

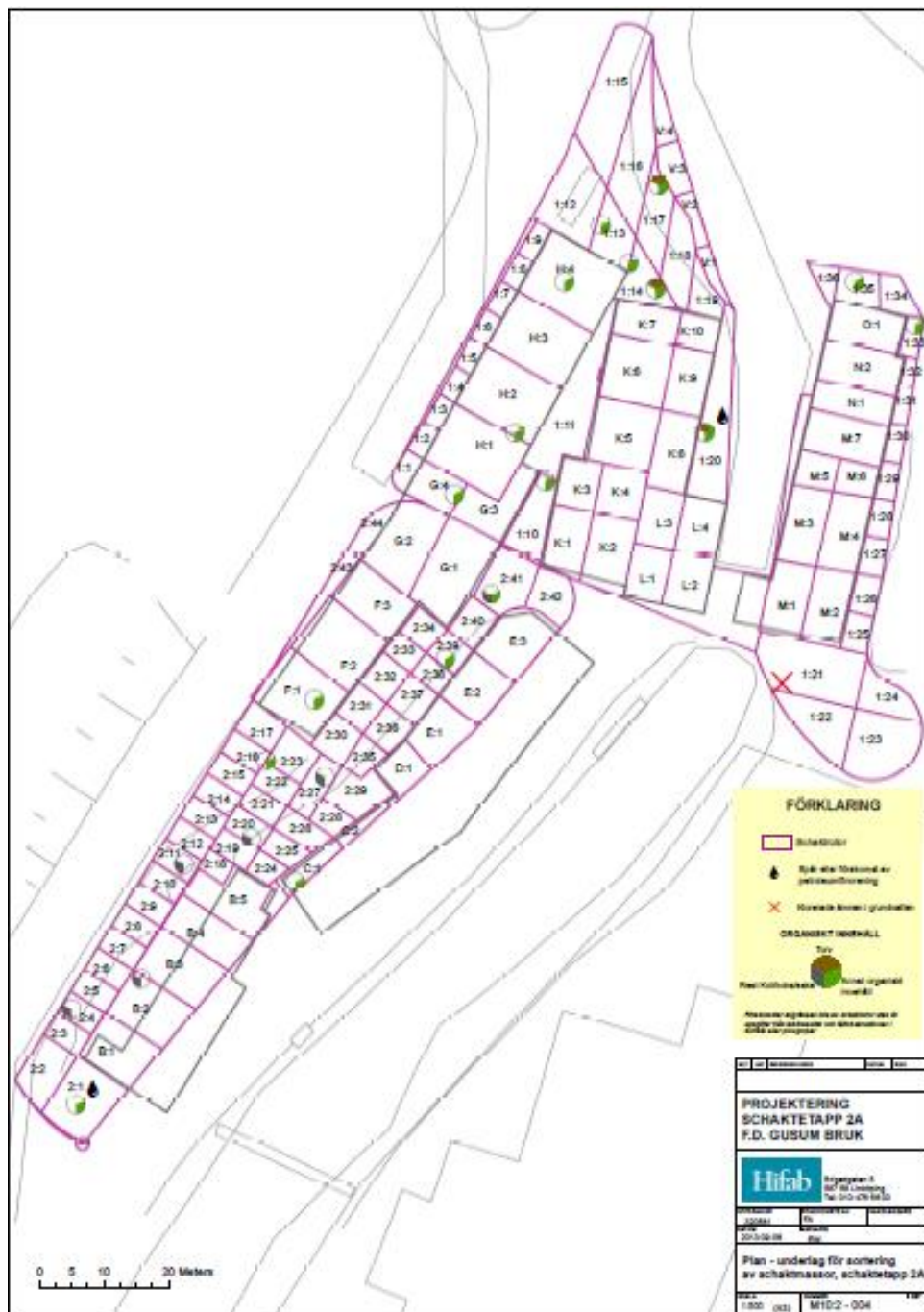
## Bilaga 3 Resultatsammanställning

3a) Analysresultat

3b) XRF-resultat

## Bilaga 3 Resultatsammanställningar

Provbeteckningar i följande sammanställningar utgår från schaktrutor enligt Figur 1. Analysrapporter finns samlade i bilaga



Figur 1 Schaktområde för första etappen på Gusums bruk. Område med olja noterat med en svart droppe. Även andelen organiskt innehåll enligt tidigare undersökningar beskrivet.

### 3.1 Analyserade metallhalter från schaktvägg och slänter.

Beteckningen utgår från rutsystem för schaktplanen.

| Riktvärde  |                        | 25       | 15       | 200      | 400      | 500      | 50*      |
|------------|------------------------|----------|----------|----------|----------|----------|----------|
|            |                        | As       | Cd       | Cu       | Pb       | Zn       | Sn       |
| Datum      | Beteckning             | mg/kg TS | mg/kg TS | mg/kg TS | mg/kg TS | mg/kg TS | mg/kg TS |
| 2013-12-20 | BV4 norr BV4 söder     | 159      | 31,1     | 26400    | 1010     | 35300    | 404      |
| 2013-12-20 | B1:16 norr B1:16 söder | 267      | 52,6     | 14800    | 1110     | 39900    | 103      |
| 2013-12-20 | BV3 söder BV3 norr     | 240      | 62,7     | 48100    | 3230     | 54600    | 89,8     |
| 2013-12-30 | BV1 norr               | 66       | 52,1     | 51300    | 1840     | 45100    | 397      |
| 2013-12-30 | BV1 söder              | 75,2     | 60,7     | 62000    | 3220     | 53900    | 88,3     |
| 2013-12-30 | BV1 norr mjuk sed.     | 75,1     | 57,4     | 38800    | 2780     | 54500    | 37,1     |
| 2013-12-30 | BV1 mitten             | 70,4     | 79,5     | 28200    | 1770     | 40900    | 332      |
| 2013-12-30 | BV2 norr               | 44       | 32,6     | 12400    | 1270     | 17800    | 439      |
| 2013-12-30 | BV2 söder              | 70,3     | 121      | 25000    | 2390     | 44200    | 33,7     |
| 2013-12-30 | BV2 mitten             | 73,6     | 105      | 17400    | 4240     | 28000    | 19,2     |
| 2014-01-23 | a) B H4n/1:13s         | 2,94     | 0,132    | 27,8     | 19,6     | 97,8     | 0,194    |
| 2014-01-23 | f) B H4 -4m            | 1,51     | 0,289    | 49,5     | 18,1     | 191      | 0,239    |
| 2014-01-24 | B1:17 norr             | 2,51     | 0,304    | 48       | 40       | 134      | 3,67     |
| 2014-01-24 | BV3 söder/B1:17 norr   | 1,09     | 0,409    | 43,7     | 26,9     | 133      | 2,57     |
| 2014-01-24 | BG2                    | 0,893    | 0,197    | 44,9     | 9,06     | 309      | 1,31     |
| 2014-01-24 | BG1                    | 1,11     | 0,125    | 42,9     | 6,19     | 77,6     | 1,36     |
| 2014-01-24 | B1:13                  | 4,01     | 0,299    | 52,5     | 56,7     | 160      | 3,72     |
| 2014-01-24 | B1:17 söder            | 4,81     | 1,41     | 196      | 267      | 538      | 1,98     |
| 2014-01-24 | B1:18 söder            | 4,62     | 1,19     | 194      | 272      | 516      | 3,9      |
| 2014-02-05 | BK7                    | 3,41     | 0,165    | 25,1     | 19       | 109      | 2,56     |
| 2014-02-07 | B1:20 N                | 106      | 58,2     | 66000    | 2410     | 23800    | 388      |
| 2014-02-07 | B1:20 S                | 33,3     | 9,54     | 37700    | 935      | 8580     | 1620     |
| 2014-02-07 | BH4 NÖ                 | 2,17     | 0,123    | 31,3     | 22,7     | 85,2     | 4,09     |
| 2014-02-07 | BH4 SO                 | 2,25     | 0,104    | 31,6     | 17,9     | 77,2     | 3,21     |
| 2014-02-07 | B1:14 Ö                | 1,82     | 0,164    | 31,5     | 25,2     | 98,2     | 3,4      |
| 2014-02-11 | BK6/1:11 Lera          | 2,9      | 0,136    | 35,8     | 20,6     | 94,5     |          |
| 2014-02-11 | BK6/1:11 Morän         | 3,31     | 0,972    | 24,3     | 8,23     | 315      |          |
| 2014-02-13 | BK6 SV                 | 3,26     | 0,145    | 27,8     | 21,8     | 89,9     |          |
| 2014-02-25 | BK5 lera               | 3,5      | 0,406    | 59,7     | 24       | 201      |          |
| 2014-02-25 | BK5 morän              | 3,2      | 2,57     | 35,9     | 10,8     | 764      |          |
| 2014-02-25 | BK5 varviglera         | 3,23     | 2,43     | 20,6     | 7,65     | 550      |          |
| 2014-03-03 | BF3                    | 0,892    | 0,117    | 28,6     | 5,29     | 43,5     |          |
| 2014-03-03 | BF3/F2                 | 0,964    | 0,152    | 25,1     | 5,3      | 49,4     |          |
| 2014-03-03 | BH4V                   | 3,03     | 0,13     | 27,8     | 21,9     | 97,1     |          |
| 2014-03-03 | BH3Ö                   | 2,77     | 0,172    | 19,6     | 16,2     | 82,2     |          |
| 2014-03-04 | BG4                    | 1,15     | 0,166    | 25       | 5,45     | 127      |          |
| 2014-03-04 | BH2N                   | 3,36     | 0,17     | 30,8     | 15,6     | 79,7     |          |
| 2014-03-04 | BH25                   | 1,82     | <0.1     | 21,2     | 10,7     | 43,6     |          |
| 2014-03-04 | B2:33/34 B2:38/39      | 0,965    | <0.1     | 20,7     | 5,05     | 65,1     |          |
| 2014-03-04 | BF2                    | 0,763    | <0.1     | 18,5     | 4,67     | 53,8     |          |
| 2014-03-04 | B2:31-32 B2:36-37      | 0,892    | 0,189    | 19,7     | 4,76     | 133      |          |
| 2014-03-04 | BH1                    | 1,29     | 0,356    | 52,2     | 10,7     | 138      |          |
| 2014-03-06 | BE1                    | 1,83     | 0,663    | 36,3     | 8,12     | 280      |          |
| 2014-03-06 | BE2                    | 1,02     | 0,408    | 26,6     | 4,98     | 164      |          |
| 2014-03-11 | BE3                    | 1,24     | 0,486    | 36,6     | 5,27     | 214      |          |
| 2014-03-11 | BF1                    | 1,13     | 0,336    | 19,4     | 4,51     | 137      |          |
| 2014-03-11 | B2:30/2:35             | 0,957    | 0,128    | 16       | 4,18     | 148      |          |
| 2014-03-11 | BG3                    | 0,548    | <0.1     | 10,8     | 2,48     | 15,1     |          |
| 2014-03-11 | B2:27                  | 1,21     | 0,333    | 5,63     | 5,46     | 277      |          |
| 2014-03-11 | B2:16-17,B2:22-23      | 0,949    | 0,192    | 18,7     | 4,37     | 97,6     |          |

| Riktvärde  |                  | 25       | 15       | 200      | 400      | 500      | 50*      |
|------------|------------------|----------|----------|----------|----------|----------|----------|
|            |                  | As       | Cd       | Cu       | Pb       | Zn       | Sn       |
| Datum      | Beteckning       | mg/kg TS | mg/kg TS | mg/kg TS | mg/kg TS | mg/kg TS | mg/kg TS |
| 2014-03-19 | B2:5/6B2V        | 1,35     | <0.1     | 14,8     | 3,73     | 22,2     |          |
| 2014-03-24 | B2:12/13/19      | 2,83     | <0.1     | 27,6     | 19       | 82,1     |          |
| 2014-03-24 | BB5V,2:10-11     | 3,39     | 0,333    | 50,9     | 19,8     | 217      |          |
| 2014-03-24 | B2:24/25/26      | 1,89     | 0,115    | 10,3     | 9,63     | 113      |          |
| 2014-03-24 | B2:8,7B3V        | 1,79     | 0,105    | 17,4     | 5,97     | 58,5     |          |
| 2014-03-24 | B2:9/B4V         | 1,72     | <0.1     | 14,7     | 4,08     | 35       |          |
| 2014-03-24 | BG3/1:10         | 1,86     | 0,238    | 59,1     | 6,76     | 92,5     |          |
| 2014-03-26 | B2:2/3V          | 0,629    | <0.1     | 16,6     | 3,43     | 24,7     |          |
| 2014-03-26 | BM3/4            | 2,38     | 0,538    | 428      | 36,9     | 981      |          |
| 2014-03-26 | BM5              | 2,6      | 0,103    | 335      | 25,6     | 187      |          |
| 2014-04-03 | BB4-5            | 0,777    | <0.09    | 23,6     | 3,9      | 53,5     |          |
| 2014-04-03 | BK3-4/1:11       | 2,34     | 0,123    | 21,1     | 6,95     | 57,7     |          |
| 2014-04-03 | BK5/1:11         | 1,89     | 0,983    | 25,9     | 7,56     | 164      |          |
| 2014-04-03 | BB3-4            | 0,665    | <0.1     | 18,1     | 3,89     | 31,1     |          |
| 2014-04-14 | BM3/4            | 32,1     | 2,03     | 8040     | 516      | 2770     |          |
| 2014-04-14 | BB1/BB 2         | 0,566    | <0.1     | 20,7     | 4,15     | 29,8     |          |
| 2014-04-14 | BB 2-3           | 1,48     | <0.1     | 30,7     | 3,65     | 27,7     |          |
| 2014-04-14 | B2:2V            | 1,98     | <0.1     | 14,6     | 5,46     | 50,9     |          |
| 2014-04-14 | B brunn G3       | <0.5     | <0.1     | 16,4     | 2,59     | 15,8     |          |
| 2014-04-14 | BK 1-3           | 0,909    | <0.1     | 18,1     | 5,48     | 29,1     |          |
| 2014-04-14 | B2:28-29         | 1,2      | 0,634    | 6,17     | 4,98     | 595      |          |
| 2014-04-14 | BG3/1:10/K1      | 1,55     | <0.1     | 30,7     | 19,8     | 87,8     |          |
| 2014-04-29 | BB2:1            | 2,92     | <0.1     | 16,6     | 6,6      | 44,2     |          |
| 2014-04-29 | BB1 Samlingsprov | 0,843    | <0.1     | 31       | 4,36     | 17,8     |          |

### 3.2 Analyserade halter av organiska ämnen i schaktbottenprover.

| Bottenprover | Riktvärde MKM          | 1000                  | 15       | 20       | 10       |
|--------------|------------------------|-----------------------|----------|----------|----------|
| Ämne         | Beteckning             | alifater >C16-<br>C35 | PAH, L   | PAH, M   | PAH, H   |
| Datum        | Beteckning             | mg/kg TS              | mg/kg TS | mg/kg TS | mg/kg TS |
| 2013-12-20   | BV4 norr BV4 söder     | 172                   | <0.15    | 0,72     | 1,2      |
| 2013-12-20   | B1:16 norr B1:16 söder | 48                    | <0.15    | <0.25    | <0.32    |
| 2013-12-20   | BV3 söder BV3 norr     | 20                    | <0.15    | <0.25    | <0.32    |
| 2013-12-30   | BV1 norr               | 360                   | 0,47     | 4,2      | 4,4      |
| 2013-12-30   | BV1 söder              | <20                   | <0.15    | <0.25    | <0.3     |
| 2013-12-30   | BV1 norr mjuk sed.     | <20                   | <0.15    | <0.25    | <0.3     |
| 2013-12-30   | BV1 mitten             | 140                   | 0,17     | 1,1      | 0,78     |
| 2013-12-30   | BV2 norr               | 240                   | 0,67     | 2,8      | 1        |
| 2013-12-30   | BV2 söder              | 22                    | 0,1      | 0,22     | <0.3     |
| 2013-12-30   | BV2 mitten             | <20                   | <0.15    | 0,12     | <0.3     |
| 2014-01-23   | a) B H4n/1:13s         | <20                   | <0.15    | <0.25    | <0.3     |
| 2014-01-24   | B1:17 norr             | <20                   | <0.15    | <0.25    | <0.32    |
| 2014-01-24   | BV3 söder/B1:17 norr   | <20                   | <0.15    | <0.25    | <0.32    |
| 2014-01-24   | B1:13                  | <20                   | <0.15    | <0.25    | <0.32    |
| 2014-01-24   | B1:17 söder            | <20                   | <0.15    | <0.25    | <0.32    |
| 2014-01-24   | B1:18 söder            | <20                   | <0.15    | <0.25    | <0.32    |
| 2014-02-07   | B1:20 N                | 282                   | <0.15    | 1,4      | 1,4      |
| 2014-02-07   | B1:20 S                | 159                   | 0,35     | 5        | 3,4      |
| 2014-02-07   | B1:14 Ö                | <20                   | <0.15    | <0.25    | <0.32    |

### 3.3 Analyserade metallhalter från slutprover i schaktvägg och slänter

Väggprover har tagits där schaktvägg gränsar till ej sanerade områden eller till fastighetsgräns. För Sn finns inget riktvärde för MKM men halter över 25 mg/kg TS har markerats med gult.

| Väggprover | Riktvärde MKM                        | 25                | 15             | 200            | 400            | 500            | 25             |
|------------|--------------------------------------|-------------------|----------------|----------------|----------------|----------------|----------------|
| Ämne       | Beteckning                           | As<br>mg/kg<br>TS | Cd<br>mg/kg TS | Cu<br>mg/kg TS | Pb<br>mg/kg TS | Zn<br>mg/kg TS | Sn<br>mg/kg TS |
| 2013-12-11 | V1:12,0-1,5m                         | 0,968             | <0.1           | 171            | 12             | 109            | 2,39           |
| 2013-12-11 | V1:12, 1,5-3,0m                      | 37                | 11             | 4460           | 502            | 14400          | 42,6           |
| 2013-12-11 | V1:15, 0-1,5m                        | 0,595             | <0.1           | 71,9           | 5,57           | 53,2           | 0,874          |
| 2013-12-11 | V1:15, 1,5-3,0m                      | 11,9              | 4,56           | 5000           | 265            | 5340           | 85,5           |
| 2013-12-20 | V1:16 4-4,5m                         | 2,24              | 2,28           | 2310           | 93,7           | 2110           | 33,2           |
| 2014-01-23 | a) V H4-5m                           | 3,01              | 13,8           | 713            | 191            | 2840           | 0,201          |
| 2014-01-24 | VG2 norr                             | 1,31              | <0.1           | 25,4           | 5,75           | 27,9           | 0,959          |
| 2014-02-07 | VH4 Väst SV                          | 16,2              | 13,1           | 2280           | 363            | 6610           | 5,1            |
| 2014-03-04 | VH2                                  | 2,33              | 0,191          | 38             | 10,8           | 137            |                |
| 2014-03-11 | VE3                                  | 1,55              | 1,03           | 64,6           | 11,1           | 695            |                |
| 2014-03-11 | VE2                                  | 1,56              | 0,649          | 101            | 8,69           | 346            |                |
| 2014-03-11 | VE1                                  | 1,39              | 0,478          | 30,7           | 6,05           | 416            |                |
| 2014-03-13 | VF1                                  | 1,03              | 0,102          | 30,3           | 5,79           | 48,7           |                |
| 2014-03-13 | VF2                                  | 1,5               | 0,419          | 406            | 30             | 392            |                |
| 2014-03-13 | VF3                                  | 2,22              | 1,49           | 1400           | 110            | 1690           |                |
| 2014-04-14 | VB3                                  | 2,11              | 1,36           | 135            | 21,6           | 654            |                |
| 2014-03-19 | V2:6-8                               | 3,38              | 0,476          | 398            | 24,4           | 326            |                |
| 2014-03-19 | V2:9-11                              | 1,12              | <0.1           | 36,3           | 4,86           | 48,8           |                |
| 2014-03-24 | V2:12-13-14                          | 1,72              | 1,53           | 1130           | 70,8           | 901            |                |
| 2014-03-26 | V2:2-3, 1-2m                         | 2,59              | <0.1           | 18             | 4,7            | 38,3           |                |
| 2014-03-26 | V2:2-3, 2-3m                         | 1,43              | <0.1           | 15,2           | 3,76           | 24,1           |                |
| 2014-03-26 | V2:2N, 1-2m                          | 9,94              | 9,55           | 3360           | 257            | 5770           |                |
| 2014-04-03 | VM4/6                                | 2,66              | 1,36           | 878            | 58,1           | 1850           |                |
| 2014-04-16 | V2:6-10                              | 0,811             | <0.1           | 18,1           | 3,97           | 19,5           |                |
| 2014-04-16 | V2:3-5                               | 1,89              | 1,6            | 142            | 20,8           | 497            |                |
| 2014-04-16 | Väggar brunn G3                      | <0.6              | <0.1           | 12,8           | 2,5            | 20,9           |                |
| 2014-04-29 | V2:1Ö                                | 23,6              | 50             | 3480           | 784            | 16000          |                |
| 2014-04-29 | VB1Ö djup                            | 0,993             | 0,222          | 60,3           | 8,67           | 77,1           |                |
| 2014-04-29 | VB1Ö ytlig                           | 2,28              | 4,58           | 318            | 46,5           | 1220           |                |
| 2014-05-20 | V1:23 S, söder vägg samlingsprov 1+2 | 0,921             | 0,537          | 3550           | 75,9           | 1280           | 15,2           |
| 2014-02-07 | BH4 Väst (väggprov fel benämning)    | 2,24              | 3,18           | 398            | 88,3           | 2080           | 2,48           |
| 2014-04-14 | VB3                                  | 2,11              | 1,36           | 135            | 21,6           | 654            |                |
| 2014-05-20 | V1:23 V vägg V , väst 3              | 1,35              | 0,359          | 9640           | 48,3           | 762            | 10,9           |

### 3.4 Analyserade halter av organiska ämnen i prover från schakt väggar och slänter.

| Väggprover         | Riktvärde MKM | 1000                          | 15                 | 20                 | 10                 |
|--------------------|---------------|-------------------------------|--------------------|--------------------|--------------------|
| Organiska analyser | Beteckning    | alifater >C16-C35<br>mg/kg TS | PAH, L<br>mg/kg TS | PAH, M<br>mg/kg TS | PAH, H<br>mg/kg TS |
| 2013-12-20         | V1:16 4-4,5m  | <20                           | <0.15              | <0.25              | 0,13               |
| 2014-01-23         | a) V H4-5m    | <20                           | 0,32               | 0,57               | <0.3               |
| 2014-04-14         | VB3           | <20                           | <0.15              | <0.25              | <0.3               |
| 2014-04-29         | V2:1Ö         | <20                           | <0.15              | <0.25              | <0.32              |
| 2014-04-29         | VB1Ö djup     | 76                            | <0.15              | <0.25              | <0.32              |
| 2014-04-29         | VB1Ö ytlig    | 157                           | <0.15              | <0.25              | <0.32              |

Gusum sanering etapp 2a

XRF-mätning v 49 - 51, 2013

| Akuttox                 |               |                              |                                                  |                |         |          |           |    |             |      |        | 100 |  |  |  |  | 500 |  |  |  |  |
|-------------------------|---------------|------------------------------|--------------------------------------------------|----------------|---------|----------|-----------|----|-------------|------|--------|-----|--|--|--|--|-----|--|--|--|--|
| MKM                     |               |                              |                                                  |                |         |          |           |    |             |      |        | 25  |  |  |  |  | 120 |  |  |  |  |
| Kor. MKM 80% TS         |               |                              |                                                  |                |         |          |           |    |             |      |        | 20  |  |  |  |  | 170 |  |  |  |  |
| Ruta                    | djup m u my   | jordart mm                   | Anmärkn                                          | Dayum          | Reading | As       | Pb        | Cd | Cu          | Ni   | Zn     |     |  |  |  |  |     |  |  |  |  |
| 1:9 (1:12)              | 2,3           |                              |                                                  | 2013-12-02 #4  | <LOD    | 315      | 21        |    | 1854 <LOD   |      | 11848  |     |  |  |  |  |     |  |  |  |  |
| 1:17 svart              | 0,5           |                              |                                                  | 2013-12-03 #20 | <LOD    |          | 103 <LOD  |    | 674524 <LOD |      | 2797   |     |  |  |  |  |     |  |  |  |  |
| 1:16 grön               | ytligt        |                              |                                                  | 2013-12-04 #4  | <LOD    |          | 783 <LOD  |    | 49331 <LOD  |      | 4693   |     |  |  |  |  |     |  |  |  |  |
| H:4 öst, betong grön    | ytligt        |                              |                                                  | 2013-12-04 #6  | <LOD    |          | <LOD      |    | 1250 <LOD   |      | 1280   |     |  |  |  |  |     |  |  |  |  |
| H:4 öst                 | ytligt        |                              |                                                  | 2013-12-04 #8  | <LOD    |          | 214 <LOD  |    | 94078 <LOD  |      | 13865  |     |  |  |  |  |     |  |  |  |  |
| 10 m                    | ytligt        |                              | betong grön                                      | 2013-12-04 #10 | 53      | 447 <LOD |           |    | 3034        | 232  | 1347   |     |  |  |  |  |     |  |  |  |  |
| 20 m                    | ytligt        |                              | betong hus K från söder, östra kanten, sopad yta | 2013-12-04 #11 | <LOD    |          | 61 <LOD   |    | 547 <LOD    |      | 438    |     |  |  |  |  |     |  |  |  |  |
| 30 m                    | ytligt        |                              | betong hus K från söder, östra kanten, sopad yta | 2013-12-04 #12 |         | 41       | 340 <LOD  |    | 554         | 165  | 586    |     |  |  |  |  |     |  |  |  |  |
| 40 m                    | ytligt        |                              | betong hus K från söder, östra kanten, sopad yta | 2013-12-04 #13 | <LOD    |          | 48 <LOD   |    | 707 <LOD    |      | 372    |     |  |  |  |  |     |  |  |  |  |
| ca 25 m, orange färg    | ytligt        |                              | betong hus K från söder, östra kanten, sopad yta | 2013-12-04 #14 |         | 583      | 5603 <LOD |    | 362         | 2810 | 783    |     |  |  |  |  |     |  |  |  |  |
| väggmur orange          | ytligt        |                              | betong hus K från söder, östra kanten, sopad yta | 2013-12-04 #15 | 73      | 791 <LOD |           |    | 16726 <LOD  |      | 9389   |     |  |  |  |  |     |  |  |  |  |
| fyrkantig plåt          | ytligt        |                              | betong hus K från söder, östra kanten, sopad yta | 2013-12-04 #16 | <LOD    |          | 181 <LOD  |    | 544 <LOD    |      | 860491 |     |  |  |  |  |     |  |  |  |  |
| 5 m från västra sidan   | ytligt        |                              | betong hus K från söder, östra kanten, sopad yta | 2013-12-04 #17 | 6,1     | 36 <LOD  |           |    | 335 <LOD    |      | 506    |     |  |  |  |  |     |  |  |  |  |
| V1:12 väster            | 0-1,5         | sandigt bärlager             |                                                  | 2013-12-05 #5  | <LOD    |          | 26 <LOD   |    | 83 <LOD     |      | 103    |     |  |  |  |  |     |  |  |  |  |
| V1:15                   | 0-1,5         | sandigt bärlager             |                                                  | 2013-12-05 #6  | <LOD    |          | 24 <LOD   |    | 41 <LOD     |      | 133    |     |  |  |  |  |     |  |  |  |  |
| V1:12                   | 1,5-3         | yllning, sand och lera, mörk |                                                  | 2013-12-05 #7  | 27      | 708      | 27        |    | 7625 <LOD   |      | 25044  |     |  |  |  |  |     |  |  |  |  |
| V1:15                   | 1,5-3         | yllning, sand och lera, mörk |                                                  | 2013-12-05 #8  | 31      | 403 <LOD |           |    | 4341 <LOD   |      | 18321  |     |  |  |  |  |     |  |  |  |  |
| 1:16                    | 5,5           |                              |                                                  | 2013-12-10 #7  | <LOD    |          | 68 <LOD   |    | 428 <LOD    |      | 276    |     |  |  |  |  |     |  |  |  |  |
| 1:16                    | 6             |                              |                                                  | 2013-12-10 #8  | 52      | 258      | 23        |    | 8743 <LOD   |      | 2496   |     |  |  |  |  |     |  |  |  |  |
| 1:16                    | 6             |                              |                                                  | 2013-12-10 #9  | 159     | 416 <LOD |           |    | 75785 <LOD  |      | 5245   |     |  |  |  |  |     |  |  |  |  |
| B1:16 söder             | 6,3           |                              |                                                  | 2013-12-10 #11 | 15      | 266 <LOD |           |    | 7639 <LOD   |      | 3809   |     |  |  |  |  |     |  |  |  |  |
| B1:16 norr mot staketet | 6,3           |                              |                                                  | 2013-12-10 #12 | 83      | 564      | 40        |    | 6754 <LOD   |      | 44477  |     |  |  |  |  |     |  |  |  |  |
| V1:16                   | 4-4,5 m u väg | grSaFyll                     |                                                  | 2013-12-10 #14 | <LOD    |          | 204 <LOD  |    | 3303 <LOD   |      | 2275   |     |  |  |  |  |     |  |  |  |  |
| V1:16                   | 4-4,5 m u väg | grSaFyll                     |                                                  | 2013-12-10 #15 | <LOD    |          | 120 <LOD  |    | 2836 <LOD   |      | 1454   |     |  |  |  |  |     |  |  |  |  |
| BV:4 norr               | 6,3           | grSaFyll på hårbotten        | blött                                            | 2013-12-11 #4  | 109     | 929      | 30        |    | 15326 <LOD  |      | 68741  |     |  |  |  |  |     |  |  |  |  |
| BV:4 söder              | 6,3           | grSaFyll på hårbotten        | mycket blött                                     | 2013-12-11 #5  | 38      | 363      | 24        |    | 9541 <LOD   |      | 5289   |     |  |  |  |  |     |  |  |  |  |
| BV:4 söder              | 6,3           | grSaFyll på hårbotten        | mycket blött                                     | 2013-12-11 #6  | 17      | 428 <LOD |           |    | 9848        | 54   | 7353   |     |  |  |  |  |     |  |  |  |  |
| Vråka morän             | 6,3           | Återfyll                     |                                                  | 2013-12-11 #11 | <LOD    |          | 17 <LOD   |    | 22 <LOD     |      | 43     |     |  |  |  |  |     |  |  |  |  |
| V3:norr                 | 6,3           | sandigt grusigt              | blött                                            | 2013-12-12 #30 | 138     | 1707     | 31        |    | 40335 <LOD  |      | 45907  |     |  |  |  |  |     |  |  |  |  |
| V3:norr                 | 6,3           | sandigt grusigt              | blött                                            | 2013-12-12 #31 | 159     | 1850     | 24        |    | 13461       | 52   | 33373  |     |  |  |  |  |     |  |  |  |  |
| V5:S                    | 6,3           | sandigt grusigt              | blött                                            | 2013-12-12 #32 | 194     | 1207     | 38        |    | 30421 <LOD  |      | 90701  |     |  |  |  |  |     |  |  |  |  |
| V5:S                    | 6,3           | smågrusigt                   | blött                                            | 2013-12-12 #33 | 151     | 838 <LOD |           |    | 11893 <LOD  |      | 62245  |     |  |  |  |  |     |  |  |  |  |
| BV1 söder               | 6,3           | SaGr                         |                                                  | 2013-12-16 #5  | 116     | 1583     | 31        |    | 71960 <LOD  |      | 57674  |     |  |  |  |  |     |  |  |  |  |
| BV1 mitten              | 6,3           | SaGr                         |                                                  | 2013-12-16 #6  | 77      | 1389     | 32        |    | 13544 <LOD  |      | 36589  |     |  |  |  |  |     |  |  |  |  |
| BV1 norr                | 6,3           | SaGr mindre grovt            | blött                                            | 2013-12-16 #7  | 77      | 2349     | 78        |    | 21815 <LOD  |      | 81191  |     |  |  |  |  |     |  |  |  |  |
| BV1 norr                | 6,3           | mjuk under sediment          | blött                                            | 2013-12-16 #8  | <LOD    |          | 940       | 39 | 29636 <LOD  |      | 24536  |     |  |  |  |  |     |  |  |  |  |

Slutsatser: Betong ylligt förorenad överallt. Medelhalter borkärnor sen tidigare dock under icke farligt avfall med undantag av "ruttan eller grönfärgad betong". Inget återtag av IFA-betong utan allt skickas som Toverumsmassor. Grönfärgad betong sorteras som farligt avfall till för behandling på RGS90. Moränmassor från Vråka godkända värden, skickas även för analys. Bottenprover (B) i å-kant ned till hård ytan ej godkända, grusigt material, beslutar att inte fortsätta schaktning då risken för föroreningsspridning vid schakt, och eller efter att siltskärm tagits bort bedöms som för stor.



## Gusum sanering etapp 2a

## XRF-mätning v 2, 2014

| Akuttox                                 | 100              |            |           |                               |            |       |      |       |       |       |
|-----------------------------------------|------------------|------------|-----------|-------------------------------|------------|-------|------|-------|-------|-------|
| MKM                                     | 25               |            |           |                               |            |       |      |       |       |       |
| Kor. MKM 80% TS                         | 20               |            |           |                               |            |       |      |       |       |       |
| Slutprov                                | Provnr           | djup m u n | jordart m | Anmärkn                       | Datum      | XRFnr | As   | Pb    | Cu    | Zn    |
|                                         | 1:16/17          | 5,5        | spån      | svart finkornig               | 2014-01-08 | #8    | 521  | 11339 | 17105 | 42679 |
|                                         | 1:16/17          | 6,5        | spån      | spån/svart jord               | 2014-01-08 | #9    | <LOD | 316   | 370   | 1060  |
|                                         | 1:16/17          | 6,1        | ren spån  | rent spån                     | 2014-01-08 | #10   | <LOD | 6,4   | <LOD  | 369   |
|                                         | 1:16/17          | 6,6        | le        | grå tät lera                  | 2014-01-08 | #11   | <LOD | 31    | 24    | 122   |
| X                                       | B V3 1:17norr (c | 7          | grle      | grusig lera                   | 2014-01-08 | #12   | <LOD | 32    | 170   | 137   |
| X                                       | B1:17 norr       | 7          | le        | lera                          | 2014-01-08 | #13   | <LOD | 43    | 120   | 249   |
| X geoduk                                | V1:17            | 6          | saF       | Svart storkornigt grus mkt or | 2014-01-09 | #7    | <LOD | 305   | 1447  | 18300 |
| Diverse provtagning på mark 1:17 o 1:16 |                  |            |           |                               |            |       |      |       |       |       |
|                                         | B 1:17 mitten    | 7          | grLe      |                               | 2014-01-09 | #9    | 17   | 261   | 352   | 982   |
|                                         | B 1:17 mitten    | 7          | grLe      |                               | 2014-01-09 | #10   | <LOD | 128   | 122   | 671   |
|                                         | B 1:17 mitten    | 7          | grle      |                               | 2014-01-09 | #11   | 48   | 340   | 721   | 1858  |
|                                         | B 1:17 mitten    | 7,3        | Le        |                               | 2014-01-09 | #13   | <LOD | 145   | 230   | 731   |
| X                                       | B 1:17 mitten    | 7,3        | Le        | slutprov norr/mitten pr 1     | 2014-01-09 | #14   | <LOD | 51    | 135   | 352   |
| X                                       | B 1:17 mitten    | 7,3        | Le        | slutprov norr/mitten pr2      | 2014-01-09 | #16   | <LOD | 32    | 36    | 94    |

Slutsatser :

Grävning har nått ren naturlig lera i ruta mellan 1:16/1:17, under gv-yta. Tydlig avgränsning i struktur och halter.

Gusum sanering etapp 2a  
XRF-mätning v 3, 2014

| Akuttox/FA                                 | 100      |          |    |                |            |          |         |      |      |      |       |
|--------------------------------------------|----------|----------|----|----------------|------------|----------|---------|------|------|------|-------|
| MKM                                        | 25       |          |    |                |            |          |         |      |      |      |       |
| Korrigerad MKM 80% TS                      | 20       |          |    |                |            |          |         |      |      |      |       |
| Provnr                                     | bjup m u | mjordart | mm | Anmärkn        | Datum      | tid      | Reading | As   | Pb   | Cu   | Zn    |
| 1:19 murhörn                               | 5,5      | grsaF    |    | brun           | 2014-01-13 | 14:07:33 | #7      | <LOD | 572  | 3646 | 10043 |
| 1:19 murhörn                               | 5,5      | grsaF    |    | brunsvart      | 2014-01-13 | 14:11:14 | #8      | <LOD | 687  | 4631 | 20296 |
| VG2 direkt mark                            | 1,5      | grsaF    |    | brun           | 2014-01-14 | 07:54:46 | #9      | <LOD | 20   | 30   | 94    |
| VG2 direkt mark                            | 5        | grsaF    |    | brun           | 2014-01-14 | 07:56:10 | #10     | <LOD | 18   | 22   | 81    |
| G2 direk mark                              | 5        | grsaF    |    | brun           | 2014-01-14 | 07:58:00 | #11     | <LOD | 22   | 18   | 129   |
| G2 direkt mark                             | 5        | grsaF    |    | brun           | 2014-01-14 | 07:59:27 | #12     | <LOD | 28   | 70   | 166   |
| G1 direkt mark                             | 5        | grsaF    |    | brun           | 2014-01-14 | 08:03:26 | #13     | <LOD | 21   | 27   | 144   |
| G1 direkt mark                             | 5        | grsaF    |    | brun           | 2014-01-14 | 08:15:41 | #14     | <LOD | 50   | 497  | 1213  |
| "Limpor med material fr Källarschakt G1/G2 |          |          |    |                |            |          |         |      |      |      |       |
| limpa N                                    |          |          |    |                | 2014-01-14 | 08:37:45 | #15     | <LOD | 41   | 229  | 574   |
| Limpa Mitt                                 |          |          |    |                | 2014-01-14 | 08:40:39 | #16     | <LOD | 21   | 26   | 120   |
| Limpa mitt                                 |          |          |    |                | 2014-01-14 | 08:42:20 | #17     | <LOD | 17.2 | <LOD | 71    |
| Limpa söder                                |          |          |    |                | 2014-01-14 | 08:44:13 | #18     | <LOD | 29   | 24   | 86    |
| Limpa väster                               |          |          |    |                | 2014-01-14 | 08:45:55 | #19     | <LOD | 14   | 17   | 68    |
| Limpa N prov 10 cm bredvid nr 15 ovan      |          |          |    |                | 2014-01-14 | 08:47:40 | #20     | <LOD | 27   | 47   | 235   |
| BG1                                        | 5        | grsaF    |    | brun           | 2014-01-14 | 09:11:19 | #21     | <LOD | 25   | 45   | 127   |
| BG2                                        | 5        | grsaF    |    | brun           | 2014-01-14 | 09:13:25 | #22     | <LOD | 22   | 44   | 404   |
| VG2 norr                                   | 5        | grsaF    |    | brun           | 2014-01-14 | 09:15:03 | #23     | <LOD | 28   | 309  | 198   |
| BG2 omprov                                 | 5        | grsaF    |    | brun           | 2014-01-14 | 09:17:09 | #24     | <LOD | 22   | 41   | 190   |
| VG2 omprov                                 | 5        | grsaF    |    | brun           | 2014-01-14 | 09:18:46 | #25     | <LOD | 24   | 47   | 75    |
| Uppschaktade högar från hus Go H           |          |          |    |                |            |          |         |      |      |      |       |
| Hög 1                                      |          |          |    | ljus brun jord | 2014-01-14 | 14:54:53 | #34     | <LOD | 28   | 58   | 289   |
| Hög 1                                      |          |          |    | ljus brun jord | 2014-01-14 | 14:56:20 | #35     | <LOD | 32   | 130  | 353   |
| Hög 1                                      |          |          |    | ljus brun jord | 2014-01-14 | 14:57:42 | #36     | <LOD | 126  | 1004 | 2120  |
| Hög 1                                      |          |          |    | ljus brun jord | 2014-01-14 | 14:59:02 | #37     | <LOD | 37   | 254  | 440   |
| Hög 1                                      |          |          |    | ljus brun jord | 2014-01-14 | 15:00:22 | #38     | <LOD | 44   | 2102 | 1333  |
| Hög 1                                      |          |          |    | ljus brun jord | 2014-01-14 | 15:01:43 | #39     | <LOD | 32   | 250  | 392   |

|                                             |            |            |                    |            |          |         |      |     |      |      |
|---------------------------------------------|------------|------------|--------------------|------------|----------|---------|------|-----|------|------|
| Akuttox/FA                                  |            | 100        |                    |            |          |         |      |     |      |      |
| MKM                                         |            | 25         |                    |            |          |         |      |     |      |      |
| Korrigerad MKM 80% TS                       |            | 20         |                    |            |          |         |      |     |      |      |
| Provnr                                      | bjup m u m | jordart mm | Anmärkn            | Datum      | tid      | Reading | As   | Pb  | Cu   | Zn   |
| Hög 1                                       |            |            | Ijus brun jord     | 2014-01-14 | 15:02:57 | #40     | <LOD | 101 | 739  | 1395 |
| Hög 1                                       |            |            | Ijus brun jord     | 2014-01-14 | 15:04:12 | #41     | <LOD | 18  | 29   | 127  |
| Hög 1                                       |            |            | Ijus brun jord     | 2014-01-14 | 15:05:32 | #42     | 7    | 87  | 893  | 3300 |
| Hög 1                                       |            |            | Ijus brun jord     | 2014-01-14 | 15:06:48 | #43     | <LOD | 53  | 250  | 631  |
| Hög 1                                       |            |            | Ijus brun jord     | 2014-01-14 | 15:08:28 | #45     | <LOD | 161 | 3682 | 4160 |
| Hög 1                                       |            |            | Ijus brun jord     | 2014-01-14 | 15:10:00 | #46     | <LOD | 37  | 444  | 568  |
| Hög 1                                       |            |            | Ijus brun jord     | 2014-01-14 | 15:11:34 | #47     | <LOD | 28  | 116  | 447  |
| Hög 2                                       |            |            | blandat mörkare jc | 2014-01-14 | 15:26:09 | #48     | <LOD | 102 | 702  | 1656 |
| Hög 2                                       |            |            | blandat mörkare jc | 2014-01-14 | 15:27:30 | #49     | <LOD | 136 | 7690 | 4620 |
| Hög 2                                       |            |            | blandat mörkare jc | 2014-01-14 | 15:28:50 | #50     | <LOD | 171 | 3527 | 5136 |
| Hög2                                        |            |            | blandat mörkare jc | 2014-01-14 | 15:31:16 | #51     | 9    | 55  | 794  | 2192 |
| Hög 2                                       |            |            | blandat mörkare jc | 2014-01-14 | 15:32:36 | #52     | <LOD | 43  | 268  | 589  |
| Hög 2                                       |            |            | blandat mörkare jc | 2014-01-14 | 15:35:07 | #54     | <LOD | 50  | 750  | 1736 |
| Hög 3                                       |            |            | blandat mörkare    | 2014-01-14 | 15:36:27 | #55     | <LOD | 154 | 4885 | 4224 |
| Hög 3                                       |            |            | blandat mörkare    | 2014-01-14 | 15:39:14 | #56     | <LOD | 57  | 664  | 953  |
| Hög 3                                       |            |            | blandat mörkare    | 2014-01-14 | 15:40:35 | #57     | <LOD | 31  | 972  | 526  |
| Hög 3                                       |            |            | blandat mörkare    | 2014-01-14 | 15:41:50 | #58     | <LOD | 175 | 1408 | 2878 |
| Hög 3                                       |            |            | blandat mörkare    | 2014-01-14 | 15:43:14 | #59     | <LOD | 157 | 1319 | 2037 |
| Hög 3                                       |            |            | blandat mörkare    | 2014-01-14 | 15:44:31 | #60     | <LOD | 762 | 1714 | 6419 |
| Hög 3                                       |            |            | blandat mörkare    | 2014-01-14 | 15:46:13 | #61     | <LOD | 55  | 364  | 809  |
| Hög 3                                       |            |            | blandat mörkare    | 2014-01-14 | 15:47:34 | #62     | <LOD | 22  | 62   | 142  |
| Hög 3                                       |            |            | blandat mörkare    | 2014-01-14 | 15:48:51 | #63     | <LOD | 18  | 29   | 93   |
| Hög 3                                       |            |            | blandat mörkare    | 2014-01-14 | 15:50:06 | #64     | <LOD | 40  | 660  | 532  |
| B18 söder                                   | 7 Le       |            | grå under gv, olja | 2014-01-14 |          | 66      | <LOD | 32  | 33   | 120  |
| B1:17 söder                                 | 7 grLe     |            | grå under gv, olja | 2014-01-14 |          | 67      | <LOD | 52  | 58   | 163  |
| B1:13                                       | 7 Le       |            | grå under gv, olja | 2014-01-14 |          | 68      | 9    | 109 | 134  | 402  |
| Hög T ej org uppschaktat från Hus G o K saF |            |            |                    | 2014-01-15 | 16:34:12 | #5      | <LOD | 42  | 330  | 813  |
| Hög T ej org saF                            |            |            |                    | 2014-01-15 | 16:35:39 | #6      | <LOD | 155 | 1174 | 2620 |
| Hög T ej org saF                            |            |            |                    | 2014-01-15 | 16:37:02 | #7      | <LOD | 53  | 203  | 753  |
| Hög T ej org saF                            |            |            |                    | 2014-01-15 | 16:38:28 | #8      | <LOD | 31  | 195  | 353  |

|                               |                      |                     |            |          |         |      |      |      |      |  |
|-------------------------------|----------------------|---------------------|------------|----------|---------|------|------|------|------|--|
| Akuttox/FA                    | 100                  |                     |            |          |         |      |      |      |      |  |
| MKM                           | 25                   |                     |            |          |         |      |      |      |      |  |
| Korrigerad MKM 80% TS         | 20                   |                     |            |          |         |      |      |      |      |  |
| Provnr                        | Þjup m u mjordart mm | Anmärkn             | Datum      | tid      | Reading | As   | Pb   | Cu   | Zn   |  |
| Hög T ej org                  | saF                  |                     | 2014-01-15 | 16:39:49 | #9      | <LOD | 56   | 480  | 1015 |  |
| Hög T ej org                  | saF                  |                     | 2014-01-15 | 16:41:28 | #10     | <LOD | 60   | 441  | 993  |  |
| Hög T ej org                  | saF                  |                     | 2014-01-15 | 16:42:49 | #11     | 9    | 83   | 817  | 1816 |  |
| Hög T ej org                  | saf                  |                     | 2014-01-15 | 16:44:10 | #12     | <LOD | 44   | 367  | 666  |  |
| Hög T ej org                  | saF                  |                     | 2014-01-15 | 16:45:40 | #13     | <LOD | 59   | 672  | 986  |  |
| BH4N/1:35S östra delen        | 6,5 (gr)Le           | grå                 | 2014-01-16 | 08:53:11 | #6      | <LOD | 17.8 | 18   | 122  |  |
| BH4N/1:35S östra delen        | 6,5 (gr)Le           | grå                 | 2014-01-16 | 08:54:30 | #7      | <LOD | 21   | <LOD | 114  |  |
| BH4N/1:35 S mittprov          | 6,5 (gr)Le           | brungrå T torrskpc  | 2014-01-16 | 09:02:20 | #8      | <LOD | 76   | 59   | 407  |  |
| BH4N/1:35 S mittprov          | 6,5 (gr)Le           | brungrå T torrskpc  | 2014-01-16 | 09:03:35 | #9      | <LOD | 42   | 46   | 324  |  |
| BH4N/1:13 s västra delen      | 6,5 (gr)Le           | brungrå T torrskpc  | 2014-01-16 | 09:06:04 | #10     | <LOD | 28   | 29   | 119  |  |
| Högar E o F (källarschakt mm) | (gr)Le               | brungrå T torrskpc  | 2014-01-16 | 09:07:37 | #12     | <LOD | 31   | 22   | 103  |  |
| svart slagg                   | grsaF                | svart               | 2014-01-16 | 13:10:05 | #13     | 11   | 138  | 2323 | 4457 |  |
| Blandprov södra delen         | lesaF                | ljus med svarta ins | 2014-01-16 | 13:12:26 | #14     | 15   | 166  | 1221 | 5811 |  |
| Blandprov norra delen         | lesaF                | mörk                | 2014-01-16 | 13:17:24 | #15     | <LOD | 136  | 2396 | 3458 |  |
| Svart jord, mittersta delen   | sisaf                | svart jordstruktur  | 2014-01-16 | 13:19:04 | #16     | <LOD | 204  | 2946 | 9962 |  |
| B H4 (mitten)                 | 4 Le                 | grå                 | 2014-01-16 | 14:34:04 | #18     |      |      |      |      |  |
| VH4 (vägg lämnad) samlingsi   | 5 saF                | med träfiber        | 2014-01-16 | 14:42:59 | #19     | <LOD | 24   | 29   | 254  |  |

Slutsatser:

Hög bedömd som icke farligt avfall. Skickades till RGS90 då högen hindrade betongknackningen. Även hög 2 och 3 gick till RGS90 men som FA-massor.  
 Slutprov: BG1, BG, VG2, BH4/1:13, VH4 (släntfot lämnad pga stabilitet väg), BH4 (delprov)

## Gusum sanering etapp 2a

## XRF-mätning v 4, 2014

| Akuttox/FA                |            | 100      |                                            | 25         |          | 400   |      | 200 |      | 500   |  |
|---------------------------|------------|----------|--------------------------------------------|------------|----------|-------|------|-----|------|-------|--|
| MKM                       |            | 20       |                                            | 330        |          | 170   |      | 420 |      | 420   |  |
| Korrigerad MKM 80% TS     |            |          |                                            |            |          |       |      |     |      |       |  |
| Provnr                    | Öjup m u m | ordart m | Anmärkn                                    | datum      | tid      | XRFnr | As   | Pb  | Cu   | Zn    |  |
| H4                        | 3-5        | Le       | (schaktar mer)                             | 2014-01-20 | 14:13:12 | #5    |      |     |      |       |  |
| H4                        | 3-5        | Le       | grå                                        | 2014-01-20 | 14:17:29 | #6    | <LOD | 31  | 21   | 1142  |  |
| H4                        | 3-5        | Le       | grå                                        | 2014-01-20 | 14:24:42 | #7    | <LOD | 36  | 26   | 404   |  |
| H4                        | 3-5        | Le       | grå                                        | 2014-01-20 | 14:27:35 | #8    | <LOD | 28  | 21   | 1291  |  |
| H4                        | 3-5        | Le       | grå                                        | 2014-01-20 | 14:29:23 | #9    | <LOD | 32  | 42   | 645   |  |
| H4                        | 3-5        | saleF    | grå                                        | 2014-01-20 | 14:31:21 | #10   | 47   | 420 | 5208 | 11470 |  |
| H4                        | 3-5        | saleF    | grå                                        | 2014-01-20 | 14:36:39 | #11   | 21   | 309 | 6275 | 8597  |  |
| BH4 SÖ                    | 5 Le       |          | grå (schaktar mer)                         | 2014-01-20 | 15:40:27 | #13   | 9    | 62  | 458  | 2175  |  |
| BH4NÖ                     | 5,5 Le     |          | grå                                        | 2014-01-20 | 15:42:22 | #14   | <LOD | 24  | 19   | 85    |  |
|                           | Le         |          | grå                                        | 2014-01-20 | 15:47:33 | #15   | <LOD | 29  | 44   | 132   |  |
|                           |            |          |                                            | 2014-01-21 | 08:19:45 | #3    |      |     |      |       |  |
| H4 Ö (vid ledning/brunn)  |            |          | kontroll                                   | 2014-01-21 | 08:20:53 | #4    | <LOD | 25  | 160  | 242   |  |
| H4 Ö (vid ledning/brur Le |            |          | kontroll                                   | 2014-01-21 | 08:22:18 | #5    | <LOD | 23  | 22   | 100   |  |
| H4 Ö (vid ledning/brur Le |            |          | kontroll                                   | 2014-01-21 | 08:24:26 | #6    | <LOD | 25  | 13   | 99    |  |
|                           | Le         |          |                                            | 2014-01-21 | 08:26:53 | #7    | <LOD | 24  | 31   | 331   |  |
| H4ö                       | 5 Le       |          |                                            | 2014-01-21 | 08:22:18 | #5    | <LOD | 23  | 22   | 100   |  |
| H4ö                       | 5 Le       |          |                                            | 2014-01-21 | 08:24:26 | #6    | <LOD | 25  | 13   | 99    |  |
| H4ö                       | 5 Le       |          |                                            | 2014-01-21 | 08:26:53 | #7    | <LOD | 24  | 31   | 331   |  |
| 1:14ö                     | 7 Le       |          |                                            | 2014-01-22 | 08:08:59 | #10   | <LOD | 44  | 45   | 168   |  |
| H4NV                      | 5 Fsale    |          | Till samlingsprov H4väst                   | 2014-01-22 | 11:42:15 | #13   | <LOD | 250 | 2334 | 6113  |  |
| H4NV                      | 5 Le       |          | Till samlingsprov H4väst                   | 2014-01-22 | 11:45:35 | #14   | <LOD | 27  | 26   | 94    |  |
| H4SV                      | 5 sale     |          | Till samlingsprov H4väst                   | 2014-01-22 | 11:47:12 | #15   | <LOD | 34  | 120  | 364   |  |
| H4NV                      | 5 sale     |          | Till samlingsprov H4väst                   | 2014-01-22 | 11:49:51 | #16   | <LOD | 52  | 144  | 4747  |  |
| VH4SV                     | 3 sale     |          | Schaktvägg. Till samlingsprov H4västSV     | 2014-01-22 | 11:52:49 | #17   | <LOD | 924 | 6104 | 21232 |  |
| VHNV                      | 3 Sa       |          | Schaktvägg. Till samlingsprov H4västSV     | 2014-01-22 | 11:54:55 | #18   | <LOD | 23  | 130  | 156   |  |
| B1                        | Fsa        |          | Översiktlig kontroll av föreningssituation | 2014-01-22 | 16:19:46 | #21   | <LOD | 69  | 577  | 1438  |  |
| B1                        | Fsa        |          | Översiktlig kontroll av föreningssituation | 2014-01-22 | 16:21:31 | #22   | <LOD | 34  | 228  | 423   |  |
| B1                        | Fsa        |          | Översiktlig kontroll av föreningssituation | 2014-01-22 | 16:23:18 | #23   | <LOD | 198 | 1556 | 7465  |  |
| B1                        | Le         |          | Översiktlig kontroll av föreningssituation | 2014-01-22 | 16:24:50 | #24   | <LOD | 23  | 37   | 394   |  |
| B1                        | F          |          | Översiktlig kontroll av föreningssituation | 2014-01-22 | 16:27:00 | #25   | <LOD | 40  | 961  | 1264  |  |
| B5                        | F          |          | Översiktlig kontroll av föreningssituation | 2014-01-22 | 16:30:35 | #26   | <LOD | 107 | 1931 | 3013  |  |

## Slutsats:

I H4 schaktades 10-20 cm ner i lerskikt innan det blev rent. Vägg mot väst/mur/väg ej ren.

Gusum sanering etapp 2a  
XRF-mätning v 5, 2014

| Akuttox/FA            |             | 100       |                                                 | 400        |          | 200   |      | 500  |       |       |
|-----------------------|-------------|-----------|-------------------------------------------------|------------|----------|-------|------|------|-------|-------|
| MKM                   |             | 25        |                                                 | 330        |          | 170   |      | 420  |       |       |
| Korrigerad MKM 80% TS |             | 20        |                                                 |            |          |       |      |      |       |       |
| Provnr                | djup m u my | ordart mn | Anmärkn                                         | datum      | tid      | XRFnr | As   | Pb   | Cu    | Zn    |
| svart sida            |             |           | Stor svart sten som låg i ån (svart beläggning) | 2014-01-27 | 11:08:34 | #5    | 49   | 450  | 64894 | 2161  |
| grå ovalsida          |             |           | Stor svart sten som låg i ån (svart beläggning) | 2014-01-27 | 11:10:15 | #6    | <LOD | 776  | 9778  | 3749  |
| grå ovalsida          |             |           | Stor svart sten som låg i ån (svart beläggning) | 2014-01-27 | 11:10:41 | #7    | <LOD | 114  | 1514  | 409   |
| renare del            |             |           | Stor svart sten som låg i ån (svart beläggning) | 2014-01-27 | 11:11:31 | #8    | 15   | 157  | 1682  | 493   |
| Hög söder             |             | SaF       | Hög från 1:20                                   | 2014-01-27 | 13:37:37 | #10   | <LOD | 246  | 5888  | 2082  |
| Hög betong            |             |           |                                                 | 2014-01-27 | 13:39:24 | #11   | 29   | 34   | 177   | 144   |
| Hög N                 |             | SaF       |                                                 | 2014-01-27 | 13:41:03 | #12   | <LOD | 701  | 10742 | 5231  |
| 1:20N1                |             | SastgrF   |                                                 | 2014-01-27 | 18:02:11 | #16   | <LOD | 1141 | 9819  | 18654 |
| 1:20N2                |             | SastgrF   |                                                 | 2014-01-27 | 18:04:10 | #17   | <LOD | 1855 | 18829 | 8275  |
| 1:20Mitt3             |             | sastgrF   | mer sediment                                    | 2014-01-27 | 18:06:42 | #18   | <LOD | 823  | 31265 | 9530  |
| 1:20 Mitt4            |             | SaStgrF   |                                                 | 2014-01-27 | 18:08:31 | #19   | 58   | 1124 | 23620 | 5796  |
| 1:20S5                |             | SaStgrF   |                                                 | 2014-01-27 | 18:11:00 | #20   | <LOD | 457  | 7199  | 2778  |
| 1:20S6                |             | SaStgrF   |                                                 | 2014-01-27 | 18:16:27 | #21   | 24   | 338  | 8136  | 1516  |
| K7                    | 5-6         | lera      | fältnätning                                     | 2014-01-29 | 14:42:58 | #6    | <LOD | 33   | 28    | 110   |
| K7                    | 5-6         | lera      | fältnätning                                     | 2014-01-29 | 14:44:18 | #7    | <LOD | 28   | 26    | 119   |
| K7                    | 5-6         | lera      | fältnätning                                     | 2014-01-29 | 14:45:39 | #8    | <LOD | 53   | 24    | 221   |
| K7                    | 5-6         | lera      | fältnätning                                     | 2014-01-29 | 14:47:20 | #9    | <LOD | 29   | 21    | 110   |
| K7 Ö                  | 5-6         | lera      | sammanslås med väst för slutprov                | 2014-01-29 | 15:17:36 | #10   | <LOD | 30   | 23    | 108   |
| K7 V                  | 5-6         | lera      | sammanslås med öst för slutprov                 | 2014-01-29 | 15:21:56 | #11   | <LOD | 23   | 17    | 95    |
| K6/1:11               |             | lera      | på mark i K6/1:11 inför slutprov                | 2014-01-30 | 15:43:07 | #6    | <LOD | 20   | 19    | 102   |
| K6/1:11               |             | lera      | på mark i K6/1:11 inför slutprov                | 2014-01-30 | 15:44:34 | #7    | <LOD | 30   | 24    | 105   |
| K6/1:11               |             | lera      | på mark i K6/1:11 inför slutprov                | 2014-01-30 | 15:46:16 | #8    | <LOD | 32   | 22    | 101   |
| K6/1:11               |             | lera      | på mark i K6/1:11 inför slutprov                | 2014-01-30 | 15:47:46 | #9    | <LOD | 19   | <LOD  | 92    |

Gusum sanering etapp 2a  
XRF-mätning v 6, 2014

| Akuttox/FA            |         | 100      |     |                         |            |          |       |      |      |      |      | 25  |  | 400 |  | 200 |  | 500 |  |
|-----------------------|---------|----------|-----|-------------------------|------------|----------|-------|------|------|------|------|-----|--|-----|--|-----|--|-----|--|
| MKM                   |         | 20       |     |                         |            |          |       |      |      |      |      | 330 |  | 170 |  | 420 |  |     |  |
| Korrigerad MKM 80% TS |         | 20       |     |                         |            |          |       |      |      |      |      | 330 |  | 170 |  | 420 |  |     |  |
| Provnr                | jup m u | miordart | mnr | Anmärkn                 | datum      | tid      | XRFnr | As   | Pb   | Cu   | Zn   |     |  |     |  |     |  |     |  |
| K6-7 och 1/11         |         |          |     | diverse prover K67/1:11 | 2014-02-04 | 15:01:47 | #5    | <LOD | 39   | 54   | 469  |     |  |     |  |     |  |     |  |
| K6-7 och 1/11         |         |          |     | diverse prover K67/1:11 | 2014-02-04 | 15:03:13 | #6    | <LOD | 3248 | 743  | 4043 |     |  |     |  |     |  |     |  |
| K6-7 och 1/11         |         |          |     | diverse prover K67/1:11 | 2014-02-04 | 15:04:30 | #7    | <LOD | 172  | 258  | 3491 |     |  |     |  |     |  |     |  |
| K6-7 och 1/11         |         |          |     | diverse prover K67/1:11 | 2014-02-04 | 15:06:09 | #8    | <LOD | 28   | 31   | 118  |     |  |     |  |     |  |     |  |
| K6-7 och 1/11         |         |          |     | diverse prover K67/1:11 | 2014-02-04 | 15:07:48 | #9    | <LOD | 15   | 14   | 171  |     |  |     |  |     |  |     |  |
| K6-7 och 1/11         |         |          |     | diverse prover K67/1:11 | 2014-02-04 | 15:09:29 | #10   | <LOD | 285  | 96   | 4359 |     |  |     |  |     |  |     |  |
| K6-7 och 1/11         |         |          |     | diverse prover K67/1:11 | 2014-02-04 | 15:10:54 | #11   | <LOD | 20   | 65   | 1337 |     |  |     |  |     |  |     |  |
| K6-7 och 1/11         |         |          |     | diverse prover K67/1:11 | 2014-02-04 | 15:19:19 | #12   | <LOD | 14   | <LOD | 552  |     |  |     |  |     |  |     |  |
| K6-7 och 1/11         |         |          |     | diverse prover K67/1:11 | 2014-02-04 | 15:20:54 | #13   | <LOD | 24   | 19   | 160  |     |  |     |  |     |  |     |  |
| K6-7 och 1/11         |         |          |     | diverse prover K67/1:11 | 2014-02-04 | 15:21:01 | #14   | <LOD | <LOD | <LOD | 249  |     |  |     |  |     |  |     |  |
| K6-7 och 1/11         |         |          |     | diverse prover K67/1:11 | 2014-02-04 | 15:23:48 | #15   | <LOD | 22   | 39   | 1608 |     |  |     |  |     |  |     |  |
| K6-7 och 1/11         |         |          |     | diverse prover K67/1:11 | 2014-02-04 | 15:26:00 | #16   | <LOD | 24   | 38   | 1284 |     |  |     |  |     |  |     |  |
| K6-7 och 1/11         |         |          |     | diverse prover K67/1:11 | 2014-02-04 | 15:26:35 | #17   | <LOD | 20   | 572  | 952  |     |  |     |  |     |  |     |  |
| K6-7 och 1/11         |         |          |     | diverse prover K67/1:11 | 2014-02-04 | 15:39:31 | #18   | <LOD |      |      |      |     |  |     |  |     |  |     |  |
| K6-7 och 15-6         |         |          |     | Stickprov K6/1:11       | 2014-02-04 | 16:31:45 | #19   | <LOD | 22   | 34   | 345  |     |  |     |  |     |  |     |  |
| K6-7 och 15-6         |         |          |     | Stickprov K6/1:11       | 2014-02-04 | 16:33:53 | #20   | <LOD | 26   | 30   | 119  |     |  |     |  |     |  |     |  |
| K6-7 och 1/11         |         |          |     | diverse prover K67/1:11 | 2014-02-04 | 16:57:18 | #22   | <LOD | 27   | 25   | 103  |     |  |     |  |     |  |     |  |
| K6-7 och 1/11         |         |          |     | diverse prover K67/1:11 | 2014-02-04 | 16:58:44 | #23   | <LOD | 23   | 23   | 117  |     |  |     |  |     |  |     |  |
| K6-7 och 1/11         |         |          |     | diverse prover K67/1:11 | 2014-02-04 | 17:00:10 | #24   | <LOD | 31   | 103  | 328  |     |  |     |  |     |  |     |  |
| K6-7 och 1/11         |         |          |     | diverse prover K67/1:11 | 2014-02-04 | 17:01:40 | #25   | <LOD | 29   | <LOD | 149  |     |  |     |  |     |  |     |  |
| K6-7 och 1/11         |         |          |     | diverse prover K67/1:11 | 2014-02-04 | 17:03:45 | #26   | <LOD | 22   | 27   | 296  |     |  |     |  |     |  |     |  |
| K6-7 och 1/11         |         |          |     | diverse prover K67/1:11 | 2014-02-04 | 17:04:58 | #27   | <LOD | 22   | 27   | 1115 |     |  |     |  |     |  |     |  |
| K6-7 och 1/11         |         |          |     | diverse prover K67/1:11 | 2014-02-04 | 17:06:17 | #28   | <LOD | 22   | 19   | 410  |     |  |     |  |     |  |     |  |
| K6-7 och 1/11         |         |          |     | diverse prover K67/1:11 | 2014-02-04 | 17:07:03 | #29   | <LOD | 21   | 20   | 281  |     |  |     |  |     |  |     |  |
| K6-7 och 1/11         |         |          |     | diverse prover K67/1:11 | 2014-02-04 | 17:08:57 | #30   | <LOD | 19   | 17   | 152  |     |  |     |  |     |  |     |  |
| K6-7 och 1/11         |         |          |     | diverse prover K67/1:11 | 2014-02-04 | 17:11:12 | #31   | <LOD | 22   | 35   | 980  |     |  |     |  |     |  |     |  |
| K6-7 och 1/11         |         |          |     | diverse prover K67/1:11 | 2014-02-04 | 17:23:07 | #32   | <LOD | 30   | 36   | 152  |     |  |     |  |     |  |     |  |
| K6-7 och 1/11         |         |          |     | diverse prover K67/1:11 | 2014-02-04 | 17:24:41 | #33   | <LOD | 21   | 19   | 795  |     |  |     |  |     |  |     |  |
| K6-7 och 1/11         |         |          |     | diverse prover K67/1:11 | 2014-02-04 | 17:25:34 | #34   | <LOD | 22   | 646  | 1491 |     |  |     |  |     |  |     |  |
| K6-7 och 1/11         |         |          |     | diverse prover K67/1:11 | 2014-02-04 | 17:33:12 | #35   | <LOD | 15   | 254  | 295  |     |  |     |  |     |  |     |  |
| K6-7 och 1/11         |         |          |     | diverse prover K67/1:11 | 2014-02-04 | 17:34:12 | #36   | <LOD | 13   | 51   | 1357 |     |  |     |  |     |  |     |  |
| K6-7 och 1/11         |         |          |     | diverse prover K67/1:11 | 2014-02-04 | 17:36:48 | #37   | <LOD | 22   | 20   | 278  |     |  |     |  |     |  |     |  |
| K6-7 och 1/11         |         |          |     | diverse prover K67/1:11 | 2014-02-04 | 17:41:20 | #38   | <LOD | 20   | 21   | 314  |     |  |     |  |     |  |     |  |
| K6-7 och 1/11         |         |          |     | diverse prover K67/1:11 | 2014-02-04 | 18:04:38 | #40   | <LOD | 23   | 37   | 207  |     |  |     |  |     |  |     |  |
| K6-7 och 1/11         |         |          |     | Stickprov K6/1:11       | 2014-02-04 | 18:06:19 | #41   | <LOD | 14   | 14   | 352  |     |  |     |  |     |  |     |  |
| K6-7 och 1/11         |         |          |     | Stickprov K6/1:11       | 2014-02-04 | 18:08:21 | #42   | <LOD | 18   | 24   | 366  |     |  |     |  |     |  |     |  |
| E1:E2                 |         |          |     | Betong E1:E2, kreosot?  |            |          |       |      |      |      |      |     |  |     |  |     |  |     |  |

|               |         |                                               |            |          |     |      |      |      |       |
|---------------|---------|-----------------------------------------------|------------|----------|-----|------|------|------|-------|
| E1:E2         |         | Betong E1:E2, kreosot?                        | 2014-02-04 | 18:09:36 | #43 | <LOD | 22   | 22   | 546   |
| K6-7 och 1/11 |         | Metallglansigt material ur morän (under lera) | 2014-02-05 | 10:33:33 | #13 | <LOD | 22   | 32   | 706   |
| K6-7 och 1/11 |         |                                               | 2014-02-05 | 10:36:05 | #14 | <LOD | 20   | 33   | 422   |
| K6-7 och 1/11 | lera    | vägg K6                                       | 2014-02-05 | 17:08:35 | #17 | <LOD | 20   | 239  | 303   |
| K6-7 och 1/11 | lera    | vägg K6                                       | 2014-02-05 | 17:09:49 | #18 | <LOD | 1634 | 101  | 22757 |
| K6-7 och 1/11 |         | diverse prover K67/1:11                       | 2014-02-05 | 17:20:01 | #19 | <LOD | 22   | 16   | 91    |
| K6-7 och 1/11 |         | diverse prover K67/1:11                       | 2014-02-05 | 17:21:15 | #20 | <LOD | 28   | 21   | 119   |
| K6-7 och 1/11 |         | diverse prover K67/1:11                       | 2014-02-05 | 17:22:32 | #21 | 88   | 457  | 907  | 4650  |
| K6-7 och 1/11 |         | diverse prover K67/1:11                       | 2014-02-05 | 17:23:46 | #22 | <LOD | 31   | 32   | 124   |
| K6-7 och 1/11 |         | diverse prover K67/1:11                       | 2014-02-05 | 17:25:13 | #23 | <LOD | 29   | 19   | 171   |
| K6-7 och 1/11 |         | diverse prover K67/1:11                       | 2014-02-05 | 17:26:30 | #24 | <LOD | 29   | 24   | 112   |
| K6-7 och 1/11 |         | diverse prover K67/1:11                       | 2014-02-05 | 17:27:14 | #25 | <LOD | 27   | 281  | 153   |
| K6-7 och 1/11 |         | diverse prover K67/1:11                       | 2014-02-05 | 17:28:56 | #26 | <LOD | 22   | <LOD | 98    |
| K6-7 och 1/11 |         | diverse prover K67/1:11                       | 2014-02-05 | 17:39:11 | #27 | <LOD | 35   | 71   | 131   |
| BK6SÖ         |         | Bottenprov av flera stickprov                 | 2014-02-05 | 17:40:21 | #28 | <LOD | 31   | 29   | 97    |
| BK6SÖ         |         | Bottenprov av flera stickprov                 | 2014-02-05 | 10:18:17 | #7  | 9    | 54   | 404  | 933   |
| div           |         | Schakt från ruta H1                           | 2014-02-06 | 10:19:52 | #8  | <LOD | 67   | 2472 | 2510  |
| div           |         | Schakt från ruta H1                           | 2014-02-06 | 10:21:50 | #9  | <LOD | 24   | 36   | 116   |
| E1:E2         |         | Betong E1/E2                                  | 2014-02-06 | 10:23:11 | #10 | <LOD | 22   | 46   | 90    |
| E1:E2         |         | Svart betong E1/E2                            | 2014-02-06 | 14:36:27 | #16 | <LOD | 23   | 41   | 56    |
| F3            | 1,5     | Provgrop F3                                   | 2014-02-06 | 14:38:43 | #17 | <LOD | 248  | 206  | 34590 |
| F3            | 0,5     | Fyll                                          | 2014-02-06 | 14:40:01 | #18 | <LOD | 24   | 61   | 224   |
| F3            | 0,5-1,5 | Fyll                                          | 2014-02-06 | 14:54:39 | #20 | <LOD | 20   | 39   | 219   |
| F2            | 2m      | grus                                          | 2014-02-06 | 14:56:55 | #21 | <LOD | 124  | 245  | 631   |
| F2            | Ytligt  | Provgrop F2                                   | 2014-02-06 | 14:58:11 | #22 | 14   | 332  | 108  | 2531  |
| F2            | 0,5     | svart mateProvgrop F2                         | 2014-02-06 | 15:06:09 | #23 | <LOD | 71   | 291  | 1698  |
| div           |         | "                                             | 2014-02-06 | 15:07:21 | #24 | <LOD | 71   | 181  | 1665  |
| F1            | 1       | svart mateProvgrop F1                         | 2014-02-06 | 15:12:19 | #25 | <LOD | 21   | 22   | 142   |
| F1            |         | lera över siltlera F1                         | 2014-02-06 | 15:13:41 | #26 | <LOD | 24   | 30   | 105   |
| F1            | 1,5     | Sile                                          | 2014-02-06 | 15:13:41 | #26 | <LOD | 24   | 30   | 105   |

Slutsatser: I ruta K6-7 stor variation, morän fläckvis förorenad. Metallglänsande mineral/prickar i moränen ger höga utslag.

Grå betong från kreosotdoftande område till analys. Sortering av Schakt och kontroll Toverumsmassor, se särskild redovisning.



# Gusum sanering etapp 2a

## XRF-mätning v 7, 2014

| Akuttox/FA            |                           | 100        |                                  |            |              |       |      |       |        |        |  |  |
|-----------------------|---------------------------|------------|----------------------------------|------------|--------------|-------|------|-------|--------|--------|--|--|
| MKM                   |                           | 25         |                                  |            |              |       |      |       |        |        |  |  |
| Korrigerad MKM 80% TS |                           | 20         |                                  |            |              |       |      |       |        |        |  |  |
| Provnr                | djup m u my               | jordart mm | Anmärkn                          | datum      | tid          | XRFnr | As   | Pb    | Cu     | Zn     |  |  |
| K9                    |                           |            | Material ur träavloppsledning K9 | 2014-02-10 | 13:45:51 #5  |       | 2369 | 62035 | 120231 | 12063  |  |  |
| E1/E2                 | betong                    |            | Gulfärgad (ur smältugn?)         | 2014-02-11 | 08:21:32 #5  |       | <LOD | 13    | 16     | 121    |  |  |
| E1/E2                 | betong                    |            | Grön fläck                       | 2014-02-11 | 08:23:08 #6  |       | <LOD | 772   | 201831 | 55213  |  |  |
| E1/E2                 | betong                    |            | Grön fläck                       | 2014-02-11 | 08:24:33 #7  |       | <LOD | 68    | 203376 | 238194 |  |  |
| E1/E2                 | betong                    |            | renare yta på grönfläckig betong | 2014-02-11 | 08:25:56 #8  |       | <LOD | 51    | 77395  | 16830  |  |  |
| E1/E2                 | betong                    |            | Betongblock utan gröna fläckar   | 2014-02-11 | 08:27:07 #9  |       | <LOD | 29    | 5380   | 2441   |  |  |
| E1/E2                 | betong                    |            | Betongblock utan gröna fläckar   | 2014-02-11 | 08:29:24 #10 |       | <LOD | 98    | 293    | 1096   |  |  |
| E1/E2                 | betong                    |            | Bröttyta betong                  | 2014-02-11 | 08:30:47 #11 |       | <LOD | 17    | 26     | 101    |  |  |
| E1/E2                 |                           |            |                                  | 2014-02-11 | 09:00:43 #13 |       | <LOD | 91    | 456    | 4530   |  |  |
| E1/E2                 | fint slam med grövre grus |            | Svarta massor E1/E2              | 2014-02-11 | 10:25:36 #15 |       | <LOD | 74    | 530    | 4690   |  |  |
| T0211 (1:11)          | blandat ljus SaFy         |            |                                  | 2014-02-11 | 13:49:08 #21 |       | <LOD | 143   | 1732   | 3048   |  |  |
| T0211 (1:11)          | blandat ljus SaFy         |            |                                  | 2014-02-11 | 13:53:45 #22 | 17    | <LOD | 129   | 1379   | 6479   |  |  |
| T0211 (1:11)          | blandat ljus SaFy         |            |                                  | 2014-02-11 | 13:55:30 #23 |       | <LOD | 398   | 10828  | 4385   |  |  |
| T0211 (2:39)          | ljusSaF                   |            |                                  | 2014-02-11 | 13:57:44 #24 |       | <LOD | 18    | 13     | 55     |  |  |
| T0211 (2:39)          | ljusSaF                   |            |                                  | 2014-02-11 | 13:59:07 #25 |       | <LOD | 50    | 183    | 448    |  |  |
| T0211 (2:39)          | ljusSaF                   |            |                                  | 2014-02-11 | 14:00:51 #26 |       | <LOD | 39    | 153    | 541    |  |  |
| T0211 (2:30)          | mörkSaF                   |            |                                  | 2014-02-11 | 14:02:30 #27 |       | <LOD | 197   | 2569   | 3947   |  |  |
| T0211 (2:30)          | mörkSaF                   |            |                                  | 2014-02-11 | 14:04:45 #28 |       | <LOD | 234   | 6088   | 6791   |  |  |
| T0211 (2:30)          | mörkSaF                   |            |                                  | 2014-02-11 | 14:06:03 #29 |       | <LOD | 224   | 4331   | 5685   |  |  |
| BK6SÖ                 |                           |            |                                  | 2014-02-12 | 08:45:56 #12 |       | <LOD | 29    | 19     | 78     |  |  |
| BK6SÖ                 |                           |            |                                  | 2014-02-12 | 08:47:12 #13 |       | <LOD | 35    | 54     | 117    |  |  |
| BK6/K5                |                           |            |                                  | 2014-02-12 | 08:50:49 #14 |       | <LOD | 27    | 36     | 107    |  |  |
| T0213                 |                           |            | (se toverumsprotokoll            | 2014-02-13 | 08:03:37 #5  |       | <LOD | 63    | 113    | 700    |  |  |
| T0213                 |                           |            | (se toverumsprotokoll            | 2014-02-13 | 08:08:15 #6  |       | <LOD | 48    | 121    | 622    |  |  |
| T0213                 |                           |            | (se toverumsprotokoll            | 2014-02-13 | 08:10:09 #7  |       | <LOD | 72    | 155    | 1513   |  |  |
| T0213                 |                           |            | (se toverumsprotokoll            | 2014-02-13 | 10:13:12 #9  |       | <LOD | 61    | 722    | 1190   |  |  |
| T0213                 |                           |            | (se toverumsprotokoll            | 2014-02-13 | 10:14:31 #10 |       | <LOD | 135   | 2332   | 2809   |  |  |
| K5/6 Ö                | lera                      |            | Bottenprov                       | 2014-02-13 | 10:32:12 #11 |       | <LOD | 29    | 24     | 90     |  |  |
| K5/6 Ö                | lera                      |            | Bottenprov                       | 2014-02-13 | 10:33:39 #12 |       | <LOD | 27    | 28     | 108    |  |  |
| Betong E1             | betong                    |            | Betong med gröna fläckar         | 2014-02-13 | 13:19:59 #15 |       | <LOD | 35    | 4299   | 3744   |  |  |
| Betong E1             | betong                    |            | Betong med gröna fläckar         | 2014-02-13 | 13:20:56 #16 |       | <LOD | 158   | 8376   | 6468   |  |  |

|    |           |      |                                 |            |              |      |     |    |      |
|----|-----------|------|---------------------------------|------------|--------------|------|-----|----|------|
| F3 | 0,4-0,6 m | SaSi | Ijust material                  | 2014-02-13 | 14:42:13 #18 | <LOD | 26  | 16 | 186  |
| F3 | 0,4-0,6 m | SaSi | Ijust material                  | 2014-02-13 | 14:43:26 #19 | <LOD | 29  | 51 | 317  |
| F3 | 0,4-0,6 m | SaSi | Ijust material                  | 2014-02-13 | 14:44:39 #20 | <LOD | 26  | 27 | 175  |
| F3 | 0,4-0,6 m | SaSi | Ijust material                  | 2014-02-13 | 15:38:37 #21 | <LOD | 18  | 27 | 158  |
| F3 | 0,4-0,6 m | SaSi | Ijust material                  | 2014-02-13 | 15:39:52 #22 | <LOD | 24  | 16 | 208  |
| F3 | 0,4-0,6 m | SaSi | Ijust material med svarta stråk | 2014-02-13 | 15:41:09 #23 | <LOD | 54  | 25 | 962  |
| F3 | 0,4-0,6 m | SaSi | Ijust material                  | 2014-02-13 | 15:42:23 #24 | <LOD | 201 | 68 | 1389 |

Slutsatser: Grönfläckig betong sorteras till RGS90.

## XRF-mätning v 8, 2014

|                       |                                            |                   |            |          |       |      |      |       |        |  |
|-----------------------|--------------------------------------------|-------------------|------------|----------|-------|------|------|-------|--------|--|
| Akuttox/FA            | 100                                        |                   |            |          |       |      |      |       |        |  |
| MKM                   | 25                                         |                   |            |          |       |      |      |       |        |  |
| Korrigerad MKM 80% TS | 20                                         |                   |            |          |       |      |      |       |        |  |
| Prov                  | fljup m u mjordart mm                      | Anmärkn           | datum      | tid      | XRFnr | As   | Pb   | Cu    | Zn     |  |
| betong C1/2:28/2:29   | betong i två lager, gröんfläckig och renare |                   | 2014-02-17 | 09:48:53 | #5    | <LOD | 1055 | 22524 | 108835 |  |
| betong C1/2:28/2:29   | betong i två lager, grönfläckig och renare |                   | 2014-02-17 | 09:50:47 | #6    | 11   | 119  | 656   | 1948   |  |
| betong C1/2:28/2:29   | betong i två lager, grönfläckig och renare |                   | 2014-02-17 | 09:52:45 | #7    | 10   | 144  | 372   | 1404   |  |
| betong C1/2:28/2:29   | betong i två lager, grönfläckig och renare |                   | 2014-02-17 | 09:53:55 | #8    | 25   | 641  | 369   | 1537   |  |
| betong C1/2:28/2:29   | betong i två lager, grönfläckig och renare |                   | 2014-02-17 | 09:55:02 | #9    | <LOD | 18   | 52    | 377    |  |
| Hög E1/E2             | PID: 6,2                                   |                   | 2014-02-17 | 10:13:11 | #10   | <LOD | 20   | 37    | 1087   |  |
| Hög E1/E2             |                                            |                   | 2014-02-17 | 10:31:27 | #11   | <LOD | 20   | 74    | 773    |  |
| Hög E1/E2             |                                            |                   | 2014-02-17 | 11:25:27 | #12   | <LOD | 70   | 979   | 1909   |  |
| Hög E1/E2             |                                            |                   | 2014-02-17 | 11:26:39 | #13   | <LOD | 128  | 1370  | 2830   |  |
| Hög E1/E2             |                                            |                   | 2014-02-17 | 11:28:05 | #14   | 13   | 72   | 808   | 1693   |  |
| Hög E1/E2             |                                            |                   | 2014-02-17 | 14:16:18 | #15   | <LOD | 79   | 827   | 1960   |  |
| Tegel E1/E2           |                                            |                   | 2014-02-17 | 14:18:03 | #16   | <LOD | 30   | 153   | 364    |  |
| Tegel E1/E2           |                                            |                   | 2014-02-17 | 14:24:30 | #17   | <LOD | 31   | 61    | 223    |  |
| BK5                   | morän                                      | under varvig lera | 2014-02-17 | 15:14:34 | #18   | <LOD | 28   | 24    | 497    |  |
| BK5                   | morän                                      | under varvig lera | 2014-02-17 | 15:19:28 | #23   | <LOD | 24   | 26    | 509    |  |
| BK5                   | varvig lera                                | under lera        | 2014-02-17 | 15:21:35 | #24   | <LOD | 16   | 13    | 436    |  |
| BK5                   | lera                                       |                   | 2014-02-17 | 15:22:54 | #25   | <LOD | 22   | 30    | 80     |  |
| BK5                   | lera                                       |                   | 2014-02-17 | 15:26:24 | #26   | <LOD | 24   | 57    | 132    |  |
| T0218                 |                                            |                   | 2014-02-18 | 08:27:04 | #22   | <LOD | 49   | 364   | 836    |  |
| T0218                 |                                            |                   | 2014-02-18 | 08:28:47 | #23   | <LOD | 114  | 867   | 1482   |  |
| T0218                 |                                            |                   | 2014-02-18 | 08:30:12 | #24   | <LOD | 28   | 151   | 399    |  |
| Diverse betong        |                                            |                   | 2014-02-18 | 08:32:56 | #26   | <LOD | 36   | 94    | 197    |  |
| Diverse betong        |                                            |                   | 2014-02-18 | 08:34:14 | #27   | <LOD | 22   | 97    | 210    |  |
| T0218                 |                                            |                   | 2014-02-18 | 15:16:29 | #30   | <LOD | 38   | 937   | 286    |  |
| T0218                 |                                            |                   | 2014-02-18 | 15:18:52 | #31   | <LOD | 31   | 196   | 371    |  |
| T0218                 |                                            |                   | 2014-02-18 | 15:20:31 | #32   | <LOD | 66   | 539   | 496    |  |
| Sågspån H3            |                                            |                   | 2014-02-18 | 15:22:05 | #33   | <LOD | 49   | 267   | 1767   |  |
| BH3 norr/väst         | lera                                       | grå               | 2014-02-18 | 18:23:21 | #34   | <LOD | 30   | 32    | 136    |  |

|                             |      |      |            |          |     |      |     |      |      |
|-----------------------------|------|------|------------|----------|-----|------|-----|------|------|
| BH3 mitt/väst               | lera | brun | 2014-02-18 | 18:26:32 | #35 | <LOD | 25  | 29   | 125  |
| BH3                         | lera | brun | 2014-02-18 | 18:29:21 | #36 | <LOD | 29  | 28   | 119  |
| T0219                       |      |      | 2014-02-19 | 15:11:13 | #11 | <LOD | 87  | 346  | 2405 |
| T0219                       |      |      | 2014-02-19 | 15:12:29 | #12 | <LOD | 89  | 1738 | 1728 |
| T0219                       |      |      | 2014-02-19 | 15:13:53 | #13 | <LOD | 115 | 2166 | 2455 |
| T0219                       |      |      | 2014-02-19 | 15:15:13 | #14 | <LOD | 85  | 304  | 4511 |
| T0219                       |      |      | 2014-02-19 | 15:16:34 | #15 | <LOD | 101 | 1949 | 2149 |
| T0219                       |      |      | 2014-02-19 | 15:19:07 | #16 | <LOD | 68  | 1073 | 1237 |
| T0219                       |      |      | 2014-02-19 | 15:20:41 | #17 | <LOD | 30  | 168  | 301  |
| T0219                       |      |      | 2014-02-19 | 15:22:11 | #18 | <LOD | 67  | 667  | 961  |
| T0219                       |      |      | 2014-02-19 | 15:23:30 | #19 | <LOD | 115 | 1971 | 1679 |
| T0219                       |      |      | 2014-02-19 | 15:24:54 | #20 | <LOD | 18  | 46   | 127  |
| T0219                       |      |      | 2014-02-19 | 15:26:20 | #21 | <LOD | 22  | 36   | 124  |
| T0219                       |      |      | 2014-02-19 | 15:27:31 | #22 | <LOD | 27  | 59   | 235  |
| T0219                       |      |      | 2014-02-19 | 15:28:43 | #23 | <LOD | 29  | 111  | 259  |
| T0219                       |      |      | 2014-02-19 | 15:29:58 | #24 | <LOD | 28  | 120  | 359  |
| T0219                       |      |      | 2014-02-19 | 15:31:07 | #25 | <LOD | 57  | 620  | 1108 |
| prover på mark - slutprover | lera |      | 2014-02-19 | 16:48:32 | #27 | <LOD | 36  | 78   | 365  |
| prover på mark - slutprover | H3   |      | 2014-02-19 | 16:50:04 | #28 | <LOD | 22  | 87   | 302  |
| prover på mark - slutprover | H3   |      | 2014-02-19 | 16:52:09 | #29 | <LOD | 37  | 151  | 612  |
| prover på mark - slutprover | H3   |      | 2014-02-19 | 16:53:42 | #30 | <LOD | 20  | <LOD | 257  |
| prover på mark - slutprover | H3   |      | 2014-02-19 | 16:54:27 | #31 | <LOD | 18  | 450  | 198  |
| prover på mark - slutprover | H3   |      | 2014-02-19 | 16:55:33 | #32 | <LOD | 23  | 18   | 116  |
| prover på mark - slutprover | H3   |      | 2014-02-19 | 16:56:53 | #33 | <LOD | 33  | 38   | 137  |
| prover på mark - slutprover | H3   |      | 2014-02-19 | 16:58:30 | #34 | <LOD | 28  | 31   | 173  |
| prover på mark - slutprover | H3   |      | 2014-02-19 | 17:06:05 | #35 | <LOD | 22  | 18   | 100  |
| prover på mark - slutprover | H3   |      | 2014-02-19 | 17:09:14 | #36 | <LOD | 31  | 23   | 127  |
| prover på mark - slutprover | H3   |      | 2014-02-19 | 17:33:01 | #37 | <LOD | 36  | 25   | 118  |
| BH3                         | 2-3  | lera | 2014-02-19 | 17:35:44 | #38 | <LOD | 20  | 24   | 96   |
| BH3                         | 2-3  | lera | 2014-02-19 | 17:36:54 | #39 | <LOD | 32  | 18   | 82   |
| BH3                         | 2-3  | lera | 2014-02-19 | 17:38:13 | #40 | <LOD | 30  | 24   | 126  |
| BH3                         | 2-3  | lera | 2014-02-19 | 17:39:32 | #41 | <LOD | 31  | 57   | 164  |
| BE2 Ö                       | 2-3  | lera | 2014-02-20 | 10:37:49 | #4  | <LOD | 21  | 19   | 143  |
| mark F3                     |      | grLe | 2014-02-20 | 10:39:04 | #5  | <LOD | 21  | 14   | 198  |

|         |            |          |     |      |      |      |      |
|---------|------------|----------|-----|------|------|------|------|
| mark F3 | 2014-02-20 | 10:40:55 | #6  | <LOD | 21   | 28   | 158  |
| mark F3 | 2014-02-20 | 10:42:26 | #7  | <LOD | 18.4 | 22   | 144  |
| mark F3 | 2014-02-20 | 10:45:13 | #8  | <LOD | 14.4 | <LOD | 44   |
| mark F3 | 2014-02-20 | 10:46:20 | #9  | <LOD | 17.0 | 24   | 45   |
| mark F3 | 2014-02-20 | 11:23:31 | #10 | <LOD | 29   | 40   | 83   |
| mark F3 | 2014-02-20 | 11:24:51 | #11 | <LOD | 20   | 23   | 79   |
| mark F3 | 2014-02-20 | 11:26:10 | #12 | <LOD | 24   | 31   | 79   |
| F3      | 2014-02-20 | 11:28:04 | #13 | <LOD | 15.3 | 35   | 63   |
| F3      | 2014-02-20 | 11:29:46 | #14 | <LOD | 7.2  | <LOD | 28   |
| F3      | 2014-02-20 | 11:31:10 | #15 | <LOD | 20   | 18   | 51   |
| F3      | 2014-02-20 | 11:32:22 | #16 | <LOD | 17   | 28   | 79   |
| F3      | 2014-02-20 | 11:33:56 | #17 | <LOD | 32   | 25   | 61   |
| F2/F3   | 2014-02-20 | 11:35:36 | #18 | <LOD | 26   | 38   | 92   |
| F3 N    | 2014-02-20 | 11:36:59 | #19 | <LOD | 24   | 30   | 75   |
| Tov div | 2014-02-20 | 11:38:19 | #20 | <LOD | 21   | 34   | 85   |
| T0220   | 2014-02-20 | 11:43:39 | #21 | <LOD | 96   | 1764 | 2063 |
| T0220   | 2014-02-20 | 15:15:45 | #23 | <LOD | 111  | 1647 | 1853 |
| T0220   | 2014-02-20 | 15:17:11 | #24 | <LOD | 138  | 2309 | 2292 |
| T       | 2014-02-20 | 15:17:26 | #25 | <LOD | 149  | 2980 | 3564 |
| T0220   | 2014-02-20 | 15:18:45 | #26 | <LOD | 110  | 1374 | 2329 |
| T0220   | 2014-02-20 | 15:20:00 | #27 | <LOD | 54   | 1080 | 980  |
| T0220   | 2014-02-20 | 15:21:15 | #28 | <LOD | 287  | 7206 | 6463 |
| T       | 2014-02-20 | 15:22:28 | #29 | <LOD | 210  | 2997 | 4251 |
| T       | 2014-02-20 | 15:23:41 | #30 | 9    | 117  | 1432 | 2317 |

Slutsatser: Varvig lera i BH3 tills med underliggande morän delvis höga halter, Prickar med glänsande mineral

Gusum sanering etapp 2a  
XRF-mätning v 9, 2014

| Akuttox/FA                   |          | 100 |         | 25 |         | 400        |          | 200   |      | 500  |      |       |
|------------------------------|----------|-----|---------|----|---------|------------|----------|-------|------|------|------|-------|
| MKM                          |          | 25  |         | 20 |         | 330        |          | 170   |      | 420  |      |       |
| Korrigerad MKM 80% TS        |          |     |         |    |         |            |          |       |      |      |      |       |
| Prov                         | djup m u | mi  | jordart | mm | Anmärkn | datum      | tid      | XRFnr | As   | Pb   | Cu   | Zn    |
| T0224                        |          |     |         |    |         | 2014-02-24 | 10:35:50 | #7    | 19   | 209  | 1137 | 11644 |
| T0224                        |          |     |         |    |         | 2014-02-24 | 10:37:20 | #8    | 12   | 95   | 432  | 2824  |
| T0224                        |          |     |         |    |         | 2014-02-24 | 10:38:49 | #9    | <LOD | 63   | 253  | 1660  |
| Mätningar på mark H3/H2 + F3 |          |     |         |    |         | 2014-02-24 | 10:46:40 | #10   | <LOD | 29   | 35   | 1791  |
| Mätningar på mark H3/H2 + F3 |          |     |         |    |         | 2014-02-24 | 10:47:54 | #11   | <LOD | 33   | 27   | 557   |
| Mätningar på mark H3/H2 + F3 |          |     |         |    |         | 2014-02-24 | 10:49:18 | #12   | <LOD | 34   | 41   | 138   |
| Mätningar på mark H3/H2 + F3 |          |     |         |    |         | 2014-02-24 | 10:50:55 | #13   | <LOD | 30   | 28   | 160   |
| Mätningar på mark H3/H2 + F3 |          |     |         |    |         | 2014-02-24 | 10:52:53 | #14   | <LOD | 28   | 28   | 149   |
| Mätningar på mark H3/H2 + F3 |          |     |         |    |         | 2014-02-24 | 10:54:54 | #15   | <LOD | 36   | 36   | 193   |
| Mätningar på mark H3/H2 + F3 |          |     |         |    |         | 2014-02-24 | 10:58:03 | #16   | <LOD | 27   | 22   | 137   |
| Mätningar på mark H3/H2 + F3 |          |     |         |    |         | 2014-02-24 | 10:59:56 | #17   | <LOD | 21   | 22   | 94    |
| Mätningar på mark H3/H2 + F3 |          |     |         |    |         | 2014-02-24 | 11:01:45 | #18   | <LOD | 39   | 37   | 130   |
| Mätningar på mark H3/H2 + F3 |          |     |         |    |         | 2014-02-24 | 11:03:26 | #19   | <LOD | 27   | 56   | 332   |
| Mätningar på mark H3/H2 + F3 |          |     |         |    |         | 2014-02-24 | 11:04:42 | #20   | <LOD | 37   | 32   | 165   |
| Mätningar på mark H3/H2 + F3 |          |     |         |    |         | 2014-02-24 | 11:06:54 | #21   | <LOD | 20   | 28   | 117   |
| Mätningar på mark H3/H2 + F3 |          |     |         |    |         | 2014-02-24 | 11:11:36 | #22   | <LOD | 28   | 37   | 127   |
| Mätningar på mark H3/H2 + F3 |          |     |         |    |         | 2014-02-24 | 11:15:08 | #23   | <LOD | 19   | 34   | 248   |
| Mätningar på mark H3/H2 + F3 |          |     |         |    |         | 2014-02-24 | 11:16:55 | #24   | <LOD | 21   | 26   | 147   |
| Mätningar på mark H3/H2 + F3 |          |     |         |    |         | 2014-02-24 | 11:20:42 | #25   | <LOD | 19   | 41   | 185   |
| Mätningar på mark H3/H2 + F3 |          |     |         |    |         | 2014-02-24 | 11:22:11 | #26   | <LOD | 31   | 41   | 161   |
| Mätningar på mark H3/H2 + F3 |          |     |         |    |         | 2014-02-24 | 11:23:57 | #27   | <LOD | 23   | 23   | 122   |
| Mätningar på mark H3/H2 + F3 |          |     |         |    |         | 2014-02-24 | 11:25:59 | #28   | 5.4  | 13.9 | 31   | 143   |
| Mätningar på mark H3/H2 + F3 |          |     |         |    |         | 2014-02-24 | 11:27:09 | #29   | 10   | 83   | 462  | 870   |
| Mätningar på mark H3/H2 + F3 |          |     |         |    |         | 2014-02-24 | 11:30:55 | #30   | <LOD | 22   | 38   | 117   |
| Mätningar på mark H3/H2 + F3 |          |     |         |    |         | 2014-02-24 | 11:34:04 | #31   | <LOD | 20   | 22   | 92    |
| Mätningar på mark H3/H2 + F3 |          |     |         |    |         | 2014-02-24 | 11:36:04 | #32   | <LOD | 36   | 93   | 296   |
| Mätningar på mark H3/H2 + F3 |          |     |         |    |         | 2014-02-24 | 11:37:47 | #33   | <LOD | 28   | 36   | 106   |

|                              |            |          |     |      |      |      |     |
|------------------------------|------------|----------|-----|------|------|------|-----|
| Mätningar på mark H3/H2 + F3 | 2014-02-24 | 11:47:13 | #34 | <LOD | 15   | 28   | 92  |
| Mätningar på mark H3/H2 + F3 | 2014-02-24 | 11:48:53 | #35 | <LOD | 20   | 52   | 117 |
| Mätningar på mark H3/H2 + F3 | 2014-02-24 | 11:57:26 | #36 | <LOD | <LOD | <LOD | 85  |
| Mätningar på mark H3/H2 + F3 | 2014-02-24 | 11:58:42 | #37 | <LOD | 12.2 | <LOD | 209 |
| Mätningar på mark H3/H2 + F3 | 2014-02-24 | 12:03:13 | #38 |      |      |      |     |
| BH3/2 2 m lera               | 2014-02-24 | 13:57:06 | #40 | <LOD | 22   | 35   | 113 |
| BH3/2 2 m lera               | 2014-02-24 | 13:58:42 | #41 | 5.9  | 18   | 29   | 88  |
| BH3/2 2 m lera               | 2014-02-24 | 14:00:01 | #42 | <LOD | 21   | 36   | 98  |
| H3/2 Ö                       | 2014-02-24 | 14:01:31 | #43 | <LOD | 30   | 32   | 131 |
| H3/2 Ö                       | 2014-02-24 | 14:03:32 | #44 | <LOD | 24   | 26   | 84  |
| H3/2 Ö                       | 2014-02-24 | 14:05:20 | #45 | <LOD | 30   | 22   | 119 |
| H3/2 V                       | 2014-02-24 | 14:07:07 | #46 | <LOD | 28   | 27   | 116 |
| H3/2 V                       | 2014-02-24 | 14:08:31 | #47 | <LOD | 17   | 39   | 76  |
| VH2                          | 2014-02-24 | 14:10:10 | #48 | <LOD | 16.3 | 18   | 67  |
| VH2                          | 2014-02-24 | 14:11:30 | #49 | <LOD | 25   | 35   | 345 |
| F2Ö                          | 2014-02-24 | 17:31:02 | #53 | <LOD | 24   | 59   | 368 |
| F2Ö                          | 2014-02-24 | 17:34:28 | #54 | <LOD | 21   | 444  | 254 |
| 02:39                        | 2014-02-24 | 17:35:52 | #55 | <LOD | 18   | 44   | 149 |
| 02:34                        | 2014-02-24 | 17:37:05 | #56 | <LOD | 39   | 29   | 132 |
| 02:33                        | 2014-02-24 | 17:38:20 | #57 | <LOD | 32   | 54   | 120 |
| B2:33-34/2:38-39 SaF         | 2014-02-25 | 07:16:58 | #5  | <LOD | 23   | 32   | 84  |
| B2:33-34/2:38-39 SaF         | 2014-02-25 | 07:19:44 | #6  | <LOD | 17   | 28   | 79  |
| B2:33-34/2:38-39 SaF         | 2014-02-25 | 07:21:21 | #7  | <LOD | 12   | 15   | 64  |
| T0225                        | 2014-02-25 | 07:39:39 | #8  | <LOD | 28   | 45   | 80  |
| T0225                        | 2014-02-25 | 07:40:56 | #9  | <LOD | 22   | 32   | 93  |
| T0225                        | 2014-02-25 | 07:42:19 | #10 | <LOD | 26   | 31   | 101 |
| Slutprov H2 S + H1           | 2014-02-25 | 08:34:58 | #12 | <LOD | 37   | 33   | 123 |
| Slutprov H2 S + H1           | 2014-02-25 | 08:36:46 | #13 | <LOD | 31   | 22   | 100 |
| Slutprov H2 S + H1           | 2014-02-25 | 08:38:27 | #14 | <LOD | 29   | 46   | 130 |
| Slutprov H2 S + H1           | 2014-02-25 | 08:40:18 | #15 | <LOD | 28   | 29   | 132 |
| Slutprov H2 S + H1           | 2014-02-25 | 08:42:32 | #16 | <LOD | 20   | 23   | 109 |
| Slutprov H2 S + H1           | 2014-02-25 | 08:45:08 | #17 | <LOD | 24   | 74   | 181 |
| Slutprov H2 S + H1           | 2014-02-25 | 08:47:16 | #18 | <LOD | 20   | 22   | 81  |

|                           |            |          |     |      |     |      |      |
|---------------------------|------------|----------|-----|------|-----|------|------|
| Slutprov H2 S + H1        | 2014-02-25 | 08:48:56 | #19 | <LOD | 27  | 34   | 134  |
| Slutprov H2 S + H1        | 2014-02-25 | 08:50:57 | #20 | <LOD | 29  | 33   | 120  |
| Slutprov H2 S + H1        | 2014-02-25 | 08:53:10 | #21 | <LOD | 28  | 51   | 274  |
| Slutprov H2 S + H1        | 2014-02-25 | 08:54:54 | #22 | <LOD | 21  | 111  | 170  |
| Diverse bottenprov G4 H1S | 2014-02-25 | 09:07:17 | #23 |      |     |      |      |
| Diverse bottenprov G4 H1S | 2014-02-25 | 11:29:39 | #24 | <LOD | 59  | 88   | 1168 |
| Diverse bottenprov G4 H1S | 2014-02-25 | 11:31:07 | #25 | <LOD | 72  | 179  | 1542 |
| Diverse bottenprov G4 H1S | 2014-02-25 | 12:01:50 | #26 | <LOD | 195 | 953  | 4023 |
| Diverse bottenprov G4 H1S | 2014-02-25 | 12:03:23 | #27 | <LOD | 300 | 2936 | 7167 |
| Diverse bottenprov G4 H1S | 2014-02-25 | 12:18:57 | #28 |      |     |      |      |
| Diverse bottenprov G4 H1S | 2014-02-25 | 14:32:55 | #29 | <LOD | 29  | 30   | 110  |
| Diverse bottenprov G4 H1S | 2014-02-25 | 14:34:14 | #30 | <LOD | 387 | 2058 | 7910 |
| Diverse bottenprov G4 H1S | 2014-02-25 | 14:35:27 | #31 | <LOD | 18  | 58   | 175  |
| Diverse bottenprov G4 H1S | 2014-02-25 | 14:35:49 | #32 | <LOD | 20  | 475  | 201  |
| Diverse bottenprov G4 H1S | 2014-02-25 | 14:37:03 | #33 | <LOD | 21  | 82   | 138  |
| Diverse bottenprov G4 H1S | 2014-02-25 | 14:38:16 | #34 | <LOD | 27  | 36   | 128  |
| Diverse bottenprov G4 H1S | 2014-02-25 | 14:39:28 | #35 | <LOD | 20  | 17   | 347  |
| Diverse bottenprov G4 H1S | 2014-02-25 | 14:40:45 | #36 | <LOD | 23  | 76   | 284  |
| Diverse bottenprov G4 H1S | 2014-02-25 | 14:42:11 | #37 | <LOD | 33  | 156  | 1013 |
| Diverse bottenprov G4 H1S | 2014-02-25 | 14:43:44 | #38 | <LOD | 23  | 32   | 463  |
| Diverse bottenprov G4 H1S | 2014-02-25 | 14:49:48 | #39 | <LOD | 24  | 33   | 180  |
| BG4                       | 2014-02-25 | 14:51:08 | #40 | <LOD | 20  | 77   | 111  |
| BG4                       | 2014-02-25 | 14:54:55 | #41 | <LOD | 20  | 31   | 246  |
|                           | 2014-02-25 | 14:56:01 | #42 | <LOD | 19  | 22   | 144  |
|                           | 2014-02-25 | 14:59:27 | #43 | <LOD | 50  | 322  | 754  |
| Betong VH1+VG4            | 2014-02-25 | 15:00:51 | #44 | <LOD | 30  | 657  | 393  |
| Betong VH1+VG4            | 2014-02-25 | 15:02:15 | #45 | <LOD | 174 | 1402 | 3716 |
| Betong VH1+VG4            | 2014-02-25 | 15:04:43 | #46 | <LOD | 24  | 332  | 223  |
| BH1S                      | 2014-02-25 | 15:15:20 | #47 | <LOD | 27  | 22   | 272  |
| BH1S                      | 2014-02-25 | 15:16:49 | #48 | <LOD | 13  | 46   | 78   |
|                           | 2014-02-26 | 07:41:26 | #6  | <LOD | 19  | 30   | 89   |
|                           | 2014-02-26 | 07:42:49 | #7  | <LOD | 21  | 21   | 122  |
|                           | 2014-02-26 | 07:44:10 | #8  | <LOD | 19  | 21   | 119  |

slutprov til



|         |            |            |          |      |      |      |      |
|---------|------------|------------|----------|------|------|------|------|
|         | 2014-02-26 | 07:45:26   | #9       | <LOD | 19   | 31   | 519  |
|         | 2014-02-26 | 07:47:17   | #10      | <LOD | 17   | 24   | 475  |
|         | 2014-02-26 | 07:47:49   | #11      | <LOD | 20   | 357  | 214  |
|         | 2014-02-26 | 07:48:28   | #12      | <LOD | 19   | 35   | 181  |
|         | 2014-02-26 | 07:49:46   | #13      | <LOD | 34   | 33   | 946  |
|         | 2014-02-26 | 07:51:04   | #14      | <LOD | 27   | 32   | 351  |
|         | 2014-02-26 | 07:52:22   | #15      | <LOD | 21   | 22   | 117  |
|         | 2014-02-26 | 07:53:53   | #16      | <LOD | 19   | 25   | 175  |
|         | 2014-02-26 | 07:56:00   | #17      | <LOD | 24   | 36   | 253  |
|         | 2014-02-26 | 07:57:18   | #18      | <LOD | 16.8 | 22   | 287  |
|         | 2014-02-26 | 08:05:42   | #19      | <LOD | 19   | <LOD | 166  |
|         | 2014-02-26 | 08:06:54   | #20      | <LOD | 22   | 35   | 253  |
|         | 2014-02-26 | 08:07:53   | #22      | <LOD | 15.6 | 28   | 144  |
|         | 2014-02-26 | 09:13:14   | #23      |      |      |      |      |
| T0226   | 2014-02-26 | 11:12:11   | #24      | <LOD | 31   | 708  | 467  |
| T0226   | 2014-02-26 | 11:17:29   | #25      | <LOD | 22   | 93   | 125  |
| T0226   | 2014-02-26 | 11:18:30   | #26      | <LOD | 23   | 59   | 225  |
| T0226   | 2014-02-26 | 11:19:45   | #27      | <LOD | 30   | 89   | 257  |
| 2:36-37 | Diverse mǎ | 2014-02-26 | 11:26:48 | <LOD | 17   | 26   | 161  |
| 2:36-38 | Diverse mǎ | 2014-02-26 | 11:27:15 | <LOD | 22   | 339  | 254  |
| 2:36-39 | Diverse mǎ | 2014-02-26 | 11:28:12 | <LOD | 28   | 21   | 171  |
| 2:36-40 | Diverse mǎ | 2014-02-26 | 11:29:02 | <LOD | 27   | 28   | 210  |
| 2:36-41 | Diverse mǎ | 2014-02-26 | 11:29:50 | <LOD | 22   | 18   | 157  |
| 2:36-42 | Diverse mǎ | 2014-02-26 | 11:31:27 | <LOD | 15,5 | 20   | 149  |
| 2:36-43 | Diverse mǎ | 2014-02-26 | 11:32:17 | <LOD | 20   | 27   | 208  |
| 2:36-44 | Diverse mǎ | 2014-02-26 | 11:33:21 | <LOD | 18   | 24   | 155  |
| 2:36-45 | Diverse mǎ | 2014-02-26 | 11:34:16 | <LOD | 24   | 28   | 165  |
| 2:36-46 | Diverse mǎ | 2014-02-26 | 11:35:04 | <LOD | 22   | 59   | 393  |
| 2:36-47 | Diverse mǎ | 2014-02-26 | 11:35:56 | <LOD | 15.5 | 27   | 136  |
| 2:36-48 | Diverse mǎ | 2014-02-26 | 11:36:54 | <LOD | 25   | 39   | 280  |
| T0226   | 2014-02-26 | 11:39:24   | #40      | <LOD | 75   | 1086 | 4156 |
| T0226   | 2014-02-26 | 11:40:36   | #41      | 12   | 73   | 1257 | 3936 |
| T0226   | 2014-02-26 | 12:00:30   | #42      | <LOD | 23   | 40   | 107  |

|                              |            |          |     |      |      |      |      |
|------------------------------|------------|----------|-----|------|------|------|------|
| T0226                        | 2014-02-26 | 12:02:01 | #43 | <LOD | 24   | 60   | 153  |
| T0226                        | 2014-02-26 | 12:38:37 | #44 |      |      |      |      |
| T0226                        | 2014-02-26 | 13:02:45 | #45 | <LOD | 25   | 50   | 366  |
| T0226                        | 2014-02-26 | 13:03:48 | #46 | <LOD | 47   | 122  | 995  |
| T0226                        | 2014-02-26 | 13:04:55 | #47 | <LOD | 54   | 899  | 1301 |
| T0226                        | 2014-02-26 | 13:06:01 | #48 | <LOD | 32   | 104  | 487  |
| T0226                        | 2014-02-26 | 13:07:09 | #49 | <LOD | 30   | 77   | 512  |
| T0226                        | 2014-02-26 | 13:08:07 | #50 | <LOD | 30   | 161  | 497  |
| T0226                        | 2014-02-26 | 13:09:18 | #51 | <LOD | 69   | 183  | 909  |
| T0226                        | 2014-02-26 | 13:10:17 | #52 | <LOD | 44   | 96   | 593  |
| T0226                        | 2014-02-26 | 13:11:21 | #53 | <LOD | 44   | 119  | 1001 |
| VH2                          | 2014-02-26 | 13:19:29 | #54 | <LOD | 23   | 39   | 67   |
| VH2                          | 2014-02-26 | 13:21:42 | #55 | <LOD | 29   | 45   | 375  |
| BH2N                         | 2014-02-26 | 13:23:14 | #56 | <LOD | 20   | 35   | 91   |
| BH2N                         | 2014-02-26 | 13:24:18 | #57 | <LOD | 21   | 27   | 158  |
| BH2S                         | 2014-02-26 | 13:25:49 | #58 | <LOD | 11.4 | 20   | 58   |
| BH2S                         | 2014-02-26 | 13:26:49 | #59 | <LOD | 18   | 18   | 66   |
| BH2S                         | 2014-02-26 | 13:27:49 | #60 | <LOD | 17   | 26   | 75   |
| BH1                          | 2014-02-26 | 13:29:51 | #61 | <LOD | 17   | 37   | 90   |
| BH1                          | 2014-02-26 | 13:30:54 | #62 | <LOD | 22   | 31   | 131  |
| BF2                          | 2014-02-26 | 13:33:34 | #63 | <LOD | 17   | 35   | 74   |
| BF2                          | 2014-02-26 | 13:35:46 | #64 | <LOD | 24   | 30   | 107  |
| B2:31-32, B2:36-37           | 2014-02-26 | 13:38:56 | #65 | <LOD | 20   | 41   | 275  |
| B2:31-32, B2:36-37           | 2014-02-26 | 13:40:00 | #66 | <LOD | 23   | 40   | 278  |
| B2:31-32, B2:36-37           | 2014-02-26 | 13:41:09 | #67 | <LOD | 15   | <LOD | 134  |
| E1, markmätning, ej slutprov | 2014-02-26 | 13:49:00 | #68 |      |      |      |      |
| E1, markmätning, ej slutprov | 2014-02-26 | 14:21:30 | #69 | <LOD | 14   | 28   | 291  |
| E1, markmätning, ej slutprov | 2014-02-26 | 14:22:31 | #70 | <LOD | 24   | 80   | 326  |
| E1, markmätning, ej slutprov | 2014-02-26 | 14:23:24 | #71 | <LOD | 30   | 54   | 559  |
| E1, markmätning, ej slutprov | 2014-02-26 | 14:24:16 | #72 | <LOD | 21   | 26   | 160  |
| E1, markmätning, ej slutprov | 2014-02-26 | 14:25:16 | #73 | <LOD | 16   | 32   | 207  |
| E1, markmätning, ej slutprov | 2014-02-26 | 14:26:19 | #74 | <LOD | 21   | 49   | 350  |
| E1, markmätning, ej slutprov | 2014-02-26 | 14:27:01 | #75 | <LOD | 21   | 180  | 1011 |

|       |            |          |      |      |      |     |     |
|-------|------------|----------|------|------|------|-----|-----|
| E2-E3 | 2014-02-26 | 14:48:04 | #76  | <LOD | 16   | 21  | 225 |
| E2-E3 | 2014-02-26 | 17:42:14 | #77  | <LOD | 18   | 23  | 476 |
| E2-E3 | 2014-02-26 | 17:43:08 | #78  | <LOD | 19   | 13  | 122 |
| E2-E3 | 2014-02-26 | 17:44:01 | #79  | <LOD | 57   | 29  | 191 |
| E2-E3 | 2014-02-26 | 17:44:52 | #80  | <LOD | 23   | 35  | 318 |
| E2-E3 | 2014-02-26 | 17:45:45 | #81  | <LOD | 27   | 23  | 226 |
| E2-E3 | 2014-02-26 | 17:46:41 | #82  | <LOD | 24   | 22  | 207 |
| E2-E3 | 2014-02-26 | 17:47:37 | #83  | <LOD | 18   | 52  | 288 |
| E2-E3 | 2014-02-26 | 17:48:34 | #84  | <LOD | 30   | 49  | 336 |
| E2-E3 | 2014-02-26 | 17:49:22 | #85  | <LOD | 23   | 43  | 326 |
| E2-E3 | 2014-02-26 | 17:50:12 | #86  | <LOD | 23   | 41  | 199 |
| E2-E3 | 2014-02-26 | 17:51:04 | #87  | <LOD | 20   | 383 | 505 |
| E2-E3 | 2014-02-26 | 17:51:35 | #88  | <LOD | 23   | 35  | 778 |
| E2-E3 | 2014-02-26 | 17:52:27 | #89  | <LOD | 24   | 28  | 591 |
| E2-E3 | 2014-02-26 | 17:53:25 | #90  | <LOD | 19   | 26  | 281 |
| E2-E3 | 2014-02-26 | 17:54:17 | #91  | <LOD | 22   | 32  | 252 |
| E2-E3 | 2014-02-26 | 17:55:08 | #92  | <LOD | 19   | 26  | 255 |
| E2-E3 | 2014-02-26 | 17:58:51 | #93  | <LOD | 19   | 26  | 320 |
| E2-E3 | 2014-02-26 | 17:59:50 | #94  | <LOD | 22   | 25  | 113 |
| E2-E3 | 2014-02-26 | 18:03:15 | #95  | <LOD | 23   | 34  | 308 |
| E2-E3 | 2014-02-26 | 18:04:04 | #96  | <LOD | 26   | 30  | 224 |
| E2-E3 | 2014-02-26 | 18:04:52 | #97  | <LOD | 22   | 28  | 183 |
| E2-E3 | 2014-02-26 | 18:05:48 | #98  | <LOD | 31   | 504 | 313 |
| E2-E3 | 2014-02-26 | 18:06:15 | #99  | <LOD | 19   | 53  | 326 |
| E2N   | 2014-02-26 | 18:21:30 | #100 | <LOD | 24   | 67  | 240 |
| E2N   | 2014-02-26 | 18:23:40 | #101 | <LOD | 22   | 31  | 186 |
| E2N   | 2014-02-26 | 18:24:42 | #102 | <LOD | 15   | 30  | 149 |
| E2S   | 2014-02-26 | 18:26:09 | #103 | <LOD | 13   | 21  | 125 |
| E2S   | 2014-02-26 | 18:26:43 | #104 | <LOD | 20   | 27  | 147 |
| E2S   | 2014-02-26 | 18:27:28 | #104 | <LOD | 14.1 | 19  | 147 |
| E2S   | 2014-02-26 | 18:29:02 | #105 | <LOD | 28   | 68  | 231 |
| E2S   | 2014-02-26 | 18:30:00 | #106 | <LOD |      |     |     |
| T0227 | 2014-02-27 | 14:01:10 | #4   | <LOD |      |     |     |

|                 |            |          |     |      |      |     |      |
|-----------------|------------|----------|-----|------|------|-----|------|
| T0227           | 2014-02-27 | 14:02:32 | #5  | <LOD | 26   | 61  | 174  |
| T0227           | 2014-02-27 | 14:03:42 | #6  | <LOD | 30   | 52  | 179  |
| T0227           | 2014-02-27 | 14:08:07 | #7  | <LOD | 43   | 198 | 478  |
| T0227           | 2014-02-27 | 14:09:26 | #8  | <LOD | 31   | 124 | 392  |
| T0227           | 2014-02-27 | 14:10:54 | #9  | <LOD | 41   | 151 | 539  |
| Mätning mark E3 | 2014-02-27 | 14:15:58 | #10 |      |      |     |      |
|                 | 2014-02-27 | 14:26:15 | #11 | <LOD | 17   | 72  | 607  |
|                 | 2014-02-27 | 14:27:06 | #12 | <LOD | 20   | 117 | 647  |
|                 | 2014-02-27 | 14:27:58 | #13 | <LOD | 21   | 54  | 356  |
|                 | 2014-02-27 | 14:29:00 | #14 | <LOD | 16.3 | 21  | 327  |
|                 | 2014-02-27 | 14:29:54 | #15 | <LOD | 23   | 65  | 267  |
|                 | 2014-02-27 | 14:30:44 | #16 | <LOD | 19   | 65  | 167  |
|                 | 2014-02-27 | 14:31:46 | #17 | <LOD | 16.9 | 22  | 148  |
|                 | 2014-02-27 | 14:32:36 | #18 | <LOD | 39   | 43  | 217  |
|                 | 2014-02-27 | 14:33:31 | #19 | <LOD | 23   | 28  | 183  |
|                 | 2014-02-27 | 14:34:39 | #20 | <LOD | 21   | 39  | 594  |
|                 | 2014-02-27 | 14:35:28 | #21 | <LOD | 20   | 27  | 754  |
|                 | 2014-02-27 | 14:35:58 | #22 | <LOD | <LOD | 95  | 1203 |
|                 | 2014-02-27 | 14:36:47 | #23 | <LOD | 18   | 21  | 184  |
|                 | 2014-02-27 | 14:37:35 | #24 | <LOD | 27   | 36  | 571  |
|                 | 2014-02-27 | 14:38:35 | #25 | <LOD | 16.0 | 35  | 141  |
|                 | 2014-02-27 | 14:39:24 | #26 | <LOD | 30   | 31  | 250  |
|                 | 2014-02-27 | 14:40:23 | #27 | <LOD | 19   | 33  | 294  |
|                 | 2014-02-27 | 14:41:11 | #28 | <LOD | 19   | 60  | 459  |
|                 | 2014-02-27 | 14:41:43 | #29 | <LOD | 16   | 51  | 185  |
|                 | 2014-02-27 | 14:44:59 | #30 | <LOD | 21   | 52  | 114  |
|                 | 2014-02-27 | 14:46:14 | #31 | <LOD | 19   | 39  | 177  |
|                 | 2014-02-27 | 14:52:13 | #32 | <LOD | 15   | 20  | 192  |
|                 | 2014-02-27 | 14:53:02 | #33 | <LOD | 19   | 26  | 278  |
|                 | 2014-02-27 | 14:54:00 | #34 | <LOD | 19   | 28  | 484  |
|                 | 2014-02-27 | 14:54:57 | #35 | <LOD | 23   | 33  | 462  |
|                 | 2014-02-27 | 14:55:54 | #36 | <LOD | 17   | 59  | 447  |
|                 | 2014-02-27 | 14:56:52 | #37 | <LOD | 28   | 50  | 507  |

|            |          |     |      |      |     |      |
|------------|----------|-----|------|------|-----|------|
| 2014-02-27 | 14:58:07 | #38 | <LOD | 19   | 28  | 264  |
| 2014-02-27 | 14:58:58 | #39 | <LOD | 21   | 37  | 222  |
| 2014-02-27 | 15:00:29 | #40 | <LOD | 23   | 36  | 367  |
| 2014-02-27 | 15:01:33 | #41 | <LOD | 18   | 28  | 209  |
| 2014-02-27 | 15:02:35 | #42 | <LOD | 17   | 32  | 215  |
| 2014-02-27 | 15:03:28 | #43 | <LOD | 22   | 34  | 623  |
| 2014-02-27 | 15:04:26 | #44 | <LOD | 24   | 55  | 907  |
| 2014-02-27 | 15:04:41 | #45 | <LOD | 23   | 553 | 1121 |
| 2014-02-27 | 15:05:30 | #46 | <LOD | 21   | 36  | 379  |
| 2014-02-27 | 15:06:29 | #47 | <LOD | 16   | 31  | 587  |
| 2014-02-27 | 15:07:43 | #48 | <LOD | 19   | 30  | 328  |
| 2014-02-27 | 15:08:34 | #49 | <LOD | 21   | 26  | 231  |
| 2014-02-27 | 15:09:23 | #50 | <LOD | 14   | 15  | 220  |
| 2014-02-27 | 15:10:29 | #51 | 6.4  | 25   | 40  | 806  |
| 2014-02-27 | 15:11:30 | #52 | <LOD | 19   | 19  | 351  |
| 2014-02-27 | 15:14:39 | #53 | <LOD | 21   | 25  | 260  |
| 2014-02-27 | 15:15:29 | #54 | <LOD | 18   | 18  | 337  |
| 2014-02-27 | 15:16:37 | #55 | <LOD | 22   | 60  | 799  |
| 2014-02-27 | 15:17:50 | #56 | <LOD | 24   | 50  | 464  |
| 2014-02-27 | 15:18:37 | #57 | <LOD | 24   | 38  | 328  |
| 2014-02-27 | 15:19:35 | #58 | <LOD | 22   | 53  | 338  |
| 2014-02-27 | 15:28:17 | #59 | <LOD | 21   | 39  | 434  |
| 2014-02-27 | 15:29:12 | #60 | <LOD | 30   | 31  | 366  |
| 2014-02-27 | 15:30:02 | #61 | <LOD | 16   | 30  | 224  |
| 2014-02-27 | 15:30:55 | #62 | <LOD | 23   | 37  | 285  |
| 2014-02-27 | 15:31:44 | #63 | <LOD | 16.5 | 35  | 426  |
| 2014-02-27 | 15:32:36 | #64 | <LOD | 23   | 30  | 168  |
| 2014-02-27 | 15:41:19 | #65 | <LOD | 18   | 30  | 168  |
| 2014-02-27 | 15:42:24 | #66 | <LOD | 19   | 23  | 198  |
| 2014-02-27 | 15:43:13 | #67 | <LOD | 21   | 30  | 184  |
| 2014-02-27 | 15:43:51 | #68 | <LOD | 22   | 316 | 179  |
| 2014-02-27 | 15:44:49 | #69 | <LOD | 25   | 32  | 143  |
| 2014-02-27 | 15:45:47 | #70 | <LOD | 23   | 325 | 329  |

|            |              |       |      |    |       |     |
|------------|--------------|-------|------|----|-------|-----|
| 2014-02-27 | 15:46:37     | #71   | <LOD | 23 | 25    | 172 |
| #####      | 15:58:25 #72 | 14.68 |      |    | 14.68 |     |

Gusum sanering etapp 2a  
XRF-mätning v 10, 2014

| Akuttox/FA            |                        | 100     |            | 400      |       | 200  |      | 500 |     |
|-----------------------|------------------------|---------|------------|----------|-------|------|------|-----|-----|
| MKM                   |                        | 25      |            | 330      |       | 170  |      | 420 |     |
| Korrigerad MKM 80% TS |                        | 20      |            | 330      |       | 170  |      | 420 |     |
| Prov                  | djup m u miljordart mm | Anmärkn | datum      | tid      | XRFnr | As   | Pb   | Cu  | Zn  |
| BE3N                  |                        |         | 2014-03-03 | 11:00:51 | #6    | <LOD | 19   | 43  | 155 |
| BE3N                  |                        |         | 2014-03-03 | 11:02:36 | #7    | <LOD | 28   | 59  | 916 |
| BE3N                  |                        |         | 2014-03-03 | 11:03:37 | #8    | <LOD | 19   | 24  | 179 |
| BE3N                  |                        |         | 2014-03-03 | 11:04:59 | #9    | <LOD | 13,3 | 29  | 455 |
| Djupare del av E3     |                        |         | 2014-03-03 | 11:06:21 | #10   | <LOD | 22   | 36  | 156 |
| Djupare del av E3     |                        |         | 2014-03-03 | 11:07:34 | #11   | <LOD | 20   | 39  | 169 |
| Djupare del av E3     |                        |         | 2014-03-03 | 11:09:19 | #12   | <LOD | 21   | 62  | 262 |
| Djupare del av E3     |                        |         | 2014-03-03 | 11:10:20 | #13   | <LOD | 18   | 42  | 245 |
| E3S                   |                        |         | 2014-03-03 | 11:11:25 | #14   | <LOD | 22   | 23  | 146 |
| E3S                   |                        |         | 2014-03-03 | 11:12:24 | #15   | <LOD | 25   | 24  | 130 |
| E3S                   |                        |         | 2014-03-03 | 11:21:58 | #16   | <LOD | 17   | 46  | 259 |
| F1 Ö                  |                        |         | 2014-03-03 | 11:28:23 | #17   | <LOD | 22   | 32  | 428 |
| F1 Ö                  |                        |         | 2014-03-03 | 11:29:18 | #18   | <LOD | 24   | 15  | 235 |
| F1 Ö                  |                        |         | 2014-03-03 | 11:30:12 | #19   | <LOD | 27   | 34  | 331 |
| BF1                   |                        |         | 2014-03-03 | 11:31:19 | #20   | <LOD | 24   | 28  | 243 |
| BF1                   |                        |         | 2014-03-03 | 11:32:18 | #21   | <LOD | 14,9 | 15  | 128 |
| BF1                   |                        |         | 2014-03-03 | 11:33:12 | #22   | <LOD | 17   | 18  | 186 |
| VE2                   |                        |         | 2014-03-03 | 11:35:20 | #23   | <LOD | 20   | 79  | 466 |
| VE2                   |                        |         | 2014-03-03 | 11:36:17 | #24   | <LOD | 25   | 79  | 412 |
| VE2                   |                        |         | 2014-03-03 | 11:37:43 | #25   | <LOD | 22   | 91  | 416 |
| VE1                   |                        |         | 2014-03-03 | 11:39:00 | #26   | <LOD | 32   | 56  | 126 |
| VE1                   |                        |         | 2014-03-03 | 11:40:17 | #27   | <LOD | 14,6 | 27  | 249 |
| VE1                   |                        |         | 2014-03-03 | 11:41:44 | #28   | <LOD | 21   | 66  | 389 |
| VE3                   |                        |         | 2014-03-03 | 11:43:23 | #29   | <LOD | 22   | 41  | 154 |
| VE3                   |                        |         | 2014-03-03 | 11:44:28 | #30   | <LOD | 22   | 53  | 327 |
| VE3                   |                        |         | 2014-03-03 | 11:46:03 | #31   | <LOD | 20   | 87  | 362 |
| T0303                 |                        |         | 2014-03-03 | 11:48:06 | #32   | <LOD | 23   | 45  | 400 |
| T0303                 |                        |         | 2014-03-03 | 11:49:25 | #33   | <LOD | 29   | 46  | 604 |

|                                               |            |          |     |      |      |       |      |
|-----------------------------------------------|------------|----------|-----|------|------|-------|------|
| T0303                                         | 2014-03-03 | 11:50:23 | #34 | <LOD | 18   | 35    | 358  |
| T0303                                         | 2014-03-03 | 11:51:24 | #35 | <LOD | 15   | 36    | 254  |
| T0303                                         | 2014-03-03 | 11:52:22 | #36 | <LOD | 17   | 30    | 211  |
| T0303                                         | 2014-03-03 | 11:53:17 | #37 | <LOD | 19   | 37    | 258  |
| Vägg M7                                       | 2014-03-03 | 11:54:30 | #38 | <LOD | 384  | 23021 | 5183 |
| Vägg M7                                       | 2014-03-03 | 11:55:48 | #39 | <LOD | 154  | 2295  | 3220 |
| Botten M7                                     | 2014-03-03 | 11:57:56 | #40 | <LOD | 244  | 2487  | 2223 |
| 2:30/35                                       | 2014-03-03 | 13:20:46 | #46 | <LOD | 11,3 | 17    | 309  |
| 2:30/35                                       | 2014-03-03 | 13:22:46 | #47 | <LOD | 28   | 25    | 648  |
| 2:30/35                                       | 2014-03-03 | 13:24:03 | #48 | <LOD | 19   | 28    | 278  |
| 2:30/35                                       | 2014-03-03 | 13:24:56 | #49 | <LOD | 25   | 27    | 191  |
| F1                                            | 2014-03-03 | 13:25:54 | #50 | <LOD | 24   | 30    | 207  |
| F1                                            | 2014-03-03 | 13:26:45 | #51 | <LOD | <LOD | <LOD  | 233  |
| F1                                            | 2014-03-03 | 13:30:56 | #52 | <LOD | 21   | 16    | 141  |
| F1                                            | 2014-03-03 | 13:32:43 | #53 | <LOD | 29   | 26    | 116  |
|                                               | 2014-03-03 | 13:34:29 | #54 | <LOD | 17   | 19    | 113  |
| 02:35                                         | 2014-03-03 | 13:35:21 | #55 | <LOD | 16,7 | 24    | 115  |
| 02:35                                         | 2014-03-03 | 13:56:03 | #56 | <LOD | 99   | 1395  | 5509 |
| finfraktion svart material i sortering        | 2014-03-03 | 13:56:51 | #57 | <LOD | 178  | 2671  | 5690 |
| finfraktion brunt material sortering          | 2014-03-03 | 13:58:39 | #58 | <LOD | 21   | 23    | 237  |
| E3                                            | 2014-03-03 | 14:04:19 | #59 | <LOD | 20   | 32    | 748  |
| E3                                            | 2014-03-03 | 14:05:18 | #60 | <LOD | 18   | 26    | 127  |
| E3                                            | 2014-03-03 | 14:06:19 | #61 | <LOD | 18   | 26    | 748  |
| E3                                            | 2014-03-03 | 14:07:28 | #62 | <LOD | 27   | 40    | 290  |
| E3                                            | 2014-03-03 | 14:08:46 | #63 | <LOD | 20   | 51    | 135  |
| E3                                            | 2014-03-03 | 14:12:43 | #64 | <LOD | 28   | 39    | 296  |
| E3                                            | 2014-03-03 | 14:13:31 | #65 | <LOD | 19   | 32    | 149  |
| E3                                            | 2014-03-03 | 14:30:25 | #66 | <LOD | 16   | 23    | 92   |
| Kolla ev förening i G1 från omliggande arbete | 2014-03-03 | 14:30:53 | #67 | <LOD | 16   | 549   | 240  |
| Kolla ev förening i G1 från omliggande arbete | 2014-03-03 | 14:31:24 | #68 | <LOD | 64   | 661   | 599  |
| Kolla ev förening i G1 från omliggande arbete | 2014-03-03 | 14:32:30 | #69 | <LOD | 31   | 215   | 495  |
| Kolla ev förening i G1 från omliggande arbete | 2014-03-03 | 14:33:31 | #70 | <LOD | 19   | 20    | 100  |
| Kolla ev förening i G1 från omliggande arbete | 2014-03-03 | 14:34:45 | #71 | <LOD | 20   | 26    | 141  |
| Kolla ev förening i G1 från omliggande arbete | 2014-03-03 | 14:35:37 | #72 | <LOD | 25   | 175   | 422  |



Kolla ev förorening i G1 från omliggande arbete  
Kolla ev förorening i G1 från omliggande arbete  
Kolla ev förorening i G1 från omliggande arbete  
N om G1 - ej rent

|         |            |          |     |      |      |      |      |
|---------|------------|----------|-----|------|------|------|------|
| BE3     | 2014-03-03 | 14:36:42 | #73 | <LOD | 23   | 38   | 120  |
| BE3     | 2014-03-03 | 14:38:02 | #74 | <LOD | 25   | 34   | 139  |
| BE3     | 2014-03-03 | 14:39:51 | #75 | <LOD | 66   | 290  | 1084 |
| BE3     | 2014-03-03 | 14:40:45 | #76 |      |      |      |      |
| BE3     | 2014-03-03 | 15:03:27 | #78 | <LOD | 26   | 17   | 152  |
| BE3     | 2014-03-03 | 15:05:04 | #79 | <LOD | 20   | 20   | 137  |
| BE3     | 2014-03-03 | 15:06:16 | #80 | <LOD | 20   | 27   | 135  |
| BE3     | 2014-03-03 | 15:06:44 | #81 |      |      |      |      |
| BE3     | 2014-03-03 | 15:13:48 | #82 | <LOD | 22   | 41   | 166  |
| BE3     | 2014-03-03 | 15:15:23 | #83 | <LOD | 26   | 43   | 162  |
| T0303   | 2014-03-03 | 15:17:41 | #84 | <LOD | 44   | 576  | 772  |
| T0303   | 2014-03-03 | 15:19:00 | #85 | <LOD | 37   | 506  | 799  |
| Diverse | 2014-03-04 | 10:22:20 | #5  | <LOD | 17,1 | 13   | 4    |
| Diverse | 2014-03-04 | 10:23:22 | #6  | <LOD | 88   | 119  | 6    |
| Diverse | 2014-03-04 | 10:24:20 | #7  | <LOD | 21   | 15   | 4    |
| Diverse | 2014-03-04 | 13:46:17 | #10 | <LOD | <LOD | <LOD | 275  |
| Diverse | 2014-03-04 | 13:47:35 | #11 | <LOD | 19   | 45   | 5    |
| Diverse | 2014-03-04 | 13:49:21 | #12 | <LOD | 25   | 27   | 4    |
| Diverse | 2014-03-04 | 13:50:13 | #13 | <LOD | 39   | 123  | 6    |
| Diverse | 2014-03-04 | 14:39:10 | #14 | <LOD | 34   | 152  | 6    |
| Diverse | 2014-03-04 | 14:40:05 | #15 | <LOD | 30   | 142  | 6    |
| Diverse | 2014-03-04 | 14:41:08 | #16 | <LOD | 27   | 68   | 5    |
| Diverse | 2014-03-04 | 14:42:06 | #17 | <LOD | 23   | 75   | 5    |
| Diverse | 2014-03-04 | 14:43:04 | #18 | <LOD | 21   | <LOD | 13   |
| Diverse | 2014-03-04 | 14:44:11 | #19 | <LOD | 22   | <LOD | 12   |
| Diverse | 2014-03-04 | 14:45:13 | #20 | <LOD | 23   | 31   | 5    |
| Diverse | 2014-03-04 | 14:47:19 | #21 | <LOD | 20   | 30   | 5    |
| Diverse | 2014-03-04 | 15:20:21 | #22 | <LOD | 26   | <LOD | 12   |
| T0304   | 2014-03-04 | 17:29:14 | #24 | <LOD | 42   | 462  | 10   |
| T0304   | 2014-03-04 | 17:30:18 | #25 | <LOD | 40   | 234  | 7    |
| T0304   | 2014-03-04 | 17:31:19 | #26 | <LOD | 52   | 367  | 9    |
| T0304   | 2014-03-04 | 17:32:46 | #27 | <LOD | 27   | 95   | 5    |
| T0304   | 2014-03-04 | 17:33:55 | #28 | <LOD | 28   | 50   | 5    |
| T0304   | 2014-03-04 | 17:35:25 | #29 | <LOD | 25   | 116  | 6    |

|                               |             |            |          |     |      |      |      |      |
|-------------------------------|-------------|------------|----------|-----|------|------|------|------|
| T0304                         |             | 2014-03-04 | 17:36:42 | #30 | <LOD | 24   | 102  | 6    |
| T0304                         |             | 2014-03-04 | 17:38:08 | #31 | <LOD | 27   | 86   | 5    |
| T0304                         |             | 2014-03-04 | 17:40:06 | #32 | <LOD | 23   | 85   | 5    |
| Grön lera 2:28/2:29           |             | 2014-03-05 | 07:53:01 | #5  | <LOD | 21   | <LOD | 69   |
| Diverse                       |             | 2014-03-05 | 07:54:04 | #6  | <LOD | 20   | <LOD | 82   |
| Diverse                       |             | 2014-03-05 | 07:55:06 | #7  | <LOD | 21   | 12   | 170  |
| Diverse                       |             | 2014-03-05 | 07:56:46 | #8  | <LOD | 18   | 14   | 398  |
| Diverse                       |             | 2014-03-05 | 07:57:41 | #9  | <LOD | 18   | 16   | 138  |
| Diverse                       |             | 2014-03-05 | 07:58:32 | #10 | <LOD | 19   | <LOD | 234  |
| Diverse                       |             | 2014-03-05 | 07:59:41 | #11 | <LOD | 20   | 14   | 309  |
| Diverse                       |             | 2014-03-05 | 08:00:54 | #12 | <LOD | 21   | 39   | 381  |
| Diverse                       |             | 2014-03-05 | 08:01:51 | #13 | <LOD | 16   | 39   | 255  |
| Diverse                       |             | 2014-03-05 | 08:03:37 | #14 | <LOD | 15,7 | 16   | 94   |
| Diverse                       |             | 2014-03-05 | 08:04:29 | #15 | <LOD | 20   | 27   | 174  |
| Diverse                       |             | 2014-03-05 | 08:05:24 | #16 | <LOD | 22   | 28   | 139  |
| Diverse                       |             | 2014-03-05 | 08:06:30 | #17 | <LOD | 80   | 840  | 1632 |
| Diverse                       |             | 2014-03-05 | 08:21:09 | #18 | <LOD | 23   | 17   | 68   |
| Diverse                       |             | 2014-03-05 | 08:22:06 | #19 | <LOD | 14   | 21   | 70   |
| Diverse                       |             | 2014-03-05 | 08:23:15 | #20 | <LOD | 20   | 12   | 71   |
| Diverse                       |             | 2014-03-05 | 08:45:46 | #22 | <LOD | 18   | <LOD | 414  |
| B2:27                         | siltig lera | 2014-03-05 | 08:48:18 | #23 | <LOD | 21   | 20   | 484  |
| B2:27                         | siltig lera | 2014-03-05 | 08:49:28 | #24 | <LOD | 12,4 | <LOD | 217  |
| B2:27                         | siltig lera | 2014-03-05 | 08:50:37 | #25 | <LOD | 18   | 13   | 222  |
| B2:27                         | siltig lera | 2014-03-05 | 08:51:56 | #26 | <LOD | 19   | <LOD | 286  |
| B2:27                         | siltig lera | 2014-03-05 | 08:54:23 | #27 | <LOD | 20   | 24   | 198  |
| B2:17/16/1/2 sandig moränfyll | påse        | 2014-03-05 | 08:55:27 | #28 | <LOD | 27   | 38   | 166  |
| B2:17/16/1/2 sandig moränfyll | påse        | 2014-03-05 | 08:56:27 | #29 | <LOD | 22   | 16   | 101  |
| B2:17/16/1/2 sandig moränfyll | påse        | 2014-03-05 | 09:30:22 | #31 | <LOD | 14,2 | 11   | 48   |
| BG3                           | påse        | 2014-03-05 | 09:35:03 | #32 | <LOD | 17   | 16   | 45   |
| BG3                           | påse        | 2014-03-05 | 09:36:18 | #33 | <LOD | 18   | 12   | 48   |
| Sågspån norra sätten vid rör  | påse        | 2014-03-05 | 09:51:09 | #34 | <LOD | 63   | 764  | 686  |
| "Kattguld"                    |             | 2014-03-05 | 10:31:18 | #35 | <LOD | 20   | <LOD | 91   |
| T0305                         |             | 2014-03-05 | 10:32:45 | #36 | <LOD | 18   | 41   | 795  |
|                               |             | 2014-03-05 | 17:31:16 | #38 | <LOD | 27   | 102  | 363  |

|               |                         |            |          |     |      |      |      |      |
|---------------|-------------------------|------------|----------|-----|------|------|------|------|
| T0305         |                         | 2014-03-05 | 17:32:34 | #39 | <LOD | 29   | 128  | 328  |
| T0305         |                         | 2014-03-05 | 17:35:00 | #40 | <LOD | 29   | 126  | 370  |
| T0305         |                         | 2014-03-05 | 17:37:39 | #41 | <LOD | 103  | 962  | 1894 |
| T0305         |                         | 2014-03-05 | 17:39:34 | #42 | <LOD | 30   | 158  | 460  |
| T0305         |                         | 2014-03-05 | 17:41:26 | #43 | <LOD | 41   | 451  | 730  |
| VF1           | SaF                     | 2014-03-05 | 17:55:23 | #44 | <LOD | 22   | 50   | 130  |
| VF1           | SaF                     | 2014-03-05 | 17:56:30 | #45 | <LOD | 20   | 18   | 51   |
| VF2           | SaF                     | 2014-03-05 | 17:58:53 | #46 | <LOD | 39   | 250  | 510  |
| VF2           | SaF                     | 2014-03-05 | 18:00:04 | #47 | <LOD | 24   | 150  | 224  |
| VF3           | SaF                     | 2014-03-05 | 18:01:16 | #48 | <LOD | 75   | 965  | 1321 |
| VF3           | SaF                     | 2014-03-05 | 18:02:45 | #49 | <LOD | 68   | 730  | 1080 |
| Diverse       |                         | 2014-03-06 | 09:51:21 | #4  | 27   | 479  | 4987 | 981  |
| B2:14-15/2:21 |                         | 2014-03-06 | 13:08:12 | #6  | <LOD | 19   | 15   | 167  |
| B2:14-15/2:21 |                         | 2014-03-06 | 13:09:12 | #7  | <LOD | 22   | 29   | 87   |
| B2:14-15/2:21 |                         | 2014-03-06 | 13:10:18 | #8  | <LOD | 20   | 16   | 82   |
| B2:14-15/2:21 |                         | 2014-03-06 | 13:11:35 | #9  | <LOD | 19   | 17   | 88   |
| B2:14-15/2:21 |                         | 2014-03-06 | 13:12:45 | #10 | <LOD | 14   | 15   | 67   |
| B2:14-15/2:21 |                         | 2014-03-06 | 13:13:56 | #11 | <LOD | 16.3 | 20   | 215  |
| B2:14-15/2:21 |                         | 2014-03-06 | 13:18:53 | #12 | <LOD | 21   | 14   | 300  |
| B2:14-15/2:21 |                         | 2014-03-06 | 13:19:44 | #13 | <LOD | 20   | 16   | 269  |
| T0306         |                         | 2014-03-06 | 13:20:31 | #14 | <LOD | 18   | <LOD | 1055 |
| T0306         |                         | 2014-03-06 | 13:21:32 | #15 | <LOD | 27   | 27   | 414  |
| T0306         |                         | 2014-03-06 | 13:22:25 | #16 | <LOD | 25   | 14   | 636  |
| T0306         |                         | 2014-03-06 | 13:23:19 | #17 | <LOD | 27   | 24   | 676  |
| T0306         |                         | 2014-03-06 | 13:24:16 | #18 | <LOD | 26   | 15   | 139  |
| T0306         |                         | 2014-03-06 | 13:25:14 | #19 | <LOD | 22   | <LOD | 176  |
| T0306         |                         | 2014-03-06 | 13:47:54 | #20 | <LOD | 56   | 399  | 480  |
| T0306         |                         | 2014-03-06 | 13:48:51 | #21 | <LOD | 54   | 646  | 731  |
| T0306         |                         | 2014-03-06 | 13:50:03 | #22 | <LOD | 31   | 238  | 311  |
| T0306         |                         | 2014-03-06 | 13:51:13 | #23 | <LOD | 65   | 357  | 2198 |
| T0306         |                         | 2014-03-06 | 13:52:08 | #24 | <LOD | 27   | 50   | 333  |
| T0306         |                         | 2014-03-06 | 13:53:25 | #25 | <LOD | 55   | 577  | 807  |
| 2:25/26       | mindre yta, ej slutprov | 2014-03-06 | 14:31:52 | #27 | <LOD | 21   | <LOD | 88   |
| 2:25/26       | mindre yta, ej slutprov | 2014-03-06 | 14:32:44 | #28 | <LOD | 21   | 12   | 94   |

|         |                          |            |          |     |      |      |      |      |
|---------|--------------------------|------------|----------|-----|------|------|------|------|
| 2:25/26 | Markprov för avgränsning | 2014-03-06 | 14:33:48 | #29 | <LOD | 24   | 12   | 97   |
| 2:25/26 | Markprov för avgränsning | 2014-03-06 | 14:38:41 | #31 | <LOD | 15   | <LOD | 393  |
| 2:25/26 | Markprov för avgränsning | 2014-03-06 | 14:39:31 | #32 | <LOD | 21   | 16   | 774  |
| 2:25/26 | Markprov för avgränsning | 2014-03-06 | 14:40:19 | #33 | <LOD | 18   | 21   | 1011 |
| 2:25/26 | Markprov för avgränsning | 2014-03-06 | 14:41:27 | #34 | <LOD | 16   | 22   | 306  |
| 2:25/26 | Markprov för avgränsning | 2014-03-06 | 14:45:15 | #35 | <LOD | 16   | <LOD | 408  |
| 2:25/26 | Markprov för avgränsning | 2014-03-06 | 14:46:15 | #36 | <LOD | 28   | 14   | 328  |
| 2:25/26 | Markprov för avgränsning | 2014-03-06 | 14:47:02 | #37 | <LOD | 26   | 23   | 592  |
| 2:25/26 | Markprov för avgränsning | 2014-03-06 | 14:47:52 | #38 | <LOD | 18   | <LOD | 345  |
| 2:25/26 | Markprov för avgränsning | 2014-03-06 | 14:48:41 | #39 | <LOD | 17   | 12   | 448  |
| 2:25/26 | Markprov för avgränsning | 2014-03-06 | 14:52:23 | #40 | <LOD | 18,3 | 22   | 182  |
| 2:25/26 | Markprov för avgränsning | 2014-03-06 | 14:53:10 | #41 | <LOD | 16   | 14   | 175  |
| 2:25/26 | Markprov för avgränsning | 2014-03-06 | 14:53:58 | #42 | <LOD | 18   | 17   | 209  |

Slutsatser: Beslut från diverse XRF-mätningarna tas direkt i fält varför benämning och ruta inte alltid läggs in. Slutprover och prover till Toverum tas alltid.

Gusum sanering etapp 2a

XRF-mätning v 11, 2014

| Akuttox/FA            |                      | 100     |            |          |       |      |      |      |      |
|-----------------------|----------------------|---------|------------|----------|-------|------|------|------|------|
| MKM                   |                      | 25      |            |          |       | 400  |      |      |      |
| Korrigerad MKM 80% TS |                      | 20      |            |          |       | 330  |      |      |      |
| Prov                  | djup m u mjordart mm | Anmärkn | datum      | tid      | XRFnr | As   | Pb   | Cu   | Zn   |
| 2:25-26               |                      | på mark | 2014-03-10 | 08:12:55 | #5    | <LOD | 1094 | 3516 | <LOD |
| 2:25-27               |                      | på mark | 2014-03-10 | 10:01:23 | #7    | <LOD | 17   | 12   | 203  |
| 2:25-28               |                      | på mark | 2014-03-10 | 10:02:29 | #8    | <LOD | 16.4 | <LOD | 330  |
| 2:25-29               |                      | på mark | 2014-03-10 | 10:03:40 | #9    | <LOD | 22   | 28   | 278  |
| 2:25-30               |                      | på mark | 2014-03-10 | 10:04:52 | #10   | <LOD | 21   | <LOD | 372  |
| 2:25-31               |                      | på mark | 2014-03-10 | 10:23:05 | #11   | <LOD | 16   | 13   | 174  |
| 2:25-32               |                      | på mark | 2014-03-10 | 10:23:52 | #12   | <LOD | 24   | <LOD | 185  |
| 2:25-33               |                      | på mark | 2014-03-10 | 10:24:43 | #13   | <LOD | 19   | <LOD | 153  |
| 2:25-34               |                      | på mark | 2014-03-10 | 10:25:49 | #14   | <LOD | 14.9 | <LOD | 91   |
| 2:25-35               |                      | på mark | 2014-03-10 | 10:26:26 | #15   | <LOD | 16   | <LOD | 103  |
| 2:25-36               |                      | på mark | 2014-03-10 | 10:27:13 | #16   | <LOD | 24   | <LOD | 126  |
| 2:25-37               |                      | på mark | 2014-03-10 | 10:28:05 | #17   | <LOD | 18   | <LOD | 79   |
|                       |                      |         | 2014-03-10 | 13:25:00 | #18   | <LOD | 56   | 887  | 627  |
|                       |                      |         | 2014-03-10 | 13:26:16 | #19   | <LOD | 40   | 1711 | 961  |
|                       |                      |         | 2014-03-10 | 13:45:35 | #20   | <LOD | 52   | 815  | 721  |
|                       |                      |         | 2014-03-10 | 14:46:47 | #22   | <LOD | 147  | 2976 | 7434 |
|                       |                      |         | 2014-03-10 | 14:47:48 | #23   | 12   | 171  | 3410 | 8708 |
| 2:25 -26              |                      |         | 2014-03-10 | 14:48:48 | #24   | <LOD | 109  | 2003 | 2163 |
| 2:25 -26              |                      |         | 2014-03-10 | 14:50:06 | #25   | <LOD | <LOD | 3804 | <LOD |
| 2:25 -26              |                      |         | 2014-03-10 | 16:54:57 | #28   | <LOD | <LOD | 4220 | <LOD |
| T0310                 |                      |         | 2014-03-10 | 16:55:49 | #29   | <LOD | 93   | 1862 | 1851 |
| T0310                 |                      |         | 2014-03-10 | 16:57:16 | #30   | 10   | 163  | 3373 | 3551 |
| T0310                 |                      |         | 2014-03-10 | 16:58:43 | #31   | <LOD | 116  | 3119 | 2747 |
| T0310                 |                      |         | 2014-03-10 | 17:00:31 | #32   | <LOD | 59   | 904  | 974  |
| T0310                 |                      |         | 2014-03-10 | 17:01:35 | #33   | <LOD | 90   | 1344 | 1579 |
| T0310                 |                      |         | 2014-03-10 | 17:02:49 | #34   | <LOD | 37   | 423  | 674  |
| V2:15-16              |                      |         | 2014-03-10 | 17:05:58 | #35   | <LOD | 20   | 42   | 134  |

|                           |            |          |     |      |      |      |      |
|---------------------------|------------|----------|-----|------|------|------|------|
| V2:15-16                  | 2014-03-10 | 17:07:36 | #36 | <LOD | 20   | 54   | 137  |
| V2:15-16                  | 2014-03-10 | 17:08:37 | #37 | <LOD | 21   | 17   | 61   |
| V2:17                     | 2014-03-10 | 17:09:43 | #38 | <LOD | 37   | 149  | 307  |
| V2:17                     | 2014-03-10 | 17:10:55 | #39 | <LOD | 23   | 52   | 151  |
| V2:17                     | 2014-03-10 | 17:12:48 | #40 | <LOD | 26   | 116  | 278  |
| Botten 2:12,13,18,19      | 2014-03-10 | 17:42:14 | #42 | <LOD | 32   | 51   | 131  |
| Botten 2:12,13,18,20      | 2014-03-10 | 17:43:07 | #43 | <LOD | 28   | 48   | 140  |
| Botten 2:12,13,18,21      | 2014-03-10 | 17:43:59 | #44 | <LOD | 25   | 21   | 110  |
| Botten 2:12,13,18,22      | 2014-03-10 | 17:44:49 | #45 | <LOD | 33   | 25   | 127  |
| Botten 2:12,13,18,23      | 2014-03-10 | 17:45:40 | #46 | <LOD | 27   | 57   | 154  |
| Botten 2:12,13,18,24      | 2014-03-10 | 17:46:45 | #47 | <LOD | 12.8 | 35   | 109  |
| Botten 2:12,13,18,25      | 2014-03-10 | 17:48:13 | #48 | <LOD | 28   | 21   | 120  |
| Botten 2:12,13,18,26      | 2014-03-10 | 17:49:00 | #49 | <LOD | 20   | 28   | 101  |
| Botten 2:12,13,18,27      | 2014-03-10 | 17:50:38 | #50 | <LOD | 23   | 27   | 223  |
| Botten 2:12,13,18,28      | 2014-03-10 | 17:51:26 | #51 | <LOD | 32   | 40   | 306  |
| Botten 2:12,13,18,29      | 2014-03-10 | 17:52:15 | #52 | <LOD | 28   | 41   | 302  |
| B2:11/12, 21m under \lera | 2014-03-11 | 09:51:33 | #5  | <LOD | 27   | 54   | 189  |
| B2:11/12, 2:18            | 2014-03-11 | 09:52:23 | #6  | <LOD | 25   | 12   | 105  |
| B2:11/12, 2:18            | 2014-03-11 | 09:53:11 | #7  | <LOD | 23   | <LOD | 96   |
| B2:11/12, 2:18            | 2014-03-11 | 09:54:07 | #8  | <LOD | 26   | <LOD | 108  |
| B2:11/12, 2:18            | 2014-03-11 | 09:55:07 | #9  | <LOD | 24   | 15   | 105  |
| B2:11/12, 2:18            | 2014-03-11 | 09:55:52 | #10 | <LOD | 15   | <LOD | 126  |
| B2:11/12, 2:18            | 2014-03-11 | 09:59:30 | #11 | <LOD | 21   | <LOD | 93   |
| B2:11/12, 2:18            | 2014-03-11 | 10:00:00 | #12 | <LOD | <LOD | <LOD | 148  |
| T0311                     | 2014-03-11 | 10:12:03 | #13 | <LOD | 107  | 2833 | 2784 |
| T0311                     | 2014-03-11 | 10:13:39 | #14 | <LOD | 110  | 3280 | 3734 |
| T0311                     | 2014-03-11 | 10:14:47 | #15 | <LOD | 176  | 4759 | 4992 |
|                           | 2014-03-11 | 10:17:37 | #16 | <LOD | 26   | 18   | 100  |
|                           | 2014-03-11 | 10:27:13 | #17 |      |      |      |      |
| B5V, 2:11/12, 2:18        | 2014-03-11 | 12:51:08 | #18 | <LOD | 31   | 21   | 109  |
| B5V, 2:11/12, 2:18        | 2014-03-11 | 12:52:00 | #19 | <LOD | 24   | <LOD | 135  |
| B5V, 2:11/12, 2:18        | 2014-03-11 | 12:52:56 | #20 | <LOD | 24   | 30   | 245  |
| B5V, 2:11/12, 2:18        | 2014-03-11 | 12:53:48 | #21 | <LOD | 17.8 | <LOD | 79   |

|                     |            |          |     |      |      |      |      |
|---------------------|------------|----------|-----|------|------|------|------|
| B5V, 2:11/'lera     | 2014-03-11 | 12:54:44 | #22 | <LOD | 33   | 37   | 166  |
| B5V, 2:11/'lera     | 2014-03-11 | 12:57:43 | #23 | <LOD | 14.0 | <LOD | 81   |
| B5V, 2:11/'lera     | 2014-03-11 | 12:58:32 | #24 | <LOD | 16.6 | 11   | 96   |
| 1:35-36             | 2014-03-11 | 14:34:44 | #25 | 13   | 200  | 1117 | 2593 |
| 1:35-36             | 2014-03-11 | 14:35:38 | #26 | <LOD | 178  | 2443 | 2890 |
| 1:35-36             | 2014-03-11 | 14:35:53 | #27 |      |      |      |      |
| 1:35-36             | 2014-03-11 | 15:10:50 | #28 | <LOD | 83   | 367  | 636  |
| 1:35-36             | 2014-03-11 | 15:11:48 | #29 | <LOD | 80   | 1315 | 1018 |
| 1:35-36             | 2014-03-11 | 15:12:14 | #30 | <LOD | 269  | 847  | 2252 |
| 1:35-36             | 2014-03-11 | 15:12:54 | #31 | <LOD | 445  | 1614 | 3225 |
| 1:35-36             | 2014-03-11 | 15:13:20 | #32 | <LOD | 64   | 1467 | 1097 |
| 1:35-36             | 2014-03-11 | 15:13:43 | #33 | <LOD | 29   | 3866 | 2004 |
| 1:35-36             | 2014-03-11 | 15:14:55 | #36 | <LOD | <LOD | 32   | 468  |
| 1:35-36             | 2014-03-11 | 15:15:41 | #37 | <LOD | 135  | 689  | 1142 |
| 1:35-36             | 2014-03-11 | 15:16:27 | #38 | <LOD | 24   | 79   | 1076 |
| 1:35-36             | 2014-03-11 | 15:17:10 | #39 | <LOD | 120  | 1028 | 1618 |
| 1:35-36             | 2014-03-11 | 15:19:44 | #40 | <LOD | 74   | 484  | 836  |
| 1:35-36             | 2014-03-11 | 15:20:46 | #41 | <LOD | 36   | 161  | 711  |
| 2:10/B4             | 2014-03-11 | 15:41:27 | #42 | <LOD | 18   | 17   | 94   |
| 2:10/B4             | 2014-03-11 | 15:42:23 | #43 | <LOD | 19   | 14   | 82   |
| 2:10/B4             | 2014-03-11 | 15:43:16 | #44 | <LOD | 18   | 20   | 125  |
| 2:10/B4             | 2014-03-11 | 15:44:08 | #45 | <LOD | 27   | 26   | 200  |
| T0311               | 2014-03-11 | 16:32:54 | #46 | <LOD | 77   | 790  | 818  |
| T0311               | 2014-03-11 | 16:34:25 | #47 | <LOD | 65   | 933  | 1067 |
| T0311               | 2014-03-11 | 16:35:29 | #48 | <LOD | 60   | 859  | 948  |
| T0311               | 2014-03-11 | 16:36:36 | #49 | <LOD | 49   | 448  | 917  |
| T0311               | 2014-03-11 | 16:37:42 | #50 | <LOD | 65   | 895  | 1224 |
| T0311               | 2014-03-11 | 16:38:41 | #51 | <LOD | 54   | 780  | 838  |
| V2:12-14            | 2014-03-11 | 16:44:42 | #52 | <LOD | 51   | 527  | 630  |
| V2:12-14            | 2014-03-11 | 16:45:58 | #53 | <LOD | 71   | 1231 | 1335 |
| V2:12-14            | 2014-03-11 | 16:46:59 | #54 | <LOD | 53   | 713  | 895  |
| Diverse avgränsning | 2014-03-11 | 18:30:53 | #56 | <LOD | 17   | 19   | 78   |
| Diverse avgränsning | 2014-03-11 | 18:31:51 | #57 | <LOD | 27   | 165  | 246  |

|                     |            |          |     |      |      |      |      |
|---------------------|------------|----------|-----|------|------|------|------|
| Diverse avgränsning | 2014-03-11 | 18:32:44 | #58 | <LOD | 18   | 24   | 95   |
| Diverse avgränsning | 2014-03-11 | 18:33:34 | #59 | <LOD | 23   | 23   | 147  |
| Diverse avgränsning | 2014-03-11 | 18:38:09 | #60 | <LOD | 30   | 161  | 376  |
| Diverse avgränsning | 2014-03-11 | 18:38:57 | #61 | <LOD | 27   | 73   | 184  |
| Diverse avgränsning | 2014-03-11 | 18:39:47 | #62 | <LOD | 113  | 611  | 1172 |
| Diverse avgränsning | 2014-03-11 | 18:40:40 | #63 | 12.5 | 23   | 28   | 165  |
| Diverse avgränsning | 2014-03-11 | 18:41:32 | #64 | <LOD | 31   | 30   | 173  |
| Diverse avgränsning | 2014-03-11 | 18:42:29 | #65 | <LOD | 20   | 25   | 138  |
| Diverse avgränsning | 2014-03-11 | 18:43:25 | #66 | <LOD | 17   | 13   | 98   |
| Diverse avgränsning | 2014-03-11 | 18:44:15 | #67 | <LOD | 25   | 83   | 269  |
| Diverse avgränsning | 2014-03-11 | 18:45:14 | #68 | <LOD | 23   | 224  | 157  |
| Diverse avgränsning | 2014-03-11 | 18:46:04 | #69 | <LOD | 81   | 824  | 1229 |
| Diverse avgränsning | 2014-03-11 | 18:46:57 | #70 | <LOD | 24   | 30   | 131  |
| Diverse avgränsning | 2014-03-11 | 18:47:19 | #71 | <LOD | 25   | 253  | 179  |
| Diverse avgränsning | 2014-03-11 | 18:48:15 | #72 | <LOD | 21   | 21   | 106  |
| Diverse avgränsning | 2014-03-11 | 18:49:07 | #73 | <LOD | 27   | 24   | 132  |
| Diverse avgränsning | 2014-03-11 | 18:54:36 | #74 | 7.5  | 23   | 40   | 223  |
| Diverse avgränsning | 2014-03-11 | 18:55:30 | #75 | <LOD | 23   | 36   | 127  |
| Diverse avgränsning | 2014-03-11 | 18:56:19 | #76 | <LOD | 17   | 33   | 85   |
| Diverse avgränsning | 2014-03-11 | 19:01:02 | #77 | <LOD | 26   | 178  | 233  |
| Diverse avgränsning | 2014-03-11 | 19:02:15 | #78 | <LOD | 20   | 31   | 97   |
| Diverse avgränsning | 2014-03-12 | 08:06:11 | #4  | <LOD | 207  | 4645 | 5833 |
| Diverse avgränsning | 2014-03-12 | 10:59:03 | #6  | <LOD | 428  | 689  | 2724 |
| Diverse avgränsning | 2014-03-12 | 11:00:12 | #7  | <LOD | 39   | 179  | 1316 |
| Diverse avgränsning | 2014-03-12 | 11:04:07 | #8  | <LOD | 245  | 224  | 833  |
| Diverse avgränsning | 2014-03-12 | 11:05:08 | #9  | <LOD | 31   | 25   | 150  |
| Diverse avgränsning | 2014-03-12 | 11:08:07 | #10 | <LOD | 29   | 27   | 122  |
| Diverse avgränsning | 2014-03-12 | 11:09:47 | #11 | <LOD | 36   | 113  | 372  |
| Diverse avgränsning | 2014-03-12 | 11:32:28 | #12 | <LOD | 49   | 516  | 749  |
| Diverse avgränsning | 2014-03-12 | 11:33:51 | #13 | <LOD | 47   | 621  | 827  |
| T0312               | 2014-03-12 | 11:39:32 | #14 | <LOD | 12.7 | <LOD | 90   |
| T0312               | 2014-03-12 | 11:40:24 | #15 | <LOD | 23   | 32   | 121  |
| B2:7/8/B3V          | 2014-03-12 | 11:41:28 | #16 | <LOD | 13.2 | 12   | 64   |



|                     |            |          |     |      |      |      |
|---------------------|------------|----------|-----|------|------|------|
| B2:7/8/B3V          | 2014-03-12 | 11:42:02 | #17 | <LOD | <LOD | 120  |
| B2:7/8/B3V          | 2014-03-12 | 11:42:48 | #18 | <LOD | 21   | 126  |
| B2:7/8/B3V          | 2014-03-12 | 11:43:56 | #19 | <LOD | 19   | 81   |
| T0312               | 2014-03-12 | 13:26:02 | #20 | <LOD | 65   | 724  |
| BG3/1:10            | 2014-03-12 | 13:37:03 | #22 | <LOD | 16   | 871  |
| B2:5/6B2V           | 2014-03-12 | 16:46:09 | #25 | <LOD | 18   | 58   |
| B2:5/6B2V           | 2014-03-12 | 16:47:05 | #26 | <LOD | 19   | 21   |
| B2:5/6B2V           | 2014-03-12 | 16:47:53 | #27 | <LOD | 17   | 85   |
| B2:5/6B2V           | 2014-03-12 | 16:48:45 | #28 | <LOD | 20   | 22   |
| B2:5/6B2V           | 2014-03-12 | 16:49:43 | #29 | <LOD | 20   | 34   |
| T0312               | 2014-03-12 | 17:30:16 | #30 | <LOD | 63   | <LOD |
| T0312               | 2014-03-12 | 17:31:54 | #31 | <LOD | 83   | 13   |
| T0312               | 2014-03-12 | 17:33:07 | #32 | <LOD | 57   | 97   |
| O1                  | 2014-03-12 | 18:09:59 | #34 | <LOD | 33   | 73   |
| O1                  | 2014-03-12 | 18:10:50 | #35 | <LOD | 30   | 29   |
| Toverum i M5        | 2014-03-13 | 08:34:41 | #5  | <LOD | 180  | 26   |
| Toverum i M5        | 2014-03-13 | 09:58:41 | #6  | <LOD | 25   | 1591 |
| Diverse avgränsning | 2014-03-13 | 09:59:35 | #7  | <LOD | 31   | 51   |
| Diverse avgränsning | 2014-03-13 | 10:00:23 | #8  | <LOD | 23   | 287  |
| Diverse avgränsning | 2014-03-13 | 10:00:46 | #9  | <LOD | 13   | 35   |
| Diverse avgränsning | 2014-03-13 | 10:01:21 | #10 | <LOD | 22   | 301  |
| Diverse avgränsning | 2014-03-13 | 10:01:39 | #11 | <LOD | 25   | 24   |
| Diverse avgränsning | 2014-03-13 | 10:04:17 | #12 | <LOD | 17   | 285  |
| Diverse avgränsning | 2014-03-13 | 10:05:12 | #13 | <LOD | 19   | 13   |
| Diverse avgränsning | 2014-03-13 | 10:05:59 | #14 | <LOD | 15   | 26   |
| Diverse avgränsning | 2014-03-13 | 10:06:46 | #15 | 11.6 | 35   | 20   |
| Diverse avgränsning | 2014-03-13 | 10:07:34 | #16 | <LOD | 21   | 31   |
| Diverse avgränsning | 2014-03-13 | 10:08:58 | #17 | <LOD | 22   | 28   |
| T0313               | 2014-03-13 | 10:34:16 | #18 | <LOD | 51   | 19   |
| T0313               | 2014-03-13 | 10:37:31 | #19 | <LOD | 29   | 634  |
| T0313               | 2014-03-13 | 10:38:38 | #20 | <LOD | 26   | 91   |
| Diverse avgränsning | 2014-03-13 | 14:17:16 | #22 | <LOD | 31   | 69   |
| Diverse avgränsning | 2014-03-13 | 14:18:24 | #23 | <LOD | 36   | 402  |
|                     |            |          |     |      |      | 389  |
|                     |            |          |     |      |      | 362  |
|                     |            |          |     |      |      | 361  |

3m under väg, 1m under vattenyt:

|                     |            |          |     |      |    |     |     |
|---------------------|------------|----------|-----|------|----|-----|-----|
| Diverse avgränsning | 2014-03-13 | 14:19:26 | #24 | <LOD | 20 | 70  | 90  |
| Diverse avgränsning | 2014-03-13 | 14:20:34 | #25 | <LOD | 16 | 149 | 111 |

Slutsatser: Beslut från diverse XRF-mätningarna tas direkt i fält varför benämning och ruta inte alltid läggs in.

Gusum sanering etapp 2a  
XRF-mätning v 12, 2014

|                       |                          |         |            |          |       |         |      |      |       |       |  |
|-----------------------|--------------------------|---------|------------|----------|-------|---------|------|------|-------|-------|--|
| Akuttox/FA            |                          | 100     |            |          |       |         |      |      |       |       |  |
| MKM                   |                          | 25      |            |          |       |         |      |      |       |       |  |
| Korrigerad MKM 80% TS |                          | 20      |            |          |       |         |      |      |       |       |  |
| Prov                  | Plup m u mjordart mm     | Anmärkn | datum      | titid    | XRFnr | Reading | As   | Pb   | Cu    | Zn    |  |
|                       |                          |         | Date       | Time     |       |         | As   | Pb   | Cu    | Zn    |  |
|                       | Toverumsmaterial från M5 |         | 2014-03-17 | 10:32:59 | #5    |         | <LOD | 299  | 3576  | 2698  |  |
|                       | Toverumsmaterial från M5 |         | 2014-03-17 | 10:34:00 | #6    |         | <LOD | 186  | 1652  | 1542  |  |
|                       | Bottenprov M5 norr       |         | 2014-03-17 | 10:35:56 | #8    |         | <LOD | 28   | 198   | 150   |  |
|                       | Bottenprov M5 norr       |         | 2014-03-17 | 10:36:56 | #9    |         | <LOD | 26   | 305   | 273   |  |
|                       | Svart fyll M5            |         | 2014-03-17 | 10:39:31 | #10   |         | <LOD | 1592 | 17847 | 16483 |  |
|                       | Bottenprov M5 söder      |         | 2014-03-17 | 10:41:02 | #11   |         | <LOD | 39   | 711   | 382   |  |
|                       | Diverse                  |         | 2014-03-17 | 10:41:58 | #12   |         | <LOD | 27   | 579   | 130   |  |
|                       | Diverse                  |         | 2014-03-17 | 11:43:09 | #13   |         | <LOD | 120  | 1636  | 987   |  |
|                       | Diverse                  |         | 2014-03-17 | 11:44:12 | #14   |         | <LOD | 29   | 181   | 159   |  |
|                       | Diverse                  |         | 2014-03-17 | 11:45:28 | #15   |         | <LOD | 20   | 189   | 217   |  |
| T0317                 |                          |         | 2014-03-17 | 11:48:22 | #16   |         | <LOD | 231  | 1959  | 2007  |  |
| T0317                 |                          |         | 2014-03-17 | 11:49:24 | #17   |         | <LOD | 826  | 5491  | 3698  |  |
| T0317                 |                          |         | 2014-03-17 | 11:50:34 | #18   |         | 19   | 261  | 2553  | 1902  |  |
| Diverse               |                          |         | 2014-03-17 | 13:45:35 | #20   |         | <LOD | 15   | 20    | 38    |  |
| Diverse               |                          |         | 2014-03-17 | 14:08:03 | #21   |         | <LOD | 13   | 17    | 42    |  |
| Diverse               |                          |         | 2014-03-17 | 14:09:01 | #22   |         | <LOD | 17   | 40    | 86    |  |
| T0317                 |                          |         | 2014-03-17 | 14:12:15 | #23   |         | 32   | 585  | 9325  | 8106  |  |
| T0317                 |                          |         | 2014-03-17 | 14:13:51 | #24   |         | <LOD | 616  | 6012  | 6440  |  |
| T0317                 |                          |         | 2014-03-17 | 14:15:13 | #25   |         | <LOD | 537  | 6485  | 5441  |  |
| Diverse               |                          |         | 2014-03-17 | 14:16:36 | #26   |         | <LOD | 17   | 89    | 407   |  |
| Diverse               |                          |         | 2014-03-17 | 17:57:28 | #29   |         | 13   | 49   | 483   | 1130  |  |
| Diverse               |                          |         | 2014-03-17 | 17:58:50 | #30   |         | 37   | 25   | 522   | 298   |  |
| Diverse               |                          |         | 2014-03-17 | 17:59:44 | #31   |         | <LOD | 216  | 15407 | 4068  |  |
| Diverse               |                          |         | 2014-03-17 | 18:00:36 | #32   |         | <LOD | 18   | 46    | 146   |  |
| Diverse               |                          |         | 2014-03-17 | 18:01:47 | #33   |         | 21   | 35   | 1965  | 649   |  |
| Diverse               |                          |         | 2014-03-17 | 18:03:51 | #34   |         | <LOD | 736  | 18141 | 18673 |  |

|                                    |            |          |     |      |      |       |       |
|------------------------------------|------------|----------|-----|------|------|-------|-------|
| Diverse                            | 2014-03-17 | 18:04:53 | #35 | <LOD | 24   | 344   | 410   |
| Betong M3 -rostsvart-grönfärgad    | 2014-03-17 | 18:05:54 | #36 | 42   | 1609 | 45327 | 11063 |
| T0318                              | 2014-03-18 | 08:24:37 | #6  | <LOD | 48   | 270   | 1203  |
| T0318                              | 2014-03-18 | 08:26:23 | #7  | <LOD | 45   | 289   | 735   |
| T0318                              | 2014-03-18 | 08:27:44 | #8  | <LOD | 32   | 135   | 255   |
| Diverse                            | 2014-03-18 | 10:04:34 | #10 | <LOD | 22   | 145   | 329   |
| Diverse                            | 2014-03-18 | 10:05:27 | #11 | <LOD | 21   | 45    | 860   |
| Diverse                            | 2014-03-18 | 10:06:15 | #12 | <LOD | 21   | 75    | 200   |
| Diverse                            | 2014-03-18 | 10:07:04 | #13 | <LOD | 32   | 160   | 450   |
| Diverse                            | 2014-03-18 | 10:07:57 | #14 | <LOD | 91   | 819   | 1046  |
| Diverse                            | 2014-03-18 | 10:08:56 | #15 | <LOD | 28   | 128   | 334   |
| Diverse                            | 2014-03-18 | 10:14:26 | #16 | 59   | 540  | 9764  | 8410  |
| Diverse                            | 2014-03-18 | 10:15:02 | #17 | <LOD | 35   | 792   | 525   |
| Diverse                            | 2014-03-18 | 10:15:14 | #18 | 79   | 915  | 11564 | 8442  |
| Diverse                            | 2014-03-18 | 11:48:25 | #20 | <LOD | 20   | <LOD  | 290   |
| T0318                              | 2014-03-18 | 13:18:48 | #21 | 50   | 484  | 12454 | 8175  |
| T0318                              | 2014-03-18 | 13:20:04 | #22 | <LOD | 35   | 149   | 220   |
| T0318                              | 2014-03-18 | 13:22:05 | #23 | 24   | 735  | 16787 | 6463  |
| BM3/4                              | 2014-03-18 | 13:25:21 | #24 | <LOD | 20   | 323   | 456   |
| BM3/4                              | 2014-03-18 | 13:28:19 | #25 | <LOD | 419  | 3118  | 4538  |
| BM3/4                              | 2014-03-18 | 13:29:35 | #26 | <LOD | 22   | 137   | 911   |
| Diverse                            | 2014-03-18 | 15:01:42 | #30 | <LOD | 23   | <LOD  | 51    |
| Diverse                            | 2014-03-18 | 15:02:29 | #31 | <LOD | 19   | <LOD  | 70    |
| V2:2-3                             | 2014-03-18 | 17:59:13 | #35 | <LOD | 204  | 3640  | 4216  |
| 1-2 m under väg, söder svart mater | 2014-03-18 | 18:01:02 | #36 | <LOD | 15.8 | 14    | 46    |
| 2-3 m under ljus silt              | 2014-03-18 | 18:02:07 | #37 | <LOD | 16   | 26    | 63    |
| V2:2-3                             | 2014-03-18 | 18:02:07 | #37 | <LOD | 16   | 26    | 63    |
| V2:2-3                             | 2014-03-18 | 18:04:22 | #38 | <LOD | 25   | 53    | 193   |
| V2:2-3                             | 2014-03-18 | 18:05:16 | #39 | <LOD | 16   | 14    | 45    |
| V2:2-3                             | 2014-03-18 | 18:07:16 | #40 | <LOD | 16   | 22    | 70    |
| B2:2/3                             | 2014-03-19 | 13:22:31 | #15 | <LOD | 21   | 33    | 65    |
| Diverse                            | 2014-03-19 | 13:59:02 | #16 | <LOD | 18   | 17    | 48    |
| Diverse                            | 2014-03-19 | 14:02:41 | #17 | <LOD | 26   | 28    | 44    |
| Diverse                            | 2014-03-19 | 14:03:31 | #18 | <LOD | 21   | 14    | 52    |

|         |            |          |     |      |      |     |      |
|---------|------------|----------|-----|------|------|-----|------|
| Diverse | 2014-03-20 | 08:09:33 | #9  | <LOD | 24   | 12  | 78   |
| Diverse | 2014-03-20 | 08:10:13 | #10 | <LOD | 90   | 432 | 1226 |
| Diverse | 2014-03-20 | 08:11:31 | #11 | <LOD | 49   | 69  | 643  |
| Diverse | 2014-03-20 | 08:12:34 | #12 | <LOD | 30   | 26  | 357  |
| Diverse | 2014-03-20 | 08:13:27 | #13 | <LOD | <LOD | 50  | 185  |

Slutsatser: Beslut från diverse XRF-mätningarna tas direkt i fält varför benämning och ruta inte alltid läggs in.

# Gusum sanering etapp 2a

## XRF-mätning v 13, 2014

| Akuttox/FA                                  |               | 100                          |            | 25       |       | 400  |      | 200  |      | 500 |  |
|---------------------------------------------|---------------|------------------------------|------------|----------|-------|------|------|------|------|-----|--|
| MKM                                         |               | 25                           |            | 330      |       | 170  |      | 420  |      |     |  |
| Korrigerad MKM 80% TS                       |               |                              |            |          |       |      |      |      |      |     |  |
| Prov                                        | jordart mm    | Anmärkn                      | datum      | tid      | XRFnr | As   | Pb   | Cu   | Zn   |     |  |
| BM3/4                                       |               |                              | 2014-03-24 | 10:12:13 | #4    |      |      |      |      |     |  |
| B5                                          | lera och silt |                              | 2014-03-24 | 10:18:35 | #5    | <LOD | 591  | 3587 | 1628 |     |  |
| B5                                          | lera och silt |                              | 2014-03-24 | 10:24:45 | #6    | <LOD | 19   | 13   | 74   |     |  |
| B5                                          | lera och silt |                              | 2014-03-24 | 10:25:39 | #7    | <LOD | 28   | 49   | 231  |     |  |
| B5                                          | lera och silt |                              | 2014-03-24 | 10:26:45 | #8    | <LOD | 16   | 28   | 161  |     |  |
| B5                                          | lera och silt |                              | 2014-03-24 | 10:27:39 | #9    | <LOD | 24   | 18   | 96   |     |  |
| B5                                          | rödbrun sand  |                              | 2014-03-24 | 10:28:42 | #10   | <LOD | 34   | 688  | 390  |     |  |
| Betong M3/M4                                |               |                              | 2014-03-24 | 10:45:39 | #11   | <LOD | 19   | 14   | 74   |     |  |
| Betong M3/M4                                |               | Noterat även högt värde på N | 2014-03-24 | 16:54:24 | #12   | <LOD | 160  | 4558 | 1605 |     |  |
| Betong M3/M4                                |               |                              | 2014-03-24 | 16:55:21 | #13   | <LOD | 13   | 93   | 122  |     |  |
| Betong M3/M4                                |               |                              | 2014-03-24 | 16:56:08 | #14   | <LOD | 122  | 908  | 1336 |     |  |
| Betong M3/M4                                |               |                              | 2014-03-24 | 16:56:57 | #15   | 18   | 349  | 4691 | 1930 |     |  |
| Betong M3/M4                                |               |                              | 2014-03-24 | 17:01:14 | #16   | 10.1 | 15   | 1152 | 317  |     |  |
| Betong M3/M4                                |               |                              | 2014-03-24 | 17:05:58 | #17   | <LOD | 31   | 617  | 751  |     |  |
| Betong M3/M4                                |               |                              | 2014-03-24 | 17:11:25 | #19   | <LOD | 24   | 359  | 582  |     |  |
| Betong M3/M4                                |               |                              | 2014-03-24 | 17:14:27 | #20   | <LOD | 19   | 2510 | 1111 |     |  |
| Betong M3/M4                                |               |                              | 2014-03-24 | 17:15:57 | #21   | <LOD | 16   | 160  | 113  |     |  |
| Betong M3/M4                                |               |                              | 2014-03-24 | 17:17:27 | #22   | 58   | 24   | 871  | 371  |     |  |
| vägg i B3/Bsilt                             |               |                              | 2014-03-25 | 07:33:41 | #8    | <LOD | 15   | 15   | 96   |     |  |
| vägg i B3/Bsilt                             |               |                              | 2014-03-25 | 07:34:36 | #9    | <LOD | 17   | 23   | 80   |     |  |
| vägg i B3/Bsilt                             |               |                              | 2014-03-25 | 07:35:38 | #10   | <LOD | 14,7 | 17   | 99   |     |  |
| vägg i B3/Bsilt                             |               |                              | 2014-03-25 | 07:36:35 | #11   | <LOD | 20   | 17   | 112  |     |  |
| vägg i B3/Bsilt                             |               |                              | 2014-03-25 | 07:39:32 | #12   | <LOD | 17   | <LOD | 61   |     |  |
| Grövre material i lager över oljeförorening |               |                              | 2014-03-25 | 09:44:34 | #13   | <LOD | 22   | 24   | 127  |     |  |
| Grövre material i lager över oljeförorening |               |                              | 2014-03-25 | 09:45:33 | #14   | <LOD | 19   | 21   | 109  |     |  |
| Grövre material i lager över oljeförorening |               |                              | 2014-03-25 | 09:46:28 | #15   | <LOD | 26   | 38   | 157  |     |  |
| Grövre material i lager över oljeförorening |               |                              | 2014-03-25 | 09:49:28 | #16   | <LOD | 20   | 35   | 112  |     |  |

Grövre material i lager över oljeförorening

|                                             |            |          |     |      |      |       |      |  |  |
|---------------------------------------------|------------|----------|-----|------|------|-------|------|--|--|
| Grövre material i lager över oljeförorening | 2014-03-25 | 10:06:38 | #17 |      |      |       |      |  |  |
|                                             | 2014-03-25 | 11:12:08 | #18 | 37   | 394  | 3937  | 2285 |  |  |
|                                             | 2014-03-25 | 11:14:29 | #19 | 18   | 243  | 10055 | 3372 |  |  |
| BM3/4                                       | 2014-03-25 | 11:16:40 | #20 | <LOD | 66   | 909   | 1692 |  |  |
| BM3/4                                       | 2014-03-25 | 11:18:19 | #21 | <LOD | 116  | 2730  | 5251 |  |  |
| VM4-6                                       | 2014-03-25 | 13:02:49 | #23 | <LOD | 18,3 | 19    | 112  |  |  |
| VM4-6                                       | 2014-03-25 | 13:03:40 | #24 | <LOD | 30   | 99    | 196  |  |  |
| lera/silt                                   | 2014-03-25 | 13:04:52 | #25 | <LOD | 20   | 41    | 258  |  |  |
|                                             | 2014-03-25 | 13:06:03 | #26 | <LOD | 12,9 | 41    | 95   |  |  |
|                                             | 2014-03-25 | 18:01:52 | #27 | <LOD | 27   | 22    | 92   |  |  |
|                                             | 2014-03-25 | 18:02:47 | #28 | <LOD | 20   | 30    | 94   |  |  |
|                                             | 2014-03-25 | 18:04:06 | #29 | <LOD | 33   | 75    | 201  |  |  |
|                                             | 2014-03-25 | 18:04:59 | #30 | <LOD | 16   | 141   | 178  |  |  |
|                                             | 2014-03-25 | 18:05:57 | #31 | <LOD | 27   | 74    | 204  |  |  |
|                                             | 2014-03-25 | 18:06:53 | #32 | <LOD | 23   | 53    | 234  |  |  |
|                                             | 2014-03-25 | 18:07:50 | #33 | <LOD | 23   | 35    | 186  |  |  |
|                                             | 2014-03-25 | 18:08:48 | #34 | <LOD | 22   | 101   | 1499 |  |  |
| K5sv                                        | 2014-03-25 | 18:09:40 | #35 | <LOD | 23   | 46    | 306  |  |  |
| K5sv                                        | 2014-03-25 | 18:14:27 | #36 | <LOD | 16   | 25    | 143  |  |  |
| K5sv                                        | 2014-03-25 | 18:20:03 | #37 | <LOD | 18   | 43    | 356  |  |  |
| K5sv                                        | 2014-03-25 | 18:20:54 | #38 | <LOD | 19   | 19    | 287  |  |  |
| K5sv                                        | 2014-03-25 | 18:21:47 | #39 | <LOD | 18   | 26    | 393  |  |  |
| K5sv                                        | 2014-03-25 | 18:22:44 | #40 | <LOD | 20   | 22    | 224  |  |  |
| K5sv                                        | 2014-03-25 | 18:23:35 | #41 | <LOD | 23   | 26    | 135  |  |  |
| K5sv                                        | 2014-03-25 | 18:24:15 | #42 | <LOD | 24   | <LOD  | 131  |  |  |
| Diverse                                     | 2014-03-25 | 18:42:41 | #43 | <LOD | 24   | 19    | 108  |  |  |
| Diverse                                     | 2014-03-25 | 18:43:40 | #44 | <LOD | 20   | 37    | 113  |  |  |
| Diverse                                     | 2014-03-25 | 18:44:27 | #45 | <LOD | 19   | 53    | 206  |  |  |
| Diverse                                     | 2014-03-26 | 13:46:37 | #2  | <LOD | 27   | 21    | 96   |  |  |
| Diverse                                     | 2014-03-26 | 13:48:14 | #3  | <LOD | 19   | 21    | 83   |  |  |
| Diverse                                     | 2014-03-26 | 13:49:18 | #4  | <LOD | 17   | 24    | 101  |  |  |
| Diverse                                     | 2014-03-26 | 13:50:19 | #5  | <LOD | 15,8 | <LOD  | 74   |  |  |
| Diverse                                     | 2014-03-26 | 13:51:15 | #6  | <LOD | 17   | 20    | 76   |  |  |

|                  |                         |            |          |     |      |      |      |       |
|------------------|-------------------------|------------|----------|-----|------|------|------|-------|
| Diverse          |                         | 2014-03-26 | 13:52:07 | #7  | <LOD | 21   | <LOD | 56    |
| Diverse          |                         | 2014-03-26 | 13:55:37 | #8  | <LOD | 16   | 22   | 129   |
| T0326            |                         | 2014-03-26 | 15:19:03 | #10 | 9    | 79   | 1294 | 2225  |
| T0326            |                         | 2014-03-26 | 15:20:25 | #11 | <LOD | 115  | 2788 | 2452  |
| T0326            |                         | 2014-03-26 | 15:21:55 | #12 | <LOD | 60   | 881  | 1168  |
| BK5              | lera/siltig morän       | 2014-03-26 | 15:26:42 | #13 | <LOD | 18   | 25   | 135   |
| BK5              | lera/siltig morän       | 2014-03-26 | 15:29:35 | #14 | <LOD | 12   | 30   | 83    |
| BB5V             |                         | 2014-03-26 | 15:36:25 | #15 | <LOD | 18   | 25   | 110   |
| B4               | sandig morän/silt       | 2014-03-26 | 17:56:15 | #17 | <LOD | 17   | <LOD | 57    |
| B4               |                         | 2014-03-26 | 17:57:34 | #18 | <LOD | 18   | 46   | 142   |
| B4               |                         | 2014-03-26 | 18:12:03 | #19 | <LOD | 18   | 20   | 82    |
| K3/1:11          | lera                    | 2014-03-27 | 09:46:12 | #6  | <LOD | 27   | 18   | 110   |
| K3/1:11          | lera                    | 2014-03-27 | 09:47:16 | #7  | <LOD | 29   | 31   | 242   |
| K3/1:11          | lera                    | 2014-03-27 | 09:48:07 | #8  | <LOD | 14,6 | <LOD | 76    |
| K3/1:11          | lera                    | 2014-03-27 | 09:49:02 | #9  | <LOD | 26   | 15   | 105   |
| K3/1:11          | lera                    | 2014-03-27 | 09:51:52 | #10 | <LOD | 13   | <LOD | 61    |
| K3/1:11          | lera                    | 2014-03-27 | 09:53:01 | #11 | <LOD | 20   | 21   | 86    |
| T0327            |                         | 2014-03-27 | 10:12:13 | #12 | <LOD | 36   | 751  | 555   |
| T0327            |                         | 2014-03-27 | 10:14:06 | #13 | <LOD | 148  | 649  | 3564  |
| T0327            |                         | 2014-03-27 | 10:15:12 | #14 | <LOD | 120  | 933  | 2356  |
| Diverse          |                         | 2014-03-27 | 10:16:17 | #15 | <LOD | 960  | 3490 | <LOD  |
| Diverse          |                         | 2014-03-27 | 10:18:39 | #16 | <LOD | 18   | 38   | 70    |
| B4               |                         | 2014-03-27 | 10:19:30 | #17 | <LOD | 15,8 | 32   | 53    |
| B4               |                         | 2014-03-27 | 10:20:40 | #18 | <LOD | 16,3 | 18   | 52    |
| B4 mitt S        |                         | 2014-03-27 | 10:52:44 | #19 | <LOD | 17   | 16   | 75    |
| Tegel i smältugn | bränd yta               | 2014-03-27 | 11:24:15 | #21 | <LOD | 253  | 3236 | 72465 |
| Tegel i smältugn |                         | 2014-03-27 | 11:25:17 | #22 | <LOD | 716  | 90   | 713   |
| Diverse          |                         | 2014-03-27 | 11:56:01 | #24 | <LOD | 224  | 3884 | 65819 |
| BK5/1:11         | lera+ sand samlingsprov | 2014-03-27 | 13:31:58 | #26 | <LOD | 25   | 24   | 275   |
| BK5/1:11         | lera+ sand samlingsprov | 2014-03-27 | 13:33:18 | #27 | <LOD | 26   | 28   | 114   |
| BB4-5            | samlingsprov            | 2014-03-27 | 13:34:34 | #28 | <LOD | 24   | 29   | 108   |
| BB4-5            | samlingsprov            | 2014-03-27 | 13:36:05 | #29 | <LOD | 15   | 18   | 79    |
| BK3-4/1:11       |                         | 2014-03-27 | 13:37:09 | #30 | <LOD | 19   | 24   | 138   |



|            |            |          |     |      |    |     |     |
|------------|------------|----------|-----|------|----|-----|-----|
| BK3-4/1:11 | 2014-03-27 | 13:38:08 | #31 | <LOD | 20 | 23  | 93  |
| VB4        | 2014-03-27 | 14:24:30 | #33 | <LOD | 23 | 12  | 45  |
| K2/K4-5    | 2014-03-27 | 15:46:54 | #34 | <LOD | 19 | 35  | 88  |
| K2/K4-5    | 2014-03-27 | 15:47:45 | #35 | <LOD | 23 | 37  | 114 |
| K2/K4-5    | 2014-03-27 | 15:48:43 | #36 | <LOD | 23 | 113 | 285 |
| K2/K4-5    | 2014-03-27 | 15:49:52 | #37 | <LOD | 18 | 69  | 132 |
| K2/K4-5    | 2014-03-27 | 15:50:46 | #38 | <LOD | 25 | 87  | 265 |
| K2/K4-5    | 2014-03-27 | 15:51:41 | #39 | <LOD | 20 | 46  | 115 |
| K2/K4-5    | 2014-03-27 | 15:52:34 | #40 | <LOD | 19 | 19  | 107 |
| K2/K4-5    | 2014-03-27 | 15:53:52 | #41 | <LOD | 23 | 30  | 111 |
| K2/K4-5    | 2014-03-27 | 15:55:28 | #43 | <LOD | 19 | 23  | 92  |

Slutsatser: Beslut från diverse XRF-mätningarna tas direkt i fält varför benämning och ruta inte alltid läggs in.

Gusum sanering etapp 2a

XRF-mätning v 14, 2014

| Akuttox/FA            |                    | 100        |          |     |       |
|-----------------------|--------------------|------------|----------|-----|-------|
| MKM                   |                    | 25         | 400      | 200 | 500   |
| Korrigerad MKM 80% TS |                    | 20         | 330      | 170 | 420   |
| Prov                  | djup m u m         | jordart    | mm       | mär | datum |
| tid                   | XRFnr              | As         | Pb       | Cu  | Zn    |
| Diverse               |                    |            |          |     |       |
|                       |                    | 2014-03-31 | 09:41:41 | #5  |       |
|                       |                    | 2014-03-31 | 09:48:59 | #6  |       |
|                       |                    | 2014-03-31 | 09:50:22 | #7  |       |
|                       |                    | 2014-03-31 | 09:53:51 | #8  |       |
| BB3                   | sisamIn            | 2014-03-31 | 09:55:20 | #9  |       |
| BB3                   |                    | 2014-03-31 | 09:57:05 | #10 |       |
| BB3                   |                    | 2014-03-31 | 09:58:52 | #11 |       |
| BB3                   | svart mineral/stu  | 2014-03-31 | 10:00:22 | #12 |       |
| BB3                   |                    | 2014-03-31 | 14:23:52 | #14 |       |
| K1/K2/K3              | yttre ligare schak | 2014-03-31 | 14:24:58 | #16 |       |
| K1/K2/K3              |                    | 2014-03-31 | 14:25:50 | #17 |       |
| K1/K2/K3              |                    | 2014-03-31 | 14:26:43 | #18 |       |
| K1/K2/K3              |                    | 2014-03-31 | 14:27:59 | #19 |       |
| K1/K2/K3              |                    | 2014-03-31 | 14:30:13 | #20 |       |
| K1/K2/K3              |                    | 2014-03-31 | 14:32:11 | #21 |       |
| K1/K2/K3              |                    | 2014-03-31 | 14:32:52 | #23 |       |
| K1/K2/K3              |                    | 2014-03-31 | 14:33:56 | #24 |       |
| K1/K2/K3              |                    | 2014-03-31 | 14:35:28 | #25 |       |
| K1/K2/K3              |                    | 2014-03-31 | 14:49:49 | #26 |       |
| K1/K2/K3              |                    | 2014-03-31 | 14:50:59 | #27 |       |
| K1/K2/K3              |                    | 2014-03-31 | 14:52:11 | #28 |       |
| K1/K2/K3              |                    | 2014-03-31 | 14:54:29 | #29 |       |
| K1/K2/K3              | under cementbr     | 2014-04-01 | 08:58:13 | #8  |       |
| K1/K2/K3              | under cementbr     | 2014-04-01 | 08:59:32 | #9  |       |
| K1/K2/K3              | under cementbr     | 2014-04-01 | 09:00:45 | #10 |       |
| K1/K2/K3              | under cementbr     | 2014-04-01 | 12:22:42 | #11 |       |
| div                   |                    | 2014-04-01 | 12:43:14 | #12 |       |

|              |                   |            |          |     |      |      |      |     |
|--------------|-------------------|------------|----------|-----|------|------|------|-----|
| Bärlager E22 |                   | 2014-04-01 | 12:44:25 | #13 | <LOD | 22   | 24   | 78  |
| Bärlager E22 |                   | 2014-04-01 | 13:07:01 | #14 | <LOD | 21   | 135  | 101 |
| Bärlager E22 |                   | 2014-04-01 | 13:09:04 | #15 | <LOD | 21   | 23   | 55  |
| G3           | Material ur brun  | 2014-04-01 | 13:43:50 | #17 | <LOD | 14,2 | <LOD | 54  |
| G3           | Material ur brun  | 2014-04-01 | 13:44:54 | #19 | <LOD | 23   | <LOD | 63  |
| G3           | Material ur brun  | 2014-04-01 | 13:45:26 | #20 | <LOD | 18   | 34   | 70  |
| G3           | Material ur brun  | 2014-04-01 | 13:49:22 | #21 | <LOD | 19   | 24   | 100 |
| G3           | Material ur brun  | 2014-04-01 | 13:50:14 | #22 | <LOD | 25   | 13   | 87  |
| G3           | Material ur brun  | 2014-04-01 | 13:52:22 | #23 | <LOD | 14,6 | 13   | 60  |
| G3           | Material ur brun  | 2014-04-01 | 13:55:13 | #24 | <LOD | 19   | 26   | 71  |
| G3           | Material ur brun  | 2014-04-01 | 14:00:17 | #25 | <LOD | 10   | 30   | 55  |
| G3           | Material ur brun  | 2014-04-01 | 14:07:32 | #26 | <LOD | 19   | <LOD | 79  |
| G3           | Material ur brun  | 2014-04-01 | 14:08:21 | #27 | <LOD | 15,4 | <LOD | 70  |
| G3           | Material ur brun  | 2014-04-01 | 14:12:58 | #28 | <LOD | 23   | 24   | 81  |
| G3           | Material ur brun  | 2014-04-01 | 14:13:46 | #29 | <LOD | 22   | <LOD | 85  |
| G3           | Material ur brun  | 2014-04-01 | 14:14:37 | #30 | <LOD | 18,9 | 13   | 68  |
| B1/2         |                   | 2014-04-01 | 15:58:19 | #32 | <LOD | 16   | 26   | 86  |
| G3/H1        |                   | 2014-04-01 | 16:09:47 | #33 | <LOD | 29   | 25   | 142 |
| G3/H1        |                   | 2014-04-01 | 16:11:14 | #34 | <LOD | 19   | 12   | 78  |
| G3/H1        |                   | 2014-04-01 | 16:12:09 | #35 | <LOD | 19   | 15   | 79  |
| div          |                   | 2014-04-01 | 18:34:42 | #38 | <LOD | 15   | 30   | 73  |
| div          |                   | 2014-04-01 | 18:35:56 | #39 | <LOD | 29   | 388  | 438 |
| div          |                   | 2014-04-01 | 18:36:54 | #40 | <LOD | 61   | 593  | 932 |
| div          | Tidigare renklass | 2014-04-02 | 14:47:13 | #4  | <LOD | 28   | 20   | 115 |
| div          |                   | 2014-04-02 | 14:48:06 | #5  | <LOD | 26   | 19   | 115 |
| div          |                   | 2014-04-02 | 14:48:59 | #6  | <LOD | 17   | 20   | 117 |
| div          | 0,5 m             | 2014-04-02 | 14:49:51 | #7  | <LOD | 14,4 | 30   | 74  |
| div          |                   | 2014-04-02 | 14:50:46 | #8  | <LOD | 13,8 | 19   | 78  |
| div          |                   | 2014-04-02 | 14:51:45 | #9  | <LOD | 16,5 | 23   | 118 |
| div          |                   | 2014-04-02 | 14:54:11 | #10 | <LOD | 32   | 168  | 126 |
| V2:6-10      |                   | 2014-04-03 | 08:23:24 | #5  | <LOD | 19   | 26   | 51  |
| V2:6-10      |                   | 2014-04-03 | 08:26:22 | #6  | <LOD | 19   | 28   | 67  |
| V2:3-5       |                   | 2014-04-03 | 08:27:44 | #7  | <LOD | 17   | 39   | 161 |

|       |               |            |    |      |    |     |     |
|-------|---------------|------------|----|------|----|-----|-----|
| K1/K2 | ytterl schakt | 2014-04-03 | #8 | <LOD | 46 | 133 | 739 |
|-------|---------------|------------|----|------|----|-----|-----|

Slutsatser: Diverse XRF-mätningar utförs direkt på makr och beslut tas i fält. Slutprov anges.

Gusum sanering etapp 2a  
XRF-mätning v 15, 2014

| Akuttox/FA            |                        | 100     |            |          |       |      |      |      |     |  |  |
|-----------------------|------------------------|---------|------------|----------|-------|------|------|------|-----|--|--|
| MKM                   |                        | 25      |            |          |       |      |      |      |     |  |  |
| Korrigerad MKM 80% TS |                        | 20      |            |          |       |      |      |      |     |  |  |
| Prov                  | djup m u miljordart mm | Anmärkn | datum      | tid      | XREnr | As   | Pb   | Cu   | Zn  |  |  |
| V2:3-5 (0,5 m)        |                        |         | 2014-04-07 | 10:55:14 | #7    |      |      |      |     |  |  |
| V2:3-5 (0,5 m)        |                        |         | 2014-04-07 | 12:01:06 | #8    | <LOD | 31   | 92   | 205 |  |  |
| div                   |                        |         | 2014-04-07 | 12:02:12 | #9    | <LOD | 19   | 40   | 133 |  |  |
| div                   |                        |         | 2014-04-07 | 12:03:09 | #10   | <LOD | 23   | 52   | 117 |  |  |
|                       |                        |         | 2014-04-07 | 12:07:48 | #11   |      |      |      |     |  |  |
| div                   |                        |         | 2014-04-07 | 13:48:43 | #12   | <LOD | 16   | 26   | 82  |  |  |
| div                   |                        |         | 2014-04-07 | 13:49:38 | #13   | <LOD | 21   | 30   | 105 |  |  |
| div                   |                        |         | 2014-04-07 | 13:50:32 | #14   | <LOD | 22   | 25   | 111 |  |  |
| div                   |                        |         | 2014-04-07 | 13:51:25 | #15   | <LOD | 20   | 34   | 116 |  |  |
| div                   |                        |         | 2014-04-07 | 13:53:43 | #16   | <LOD | 21   | 24   | 96  |  |  |
| div                   |                        |         | 2014-04-07 | 13:54:37 | #17   | <LOD | 18   | 43   | 258 |  |  |
| BK1/K2                |                        |         | 2014-04-07 | 14:00:53 | #18   | <LOD | 22   | 37   | 70  |  |  |
| BK1/K2                |                        |         | 2014-04-07 | 14:02:01 | #19   | <LOD | 18   | 26   | 67  |  |  |
|                       |                        |         | 2014-04-08 | 04:35:40 | #1    |      |      |      |     |  |  |
| BK1-3                 | Mn/Le                  |         | 2014-04-08 | 10:42:11 | #2    | <LOD | 30   | 41   | 72  |  |  |
| BK1-3                 |                        |         | 2014-04-08 | 10:43:05 | #3    | <LOD | 24   | 32   | 68  |  |  |
| V2:6-10               |                        |         | 2014-04-08 | 10:44:29 | #4    | <LOD | 21   | 26   | 49  |  |  |
| V2:6-10               |                        |         | 2014-04-08 | 10:45:29 | #5    | <LOD | 17   | 25   | 66  |  |  |
| VG3                   | brunnvägg              |         | 2014-04-08 | 10:48:15 | #6    | <LOD | 16   | 21   | 38  |  |  |
| VG3                   | brunnvägg              |         | 2014-04-08 | 10:49:15 | #7    | <LOD | 17   | 19   | 61  |  |  |
| BG3                   | brunnbotten            |         | 2014-04-08 | 10:59:44 | #8    | <LOD | 16,3 | <LOD | 38  |  |  |
|                       |                        |         | 2014-04-08 | 11:05:53 | #9    |      |      |      |     |  |  |
| VB3                   |                        |         | 2014-04-08 | 12:53:42 | #10   | <LOD | 20   | 39   | 173 |  |  |
| B2/B1                 |                        |         | 2014-04-08 | 12:54:51 | #11   | <LOD | 27   | 37   | 81  |  |  |
|                       |                        |         | 2014-04-08 | 12:59:48 | #12   |      |      |      |     |  |  |

|           |        |                      |            |          |     |      |      |      |      |
|-----------|--------|----------------------|------------|----------|-----|------|------|------|------|
| B 2:28/29 | silt   | Bottenprover sakn:   | 2014-04-08 | 13:28:16 | #13 | <LOD | 22   | 21   | 348  |
| B 2:28/29 | silt   | prov fr västra deler | 2014-04-08 | 13:30:22 | #14 | <LOD | 26   | 18   | 189  |
| div       |        |                      | 2014-04-08 | 13:39:08 | #15 | <LOD | 12,2 | 33   | 80   |
| div       |        |                      | 2014-04-08 | 13:43:55 | #16 |      |      |      |      |
| div       |        |                      | 2014-04-08 | 23:43:56 | #17 |      |      |      |      |
|           |        |                      | 2014-04-09 | 09:43:57 | #1  |      |      |      |      |
| K2        |        | ytterligare schakt   | 2014-04-09 | 10:22:43 | #2  | <LOD | 30   | <LOD | 80   |
| K2        |        |                      | 2014-04-09 | 10:24:10 | #4  | <LOD | 28   | 17   | 77   |
| K2        |        |                      | 2014-04-09 | 10:26:02 | #6  | <LOD | 24   | 30   | 112  |
| K2        |        |                      | 2014-04-09 | 10:27:20 | #7  | <LOD | 18   | 18   | 105  |
| K2        |        |                      | 2014-04-09 | 10:28:36 | #8  | <LOD | 23   | 26   | 659  |
| K2        |        |                      | 2014-04-09 | 10:30:10 | #9  | <LOD | 23   | 33   | 210  |
| K2        |        |                      | 2014-04-09 | 10:31:26 | #10 | <LOD | 16   | 32   | 212  |
| K2        |        |                      | 2014-04-09 | 10:33:08 | #11 | <LOD | 26   | 104  | 399  |
| K2        |        |                      | 2014-04-09 | 10:34:36 | #12 | <LOD | 20   | 33   | 343  |
| K2        |        |                      | 2014-04-09 | 10:35:44 | #13 | <LOD | 22   | 62   | 187  |
| K2        |        |                      | 2014-04-09 | 10:36:58 | #14 | <LOD | 18   | 30   | 181  |
| K2        |        |                      | 2014-04-09 | 10:38:09 | #15 | <LOD | 19   | 33   | 128  |
| K2        |        |                      | 2014-04-09 | 10:39:09 | #17 | <LOD | 24   | 25   | 124  |
| BK2       |        |                      | 2014-04-09 | 10:41:48 | #18 | <LOD | 21   | 37   | 214  |
| div       |        |                      | 2014-04-09 | 10:51:22 | #19 | <LOD | 58   | 819  | 1902 |
| div       |        |                      | 2014-04-09 | 10:52:25 | #20 | <LOD | 59   | 461  | 1219 |
| div       |        |                      | 2014-04-09 | 10:53:32 | #21 | <LOD | 49   | 151  | 368  |
|           |        |                      | 2014-04-10 | 08:23:02 | #3  |      |      |      |      |
| K1 S      | Si, Mn | på mark              | 2014-04-10 | 10:17:24 | #5  | <LOD | 18   | 28   | 198  |
| K1 S      |        |                      | 2014-04-10 | 10:18:15 | #6  | <LOD | 21   | 44   | 116  |
| K1 S      |        |                      | 2014-04-10 | 10:19:11 | #7  | <LOD | 21   | 19   | 277  |
| K1 S      |        |                      | 2014-04-10 | 10:20:02 | #8  | <LOD | 20   | 30   | 1323 |
| K1 S      |        |                      | 2014-04-10 | 10:20:55 | #9  | <LOD | 16   | 18   | 177  |
| K1 S      |        |                      | 2014-04-10 | 10:21:58 | #10 | <LOD | 18   | 25   | 109  |
| K1 S      |        |                      | 2014-04-10 | 10:27:34 | #11 | <LOD | 21   | 31   | 507  |
| K1 S      |        |                      | 2014-04-10 | 10:28:27 | #12 | <LOD | 32   | 74   | 748  |
| K1 S      |        |                      | 2014-04-10 | 10:29:18 | #13 | <LOD | 20   | 19   | 102  |

|              |            |          |     |      |    |      |     |
|--------------|------------|----------|-----|------|----|------|-----|
| K1 S         | 2014-04-10 | 10:30:09 | #14 | <LOD | 14 | <LOD | 331 |
| K1 S         | 2014-04-10 | 10:30:29 | #15 | <LOD | 24 | 411  | 389 |
| K1 S         | 2014-04-10 | 10:31:22 | #16 | <LOD | 19 | 20   | 439 |
| K1 S         | 2014-04-10 | 10:38:49 | #17 | <LOD | 21 | 42   | 147 |
| K1 S         | 2014-04-10 | 10:39:38 | #18 | <LOD | 22 | 21   | 210 |
| K1 S         | 2014-04-10 | 10:41:54 | #19 | <LOD | 20 | 15   | 104 |
|              | 2014-04-10 | 11:06:56 | #20 |      |    |      |     |
| B1:10 /2:41  | 2014-04-10 | 13:31:58 | #21 | <LOD | 26 | 38   | 129 |
| V1:10 /2:41  | 2014-04-10 | 13:32:50 | #22 | 7.2  | 20 | 38   | 716 |
| V1:10 /2:41  | 2014-04-10 | 13:33:39 | #23 | <LOD | 24 | 57   | 630 |
| V1:10/2:41   | 2014-04-10 | 15:10:41 | #24 | <LOD | 22 | 151  | 485 |
| B1:10/2:41   | 2014-04-10 | 15:12:04 | #25 | <LOD | 23 | 63   | 137 |
| B1:10/2:41   | 2014-04-10 | 15:13:01 | #26 | <LOD | 23 | 23   | 203 |
| BK1/K2 söder | 2014-04-10 | 15:17:10 | #27 | <LOD | 19 | 26   | 119 |
| BK1/K2 söder | 2014-04-10 | 15:18:15 | #28 | <LOD | 18 | 21   | 90  |

Slutsatser: Diverse XRF-mätningar utförs direkt på makr och beslut tas i fält. Slutprov anges.

Gusum sanering etapp 2a  
XRF-mätning v 16, 2014

| Akuttox/FA            |             | 100        |         |            |          |       |      |      |      |       |  |
|-----------------------|-------------|------------|---------|------------|----------|-------|------|------|------|-------|--|
| MKM                   |             | 25         |         |            |          |       |      |      |      |       |  |
| Korrigerad MKM 80% TS |             | 20         |         |            |          |       |      |      |      |       |  |
| Prov                  | djup m u my | jordart mm | Anmärkn | datum      | tid      | XRFnr | As   | Pb   | Cu   | Zn    |  |
| 2:28/2:29             |             |            |         | 2014-04-15 | 10:23:55 | #4    | <LOD | 28   | 32   | 454   |  |
| 2:28/2:29             |             |            |         | 2014-04-15 | 10:24:48 | #5    | <LOD | 25   | 88   | 110   |  |
| 2:28/2:29             |             |            |         | 2014-04-15 | 10:25:51 | #6    | <LOD | 20   | 17   | 97    |  |
| 2:28/2:29             |             |            |         | 2014-04-15 | 10:26:54 | #7    | <LOD | 24   | 40   | 606   |  |
| 2:28/2:29             |             |            |         | 2014-04-15 | 10:27:48 | #8    | <LOD | 22   | 56   | 956   |  |
| 2:28/2:29             |             |            |         | 2014-04-15 | 10:28:51 | #9    | <LOD | 21   | 12   | 170   |  |
| 2:28/2:29             |             |            |         | 2014-04-15 | 10:29:43 | #10   | <LOD | 28   | 38   | 457   |  |
| 2:28/2:29             |             |            |         | 2014-04-15 | 10:30:42 | #11   | <LOD | 16   | 33   | 369   |  |
| 2:28/2:29             |             |            |         | 2014-04-24 | 13:20:10 | #8    | <LOD | 22   | 40   | 49    |  |
| 2:28/2:29             |             |            |         | 2014-04-24 | 13:21:32 | #9    | <LOD | 18   | 33   | 59    |  |
| 2:28/2:29             |             |            |         | 2014-04-24 | 13:32:02 | #10   | <LOD | 15   | 18   | 42    |  |
| 2:28/2:29             |             |            |         | 2014-04-24 | 14:55:50 | #11   | <LOD | 10,4 | <LOD | 47    |  |
| 2:28/2:29             |             |            |         | 2014-04-24 | 17:28:29 | #13   | <LOD | 15   | 16   | 47    |  |
| 2:28/2:29             |             |            |         | 2014-04-24 | 17:30:11 | #14   | <LOD | 601  | 2225 | 13807 |  |
| 2:28/2:29             |             |            |         | 2014-04-24 | 17:31:19 | #15   | <LOD | 23   | 67   | 464   |  |
| 2:28/2:29             |             |            |         | 2014-04-24 | 17:32:18 | #16   | <LOD | 30   | 115  | 774   |  |

Slutsatser: Utstakning av förorenat område ändrat utifrån XRF-resultat



Gusum sanering etapp 2a

XRF-mätning v 17-20, 2014

| Akuttox/FA            |          | 100         |                 |            |          |       |      |      |       |       |
|-----------------------|----------|-------------|-----------------|------------|----------|-------|------|------|-------|-------|
| MKM                   |          | 25          |                 |            |          |       |      |      |       |       |
| Korrigerad MKM 80% TS |          | 20          |                 |            |          |       |      |      |       |       |
| Prov                  | djup m u | mjordart mm | Anmärkn         | datum      | tid      | XRFnr | As   | Pb   | Cu    | Zn    |
| B2:1 söder            |          |             |                 | 2014-04-29 | 16:25:14 | #5    | 134  | 2477 | 5312  | 12197 |
| Toverum 2:1, 2:2      |          | sand        |                 | 2014-05-06 | 10:47:32 | #4    | <LOD | 217  | 4517  | 3225  |
| Toverum 2:1, 2:2      |          |             |                 | 2014-05-06 | 10:53:27 | #5    | <LOD | 146  | 2670  | 2734  |
| Toverum 2:1, 2:2      |          |             |                 | 2014-05-06 | 10:56:23 | #6    | <LOD | 138  | 3346  | 3812  |
| B2:1 söder            |          |             |                 | 2014-05-06 | 14:19:29 | #8    | <LOD | 888  | 3112  | <LOD  |
|                       |          |             |                 | 2014-05-06 | 14:26:09 | #9    | <LOD | 464  | 3779  | 18776 |
| B 2:1 söder           |          |             | till asfaltkant | 2014-05-06 | 14:26:54 | #10   | <LOD | 349  | 2388  | 13683 |
| B 2:1 söder           |          |             | till asfaltkant | 2014-05-06 | 14:58:27 | #11   | <LOD | 35   | 145   | 511   |
| B 2:1 söder           |          |             | till asfaltkant | 2014-05-06 | 15:00:16 | #12   | <LOD | 304  | 3292  | 11371 |
| div                   |          |             |                 | 2014-05-07 | 13:35:08 | #7    | <LOD | 848  | 3420  | <LOD  |
| div                   |          |             |                 | 2014-05-07 | 13:45:42 | #8    | 32   | 588  | 5469  | 23486 |
| div                   |          |             |                 | 2014-05-13 | 08:22:20 | #5    | <LOD | 1073 | 2950  | <LOD  |
| B1:23                 |          | lera        |                 | 2014-05-13 | 08:41:15 | #6    | <LOD | 62   | 202   | 844   |
| B1:23                 |          | sand        |                 | 2014-05-13 | 08:43:10 | #7    | <LOD | 16   | 60    | 336   |
| div                   |          |             |                 | 2014-05-13 | 08:44:02 | #9    | <LOD | 18   | 131   | 455   |
| div                   |          |             |                 | 2014-05-13 | 08:45:11 | #11   | <LOD | 16   | 62    | 319   |
| div                   |          |             |                 | 2014-05-13 | 08:46:53 | #13   | <LOD | 224  | 17003 | 3323  |
| B1:23                 |          | grå sand    |                 | 2014-05-13 | 08:47:46 | #14   | <LOD | 171  | 14295 | 2623  |
| div                   |          |             |                 | 2014-05-13 | 08:49:59 | #15   | <LOD | 17   | 755   | 277   |
| B1:23                 |          | mot berg    |                 | 2014-05-13 | 08:50:21 | #16   | <LOD | <LOD | 440   | <LOD  |
| div                   |          |             |                 | 2014-05-15 | 13:14:28 | #5    | <LOD | 958  | 2930  | <LOD  |
| B1:23 SV              |          | grsa        |                 | 2014-05-15 | 13:15:18 | #6    | <LOD | 98   | 935   | 2060  |
| B1:23NV               |          | grsa        |                 | 2014-05-15 | 13:24:04 | #7    | <LOD | 42   | 638   | 404   |
| B1:23                 |          | grsa        |                 | 2014-05-15 | 13:27:25 | #8    | <LOD | 28   | 284   | 178   |
| V1:23 NV              | 0,5      | Le          | svart           | 2014-05-15 | 13:31:40 | #9    | <LOD | 34   | 1083  | 437   |
| V1:23 NV              | 0,5      | gr          |                 | 2014-05-15 | 13:34:37 | #10   | <LOD | 30   | 90    | 120   |
| B1:23                 | 1        | le          | brun            | 2014-05-15 | 13:37:56 | #11   | <LOD | 20   | 36    | 103   |

|               |          |      |          |            |          |     |      |     |      |      |
|---------------|----------|------|----------|------------|----------|-----|------|-----|------|------|
| B1:23 Sv hörn | 1        | legr | grå      | 2014-05-15 | 13:40:35 | #12 | <LOD | 33  | 218  | 202  |
| V1:23V        | 0,5      | le   | brun     | 2014-05-15 | 13:44:07 | #13 | <LOD | 52  | 774  | 802  |
| V1:23 S       | slutprov | lesa |          | 2014-05-20 | 13:11:27 | #4  | <LOD | 72  | 4087 | 2491 |
| V1:23 S       | slutprov | lesa |          | 2014-05-20 | 13:13:25 | #5  | <LOD | 28  | 1039 | 471  |
| 01:23         |          |      |          | 2014-05-20 | 13:38:35 | #6  | <LOD | 999 | 2909 | <LOD |
| V1:23V        | slutprov | sa   | grå/brun | 2014-05-20 | 13:44:00 | #7  | <LOD | 17  | 201  | 196  |
| V1:23 S       | slutprov | lesa |          | 2014-05-20 | 13:46:21 | #8  | <LOD | 29  | 4194 | 465  |

Slutsats: Föroreningar kvar i vägg vid 1:23