) |
| 8.16     | Mono Chlorophenol                                                          | Various                                                               | Solvent extraction and derivatisation with acetic anhydride followed by GC/MS analysis. | 0.5 µg/L                    | <0.5            | <0.5             |                                   |
| 9        | <b>Short Chain Chlorinated Paraffins (SCCP) with C10 -C13</b>              |                                                                       |                                                                                         |                             |                 |                  |                                   |
| 9.1      | Short Chain Chlorinated Paraffins (SCCP), C <sub>10</sub> -C <sub>13</sub> | 85535-84-8                                                            | Solvent extraction with GC/MS and GC/MS analysis                                        | 0.4 µg/L                    | <0.4            | <0.4             |                                   |
| 10       | <b>Heavy Metals</b>                                                        |                                                                       |                                                                                         |                             |                 |                  |                                   |
| 10.1     | Total Cadmium (Cd)                                                         | 7440-43-9                                                             | Acid Digestion with ICP analysis                                                        | 0.1 µg/L                    | <0.1            | <0.1             |                                   |
| 10.2     | Total Lead (Pb)                                                            | 7439-92-1                                                             | Acid Digestion with ICP analysis                                                        | 1 µg/L                      | 1               | <1               |                                   |
| 10.3     | Total Mercury (Hg)                                                         | 7439-97-6                                                             | Acid Digestion with ICP analysis                                                        | 0.05 µg/L                   | <0.05           | <0.05            |                                   |
| 10.4     | Total Nickel (Ni)                                                          | 7440-02-0                                                             | Acid Digestion with ICP analysis                                                        | 1 µg/L                      | <1              | <1               |                                   |
| 10.5     | Total Hexavalent Chromium (Cr-VI)                                          | 18540-29-9                                                            | Solvent extraction and derivatisation followed by UV analysis                           | 1 µg/L                      | <1 <sup>Δ</sup> | <1 <sup>Δ</sup>  |                                   |
| 10.6     | Total Arsenic (As)                                                         | 7440-38-2                                                             | Acid Digestion with ICP analysis                                                        | 1 µg/L                      | <1              | <1               |                                   |
| 10.7     | Total Chromium (Cr)                                                        | 7440-47-3                                                             | Acid Digestion with ICP analysis                                                        | 1 µg/L                      | <1              | <1               |                                   |
| 10.8     | Total Copper (Cu)                                                          | 7440-50-8                                                             | Acid Digestion with ICP analysis                                                        | 1 µg/L                      | 2               | 2                |                                   |
| 10.9     | Total Zinc (Zn)                                                            | 7440-66-6                                                             | Acid Digestion with ICP analysis                                                        | 1 µg/L                      | 28              | 26               |                                   |
| 10.10    | Total Manganese (Mn)                                                       | 7439-96-5                                                             | Acid Digestion with ICP analysis                                                        | 1 µg/L                      | 22              | 1                |                                   |
| 10.11    | Total Antimony (Sb)                                                        | 7440-36-0                                                             | Acid Digestion with ICP analysis                                                        | 1 µg/L                      | <1              | <1               |                                   |
| 10.12    | Total Cobalt (Co)*                                                         | 7440-48-4                                                             | Acid Digestion with ICP analysis                                                        | 1 µg/L                      | <1              | <1               |                                   |
| 11       | <b>Alkylphenols (APEOs)</b>                                                |                                                                       |                                                                                         |                             |                 |                  |                                   |
| 11.1     | Octylphenol                                                                | various<br>140-66-9, 27193-28-8, 1806-26-4                            | With Reference to DIN EN ISO 18857 and followed by LC/MS analysis                       | 1 µg/L                      | <1              | <1               |                                   |
| 11.2     | Nonylphenol                                                                | various<br>25154-52-3, 104-40-5, 90481-04-2, 84852-15-3, 1173019-62-9 | With Reference to DIN EN ISO 18857 and followed by LC/MS analysis                       | 1 µg/L                      | <1              | <1               |                                   |
| 11.3     | NPEO, n=1-2                                                                | various                                                               | With Reference to DIN EN ISO 18857 and followed by LC/MS analysis                       | 1 µg/L                      | <1              | <1               |                                   |

## INORGANIC &amp; ORGANIC ANALYSIS

Report No.: PX/2015/90083a

Factory:-

Sampling Address:-

| Ref. No. | ITEMS                                              | CAS No.                                                                    | METHOD                                                                    | Water                       |       |                  |                                   |
|----------|----------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------------------|-------|------------------|-----------------------------------|
|          |                                                    |                                                                            |                                                                           | Waste Water Reporting Limit | Inlet | Before Treatment | Local Requirement (if applicable) |
| 11.4     | NPEO, n=3~18                                       | various<br>9016-45-9, 26027-38-3<br>68412-54-4, 127087-87-0,<br>37205-87-1 | With Reference to DIN EN ISO 18857 and followed by LC/MS analysis         | 1 µg/L                      | <1    | <1               |                                   |
| 11.5     | OPEO, n=1~2                                        | various                                                                    | With Reference to DIN EN ISO 18857 and followed by LC/MS analysis         | 1 µg/L                      | <1    | <1               |                                   |
| 11.6     | OPEO, n=3~18                                       | various<br>9002-93-1, 9036-19-5,<br>68987-90-6                             | With Reference to DIN EN ISO 18857 and followed by LC/MS analysis         | 1 µg/L                      | <1    | <1               |                                   |
| 12       | PFCS (Perfluorocarbon / Polyfluorinated Compounds) |                                                                            |                                                                           |                             |       |                  |                                   |
| 12.1     | PFOA                                               | 335-67-1                                                                   | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            |                                   |
| 12.2     | PFNA                                               | 375-95-1                                                                   | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            |                                   |
| 12.3     | PFBS                                               | 375-73-5, 59933-66-3                                                       | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            |                                   |
| 12.4     | PFOS                                               | 1763-23-1                                                                  | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            |                                   |
| 12.5     | POSF                                               | 307-35-7                                                                   | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            |                                   |
| 12.6     | 4:2 FTOH                                           | 2043-47-2                                                                  | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.1 µg/L                    | <0.1  | <0.1             |                                   |
| 12.7     | 6:2 FTOH                                           | 647-42-7                                                                   | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.1 µg/L                    | <0.1  | <0.1             |                                   |
| 12.8     | 8:2 FTOH                                           | 678-39-7                                                                   | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.1 µg/L                    | <0.1  | <0.1             |                                   |
| 12.9     | 10:2 FTOH                                          | 865-86-1                                                                   | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.1 µg/L                    | <0.1  | <0.1             |                                   |
| 12.10    | PFHXS                                              | 355-46-4                                                                   | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            |                                   |
| 12.11    | PFHXA                                              | 307-24-4                                                                   | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            |                                   |

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## INORGANIC &amp; ORGANIC ANALYSIS

Report No.: PX/2015/90083a

Factory:-

Sampling Address:-

| Ref. No. | ITEMS             | CAS No.    | METHOD                                                                    | Water                       |       |                  |                                   |  |
|----------|-------------------|------------|---------------------------------------------------------------------------|-----------------------------|-------|------------------|-----------------------------------|--|
|          |                   |            |                                                                           | Waste Water Reporting Limit | Inlet | Before Treatment | Local Requirement (if applicable) |  |
| 12.12    | PFOSA             | 754-91-6   | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.1 µg/L                    | <0.1  | <0.1             |                                   |  |
| 12.13    | N-Me-FOSA         | 31506-32-8 | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.1 µg/L                    | <0.1  | <0.1             |                                   |  |
| 12.14    | N-Et-FOSA         | 4151-50-2  | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.1 µg/L                    | <0.1  | <0.1             |                                   |  |
| 12.15    | N-Me-FOSE alcohol | 24448-09-7 | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.1 µg/L                    | <0.1  | <0.1             |                                   |  |
| 12.16    | N-Et-FOSE alcohol | 1691-99-2  | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.1 µg/L                    | <0.1  | <0.1             |                                   |  |
| 12.17    | PFBA              | 375-22-4   | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            |                                   |  |
| 12.18    | PFPeA             | 2706-90-3  | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            |                                   |  |
| 12.19    | PFHpA             | 375-85-9   | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            |                                   |  |
| 12.20    | PFDA              | 335-76-2   | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            |                                   |  |
| 12.21    | PFUnA             | 2058-94-8  | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            |                                   |  |
| 12.22    | PFDoA             | 307-55-1   | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            |                                   |  |
| 12.23    | PFTrA             | 72629-94-8 | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            |                                   |  |
| 12.24    | PFTeA             | 376-06-7   | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            |                                   |  |
| 12.25    | PFHpS             | 375-92-8   | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            |                                   |  |
| 12.26    | PFDS              | 335-77-3   | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            |                                   |  |
| 12.27    | 6:2 FTA           | 17527-29-6 | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.1 µg/L                    | <0.1  | <0.1             |                                   |  |

|                    |            |            |
|--------------------|------------|------------|
| Sampling Location  | -          | -          |
| Sampling Time      | 09:15      | 09:30      |
| Date Sampled       | 2015/09/14 | 2015/09/14 |
| Date Received      | 2015/09/15 | 2015/09/15 |
| Sample Description | -          | -          |

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## INORGANIC &amp; ORGANIC ANALYSIS

Report No.: PX/2015/90083a

Factory:-

Sampling Address:-

| Ref. No. | ITEMS                                   | CAS No.     | METHOD                                                                    | Water                       |       |                  |                                   |  |
|----------|-----------------------------------------|-------------|---------------------------------------------------------------------------|-----------------------------|-------|------------------|-----------------------------------|--|
|          |                                         |             |                                                                           | Waste Water Reporting Limit | Inlet | Before Treatment | Local Requirement (if applicable) |  |
| 12.28    | 8:2 FTA                                 | 27905-45-9  | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.1 µg/L                    | <0.1  | <0.1             |                                   |  |
| 12.29    | 10:2 FTA                                | 17741-60-5  | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.1 µg/L                    | <0.1  | <0.1             |                                   |  |
| 12.30    | PF-3,7-DMOA                             | 172155-07-6 | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            |                                   |  |
| 12.31    | HPFHpA                                  | 1546-95-8   | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            |                                   |  |
| 12.32    | 4HPFUnA                                 | 34598-33-9  | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            |                                   |  |
| 12.33    | 1H, 1H, 2H, 2H- PFOS                    | 27619-97-2  | With reference to CEN/TS 15968 and analysis with LC/MS and GC/MS analysis | 0.01 µg/L                   | <0.01 | <0.01            |                                   |  |
| 13       | Ortho- Phenylphenol                     |             |                                                                           |                             |       |                  |                                   |  |
| 13.1     | o-Phenylphenol (OPP)                    | 90-43-7     | Solvent extraction followed by GC/MS analysis.                            | -                           | -     | -                |                                   |  |
| 14       | Polycyclic Aromatic Hydrocarbons (PAHs) |             |                                                                           |                             |       |                  |                                   |  |
| 14.1     | Benzo[a]pyrene (BaP)                    | 50-32-8     | Solvent extraction with GC/MS analysis                                    | 1 µg/L                      | <1    | <1               |                                   |  |
| 14.2     | Anthracene                              | 120-12-7    | Solvent extraction with GC/MS analysis                                    | 1 µg/L                      | <1    | <1               |                                   |  |
| 14.3     | Pyrene                                  | 129-00-0    | Solvent extraction with GC/MS analysis                                    | 1 µg/L                      | <1    | <1               |                                   |  |
| 14.4     | Benzo[ghi]perylene                      | 191-24-2    | Solvent extraction with GC/MS analysis                                    | 1 µg/L                      | <1    | <1               |                                   |  |
| 14.5     | Benzo[k]pyrene                          | 192-97-2    | Solvent extraction with GC/MS analysis                                    | 1 µg/L                      | <1    | <1               |                                   |  |
| 14.6     | Indeno[1,2,3-cd]pyrene                  | 193-39-5    | Solvent extraction with GC/MS analysis                                    | 1 µg/L                      | <1    | <1               |                                   |  |
| 14.7     | Benzo[j]fluoranthene                    | 205-82-3    | Solvent extraction with GC/MS analysis                                    | 1 µg/L                      | <1    | <1               |                                   |  |
| 14.8     | Benzo[b]fluoranthene                    | 205-99-2    | Solvent extraction with GC/MS analysis                                    | 1 µg/L                      | <1    | <1               |                                   |  |
| 14.9     | Fluoranthene                            | 206-44-0    | Solvent extraction with GC/MS analysis                                    | 1 µg/L                      | <1    | <1               |                                   |  |
| 14.10    | Benzo[k]fluoranthene                    | 207-08-9    | Solvent extraction with GC/MS analysis                                    | 1 µg/L                      | <1    | <1               |                                   |  |
| 14.11    | Acenaphthylene                          | 208-96-8    | Solvent extraction with GC/MS analysis                                    | 1 µg/L                      | <1    | <1               |                                   |  |
| 14.12    | Chrysene                                | 218-01-9    | Solvent extraction with GC/MS analysis                                    | 1 µg/L                      | <1    | <1               |                                   |  |
| 14.13    | Dibenz[a,h]anthracene                   | 53-70-3     | Solvent extraction with GC/MS analysis                                    | 1 µg/L                      | <1    | <1               |                                   |  |
| 14.14    | Benzo[a]anthracene                      | 56-55-3     | Solvent extraction with GC/MS analysis                                    | 1 µg/L                      | <1    | <1               |                                   |  |
| 14.15    | Acenaphthene                            | 83-32-9     | Solvent extraction with GC/MS analysis                                    | 1 µg/L                      | <1    | <1               |                                   |  |
| 14.16    | Phenanthrene                            | 85-01-8     | Solvent extraction with GC/MS analysis                                    | 1 µg/L                      | <1    | <1               |                                   |  |

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## INORGANIC &amp; ORGANIC ANALYSIS

Report No.: PX/2015/90083a

Factory:-

Sampling Address:-

| Ref. No.       | ITEMS                   | CAS No.            | METHOD                                                                           | Water                       |              |                  |                                   |
|----------------|-------------------------|--------------------|----------------------------------------------------------------------------------|-----------------------------|--------------|------------------|-----------------------------------|
|                |                         |                    |                                                                                  | Waste Water Reporting Limit | Inlet        | Before Treatment | Local Requirement (if applicable) |
| 14.17<br>14.18 | Fluorene<br>Naphthalene | 86-73-7<br>91-20-3 | Solvent extraction with GC/MS analysis<br>Solvent extraction with GC/MS analysis | 1 µg/L<br>1 µg/L            | <1<br>6      | <1<br>6          |                                   |
| 15             | General Chemistry       |                    |                                                                                  |                             |              |                  |                                   |
| 15.1           | BOD (5-day)             | -                  | SM 5210                                                                          | 2 mg/L                      | <2           | <2               |                                   |
| 15.2           | COD                     | -                  | USEPA 410.4 or SM 5220D                                                          | 5 mg/L                      | <5           | <5               |                                   |
| 15.3           | TSS                     | -                  | SM 2540D                                                                         | 5 mg/L                      | <5           | <5               |                                   |
| 15.4           | TDS                     | -                  | SM 2540C                                                                         | 5 mg/L                      | 198          | 245              |                                   |
| 15.5           | Cyanide                 | -                  | APHA 4500 CN—B,C & E                                                             | 0.01 mg/L                   | <0.01        | <0.01            |                                   |
| 15.6           | Sulfide                 | -                  | SM 4500-S2-D                                                                     | 0.005 mg/L                  | 0.017        | 0.013            |                                   |
| 15.7           | pH Value                | -                  | SM 54500H+                                                                       | -                           | 8.0(27.3 °C) | 8.8(32.5 °C)     |                                   |
| 15.8           | Colour                  | -                  | USEPA 110.2 or SM 2120B or ISO 7887-2011<br>Method D                             | 5 CU                        | <5           | <5               |                                   |
| 15.9           | Total phenolics         | -                  | SM 5530B                                                                         | 0.002 mg/L                  | 0.003        | 0.005            |                                   |
| 15.10          | Ca Hardness             | -                  | SM 2340B                                                                         | 5 mg/L                      | 103          | <5               |                                   |
| 15.11          | Mg Hardness             | -                  | SM 2340B                                                                         | 5 mg/L                      | 61           | <5               |                                   |
| 15.12          | AOX <sup>†</sup>        | -                  | -                                                                                | 20 µg/L                     | 74           | 65               |                                   |
| 15.13          | Percentage moisture     | -                  | in-house method                                                                  | -                           | -            | -                |                                   |

Remark:

<sup>\*</sup>Best current testing technology using lowest detection<sup>†</sup>The test result is based on the calculation of selected element(s) and to the worst-case scenario<sup>a</sup>The sample is diluted before testing due to matrix interference.<sup>†</sup>AOX testing was performed by SGS Nederland BV.

\*\*\*End of Report\*\*\*

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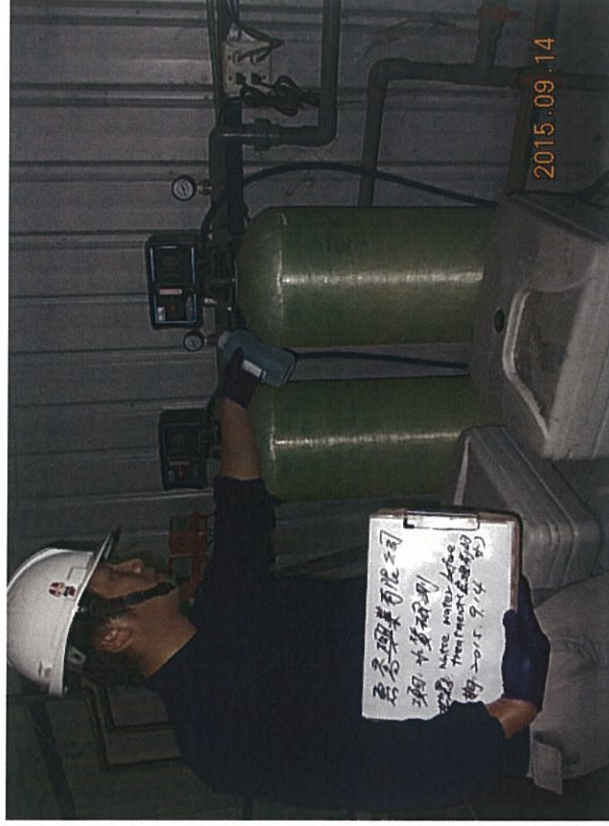
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# PHOTOGRAPHS

INLET



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