



# SOIL BORING LOG

PROJECT NUMBER: 436390

BORING NUMBER: P58

SHEET 1 OF 2

PROJECT : Parc à Fûts

LOCATION : Cernay, France (963901.60 N, 322045.42 E)

ELEVATION : 281.10 m

DRILLING CONTRACTOR : Boart Longyear

DRILLING METHOD AND EQUIPMENT : Sonic rig DB320, Sonic Drilling /Coring 90mm

WATER LEVELS : 7.01 m below ground surface

START : 03/07/2012

END : 03/07/2012

LOGGER : S. Julia (ASTM)

DEPTH BELOW EXISTING GRADE (m)	INTERVAL (m)		RECOVERY (%)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY	SYMBOLIC LOG	PID-10.6 (ppm)	PID-11.7 (ppm)	COMMENTS	WELL DIAGRAM
	START	END							
281.1				Pre-drilling by vacuum excavation					200mm diameter OTT cover Cement grout
1	280.1								
2	279.1		100%	<b>1.5-3.6m: SAND (SW-SM)</b> Dark yellowish brown (10YR 4/4) - well-graded sand (mostly) with gravel (some) and silt (trace). Sand is fine to coarse. Gravel is fine (mostly; up to 2cm) to coarse, subangular, assorted. Moist.		2.2			
3	278.1			> 2.7-3.6m: Transition to well-graded gravel (mostly; 59%) with sand (some; 29%), silt (trace; 2%) and cobble (few; 10%). Sand is medium to coarse. Gravel is coarse (2-4cm), subangular to angular, assorted. Dry.		6.3			
		3.60				5.7			
4	277.1		100%	<b>3.6-6.9m: SAND (SW-SM)</b> Reddish brown (2.5YR 4/4) - well-graded sand (mostly; 59%) with gravel (some; 33%) and silt (few; 8%). Sand is mostly medium. Gravel is mostly fine, subangular, assorted. Moist.  > 3.6-4.1m: presence of cobbles (>10cm). Dry.		10			
5	276.1			> 4.6-5.1m: layer of well-graded gravel (mostly; 70%) with sand (few to little; 20%) and silt (few; 10%). Sand is medium to coarse. Gravel is coarse (3-5cm; up to 7cm), subangular, assorted. Moist.		6			
		5.50		> 5.5-5.6m: wet.		9.1			
6	275.1		100%	> 6.0-6.9m: transition to well-graded sand (some) and gravel (some) with silt (few). Sand is medium to coarse. Gravel is fine to coarse, angular, assorted. Moist.		6.1		Sample 20120706 CER S P58 5.1-5.5 for granulometry analysis. Fines: 8%, sand: 59% (F/M/C: 7%/39%/13%) and gravel: 33% (F/C: 22%/11%).	
		6.90		> 6.5-6.6m: presence of cobble.		9.8			
7	274.1			> 6.8-6.9m: presence of cobble.		1.3			
				<b>6.9-9.6m: GRAVEL (GW-GM)</b> Yellowish brown (10YR 5/6) - well-graded sand (mostly; 50%) with gravel (some; 35%), silt (little; 15%) and cobble (trace; <1%). Sand is fine to medium. Gravel is fine to coarse (up to 5cm). Wet (saturated).		1.9			
8			100%			1.6		Water entry: 6.9mbgs. Water level: 7.01 mbgs (06/07/12)	Bentonite (chips)
						4.3			



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LOGGER : S. Julia (ASTM)

DEPTH BELOW EXISTING GRADE (m)	INTERVAL (m)	RECOVERY (%)	SOIL DESCRIPTION	SYMBOLIC LOG	PID-10.6 (ppm)	PID-11.7 (ppm)	COMMENTS	WELL DIAGRAM
273.1			> 7.9-9.2m: transition to well-graded gravel (mostly; 51%) with sand (some; 39%) and silt (few; 10%). Sand is mostly medium. Gravel is fine to coarse. Wet (saturated).	●●●●●	2.8		<p>Sample 20120706 CER S P58 7.9-8.6 for granulometry analysis. Fines: 10%, sand: 39% (F/M/C: 8%/22%/10%) and gravel: 51% (F/C: 25%/26%).</p> <p>← Filter Pack (washed silica sand) ← 0.5mm slot 50mm PVC Screen</p>	
9	8.90			●●●●●	3.5			
272.1				●●●●●	5.7			
				●●●●●	7.1			
10		100%	<b>9.6-10.1m: SAND &amp; GRAVEL (GW/SW-GM/SM)</b> Reddish brown (2.5YR 4/4) -well-graded sand (some) and gravel (some) with silt (little to some) and cobble (trace). Sand is medium to coarse. Gravel is mostly coarse, subangular, assorted. Wet (saturated).	●●●●●	3.5			
271.1			<b>10.1-11.9m: SAND &amp; GRAVEL (GW/SW-GM/SM)</b> Greyish brown (10YR 5/2) - well-graded sand (some) and gravel (some) with silt (little to some; 27%) and cobble (trace; up to 8cm). Sand is fine to coarse. Gravel is fine to coarse (up to 5cm), subrounded to subangular, assorted. Moist.	●●●●●	0.3			
11	10.90		> 10.5-10.9m: dry.	●●●●●	2.4			
270.1			> 10.9-11.9m: no cobble.	●●●●●	3.5			
12		100%	<b>11.9-13.5m: SILT (ML)</b> Yellowish brown (10YR 5/6) - sandy (little) / gravelly (little) silt (mostly). Stratified with red/green/purple/brown coloration caused by oxidation-reduction and black mottling. Hard. Moist.	●●●●●	5.3			
269.1				●●●●●	6.2			
13				●●●●●	3.3			
268.1	13.50		Bottom of Boring at 13.50 m below ground surface	●●●●●			← Filter pack	