Sample # Formation Age Location Lat/Long Date/Description Local in section Analyses

CO11-EC-1JebbEntrada - Board Beds Member Jurassic Escalante Canyon N38° 42.634’ W108° 16.683’ May 12, 2011 Host Rock for comparison with the earthy facies and Jw sandstones polished thin section, DZ

CO11-EC-1JeefEntrada - Earthy facies Jurassic Escalante Canyon N38° 42.634’ W108° 16.683’ May 12, 2011 typical earthy facies host rock for comparison with Board beds and Jw sandstones polished thin sections, DZ

CO11-EC-2JeffEntrada - Earthy facies Jurassic Escalante Canyon N38° 42.634’ W108° 16.683’ May 12, 2011 chert from “carnelian marker bed”

CO11-EC-1Jw Wanakah Fm Jurassic Escalante Canyon N38° 42.634’ W108° 16.683’ May 12, 2011 basal sandstone or comparison with Jeb and Jeef XRD

CO11-EC-2Jw Wanakah Fm Jurassic Escalante Canyon N38° 42.634’ W108° 16.683’ May 12, 2011 basal sandstone polished thin section, DZ

CO11-EC-3Jw Wanakah Fm Jurassic Escalante Canyon N38° 42.634’ W108° 16.683’ May 12, 2011 calcite sandstone and top of basal tripartite sandstone polished thin section, XRD, DZ

CO11-EC-4Jw Wanakah Fm Jurassic Escalante Canyon N38° 42.634’ W108° 16.683’ May 12, 2011 algal structure - stromatolite? XRD, WRA, polished TS, WRA, C isotopes

CO11-EC-5Jw Wanakah Fm Jurassic Escalante Canyon N38° 42.634’ W108° 16.683’ May 12, 2011 micrite WRA, C isotopes

CO11-EC-6Jw Wanakah Fm Jurassic Escalante Canyon N38° 42.634’ W108° 16.683’ May 12, 2011 lower red siltstone ~25 cm above cm above lower contact with micrite XRD

CO11-EC-7Jw Wanakah Fm Jurassic Escalante Canyon N38° 42.634’ W108° 16.683’ May 12, 2011 upper red siltstone ~60 cm from micrite Xrd, WRA

CO11-EC-8Jw Wanakah Fm Jurassic Escalante Canyon N38° 42.634’ W108° 16.638’ May 12, 2011 nodules at transition from red to green WRA

CO11-EC-9Jw Wanakah Fm Jurassic Escalante Canyon N38° 42.634’ W108 16.683’ May 12, 2011 lower green ~1.5 m from micrite WRA

CO11-EC-10Jw Wanakah Fm Jurassic Escalante Canyon N38° 42.634’ W108° 16.683’ May 12, 2011 upper green with Fe-stained slickensides 3.1 m from micrite

CO11-EC-11Jw Wanakah Fm Jurassic Escalante Canyon N38° 42.634’ W108° 16.683’ May 13,2011 basal limestone in upper “Tidwell”-looking section C isotopes

CO11-EC-12Jw Wanakah Fm Jurassic Escalante Canyon N38° 42.634’ W108° 16.683’ May 13, 2011 lower siltstone

CO11-EC-13Jw Wanakah Fm Jurassic Escalante Canyon N38° 42.634’ W108° 16.683’ May 13, 2011 lower clay for XRD

CO11-EC-14Jw Wanakah Fm Jurassic Escalante Canyon N38° 42.634’ W108° 16.683’ May 13, 2011 middle limestone C isotopes, WRA

CO11-EC-15Jw Wanakah Fm Jurassic Escalante Canyon N38° 42.634’ W108° 16.683’ May 13, 2011 middle siltstone XRD, WRA

CO110EC-16Jw Wanakah Fm Jurassic Escalante Canyon N38° 42.634’ W108° 16.683’ May 13, 2011 top limestone C isotopes

CO11-EC-17Jw Wanakah Fm Jurassic Escalante Canyon N38° 42.634’ W108° 16.683’ May 13, 2011 top siltstone note- this sample probably also labelled 16Jw

CO11-EC-1Jmt or CO11-EC - 17Jw (should be 18Jw) Wanakah Fm Jurassic Escalante Canyon N38° 42.634’ W108° 16.683’ May 13, 2011 ash from top of A bed

CO11-EC-2Jmt Morrison Fm, Tidwell Member Jurassic Escalante Canyon N38° 42.634’ W108° 16.683’ May 13, 2011 A bed sandstone polished ts, DZ, WRA

CO11-EC-3Jmt Morrison Fm, Tidwell Member Jurassic Escalante Canyon N38° 42.634’ W108° 16.683’ May 13, 2011 upper sandstone above A bed polished ts, XRD, DZ, WRA

CO11-EC-4Jmt Morrison Fm, Tidwell Member Jurassic Escalante Canyon N38° 42.634’ W108° 16.683’ May 13, 2011 crinkly bedding

CO11-EC-5Jmt Morrison Fm, Tidwell Member Jurassic Escalante Canyon N38° 42.634’ W108° 16.683’ May 13, 2011 basal limestone/sandstone above A bed C isotopes

CO11-EC-6Jmt Morrison Fm, Tidwell Member Jurassic Escalante Canyon N38° 42.634’ W108° 16.683’ May 13, 2011 basal shale above A bed WRA

CO11-EC-7Jmt Morrison FM, Tidwell Member Jurassic Escalante Canyon N38° 42.634’ W108° 16.683’ May 13, 2011 sandstone ~1m above A bed; calcitic polished ts, XRD, C isotopes

CO11-EC-8Jmt Morrison Fm, Tidwell Member Jurassic Escalante Canyon N38° 42.634’ W108° 16.683’ May 13, 2011 shale from red/green transition

CO11-EC-9mt Morrison Fm, Tidwell Member Jurassic Escalante Canyon N38° 42.634’ W108° 16.683’ May 13, 2011 sandstone ledge ~1m above A bed in lower red part XRD

CO11-EC-10Jmt Morrison Fm, Tidwell Member Jurassic Escalante Canyon N38° 42.634’ W108° 16.683’ May 13, 2011 mounded carbonate structures; algal looking; similar to algal structures in Jw XRD, WRA, polished TS WRA, polished TS, C isotopes

CO13-EC-1Jmt Tidwell Member Jurassic Escalante Canyon N38° 42.634’ W108° 16.683’ March 23, 2013 carbonate concretions in green mudrock; some with smooth grey sides, some clear vug fill