
















Standard Operating Procedure SOP-046	Revision 0
BOREHOLE DRILLING	

1. Activity	Borehole drilling		
2. Associated Risk and Environmental Impact Assessment		RA-046 Borehole drilling	
3. Control measures			
1) Ensure you have <u>ALL PPE in proper working condition</u>		4) Establishment of equipment/personnel decontamination areas and work zones	
2) Temporary flagging and fencing to secure the site and equipment/materials storage area, site access/egress points, signs and barricades for onsite traffic control and warning tape for prohibited areas (i.e., the contaminated soil, excavation, treatment and stockpile areas)		5) A supervisor is appointed to take responsibility for the whole operation, inform involved personnel and control SIMOPS (Simultaneous operations).	
3) Employees exposed to vehicular traffic shall be provided with and shall wear warning vests or other suitable garments marked with or made of reflective and high visibility material		6) All emergency response equipment to be on site	




4. PPE							
							
✓			✓		✓	✓	
Helmet, EN 397, EN50365	[specify type]	[specify type]	Particles face shield, EN 169, 175, 379	[specify type]	Selection of filters for organic vapors	Selection of filters for organic vapors	[specify type]
							other
✓	✓	✓	✓	✓		✓	
Ear plugs EN 352	Long sleeves coverall EN 340	High Visibility vest EN 471	Impact resistant glove, EN 420	Safety boots, EN ISO 20345 S5, S3	[specify type]	Fall Protection Safety harness EN 341, 348	[specify type]


5. Forms & Attachments
None

6. Pre-job checks	
1) Verify flagging, isolation/fencing (traffic cones and barrier tape to delineate work area), site access	4) Underground utilities' / public lines' (sewer, telephone, electrical, fuel, natural gas, water and

control measures. 2) Vehicle / equipment have appropriate licenses and operable back-up warning systems 3) Check the drilling plan and toolbox-talk it with relevant personnel.	other lines, and underground tanks) designs are available and respective parties have been informed accordingly. 5) Check installation of Emergency arrangements.
---	---

7. Execution

1) Flag, isolate/fence the work area and place site access control measures	
2) Identify, flag and protect/support or remove/bypass all existing underground utilities / public lines accordingly	
3) Drilling Operatives are experienced personnel	
4) Ensure standing area is free from slip, trip or fall hazards.	
5) Erect rig in accordance with BDA guidance	
6) Ensure the drill rig is well secured and stable.	
7) No employee shall be permitted underneath loads handled by lifting or digging equipment. Employees shall be required to stand away from any vehicle being loaded or unloaded.	

8) Upon extraction of the samples out of the boreholes, place samples into the wooden core boxes	
9) Perform site restoration following confirmation sampling in accordance with work plan	

8. After work checks

- 1)** Make sure all boreholes are backfilled.
- 2)** Confirm the working state of underground lines that were interrupted before works.
- 3)** Retrieve tools.

Issued	Checked	Approved
<i>Bojana Ivanic</i> <i>Project Manager</i> <i>Signature</i> <i>Date 25/02/2017</i>	<i>Panagiotis Manolopoulos</i> <i>Waste operation manager</i> <i>Signature</i> <i>Date 25/02/2017</i>	<i>Athanasios Polychronopoulos</i> <i>Executive Chairman</i> <i>Signature</i> <i>Date 25/02/2017</i>