



We give second life to water!

Control study report of combined stormwater (SW) and domestic and industrial waste water (DIWW) treatment

2017, St. Petersburg



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Main task of the study

To reduce contaminants content
and achieve recreation water
parameters according to
Municipality of the City guidelines

- Manganese – 0,1 mg/l
- Iron – 2,8 mg/l



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Technology

Testing of technology for biological purification of combined SW and DIWW from iron, manganese and other contaminants.

To cope with the task the pilot facility, based on ALTA GROUP standard equipment, have been built and installed



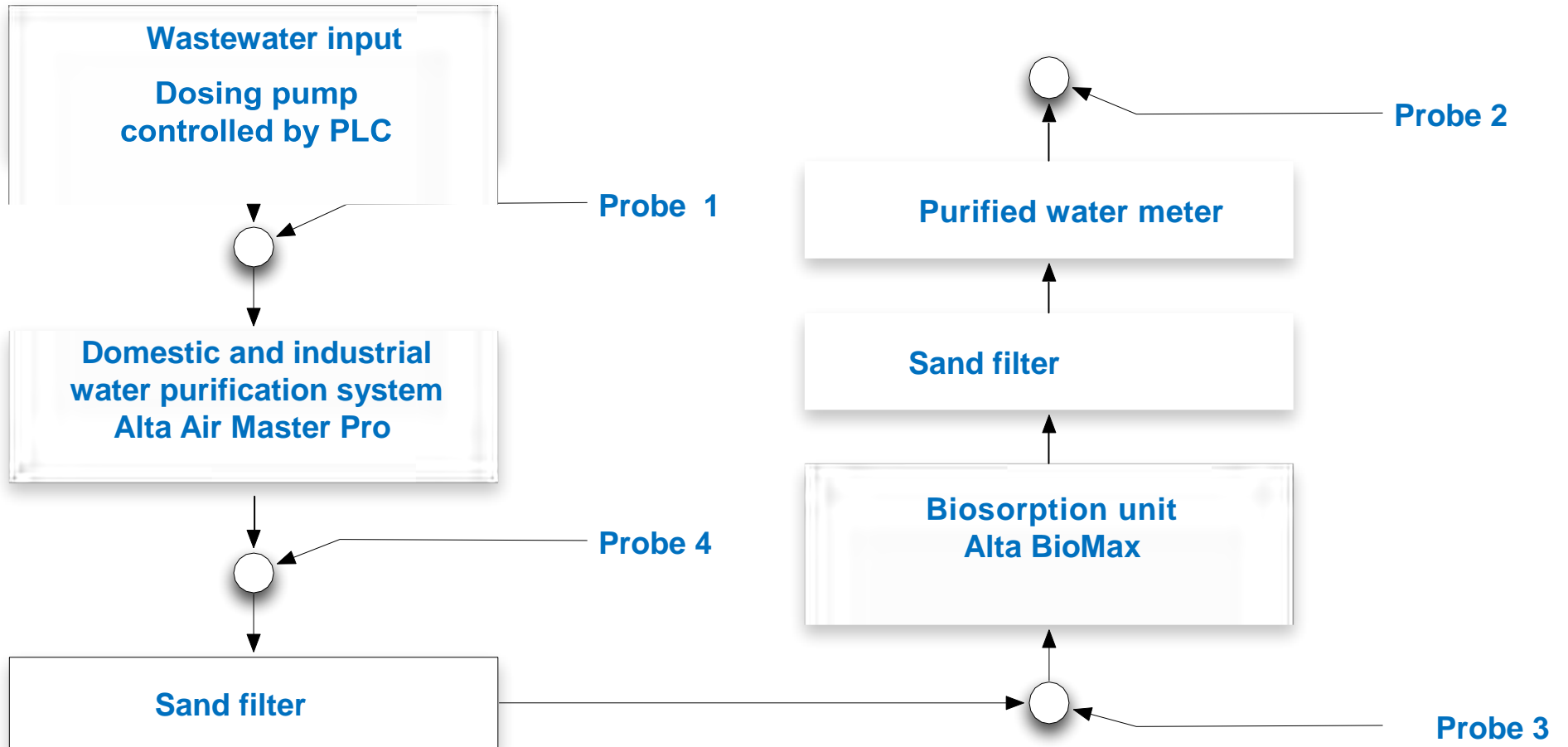
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Results

- Output contaminants concentrations are much lower than guidelines maximum acceptable concentrations
- At the output of the system good quality recreation water is received. It could be used to pay back the investment for modernization of existing facilities

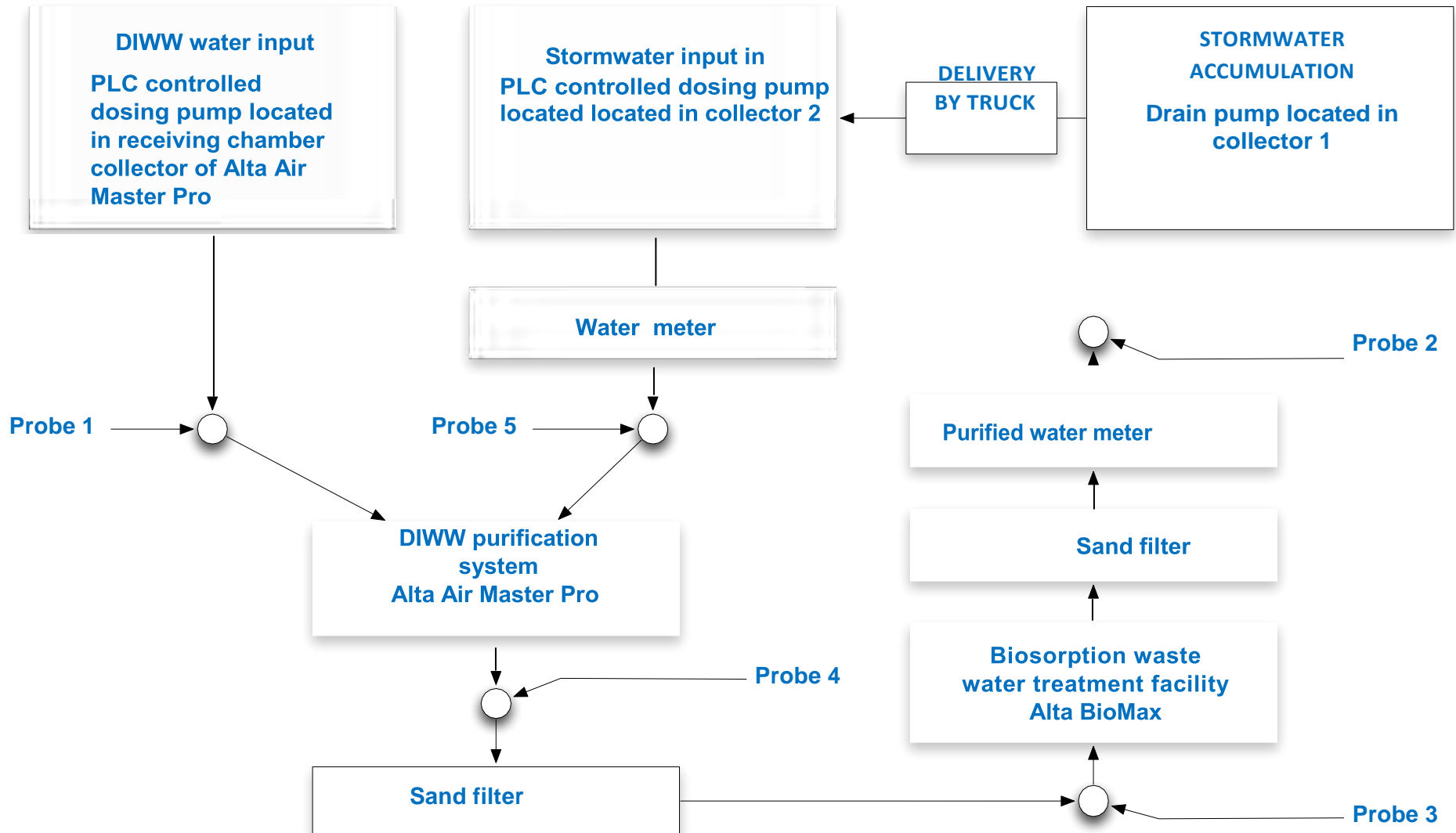


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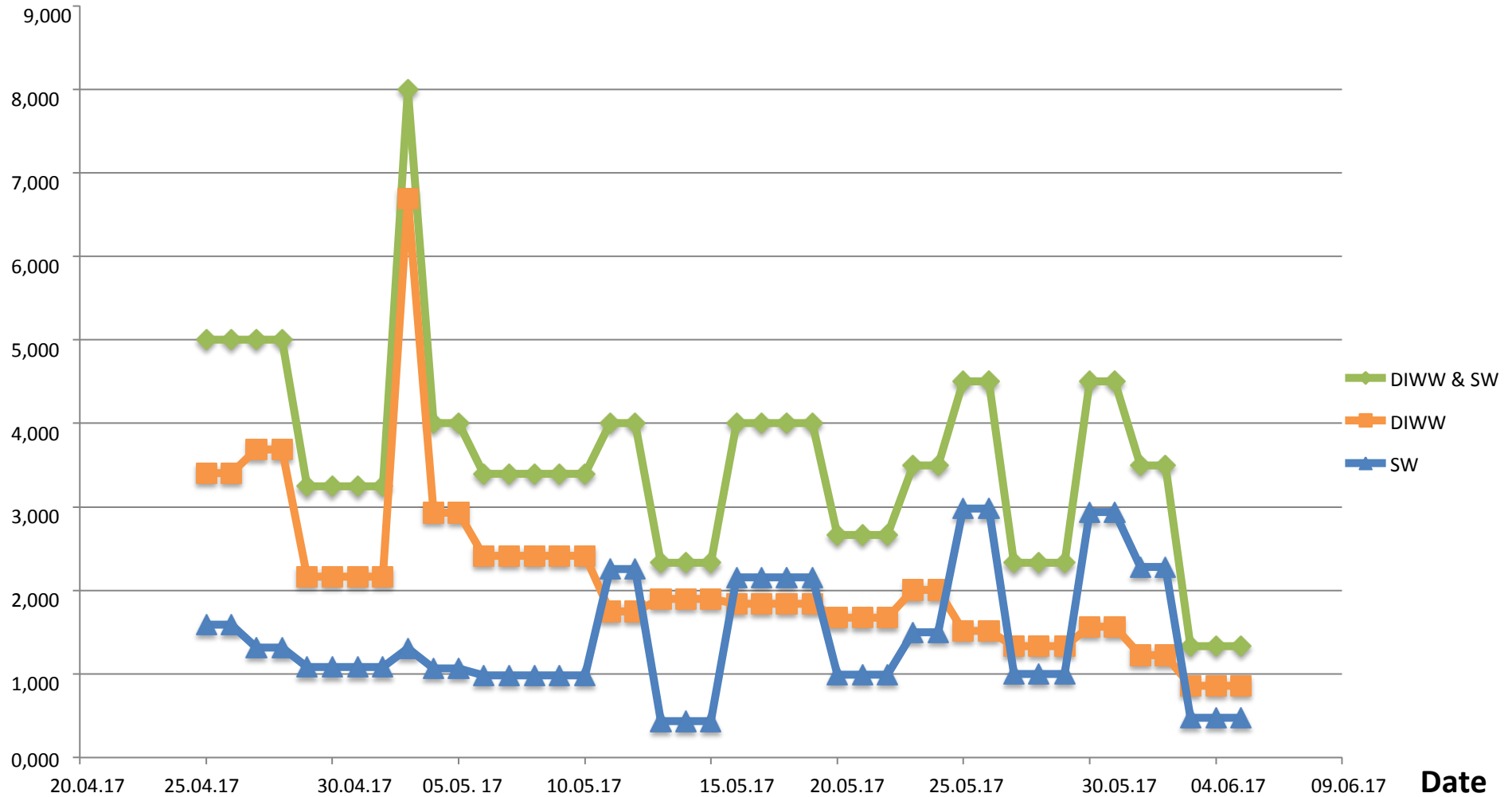
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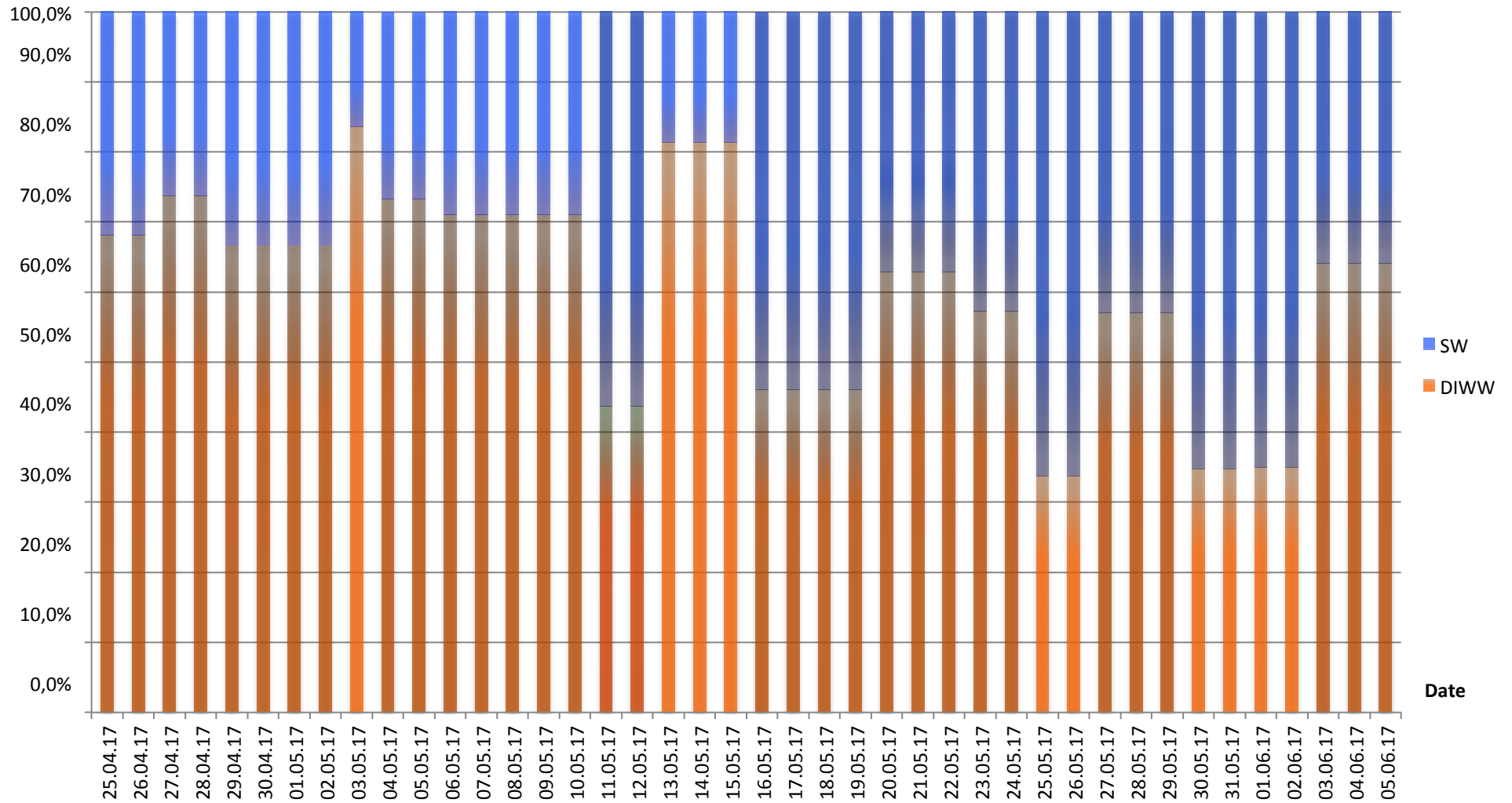
m³/24H Waste water input into Alta Air Master Pro facility





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Percent ratio between DIWW and SW

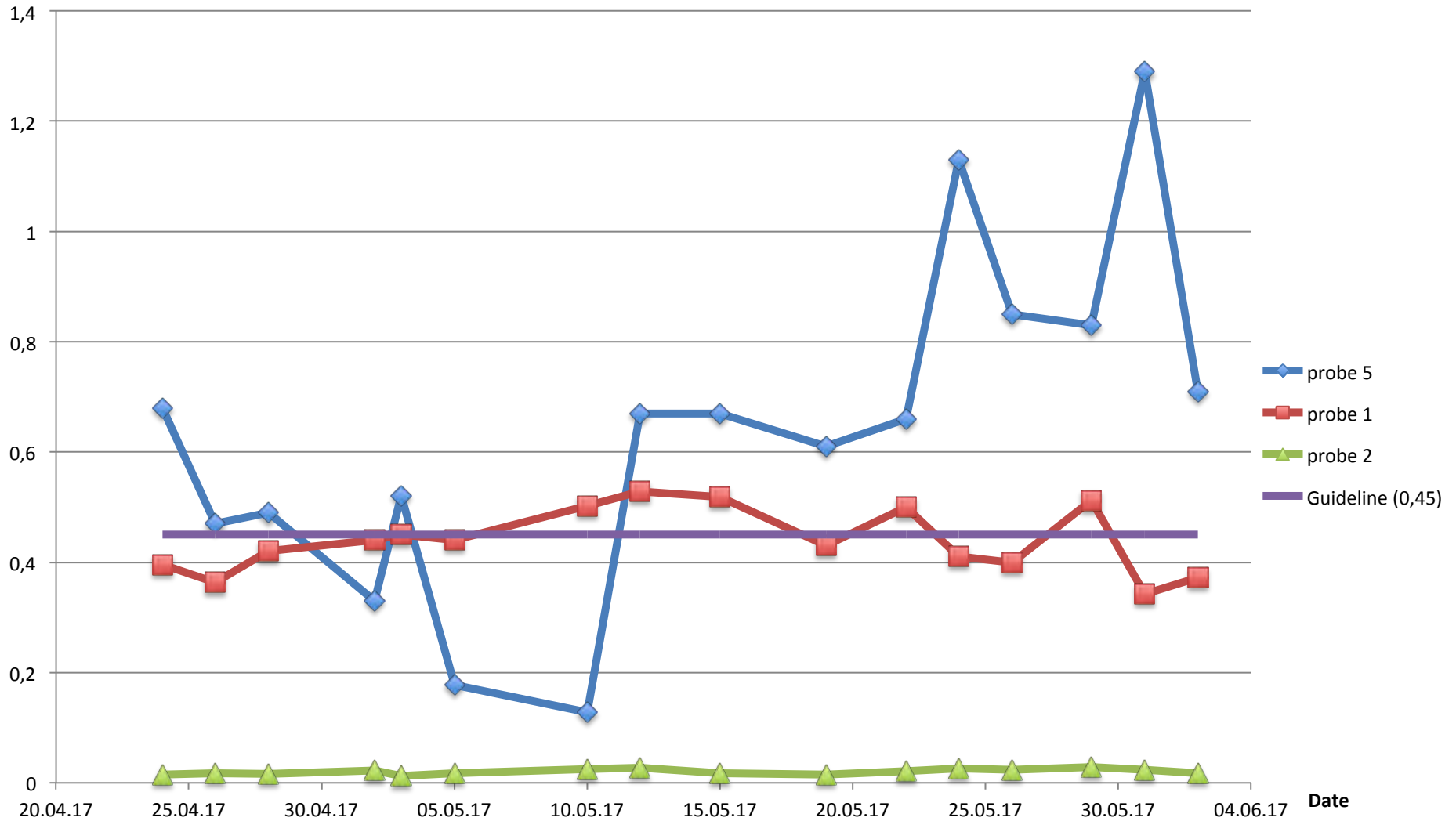




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Concentration, mg/l

Manganese, g/l

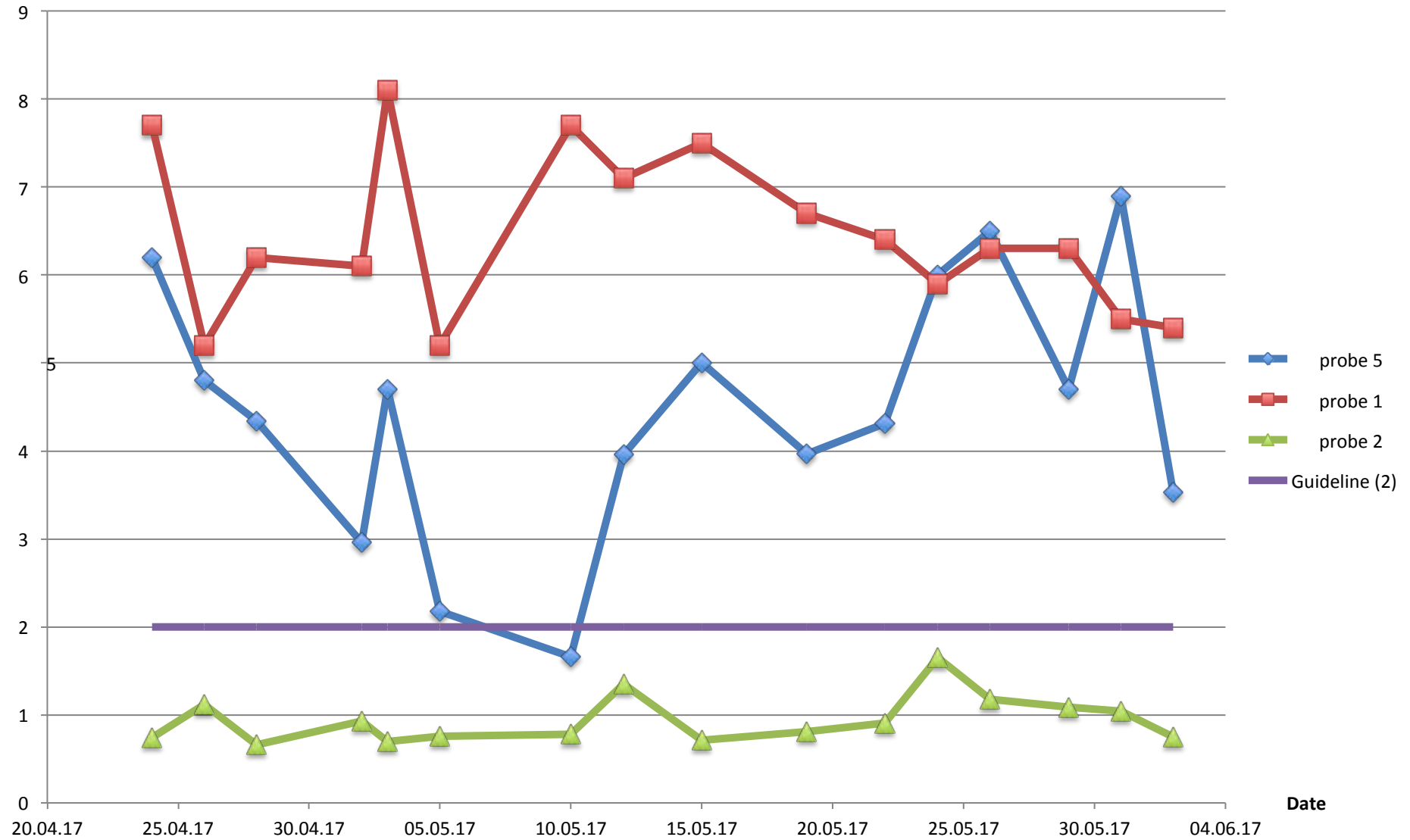




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Concentration, mg/l

Iron, mg/l

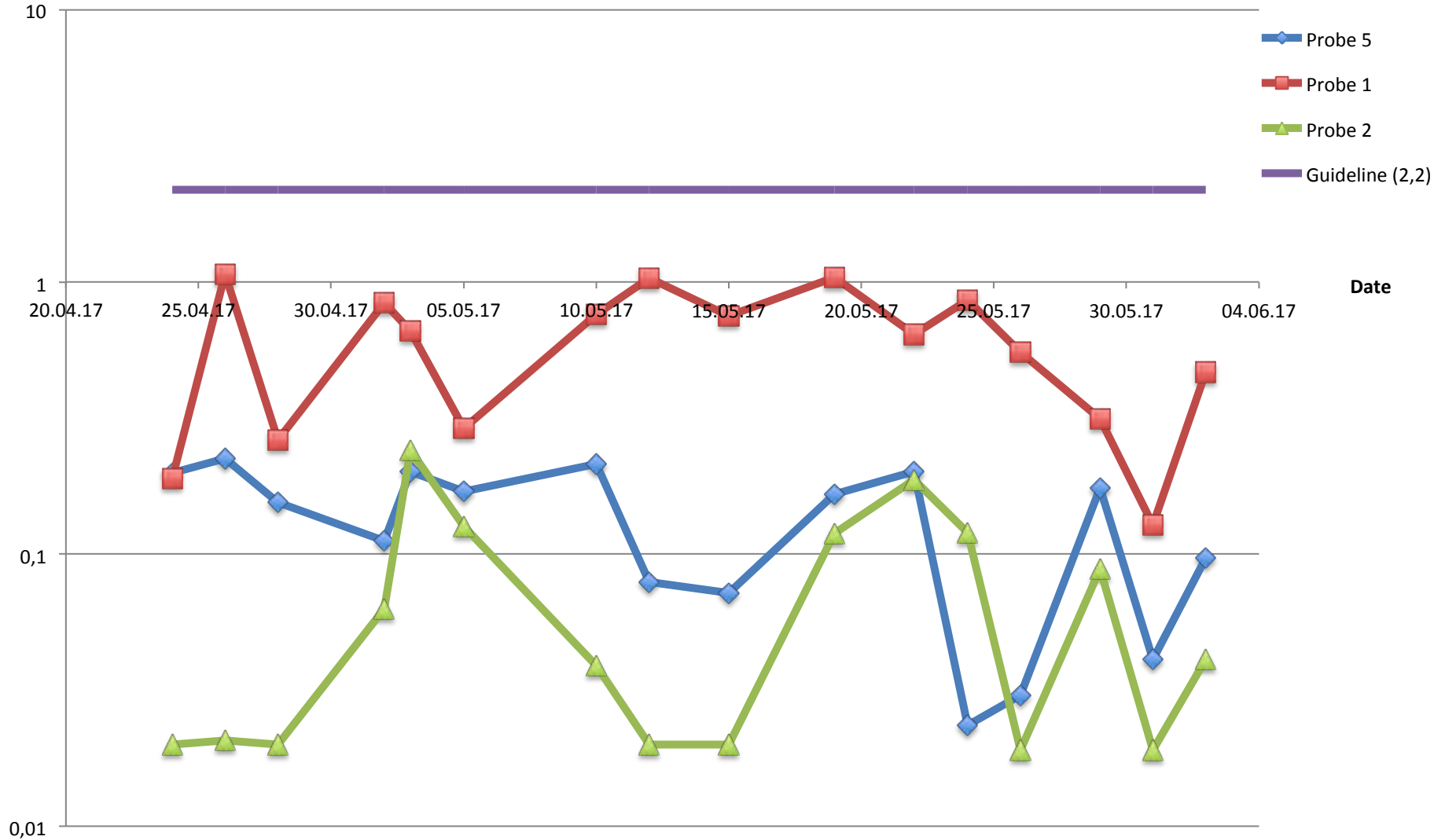




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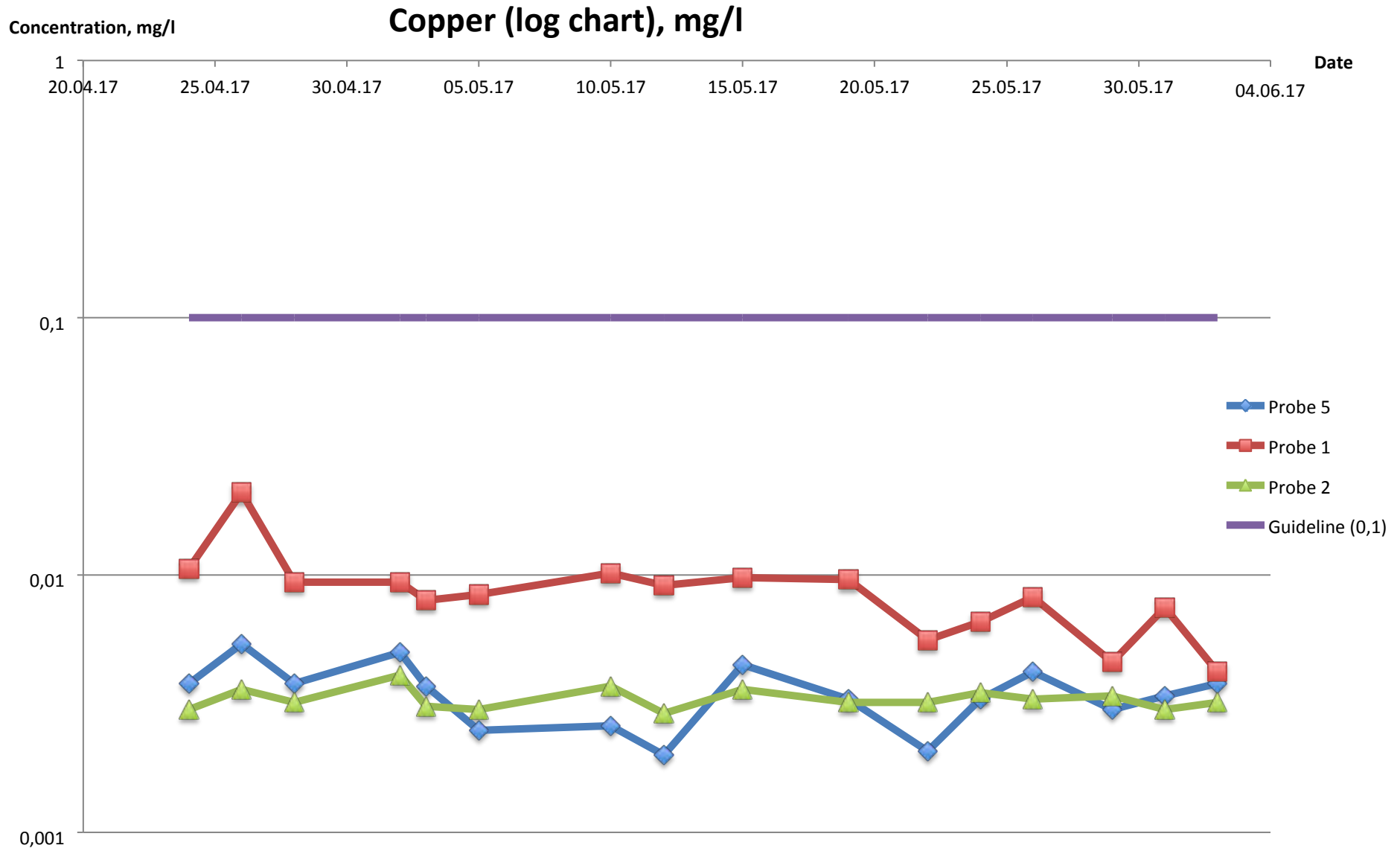
Aluminum (log chart), mg/l

Concentration, mg/l





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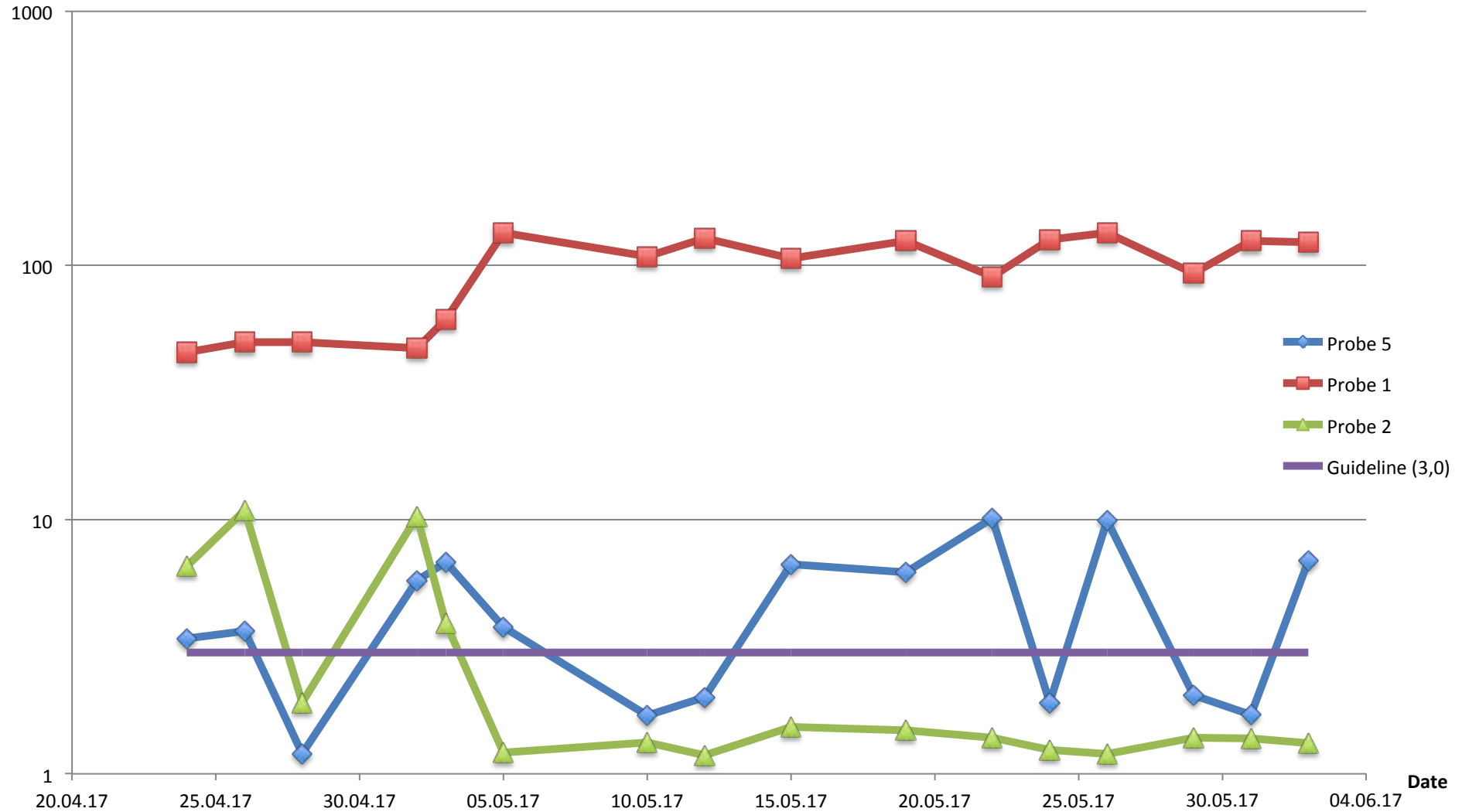




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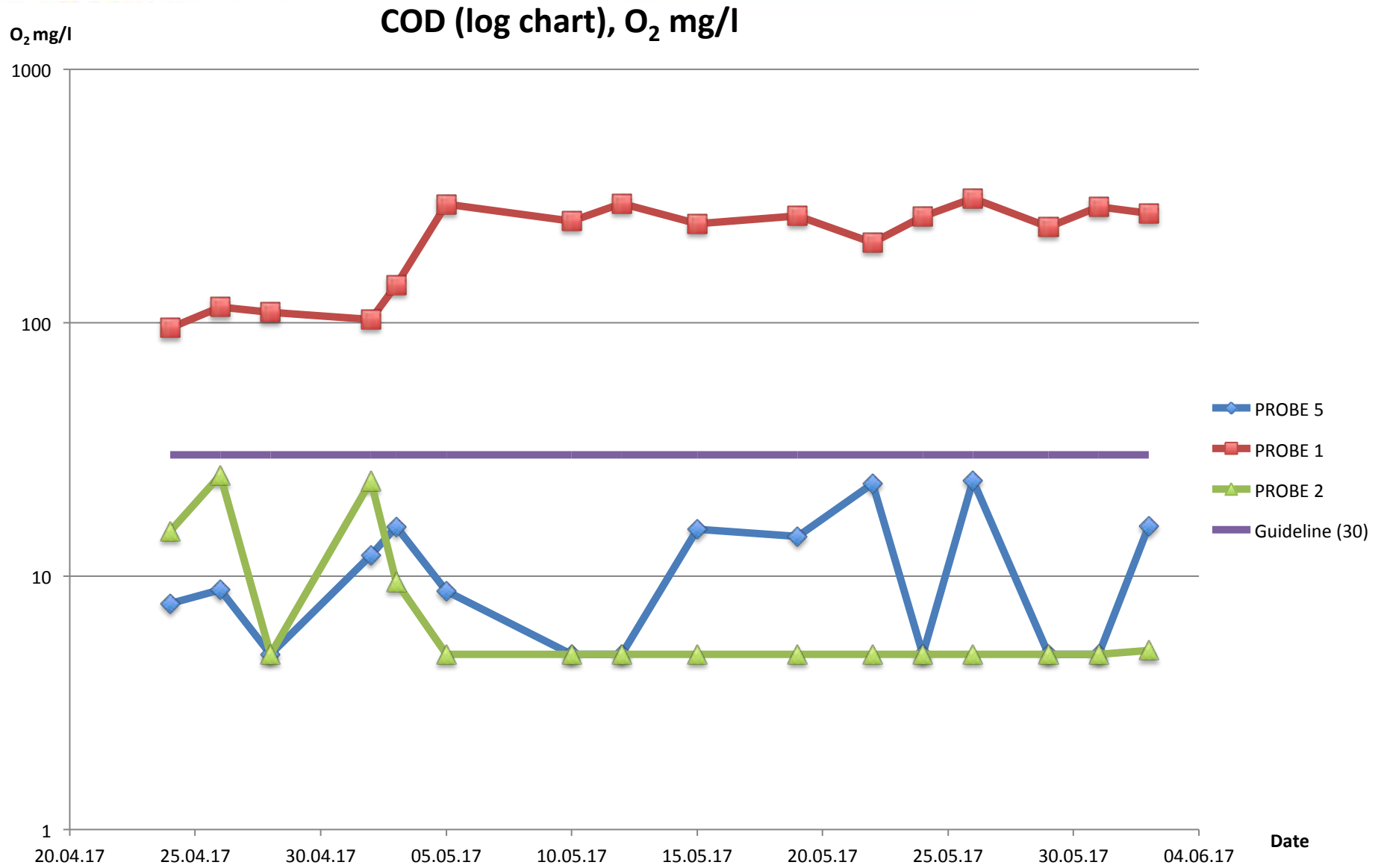
BOD₅ (log chart), mg/l

Concentration, mg/l





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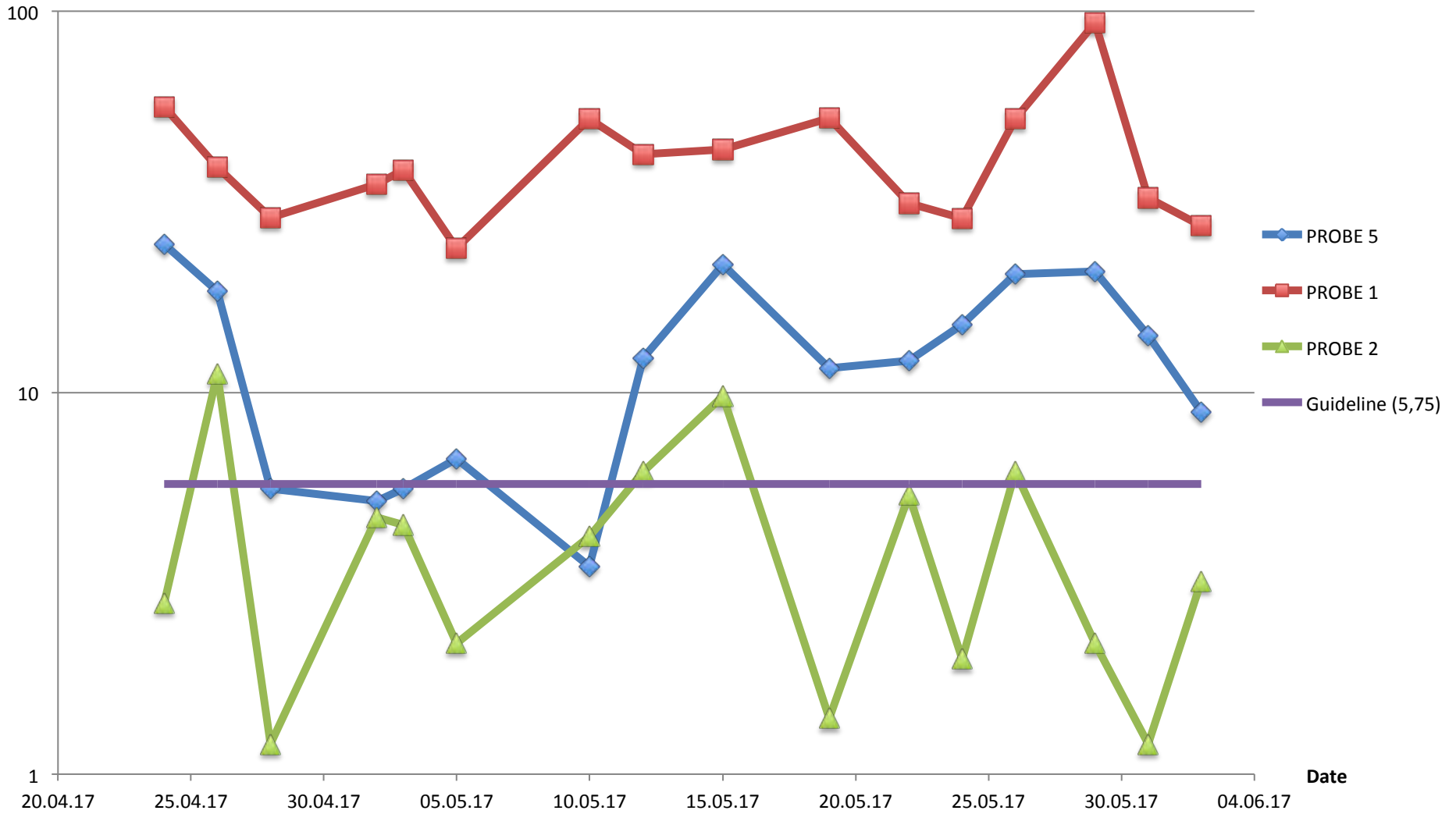




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suspended substances (log chart), mg/l

Concentration mg/l

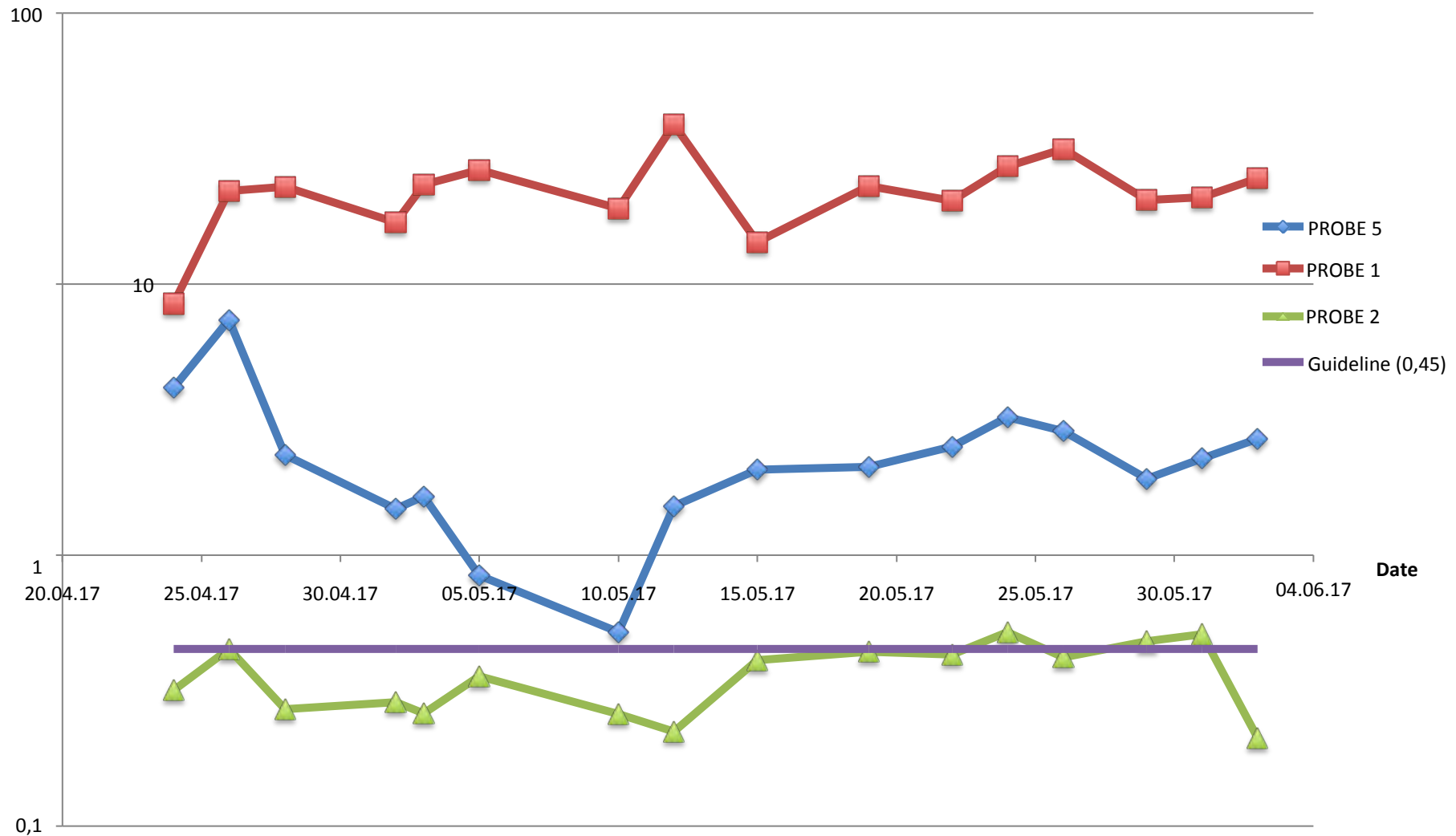




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Ammoniacal Nitrogen (log chart), mg/l

Concentration mg/l

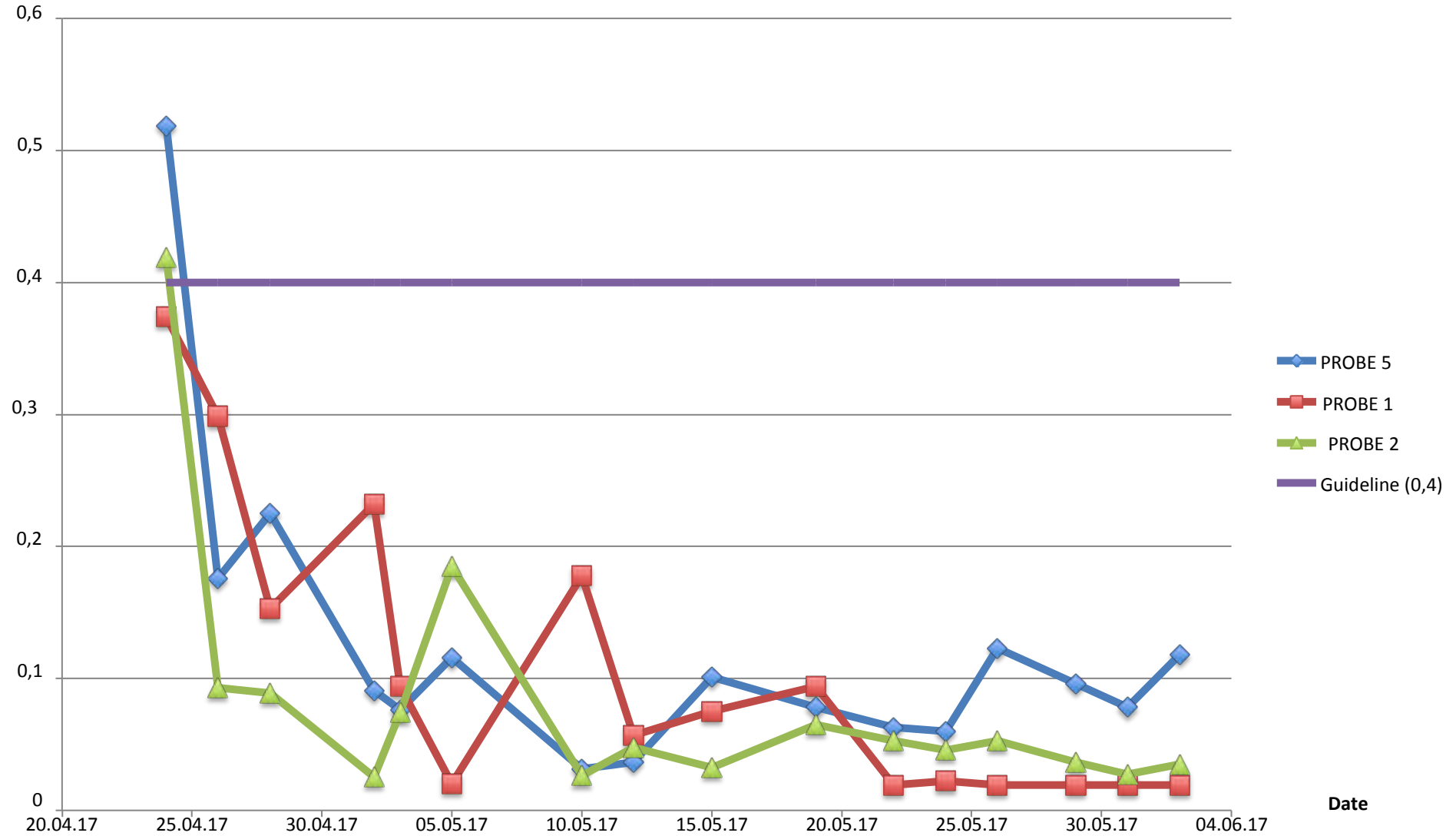




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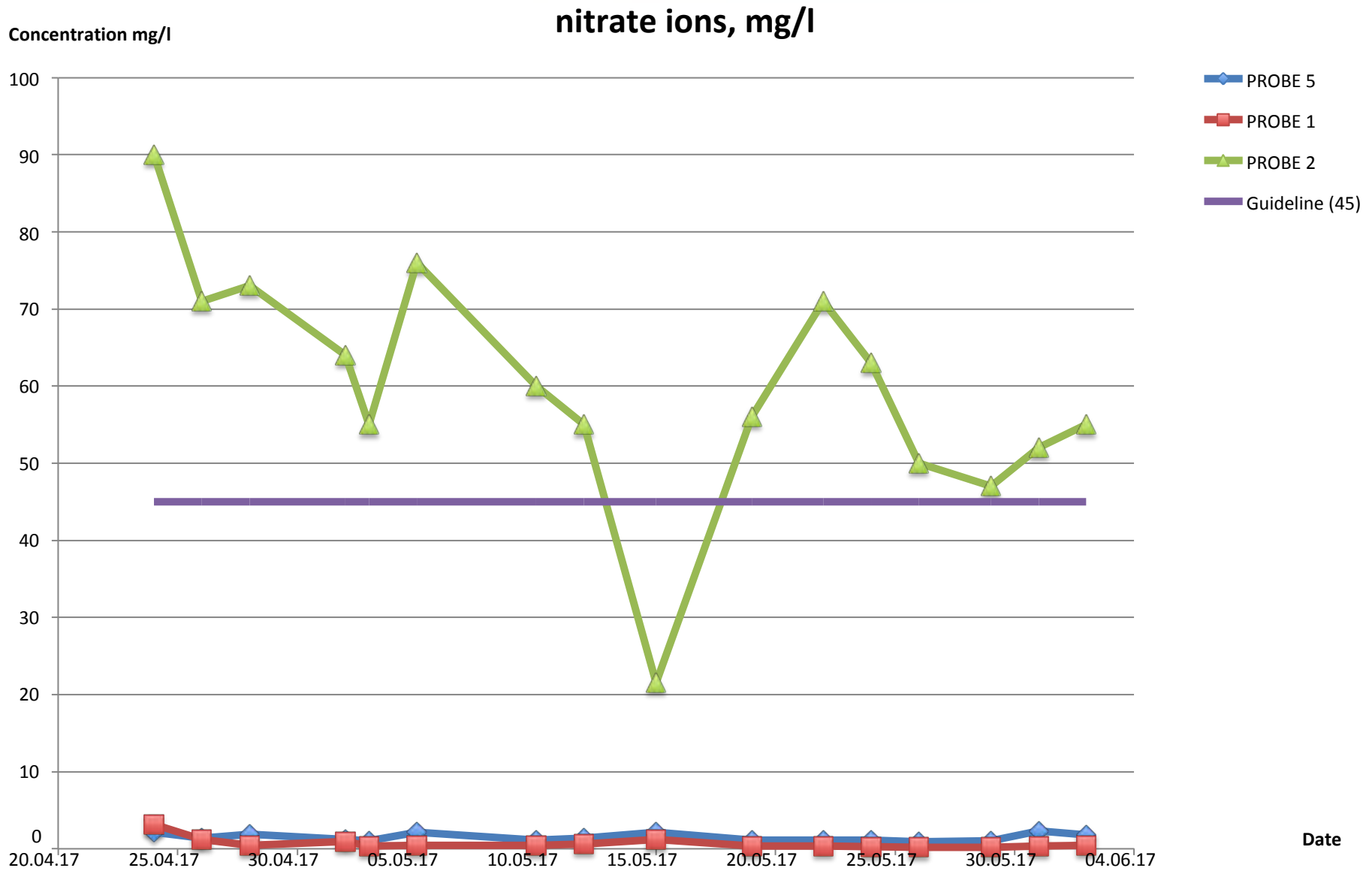
Nitrite Ion, mg/l

Concentration mg/l





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Probes set no.

Manganese

| Date | PROBE 5 | PROBE 1 | PROBE 4 | PROBE 3 | PROBE 2 | level of waste removal | Guideline limit | Exceed |
|--------------------|---------|---------|---------|---------|---------|------------------------|-----------------|-----------|
| 1 24.04.17 | 0,68 | 0,396 | 0,154 | 0,0256 | 0,0149 | 96% | 0,45 | no exceed |
| 2 26.04.17 | 0,47 | 0,363 | 0,102 | 0,0428 | 0,0169 | 95% | 0,45 | no exceed |
| 3 28.04.17 | 0,49 | 0,42 | 0,124 | 0,0454 | 0,0159 | 96% | 0,45 | no exceed |
| 4 02.05.17 | 0,33 | 0,44 | 0,13 | 0,0487 | 0,0228 | 95% | 0,45 | no exceed |
| 5 03.05.17 | 0,521 | 0,45 | 0,082 | 0,09 | 0,0125 | 97% | 0,45 | no exceed |
| 6 05.05.17 | 0,177 | 0,44 | 0,109 | 0,1 | 0,0171 | 96% | 0,45 | no exceed |
| 7 10.05.17 | 0,128 | 0,502 | 0,74 | 0,096 | 0,0244 | 95% | 0,45 | no exceed |
| 8 12.05.17 | 0,67 | 0,528 | 0,161 | 0,055 | 0,0272 | 95% | 0,45 | no exceed |
| 9 15.05.17 | 0,67 | 0,518 | 0,23 | 0,057 | 0,0171 | 97% | 0,45 | no exceed |
| 10 19.05.17 | 0,61 | 0,43 | 0,165 | 0,0358 | 0,0145 | 97% | 0,45 | no exceed |
| 11 22.05.17 | 0,66 | 0,5 | 0,208 | 0,04 | 0,0206 | 96% | 0,45 | no exceed |
| 12 24.05.17 | 1,13 | 0,41 | 0,0366 | 0,0475 | 0,0256 | 94% | 0,45 | no exceed |
| 13 26.05.17 | 0,85 | 0,4 | 0,134 | 0,0474 | 0,0236 | 94% | 0,45 | no exceed |
| 14 29.05.17 | 0,83 | 0,512 | 0,354 | 0,0448 | 0,0289 | 94% | 0,45 | no exceed |
| 15 31.05.17 | 1,29 | 0,342 | 0,225 | 0,16 | 0,0231 | 93% | 0,45 | no exceed |
| 16 02.06.17 | 0,71 | 0,372 | 0,2 | 0,0301 | 0,0176 | 95% | 0,45 | no exceed |



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Probes set no.

Iron

| | Date | PROBE 5 | PROBE 1 | PROBE 4 | PROBE 3 | PROBE 2 | level of waste removal | Guideline limit | Exceed |
|----|-----------------|------------|------------|------------|------------|------------|------------------------------|--------------------|-----------|
| 1 | 24.04.17 | 6,2 | 7,7 | 4,6 | 1,37 | 0,74 | 90% | 2 | no exceed |
| 2 | 26.04.17 | 4,8 | 5,2 | 3,78 | 1,73 | 1,12 | 78% | 2 | no exceed |
| 3 | 28.04.17 | 4,34 | 6,2 | 3,63 | 1,59 | 0,66 | 89% | 2 | no exceed |
| 4 | 02.05.17 | 2,96 | 6,1 | 3,53 | 1,19 | 0,93 | 85% | 2 | no exceed |
| 5 | 03.05.17 | 4,7 | 8,1 | 2,17 | 1,8 | 0,7 | 91% | 2 | no exceed |
| 6 | 05.05.17 | 2,18 | 5,2 | 2,46 | 1,62 | 0,76 | 85% | 2 | no exceed |
| 7 | 10.05.17 | 1,66 | 7,7 | 15,5 | 2,42 | 0,78 | 90% | 2 | no exceed |
| 8 | 12.05.17 | 3,96 | 7,1 | 3,26 | 1,52 | 1,35 | 81% | 2 | no exceed |
| 9 | 15.05.17 | 5 | 7,5 | 3,6 | 1,09 | 0,71 | 91% | 2 | no exceed |
| 10 | 19.05.17 | 3,97 | 6,7 | 2,32 | 0,98 | 0,81 | 88% | 2 | no exceed |
| 11 | 22.05.17 | 4,31 | 6,4 | 3,2 | 1,11 | 0,91 | 86% | 2 | no exceed |
| 12 | 24.05.17 | 6 | 5,9 | 1,46 | 1,34 | 1,65 | 72% | 2 | no exceed |
| 13 | 26.05.17 | 6,5 | 6,3 | 2,62 | 1,62 | 1,18 | 81% | 2 | no exceed |
| 14 | 29.05.17 | 4,7 | 6,3 | 4,01 | 1,12 | 1,09 | 83% | 2 | no exceed |
| 15 | 31.05.17 | 6,9 | 5,5 | 3,17 | 2,61 | 1,04 | 81% | 2 | no exceed |
| 16 | 02.06.17 | 3,53 | 5,4 | 2,71 | 1,02 | 0,75 | 86% | 2 | no exceed |



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Probes set no.

Aluminum

| | Date | PROBE 5 | PROBE 1 | PROBE 4 | PROBE 3 | PROBE 2 | level of waste removal | Guideline limit | Exceed |
|----|-----------------|------------|------------|------------|------------|------------|------------------------------|--------------------|-----------|
| 1 | 24.04.17 | 0,199 | 0,19 | 0,462 | 0,043 | 0,02 | 89% | 2,2 | no exceed |
| 2 | 26.04.17 | 0,225 | 1,07 | 0,284 | 0,108 | 0,0207 | 98% | 2,2 | no exceed |
| 3 | 28.04.17 | 0,155 | 0,262 | 0,334 | 0,182 | 0,02 | 92% | 2,2 | no exceed |
| 4 | 02.05.17 | 0,112 | 0,84 | 0,261 | 0,079 | 0,063 | 93% | 2,2 | no exceed |
| 5 | 03.05.17 | 0,201 | 0,66 | 0,126 | 0,152 | 0,24 | 64% | 2,2 | no exceed |
| 6 | 05.05.17 | 0,17 | 0,29 | 0,148 | 0,17 | 0,126 | 57% | 2,2 | no exceed |
| 7 | 10.05.17 | 0,214 | 0,76 | 1,51 | 0,218 | 0,039 | 95% | 2,2 | no exceed |
| 8 | 12.05.17 | 0,079 | 1,03 | 0,414 | 0,117 | 0,02 | 98% | 2,2 | no exceed |
| 9 | 15.05.17 | 0,072 | 0,75 | 0,4 | 0,076 | 0,02 | 97% | 2,2 | no exceed |
| 10 | 19.05.17 | 0,166 | 1,04 | 0,097 | 0,224 | 0,119 | 89% | 2,2 | no exceed |
| 11 | 22.05.17 | 0,201 | 0,64 | 0,25 | 0,161 | 0,188 | 71% | 2,2 | no exceed |
| 12 | 24.05.17 | 0,0235 | 0,86 | 0,019 | 0,019 | 0,12 | 86% | 2,2 | no exceed |
| 13 | 26.05.17 | 0,0304 | 0,552 | 0,019 | 0,019 | 0,019 | 97% | 2,2 | no exceed |
| 14 | 29.05.17 | 0,175 | 0,314 | 0,244 | 0,121 | 0,088 | 72% | 2,2 | no exceed |
| 15 | 31.05.17 | 0,041 | 0,128 | 0,0317 | 0,019 | 0,019 | 85% | 2,2 | no exceed |
| 16 | 02.06.17 | 0,097 | 0,466 | 0,177 | 0,156 | 0,041 | 91% | 2,2 | no exceed |



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Probes set no.

Copper

| Date | PROBE 5 | PROBE 1 | PROBE 4 | PROBE 3 | PROBE 2 | level of waste removal | Guideline limit | Exceed |
|-----------------|---------|---------|---------|---------|---------|------------------------|-----------------|-----------|
| 24.04.17 | 0,0038 | 0,0106 | 0,0114 | 0,004 | 0,003 | 72% | 0,1 | no exceed |
| 26.04.17 | 0,0054 | 0,021 | 0,0086 | 0,0057 | 0,0036 | 83% | 0,1 | no exceed |
| 28.04.17 | 0,0038 | 0,0094 | 0,0078 | 0,0046 | 0,0032 | 66% | 0,1 | no exceed |
| 02.05.17 | 0,005 | 0,0094 | 0,0074 | 0,004 | 0,0041 | 56% | 0,1 | no exceed |
| 03.05.17 | 0,0037 | 0,008 | 0,0058 | 0,006 | 0,0031 | 61% | 0,1 | no exceed |
| 05.05.17 | 0,0025 | 0,0084 | 0,007 | 0,005 | 0,003 | 64% | 0,1 | no exceed |
| 10.05.17 | 0,0026 | 0,0102 | 0,0391 | 0,007 | 0,0037 | 64% | 0,1 | no exceed |
| 12.05.17 | 0,002 | 0,0091 | 0,0059 | 0,0038 | 0,0029 | 68% | 0,1 | no exceed |
| 15.05.17 | 0,0045 | 0,0098 | 0,0097 | 0,0051 | 0,0036 | 63% | 0,1 | no exceed |
| 19.05.17 | 0,0033 | 0,0096 | 0,0056 | 0,0043 | 0,0032 | 67% | 0,1 | no exceed |
| 22.05.17 | 0,00207 | 0,0056 | 0,0061 | 0,004 | 0,0032 | 43% | 0,1 | no exceed |
| 24.05.17 | 0,0033 | 0,0066 | 0,0052 | 0,0047 | 0,0035 | 47% | 0,1 | no exceed |
| 26.05.17 | 0,0042 | 0,0082 | 0,0053 | 0,0045 | 0,0033 | 60% | 0,1 | no exceed |
| 29.05.17 | 0,003 | 0,0046 | 0,0067 | 0,0038 | 0,0034 | 26% | 0,1 | no exceed |
| 31.05.17 | 0,0034 | 0,0075 | 0,0051 | 0,0046 | 0,003 | 60% | 0,1 | no exceed |
| 02.06.17 | 0,0038 | 0,0042 | 0,0047 | 0,0028 | 0,0032 | 24% | 0,1 | no exceed |



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Probes set no.

BOD5

| | Date | PROBE 5 | PROBE 1 | PROBE 4 | PROBE 3 | PROBE 2 | level of waste removal | Guideline limit | Exceed |
|----|-----------------|---------|---------|---------|---------|---------|------------------------|-----------------|-----------|
| 1 | 24.04.17 | 3,41 | 45,5 | 10,4 | 2,94 | 6,55 | 86% | 3 | 3,55 |
| 2 | 26.04.17 | 3,65 | 49,8 | 7,41 | 4,4 | 10,9 | 78% | 3 | 7,9 |
| 3 | 28.04.17 | 1,2 | 49,9 | 4,9 | 1,72 | 1,9 | 96% | 3 | no exceed |
| 4 | 02.05.17 | 5,76 | 47,1 | 9 | 4,8 | 10,3 | 78% | 3 | 7,3 |
| 5 | 03.05.17 | 6,8 | 61,5 | 9,4 | 6,15 | 3,9 | 94% | 3 | 0,9 |
| 6 | 05.05.17 | 3,78 | 134 | 2,4 | 1,47 | 1,21 | 99% | 3 | no exceed |
| 7 | 10.05.17 | 1,7 | 108,6 | 31,2 | 6,22 | 1,33 | 99% | 3 | no exceed |
| 8 | 12.05.17 | 2 | 128 | 1,71 | 1,42 | 1,18 | 99% | 3 | no exceed |
| 9 | 15.05.17 | 6,66 | 106,5 | 3,64 | 1,71 | 1,53 | 99% | 3 | no exceed |
| 10 | 19.05.17 | 6,21 | 125 | 4 | 1,83 | 1,48 | 99% | 3 | no exceed |
| 11 | 22.05.17 | 10,1 | 90 | 6,18 | 2,83 | 1,39 | 98% | 3 | no exceed |
| 12 | 24.05.17 | 1,91 | 126 | 1,54 | 1,48 | 1,24 | 99% | 3 | no exceed |
| 13 | 26.05.17 | 9,9 | 134 | 1,71 | 1,39 | 1,2 | 99% | 3 | no exceed |
| 14 | 29.05.17 | 2,04 | 93 | 4,3 | 1,89 | 1,39 | 99% | 3 | no exceed |
| 15 | 31.05.17 | 1,71 | 125 | 6,1 | 5,99 | 1,38 | 99% | 3 | no exceed |
| 16 | 02.06.17 | 6,89 | 123 | 1,53 | 4,1 | 1,32 | 99% | 3 | no exceed |



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Probes set no.

COD

| Date | PROBE 5 | PROBE 1 | PROBE 4 | PROBE 3 | PROBE 2 | level of waste removal | Guideline limit | Exceed |
|--------------------|---------|---------|---------|---------|---------|------------------------|-----------------|-----------|
| 1 24.04.17 | 7,8 | 95 | 24,8 | 7,1 | 15 | 84% | 30 | no exceed |
| 2 26.04.17 | 8,8 | 115 | 17,8 | 10,7 | 25 | 78% | 30 | no exceed |
| 3 28.04.17 | 4,9 | 110 | 11,2 | 4,9 | 4,9 | 96% | 30 | no exceed |
| 4 02.05.17 | 12,1 | 103 | 20,7 | 8,9 | 23,7 | 77% | 30 | no exceed |
| 5 03.05.17 | 15,7 | 141 | 19,9 | 13,5 | 9,5 | 93% | 30 | no exceed |
| 6 05.05.17 | 8,7 | 294 | 5,5 | 4,9 | 4,9 | 98% | 30 | no exceed |
| 7 10.05.17 | 4,9 | 251 | 66 | 13,6 | 4,9 | 98% | 30 | no exceed |
| 8 12.05.17 | 4,9 | 295 | 4,9 | 4,9 | 4,9 | 98% | 30 | no exceed |
| 9 15.05.17 | 15,3 | 245 | 8,7 | 4,9 | 4,9 | 98% | 30 | no exceed |
| 10 19.05.17 | 14,3 | 263 | 9,6 | 4,9 | 4,9 | 98% | 30 | no exceed |
| 11 22.05.17 | 23,2 | 207 | 14,8 | 6,2 | 4,9 | 98% | 30 | no exceed |
| 12 24.05.17 | 4,9 | 262 | 4,9 | 4,9 | 4,9 | 98% | 30 | no exceed |
| 13 26.05.17 | 23,8 | 309 | 4,9 | 4,9 | 4,9 | 98% | 30 | no exceed |
| 14 29.05.17 | 4,9 | 238 | 11,4 | 4,9 | 4,9 | 98% | 30 | no exceed |
| 15 31.05.17 | 4,9 | 287 | 13,4 | 13,2 | 4,9 | 98% | 30 | no exceed |
| 16 02.06.17 | 15,8 | 270 | 4,9 | 9,5 | 5,1 | 98% | 30 | no exceed |



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Probes set no.

suspended substances

| Date | PROBE 5 | PROBE 1 | PROBE 4 | PROBE 3 | PROBE 2 | level of waste removal | Guideline limit | Exceed |
|-------------|---------|---------|---------|---------|---------|------------------------|-----------------|-----------|
| 1 24.04.17 | 24,5 | 56,2 | 19,1 | 5,4 | 2,8 | 95% | 5,75 | no exceed |
| 2 26.04.17 | 18,4 | 38,9 | 15,3 | 7,6 | 11,2 | 71% | 5,75 | 5,45 |
| 3 28.04.17 | 5,6 | 28,7 | 15,3 | 8,4 | 1,2 | 96% | 5,75 | no exceed |
| 4 02.05.17 | 5,2 | 35,1 | 16,1 | 7,5 | 4,7 | 87% | 5,75 | no exceed |
| 5 03.05.17 | 5,6 | 38,4 | 15,8 | 4,7 | 4,5 | 88% | 5,75 | no exceed |
| 6 05.05.17 | 6,7 | 23,9 | 8,3 | 3,4 | 2,2 | 91% | 5,75 | no exceed |
| 7 10.05.17 | 3,5 | 52,1 | 47,5 | 13,4 | 4,2 | 92% | 5,75 | no exceed |
| 8 12.05.17 | 12,3 | 42,1 | 28,6 | 3,1 | 6,2 | 85% | 5,75 | 0,45 |
| 9 15.05.17 | 21,6 | 43,4 | 45,1 | 15,6 | 9,8 | 77% | 5,75 | 4,05 |
| 10 19.05.17 | 11,6 | 52,3 | 26,1 | 1,8 | 1,4 | 97% | 5,75 | no exceed |
| 11 22.05.17 | 12,1 | 31,3 | 20,4 | 22,6 | 5,4 | 83% | 5,75 | no exceed |
| 12 24.05.17 | 15,1 | 28,6 | 2,9 | 3,7 | 2 | 93% | 5,75 | no exceed |
| 13 26.05.17 | 20,4 | 52,1 | 12,2 | 13,3 | 6,2 | 88% | 5,75 | 0,45 |
| 14 29.05.17 | 20,8 | 93 | 11,2 | 5,6 | 2,2 | 98% | 5,75 | no exceed |
| 15 31.05.17 | 14,1 | 32,4 | 12,5 | 4,8 | 1,2 | 96% | 5,75 | no exceed |
| 16 02.06.17 | 8,9 | 27,4 | 14,3 | 3,7 | 3,2 | 88% | 5,75 | no exceed |



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Probes set no.

pH

| Date | PROBE 5 | PROBE 1 | PROBE 4 | PROBE 3 | PROBE 2 | level of waste removal | Guideline limit | Exceed |
|-----------------|---------|---------|---------|---------|---------|------------------------|-----------------|-----------|
| 24.04.17 | 7,11 | 7,3 | 7,37 | 7,34 | 6,97 | 5% | 8 | no exceed |
| 26.04.17 | 7,25 | 7,67 | 7,41 | 7,58 | 7,05 | 8% | 8 | no exceed |
| 28.04.17 | 7,25 | 7,25 | 7,39 | 7,36 | 7,15 | 1% | 8 | no exceed |
| 02.05.17 | 7,43 | 7,16 | 7,57 | 7,5 | 7,23 | -1% | 8 | no exceed |
| 03.05.17 | 7,16 | 7,17 | 7,41 | 7,36 | 7,18 | 0% | 8 | no exceed |
| 05.05.17 | 7,44 | 7,34 | 7,49 | 7,44 | 7,34 | 0% | 8 | no exceed |
| 10.05.17 | 7,28 | 7,29 | 7,41 | 7,47 | 7,27 | 0% | 8 | no exceed |
| 12.05.17 | 7,34 | 7,19 | 7,46 | 7,4 | 7,18 | 0% | 8 | no exceed |
| 15.05.17 | 7,31 | 7,27 | 7,5 | 7,44 | 7,24 | 0% | 8 | no exceed |
| 19.05.17 | 7,28 | 7,31 | 7,4 | 7,4 | 7,31 | 0% | 8 | no exceed |
| 22.05.17 | 7,61 | 7,16 | 7,56 | 7,52 | 7,19 | 0% | 8 | no exceed |
| 24.05.17 | 7,44 | 7,28 | 7,6 | 7,48 | 7,25 | 0% | 8 | no exceed |
| 26.05.17 | 7,5 | 7,29 | 7,72 | 7,64 | 7,37 | -1% | 8 | no exceed |
| 29.05.17 | 7,36 | 7,11 | 7,63 | 7,54 | 7,29 | -3% | 8 | no exceed |
| 31.05.17 | 7,4 | 7,23 | 7,698 | 7,59 | 7,36 | -2% | 8 | no exceed |
| 02.06.17 | 7,43 | 7,3 | 7,71 | 7,68 | 7,4 | -1% | 8 | no exceed |



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Probes set no.

Ammoniacal Nitrogen

| Date | PROBE 5 | PROBE 1 | PROBE 4 | PROBE 3 | PROBE 2 | level of waste removal | Guideline limit | Exceed |
|----------|---------|---------|---------|---------|---------|------------------------|-----------------|-----------|
| 24.04.17 | 4,14 | 8,5 | 0,47 | 0,49 | 0,317 | 96% | 0,45 | no exceed |
| 26.04.17 | 7,39 | 22,1 | 0,83 | 0,71 | 0,45 | 98% | 0,45 | no exceed |
| 28.04.17 | 2,34 | 22,9 | 0,84 | 0,93 | 0,27 | 99% | 0,45 | no exceed |
| 02.05.17 | 1,48 | 16,9 | 0,56 | 0,43 | 0,287 | 98% | 0,45 | no exceed |
| 03.05.17 | 1,65 | 23,3 | 0,56 | 0,58 | 0,261 | 99% | 0,45 | no exceed |
| 05.05.17 | 0,84 | 26,4 | 1,27 | 0,99 | 0,358 | 99% | 0,45 | no exceed |
| 10.05.17 | 0,52 | 19,1 | 0,45 | 0,362 | 0,259 | 99% | 0,45 | no exceed |
| 12.05.17 | 1,52 | 38,8 | 0,69 | 0,62 | 0,223 | 99% | 0,45 | no exceed |
| 15.05.17 | 2,07 | 14,3 | 0,6 | 0,57 | 0,41 | 97% | 0,45 | no exceed |
| 19.05.17 | 2,12 | 23 | 0,73 | 0,72 | 0,44 | 98% | 0,45 | no exceed |
| 22.05.17 | 2,52 | 20,3 | 0,48 | 0,52 | 0,43 | 98% | 0,45 | no exceed |
| 24.05.17 | 3,24 | 27,3 | 0,68 | 0,71 | 0,52 | 98% | 0,45 | 0,07 |
| 26.05.17 | 2,87 | 31,5 | 0,63 | 0,59 | 0,42 | 99% | 0,45 | no exceed |
| 29.05.17 | 1,91 | 20,4 | 0,55 | 0,52 | 0,48 | 98% | 0,45 | 0,03 |
| 31.05.17 | 2,27 | 20,9 | 0,69 | 0,66 | 0,51 | 98% | 0,45 | 0,06 |
| 02.06.17 | 2,69 | 24,6 | 0,326 | 0,358 | 0,212 | 99% | 0,45 | no exceed |



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Probes set no.

Nitrate ion

| Date | PROBE 5 | PROBE 1 | PROBE 4 | PROBE 3 | PROBE 2 | level of waste removal | Guideline limit | Exceed |
|-------------|---------|---------|---------|---------|---------|------------------------|-----------------|-----------|
| 1 24.04.17 | 2,17 | 3,18 | 90 | 88 | 90 | -2730% | 45 | 45 |
| 2 26.04.17 | 1,38 | 1,22 | 73 | 76 | 71 | -5720% | 45 | 26 |
| 3 28.04.17 | 1,89 | 0,43 | 59 | 62 | 73 | -16877% | 45 | 28 |
| 4 02.05.17 | 1,24 | 0,93 | 51 | 44,5 | 64 | -6782% | 45 | 19 |
| 5 03.05.17 | 1,04 | 0,35 | 52 | 57 | 55 | -15614% | 45 | 10 |
| 6 05.05.17 | 2,18 | 0,42 | 65 | 58 | 76 | -17995% | 45 | 31 |
| 7 10.05.17 | 1,16 | 0,44 | 63 | 57 | 60 | -13536% | 45 | 15 |
| 8 12.05.17 | 1,42 | 0,65 | 55 | 62 | 55 | -8362% | 45 | 10 |
| 9 15.05.17 | 2,14 | 1,2 | 22 | 24,6 | 21,5 | -1692% | 45 | no exceed |
| 10 19.05.17 | 1,16 | 0,36 | 58 | 57 | 56 | -15456% | 45 | 11 |
| 11 22.05.17 | 1,16 | 0,35 | 80 | 64 | 71 | -20186% | 45 | 26 |
| 12 24.05.17 | 1,11 | 0,286 | 66 | 64 | 63 | -21928% | 45 | 18 |
| 13 26.05.17 | 0,91 | 0,182 | 51 | 58 | 50 | -27373% | 45 | 5 |
| 14 29.05.17 | 1,01 | 0,176 | 49 | 43,8 | 47 | -26605% | 45 | 2 |
| 15 31.05.17 | 2,29 | 0,35 | 57 | 48 | 52 | -14757% | 45 | 7 |
| 16 02.06.17 | 1,83 | 0,43 | 50 | 52 | 55 | -12691% | 45 | 10 |



We give second life to water!

Probes set no.

Nitrite ion

| | Date | PROBE 5 | PROBE 1 | PROBE 4 | PROBE 3 | PROBE 2 | level of waste removal | Guideline limit | Exceed |
|----|-----------------|---------|---------|---------|---------|---------|------------------------|-----------------|-----------|
| 1 | 24.04.17 | 0,519 | 0,374 | 0,388 | 0,325 | 0,419 | -12% | 0,4 | 0,019 |
| 2 | 26.04.17 | 0,176 | 0,299 | 0,591 | 0,539 | 0,093 | 69% | 0,4 | no exceed |
| 3 | 28.04.17 | 0,225 | 0,153 | 0,87 | 0,85 | 0,089 | 42% | 0,4 | no exceed |
| 4 | 02.05.17 | 0,091 | 0,232 | 0,451 | 0,395 | 0,0251 | 89% | 0,4 | no exceed |
| 5 | 03.05.17 | 0,076 | 0,094 | 0,86 | 0,73 | 0,074 | 21% | 0,4 | no exceed |
| 6 | 05.05.17 | 0,116 | 0,0201 | 1,19 | 1,02 | 0,185 | -820% | 0,4 | no exceed |
| 7 | 10.05.17 | 0,0313 | 0,178 | 0,256 | 0,288 | 0,0263 | 85% | 0,4 | no exceed |
| 8 | 12.05.17 | 0,0363 | 0,057 | 0,8 | 0,65 | 0,0476 | 16% | 0,4 | no exceed |
| 9 | 15.05.17 | 0,101 | 0,075 | 0,343 | 0,259 | 0,0325 | 57% | 0,4 | no exceed |
| 10 | 19.05.17 | 0,078 | 0,094 | 0,8 | 0,78 | 0,065 | 31% | 0,4 | no exceed |
| 11 | 22.05.17 | 0,063 | 0,019 | 0,305 | 0,304 | 0,053 | -179% | 0,4 | no exceed |
| 12 | 24.05.17 | 0,06 | 0,0225 | 0,41 | 0,353 | 0,0456 | -103% | 0,4 | no exceed |
| 13 | 26.05.17 | 0,123 | 0,019 | 0,43 | 0,366 | 0,053 | -179% | 0,4 | no exceed |
| 14 | 29.05.17 | 0,096 | 0,019 | 0,357 | 0,344 | 0,0363 | -91% | 0,4 | no exceed |
| 15 | 31.05.17 | 0,078 | 0,019 | 0,218 | 0,211 | 0,0276 | -45% | 0,4 | no exceed |
| 16 | 02.06.17 | 0,118 | 0,019 | 0,164 | 0,164 | 0,0351 | -85% | 0,4 | no exceed |



We give second life to water!

Probes set no.

petroleum products

| Date | PROBE 5 | PROBE 1 | PROBE 4 | PROBE 3 | PROBE 2 | level of waste removal | Guideline limit | Exceed |
|--------------------|---------|---------|---------|---------|---------|------------------------|-----------------|-----------|
| 1 24.04.17 | 0,04 | 0,04 | 0,04 | 0,04 | 0,04 | 0% | 6 | no exceed |
| 2 26.04.17 | 0,04 | 0,04 | 0,04 | 0,04 | 0,04 | 0% | 6 | no exceed |
| 3 28.04.17 | 0,04 | 0,04 | 0,04 | 0,04 | 0,04 | 0% | 6 | no exceed |
| 4 02.05.17 | 0,04 | 0,04 | 0,04 | 0,04 | 0,04 | 0% | 6 | no exceed |
| 5 03.05.17 | 0,04 | 0,04 | 0,04 | 0,04 | 0,04 | 0% | 6 | no exceed |
| 6 05.05.17 | 0,04 | 0,04 | 0,04 | 0,04 | 0,04 | 0% | 6 | no exceed |
| 7 10.05.17 | 0,04 | 0,04 | 0,04 | 0,04 | 0,04 | 0% | 6 | no exceed |
| 8 12.05.17 | 0,04 | 0,04 | 0,04 | 0,04 | 0,04 | 0% | 6 | no exceed |
| 9 15.05.17 | 0,04 | 0,04 | 0,04 | 0,04 | 0,04 | 0% | 6 | no exceed |
| 10 19.05.17 | 0,04 | 0,04 | 0,04 | 0,04 | 0,04 | 0% | 6 | no exceed |
| 11 22.05.17 | 0,04 | 0,04 | 0,04 | 0,04 | 0,04 | 0% | 6 | no exceed |
| 12 24.05.17 | 0,04 | 0,04 | 0,04 | 0,04 | 0,04 | 0% | 6 | no exceed |
| 13 26.05.17 | 0,04 | 0,04 | 0,04 | 0,04 | 0,04 | 0% | 6 | no exceed |
| 14 29.05.17 | 0,04 | 0,04 | 0,04 | 0,04 | 0,04 | 0% | 6 | no exceed |
| 15 31.05.17 | 0,04 | 0,04 | 0,04 | 0,04 | 0,04 | 0% | 6 | no exceed |
| 16 02.06.17 | 0,04 | 0,04 | 0,04 | 0,04 | 0,04 | 0% | 6 | no exceed |



We give second life to water!

Thank you for your attention!

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