

APPENDIX 2. RAW MATERIAL TYPES AT EACH STUDY SITE

Appendix 2 contains descriptions of the raw material type identified at each study site, along with probable or possible source identifications, based on comparison of macroscopic characteristics with the lithic database described in Appendix 1.

Maisières-Canal: Raw material types

Ungrouped:

- 1 Obourg flint: fine to very fine-grained, black, glossy, rarely matte, translucent even when fairly thick, very few inclusions and if present, are tiny specks and spts, white chalk cortex; from Craie d'Obourg
- 2 Spiennes flint: fine-grained but coarser than Obourg, gray to dark gray, mostly matte but can have a slight gloss, slightly translucent, many inclusions, mainly large ovoid or irregular spots of medium-grained coarseness as well as round gray spots and specks, can patinate white with rust-colored lines but doesn't appear to have patinated much at Maisières-Canal, tougher/less brittle than Obourg
- 3 olive-green flint: fine-grained, similar to Obourg, glossy, few inclusions: bubble-like spots and some larger, coarser spots, less translucent than Obourg or Spiennes: doesn't show inclusions when translucent like Spiennes can
- 4 gray flint 1: very light gray without inclusions, translucent, brittle
- 5 brown flint: fine-grained, very translucent, brown with white flecks on surface, dark flecks within (like formica), glossy
- 6 gray flint 2: probably a variant of Obourg, but less translucent, more matte, homogeneous gray rather than brown or black, few inclusions but small gray spots
- 7 medium-grain gray flint: medium-grained, gray, opaque, matte, slightly rough fracture surface
- 8 brown-yellow flint: fine-grained, glossy, few inclusions, very different shade of brown from translucent Obourg, brighter and more yellow
- 9 phtanite: fine-grained, opaque, matte, black to dark gray
- 10 chert: medium-coarse-grained, irregular fracture surface

Grouped	Name	Ungrouped
1	Obourg	1
2	Spiennes	2
4	phtanite	9
8	gray flint	4, 6, 7
9	brown flint	5, 8
10	chert	10
17	olive-green flint	3

Huccorgne: Raw material types

Ungrouped material types (Straus):

MATERIAL Lithic Raw Material

Value	Label
10	fine-grain flint Obourg/Hesbaye
11	fine-grain flint N. Belgium
12	medium-grain flint
13	fine-grain flint cretaceous
15	black flint
20	chert
30	phtanite
40	medium-grain limestone
41	fine-grain limestone
42	crystalized limestone
50	medium-grain quartzite
51	fine-grain quartzite/siltstone
52	quartz crystal
53	sandstone
54	Brussels sandstone
55	psammite
90	ochre/hematite
99	other stone

Grouped types	Name	Ungrouped types
3	Hesbaye flint	10-13
4	phtanite	30
7	black flint	15
10	chert	20
11	quartzite	50-51
12	sandstone	53, 54
13	limestone	40-42
14	quartz	52

Grottes de Goyet: Raw material types

- 1 Obourg flint
- 2 Hesbaye flint: blue-gray flint, patinates blue-gray-white, white on ridges and edges.
 - 2a fine-grained, glossy
 - 2b coarser (but still fine-grained), matte
- 3 tan flint: lots of small (1-2 mm) beige and white speckles
- 4 black flint: not Obourg, white speckles, patinates gray-white, probably Maastrichtian
- 5 phtanite: good quality (from Ottignies source)
- 6 dark gray flint, not Spiennes or Obourg, glossy, few or no inclusions, homogeneous
- 7 cherts of unknown sources: medium to coarse-grained
- 8 black flint: like Obourg, but opaque (ex 2751.60), has brownish-orange irregular spots to 20 mm, but rare.
- 9 translucent, light brown-yellow flint, fine-grained, matte.
- 10 brown opaque flint
- 11 Spiennes flint
- 12 brown flint (lots of tiny inclusions within a translucent matrix)
- 13 medium-grained quartzite, tan, gray, or white
- 14 Wommersom quartzite
- 15 blue-gray flint (ex. 190), blue-gray under a filmy gray patina, grey and beige spots common, lots of tiny gray or blue specks. Cortex is rolled chalk. Possibly Hesbaye.
- 16 tan-gray flint, opaque, homogeneous in color and texture, veined, few inclusions, consistent grainy/speckled coloring but fine-grained.
- 17 gray flint, opaque, few inclusions (ovoid spots), rest of material is fine-grained, homogeneous in color and texture.
- 18 gray flint, medium to fine-grained, rough surface, opaque.
- 19 sandstone, black and tan (mostly tan) grains in white matrix
- 20 grès lustre: lustrous sandstone

Grouped	Name	Ungrouped
1	Obourg	1
2	Spiennes	11
3	Hesbaye	2, 15
4	phtanite	5
5	Wommersom	14
6	unknown tan/ brown flints	3, 9, 10, 16
7	unknown black flints, prob. Tertiary	4, 8
8	gray flints	6, 17, 18
9	brown flint	12
10	cherts	7
11	quartzites	13
12	sandstone	19, 20

Spy: Raw material types

DePuydt and Lohest, Stratum 2

Ungrouped Material Types (mactype):

- 1 Obourg flint: fine-grained, black, translucent, glossy, translucent brown when thin enough, rarely patinates, few inclusions, chalk cortex
- 2 Hesbaye flint: fine-grained, glossy or matte, patinates bluish-white, gray when unpatinated, chalk cortex
 - 2a Hesbaye subtype 2a: fine-grained, commonly glossy, smooth
 - 2b Hesbaye subtype 2b: fine-grained but coarser than 2a, commonly matte
- 3 phtanite: black, matte, opaque, no inclusions, no cortex
 - 3a typical good quality phtanite
 - 3b poor quality phtanite: coarser
- 4 Wommersom quartzite
- 5 gray flint: light to dark gray, matte, opaque, fine to medium-grained, smooth but can see homogeneous grains or specks which are gray, white, beige
- 6 Spiennes flint: light to dark gray, many inclusions (ovoid spots, irregular splotches), fine-grained
- 7 black flint: opaque, glossy, fine-grained, inclusions are gray spots and irregular shapes (possibilities: Lixhe/Gulpen or Lanaye KVL 2a)
- 8 dark gray-black flint: dark gray to black, matte, opaque, similar to Type 7 but not at all glossy, few inclusions (specks and spots)
- 9 gray-tan flint 1: medium-grained, opaque, gray-tan, rough fracture surface, few inclusions (see no. 236)
- 10 chert: dark gray, matte, opaque, few inclusions, can have smooth or rough fracture surface
- 11 yellow-beige flint: yellowish-beige with white flecks, fine-grained, similar to Type 5.
- 12 gray-tan flint 2: fine-grained, gray-tan, few inclusions, mottled with inclusions of same or similar grain size (variant of Type 9?)
- 13 calcedony: very fine-grained, translucent white-beige, no inclusions
- 14 grès lustre: fine-grained, mostly silicified, very light gray with tiny black specks and sparkling grains (=Brussels sandstone?)
- 15 jasper: fine-grained, dark red
- 16 gray flint: fine-grained, homogeneous, no inclusions, smooth, glossy, mostly opaque
- 17 limestone: black, surface gray, hard (like at Trou Magrite)
- 18 quartzite
- 19 light brown flint: light brown, translucent, rougher than Obourg

Spy, continued:

Grouped	Name	Ungrouped
1	Obourg	1
2	Spiennes	6
3	Hesbaye	2, 2a, 2b
4	phtanite	3
5	Wommersom	4
6	unknown tan/ brown flints	9, 19
7	unknown black flints, prob. Tertiary	7, 8
8	gray flints	5, 11, 12, 16
9	brown flint	-
10	cherts	10
11	quartzites	18
12	sandstone	14
13	limestone	17
14	quartz	-
15	calcedony	13
16	jasper	15

Trou Magrite: Raw material types

Straus material types:

- 10 fine-grain flint Obourg/Hesbaye
- 11 fine-grain flint N. Belgium
- 12 medium-grain flint
- 13 fine-grain flint cretaceous
- 15 black flint
- 20 chert
- 30 phtanite
- 40 medium-grain limestone
- 41 fine-grain limestone
- 42 crystalized limestone
- 50 medium-grain quartzite
- 51 fine-grain quartzite/siltstone
- 52 quartz crystal
- 53 sandstone
- 54 Brussels sandstone
- 55 psammite
- 90 ochre/hematite
- 99 other stone

My TM material types:

- 1 Obourg
- 2 Hesbaye
 - 2a fine-grained
 - 2b coarser-grained
- 3 phtanite
- 4 Wommersom quartzite
- 5 Spiennes flint
- 6 black limestone
- 7 gray chert: light or dark gray
- 8 medium- to coarse-grained quartzite
- 9 black flint: not Obourg, opaque, sometimes very dark gray
- 10 coarse-grained quartzite: white to light gray
- 11 light gray flint: homogeneous color, fine-grained
- 12 light brownish-green flint: sparkling
- 13 chert: dark gray with sparkling specks like mica (but are probably quartz), poor quality
- 14 fine to medium-grained quartzite: white to light gray, homogeneous-rough surface, homogeneous sparkle
- 15 sandstone: light brown, soft but gritty
- 16 dark gray flint: translucent, chert-like, rough
- 17 quartz crystal
- 18 light gray flint: fine-grained, homogeneous, black specks
- 19 dark gray flint: marbled with white veins, fine-grained, glossy

Trou Magrite grouped material types:

Grouped types	Name	My ungrouped types	Straus ungrouped types
1	Obourg flint	1	
2	Spiennes flint	5	
3	Hesbaye flints	2	10, 11, 12
4	phtanite	3	30
5	Wommersom quartzite	4	
6	unknown tan/ brown flints	12	
7	unknown black flints, prob. Tertiary	9	15
8	gray flints	11, 16, 18, 19	13
9	brown flint	not present	
10	cherts	7, 13	20
11	quartzites	8, 10, 14	50, 51
12	sandstone	15	53, 54
13	limestone	6	40, 41, 42
14	quartz	17	52

Couvin, Trou de l'Abîme: Raw material types

Ungrouped material types:

- 1 gray flint 1: fine to very fine-grained, patinates a glossy white-gray with slightly darker gray flecks and spots (e.g., G7.34), some pieces have an orange-rust patina which has been found on various patinated Spiennes samples from Champ-à-Cailloux.
- 2 gray flint 2: fine to very-fine grained flint, patinates a glossy, mottled gray-white, no visible inclusions. On G7.37, elongated white blotches are present.
- 3 black limestone: medium-grained, black, hard, rough fracture surface
- 4 brown flint 1: fine-grained flint with numerous very tiny flaws - linear gaps like tracks by grains of sand - and black specks, patinates mostly beige/tan with some white. G8.14 has chalk cortex with dark brown flint visible. Can also be from Spiennes.
- 5 gray flint 3: fine-grained flint, patinates a homogeneous gray composed of tiny gray specks.
- 6 brown flint 2: fine-grained, beige-light brown flint, chalk cortex, irregular white veins. (Possibly burned - see H6.62).
- 7 quartzitic sandstone: coarse-grained, rough fracture surface, light gray
- 8 Spiennes flint: bluish-white patina commonly associated with both Spiennes and Hesbaye flints but likely to be Spiennes based on distance.

Grouped material types:

Grouped	Name	Ungrouped
1	gray flint	1, 2, 5
2	brown flint	4, 6
3	Spiennes flint	8
4	quartzitic sandstone	7
5	limestone	3