

Table 1. Sample location GPS coordinates.

<u>Sample ID</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Formation Name</u>
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Price River Canyon _Castle Valley, UT

13PRUC	39.76348	-110.899	Bluecastle Tongue
11Upr01	39.76096	-110.894	Middle Castlegate
11Upr02	39.75668	-110.89	Middle Castlegate
11Upr03	39.75362	-110.888	Castlegate Sandstone
11Upr04	39.75014	-110.885	Aberdeen Mbr
11Upr05	39.73889	-110.875	Spring Canyon Mbr
11Upr06	39.72698	-110.868	Spring Canyon Mbr
11Upr07	39.71235	-110.868	Storrs Sandstone
Panther T.	39.71214	-110.869	Panther Tongue

North San Rafael Swell, UT

11Uccr04	39.70181	-110.685	Kenilworth Mbr
13EMERY	39.65233	-110.908	Emery Sandstone
11Uccf03	39.54602	-110.661	Emery Sandstone
11Uccf04	39.54313	-110.659	Ferron Sandstone
11Uccf05	39.53673	-110.621	Ferron Sandstone

Sunnyside Canyon, UT

11Uss01	39.55665	-110.382	Kenilworth Mbr
11Uss02	39.56005	-110.375	Sunnyside Mbr
11Uss03	39.56826	-110.372	Sunnyside Mbr
11Uss04	39.57516	-110.371	Castlegate Sandstone
11Uss05	39.58104	-110.368	Castlegate Sandstone
11Uss06	39.58643	-110.371	Middle castlegate
11Uss07	39.59296	-110.373	Bluecastle Tongue

Green River _Tusher Canyon Area, UT

Bluecastle	38.99797	-109.923	Bluecastle Tongue
13GRT-01	39.09672	-110.046	Sunnyside Mbr
13GRT-02	39.1	-110.034	Grassy Mbr
13GRT-03	39.10001	-110.034	Desert Mbr
13GRT-04	39.09767	-110.024	Castlegate Sandstone
13WSUN	39.25538	-110.282	Sunnyside Mbr
13WKEN	39.25608	-110.28	Kenilworth Mbr

Mount Garfield, CO

13GJR-01	39.12875	-108.386	Rollins Sandstone Mbr
13GJCOCE-	39.12814	-108.388	Cozzette Mbr
13GJCO-01	39.12675	-108.392	Concoran Mbr

Near Rangely, CO

Sample No.	40.07922	-108.89	Loyd Sandstone
Sample No.	40.20157	-108.862	Sego Sandstone
Sample No.	39.94463	-108.758	Neslen Formation

Near Meeker, CO

13MORA-1	40.28664	-107.646	Marapos Sandstone
13MEE1	40.08482	-107.854	Meeker Sandstone