PROPOSED PERIOD
MECHANICAL CRITERIA
1A
EARLY PLANTATION
NOTES
1B
EARLY PLANTATION
NOTES
1C
TENANT FARM
NOTES
2
FORMAL MANOR
NOTES
YELLOW
EARLY PLANTATION
NOTES
Munsell Color Range
SR
Core 10YR 2.5/3; Interior and Surface 5R 3.2/4 YR 3/R SR 5R
SR/YR
Core 10YR 2.5/3; Interior and Surface 5R 3.2/4 YR 3/R SR 5R
SR/YR
Coring Pockets 10YR 2.5/3; Interior and Surface 5R 3.2/4 YR 3/R SR 5R
SR/YR
Interiors and Surface 5R 6.7-8.2
SYR
5Y/6-4/8 with various interior clay mineralogy
Offgassing Pockets/Extensive Coring
x
defective fabric, compromised by
x
corning with off-gassing components
x scattered pockets in fabric
- burn-out voids only
x
marbling throughout fabric
Fracture
x
rough (blasted phases)
X
flakable, softer clay weathed from harder
x rough, highly weathered
x sharp bumpy (homogeneous matrix)
X flakable, rough
Defective Deformation (Bloating, pinching, slumping)
X severe bloating
X See 1A; flaking, pinching
- heavily abraded surfaces, surface generally intact
- none observed
X
pinching, slumping, tearing, warping
Edge Retouch
x occasional wiping of side faces
x occasional wiping of side faces
- heavily sanded faces, all sides
X water-struck, streaky surface
- minimal
Extensive Vitrification
X surface and body, exterior and interior
- see 1A; defective type
- some vitrified hat
x thin, patchy vitrification
X thin with extensive crazes
Free Carbon
X vegetal fragments in porous matrix
X vegetal fragments in porous matrix, associated with mury
X vegetal fragments in porous matrix, internal casts
- vegetal carbon not observed, possible ash
- burn-out voids
Dry/Rough (Strong Clay)
- soft molding
- soft molding
x stiff molding, poorly mixed, corners often
x stiff molding
- soft molding, highly plastic
Inclusion/Fabric domains
X poor incorporation, expansion displacement
- localized defects
X internal concentrations, packages of sand in stiff
- sintering phases only
X sand/clay concentrations within fabric
Marbling/Planing
- common, incorporated into vitrification
X very clear, multi-layered
- none observed
- only in plastic components
X extensive red/black marbling of iron in clays
Intact along lines of marbling
Shaping Whorls
X weak; expansion rupture along fault lines
X flattened loop
X strong clay, intact S-loops showing wedging
- none observed
X weak, generally lost in sintering
Apatite Clay components (Shrinkage/Expansion)
X rounded, fine-grained and nodules
X rounded, fine-grained and nodules
X rounded, fine-grained and nodules
- none observed/ductile clay pellets
Coring (R/B)
X black reduction coring, off-gassing phases
X extensive coring; nodules, layered color
X black and red (fluctuating redox)
- none observed
- none observed, highly heterogeneous fabric
15-20% high-fired, >50% sand
Ponosity
<10%
micaceous clay matrix, highly vitrified clay
X irregular, permeable surfaces
7-10%
firing stabilized due to thermal mass
10-15%
evenly fired, highly sintered
Secondary Burning/Soot
- none observed
- none observed
x rubble surface traces
X none observed
x occasional amalgulating of rubble pieces
Salt Extrusion (“whites”)/Calcite
- none observed (salting components vitrified)
- none observed (salting components vitrified)
- none observed/pore lining (post-depositional)
x/-
X low, efflorescence or standing waterlogging (e.g. F. 226 and * *)
x/-
X white wash, kiln scum, effluorescence/mortar traces in rubble
- none observed/scant mortar traces
MINERALOGY
1A
NOTES
1B
NOTES
1C
NOTES
2
NOTES
YELLOW
NOTES
FABRIC BIRDCRACKS (FRACTURE)
very low
extensively and mottled vitrified, ovoider
low
moderate
over-fired to mid-range
low
moderate
under-fired to mid-range
low
moderate
under-fired to mid-range
moderate
even firing
low
high-fired clay components
Quartz (crushed angular tempar, incl. pebbles, cobbles)
x/-
some 5-scrisson observed, pebbles <2cm, large crushed angular fragments
x rounded pebbles <2cm, highly angular crushed, poorly sorted
x pebbles >1.3 cm, highly angular-crushed, extended crushed temper, moderately sorted
X angular temper <2mm; no pebbles
- well-sorted sands; sparse angular fragments >0.3 mm
Quartz sands, bi-modal (<3mm and >3mm)
x poorly sorted sands, micaceous, sub-angular to rounded
x poorly sorted sands, micaceous, sub-rounded to rounded
x moderately sorted sands, micaceous, sub-angular to rounded
- fine-very fine well-sorted sands, sub-rounded
- well-sorted, highly rounded marle sands
Sedimentary Rock (Sandstone)
- none observed
x cemented sands <3mm
x fragments 3-6mm (in handsample)
- none observed
X cemented and vitrified sand matrix
Shell (calcined/whole)
- none observed
- none observed
- none observed
- none observed
X incorporated in fabric
Felsic/Mafics >2mm
x/-
Coarse grained, sub-angular granite, gneiss
x/-
Coarse grained, sub-angular granite, gneiss
X/-
as 1A/5; possible andesite
X/-
frangments <2mm
- none observed
Orthoclase/Plagioclase (albite twins, sericite, sheeting)
- various states of sericite weathering, large fragments >4cm
x/-
X variegated states of sericite weathering, medium grains, large fragments >4cm
x/-
X large fragments >3mm, angular plagioclase including perthite
x/-
Angular fragments <2mm, no weathering observed
X as fine sand components, trace
Micas (Hornblende, Biotite, Augite) acicular-platy
X brown greenish-pink phlogopite <2mm
X yellow-brown greenish-pink phlogopite 0.5-2mm
X brown greenish-pink phlogopite; sand fraction, felsic components <2mm
X scattered in fine sands; yellow-brown phlogopite
X sparse; yellow-brown phlogopite
Dried clay (production waste)
- minimal
- minimal, poorly mixed fabrics
X extensive use of angular fragments
X extensive use of angular fragments, highly sintered
X fusing, vitriication of clay components
Fired Grog (brick dust, marbled fragments etc.)
- none observed
- minimal
X few sintered particles, shrinkage rims
X sintered particles, marbling
- minimal, of yellow base clay
Clay concretions/nodules (Iron oxides, carbon)
- none observed
- minimal
X fabric components, and distinct inclusions
X fabric components and distinct inclusions
X extensively highly spherical-rhombic fabric components, >5mm
X spherical microscopic components in fabric, “freckles”
- none observed
Iron oxides, nodules in thin sections
X mostly opaque, dull reddish tinge
X reddish-lozenge shaped, patchy-rounded
X amorphous-subrounded; dull red/opaque
X amorphous-subrounded; dull red/opaque
X as iron-bearing sands incl. magnetite
Other opaques (ash, coal, finings)
- none observed
- none observed
X sparse, sub-rounded
X lozenges, flecks
X angular flecks
Pyrite/Iron Staining
- none iron staining and golden specks
X extensive, in under fired fabrics; golden specks
- minimal
X few; flecks <0.2mm
X trace