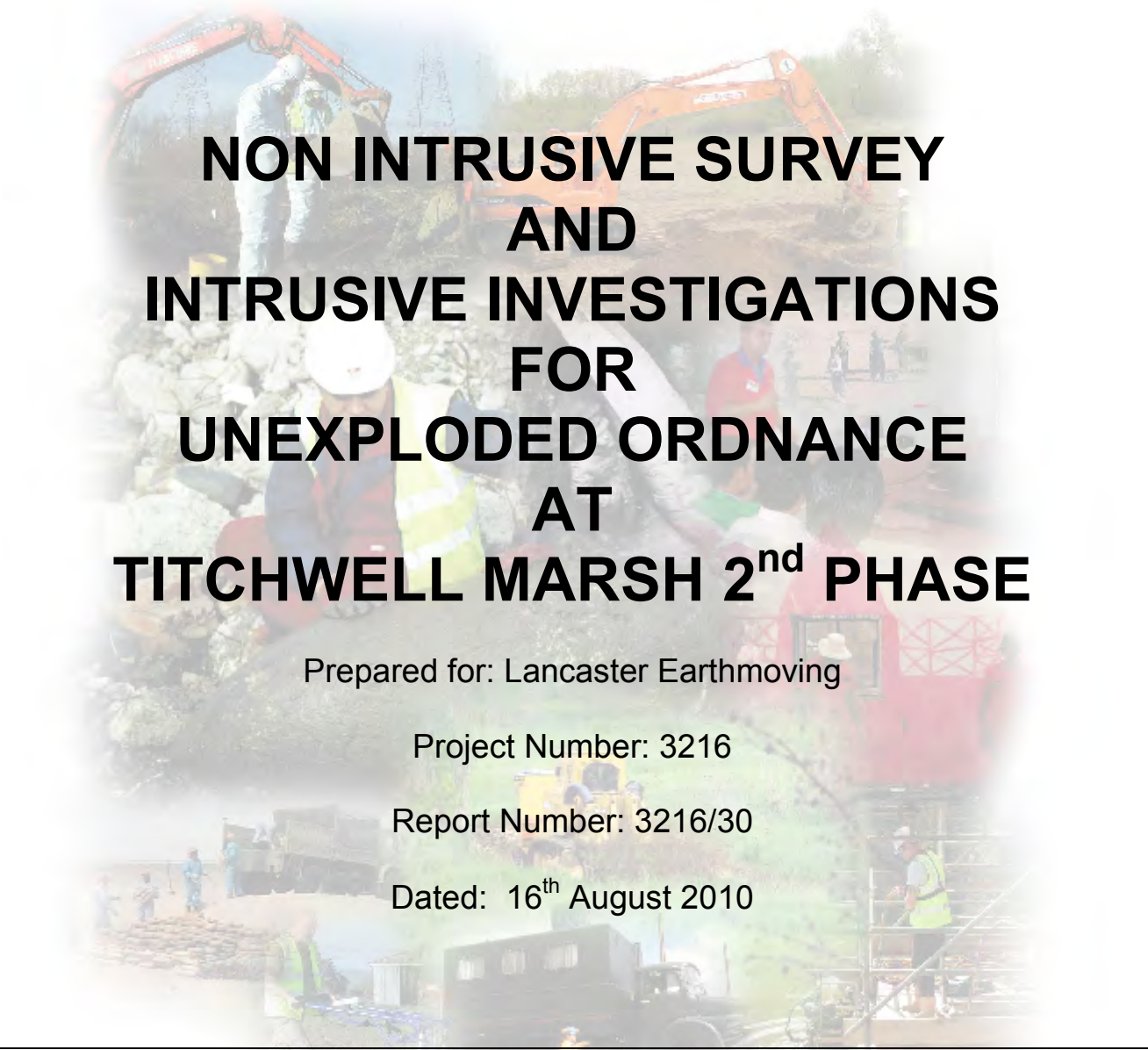

NON INTRUSIVE SURVEY AND INTRUSIVE INVESTIGATIONS FOR UNEXPLODED ORDNANCE AT TITCHWELL MARSH 2nd PHASE

Prepared for: Lancaster Earthmoving

Project Number: 3216

Report Number: 3216/30

Dated: 16th August 2010

DISTRIBUTION

Copy No. 1	Lancaster Earth Moving	
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Checked by:	Steve Bevan	Senior Projects Manager

Issue Dated 16th August 2010

CONTENTS

1 INTRODUCTION

1.1 INSTRUCTION

MACC International Limited, at the request of Lancaster Earthmoving was requested to carryout a non-intrusive magnetometer survey for Explosive Ordnance (EO)/Unexploded Ordnance (UXO) and subsequent investigation of target anomalies at Titchwell Marsh, Norfolk. The survey and subsequent removal of anomalies was carried out for Phase 2 of the construction works.

1.2 SCOPE OF WORK

The purpose of the task was to mitigate the risk of encountering items of EO/UXO during intrusive works within the specified site areas designated 1 to 7. An 8th area was later included by the RSPB representative on site. See Annex A for designated areas.

This report has been specifically prepared for Lancaster Earthmoving, without the benefit of knowing the intentions of any third parties; therefore, it should not be used by such organizations without prior consultation with MACC International Limited.

1.3 The overall task comprised 2 stages;

- Stage 1 was the non-intrusive survey using a 3-channel gradiometer magnetometer together with Sensys™ data acquisition equipment. The areas were surveyed in accordance with the method statement attached at Annex B.
- Stage 2 was the subsequent intrusive investigation of indicated ferromagnetic anomalies also in accordance with the method statement detailed within Annex B.

2 LIMITATIONS

2.1 Reeds which had to be cut prior to commencement of the non intrusive survey within Areas 1, 3, 5, 6 and 7.

2.2 Water logged areas within Areas 5 and 6 which prevented non intrusive survey and were therefore manually checked, for ferromagnetic anomalies, using a M120L magnetometer.

3 THE SURVEY

3.1 Each specified Area was divided into manageable boxes for survey and anomaly investigations (post data analysis).

3.2 Table 1 summarises the results post survey and anomaly investigation (for each area). The actual data maps and anomaly results are detailed in Annex C.

Table 1 Totals for each specified area

Area No	Total No of Anomalies	Total No of EO Items
1	23	3
2	10	2
3	18	1
4	12	1
5	4	0
6	62	9
7	3	0

3.3 The 8th area (situated North of the Parrinder wall) was added by the RSPB site representative. The non intrusive survey was commenced but not completed due to the discovery of a 3" mortar (categorised as live unfuzed) on the surface towards the North sea wall (see Annex D). It was also noted that other items of EO were dispersed on the surface. After consultation between the MACC Technical Advisor and both Lancaster and RSPB site representatives, it was recommended and agreed that a methodical surface clearance was required as a priority over the 8th area.

3.3.1 During the surface clearance, a suspect live hand grenade and land mine were also discovered in addition to 58 other items of EO. The on site MACC representative instigated the callout procedure for the required attendance of an Explosive Ordnance Disposal (EOD) team in order to handover the suspect live EO for their further action. See Attachment 1 for the Ordnance Handover Certificates and Annex E for images of EO recovered.

4 ANOMALY MAPS AND OBJECT LIST

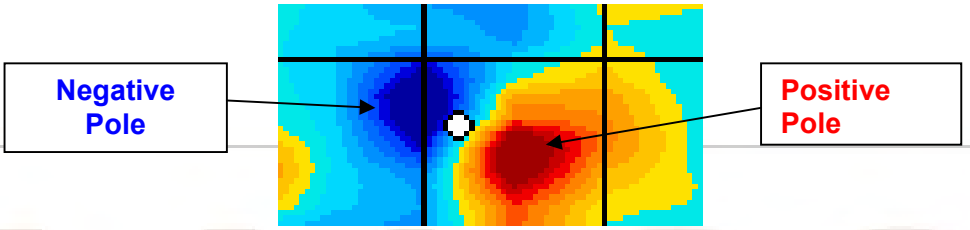
4.1 The anomaly list, detailed in Annex C, is headed with the following:

Nbr.	X m	Y m	Depth m	Diam. m	Volume Litre	Min nT/m	Max nT/m

4.2 The headings represent the following:

- Nbr: Target Number
- X m and Y m: Local grid coordinates
- Depth m: Depth to centre of mass
- Diam m: Diameter of magnetic influence
- Volume ltr: Volume of mass
- Min nT/m and Max n/Tm: Maximum and Minimum readings (n/Tm are NanoTeslas a magnetic scale)

4.3 The anomaly map shows a ferromagnetic object denoting its positive and negative poles.



5 CONCLUSIONS

5.1 The non intrusive survey, data analysis and subsequence clearance of Areas 1 to 7 commenced on the 20th July and was completed on the 5th August 2010 (12.5 working days). The total number of indicated anomalies was 132 of which 16 were items of EO, identified and categorised as 76mm solid shot, 57mm solid shot and 37mm target practice tracer.

5.1.1 Areas 1 to 7 were declared clear for the intended intrusive works to proceed.

5.2 Area 8 was commenced on the 5th August but was cancelled on the discovery of live EO dispersed on the surface of the surrounding area. A surface clearance was completed on the 11th August 2010. In total 61 items were identified and categorised as:

- 1 x 3" mortar live unfused
- 1 x hand grenade possible live
- 1 x possible land mine
- Heavily encrusted unknowns
- 76mm and 57mm solid shot

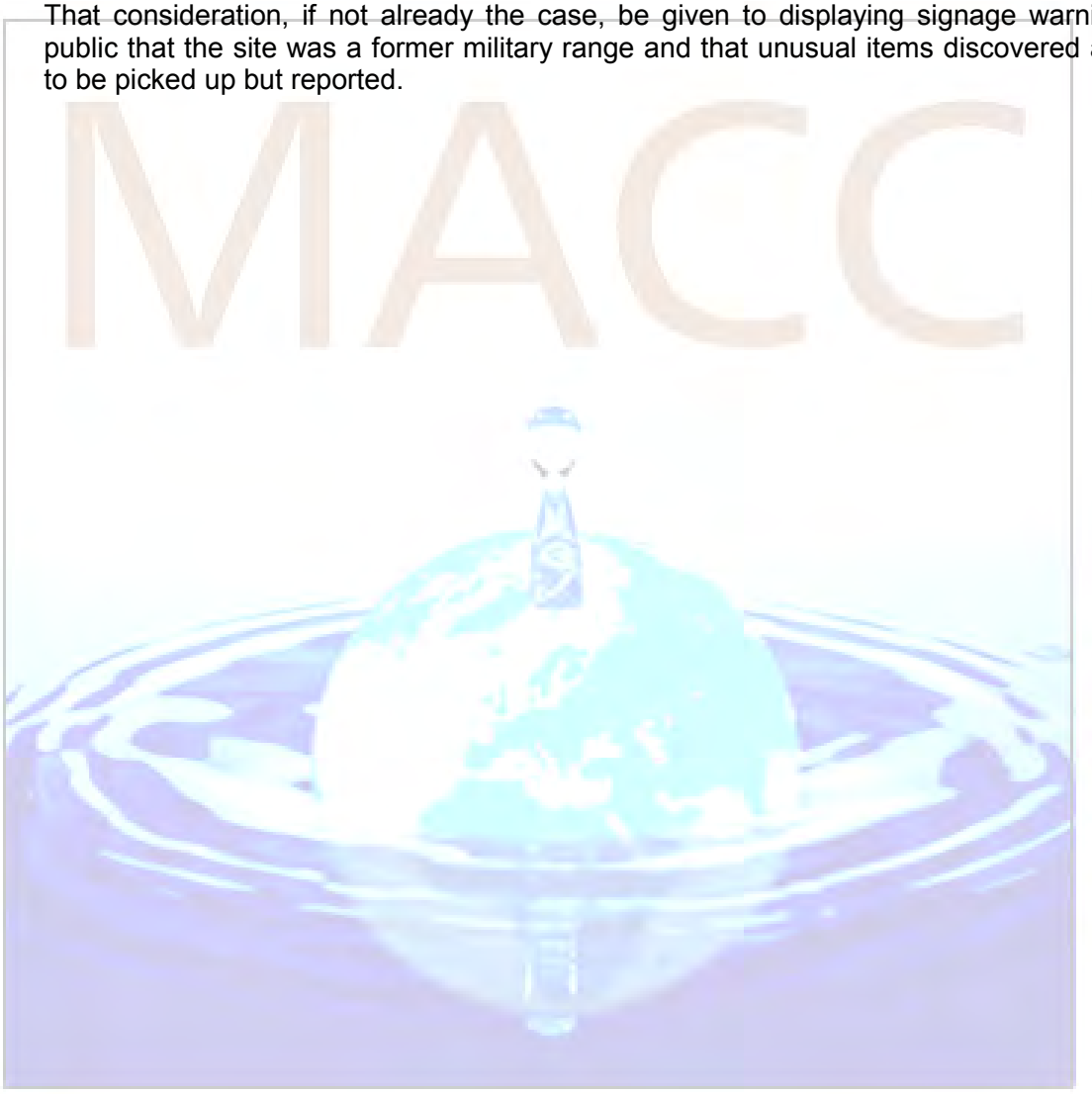
5.2.1 The surface clearance task culminated in the callout of an EOD team from 5131 Squadron Royal Air Force. The MACC representative handed over a total of 77 items of EO for their further action. The EOD team leader made the decision to render safe the items by explosive demolition in situ. Their conclusion, post demolition, was that the 3" mortar and hand grenade were live white phosphorous but the suspect land mine was an item of non EO. The heavily encrusted items were also blown to permit positive identification and the solid shot was removed from site.

5.2.2 The area north of the Parrinder wall has been surface cleared only and is **not clear** for any planned intrusive works.

6 RECOMMENDATION

6.1 For future planned intrusive works, especially north of the Parrinder wall, it is strongly recommended that precautions against encountering items of EO are taken. Live white phosphorous ordnance has now been discovered within the boundary of the RSPB site.

6.2 That consideration, if not already the case, be given to displaying signage warning the public that the site was a former military range and that unusual items discovered are not to be picked up but reported.



SITE AND DESIGNATED AREAS WITHIN

Annex B To
Final Report 2nd Phase
Dated 16th August 2010

METHOD STATEMENT
FOR
NON-INTRUSIVE SURVEY AND INTRUSIVE INVESTIGATION

1 LOCATION

Titchwell Marsh North Norfolk (Post Code PE31 8 – Grid Ref TF755436)

2 CLIENT CONTACT DETAILS

Ian Blything (MD)	01638 552567
Ian Markillie (Site Contact)	07971471490

3 ENVIRONMENTAL RISK ASSESSMENT

MACC is aware that the site is within an RSPB area. The non-intrusive survey is to be carried out on foot using portable equipment and should not have any adverse impacts on the conservation features of the site. Intrusive investigations of target anomalies will be, where possible, carried out by hand.

4 H&S RISK ASSESSMENT

See attached.

5 INTRODUCTION

5.1 The client is planning an enhancement program within an RSPB area of Titchwell Marsh. In order to mitigate the risk of historic Explosive Ordnance (EO) remaining on site, MACC is instructed to conduct a geophysical non-intrusive survey and subsequent intrusive investigation of 7 areas indicated on the attached drawing.

5.2 Areas 1 to 3 will be non-intrusive surveyed and subsequent investigation will be carried out if required.

5.3 Area 4 will be surveyed using a hand held Magnex 120, if multiple indication of ferromagnetic targets are assessed then on discussion with the client a possible full survey will be required.

5.4 Areas 5 and 6 require the reeds mowing, this may be carried out mechanically the area will be non-intrusive surveyed and subsequent investigation will be carried out if required.

5.5 Area 7 will require the reeds cutting this will be carried out by hand and the area will be non-intrusive surveyed and subsequent investigation will be carried out if required.

5.6 Quantity 2 access channels will be surveyed, the location of these access channels has not been agreed.

5.7 Areas will be surveyed and then post processing will be carried out, anomalous readings will be investigated prior to moving to the next area.

5.8 Area priority will be discussed on site.

5.9 MACC will mobilise on Monday 19 July 2010 to start on Tuesday 20 July 2010, the expected duration is 15 working days.

6 AIM

6.1 The aim of this investigation is to geophysical map for any ferromagnetic anomalies and carryout further investigation on ferromagnetic anomalies indicated.

7 MANPOWER and EQUIPMENT

7.1 Manpower will consist of 1 x Senior Technical Advisor and 1 x Technical Advisor.

7.2 Equipment will comprise of a 3 channel gradiometer magnetometer together with SENSYS data acquisition equipment. Where access is restricted, a handheld single channel magnetometer may be used to manually check for ferromagnetic indications.

8 METHODOLOGY NON-INTRUSIVE SURVEY

8.1 The survey team's Senior Technical Advisor is to ensure the site is set up and all datum points are recorded and can be repositioned for the removal of any hotspots.

8.2 The area is to be set out by the MACC survey team the maximum size for boxes will be 50m x 50m.

8.3 The equipment is to be set up and used as per the manufacturer's guidelines.

8.4 All areas are to be swept with a minimum spacing of 0.5m.

8.5 Sweeps will be orientated to a North/South direction where possible.

8.6 Results from the first box of the day is to be downloaded to the laptop and checked prior to further survey work being carried out, or a test area will be utilized.

8.7 At the end of the day, all data collected is to be downloaded to the laptop. A copy of all files is to be sent to MACC head office by the fastest means.

9 METHODOLOGY INTRUSIVE INVESTIGATION

9.1 All suspicious anomalies are to be investigated; hand digging is to be carried out unless the Senior Technical Advisor believes the depth of excavation to be greater than 0.75m or the geo-technical detail necessitates the use of a mechanical excavator. The Senior Technical Advisor is to inform MACC head office and the client of this requirement.

9.2 For all excavations:

9.2.1 The object will be excavated by hand or if by mechanical means, then final hand excavation will be required.

9.2.2 Any shoring required will comply with HSE regulations.

9.2.3 All excavations will be repaired immediately after the excavation process has been completed resulting in there being no excavations being left open at the end of each shift.

9.3 On excavating the object, the MACC Senior representative on site will carry out identification of the suspect object. If the object is confirmed as an item of explosive ordnance he is to:

9.3.1 Inform the site agent and MACC head office.

9.3.2 Carry out the correct reporting procedure as laid down in MACC International Limited EUSOP's for the safe disposal for an Explosive Ordnance item.

9.3.3 Remain on site to assist and advise the police.

9.3.4 Act as an expert witness for the military.

10 SAFETY

10.1 The Senior Technical Advisor is to ensure that all personnel are aware of the hazards involved and the safety measures employed and is to complete a risk assessment prior to work starting. (emphasis on trips and fall hazards).

10.2 If the water level is deeper than knee deep life jackets and dry suits will be worn.

10.3 If asbestos is discovered work is to stop and the client informed immediately.

10.4 PPE for all MACC personnel will be:

Ser	Item	Excavation
1	Working Gloves	Hand and Mechanical
2	Hard Hat	Mechanical and Hand if Below Ground Level
3	High Vis. Vest	Mechanical
4	Safety Glasses	Hand and Mechanical
5	Ear Defenders	Noisy Sites Senior Technical Advisor to decide
6	Dust mask	If asbestos known to be on site
7	Safety Boots	Unless Locators/detectors are to be used

10.5 The hazards of working with mechanical excavators are:

- Be aware of mechanical excavators danger areas e.g. stand outside the slewing distance of the 360° excavator.
- Always stay in the view of the operator.
- Ensure high visibility clothing is worn.
- Do not approach from the rear.
- Do not walk under an extended arm.
- Do not stand in bucket.
- Do not use mechanical excavator for anything other than what it was designed for.
- Brief operator on the underground services in the vicinity of the excavation.
- If overhead cables present, be aware of excavator arm movement at all times and do not excavate within the cordoned off area.

10.6 No excavation below 1.2 metres is to be entered unless:

- Adequate shoring is in place or
- The excavation is stepped/battered back.

11 ACTION ON THE DISCOVERY OF EXPLOSIVE ORDNANCE

11.1 The EOD Supervisor is to carryout safe recognition of the item and will define the items as:

- **Inert** - Safe to move. May be placed in set aside area for handover.
- **Live unfuzed** - Safe to move. Placed in safe area for handover.
- **Live unfired** - Fuzed with safety devices still attached, safe to move. Placed in a safe area for handover.
- **Live fuzed and fired -** Unsafe to move. Left in situ awaiting destruction protective works may have to be instigated.
- **Unknown items -** Are to be deemed as live fuzed and unsafe to move until positive recognition. Left in situ.

11.2 The EOD Supervisor is to inform the client and instigate a safety cordon if required.

11.3 The STA/TA is to then inform the military through the local police of:

- What it is
- Where it is
- Any other actions carried out

12 **REPORTING**

12.1 All items discovered and areas cleared are to be noted on the daily diaries and objects list. A daily report is to be communicated to MACC at the end of each working day.

12.2 Once all anomalies have been investigated and dealt with accordingly, the client is to receive an 'Area Hand-Over' certificate. A copy is to be retained by the STA for site files.

13 ENVIRONMENTAL

13.1 The envisaged environmental impact from the excavation of areas is the discovery of an unknown container. If an unknown container is discovered then it must be checked for leakage.

13.2 **Prior to checking the container the EOD Supervisor will ensure the excavation is safe to enter then don appropriate PPE, the minimum PPE is:**

- Dust Mask
- Eye Protection
- Gloves

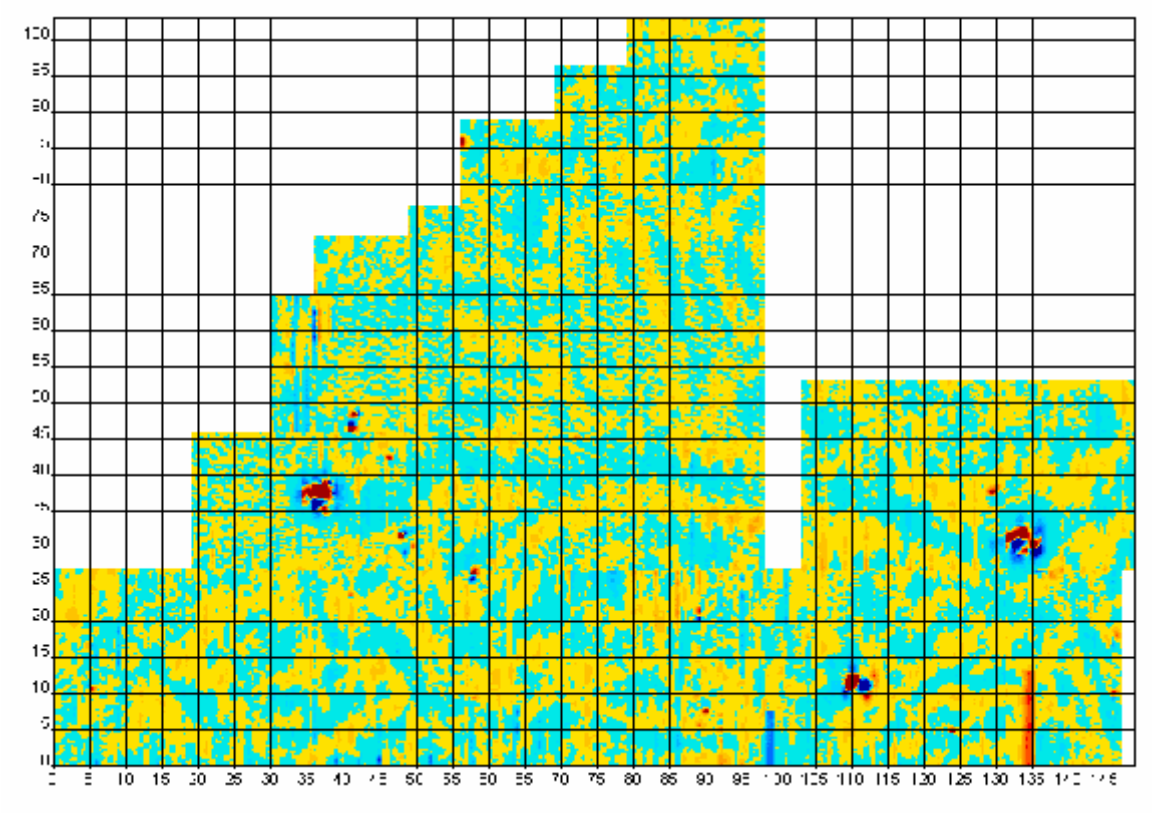
13.3 If no client representative is on site then the container must be secured so as to prevent accidental leakage.

13.4 If the container is leaking then an initial containment of the leakage is to be carried out. The client is then to be informed.

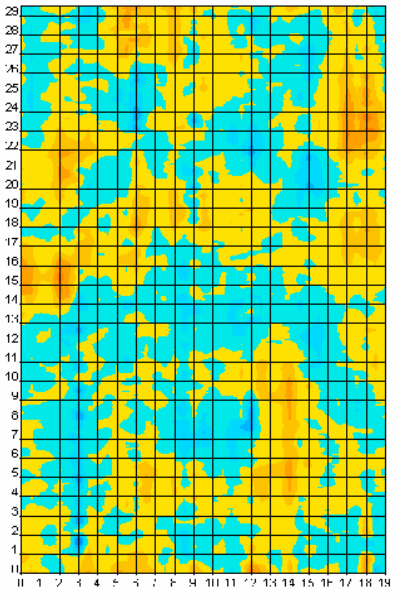
ANOMALY MAPS AND OBJECT LISTS

Area 1

Area 1 was divided into boxes numbered 1 to 12 (1 group of 11 and 1 individual box)

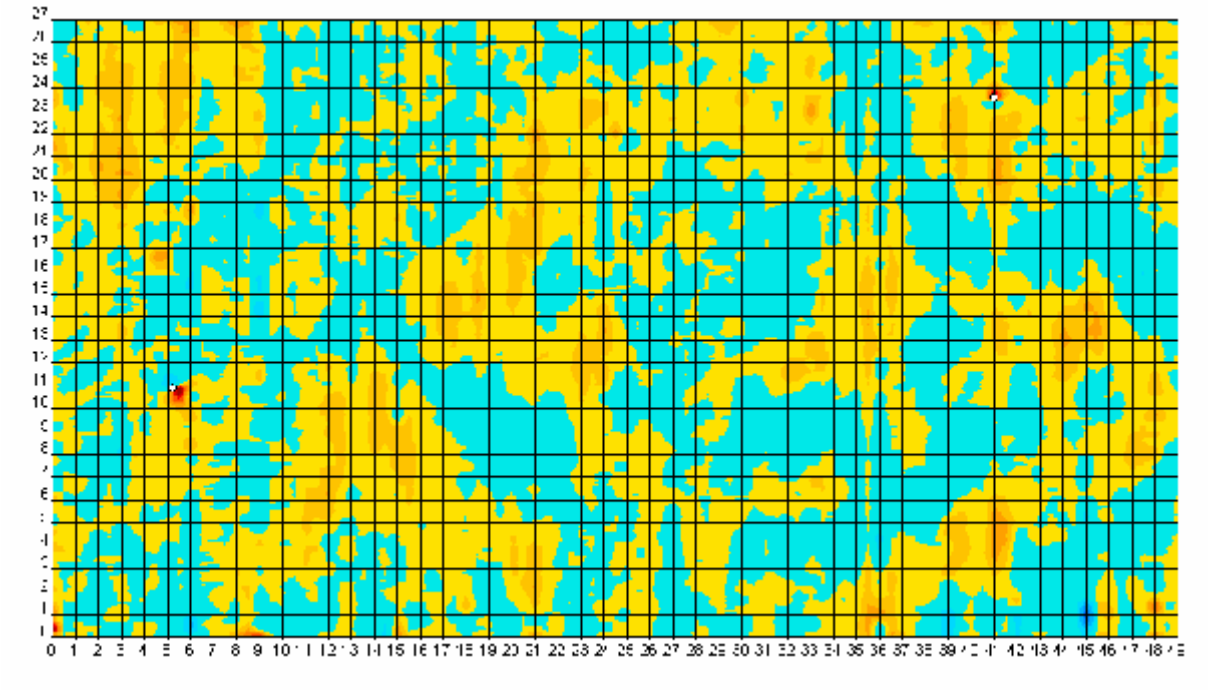


Boxes 1 to 11



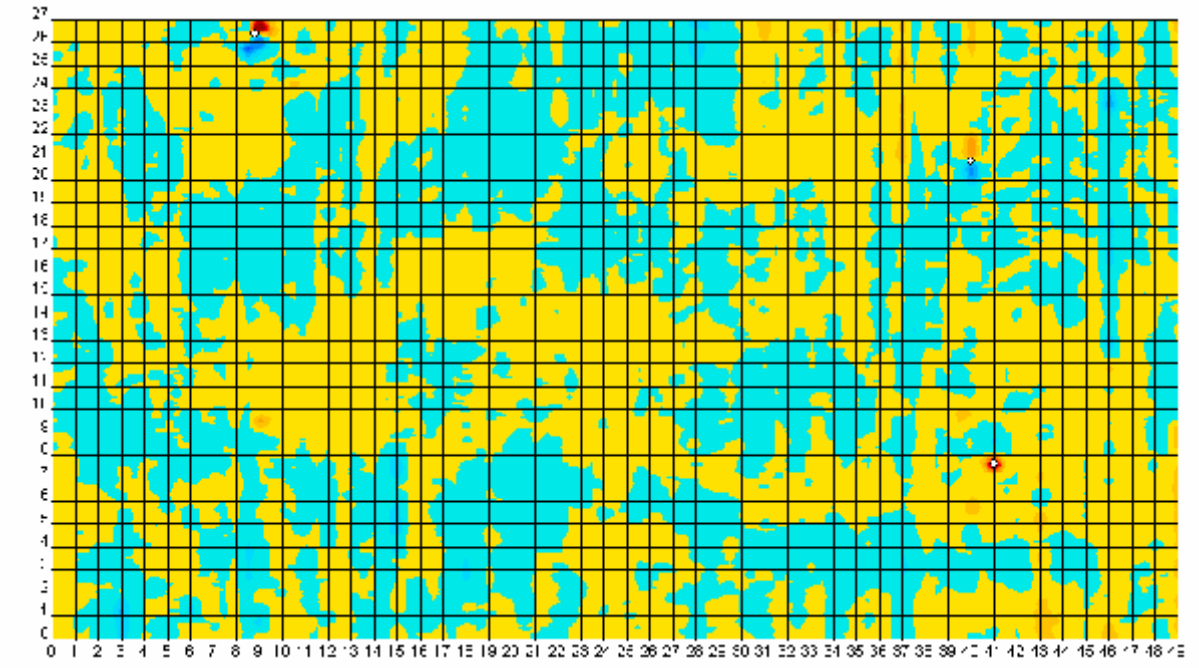
Box 12

Area 1 Box 1



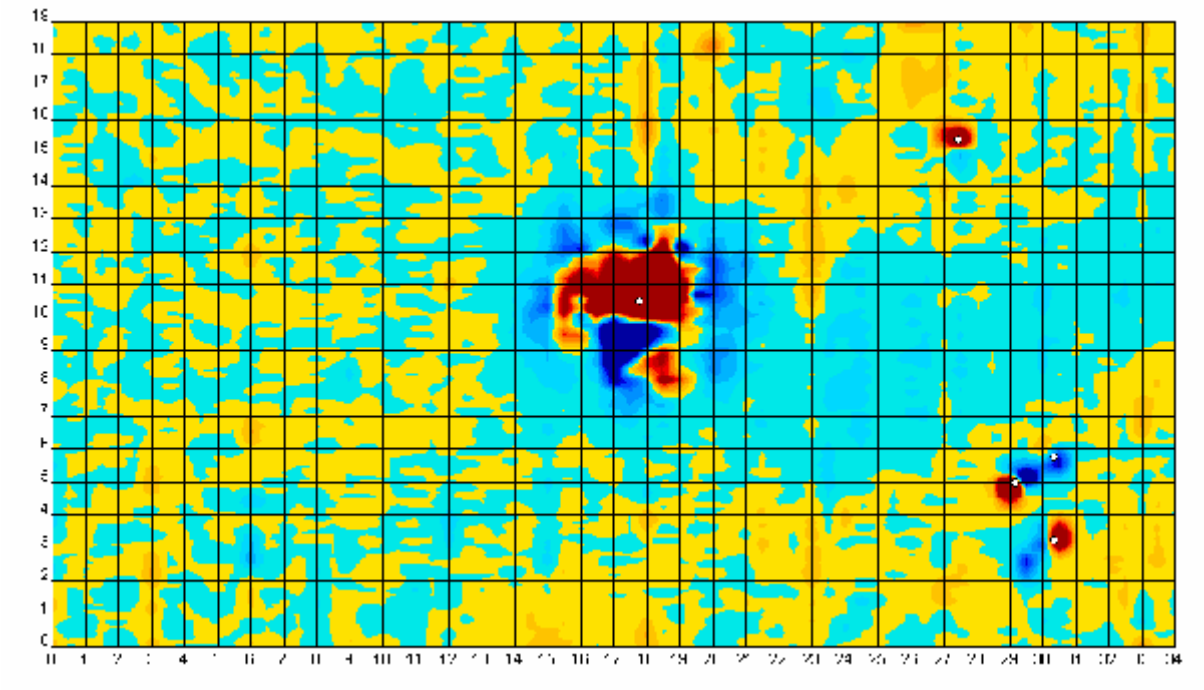
Nbr.	X m	Y m	Depth m	Diam. m	Volume Litre	Remarks
1	5,28	10,89	0,45	0,09	0,4	Steel Pin
2	41,00	23,61	0,30	0,04	0,0	**Projectile 37mm TPT**

Area 1 Box 2



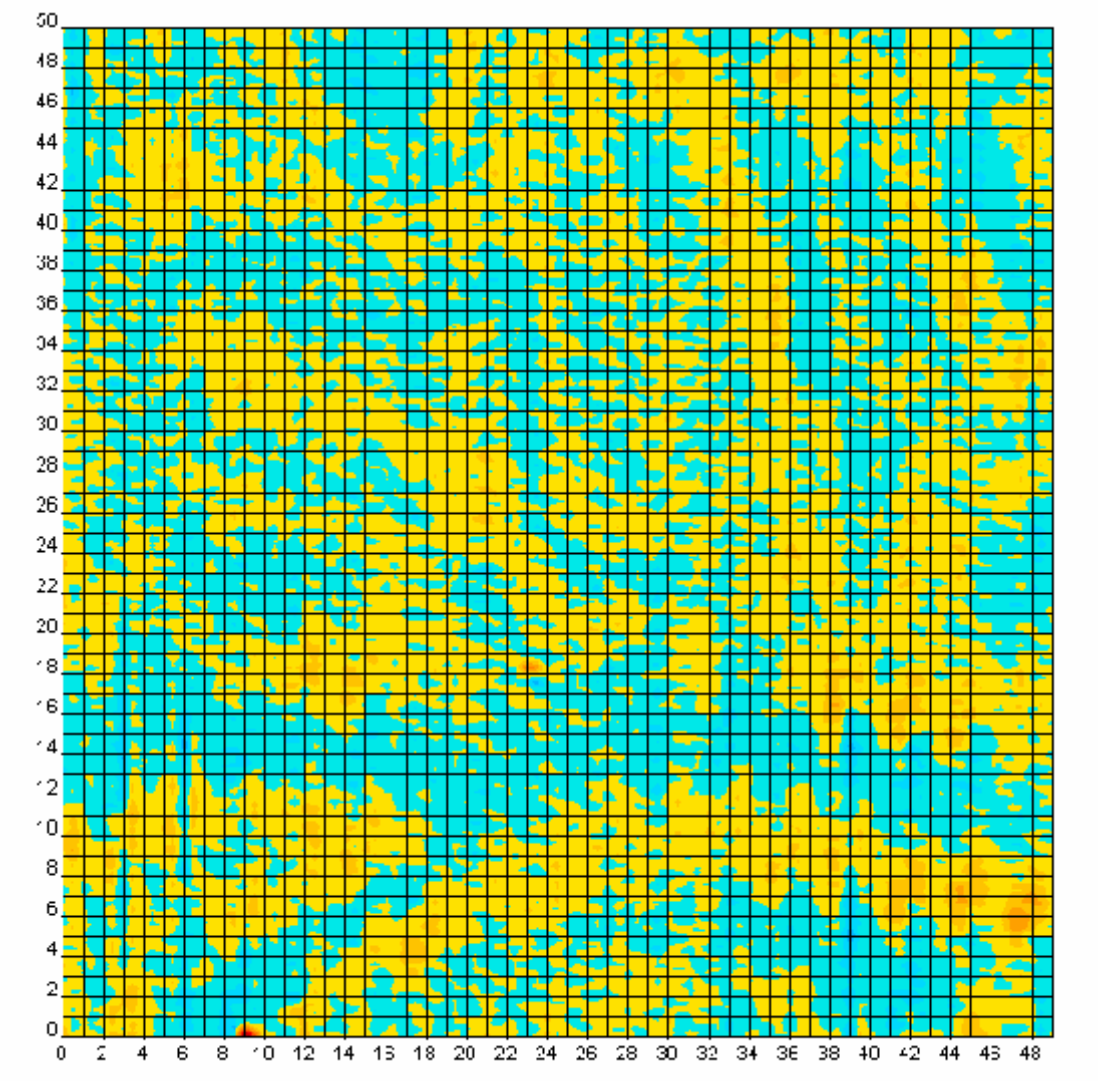
Nbr.	X m	Y m	Depth m	Diam. m	Volume Litre	Remarks
1	8,85	26,40	0,78	0,28	12,1	Metal Plate
2	41,00	7,67	0,66	0,18	3,2	Steel Pin
3	40,00	20,83	0,58	0,14	1,4	Steel Pin

Area 1 Box 3



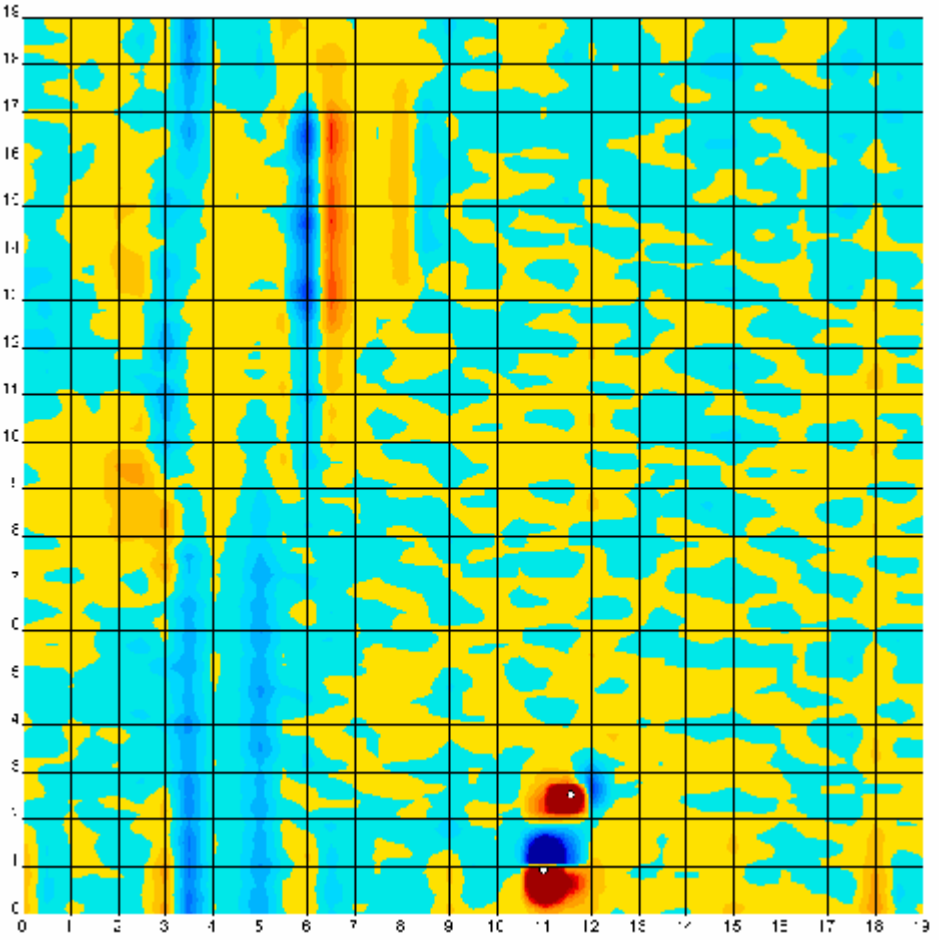
Nbr.	X m	Y m	Depth m	Diam. m	Volume Litre	Remarks
1	27,48	15,39	0,40	0,09	0,3	**Projectile 76mm**
2	29,19	4,99	0,44	0,13	1,2	Steel Pin
3	30,35	3,24	0,39	0,09	0,3	Steel Pin
4	30,37	5,74	0,55	0,11	0,7	Steel Pin
5	17,82	10,50	1,15	0,66	151,5	Foundations

Area 1 Box 4



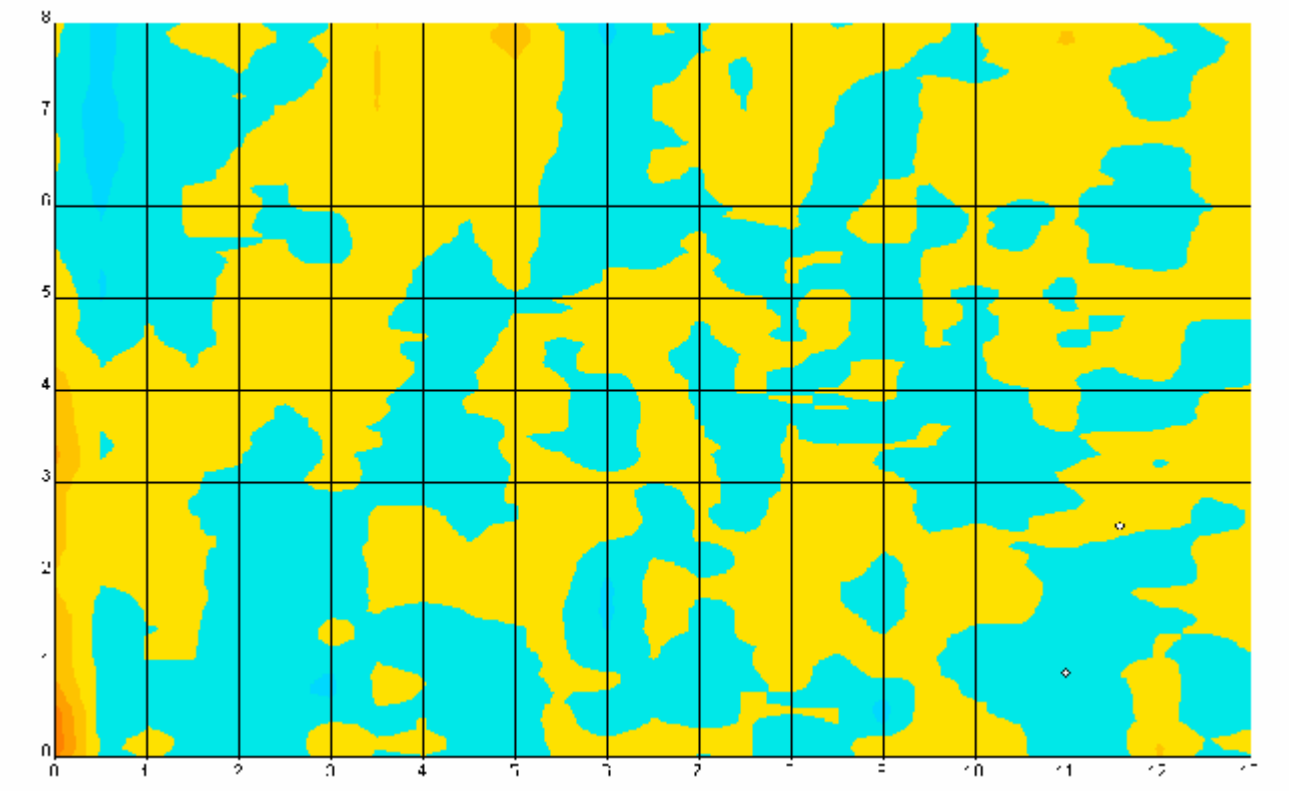
Nbr.	X m	Y m	Depth m	Diam. m	Volume Litre	Remarks
1	8,88	0,21	0,48	0,09	0,4	Metal Plate

Area 1 Box 5



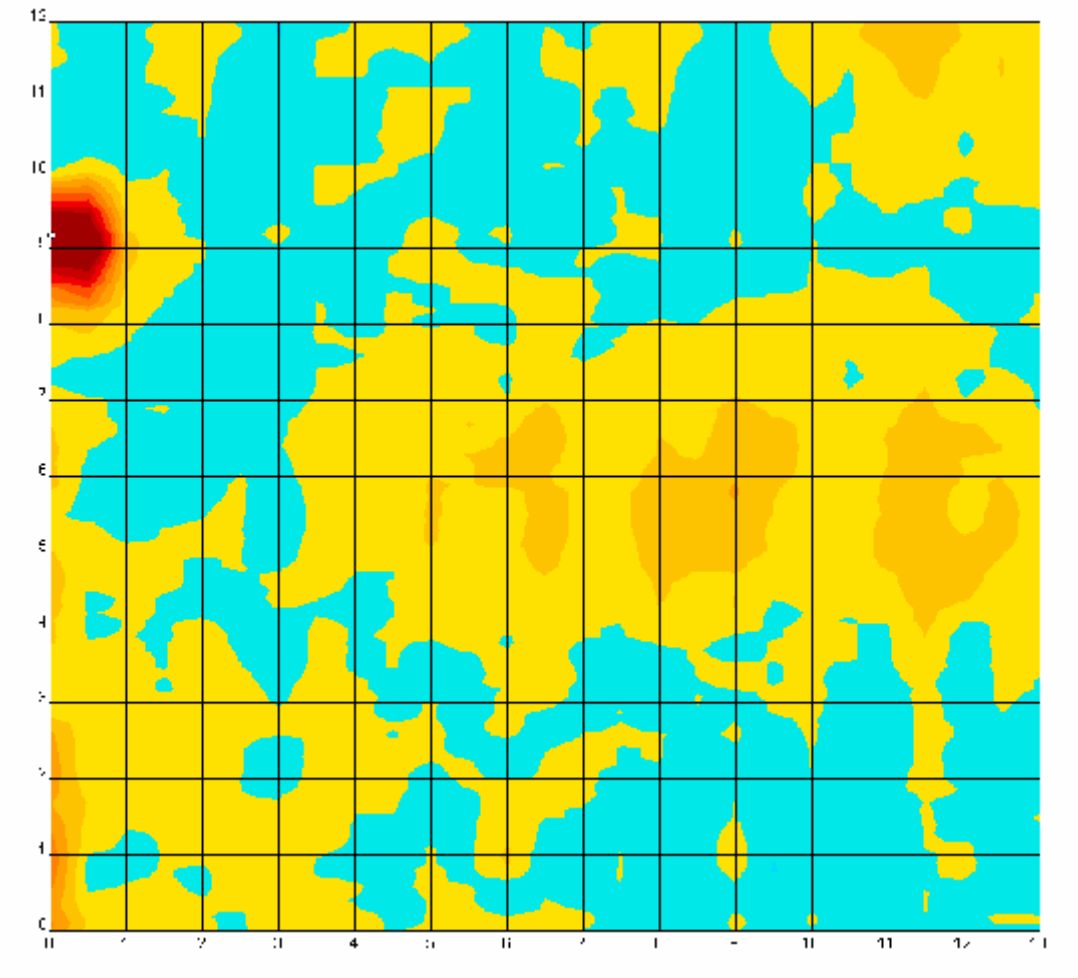
Nbr.	X m	Y m	Depth m	Diam. m	Volume Litre	Remarks
1	11,59	2,52	0,36	0,10	0,5	Steel Pin
2	11,00	0,92	0,38	0,12	0,9	Spike

Area 1 Box 6



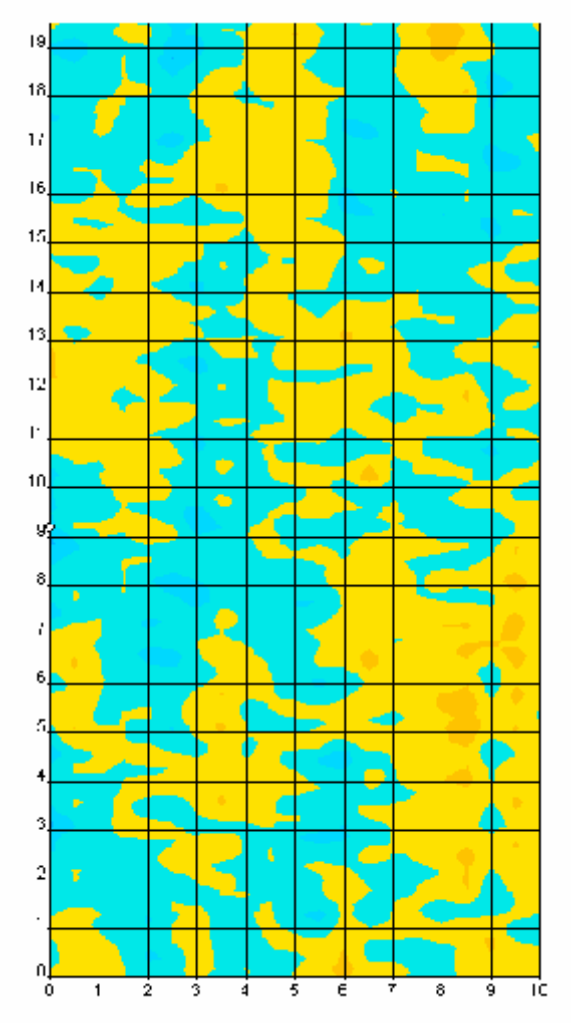
No indicated anomalies for excavation

Area 1 Box 7



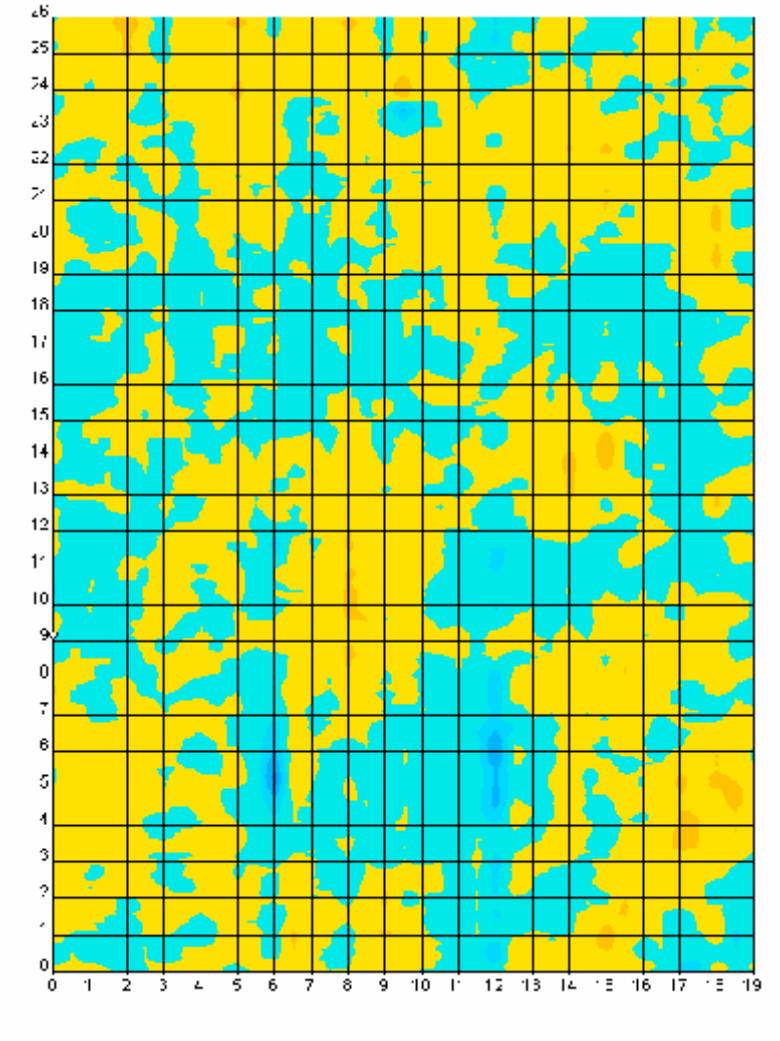
Nbr.	X m	Y m	Depth m	Diam. m	Volume Litre	Remarks
1	0,03	9,19	0,94	0,23	6,6	**Projectile 37mm TPT**

Area 1 Box 8



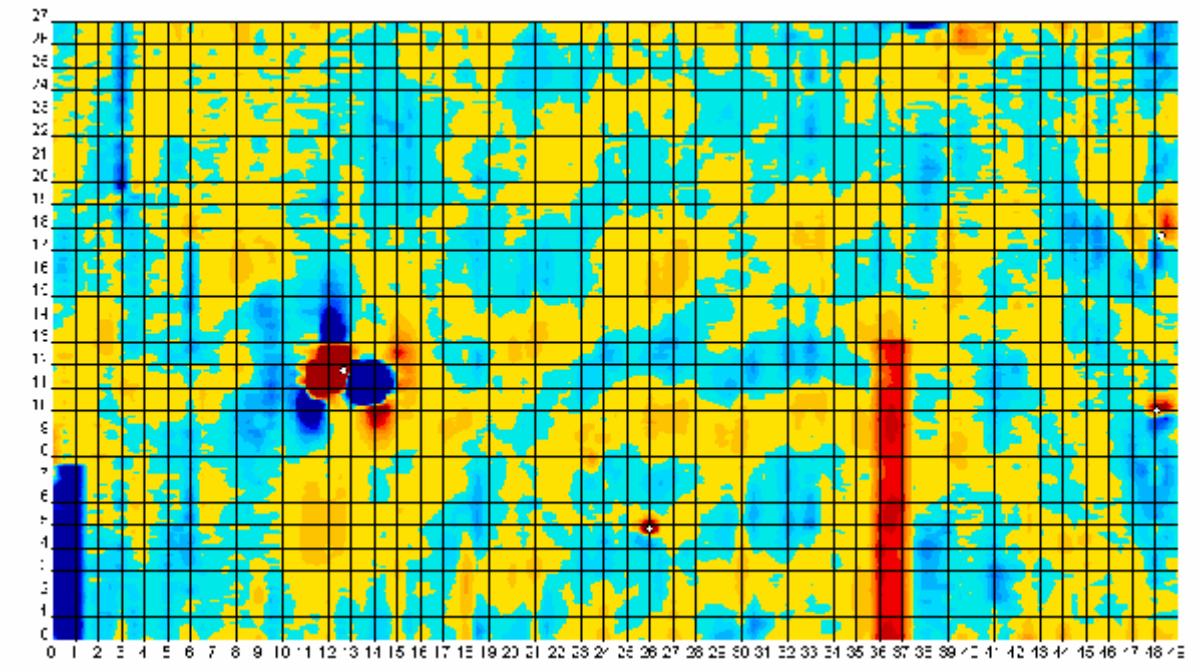
No indicated anomalies for excavation

Area 1 Box 9



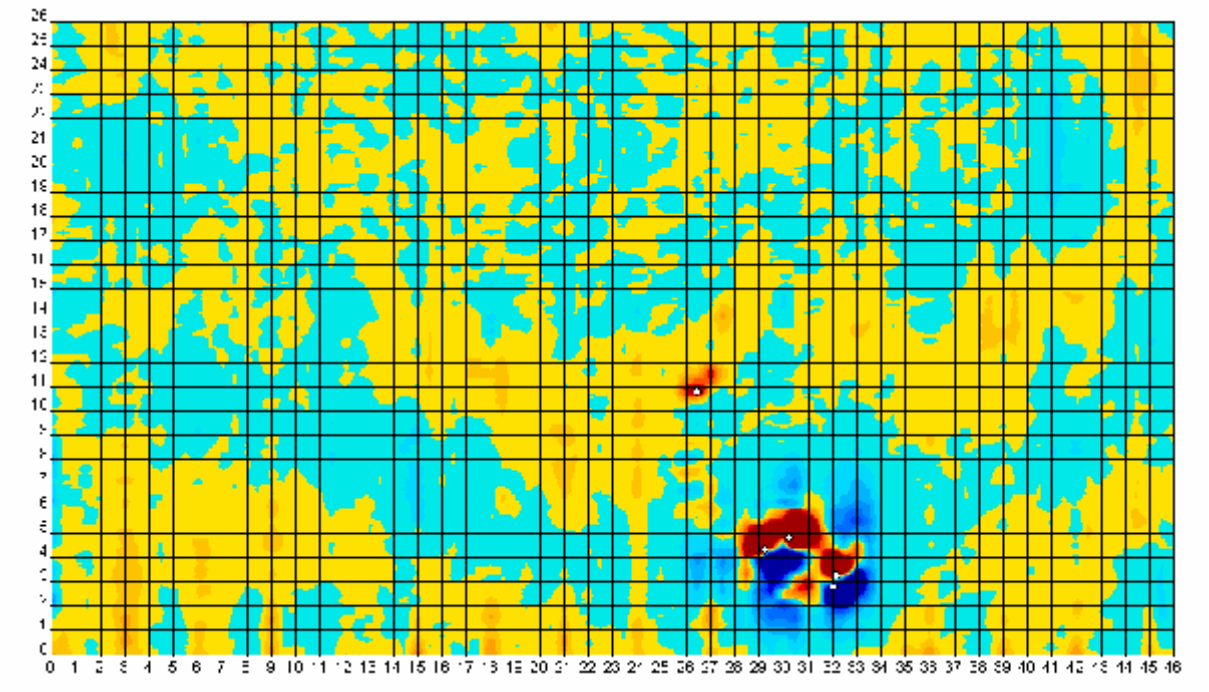
No indicated anomalies for excavation

Area 1 Box 10



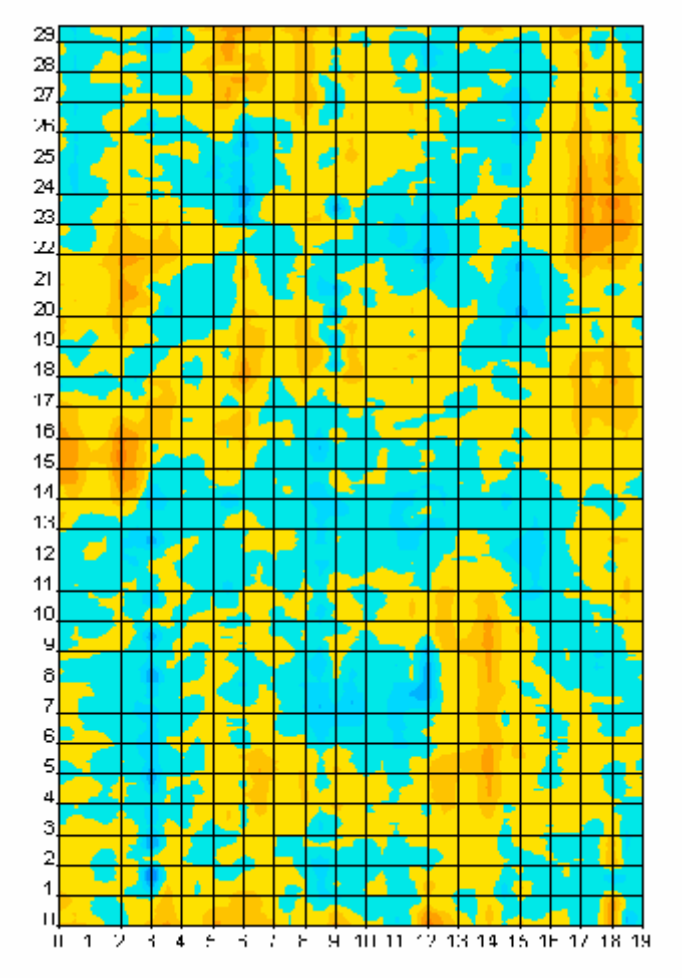
Nbr.	X m	Y m	Depth m	Diam. m	Volume Litre	Remarks
1	12,72	11,78	1,76	1,87	3406,9	Steel bar long
2	26,00	4,82	0,43	0,09	0,4	Steel pipe
3	48,16	10,04	0,52	0,10	0,6	Spade head
4	48,33	17,67	1,06	0,25	8,5	Scrap

Area 1 Box 11



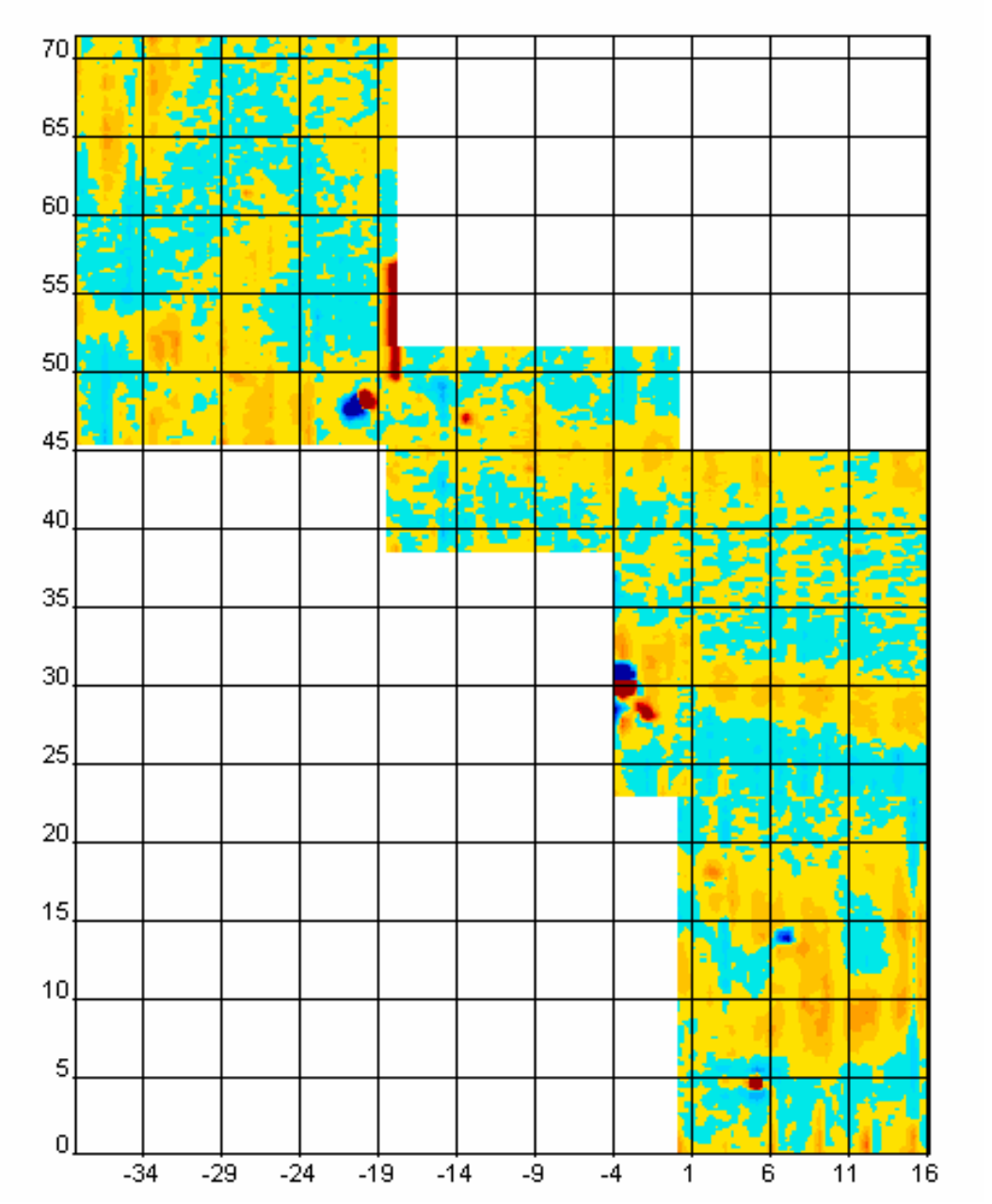
Nbr.	X m	Y m	Depth m	Diam. m	Volume Litre	Remarks
1	26,50	10,80	0,46	0,10	0,5	Red brick foundation
2	29,26	4,32	0,66	0,24	7,1	Red brick foundation
3	30,29	4,77	0,95	0,53	77,9	Red brick foundation
4	32,20	3,27	0,72	0,31	15,7	Red brick foundation
5	32,11	2,80	1,07	0,41	35,5	Red brick foundation

Area 1 Box 12



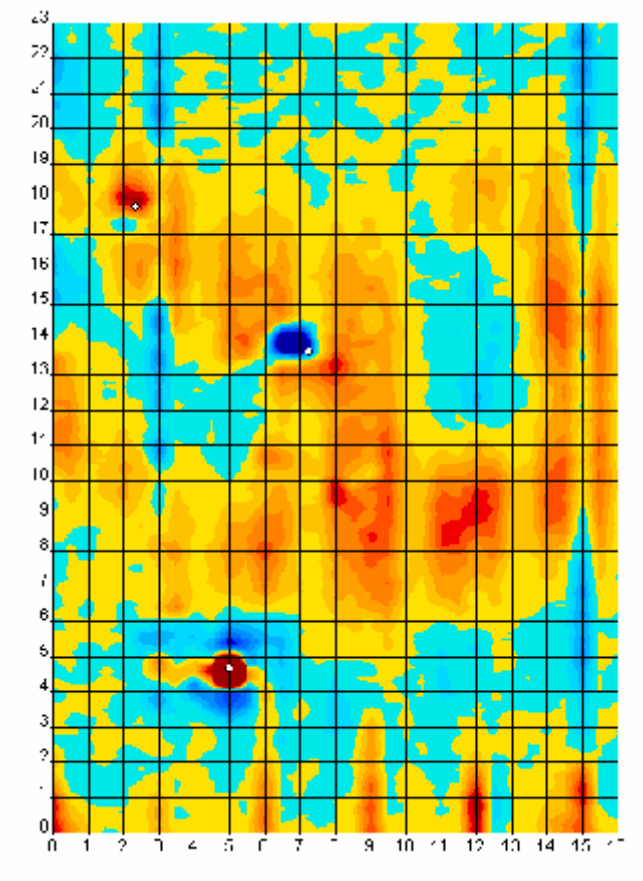
No indicated anomalies for excavation

Area 2



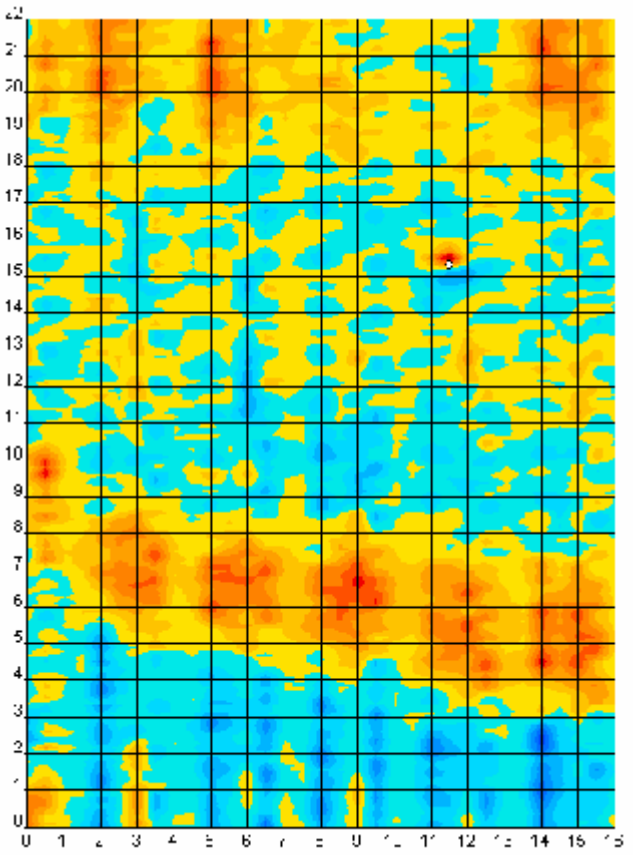
Area 2 was divided into boxes numbered 1 to 5

Area 2 Box 1



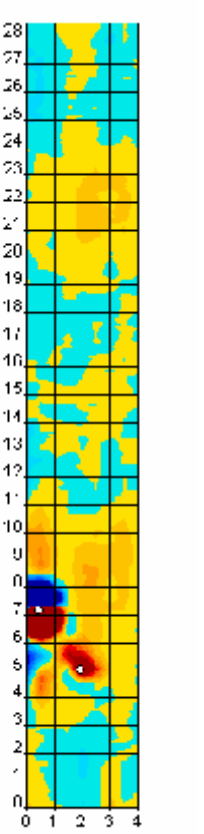
Nbr.	X m	Y m	Depth m	Diam. m	Volume Litre	Remarks
1	5,00	4,69	0,38	0,12	0,9	Pigtail post
2	7,30	13,66	0,78	0,19	3,4	**37mm TPT**
3	2,35	17,82	0,61	0,10	0,5	Iron scrap

Area 2 Box 2



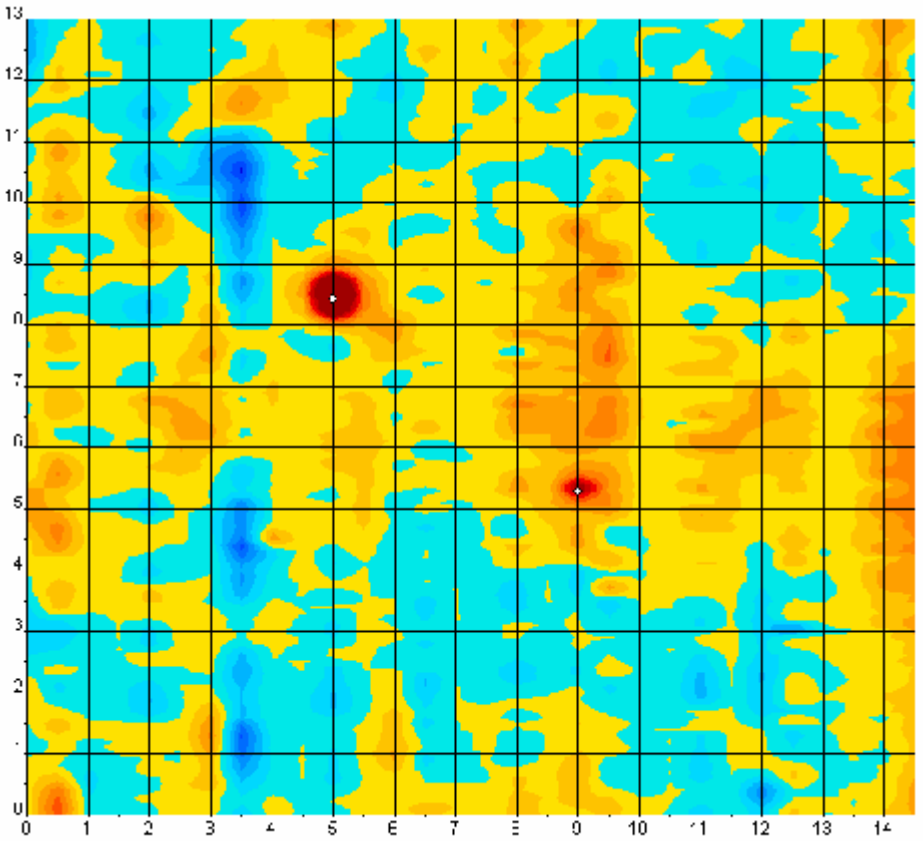
Nbr.	X m	Y m	Depth m	Diam. m	Volume Litre	Remarks
1	11,51	15,33	0,40	0,05	0,1	Tin scrap

Area 2 Box 3



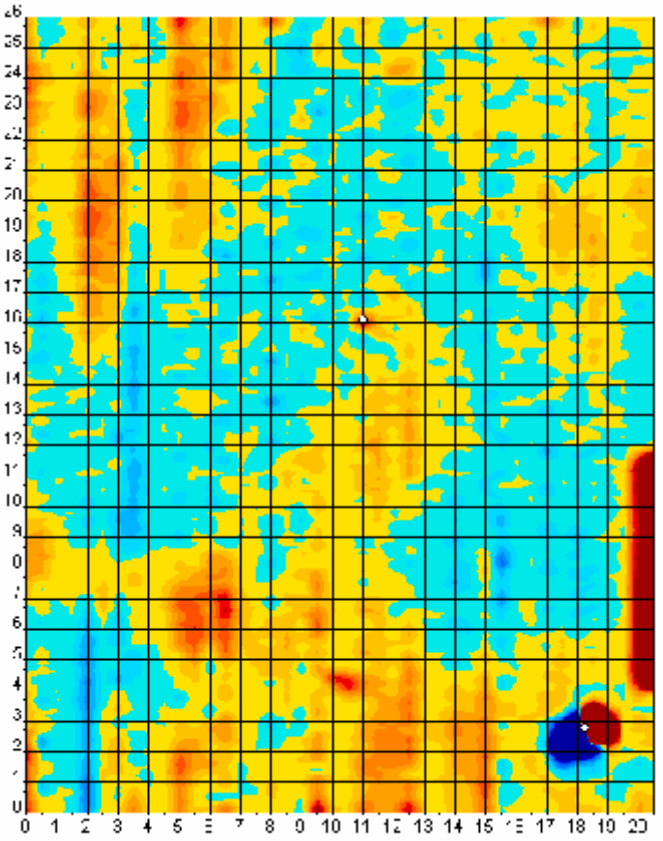
Nbr.	X m	Y m	Depth m	Diam. m	Volume Litre	Remarks
1	0,47	7,21	0,42	0,32	16,5	Pigtail post
2	1,97	5,03	0,37	0,08	0,3	Tin scrap

Area 2 Box 4



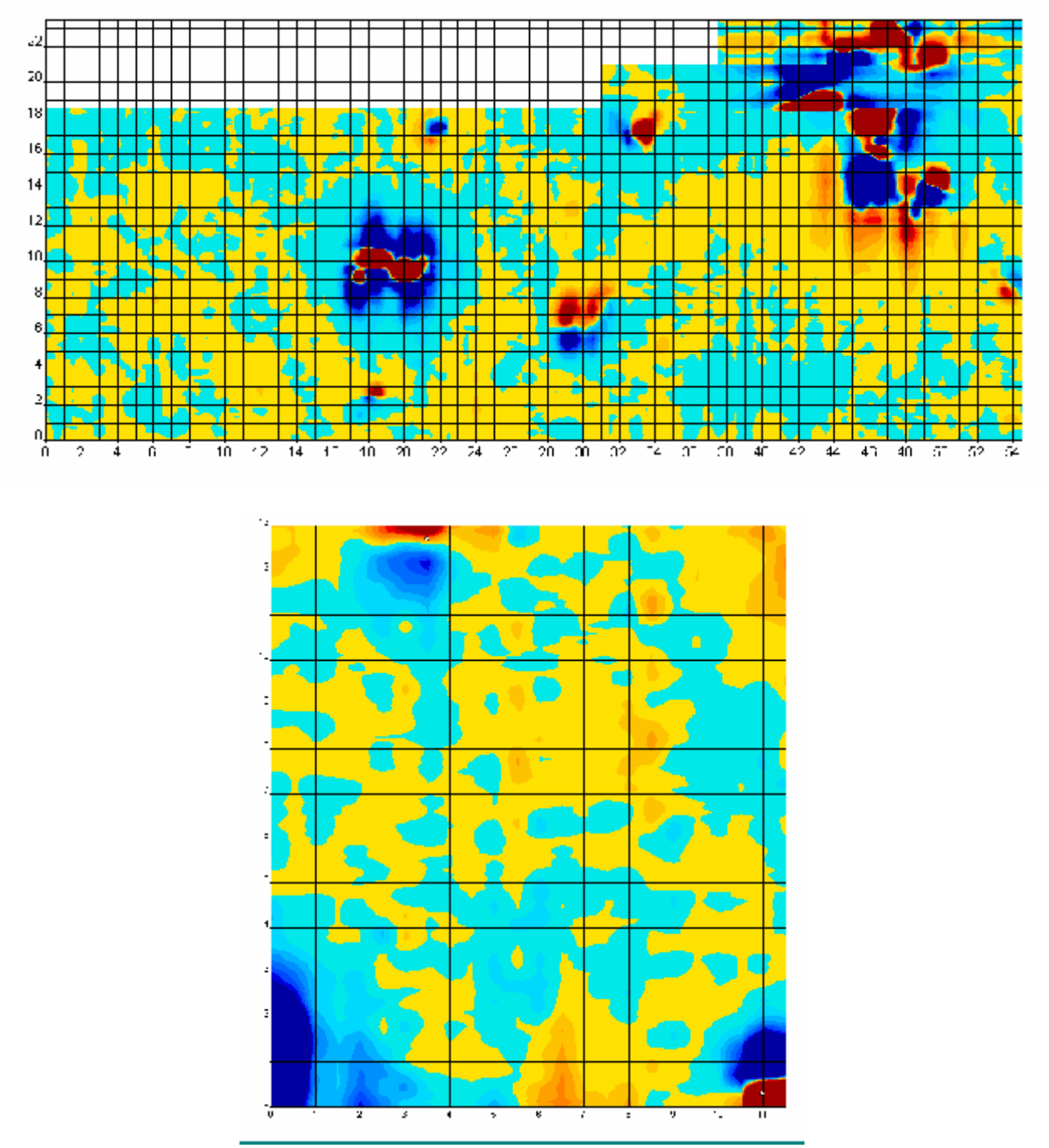
Nbr.	X m	Y m	Depth m	Diam. m	Volume Litre	Remarks
1	5,00	8,45	0,49	0,09	0,4	**Projectile 37mm**
2	9,00	5,30	0,47	0,07	0,1	3” nail

Area 2 Box 5



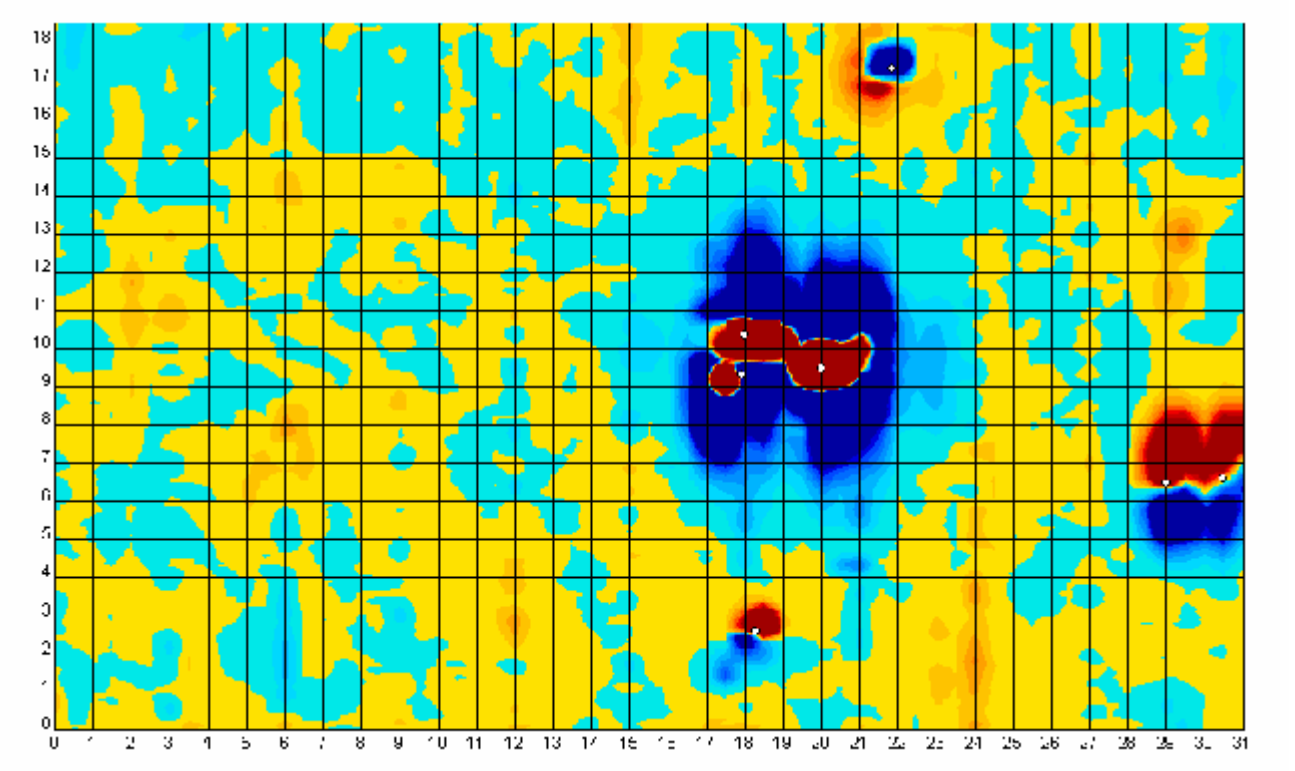
Nbr.	X m	Y m	Depth m	Diam. m	Volume Litre	Remarks
1	18,30	2,76	0,39	0,18	3,0	Large scrap
2	11,00	16,13	0,48	0,07	0,2	Steel picket

Area 3



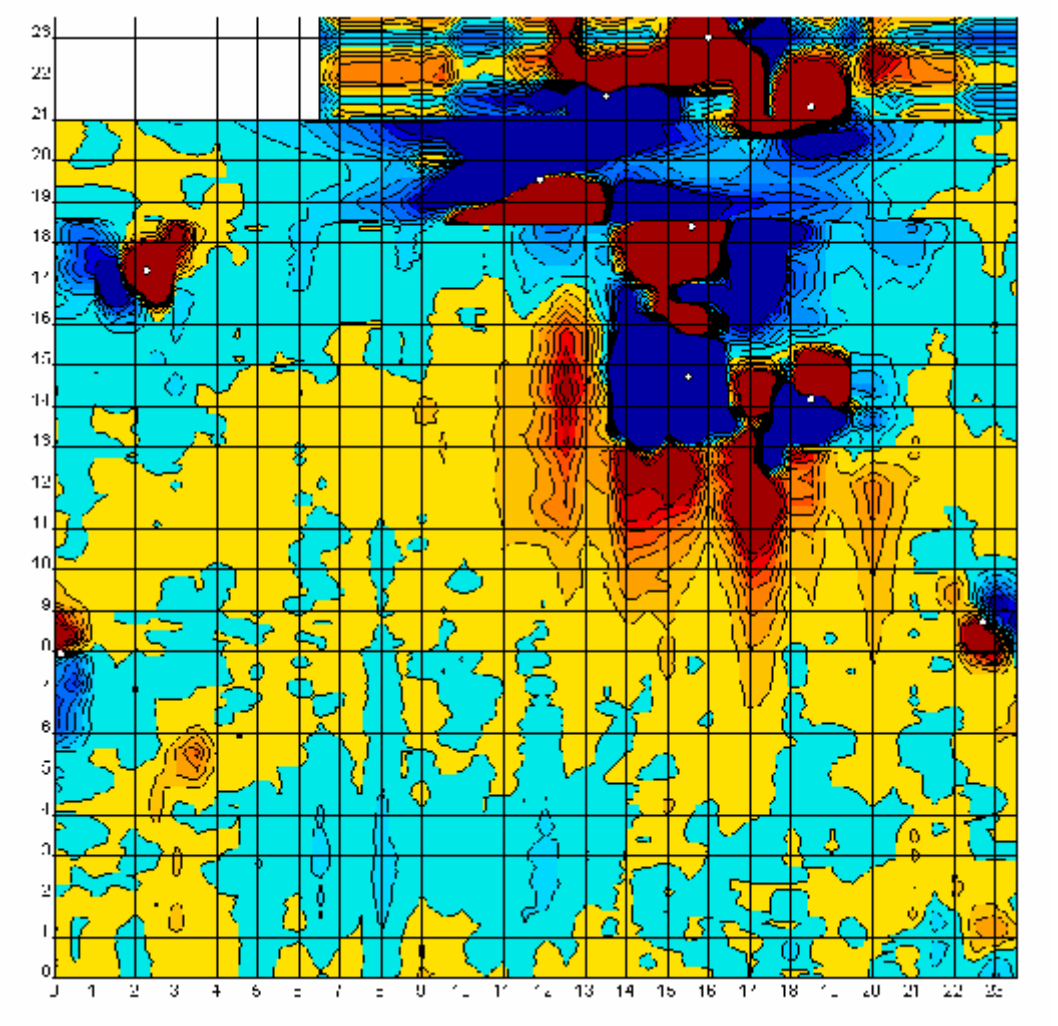
Area 3 was divided in boxes numbered 1 to 2 and a 3rd box named Channel to Area 4

Area 3 Box 1



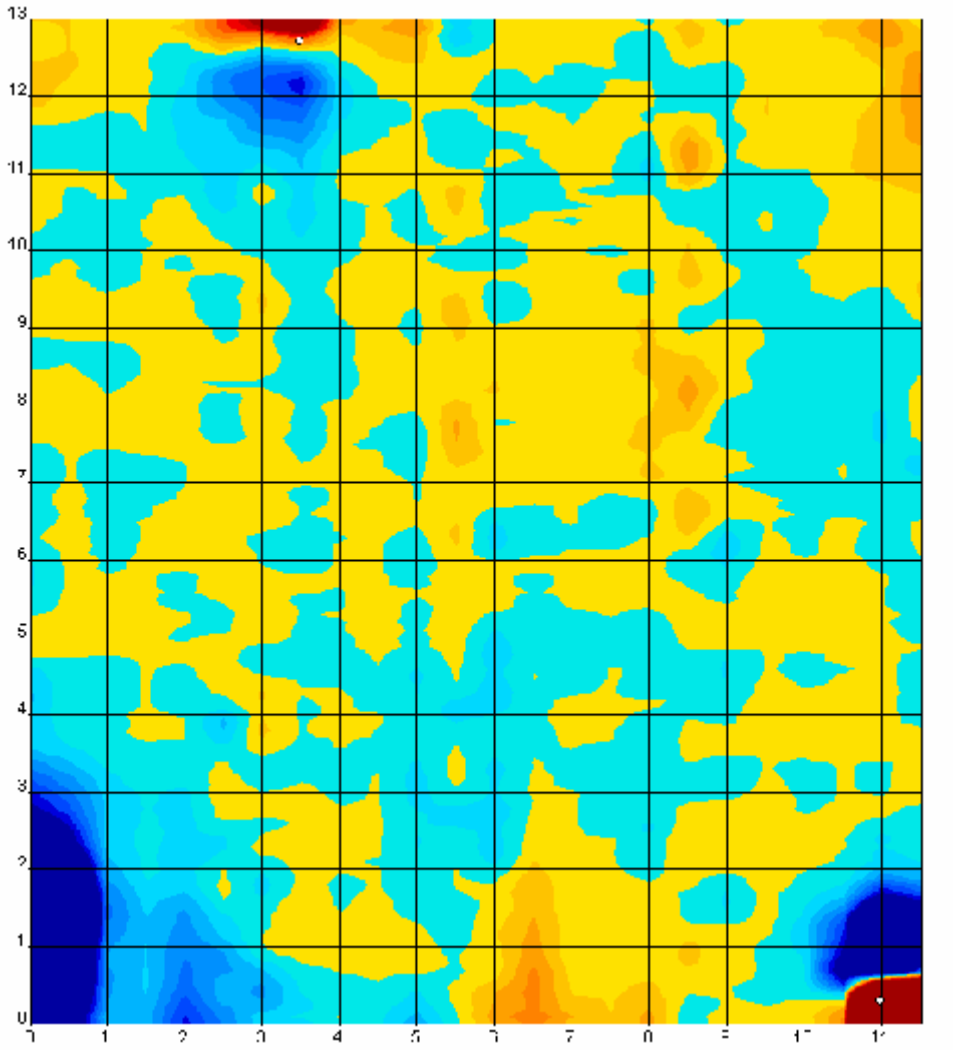
Nbr.	X m	Y m	Depth m	Diam. m	Volume Litre	Remarks
1	18,32	2,59	0,45	0,14	1,4	Post (left in situ)
2	17,94	9,29	0,78	0,48	56,9	Post (left in situ)
3	20,03	9,45	0,58	0,50	65,6	Post (left in situ)
4	18,03	10,34	0,50	0,45	49,2	Post (left in situ)
5	21,87	17,32	0,61	0,21	5,2	**Projectile 37mm**
6	29,00	6,47	1,08	0,48	57,7	Post (left in situ)
7	30,50	6,60	1,23	0,48	56,8	See Area 3 Box 2 (Nbr 1)

Area 3 Box 2



Nbr.	X m	Y m	Depth m	Diam. m	Volume Litre	Remarks
1	0,17	7,91	0,92	0,28	11,0	Bar (left in situ)
2	2,27	17,27	0,73	0,34	20,8	Pipe
3	11,87	19,50	1,44	1,77	2906,7	Scaffold Clamp
4	13,50	21,55	0,70	0,50	63,6	Rail Line
5	16,00	22,99	0,80	0,70	176,6	Rail Line
6	18,50	21,28	0,69	0,29	13,4	Rail Line Sleeper
7	15,59	18,36	0,93	0,76	228,1	Rail Line
8	15,50	14,68	1,31	1,33	1220,4	Rail Line Sleeper
9	18,50	14,13	0,53	0,36	25,1	Rail Line
10	22,69	8,69	0,70	0,21	5,0	Rail Line

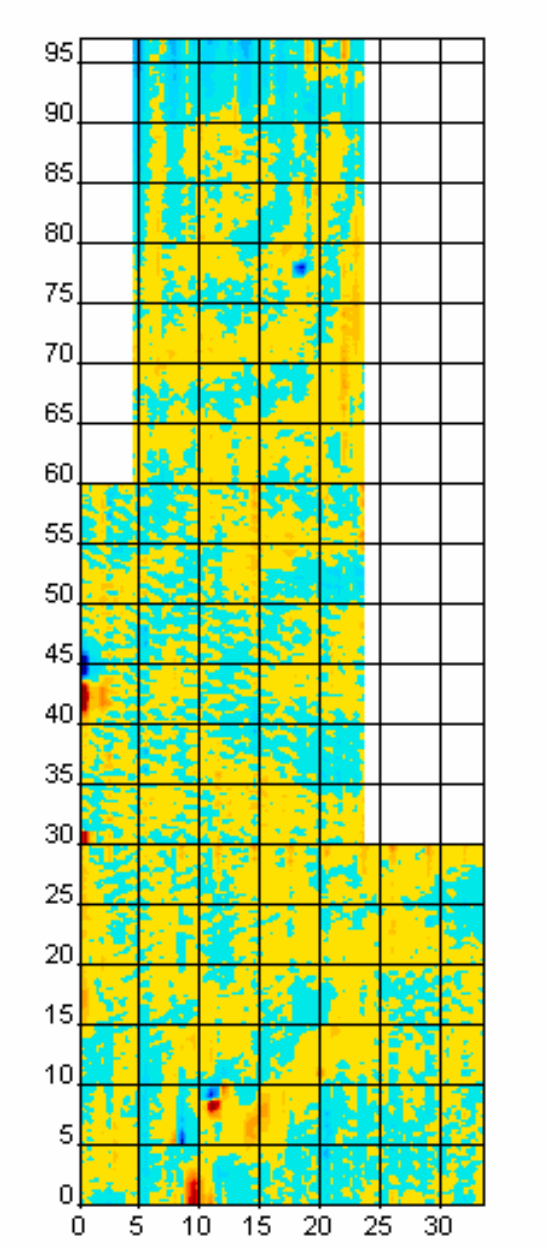
Area 3 Channel to Area 4



Nbr.	X m	Y m	Depth m	Diam. m	Volume Litre	Remarks
1	10,99	0,31	0,85	0,35	23,0	Post
2	3,49	12,73	0,61	0,13	1,2	Pigtail picket

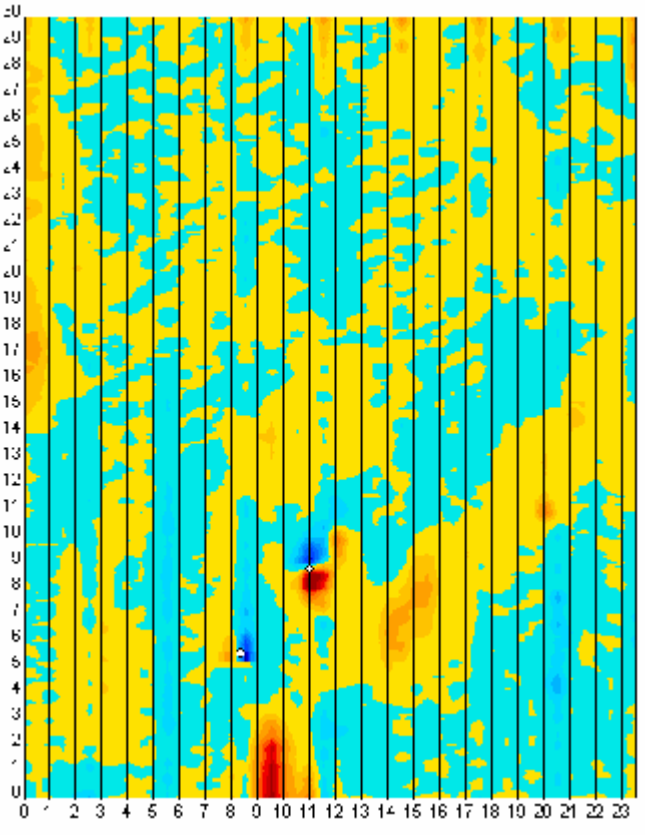
Area 4 did not require a non-intrusive survey but was cleared manually using Magnex 120L magnetometer

Area 5



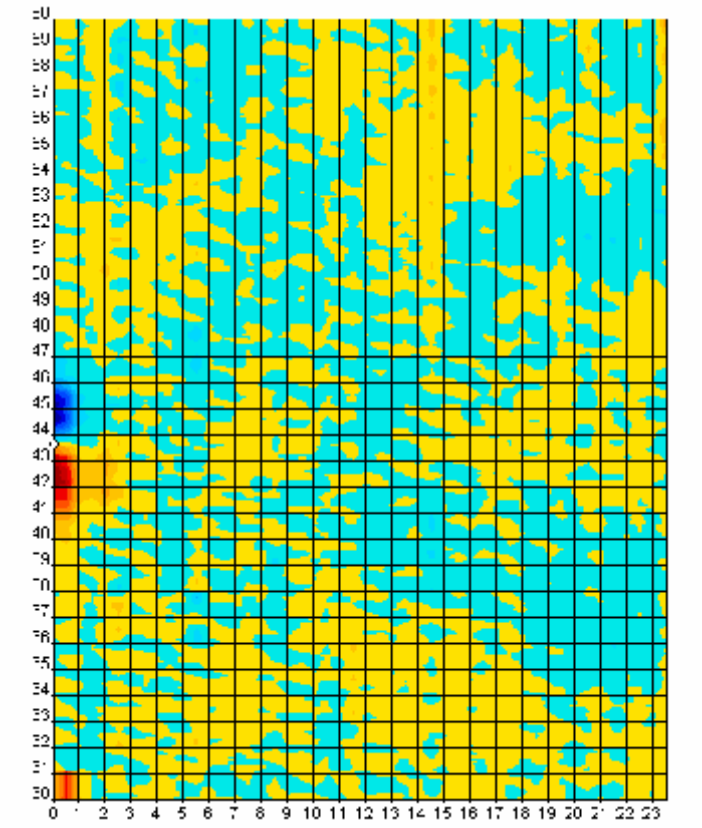
Area 5 was divided into boxes numbered 1 to 4

Area 5 Box 1



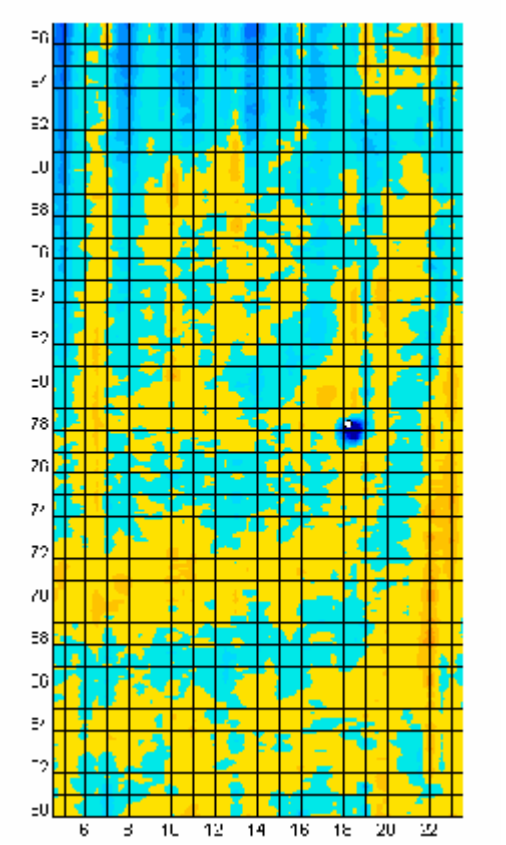
Nbr.	X m	Y m	Depth m	Diam. m	Volume Litre	Remarks
1	10,98	8,79	0,56	0,14	1,3	Cast iron scrap
2	8,34	5,56	0,38	0,07	0,2	Too small

Area 5 Box 2



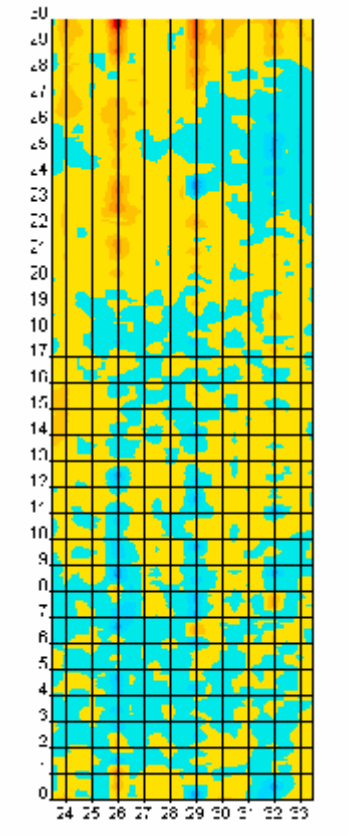
Nbr.	X m	Y m	Depth m	Diam. m	Volume Litre	Remarks
1	0,00	43,71	1,54	0,61	119,3	Too deep in water logged area

Area 5 Box 3



Nbr.	X m	Y m	Depth m	Diam. m	Volume Litre	Remarks
1	18,23	78,35	1,41	0,38	29,5	Iron scrap

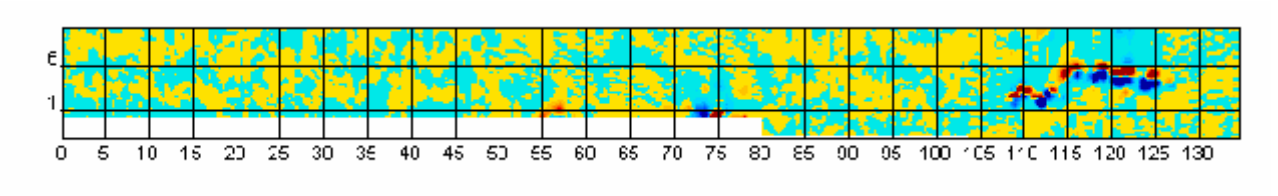
Area 5 Box 4



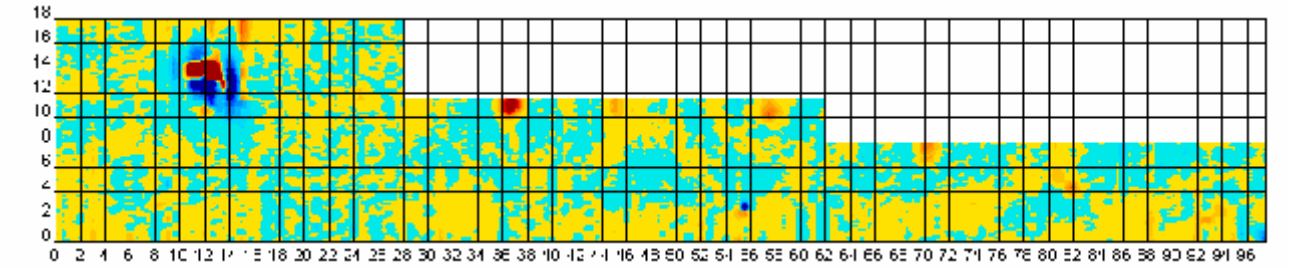
No anomalies indicated for excavation

Area 6

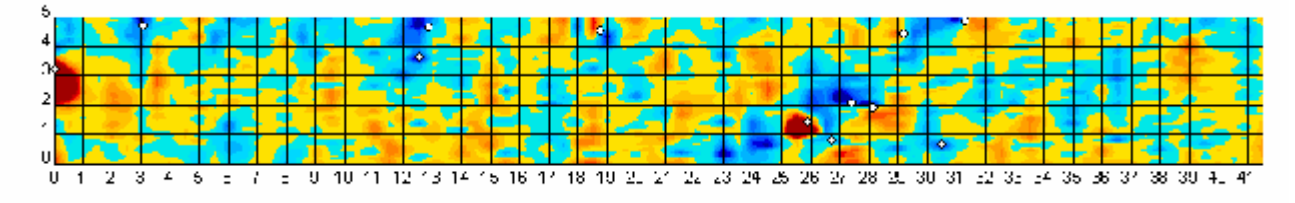
Area 6 was divided into boxes numbered 1 to 10 (2 groups of 4 and 2 individual boxes)



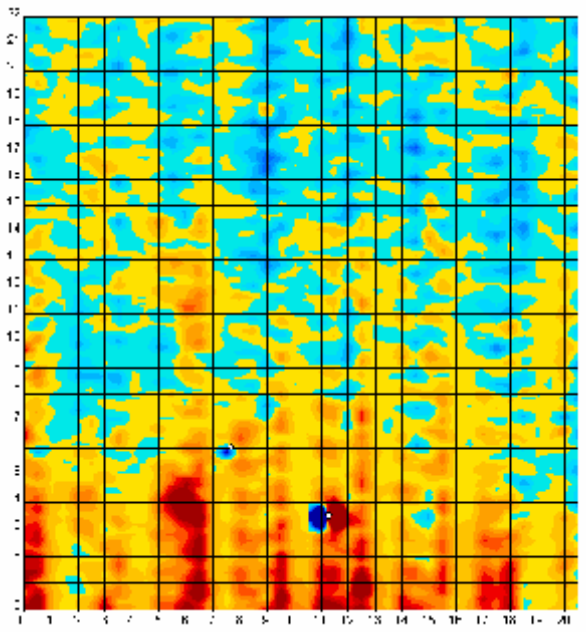
Boxes 1 to 4



Boxes 5 to 8

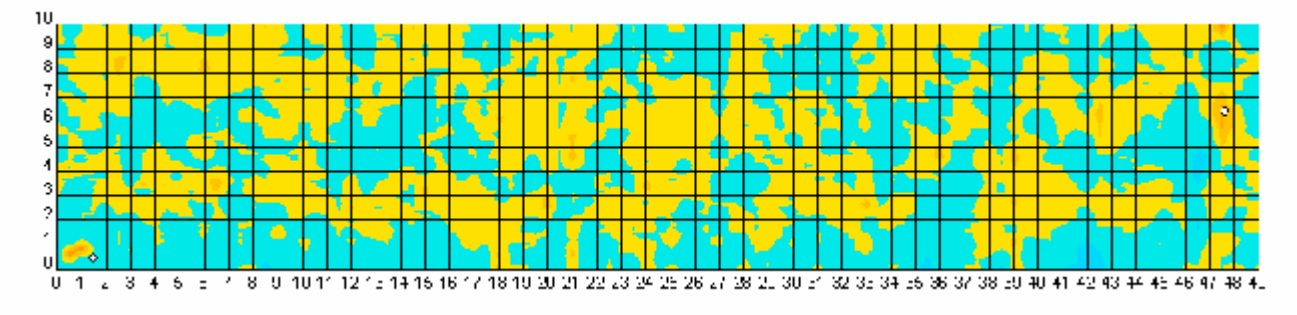


Box 9



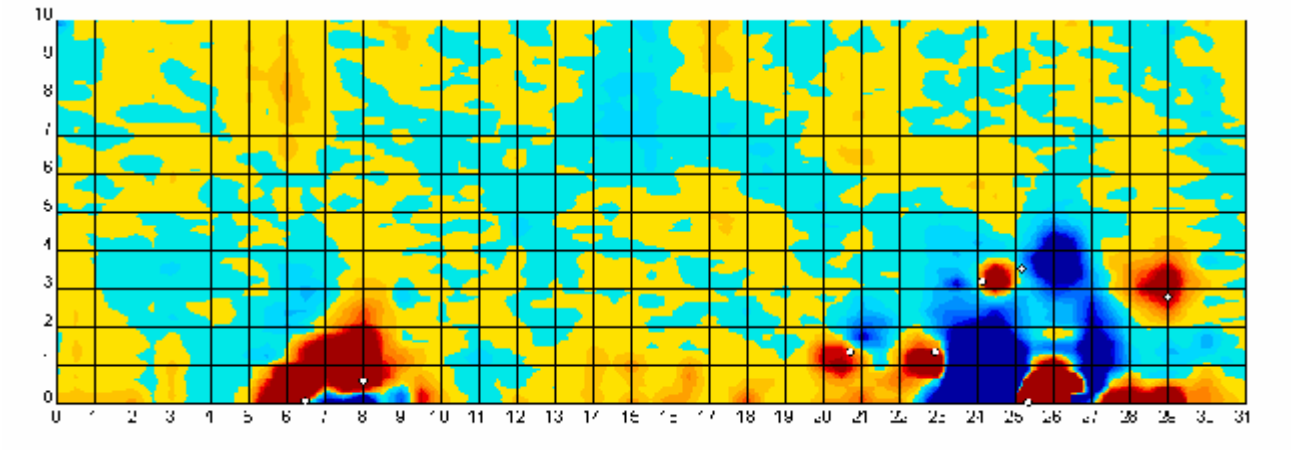
Box 10

Area 6 Box 1



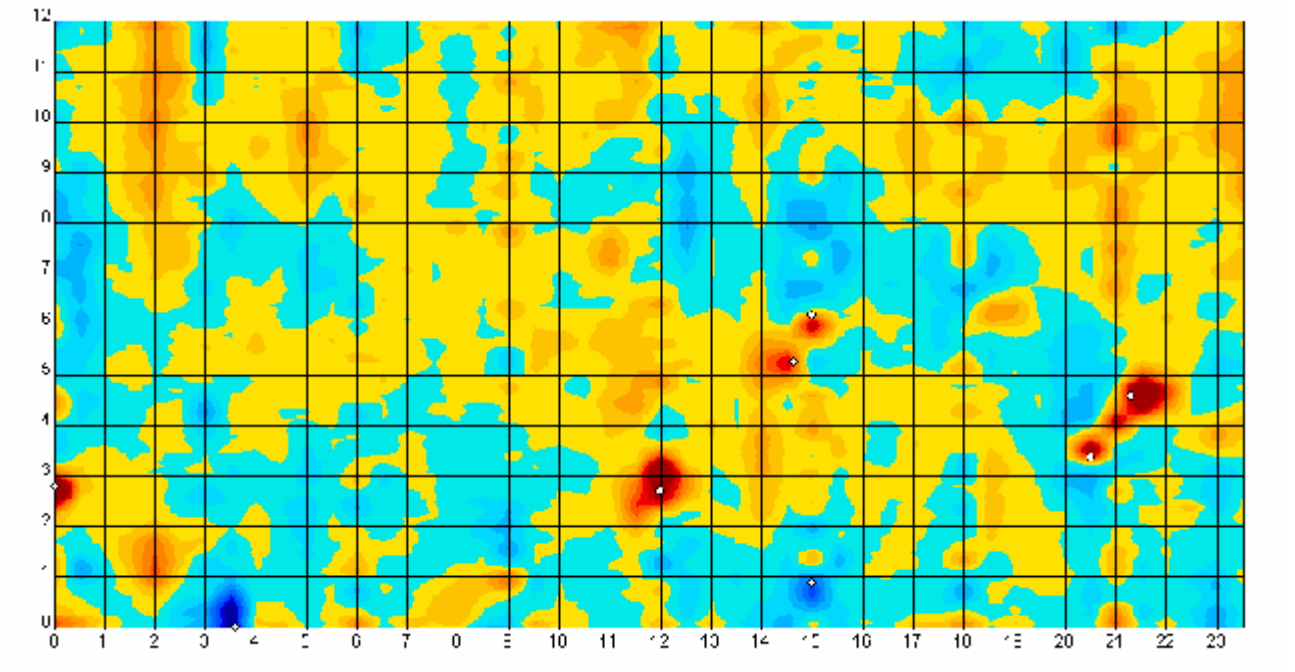
Nbr.	X m	Y m	Depth m	Diam. m	Volume Litre	Remarks
1	1,55	0,49	1,20	0,27	10,5	**Projectile 76mm**
2	47,63	6,49	0,69	0,11	0,6	Scrap

Area 6 Box 2



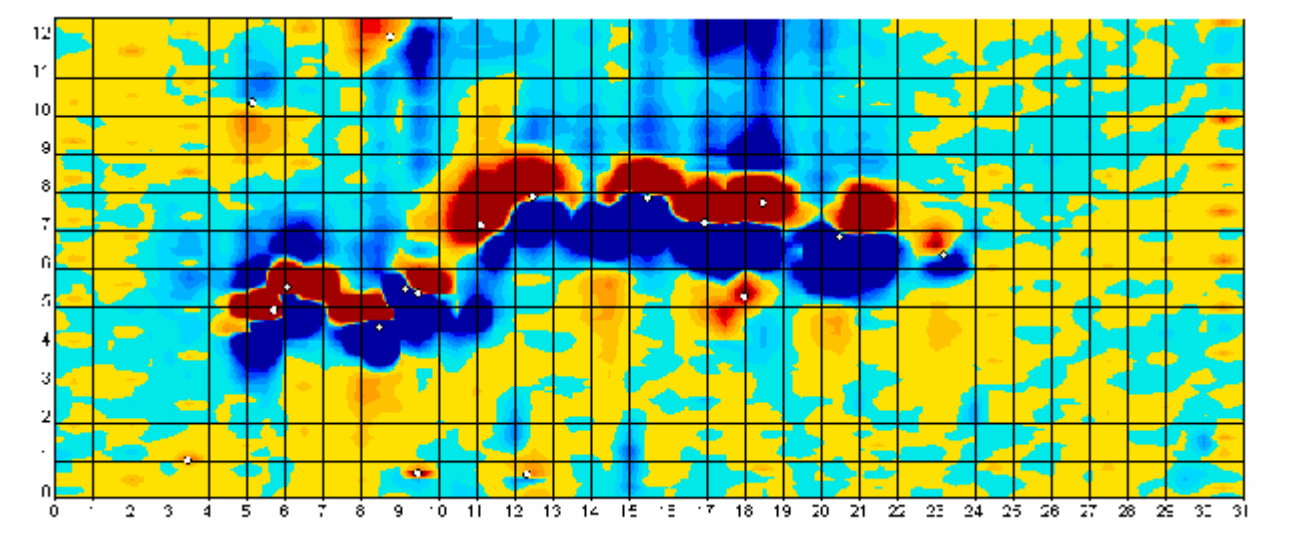
Nbr.	X m	Y m	Depth m	Diam. m	Volume Litre	Remarks
1	6,52	0,06	1,24	0,59	109,3	Scrap
2	8,00	0,56	0,57	0,23	6,4	Rail
3	20,73	1,36	0,69	0,19	3,4	Rail
4	22,96	1,33	0,80	0,27	10,6	Rail
5	25,38	0,02	0,63	0,52	75,7	Rail
6	24,17	3,16	0,74	0,23	6,7	Rail
7	29,00	2,78	1,17	0,33	19,3	Sleeper
8	25,21	3,49	1,26	0,53	76,9	Rail

Area 6 Box 3



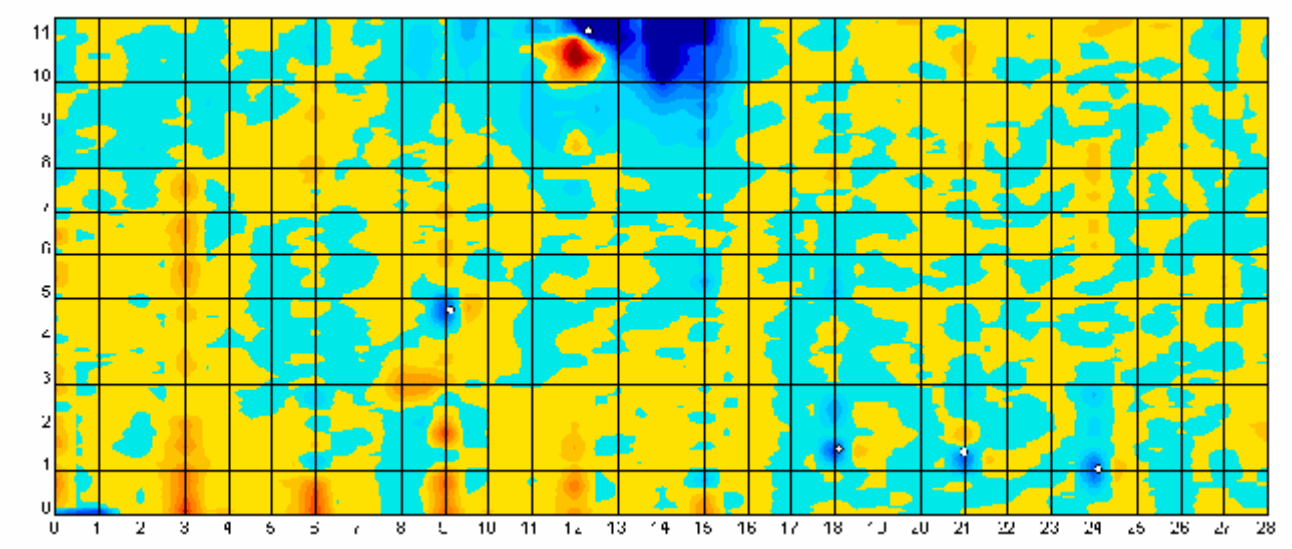
Nbr.	X m	Y m	Depth m	Diam. m	Volume Litre	Remarks
1	0,00	2,80	0,52	0,09	0,4	**Projectile 37mm TPT**
2	3,59	0,00	0,59	0,09	0,4	Post LIS
3	11,99	2,72	1,14	0,24	7,1	**Projectile 76mm**
4	14,98	6,20	0,51	0,07	0,2	Steel scrap
5	14,63	5,27	0,36	0,04	0,0	Too small
6	14,98	0,88	0,47	0,06	0,1	Too small
7	20,50	3,37	0,45	0,07	0,1	Too small
8	21,31	4,61	0,78	0,15	1,7	**Projectile 76mm**

Area 6 Box 4



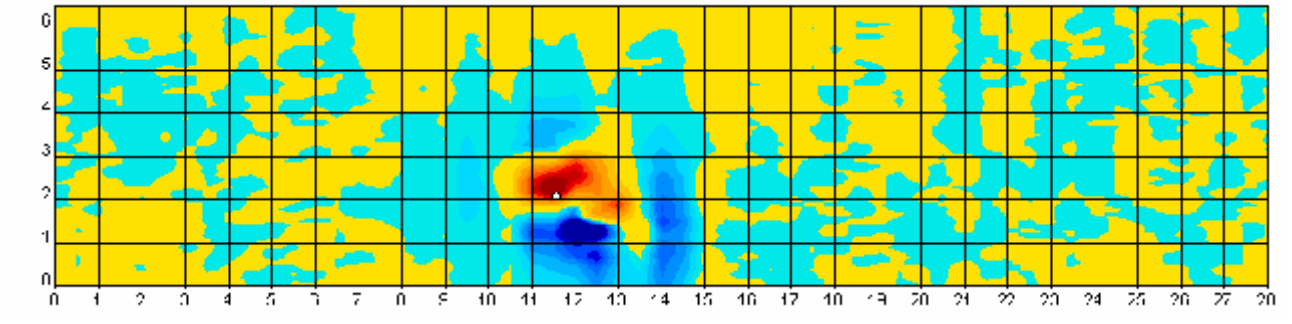
Nbr.	X m	Y m	Depth m	Diam. m	Volume Litre	Remarks
1	5,75	4,89	0,71	0,47	55,6	Rail
2	6,10	5,52	0,68	0,45	47,4	Rail
3	8,50	4,47	0,38	0,26	9,2	Sleeper
4	9,17	5,47	0,54	0,29	12,2	Rail
5	5,19	10,30	0,86	0,23	6,2	Nothing found
6	3,49	0,98	0,28	0,05	0,1	Too sml
7	9,50	0,68	0,12	0,02	0,0	Too sml
8	9,50	5,34	0,67	0,32	17,8	Rail
9	11,13	7,10	0,65	0,29	13,1	Rail
10	12,50	7,87	0,53	0,24	7,4	Rail
11	15,50	7,82	0,77	0,52	72,5	Rail
12	16,99	7,18	0,77	0,64	134,1	Rail
13	18,50	7,70	1,07	0,76	231,7	Rail
14	18,04	5,27	0,73	0,21	5,1	**Projectile 37mm TPT**
15	12,33	0,62	0,38	0,07	0,2	Scrap
16	20,49	6,84	0,97	0,65	145,4	Rail
17	23,23	6,35	0,53	0,16	2,2	Rail
18	8,77	12,01	1,25	0,45	48,6	Sml & deep

Area 6 Box 5



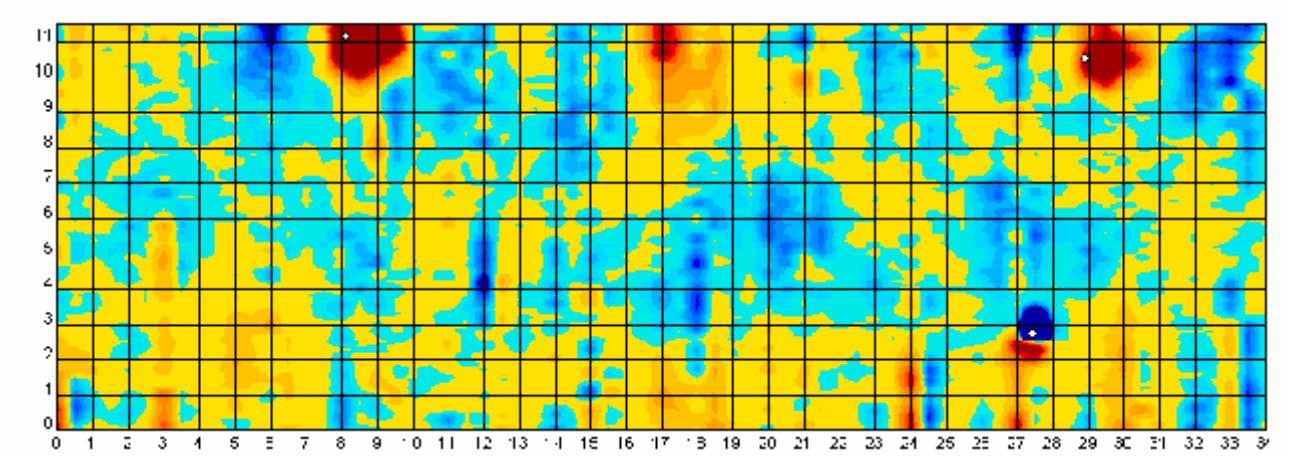
Nbr.	X m	Y m	Depth m	Diam. m	Volume Litre	Remarks
1	9,15	4,73	0,38	0,05	0,1	Too small
2	12,34	11,20	0,81	0,23	6,4	Rebar
3	18,13	1,50	0,36	0,05	0,1	Too small
4	21,00	1,44	0,37	0,05	0,1	Too small
5	24,13	1,07	0,36	0,05	0,1	Too small

Area 6 Box 6



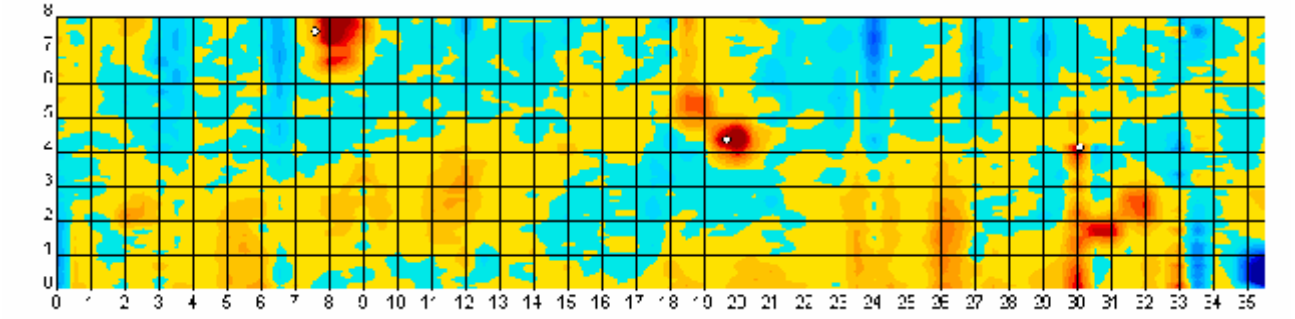
Nbr.	X m	Y m	Depth m	Diam. m	Volume Litre	Remarks
1	11,61	2,09	0,70	0,41	35,7	Steel framework

Area 6 Box 7



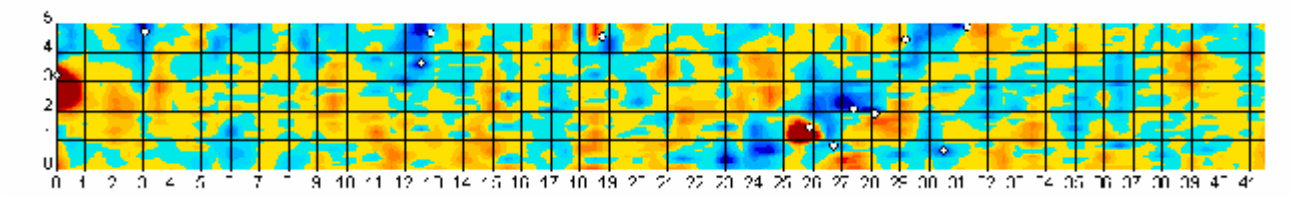
Nbr.	X m	Y m	Depth m	Diam. m	Volume Litre	Remarks
1	27,48	2,73	0,43	0,11	0,7	Angle iron scrap
2	8,16	11,10	1,56	0,54	81,0	Wire
3	28,93	10,50	1,92	0,58	103,7	Angle iron scrap

Area 6 Box 8



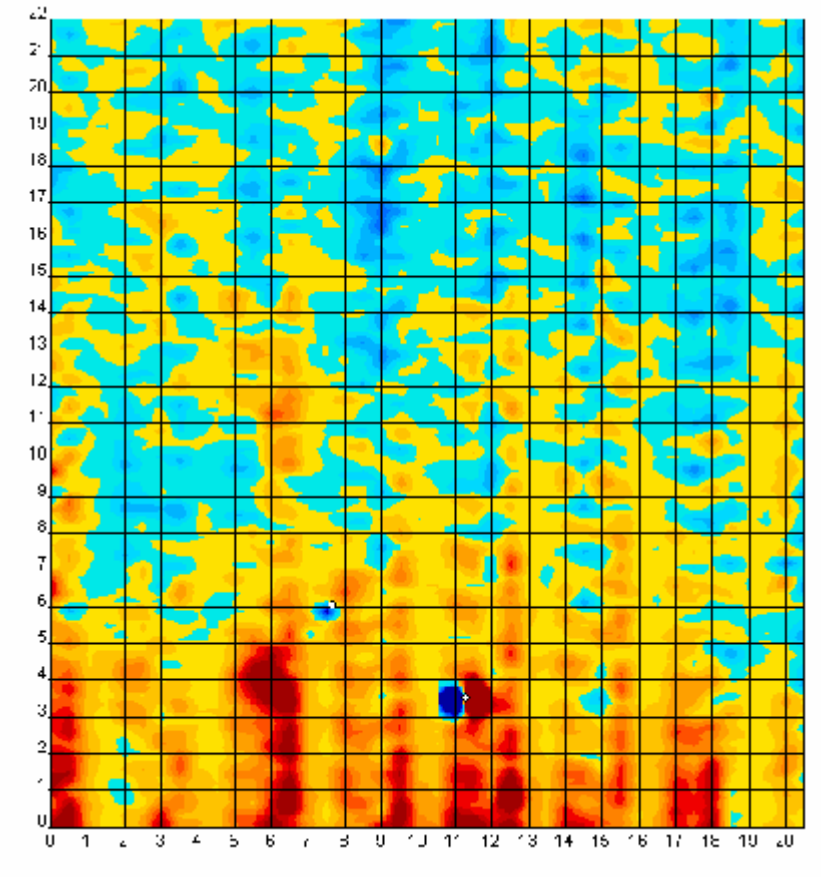
Nbr.	X m	Y m	Depth m	Diam. m	Volume Litre	Remarks
1	7,61	7,59	1,31	0,34	20,0	Steel plate
2	19,72	4,36	1,32	0,33	18,6	Steel plate
3	30,13	4,17	0,37	0,06	0,1	Too small

Area 6 Box 9



Nbr.	X m	Y m	Depth m	Diam. m	Volume Litre	Remarks
1	0,00	3,22	0,65	0,13	1,1	Reinforced concrete
2	3,09	4,72	0,87	0,15	1,7	Too small
3	12,88	4,68	1,13	0,21	4,8	Too deep to be of concern
4	12,59	3,65	0,78	0,11	0,8	Too small
5	18,75	4,57	0,50	0,07	0,2	Too small
6	25,89	1,46	1,36	0,41	35,4	**Projectile 76mm**
7	26,74	0,81	0,80	0,13	1,1	Interference from the projectile above
8	30,53	0,66	0,54	0,06	0,1	Too small
9	29,23	4,46	0,42	0,05	0,1	Too small
10	31,31	4,89	0,77	0,13	1,2	Scrap
11	28,13	1,91	0,51	0,08	0,3	Scrap
12	27,41	2,09	1,15	0,23	6,4	Scrap

Area 6 Box 10

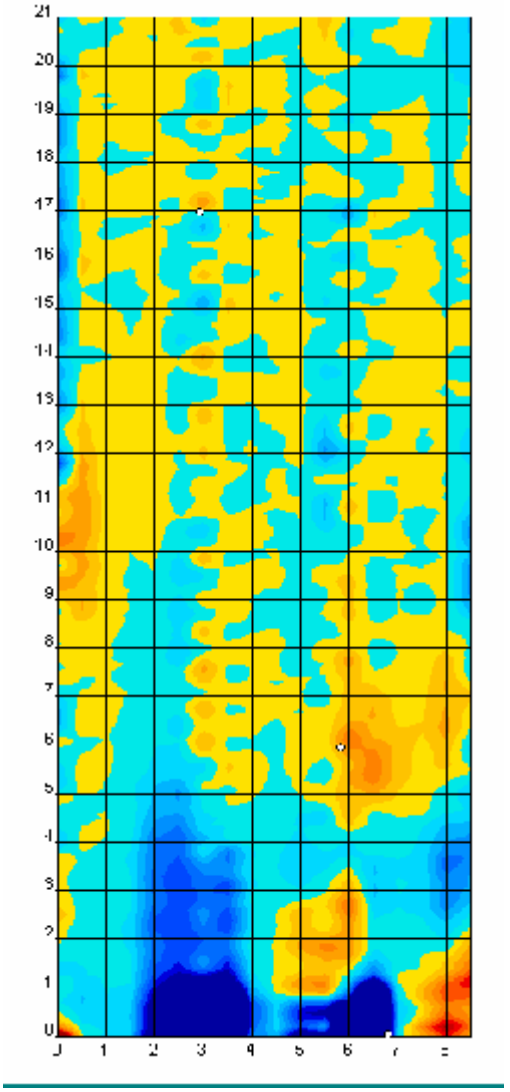


Nbr.	X m	Y m	Depth m	Diam. m	Volume Litre	Remarks
1	11,30	3,50	0,38	0,14	1,4	Flange
2	7,70	6,07	0,54	0,09	0,4	Steel bolt

Area 7

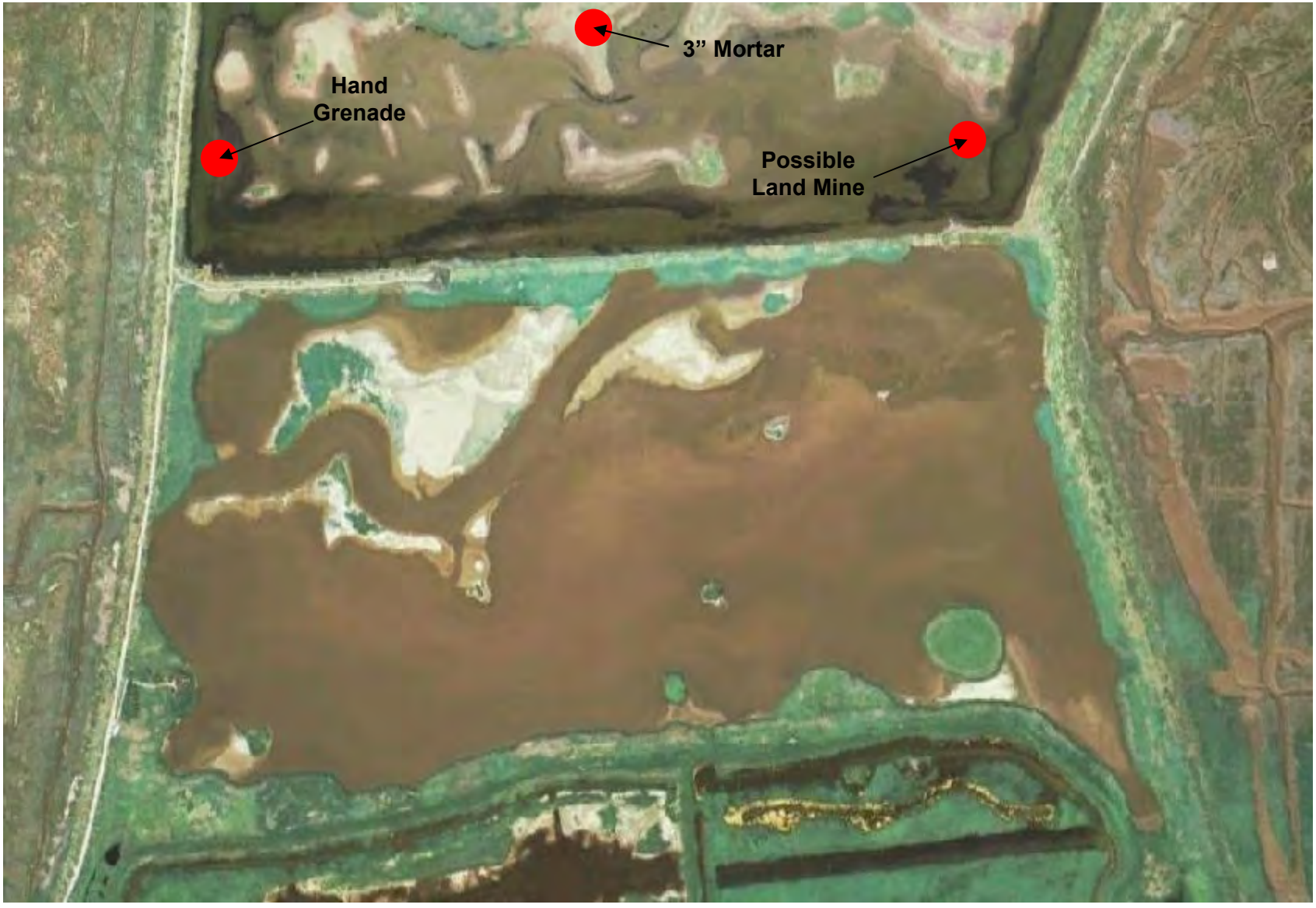
Area 7 consisted of a single box

Area 7 Box 1



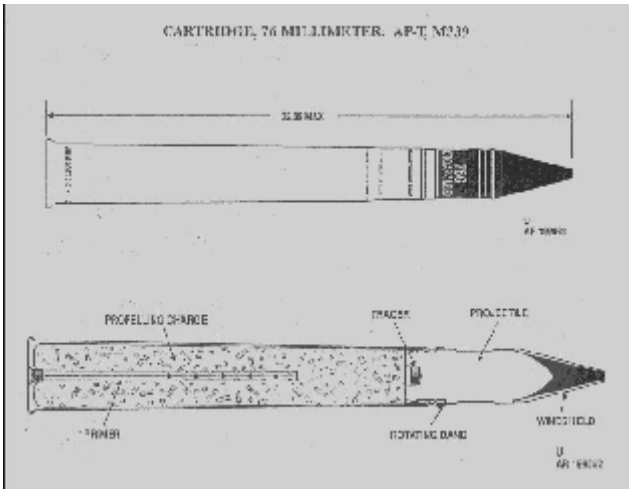
Nbr.	X m	Y m	Depth m	Diam. m	Volume Litre	Remarks
1	**6,81**	**0,04**	**1,03**	**0,40**	**33,7**	**RC Wall**
2	**2,97**	**16,99**	**0,40**	**0,06**	**0,1**	**Nail**
3	**5,87**	**5,96**	**0,54**	**0,09**	**0,3**	**Small Bar**

LOCATIONS OF LIVE/SUSPECT LIVE EO



IMAGES OF EO RECOVERED

Cache from Areas 1 to 7




3" Mortar Front View


3" Mortar Side View


Hand Grenade


Possible Land Mine


Heavily Encrusted Projectile


Heavily Encrusted Projectile exposed


57mm Projectile


Partially Buried Projectile

Rendered safe by explosive demolition in situ (by 5131 (BD) Squadron)

ORDNANCE HAND OVER CERTIFICATE

This is to certify that the following items of ordnance have been handed over by MACC International Limited. To (UNIT)..... 5731 (BA) SQN ....., for disposal.

ITEM	QTY	REMARKS
3" MORTAR	1	UNFUSED
UNKNOWN ITEMS	2	POSS HAND GRENADE POSS ANTI TANK MINE
ENCRUSTED UNKNOWNS	13	POSS 76mm S/SHOT
MIXED PROJECTILES	50	

Received By:

Name	Rank	Number
WILLIAMS	SGT	E8248559

Date	Signature	
10/Aug/10		POLICE REF No 152/108/10

ORDNANCE HAND OVER CERTIFICATE

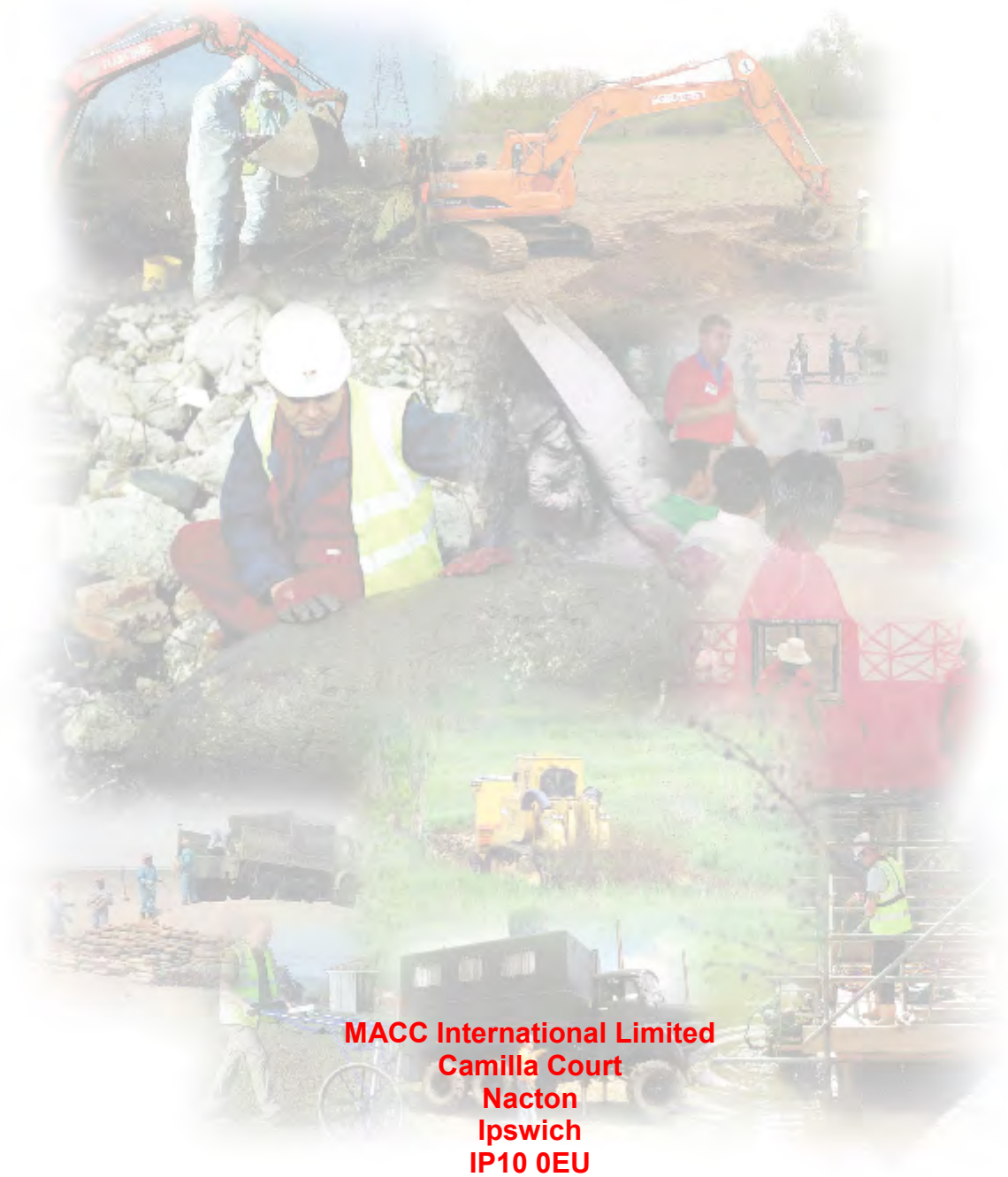
This is to certify that the following items of ordnance have been handed over by MACC International Limited. To (UNIT).....51 I.B.D. SQN....., for disposal.

ITEM	QTY	REMARKS
ENCRUSTED UNKNOWNS	6	Boss 76mm Projectiles
Projectiles various	5	Boss 37mm / 57mm / 76m

Received By:

Name	Rank	Number
WILLIAMS	SGT	E8248559

Date	Signature	
11/8/10		POLICE REF No 163/11810



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