**Appendix D York Potash Ltd/AngloAmerican (Formerly Sirius Minerals Plc) Core Store Reports**

**08/12/2016: Visit #1**

Core sampled: **SM11 Dove’s Nest** Bröckelschiefer (EZ5) to base of Fordon Evaporite Formation (EZ2)

**06/12/2018: Visit #2**

Cores sampled:

* SM4 – 18 samples, predominantly pure-argillaceous halite samples, some mudstones
* SM7 – 10 samples, argillaceous mudstone laminae within carbonates, some pyritic influence
* SM14b – 17 samples, a lot of dark argillaceous halite, and argillaceous mudstones (full core)
* SM11 (resampling with higher precision, filling in gaps from December 2016 sampling) – 50 samples, most varied lithologies and longest core, hygroscopic marl, argillaceous mudstones,

**SM4 Gough -** Sneaton Halite (EZ4) to top of Fordon Evaporite Formation (EZ2)

**SM7 Mortar Hall -** Brotherton Formation (EZ3) to Fordon Evaporite Formation (EZ2)

**SM14b Woodsmith Mine North Shaft -** Brotherton Formation (EZ3) to Fordon Evaporite Formation (EZ2)

**SM11 Doves Nest -** Sherburn Anhydrite (EZ4) to base of Fordon Evaporite Formation (EZ2)



Figure 1. Potash from the Fordon Evaporite Formation (EZ2) (08/12/2016) (SM11 Dove’s Nest).



Figure 2. Carnallite and Sylvinite from the Fordon Evaporite Formation (SM11 Dove’s Nest) (08/12/2016).



Figure 3. Boulby Halite EZ3 (SM11 Dove’s Nest) (08/12/2016).



Figure 4. Carnallitic Marl Formation (EZ4) (SM11 Dove’s Nest) (08/12/2016).



Figure 5. Sherburn Anhydrite (EZ4) (SM11 Dove’s Nest) (08/12/2016).



Figure 6. Red mudstone from the Sleights Siltstone (SM11 Dove’s Nest) (08/12/2016).



Figure 7. Sample of argillaceous halite (06/12/2018).