Synopsis: P-H-Röhl NRW GmbH

Explosive Ordnance Disposal

Gentlemen:

We are a company that comes into occasional contact with the detection and disposal of explosive ordnance in connection with construction projects. We take this occasion to provide you with a brief presentation of our company and its activities in the field of the disposal of explosive ordnance.

Company goals

Based on the historic Name of Röhl Environmental Services (Berlin/Warburg, est. 1946) the two experienced entrepreneurs Juergen Plum and Hans-Michael Hobrack founded a company on April 01 / 2004, pursuing new concepts with the focus on the field of explosive ordnance disposal.

Our aim is the innovative development of efficient methods and documentation for the salvaging of dangerous ordnance. Our philosophy is the achievement and constant improvement in questions of safety as the best basis for mutual trust between the client and all project staff involved.

Expertise

Altogether, both managers possess with their 56 years of combined experience in the detection, salvage and the disposal of highly sensitive and dangerous objects great expertise in this field. This is a factor that is reflected in the structure of the staff.

"Achieving sustainable solutions for our clients“ is a stimulus to Jürgen Plum. Safety is the most important aspect for either side, because “detecting hazardous material deposited in the ground professionally requires more than just knowledge of the technology involved”, says Hans-Michael Hobrack.

Service partners

The consistent deployment of their expertise qualify P-H-Röhl NRW as a modern service-provider for both public and private clients. For each project the company’s management develops methodical guidelines accompanying the integration of the explosive ordnance disposal.

The company’s experts advise contractors and clients on the aspects and typical requirements for a particular terrain prior to the project stage for a disposal contract. Factors such as the type of the combat area, bomb throwing patterns, the structure of the terrain, soil conditions, climatic circumstances, etc. are monitored and integrated into the calculations carried out for the client.

Precision & Technology

The certified physicist Thomas Heinrich is the responsible head of the electronics department of the company and is in charge of the continuous maintenance and calibration of the highly sensitive measuring instruments. His professional activities include his own workshop and the company-owned test field for test and research work.

The entire technical equipment of the former Röhl Disposal Services have been taken over in 2004 and new investment has been effected into a complete D-GPS surveying system of the latest design. The modernization of the data pick-up and the computer-aided sensor devices now fulfill the standards. In addition to various detection devices.
Quality Assurance

Quality is the core aspect of safety and of reliability. The company is a voluntary member of the “Güteschutzgemeinschaft Kampfmittelräumung Deutschland e. V. GKD.” [a body monitoring the quality of work], and is committed to maintain the quality standards for the disposal of explosive ordnance and at the same time it is subjected to permanent monitoring and stringent quality controls. This is in addition to the regulations and checks conducted by the “Berufsgenossenschaft Chemie und der Ämter für Arbeitsschutz” [a body monitoring safety].

Quality management puts the expertise of a company to the test. Therefore the company has decided to initiate the dynamic process of certification according to DIN EN ISO-9001:2008. This adds further impetus to the improvement of the efficiency of the safety concept for every client and the staff teams involved.

Reliability

P-H-Röhll NRW GmbH is a service-oriented partner for all questions relating to the disposal of explosive ordnance. From the detection right to the disposal of soils contaminated with the inherited burdens from hostile activities and actions by the military, our experts are active nation-wide to ensure the risk-free post-mining land use and to allow the productive use of cleared sites.

The continuous framework agreements in North-Rhine Westphalia with the Düsseldorf (Cologne) and Arnsberg district administrations form the basis and are a proof for a reliable and successful cooperation in the region.

Staff & Quality

Cooperation is a core value in our enterprise which today comprises a workforce of 76. They are experts in their field and all, without exception, have long-standing experience in the disposal of explosive ordnance. They received their training mainly with the German Armed Forces and possess expert knowledge on current-type NATO ammunition. With an average of 15 years of practical experience per member and with constant on-the-job training this forms a pool of expertise that provides a lasting support for the company.

Active team spirit is promoted and it is a constructive element of the Röhll training concept. This is a sensitive process asking for active sharing of personal experience and formal knowledge with all team members. The extensive take-over from the historic Röhll company supports this growing pool of knowledge within the enterprise.
Core activities

P-H-Röhll NRW GmbH has established itself in explosive ordnance disposal with the following activities:

a. Surface detection on land and on water (site clearing).
b. Depth range detection / bore hole detection
c. Bomb disposal
d. Salvaging
e. Detonating of ammunition found
f. Computer-aided recording of probe readings
g. D-GPS & optical surveying
h. Company based electronic service / stationary and mobile workshop

a.) Surveys of sites surfaces are documented as part of the project planning stage on the basis of precise cartography and following tested measuring routines. Using various special probes of well-known German special manufacturers (Vallon / Foerster / Ebinger) we are prepared for any type of situation we are confronted with in the terrain and soils. All phases, from the detection to the excavation and up to the recovery, are executed and documented in detail in accordance with the specifications of the KBD.

With large-scale detection campaigns in the Huertgenwald [historic combat zone] (former district of Aix-la-Chapelle) P-H-Röhll NRW has gained extensive practical experience. A great part of the staff has more than 30 years of active experience in terrain securing.

b.) A number of drill gangs, equipped with drill gear for depth-range detection is available. Experienced groups and staff from Europe’s oldest privately-owned company for the disposal of explosive ordnance – the reliable “Röhll bomb clearing gang”. Famous for their practical experience and their sensitivity in drill-hole detection, they deploy a variety of systems and special drilling equipment owned by the company. A range of mobile systems allows the fast deployment on site with high drilling rates.

The aim of this process – from the measurements taken of the drill hole to the evaluation of the computer generated diagrams to the detection and exposure of the bomb – is the professional recovery of the bomb. All this is carried out and controlled by experienced group leaders.

c.) The company’s scope of services includes the project-related disposal of bombs and mines. For the recovery of explosive ordnance in any variety of soils the company deploys aluminum-framed tunneling frames allowing safe digging operations up to the site of discovery. Company salvage groups then identify the type of bomb and make preparations for the defusing and the salvaging.
d.) Salvaging from the water is gaining ever more importance for the salvaging side of the company. The peculiar conditions there require creativity for the use of gradiometric processes and promote the in-house development and the use of specialized detection automatcs such as the ones used on the Rhine, for example (Andernach clearing site), where they are used for **underwater detection**. A self-designed dig-out separator was used on the Datteln-Hamm-Canal (Luenen site) which made it possible to detect 400 square meters/day of canal soil and clear it from foreign bodies and metal and war ammunition. A cooperative partnership exists with the Huelskens Hydraulic Engineering company of Wesel (Germany) allowing the deployment of heavy equipment and cranes for the salvaging of heavy metal objects and other obstacles posing a danger to navigation.

e.) The identification of the type of a bomb and the assessment as to the transportability are part of the preparations for a project. The particular experience of the gang’s foreman decides on what is the safest practical solution. Services include the detonation of ammunition found and the proper intermediate storage and securing of the hazardous object.

f.) P-H-Röhll NRW supports innovative solutions for the effective disposal of explosive ordnance. The computer-aided recording of probe readings is one of many factors that provide optimum on-site support for the qualified work-gangs and to provide efficient solutions for the client. Using the most modern equipment and the “EVA2000” software by Vallon (Eningen) the interplay between experience and technology reaches new dimensions.

g.) The experience of the measuring staff and the correct handling of the D-GPS measurements make the search easier and more accurate around the suspected site-points.

This satellite-based system compares the terrain’s coordinates with an accuracy of a few decimetres [1 decimeter is approx. 4 inches] with aerial photographs on hand and this leads to a faster and successful detection. Apart from improved search results the system also improves the efficiency for large area detection.
h.) The in-house electronic service and the company's mobile workshop make P-H-Röhll NRW a reliable partner for complex project work. Permanent controls, maintenance and calibration of our measuring instruments by our physicist Thomas Heinrich secures the highly sensitive metrology in the workshop area and on the company-owned trial field.

**Training program**

Internal training is conducted in our own seminar facilities. Specialized knowledge regarding the topics of detection, calibration and salvaging is passed on to all staff members in permanent basic and further training courses. The chief training coach and the physicist Thomas Ebbinghaus are the guarantors for thorough expert knowledge.

The main aims are the development of complex project processes and the adaption of the detectors and the working tools to the state-of-the-art level. By passing on expert knowledge and the exchange of experience gained the already high standards of quality achieved by P-H-Röhll NRW GmbH are further improved and the effectiveness of the disposals and the on-site safety are further enhanced.

**Safety comes first**

The disposal of explosive ordnance is carried out in areas such as bomb-throwing theaters, combat zones, detonation sites, military training grounds, where public building activities are being planned or where public use of certain sections as recreation area is anticipated. These measures lay the foundation stone for a reliable increase in value of these areas, which have been cleared and can be safely handed over for example after the removal of inherited burdens and freedom from hazardous substances.

The user will be provided with the highest degree of safety – with work the success of which can only be assessed by the quality of the entire project. This is why P-H-Röhll NRW GmbH is relying on the interplay between experience and constant training on a level that conforms to the latest standards, in order to protect all participants of a project. An assessment of the disposal of explosive ordnance on economic criteria alone is only conditionally possible, an assessment on the basis of piecework is impossible by its very nature and even life-threatening in the last resort.

Safety, defined as a quality criterion is the recipe for success of the Duren-based P-H-Röhll NRW company. With a clear documentation and a monthly assessment the client attains a calculable service combined with a minimal risk for the reliable disposal of explosive ordnance.

We hope to have given you a comprehensive representation of our company and are looking forward to cooperating with you in future. In case of receiving an order we would like to assure you that you will receive our continuous and committed professionally executed services.

With kind regards

P-H-Röhll NRW GmbH

... the explosive ordnance remover

Jürgen Plum

Michael Hobrack

(Managing directors)
Building on experience, this is our motto.

P-H-Röhl NRW delivers expert knowledge, experienced gangs and equipment to the disposal site. This way all disposal projects become the key to a reliable and permanent site rehabilitation. This is the result of the perfect detection of explosive ordnance and optimum clearance.

Don’t give risk a chance and trust the quality of Röhl bomb clearing gangs.

Together with us you achieve your goal: A safe terrain as a result of precision and consistent realization. Our experienced squad of pyro-technists is on standby. They received their training mainly with the German Armed Forces and possess expert knowledge on current-type NATO ammunition.

P-H-Röhl NRW, for safe success.