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

CO10-Dt-1Jw Wanakah Fm Jurassic Duncan Trail N38° 38.92’1 W107° 52.014’ July 26, 2010 calcite and iron deformation band fill

CO10-DT-2Jw Wanakah Fm Jurassic Duncan Trail N38° 38.921’ W107° 52.014’ July 26,2010 HFO+? Concretions; one with very well rounded Q grains WRA, polished TS

CO10-DT-3Jw Wanakah FM Jurassic Duncan Trail N38° 38.921’ W107° 52.014° July 26, 2010 hypsum

CO10-DT-4Jw Wanakah Fm Jurassic Duncan Trail N38° 38.921’ W107° 52.014’ July 26,2010 ss host rock

CO10-DT-4Jw Wanakah Fm Jurassic Duncan Trail N38° 39.037’ W107° 51.844’ July 26, 2010 HFO concretions in gypsum S isotopes

CO11-Dt-1Jw Wanakah Fm Jurassic Duncan Trail N38° 39.356’’ W107° 51.832’ May 14,2011 basal ss directly below massive gypsum bed

CO11-DT-2Jw Wanakah Fm Jurassic Duncan Trail N38° 39.356’’ W107° 51.832’ May 14,2012 chert from basal tripartite ss “carnelian” for comparison with other “carnelian” chert and possible microbial signatures

CO11-Dt-3Jw Wanakah Fm Jurassic Duncan Trail N38° 39.356’’ W107° 51.852’ May 14,2013 red mudrock with blocky structure from red/gypsum contact WRA polished TS

CO11-DT-4Jw Wanakah Fm Jurassic Duncan Trail N38° 39.356’’ W107° 51.832’ May 14,2014 red gypsum from red/gypsum contact S isotopes

CO11-DT-5Jw Wanakah Fm Jurassic Duncan Trail N38° 39.356’’ W107° 51.832’ May 14, 2015 green interbedded gypsum