

1 Geochronology samples were collected from both outcrop and core.
2 Approximately 3-5 kg of material were collected from each sample locality. Core
3 samples were collected from the sandiest parts of the core interval examined. A 1.5 m
4 continuous section of core was sampled by cutting a 2.5 cm wide slice off of the back of
5 the core. Prior to further processing, the pieces of core were washed and scrubbed with a
6 wire brush to remove possible contamination from drilling mud. Samples were then
7 crushed using a rock hammer and disc mill (Larsen and Poldervaart, 1957), and sorted by
8 density using a Wilfley table and organic heavy liquids (bromoform ($\rho=2.96 \text{ g/cm}^3$) and
9 methylene iodide ($\rho=3.32$)). Prior to the heavy liquid mineral separation, a Frantz
10 magnetic separator was used in freefall mode to remove metal shavings and strongly
11 magnetic minerals. Following the heavy liquid separation, samples were processed
12 through a Frantz magnetic separator three times, once with all of the grains at 1.0 \AA , once
13 with the non-magnetic fraction from the previous step at 1.8 \AA , and finally the magnetic
14 fraction at 1.8 \AA to ensure that no non-magnetic grains had become entrained with the
15 magnetic grains and improperly sorted. The mechanical parameters for each of these
16 steps were set at 20° side slope and 20° front slope to minimize bias towards less
17 paramagnetic age populations at the expense of increased discordance in the sample
18 population (Sircombe and Stern, 2002). To minimize bias in visual picking, 1000-2000
19 grains were separated from a small aliquot of the non-magnetic fraction. From the
20 selected fraction ~500 grains were pipetted onto a sheet of weighing paper and dried.
21 Each sample was allotted a 1 x 10 mm space on the 2.5 cm epoxy mount, and as many
22 pipetted grains as possible were placed in 4 rows on double-stick tape to construct the
23 mount. Typically 250-350 grains were mounted per sample. Epoxy was poured around
24 the grains to create a 1" diameter epoxy mount. The epoxy mount was ground using a
25 30 μm grit grinding disc to expose the grains, and then polished using 1 μm grit polishing
26 paste. Cathodoluminescence (CL) images were produced for each grain to serve as a
27 guide during ablation.

Zircon grains were analyzed on a GVI Isoprobe multicollector magnetic sector Laser Ablation-Inductively Coupled Plasma-Mass Spectrometer (LA-ICP-MS) with a Merchantek New Wave LUV213 sample introduction system, using a 213 nm Nd:YAG laser to ablate the grains. Faraday cups with 10^{11} Ω resistors were used to collect ^{238}U , ^{207}Pb , and ^{206}Pb , while a channeltron ion counter was used to collect ^{204}Pb in isobaric interference with ^{204}Hg . The laser was set at 52% power with a 30 μm spot size and 10 Hz laser cycle, resulting in approximately 70-80 J/cm² of energy delivered to ablate the zircon grain during each analysis. U concentrations for each grain were determined based on an analysis carried out on NIST SRM 610 glass (^{238}U concentration ~461.5 ppm) (Reed, 1992) at the beginning of each day. Prior to analysis, each grain was pre-ablated for 1-2 s with an expanded 410 μm laser beam, delivering 2-3 J/cm² of energy, in order to remove any material that may have accumulated on the grain surfaces while the mount was exposed during transfer to the sample introduction system. Each analysis consisted of 30 s data collection prior to ablation to measure background counts, otherwise known as an on peak zero, 10 s warm-up time for the laser and 20 s analysis time, followed by 20-30 s to flush the ablation chamber before analyzing the next grain. Every effort was made to ablate only the most recent magmatic growth of each grain since this will indicate its crystallization age and can be linked to a basement provenance. CL images were used to identify recycled cores and metamorphic rims on grains so that they could be avoided during isotopic analysis (Connelly, 2001; Corfu et al., 2003). To reduce the effects of any bias in the order of the placement of grains in the mounts every other grain was analyzed, so that grains from all rows could be analyzed. Analyses of the in-house standard S97-19 were conducted after every 15 unknown grains to characterize mass fractionation and elemental (U/Pb) bias during the course of the day. S97-19 has been characterized by ID-TIMS at The University of Texas at Austin. In addition, the Plešovice (PL) zircon standard (Sláma et al., 2008) was analyzed to monitor system behavior. Reproducibility of PL during the course of the measurements was 336.7 ± 1.4

55 (2 σ , n=140). Typically 135-150 grains were analyzed per sample, so that even after
56 rejecting some analyses due to high discordance or error there should be approximately
57 120 acceptable ages for each sample. This meets the criteria of Vermeesch (2004), so it
58 is possible to be certain, at the 95% confidence level, of not missing a fraction of the
59 population comprising at least 5% of the total population. While many detrital zircon
60 studies typically have approximately 100 grains per sample ([Dickinson and Gehrels,
2003, 2008a, b, 2009; Dickinson et al., 2009](#)), Andersen (2005) warns that interpretations
61 of the relative proportions of inputs from different source areas even when 120 grains are
62 analyzed must be looked at with caution. In his study, Andersen (2005) used Monte
63 Carlo simulations to compare the age spectra of samples of 120 grains drawn from a total
64 population of 2000 grains to the age spectra of the total population, and found that the
65 sample populations were not quantitatively similar to the total population.

66
67 Data were downloaded and reduced off-line using in-house Excel software to
68 remove unacceptable data points for each analysis that may be the product of common Pb
69 on the surface of the epoxy mount, ablating into another zone of the grain or ablating all
70 the way through the grain. Depth-dependent U/Pb fractionation was also corrected at this
71 step by using regression of the U/Pb data points to determine the initial U/Pb ratio at time
72 zero (Košler and Sylvester, 2003). A second step of data reduction was conducted to
73 correct for mass fractionation, elemental bias, and initial Pb. An isobarically corrected
74 $^{206}\text{Pb}/^{204}\text{Pb}$ ratio was determined using the method of Gehrels et al. (2006), and then used
75 to correct for common Pb using the Stacey and Kramers (1975) model for Pb evolution.
76 Following established lab procedure, no uncertainty was applied to the common Pb
77 correction. Work by the University of Texas at Austin LA-ICP-MS lab has found that for
78 moderately radiogenic zircons, the uncertainty on the grain age is dominated by
79 uncertainty on the U/Pb ratios, while uncertainty on the common Pb correction typically
80 makes up less than 1% of the final age uncertainty (Housh, 2009, personal
81 communication). Finally, mass fractionation and elemental bias factors determined on

the standard were applied to the unknowns to determine the corrected, radiogenic $^{206}\text{Pb}^*/^{238}\text{U}$ and $^{207}\text{Pb}^*/^{206}\text{Pb}^*$ ratios and ages. The $^{207}\text{Pb}^*/^{235}\text{U}$ ratio and age was determined using a $^{238}\text{U}/^{235}\text{U}$ ratio of 137.88 (Faure and Mensing, 2005). Measured errors as well as the errors associated with mass fractionation and the elemental (U/Pb) bias determined on the standard S97-19 were propagated to yield the final errors on $^{207}\text{Pb}^*/^{206}\text{Pb}^*$, $^{206}\text{Pb}^*/^{238}\text{U}$, and $^{207}\text{Pb}^*/^{235}\text{U}$ for the unknown grains; measured errors alone are reported for $^{206}\text{Pb}/^{204}\text{Pb}$. The best ages for each grain were identified based on the $^{206}\text{Pb}^*/^{238}\text{U}$ age for grains generally younger than 1000 Ma and the $^{207}\text{Pb}^*/^{206}\text{Pb}^*$ age for grains generally older than 1000 Ma; however, the precise cutoff was picked individually for each sample to avoid splitting up clusters of grain ages. Discordance for each analysis was determined using the following equation:

$$\text{Discordance} = \left(\frac{\text{age}_{^{207}\text{Pb}^*/^{235}\text{U}} - \text{age}_{^{206}\text{Pb}^*/^{238}\text{U}}}{(\text{age}_{^{207}\text{Pb}^*/^{235}\text{U}} + \text{age}_{^{206}\text{Pb}^*/^{238}\text{U}})/2} \right) \quad (1)$$

Grains were filtered by discordance and error with the filter being set at -10% to 60% discordance for grains younger than 350 Ma, -10% to 30% discordance for grains 1000-350 Ma in age, and -5% to 10% discordance for grains older than 1000 Ma. Grains outside of those ranges or with 1σ error exceeding 10% on the best age were excluded from further analysis.

All plots and analysis were conducted using Isoplot 3.2 and 3.7 (Ludwig, 2003, 2008) and Excel worksheets designed by the University of Arizona (U of A) Laserchron center (available online at <http://sites.google.com/a/laserchron.org/laserchron/home>). Statistical tests of sample similarity were conducted using the K-S Test 1.0.xls spreadsheet available from the U of A Laserchron center. The website listed above has documentation on how the spreadsheet works, but in short it uses a non-parametric Kolmogorov-Smirnov test to compare the cumulative probability density functions of the two samples. The maximum distance between the two curves is determined and is used

- 108 to calculate the probability that the two samples came from the same population. If
109 P>0.05 then the user can not be confident, at the 95% confidence level, that the samples
110 were not drawn from different sources~~the samples are said to have come from the sample~~
111 ~~population at the 95% confidence interval.~~
- 112
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- 153
- 154

Sample Name: GM-C-051408-1
 Sample Type: Outcrop

Sub-unit: Upper Wilcox
 Total Points Counted: 350

Category	Counts	Category	Counts
Quartz			
Mono Crystalline:	158	Porosity	
Poly Crystalline:	23	Intergranular:	64
Volcanic:	2	Intragranular Plagioclase:	4
Sedimentary:	3	Intragranular Microcline:	1
Total:	186	Intragranular Potassium Feldspar:	
Feldspar			
Plagioclase:	3	Intragranular Unknown Feldspar:	
Orthoclase:	2	Oversized:	4
Microcline:	5	Intragranular VRF:	
Total:	10	Intragrannular MRF:	
Sedimentary Rock Fragment (SRF)			
Argillaceous RF ^a :	1	Intragrannular SRF:	
Chert:	7	Intragranular Unknown RF:	2
Siltstone RF:		Intragranular Unknown Grain:	
Sandstone RF:		Total:	75
Argillaceous Chert:	4		
Unknown SRF:			
Total:	12		
Metamorphic Rock Fragment (MRF)			
Quartzofeldspathic:	6	Cement/Overgrowth	
Quartz-Rich		Quartz:	
foliated:	1	Kaolinite:	
polygonal:	1	Fe-Oxide:	
Mica-Rich		Calcite	
foliated:	1	intergranular:	
polygonal:		oversized:	
Unknown MRF:		Total:	0
Total:	9		
Volcanic Rock Fragment (VRF)			
Microlitic:		Grain Replacement	
Lathwork:	1	Kaolinite	
Felsitic:	1	Orthoclase:	
Altered VRF:		Microcline:	
Unknown VRF:		Plagioclase:	
Total:	2	Unknown Feldspar:	
		SRF:	
		VRF:	
		MRF:	
		Mica:	
		Unknown RF:	
		Unknown Grain:	
		Calcite	
		Orthoclase:	
		Microcline:	
		Plagioclase:	
		Unknown Feldspar:	
		SRF:	
		VRF:	
		MRF:	
		Mica:	
		Unknown RF:	
		Unknown Grain:	
		Fe-O	
		Orthoclase:	
		Microcline:	
		Plagioclase:	
		Unknown Feldspar:	
		SRF:	
		VRF:	
		MRF:	
		Mica:	
		Unknown RF:	
		Unknown Grain:	
		Total:	0
Accessory Minerals			
Muscovite:			
Biotite:			
Tourmaline:			
Sphene:			
Zircon:			
Total:	0		
Other			
Unknown RF:			
Total:	0		
Matrix			
Clay Cutans:	56		
Pore Filling:			
Total:	56		

^a Rock Fragment

Sample Name: GM-C-051408-2

Sub-unit: Upper Wilcox

Sample Type: Outcrop

Total Points Counted: 350

Category	Counts	Category	Counts
Quartz			
Mono Crystalline:	138	Porosity	
Poly Crystalline:	16	Intergranular:	93
Volcanic:	5	Intragranular Plagioclase:	
Sedimentary:	3	Intragranular Microcline:	
Total:	162	Intragranular Potassium Feldspar:	1
		Intragranular Unknown Feldspar:	1
		Oversized:	30
		Intragranular VRF:	
Feldspar		Altered VRF:	1
Plagioclase:	1		
Orthoclase:	5		
Microcline:	4		
		Intragranular MRF:	
Total:	10		
Sedimentary Rock Fragment (SRF)			
Argillaceous RF ^a :		Intragranular SRF:	
Chert:	5		
Siltstone RF:			
Sandstone RF:			
Argillaceous Chert:	3		
Unknown SRF:			
Total:	8		
Metamorphic Rock Fragment (MRF)			
Quartzofeldspathic:	2	Cement/Ovgrowth	
Quartz-Rich		Quartz:	
foliated:		Kaolinite:	
polygonal:		Fe-Oxide:	
Mica-Rich		Calcite	
foliated:		intergranular:	
polygonal:		oversized:	
Unknown MRF:		Total:	0
Total:	2		
Volcanic Rock Fragment (VRF)			
Microlitic:		Grain Replacement	
Lathwork:		Kaolinite	
Felsitic:		Orthoclase:	
Altered VRF:	1	Microcline:	
Unknown VRF:		Plagioclase:	
		Unknown Feldspar:	
Total:	1	SRF:	
		VRF:	
		MRF:	
		Mica:	1
		Unknown RF:	
		Unknown Grain:	
Accessory Minerals		Calcite	
Muscovite:		Orthoclase:	
Biotite:		Microcline:	
Tourmaline:		Plagioclase:	
Sphene:		Unknown Feldspar:	
Zircon:		SRF:	
Total:	0	VRF:	
		MRF:	
		Mica:	
Other		Unknown RF:	
Unknown RF:		Unknown Grain:	
		Fe-O	
		Orthoclase:	
		Microcline:	
Total:	0	Plagioclase:	
		Unknown Feldspar:	
Matrix		SRF:	
Clay Cutans:	40	VRF:	
Pore Filling:		MRF:	
Total:	40	Mica:	
		Unknown RF:	
		Unknown Grain:	
^a Rock Fragment		Total:	1

Sample Name: GM-C-051408-3
 Sample Type: Outcrop

Sub-unit: Upper Wilcox
 Total Points Counted: 349

Category	Counts	Category	Counts
Quartz			
Mono Crystalline:	150	Porosity	
Poly Crystalline:	14	Intergranular:	90
Volcanic:		Intragranular Plagioclase:	
Sedimentary:	1	Intragranular Microcline:	
Total:	165	Intragranular Potassium Feldspar:	2
Feldspar			
Plagioclase:	1	Intragranular Unknown Feldspar:	1
Orthoclase:	3	Oversized:	26
Microcline:		Intragranular VRF:	
Total:	4	Intragranular MRF:	
Sedimentary Rock Fragment (SRF)			
Argillaceous RF ^a :	1	Intragranular SRF:	
Chert:	8	Chert:	1
Siltstone RF:	1	Intragranular Unknown RF:	
Sandstone RF:		Intragranular Unknown Grain:	1
Argillaceous Chert:	4	Total:	121
Unknown SRF:	1		
Total:	15		
Metamorphic Rock Fragment (MRF)			
Quartzofeldspathic:		Cement/Ovgrowth	
Quartz-Rich		Quartz:	
foliated:		Kaolinite:	
polygonal:		Fe-Oxide:	
Mica-Rich		Calcite	
foliated:		intergranular:	
polygonal:		oversized:	
Unknown MRF:		Total:	0
Total:	0		
Volcanic Rock Fragment (VRF)			
Microlitic:		Grain Replacement	
Lathwork:		Kaolinite	
Felsitic:		Orthoclase:	
Altered VRF:		Microcline:	
Unknown VRF:		Plagioclase:	
Total:	0	Unknown Feldspar:	
Accessory Minerals		SRF:	
Muscovite:		VRF:	
Biotite:		MRF:	
Tourmaline:	1	Mica:	
Sphene:		Unknown RF:	
Zircon:	1	Unknown Grain:	
Total:	2	Calcite	
Other		Orthoclase:	
Unknown RF:		Microcline:	
		Plagioclase:	
		Unknown Feldspar:	
Total:	0	SRF:	
Matrix		VRF:	
Clay Cutans:	27	MRF:	
Pore Filling:	15	Mica:	
Total:	42	Unknown RF:	

^a Rock Fragment

Unknown Grain:	
Total:	0

Sample Name: GM-C-051408-5
Sample Type: Outcrop

Sub-unit: Upper Wilcox
Total Points Counted: 352

Category	Counts	Category	Counts
Quartz			
Mono Crystalline:	171	Porosity	
Poly Crystalline:	20	Intergranular:	84
Volcanic:		Intragranular Plagioclase:	
Sedimentary:		Intragranular Microcline:	
		Intragranular Potassium Feldspar:	
Total:	191	Intragranular Unknown Feldspar:	1
Feldspar			
Plagioclase:		Oversized:	21
Orthoclase:	7	Intragranular VRF:	
Microcline:	1	Altered VRF:	1
Unknown Feldspar:	1		
Total:	9		
Sedimentary Rock Fragment (SRF)			
Argillaceous RF ^a :	2	Intragranular SRF:	
Chert:	3		
Siltstone RF:			
Sandstone RF:			
Argillaceous Chert:	4		
Unknown SRF:			
Total:	9		
Metamorphic Rock Fragment (MRF)			
Quartzofeldspathic:		Cement/Overgrowth	
Quartz-Rich		Quartz:	
foliated:		Kaolinite:	
polygonal:		Fe-Oxide:	
Mica-Rich		Calcite	
foliated:		intergranular:	
polygonal:		oversized:	
Unknown MRF:		Total:	0
Total:	0		
Volcanic Rock Fragment (VRF)			
Microlitic:		Grain Replacement	
Lathwork:	1	Kaolinite	
Felsitic:	3	Orthoclase:	
Altered VRF:	1	Microcline:	
Unknown VRF:		Plagioclase:	
		Unknown Feldspar:	
		SRF:	
		VRF:	
		MRF:	
		Mica:	
Total:	5	Unknown RF:	
		Unknown Grain:	
Accessory Minerals		Calcite	
Muscovite:		Orthoclase:	
Biotite:		Microcline:	
Tourmaline:		Plagioclase:	
Sphene:		Unknown Feldspar:	
Zircon:		SRF:	
Total:	0	VRF:	
		MRF:	
		Mica:	
		Unknown RF:	
		Unknown Grain:	
Other		Fe-O	
Unknown RF:		Orthoclase:	
Unknown Highly Dissolved		Microcline:	
Grain:	3	Plagioclase:	
		Unknown Feldspar:	
Total:	3	SRF:	
Matrix			

Clay Cutans:	28
Pore Filling:	
Total:	28

^a Rock Fragment

VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Total:	0

Sample Name: GM-C-051408-7
 Sample Type: Outcrop

Sub-unit: Upper Wilcox
 Total Points Counted: 350

Category	Counts
Quartz	
Mono Crystalline:	142
Poly Crystalline:	22
Volcanic:	12
Sedimentary:	1
Total:	177

Category	Counts
Feldspar	
Plagioclase:	1
Orthoclase:	3
Microcline:	
Total:	4

Category	Counts
Sedimentary Rock Fragment (SRF)	
Argillaceous RF ^a :	
Chert:	2
Siltstone RF:	1
Sandstone RF:	
Argillaceous Chert:	4
Unknown SRF:	
Total:	7

Category	Counts
Metamorphic Rock Fragment (MRF)	
Quartzofelspathic:	
Quartz-Rich	
foliated:	
polygonal:	
Mica-Rich	
foliated:	
polygonal:	
Unknown MRF:	
Total:	0

Category	Counts
Volcanic Rock Fragment (VRF)	
Microlitic:	
Lathwork:	
Felsitic:	1
Altered VRF:	1
Unknown VRF:	
Total:	2

Category	Counts
Accessory Minerals	
Muscovite:	
Biotite:	
Tourmaline:	
Sphene:	
Zircon:	
Total:	0

Category	Counts
Other	
Unknown RF:	
Fe-O	

Category	Counts
Porosity	
Intergranular:	59
Intragranular Plagioclase:	
Intragranular Microcline:	
Intragranular Potassium Feldspar	1
Intragranular Unknown Feldspar:	1
Oversized:	12
Intragranular VRF	
Unknown VRF:	3
Intragranular MRF	
Intragranular SRF	
Siltstone RF:	1
Intragranular Unknown RF:	
Intragranular Unknown Grain:	
Total:	77

Category	Counts
Cement/Overgrowth	
Quartz:	
Kaolinite:	
Fe-Oxide:	
Calcite	
intergranular:	
oversized:	
Total:	0

Category	Counts
Grain Replacement	
Kaolinite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Calcite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	

Total:		0
Matrix		
Clay Cutans:		67
Pore Filling:		16
Total:		83

^a Rock Fragment

Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Total:	0

Sample Name: GM-C-051408-8
Sample Type: Outcrop

Sub-unit: Upper Wilcox
Total Points Counted: 348

Category	Counts
Quartz	
Mono Crystalline:	160
Poly Crystalline:	14
Volcanic:	1
Sedimentary:	
Total:	175

Feldspar	
Plagioclase:	
Orthoclase:	1
Microcline:	
Total	1

Sedimentary Rock Fragment (SRF)	
Argillaceous RF ^a :	
Chert:	7
Siltstone RF:	
Sandstone RF:	
Argillaceous Chert:	
Unknown SRF:	
Local Siltstone RF:	9
Local Argillaceous RF:	2
Total:	18

Metamorphic Rock Fragment (MRF)	
Quartzofeldspathic:	
Quartz-Rich	
foliated:	
polygonal:	
Mica-Rich	
foliated:	
polygonal:	
Unknown MRF:	
Total:	0

Volcanic Rock Fragment (VRF)	
Microlitic:	
Lathwork:	
Felsitic:	
Altered VRF:	
Unknown VRF:	
Total:	0

Accessory Minerals	
Muscovite:	
Biotite:	
Tourmaline:	
Sphene:	
Zircon:	
Total:	0

Other

Category	Counts
Porosity	
Intergranular:	36
Intragranular Plagioclase:	
Intragranular Microcline:	
Intragranular Potassium Feldspar:	
Intragranular Unknown Feldspar:	
Oversized:	8
Intragrannular VRF	
Intragrannular MRF	
Intragrannular SRF	
Intragranular Unknown RF:	
Intragranular Unknown Grain:	
Total:	44

Cement/Overgrowth	
Quartz:	
Kaolinite:	
Fe-Oxide:	
Calcite	
	intergranular:
	oversized:
Total:	0

Grain Replacement	
Kaolinite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Calcite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	

Unknown RF:	
Total:	0

Matrix	
Clay Cutans:	31
Pore Filling:	79
Total:	110

^a Rock Fragment

Fe-O	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Total:	0

Sample Name: GM-C-051408-9
Sample Type: Outcrop

Sub-unit: Upper Wilcox
Total Points Counted: 360

Category	Counts
Quartz	
Mono Crystalline:	163
Poly Crystalline:	16
Volcanic:	16
Sedimentary:	3
Total:	198

Feldspar	
Plagioclase:	1
Orthoclase:	8
Microcline:	4
Total	13

Sedimentary Rock Fragment (SRF)	
Argillaceous RF ^a :	2
Chert:	7
Siltstone RF:	1
Sandstone RF:	
Argillaceous Chert:	
Unknown SRF:	
Total:	10

Metamorphic Rock Fragment (MRF)	
Quartzofeldspathic:	
Quartz-Rich	
foliated:	1
polygonal:	
Mica-Rich	
foliated:	
polygonal:	
Unknown MRF:	
Total:	1

Volcanic Rock Fragment (VRF)	
Microlitic:	
Lathwork:	
Felsitic:	1
Altered VRF:	
Unknown VRF:	
Total:	1

Accessory Minerals	
Muscovite:	1
Biotite:	
Tourmaline:	
Sphene:	
Zircon:	

Category	Counts
Porosity	
Intergranular:	9
Intragranular Plagioclase:	1
Intragranular Microcline:	1
Intragranular Potassium Feldspar:	
Intragranular Unknown Feldspar:	
Oversized:	
Intragrannular VRF	
Intragrannular MRF	
Intragrannular SRF	
Intragranular Unknown RF:	
Intragranular Unknown Grain:	
Total:	11

Cement/Overgrowth	
Quartz:	
Kaolinite:	2
Fe-Oxide:	
Calcite	
intergranular:	123
oversized:	
Total:	125

Grain Replacement	
Kaolinite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Calcite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	

Total:	1
--------	---

Other

Unknown RF:	
Total:	0

Matrix

Clay Cutans:	
Pore Filling:	
Total:	0

^a Rock Fragment

MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Fe-O	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Total:	0

Sample Name: GM-C-051408-10
Sample Type: OutcropSub-unit: Upper Wilcox
Total Points Counted: 350

Category	Counts
Quartz	
Mono Crystalline:	94
Poly Crystalline:	13
Volcanic:	11
Sedimentary:	2
Total:	120

Category	Counts
Feldspar	
Plagioclase:	
Orthoclase:	19
Microcline:	4
Total	23

Category	Counts
Sedimentary Rock Fragment (SRF)	
Argillaceous RF ^a :	
Chert:	8
Siltstone RF:	1
Sandstone RF:	
Argillaceous Chert:	5
Unknown SRF:	
Total:	14

Category	Counts
Metamorphic Rock Fragment (MRF)	
Quartzofeldspathic:	
Quartz-Rich	
foliated:	1
polygonal:	
Mica-Rich	
foliated:	
polygonal:	
Unknown MRF:	
Total:	1

Category	Counts
Volcanic Rock Fragment (VRF)	
Microlitic:	
Lathwork:	
Felsitic:	5
Altered VRF:	
Unknown VRF:	
Total:	5

Category	Counts
Accessory Minerals	
Muscovite:	
Biotite:	

Category	Counts
Porosity	
Intergranular:	38
Intragranular Plagioclase:	
Intragranular Microcline:	1
Intragranular Potassium Feldspar:	
Intragranular Unknown Feldspar:	
Oversized:	2
Intragranular VRF	
Unknown VRF:	1
Intragranular MRF	
Quartz-Rich, Foliated:	2
Intragranular SRF	
Chert:	4
Intragranular Unknown RF:	
Intragranular Unknown Grain:	
Total:	48

Category	Counts
Cement/Ovgrowth	
Quartz:	
Kaolinite:	3
Fe-Oxide:	
Calcite	
intergranular:	122
oversized:	3
Total:	128

Category	Counts
Grain Replacement	
Kaolinite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Calcite	
Orthoclase:	4
Microcline:	
Plagioclase:	

Tourmaline:	
Sphene:	
Zircon:	
Total:	0

Other	
Unknown RF:	3
Unknown Highly Dissolved Grain:	4
Total:	7

Matrix	
Clay Cutans:	
Pore Filling:	
Total:	0

Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Fe-O	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Total:	4

^a Rock Fragment

Sample Name: GM-C-051408-11
 Sample Type: Outcrop

Sub-unit: Upper Wilcox
 Total Points Counted: 351

Category	Counts
Quartz	
Mono Crystalline:	154
Poly Crystalline:	23
Volcanic:	8
Sedimentary:	2
Total:	187

Category	Counts
Feldspar	
Plagioclase:	2
Orthoclase:	7
Microcline:	1
Total	10

Category	Counts
Sedimentary Rock Fragment (SRF)	
Argillaceous RF ^a :	3
Chert:	3
Siltstone RF:	10
Sandstone RF:	
Argillaceous Chert:	3
Unknown SRF:	
Total:	19

Category	Counts
Metamorphic Rock Fragment (MRF)	
Quartzofeldspathic:	
Quartz-Rich	
foliated:	1
polygonal:	1
Mica-Rich	
foliated:	
polygonal:	
Unknown MRF:	
Total:	2

Category	Counts
Volcanic Rock Fragment (VRF)	
Microlitic:	
Lathwork:	
Felsitic:	
Altered VRF:	
Unknown VRF:	2
Total:	2

Category	Counts
Cement/Overgrowth	
Quartz:	
Kaolinite:	
Fe-Oxide:	
Calcite	
intergranular:	104
oversized:	8
Total:	112

Category	Counts
Grain Replacement	
Kaolinite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	

Accessory Minerals	
Muscovite:	
Biotite:	
Tourmaline:	
Sphene:	
Zircon:	
Total:	0

Other	
Unknown RF:	
Total:	0

Matrix	
Clay Cutans:	
Pore Filling:	
Total:	0

^a Rock Fragment

Calcite	
Orthoclase:	2
Microcline:	1
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Fe-O	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Total:	3

Sample Name: GM-C-051408-12
 Sample Type: Outcrop

Sub-unit: Upper Wilcox
 Total Points Counted: 350

Category	Counts
Quartz	
Mono Crystalline:	134
Poly Crystalline:	17
Volcanic:	5
Sedimentary:	5
Total:	161

Category	Counts
Feldspar	
Plagioclase:	
Orthoclase:	11
Microcline:	
Total	11

Sedimentary Rock Fragment (SRF)	
Argillaceous RF ^a :	1
Chert:	11
Siltstone RF:	
Sandstone RF:	
Argillaceous Chert:	7
Unknown SRF:	
Total:	19

Metamorphic Rock Fragment (MRF)	
Quartzofeldspathic:	
Quartz-Rich	
foliated:	2
polygonal:	3
Mica-Rich	
foliated:	
polygonal:	1
Unknown MRF:	
Total:	6

Volcanic Rock Fragment (VRF)	
Microlitic:	
Lathwork:	
Felsitic:	
Altered VRF:	1
Unknown VRF:	

Cement/Overgrowth	
Quartz:	
Kaolinite:	3
Fe-Oxide:	
Calcite	
intergranular:	27
oversized:	
Total:	30

Grain Replacement	
Kaolinite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	

Total:	1

Accessory Minerals

Muscovite:	
Biotite:	
Tourmaline:	
Sphene:	
Zircon:	
Total:	0

Other

Unknown RF:	
Total:	0

Matrix

Clay Cutans:	
Pore Filling:	
Total:	0

Mica:	1
Unknown RF:	
Unknown Grain:	2
Calcite	
Orthoclase:	1
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	1
VRF:	
MRF:	1
Mica:	
Unknown RF:	1
Unknown Grain:	6
Fe-O	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Total:	13

^a Rock FragmentSample Name: GM-C-051408-13
Sample Type: OutcropSub-unit: Upper Wilcox
Total Points Counted: 350

Category	Counts	Category	Counts																																																												
Quartz																																																															
Mono Crystalline:	160	Intergranular:	65																																																												
Poly Crystalline:	13	Intragranular Plagioclase:																																																													
Volcanic:	15	Intragranular Microcline:																																																													
Sedimentary:	4	Intragranular Potassium Feldspar:	1																																																												
Total:	192	Intragranular Unknown Feldspar:																																																													
Feldspar																																																															
Plagioclase:		Oversized:	12																																																												
Orthoclase:	5	Intragranular VRF:																																																													
Microcline:	1	Unknown VRF:	1																																																												
		Intragranular MRF:																																																													
Total:	6																																																														
Sedimentary Rock Fragment (SRF)																																																															
Argillaceous RF ^a :		Intragranular SRF:																																																													
Chert:	9	Chert:	2																																																												
Siltstone RF:	2																																																														
Sandstone RF:																																																															
Argillaceous Chert:	4																																																														
Unknown SRF:																																																															
Total:	15	Total:	81																																																												
Metamorphic Rock Fragment (MRF)																																																															
Quartzofeldspathic:		Cement/Ovgrowth																																																													
Quartz-Rich		foliated:		Quartz:				Kaolinite:	5	foliated:		Fe-Oxide:				Calcite		polygonal:		intergranular:		Mica-Rich		oversized:		foliated:		Total:	5			polygonal:		Unknown MRF:		Total:	0	Volcanic Rock Fragment (VRF)				Microlitic:		Grain Replacement		Lathwork:		Kaolinite		Orthoclase:				Microcline:				Plagioclase:				Unknown Feldspar:	
foliated:		Quartz:																																																													
		Kaolinite:	5																																																												
foliated:		Fe-Oxide:																																																													
		Calcite																																																													
polygonal:		intergranular:																																																													
Mica-Rich		oversized:																																																													
foliated:		Total:	5																																																												
polygonal:																																																															
Unknown MRF:																																																															
Total:	0																																																														
Volcanic Rock Fragment (VRF)																																																															
Microlitic:		Grain Replacement																																																													
Lathwork:		Kaolinite		Orthoclase:				Microcline:				Plagioclase:				Unknown Feldspar:																																															
Kaolinite		Orthoclase:																																																													
		Microcline:																																																													
		Plagioclase:																																																													
		Unknown Feldspar:																																																													

Felsitic:	
Altered VRF:	
Unknown VRF:	
Total:	0

Accessory Minerals	
Muscovite:	
Biotite:	
Tourmaline:	
Sphene:	
Zircon:	
Total:	0

Other	
Unknown RF:	
Total:	0

Matrix	
Clay Cutans:	30
Pore Filling:	21
Total:	51

^a Rock Fragment

SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Calcite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Fe-O	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Total:	0

Sample Name: GM-C-051408-14
 Sample Type: Outcrop

Sub-unit: Upper Wilcox
 Total Points Counted: 350

Category	Counts
Quartz	
Mono Crystalline:	130
Poly Crystalline:	10
Volcanic:	10
Sedimentary:	6
Total:	156

Feldspar	
Plagioclase:	
Orthoclase:	21
Microcline:	2
Total	23

Sedimentary Rock Fragment (SRF)	
Argillaceous RF ^a :	3
Chert:	5
Siltstone RF:	
Sandstone RF:	
Argillaceous Chert:	2
Unknown SRF:	
Total:	10

Metamorphic Rock Fragment (MRF)	
Quartzofeldspathic:	
Quartz-Rich	
foliated:	1
polygonal:	4
Mica-Rich	
foliated:	
polygonal:	1
Unknown MRF:	
Total:	6

Category	Counts
Porosity	
Intergranular:	2
Intragranular Plagioclase:	
Intragranular Microcline:	
Intragranular Potassium Feldspar:	
Intragranular Unknown Feldspar:	
Oversized:	
Intragranular VRF	
Intragranular MRF	
Intragranular SRF	
Intragranular Unknown RF:	
Intragranular Unknown Grain:	
Total:	2

Cement/Overgrowth	
Quartz:	
Kaolinite:	
Fe-Oxide:	1
Calcite	
intergranular:	127
oversized:	20
Total:	148

Grain Replacement	
Kaolinite	
Orthoclase:	

Volcanic Rock Fragment (VRF)	
Microlitic:	
Lathwork:	
Felsitic:	3
Altered VRF:	
Unknown VRF:	
Total:	3

Accessory Minerals	
Muscovite:	
Biotite:	
Tourmaline:	
Sphene:	
Zircon:	
Total:	0

Other	
Unknown RF:	
Total:	0

Matrix	
Clay Cutans:	
Pore Filling:	
Total:	0

Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	2
Calcite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Fe-O	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Total:	2

^a Rock Fragment

Sample Name: GM-C-051508-1
 Sample Type: Outcrop

Sub-unit: Upper Wilcox
 Total Points Counted: 350

Category	Counts
Quartz	
Mono Crystalline:	150
Poly Crystalline:	9
Volcanic:	6
Sedimentary:	3
Total:	168

Category	Counts
Feldspar	
Plagioclase:	
Orthoclase:	19
Microcline:	1
Total:	20

Sedimentary Rock Fragment (SRF)	
Argillaceous RF ^a :	
Chert:	5
Siltstone RF:	1
Sandstone RF:	
Argillaceous Chert:	5
Unknown SRF:	
Total:	11

Metamorphic Rock Fragment (MRF)	
Quartzofeldspathic:	
Quartz-Rich	
foliated:	2
polygonal:	4
Mica-Rich	
foliated:	1
polygonal:	
Unknown MRF:	

Category	Counts
Porosity	
Intergranular:	80
Intragranular Plagioclase:	
Intragranular Microcline:	1
Intragranular Potassium Feldspar	4
Intragranular Unknown Feldspar:	
Oversized:	4
Intragranular VRF	
Altered VRF:	2
Intragranular MRF	
Quartz-Rich, Polygonal:	1
Intragranular SRF	
Chert:	1
Intragranular Unknown RF:	
3	
Intragranular Unknown Grain:	
Total:	
	96

Cement/Ovgrowth	
Quartz:	
Kaolinte:	2
Fe-Oxide:	7
Calcite	
intergranular:	
oversized:	
Total:	9

Total:	7

Volcanic Rock Fragment (VRF)

Microlitic:	
Lathwork:	
Felsitic:	1
Altered VRF:	5
Unknown VRF:	
Total:	6

Accessory Minerals

Muscovite:	
Biotite:	
Tourmaline:	
Sphene:	
Zircon:	
Total:	0

Other

Unknown RF:	1
Unknown Highly Dissolved Grain:	1
Total:	2

Matrix

Clay Cutans:	
Pore Filling:	31
Total:	31

^a Rock Fragment

Grain Replacement	
Kaolinite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Calcite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Fe-O	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Total:	0

Sample Name: GM-C-051508-2
 Sample Type: Outcrop

Sub-unit: Upper Wilcox
 Total Points Counted: 349

Category	Counts	Category	Counts
Quartz			
Mono Crystalline:	105	Porosity	
Poly Crystalline:	19	Intergranular:	1
Volcanic:	6	Intragranular Plagioclase:	
Sedimentary:	3	Intragranular Microcline:	
Total:	133	Intragranular Potassium Feldspar:	
Feldspar			
Plagioclase:		Intragranular Unknown Feldspar:	1
Orthoclase:	11	Oversized:	
Microcline:	1	Intragranular VRF	
Total:	12		
Sedimentary Rock Fragment (SRF)			
Argillaceous RF ^a :	2		
Chert:	12		
Siltstone RF:	2		
Sandstone RF:			
Argillaceous Chert:	15		
Unknown SRF:	1		
Total:	32		
Metamorphic Rock Fragment (MRF)			
Quartzofeldspathic:		Cement/Ovgrowth	
Quartz-Rich		Quartz:	
foliated:		Kaolinite:	
polygonal:		Fe-Oxide:	
		Calcite	
		intergranular:	154

Mica-Rich	
foliated:	
polygonal:	
Unknown MRF:	
Total:	0

Volcanic Rock Fragment (VRF)	
Microlitic:	
Lathwork:	
Felsitic:	2
Altered VRF:	
Unknown VRF:	
Total:	2

Accessory Minerals	
Muscovite:	
Biotite:	
Tourmaline:	
Sphene:	
Zircon:	
Total:	0

Other	
Unknown RF:	
Total:	0

Matrix	
Clay Cutans:	
Pore Filling:	
Total:	0

oversized:	7
Total:	161

Grain Replacement

Kaolinite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Calcite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	2
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	2
Fe-O	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Total:	4

^a Rock Fragment

Sample Name: GM-C-051508-3
 Sample Type: Outcrop

Sub-unit: Upper Wilcox
 Total Points Counted: 350

Category	Counts
Quartz	
Mono Crystalline:	104
Poly Crystalline:	18
Volcanic:	17
Sedimentary:	2
Total:	141

Category	Counts
Feldspar	
Plagioclase:	
Orthoclase:	9
Microcline:	
Total:	9

Category	Counts
Sedimentary Rock Fragment (SRF)	
Argillaceous RF ^a :	1
Chert:	41
Siltstone RF:	3
Sandstone RF:	1
Argillaceous Chert:	10
Unknown SRF:	
Evaporitic Quartz with Chalcedony Overgrowth:	1
Total:	57

Metamorphic Rock Fragment (MRF)

Category	Counts
Porosity	
Intergranular:	114
Intragranular Plagioclase:	
Intragranular Microcline:	
Intragranular Potassium Feldspar:	4
Intragranular Unknown Feldspar:	
Oversized:	3
Intragranular VRF	
Lathwork:	1
Intragranular MRF	
Intragranular SRF	
Chert:	1
Siltstone RF:	1
Intragranular Unknown RF:	
Intragranular Unknown Grain:	
Total:	124

Category	Counts
Quartz:	
Kaolinite:	3
Fe-Oxide:	

Quartzofeldspathic:	
Quartz-Rich	
foliated:	1
polygonal:	1
Mica-Rich	
foliated:	
polygonal:	
Unknown MRF:	
Total:	2

Volcanic Rock Fragment (VRF)	
Microlitic:	
Lathwork:	
Felsitic:	3
Altered VRF:	5
Unknown VRF:	
Total:	8

Accessory Minerals	
Muscovite:	
Biotite:	
Tourmaline:	
Sphene:	
Zircon:	
Total:	0

Other	
Unknown RF:	
Unknown Highly Dissolved Grain:	6
Total:	6

Matrix	
Clay Cutans:	
Pore Filling:	
Total:	0

Calcite	
intergranular:	
oversized:	
Total:	3

Grain Replacement	
Kaolinite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Calcite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Fe-O	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Total:	0

^a Rock Fragment

Sample Name: GM-C-051608-1
 Sample Type: Outcrop

Sub-unit: Upper Wilcox
 Total Points Counted: 348

Category	Counts	Category	Counts
Quartz			
Mono Crystalline:	155	Porosity	
Poly Crystalline:	25	Intergranular:	
Volcanic:	19	Intragranular Plagioclase:	
Sedimentary:	3	Intragranular Microcline:	
Total:	202	Intragranular Potassium Feldspar:	
Feldspar			
Plagioclase:		Intragranular Unknown Feldspar:	
Orthoclase:	4	Oversized:	1
Microcline:	2	Intragranular VRF	
Total:	6	Intragranular MRF	
Sedimentary Rock Fragment (SRF)			
Argillaceous RF ^a :		Intragranular SRF	
Chert:	1		
Siltstone RF:	2		
Sandstone RF:			
Argillaceous Chert:	2		
Unknown SRF:			
Total:			1

Total:	5

Metamorphic Rock Fragment (MRF)

Quartzofeldspathic:	
Quartz-Rich	
foliated:	
polygonal:	
Mica-Rich	
foliated:	
polygonal:	
Unknown MRF:	
Total:	0

Volcanic Rock Fragment (VRF)

Microlitic:	
Lathwork:	
Felsitic:	
Altered VRF:	
Unknown VRF:	
Total:	0

Accessory Minerals

Muscovite:	
Biotite:	
Tourmaline:	
Sphene:	
Zircon:	
Total:	0

Other

Unknown RF:	
Total:	0

Matrix

Clay Cutans:	
Pore Filling:	
Total:	0

^a Rock Fragment

Cement/Overgrowth	
Quartz:	
Kaolinite:	1
Fe-Oxide:	1
Oversized Fe-O:	3
Calcite	
intergranular:	124
oversized:	4
Total:	133

Grain Replacement	
Kaolinite:	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Calcite	
Orthoclase:	1
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	

Fe-O	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Total:	1

Sample Name: GM-C-051608-2
 Sample Type: Outcrop

Sub-unit: Upper Wilcox
 Total Points Counted: 362

Category	Counts
Quartz	
Mono Crystalline:	148
Poly Crystalline:	21
Volcanic:	3
Sedimentary:	8
Total:	180

Category	Counts
Feldspar	
Plagioclase:	2
Orthoclase:	7
Microcline:	1
Total:	10

Category	Counts
Sedimentary Rock Fragment (SRF)	
Argillaceous RF ^a :	1
Chert:	4
Siltstone RF:	1

Category	Counts
Porosity	
Intergranular:	
Intragranular Plagioclase:	
Intragranular Microcline:	
Intragranular Potassium Feldspar:	
Intragranular Unknown Feldspar:	
Oversized:	
Intragrannular VRF	
Intragrannular MRF	
Unknown MRF:	1
Intragrannular SRF	
Intragrannular Unknown RF:	

Sandstone RF:	
Argillaceous Chert:	3
Unknown SRF:	
Total:	9

Intragranular Unknown Grain:	
Total:	1

Cement/Overgrowth

Quartz:	
Kaolinite:	
Fe-Oxide:	
Calcite	
intergranular:	131
oversized:	28
Total:	159

Metamorphic Rock Fragment (MRF)

Quartzofeldspathic:	
Quartz-Rich	
foliated:	1
polygonal:	
Mica-Rich	
foliated:	
polygonal:	
Unknown MRF:	
Total:	1

Grain Replacement

Kaolinite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Calcite	
Orthoclase:	2
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Fe-O	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Total:	2

Accessory Minerals

Muscovite:	
Biotite:	
Tourmaline:	
Sphene:	
Zircon:	
Total:	0

Other

Unknown RF:	
Total:	0

Matrix

Clay Cutans:	
Pore Filling:	
Total:	0

^a Rock Fragment

Sample Name: GM-C-051608-3
 Sample Type: Outcrop

Sub-unit: Upper Wilcox
 Total Points Counted: 350

Category	Counts	Category	Counts
Quartz		Porosity	
Mono Crystalline:	140	Intergranular:	78
Poly Crystalline:	17	Intragranular Plagioclase:	2
Volcanic:	2	Intragranular Microcline:	
Sedimentary:	2	Intragranular Potassium Feldspar:	1
Total:	161	Intragranular Unknown Feldspar:	
Feldspar		Oversized:	4
Plagioclase:	3	Intragranular VRF	
Orthoclase:	11	Altered VRF:	1
Microcline:		Intragranular MRF	
Unknown Feldspar:	1	Quartzofeldspathic:	2
Total:	15	Quartz-Rich, Foliated	2
Sedimentary Rock Fragment (SRF)		Intragranular SRF	
		Chert:	2

Argillaceous RF ^a :	
Chert:	13
Siltstone RF:	1
Sandstone RF:	
Argillaceous Chert:	6
Unknown SRF:	
Total:	20

Intragranular Unknown RF:	2
Intragranular Unknown Grain:	
Total:	94

Metamorphic Rock Fragment (MRF)	
Quartzofeldspathic:	
Quartz-Rich	
foliated:	3
polygonal:	3
Mica-Rich	
foliated:	
polygonal:	
Unknown MRF:	
Total:	6

Cement/Overgrowth	
Quartz:	
Kaolinite:	1
Fe-Oxide:	
Calcite	
intergranular:	
oversized:	
Total:	1

Volcanic Rock Fragment (VRF)	
Microlitic:	
Lathwork:	
Felsitic:	1
Altered VRF:	2
Unknown VRF:	1
Total:	4

Grain Replacement	
Kaolinite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	1
Unknown RF:	1
Unknown Grain:	2
Calcite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	

Accessory Minerals	
Muscovite:	
Biotite:	
Tourmaline:	
Sphene:	
Zircon:	
Total:	0

Other	
Unknown RF:	
	Unknown Grain:
Total:	0

Matrix	
Clay Cutans:	
Pore Filling:	45
Total:	45

^a Rock Fragment

Sample Name: GM-C-051608-4
 Sample Type: Outcrop

Sub-unit: Upper Wilcox
 Total Points Counted: 349

Category	Counts	Category	Counts
Quartz			
Mono Crystalline:	176	Porosity	
Poly Crystalline:	17	Intergranular:	97
Volcanic:	2	Intragranular Plagioclase:	
Sedimentary:	6	Intragranular Microcline:	
Total:	201	Intragranular Potassium Feldspar:	1
Feldspar			
Plagioclase:	1	Intragranular Unknown Feldspar:	2
Orthoclase:	4	Oversized:	8
Microcline:	3	Intragranular VRF	
		Altered VRF:	1
		Intragranular MRF	
		Quartz-Rich, Polygonal:	1

Total	8
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Sedimentary Rock Fragment (SRF)

Argillaceous RF ^a :	
Chert:	2
Siltstone RF:	
Sandstone RF:	
Argillaceous Chert:	4
Unknown SRF:	
Total:	6

Intragranular SRF	
Chert:	2
Intragranular Unknown RF:	2
Intragranular Unknown Grain:	
Total:	114

Cement/Overgrowth

Quartz:	
Kaolinite:	3
Fe-Oxide:	2
Calcite	
intergranular:	
oversized:	
Total:	5

Grain Replacement

Kaolinite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	1
Unknown RF:	
Unknown Grain:	2
Calcite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	

Accessory Minerals

Muscovite:	
Biotite:	
Tourmaline:	
Sphene:	
Zircon:	
Total:	0

Other

Unknown RF:	
Total:	0

Fe-O	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	3
Total:	6

^a Rock Fragment

Sample Name: GM-C-051608-5
 Sample Type: Outcrop

Sub-unit: Upper Wilcox
 Total Points Counted: 350

Category	Counts	Category	Counts
Quartz			
Mono Crystalline:	179	Porosity	
Poly Crystalline:	23	Intergranular:	96
Volcanic:	2	Intragranular Plagioclase:	
Sedimentary:	3	Intragranular Microcline:	1
Total:	207	Intragranular Potassium Feldspar:	
		Intragranular Unknown Feldspar:	1
Feldspar			
Plagioclase:		Oversized:	
Orthoclase:	3	Intragranular VRF	

Microcline:	7
Total:	10

Sedimentary Rock Fragment (SRF)

Argillaceous RF ^a :	
Chert:	7
Siltstone RF:	2
Sandstone RF:	
Argillaceous Chert:	1
Unknown SRF:	
Lengthslow Chalcedony:	1
Total:	11

Metamorphic Rock Fragment (MRF)

Quartzofeldspathic:	
Quartz-Rich	
foliated:	
polygonal:	6
Mica-Rich	
foliated:	
polygonal:	
Unknown MRF:	
Total:	6

Volcanic Rock Fragment (VRF)

Microlitic:	
Lathwork:	
Felsitic:	2
Altered VRF:	2
Unknown VRF:	2
Total:	6

Accessory Minerals

Muscovite:	
Biotite:	
Tourmaline:	
Sphene:	
Zircon:	
Total:	0

Other

Unknown RF:	
Unknown Highly Dissolved Grain:	6
Total:	6

Matrix

Clay Cutans:	
Pore Filling:	
Total:	0

^a Rock Fragment

Intragranular MRF	
Total:	10

Intragranular SRF	
Chert:	1
Unknown SRF:	1
Intragranular Unknown RF:	1
Intragranular Unknown Grain:	
Total:	101

Cement/Overgrowth

Quartz:	
Kaolinte:	3
Fe-Oxide:	
Calcite	
intergranular:	
oversized:	
Total:	3

Grain Replacement

Kaolinite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Calcite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Fe-O	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Total:	0

Sample Name: Bailey1C-10474
 Sample Type: Core

Sub-unit: Upper Wilcox
 Total Points Counted: 345

Category	Counts	Category	Counts
Quartz		Porosity	
Mono Crystalline:	215	Intergranular:	33
Poly Crystalline:	6	Intragranular Plagioclase:	1
Volcanic:		Intragranular Microcline:	
Sedimentary:		Intragranular Potassium Feldspar:	1
		Intragranular Unknown Feldspar:	6
Total:	221	Oversized:	19

Feldspar	
Plagioclase:	14
Orthoclase:	2
Microcline:	
Total	16

Sedimentary Rock Fragment (SRF)

Sedimentary Rock Fragment (SRF)	
Argillaceous RF ^a :	
Chert:	3
Siltstone RF:	
Sandstone RF:	
Argillaceous Chert:	
Unknown SRF:	
Total:	3

Metamorphic Rock Fragment (MRF)

Metamorphic Rock Fragment (MRF)	
Quartzofeldspathic:	
Quartz-Rich	
foliated:	5
polygonal:	3
Mica-Rich	
foliated:	1
polygonal:	
Unknown MRF:	
Total:	9

Volcanic Rock Fragment (VRF)

Volcanic Rock Fragment (VRF)	
Microlitic:	
Lathwork:	
Felsitic:	
Altered VRF:	
Unknown VRF:	
Total:	0

Accessory Minerals

Accessory Minerals	
Muscovite:	1
Biotite:	
Tourmaline:	1
Sphene:	
Zircon:	
Total:	2

Other

Other	
Unknown RF:	
Total:	0

Matrix

Matrix	
Clay Cutans:	
Pore Filling:	
Total:	0

^a Rock Fragment

Intragranular VRF	
Felsitic:	1
Intragranular MRF	
Quartzofeldspathic:	1
Intragranular SRF	

Cement/Ovgrowth	
Quartz:	6
Kaolinite:	5
Fe-Oxide:	2
Calcite	
intergranular:	
oversized:	
Total:	13

Grain Replacement	
Kaolinite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	7
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Calcite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	9
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Fe-O	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Total:	16

Sample Name: Bailey1C-10491
 Sample Type: Core

Sub-unit: Upper Wilcox
 Total Points Counted: 350

Category	Counts	Category	Counts
Quartz		Porosity	
Mono Crystalline:	214	Intergranular:	21
Poly Crystalline:	9	Intragranular Plagioclase:	
Volcanic:	3	Intragranular Microcline:	

Sedimentary:	
Total:	226

Feldspar

Plagioclase:	6
Orthoclase:	2
Microcline:	
Unknown Feldspar	1
Total	9

Sedimentary Rock Fragment (SRF)

Argillaceous RF ^a :	3
Chert:	5
Siltstone RF:	
Sandstone RF:	
Argillaceous Chert:	2
Unknown SRF:	
Total:	10

Metamorphic Rock Fragment (MRF)

Quartzofeldspathic:	
Quartz-Rich	
foliated:	
polygonal:	2
Mica-Rich	
foliated:	
polygonal:	
Unknown MRF:	1
Total:	3

Volcanic Rock Fragment (VRF)

Microlitic:	
Lathwork:	1
Felsitic:	4
Altered VRF:	1
Unknown VRF:	
Total:	6

Accessory Minerals

Muscovite:	1
Biotite:	
Tourmaline:	
Sphene:	
Zircon:	1
Total:	2

Other

Unknown RF:	1
Total:	1

Matrix

Clay Cutans:	
Pore Filling:	9
Total:	9

^a Rock Fragment

Intragranular Potassium Feldspar:	
Intragranular Unknown Feldspar:	1
Oversized:	4
Intragranular VRF:	

Intragranular MRF:	
Intragranular SRF:	
Chert:	1

Intragranular Unknown RF:	
Intragranular Unknown Grain:	3
Total:	30

Cement/Overgrowth

Quartz:	25
Kaolinite:	2
Fe-Oxide:	1
Calcite	
intergranular:	17
oversized:	5
Total:	50

Grain Replacement

Kaolinite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Calcite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	1
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Fe-O	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Total:	4

Sample Name: Urban1-13896
 Sample Type: Core

Sub-unit: Upper Wilcox
 Total Points Counted: 344

Category	Counts	Category	Counts
Quartz		Porosity	

Mono Crystalline:	206
Poly Crystalline:	7
Volcanic:	1
Sedimentary:	
Total:	214

Feldspar

Plagioclase:	8
Orthoclase:	2
Microcline:	
Total:	10

Sedimentary Rock Fragment (SRF)

Argillaceous RF ^a :	
Chert:	2
Siltstone RF:	
Sandstone RF:	
Argillaceous Chert:	
Unknown SRF:	
Total:	2

Metamorphic Rock Fragment (MRF)

Quartzofeldspathic:	
Quartz-Rich	
foliated:	1
polygonal:	4
Mica-Rich	
foliated:	2
polygonal:	
Unknown MRF:	
Total:	7

Volcanic Rock Fragment (VRF)

Microlitic:	
Lathwork:	
Felsitic:	1
Altered VRF:	
Unknown VRF:	
Total:	1

Accessory Minerals

Muscovite:	2
Biotite:	1
Tourmaline:	
Sphene:	
Zircon:	
Total:	3

Other

Unknown RF:	1
Total:	1

Matrix

Clay Cutans:	
Pore Filling:	6
Total:	6

^a Rock Fragment

Intergranular:	52
Intragranular Plagioclase:	
Intragranular Microcline:	
Intragranular Potassium Feldspar:	1
Intragranular Unknown Feldspar:	7
Oversized:	3
Intragrannular VRF:	

Intragrannular MRF:	
Intragrannular SRF:	
Intragrannular Unknown RF:	1

Intragranular Unknown Grain:	2
Total:	66

Cement/Overgrowth

Quartz:	7
Kaolinite:	
Fe-Oxide:	5
Calcite	
intergranular:	
oversized:	7
Total:	19

Grain Replacement

Kaolinite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Calcite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	10
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Fe-O	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	5

Category	Counts	Category	Counts
Quartz			
Mono Crystalline:	184	Porosity	
Poly Crystalline:	14	Intergranular:	35
Volcanic:	5	Intragranular Plagioclase:	3
Sedimentary:		Intragranular Microcline:	
Total:	203	Intragranular Potassium Feldspar:	
Feldspar			
Plagioclase:	8	Intragranular Unknown Feldspar:	7
Orthoclase:		Oversized:	27
Microcline:		Intragranular VRF	
		Lathwork:	1
Total:	8	Intragranular MRF	
Sedimentary Rock Fragment (SRF)			
Argillaceous RF ^a :		Intragranular SRF	
Chert:	1		
Siltstone RF:			
Sandstone RF:			
Argillaceous Chert:			
Unknown SRF:			
Total:	1		
Metamorphic Rock Fragment (MRF)			
Quartzofeldspathic:		Cement/Overgrowth	
Quartz-Rich		Quartz:	13
foliated:	2	Kaolinite:	
polygonal:	4	Fe-Oxide:	1
Mica-Rich		Calcite	
foliated:	1	intergranular:	19
polygonal:		oversized:	
Unknown MRF:		Total:	33
Total:	7		
Volcanic Rock Fragment (VRF)			
Microlitic:		Grain Replacement	
Lathwork:		Kaolinite	
Felsitic:		Orthoclase:	
Altered VRF:		Microcline:	
Unknown VRF:		Plagioclase:	
		Unknown Feldspar:	
Total:	0	SRF:	
Accessory Minerals		VRF:	
Muscovite:	3	MRF:	
Biotite:	1	Mica:	
Tourmaline:		Unknown RF:	
Sphene:		Unknown Grain:	
Zircon:	1	Calcite	
Total:	5	Orthoclase:	
Other		Microcline:	
Unknown RF:		Plagioclase:	
		Unknown Feldspar:	12
		SRF:	
		VRF:	
Total:	0	MRF:	
Matrix		Mica:	
Clay Cutans:		Unknown RF:	
Pore Filling:		Unknown Grain:	
Total:	0	Fe-O	
^a Rock Fragment		Orthoclase:	
		Microcline:	
		Plagioclase:	
		Unknown Feldspar:	
		SRF:	
		VRF:	
		MRF:	
		Mica:	
		Unknown RF:	
		Unknown Grain:	
		Total:	13

Sample Name: GM-W-051408-1
 Sample Type: Outcrop

Sub-unit: Lower Wilcox
 Total Points Counted: 351

Category	Counts	Category	Counts
Quartz		Porosity	
Mono Crystalline:	123	Intergranular:	84
Poly Crystalline:	14	Intragranular Plagioclase:	
Volcanic:	16	Intragranular Microcline:	1
Sedimentary:	1	Intragranular Potassium Feldspar:	1
		Intragranular Unknown Feldspar:	1
Total:	154	Oversized:	7
Feldspar		Intragranular VRF	
Plagioclase:	1	Altered VRF:	1
Orthoclase:	9		
Microcline:	7	Intragranular MRF	
Unknown Feldspar:	1		
Total:	18		
Sedimentary Rock Fragment (SRF)		Intragranular SRF	
Argillaceous RFa:		Argillaceous Chert:	2
Chert:	6	Siltstone RF:	1
Siltstone RF:	2	Intragranular Unknown RF:	
Sandstone RF:		Intragranular Unknown Grain:	
Argillaceous Chert:	3		
Unknown SRF:		Total:	98
Evaporitic Quartz with Chalcedony Overgrowth:	1		
Total:	12	Cement/Ovgrowth	
Metamorphic Rock Fragment (MRF)		Quartz:	
Quartzofeldspathic:		Kaolinite:	
Quartz-Rich		Fe-Oxide:	
foliated:		Calcite	
polygonal:	7	intergranular:	29
Mica-Rich		oversized:	
foliated:	1	Total:	29
polygonal:	1		
Unknown MRF:		Grain Replacement	
Total:	9	Kaolinite	
Volcanic Rock Fragment (VRF)		Orthoclase:	
Microlitic:		Microcline:	
Lathwork:		Plagioclase:	
Felsitic:	2	Unknown Feldspar:	
Altered VRF:	1	SRF:	
Unknown VRF:		VRF:	
		MRF:	
		Mica:	6
Total:	3	Unknown RF:	
Accessory Minerals		Unknown Grain:	
Muscovite:		Siderite:	
Biotite:		Orthoclase:	
Tourmaline:		Microcline:	
Sphene:		Plagioclase:	
Zircon:		Unknown Feldspar:	2
Total:	0	SRF:	
Other		VRF:	
Unknown RF:		MRF:	1
Unknown Highly Dissolved Grain:	8	Mica:	
		Unknown RF:	
Total:	8	Unknown Grain:	11
Matrix		Fe-O	
Clay Cutans:		Orthoclase:	
		Microcline:	
		Plagioclase:	
		Unknown Feldspar:	
		SRF:	
		VRF:	
		MRF:	

Pore Filling:	
Total:	0

Mica:	
Unknown RF:	
Unknown Grain:	
Total:	20

^a Rock Fragment

Sample Name: GM-W-051508-2
 Sample Type: Outcrop

Sub-unit: Lower Wilcox
 Total Points Counted: 350

Category	Counts
Quartz	
Mono Crystalline:	116
Poly Crystalline:	16
Volcanic:	1
Sedimentary:	
Total:	133

Feldspar	Counts
Plagioclase:	1
Orthoclase:	10
Microcline:	2
Total	13

Sedimentary Rock Fragment (SRF)	Counts
Argillaceous RF ^a :	1
Chert:	21
Siltstone RF:	
Sandstone RF:	
Argillaceous Chert:	14
Unknown SRF:	
Total:	36

Metamorphic Rock Fragment (MRF)	Counts
Quartzofeldspathic:	2
Quartz-Rich	
foliated:	1
polygonal:	4
Mica-Rich	
foliated:	2
polygonal:	
Unknown MRF:	
Total:	9

Volcanic Rock Fragment (VRF)	Counts
Microlitic:	
Lathwork:	
Felsitic:	
Altered VRF:	6
Unknown VRF:	
Total:	6

Accessory Minerals	Counts
Muscovite:	
Biotite:	
Tourmaline:	
Sphene:	
Zircon:	
Total:	0

Other	Counts
Unknown RF:	
Total:	0

Category Counts

Porosity

Intergranular:	90
Intragranular Plagioclase:	2
Intragranular Microcline:	
Intragranular Potassium Feldspar:	
Intragranular Unknown Feldspar:	
Oversized:	3
Intragranular VRF	
Unknown VRF:	3
Altered VRF:	3
Intragranular MRF	
Intragranular SRF	
Chert:	3
Intragranular Unknown RF:	3
Intragranular Unknown Grain:	
Total:	107

Cement/Overgrowth	Counts
Quartz:	
Kaolinite:	6
Fe-Oxide:	13
Calcite	
intergranular:	
oversized:	
Total:	19

Grain Replacement

Kaolinite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	1
Unknown RF:	1
Unknown Grain:	
Calcite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	

Matrix	
Clay Cutans:	
Pore Filling:	25
Total:	25

^a Rock Fragment

Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Total:	2

Sample Name: GM-W-051508-3
Sample Type: Outcrop

Sub-unit: Lower Wilcox
Total Points Counted: 350

Category	Counts
Quartz	
Mono Crystalline:	115
Poly Crystalline:	14
Volcanic:	3
Sedimentary:	2
Total:	134

Category	Counts
Feldspar	
Plagioclase:	
Orthoclase:	15
Microcline:	4
Total	19

Category	Counts
Sedimentary Rock Fragment (SRF)	
Argillaceous RF ^a :	
Chert:	16
Siltstone RF:	
Sandstone RF:	
Argillaceous Chert:	6
Unknown SRF:	
Total:	22

Category	Counts
Metamorphic Rock Fragment (MRF)	
Quartzofeldspathic:	
Quartz-Rich	
foliated:	1
polygonal:	2
Mica-Rich	
foliated:	
polygonal:	
Unknown MRF:	
Total:	3

Category	Counts
Volcanic Rock Fragment (VRF)	
Microlitic:	
Lathwork:	
Felsitic:	
Altered VRF:	5
Unknown VRF:	
Total:	5

Category	Counts
Accessory Minerals	
Muscovite:	
Biotite:	
Tourmaline:	
Sphene:	
Zircon:	
Total:	0

Category	Counts
Other	
Unknown RF:	
Fe-O	

Category	Counts
Porosity	
Intergranular:	75
Intragranular Plagioclase:	
Intragranular Microcline:	
Intragranular Potassium Feldspar:	1
Intragranular Unknown Feldspar:	
Oversized:	13
Intragranular VRF	
Altered VRF:	3
Intragranular MRF	
Quartz-Rich, Polygonal:	1
Intragranular SRF	
Chert:	5
Argillaceous Chert:	3
Intragranular Unknown RF:	1
Intragranular Unknown Grain:	
Total:	102

Category	Counts
Cement/Overgrowth	
Quartz:	
Kaolinite:	4
Fe-Oxide:	36
Calcite	
intergranular:	
oversized:	
Total:	40

Category	Counts
Grain Replacement	
Kaolinite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	2
Unknown RF:	
Unknown Grain:	2
Calcite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	

Total:	0

Matrix

Clay Cutans:	11
Pore Filling:	8
Total:	19

^a Rock Fragment

Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	1
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	1
Total:	6

Sample Name: GM-W-051508-4
Sample Type: OutcropSub-unit: Lower Wilcox
Total Points Counted: 350

Category	Counts
Quartz	
Mono Crystalline:	140
Poly Crystalline:	7
Volcanic:	1
Sedimentary:	
Total:	148

Feldspar	Counts
Plagioclase:	1
Orthoclase:	7
Microcline:	1
Total	9

Sedimentary Rock Fragment (SRF)	Counts
Argillaceous RF ^a :	1
Chert:	13
Siltstone RF:	1
Sandstone RF:	
Argillaceous Chert:	2
Unknown SRF:	
Total:	17

Metamorphic Rock Fragment (MRF)	Counts
Quartzofeldspathic:	
Quartz-Rich	
foliated:	1
polygonal:	2
Mica-Rich	
foliated:	
polygonal:	
Unknown MRF:	
Total:	3

Volcanic Rock Fragment (VRF)	Counts
Microlitic:	
Lathwork:	
Felsitic:	1
Altered VRF:	5
Unknown VRF:	
Total:	6

Accessory Minerals	Counts
Muscovite:	
Biotite:	
Tourmaline:	
Sphene:	
Zircon:	
Total:	0

Category	Counts
Porosity	
Intergranular:	97
Intragranular Plagioclase:	
Intragranular Microcline:	
Intragranular Potassium Feldspar:	9
Intragranular Unknown Feldspar:	
Oversized:	4
Intragranular VRF	
Unknown VRF:	2
Intragranular MRF	
Quartz-Rich, Foliated:	1
Intragranular SRF	
Chert:	4
Intragranular Unknown RF:	3
Intragranular Unknown Grain:	1
Total:	121

Cement/Overgrowth	Counts
Quartz:	
Kaolinite:	2
Fe-Oxide:	4
Calcite	
intergranular:	
oversized:	
Total:	6

Grain Replacement	Counts
Kaolinite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Calcite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	

Other	
Unknown RF:	1
Total:	1

Matrix	
Clay Cutans:	
Pore Filling:	36
Total:	36

^a Rock Fragment

Unknown RF:	
Unknown Grain:	
Fe-O	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	3
Total:	3

Sample Name: GM-W-051608-1
 Sample Type: Outcrop

Sub-unit: Lower Wilcox
 Total Points Counted: 350

Category	Counts
Quartz	
Mono Crystalline:	129
Poly Crystalline:	12
Volcanic:	5
Sedimentary:	4
Total:	150

Category	Counts
Feldspar	
Plagioclase:	1
Orthoclase:	13
Microcline:	5
Total	19

Category	Counts
Sedimentary Rock Fragment (SRF)	
Argillaceous RF ^a :	1
Chert:	11
Siltstone RF:	
Sandstone RF:	
Argillaceous Chert:	7
Unknown SRF:	
Total:	19

Category	Counts
Metamorphic Rock Fragment (MRF)	
Quartzofeldspathic:	
Quartz-Rich	
foliated:	1
polygonal:	2
Mica-Rich	
foliated:	
polygonal:	
Unknown MRF:	
Total:	3

Category	Counts
Volcanic Rock Fragment (VRF)	
Microlitic:	
Lathwork:	
Felsitic:	1
Altered VRF:	5
Unknown VRF:	
Total:	6

Category	Counts
Accessory Minerals	
Muscovite:	2
Biotite:	1
Tourmaline:	
Sphene:	

Category	Counts
Porosity	
Intergranular:	67
Intragranular Plagioclase:	
Intragranular Microcline:	
Intragranular Potassium Feldspar:	4
Intragranular Unknown Feldspar:	1
Oversized:	7
Intragrannular VRF	
Altered VRF:	1
Unknown VRF:	3
Intragrannular MRF	
Mica Rich, Foliated:	1
Intragrannular SRF	
Chert:	1
Siltstone RF:	1
Intragranular Unknown RF:	1
Intragranular Unknown Grain:	6
Total:	93

Category	Counts
Cement/Overgrowth	
Quartz:	
Kaolinite:	4
Fe-Oxide:	
Calcite	
intergranular:	
oversized:	
Total:	4

Category	Counts
Grain Replacement	
Kaolinite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	1
Unknown RF:	
Unknown Grain:	1
Calcite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	

Zircon:	
Total:	3

Other

Unknown RF:	
Unknown Highly Dissolved Grain:	3
Total:	3

Matrix

Clay Cutans:	
Pore Filling:	47
Total:	47

^a Rock Fragment

VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Fe-O	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	1
Unknown RF:	
Unknown Grain:	
Total:	3

Sample Name: GM-W-051608-2
Sample Type: OutcropSub-unit: Lower Wilcox
Total Points Counted: 350

Category	Counts
Quartz	
Mono Crystalline:	113
Poly Crystalline:	25
Volcanic:	4
Sedimentary:	2
Total:	144

Category	Counts
Feldspar	
Plagioclase:	
Orthoclase:	7
Microcline:	
Total	7

Category	Counts
Sedimentary Rock Fragment (SRF)	
Argillaceous RF ^a :	
Chert:	30
Siltstone RF:	
Sandstone RF:	
Argillaceous Chert:	13
Unknown SRF:	
Total:	43

Category	Counts
Metamorphic Rock Fragment (MRF)	
Quartzofeldspathic:	
Quartz-Rich	
foliated:	
polygonal:	
Mica-Rich	
foliated:	
polygonal:	
Unknown MRF:	
Total:	0

Category	Counts
Volcanic Rock Fragment (VRF)	
Microlitic:	
Lathwork:	
Felsitic:	
Altered VRF:	2
Unknown VRF:	6
Total:	8

Accessory Minerals

Category	Counts
Porosity	
Intergranular:	89
Intragranular Plagioclase:	
Intragranular Microcline:	1
Intragranular Potassium Feldspar	2
Intragranular Unknown Feldspar:	
Oversized:	10
Intragranular VRF	
Unknown VRF:	6
Intragranular MRF	
Quartzofeldspathic:	1
Intragranular SRF	
Chert:	5
Argillaceous Chert:	2
Intragranular Unknown RF:	5
Intragranular Unknown Grain:	1
Total:	122

Category	Counts
Cement/Overgrowth	
Quartz:	
Kaolinite:	1
Fe-Oxide:	1
Calcite	
intergranular:	
oversized:	
Total:	2

Category	Counts
Grain Replacement	
Kaolinite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Calcite	
Orthoclase:	

Muscovite:	
Biotite:	
Tourmaline:	
Sphene:	
Zircon:	
Total:	0

Other

Unknown RF:	
Unknown Highly Dissolved Grain:	4
Total:	4

Matrix

Clay Cutans:	3
Pore Filling:	17
Total:	20

^a Rock Fragment

Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Fe-O	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Total:	0

Sample Name: GM-W-051608-3
 Sample Type: Outcrop

Sub-unit: Lower Wilcox
 Total Points Counted: 350

Category	Counts	Category	Counts
Quartz			
Mono Crystalline:	110	Porosity	
Poly Crystalline:	15	Intergranular:	
Volcanic:	2	Intragranular Plagioclase:	
Sedimentary:		Intragranular Microcline:	
		Intragranular Potassium Feldspar:	
Total:	127	Intragranular Unknown Feldspar:	1
Feldspar			
Plagioclase:		Oversized:	
Orthoclase:	20	Intragranular VRF	
Microcline:	4		
Total:	24		
Sedimentary Rock Fragment (SRF)			
Argillaceous RF ^a :		Intragranular SRF	
Chert:	7		
Siltstone RF:			
Sandstone RF:			
Argillaceous Chert:	1		
Unknown SRF:			
Total:	8		
Metamorphic Rock Fragment (MRF)			
Quartzofeldspathic:		Cement/Overgrowth	
Quartz-Rich		Quartz:	
foliated:	1	Kaolinite:	
polygonal:	3	Fe-Oxide:	27
Mica-Rich		Calcite	
foliated:	1	intergranular:	136
polygonal:		oversized:	8
Unknown MRF:		Total:	171
Total:	5		
Volcanic Rock Fragment (VRF)			
Microlitic:		Grain Replacement	
Lathwork:		Kaolinite	
Felsitic:	1	Orthoclase:	
Altered VRF:	1	Microcline:	
Unknown VRF:		Plagioclase:	
		Unknown Feldspar:	
		SRF:	
		VRF:	
		MRF:	
		Mica:	6

Total:	2

Accessory Minerals	
Muscovite:	3
Biotite:	
Tourmaline:	
Sphene:	1
Zircon:	
Total:	4

Other	
Unknown RF:	
Total:	0

Matrix	
Clay Cutans:	
Pore Filling:	
Total:	0

^a Rock Fragment

	Unknown RF:	
	Unknown Grain:	
Calcite		
	Orthoclase:	2
	Microcline:	
	Plagioclase:	
	Unknown Feldspar:	
	SRF:	
	VRF:	
	MRF:	
	Mica:	
	Unknown RF:	
	Unknown Grain:	
Fe-O		
	Orthoclase:	
	Microcline:	
	Plagioclase:	
	Unknown Feldspar:	
	SRF:	
	VRF:	
	MRF:	
	Mica:	
	Unknown RF:	
	Unknown Grain:	
Total:		8

Sample Name: GM-W-051608-4
Sample Type: Outcrop

Sub-unit: Lower Wilcox
Total Points Counted: 349

Category	Counts
Quartz	
Mono Crystalline:	143
Poly Crystalline:	11
Volcanic:	4
Sedimentary:	1
Total:	159

Category	Counts
Porosity	
Intergranular:	56
Intragranular Plagioclase:	
Intragranular Microcline:	
Intragranular Potassium Feldspar:	
Intragranular Unknown Feldspar:	
Oversized:	2

Feldspar		
Plagioclase:		2
Orthoclase:		12
Microcline:		1
Total		15

Unknown VRF:	3
Felsitic:	3
Intragranular MRF	
Quartzofeldspathic:	1

Sedimentary Rock Fragment (SRF)	
Argillaceous RF ^a :	
Chert:	9
Siltstone RF:	
Sandstone RF:	
Argillaceous Chert:	4
Unknown SRF:	
Total:	13

Intragranular SRF	
Intragranular Unknown RF:	
Intragranular Unknown Grain:	2
Intragranular Mica:	1
Total:	68

Metamorphic Rock Fragment (MRF)		
Quartzofeldspathic:		
Quartz-Rich		
foliated:		2
polygonal:		4
Mica-Rich		
foliated:		
polygonal:		
Unknown MRF:		
Total:		6

Cement/Overgrowth	
Quartz:	
Kaolinite:	1
Fe-Oxide:	66
Calcite	
intergranular:	
oversized:	
Total:	67

Volcanic Rock Fragment (VRF)	
Microlitic:	
Lathwork:	
Felsitic:	1

Grain Replacement	
Kaolinite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
	SRF:

Altered VRF:		3
Unknown VRF:		
Total:		4

Accessory Minerals	
Muscovite:	3
Biotite:	1
Tourmaline:	
Sphene:	
Zircon:	
Total:	4

Other	
Unknown RF:	2
Total:	2

Matrix	
Clay Cutans:	6
Pore Filling:	
Total:	6

^a Rock Fragment

	VRF:	
	MRF:	
	Mica:	
	Unknown RF:	
	Unknown Grain:	1
Calcite		
	Orthoclase:	
	Microcline:	
	Plagioclase:	
	Unknown Feldspar:	
	SRF:	
	VRF:	
	MRF:	
	Mica:	
	Unknown RF:	
	Unknown Grain:	
Fe-O		
	Orthoclase:	1
	Microcline:	
	Plagioclase:	
	Unknown Feldspar:	
	SRF:	
	VRF:	
	MRF:	
	Mica:	
	Unknown RF:	
	Unknown Grain:	3
Total:		5

Sample Name: Burns1-9241
Sample Type: Core

Sub-unit: Lower Wilcox
Total Points Counted: 351

Category	Counts
Quartz	
Mono Crystalline:	135
Poly Crystalline:	7
Volcanic:	4
Sedimentary:	
Total:	146

Category	Counts
Porosity	
Intergranular:	22
Intragranular Plagioclase:	
Intragranular Microcline:	
Intragranular Potassium Feldspar:	
Intragranular Unknown Feldspar:	3
Oversized:	
Intragrannular VRF	
Lathwork:	4
Intragrannular MRF	
Intragrannular SRF	
Intragranular Unknown RF:	
Intragranular Unknown Grain:	3
Total:	32

Sedimentary Rock Fragment (SRF)	
Argillaceous RF ^a :	3
Chert:	15
Siltstone RF:	1
Sandstone RF:	
Argillaceous Chert:	10
Unknown SRF:	
Total:	29

Cement/Overgrowth	
Quartz:	6
Kaolinite:	36
Fe-Oxide:	1
Calcite	
intergranular:	
oversized:	
Total:	43

Metamorphic Rock Fragment (MRF)	
Quartzofeldspathic:	2
Quartz-Rich	
foliated:	
polygonal:	2
Mica-Rich	
foliated:	
polygonal:	
Unknown MRF:	1
Metamorphosed Chert:	2
Total:	7

Grain Replacement	
Kaolinite	
Orthoclase:	
Microcline:	

Microlitic:	
Lathwork:	6
Felsitic:	6
Altered VRF:	1
Unknown VRF:	
Total:	13

Accessory Minerals

Muscovite:	
Biotite:	
Tourmaline:	
Sphene:	
Zircon:	
Total:	0

Other

Unknown RF:	
Total:	0

Matrix

Clay Cutans:	
Pore Filling:	55
Total:	55

^a Rock Fragment

Plagioclase:	
Unknown Feldspar:	2
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Calcite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Fe-O	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Total:	2

Sample Name: Burns1-9297
 Sample Type: Core

Sub-unit: Lower Wilcox
 Total Points Counted: 350

Category	Counts	Category	Counts
Quartz			
Mono Crystalline:	182	Porosity	
Poly Crystalline:	8	Intergranular:	28
Volcanic:	4	Intragranular Plagioclase:	1
Sedimentary:	1	Intragranular Microcline:	1
B		Intragranular Potassium Feldspar:	4
Total:	195	Intragranular Unknown Feldspar:	7
Feldspar			
Plagioclase:	9	Oversized:	
Orthoclase:	1	Intragranular VRF	
Microcline:	1	Lathwork:	6
Unknown Feldspar	1	Felsitic:	3
Total:	12	Unknown VRF:	2
Sedimentary Rock Fragment (SRF)			
Argillaceous RF ^a :	4	Intragranular MRF	
Chert:	27	Quartzofeldspathic:	2
Siltstone RF:	1	Intragranular SRF	
Sandstone RF:		Argillaceous RF:	1
Argillaceous Chert:	5	Intrgranular Unknown RF:	4
Unknown SRF:		Intrgranular Unknown Grain:	3
Total:	37	Total:	62
Metamorphic Rock Fragment (MRF)			
Quartzofeldspathic:	5	Cement/Overgrowth	
Quartz-Rich		Quartz:	20
foliated:		Kaolinite:	3
polygonal:		Fe-Oxide:	4
Mica-Rich		Calcite	
foliated:	1	intergranular:	
polygonal:		oversized:	
Unknown MRF:		Total:	27

Grain Replacement

Total:	6
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Volcanic Rock Fragment (VRF)

Microlitic:	
Lathwork:	2
Felsitic:	5
Altered VRF:	2
Unknown VRF:	
Total:	9

Accessory Minerals

Muscovite:	
Biotite:	
Tourmaline:	
Sphene:	
Zircon:	
Total:	0

Other

Unknown RF:	
Glauconite	1
Total:	1

Matrix

Clay Cutans:	
Pore Filling:	
Total:	0

^a Rock Fragment

Kaolinite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	1
Calcite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Fe-O	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Total:	1

Sample Name: Burns1-9334
Sample Type: Core

Sub-unit: Lower Wilcox
Total Points Counted: 350

Category	Counts	Category	Counts
Quartz			
Mono Crystalline:	173	Porosity	
Poly Crystalline:	15	Intergranular:	33
Volcanic:	5	Intragranular Plagioclase:	1
Sedimentary:		Intragranular Microcline:	
Total:	193	Intragranular Potassium Feldspar:	5
Feldspar			
Plagioclase:	7	Intragranular Unknown Feldspar:	
Orthoclase:	8	Oversized:	5
Microcline:	3	Intragranular VRF	
		Altered VRF:	1
		Lathwork:	2
		Felsitic:	1
Total:	18	Intragranular MRF	
Sedimentary Rock Fragment (SRF)			
Argillaceous RF ^a :	3	Intragranular SRF	
Chert:	14	Chert:	3
Siltstone RF:	2		
Sandstone RF:			
Argillaceous Chert:	9	Intragranular Unknown RF:	
Unknown SRF:		Intragranular Unknown Grain:	1
Total:	28	Total:	52
Metamorphic Rock Fragment (MRF)			
Quartzofeldspathic:		Cement/Overgrowth	
Quartz-Rich		Quartz:	33
foliated:	1	Kaolinite:	
polygonal:	3	Fe-Oxide:	
Mica-Rich		Calcite	
foliated:		intergranular:	
		oversized:	3

polygonal:	
Unknown MRF:	
Total:	4

Volcanic Rock Fragment (VRF)	
Microlitic:	
Lathwork:	7
Felsitic:	7
Altered VRF:	3
Unknown VRF:	
Devitrified Glass:	1
Total:	18

Accessory Minerals	
Muscovite:	
Biotite:	
Tourmaline:	
Sphene:	
Zircon:	
Total:	0

Other	
Unknown RF:	
Total:	0

Matrix	
Clay Cutans:	
Pore Filling:	
Total:	0

Total:	36
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Grain Replacement	
Kaolinite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Calcite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	1
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Fe-O	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Total:	1

^a Rock Fragment

Sample Name: Burns 1-9525
Sample Type: Core

Sub-unit: Lower Wilcox
Total Points Counted: 350

Category	Counts	Category	Counts
Quartz			
Mono Crystalline:	191	Porosity	
Poly Crystalline:	7	Intergranular:	44
Volcanic:	1	Intragranular Plagioclase:	1
Sedimentary:		Intragranular Microcline:	
Total:	199	Intragranular Potassium Feldspar:	7
Feldspar			
Plagioclase:	8	Intragranular Unknown Feldspar:	2
Orthoclase:	14	Oversized:	5
Microcline:	2	Intragranular VRF	
Altered Feldspar:	2	Felsitic:	3
Total:	26	Lathwork:	1
Sedimentary Rock Fragment (SRF)			
Argillaceous RF ^a :		Altered VRF:	1
Chert:	4	Intragranular MRF	
Siltstone RF:		Intragranular SRF	
Sandstone RF:		Chert:	4
Argillaceous Chert:	1	Argillaceous Chert:	1
Unknown SRF:		Intragranular Unknown RF:	
Total:	5	Intragranular Unknown Grain:	
Metamorphic Rock Fragment (MRF)			
Quartzofeldspathic:		Total:	69
Quartz-Rich		Cement/Ovgrowth	
foliated:		Quartz:	27
		Kaolinte:	12
		Fe-Oxide:	1
		Calcite	

polygonal:	2
Mica-Rich	
foliated:	1
polygonal:	
Unknown MRF:	
Total:	3

Volcanic Rock Fragment (VRF)	
Microlitic:	
Lathwork:	1
Felsitic:	3
Altered VRF:	1
Unknown VRF:	
Total:	5

Accessory Minerals	
Muscovite:	
Biotite:	
Tourmaline:	
Sphene:	
Zircon:	
Total:	0

Other	
Unknown RF:	
Total:	0

Matrix	
Clay Cutans:	
Pore Filling:	3
Total:	3

^a Rock Fragment

intergranular:	
oversized:	
Total:	40

Grain Replacement	
Kaolinite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Calcite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Fe-O	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Total:	0

Sample Name: Burns 1-9614 Sub-unit: Lower Wilcox
 Sample Type: Core Total Points Counted: 348

Category	Counts	Category	Counts
Quartz			
Mono Crystalline:	225	Porosity	
Poly Crystalline:	7	Intergranular:	30
Volcanic:	3	Intragranular Plagioclase:	2
Sedimentary:		Intragranular Microcline:	
Total:	235	Intragranular Potassium Feldspar	5
Feldspar			
Plagioclase:	9	Intragranular Unknown Feldspar:	2
Orthoclase:	7	Oversized:	
Microcline:	2	Intragranular VRF	
Unknown Feldspar:	1	Intragranular MRF	
Total	19	Intragranular SRF	
Sedimentary Rock Fragment (SRF)			
Argillaceous RF ^a :		Chert:	2
Chert:	8	Intragranular Unknown RF:	3
Siltstone RF:		Intragranular Unknown Grain:	6
Sandstone RF:		Total:	50
Argillaceous Chert:			
Unknown SRF:			
Total:	8		
Cement/Overgrowth			
Quartz:	15		
Kaolinte:			

Metamorphic Rock Fragment (MRF)

Quartzofeldspathic:	
Quartz-Rich	
foliated:	1
polygonal:	6
Mica-Rich	
foliated:	
polygonal:	2
Unknown MRF:	
Total:	9

Fe-Oxide:	1
Calcite	
intergranular:	1
oversized:	6
Total:	23

Volcanic Rock Fragment (VRF)	
Microlitic:	
Lathwork:	
Felsitic:	1
Altered VRF:	
Unknown VRF:	
Total:	1

Accessory Minerals	
Muscovite:	1
Biotite:	1
Tourmaline:	
Sphene:	
Zircon:	
Total:	2
Other	
Unknown RF:	1
Total:	1
Matrix	
Clay Cutans:	
Pore Filling:	
Total:	0
^a Rock Fragment	
Kaolinite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Calcite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Fe-O	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Total:	0

Sample Name: Paul 1-9152 Sub-unit: Lower Wilcox
 Sample Type: Core Total Points Counted: 347

Category	Counts	Category	Counts
Quartz			
Mono Crystalline:	207	Porosity	
Poly Crystalline:	9	Intergranular:	32
Volcanic:		Intragranular Plagioclase:	
Sedimentary:		Intragranular Microcline:	
Total:	216	Intragranular Potassium Feldspar:	4
Feldspar			
Plagioclase:	7	Intragranular Unknown Feldspar:	5
Orthoclase:	9	Oversized:	3
Microcline:		Intragranular VRF	
Total:	16	Lathwork:	2
Sedimentary Rock Fragment (SRF)			
Argillaceous RF ^a :		Felsitic:	1
Chert:	4	Intragranular MRF	
Siltstone RF:		Intragranular SRF	
Sandstone RF:	1	Intragranular Unknown RF:	
Argillaceous Chert:	2	Intragranular Unknown Grain:	2
Unknown SRF:		Intragranular Calcite replacing Feldspar	1
		Total:	50

Total:	7
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Metamorphic Rock Fragment (MRF)

Quartzofeldspathic:	
Quartz-Rich	
foliated:	1
polygonal:	
Mica-Rich	
foliated:	3
polygonal:	3
Unknown MRF:	1
Total:	8

Volcanic Rock Fragment (VRF)

Microlitic:	
Lathwork:	
Felsitic:	3
Altered VRF:	1
Unknown VRF:	
Total:	4

Accessory Minerals

Muscovite:	2
Biotite:	
Tourmaline:	
Sphene:	
Zircon:	
Total:	2

Other

Unknown RF:	
Glaucosite:	1
Total:	1

Matrix

Clay Cutans:	
Pore Filling:	14
Total:	14

^a Rock Fragment

Cement/Overgrowth

Quartz:	12
Kaolinite:	
Fe-Oxide:	10
Calcite	
intergranular:	3
oversized:	
Total:	25

Grain Replacement

Kaolinite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Calcite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	2
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Fe-O	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	1
Unknown RF:	
Unknown Grain:	1
Total:	4

Sample Name: Winch St. 4-9310
Sample Type: Core

Sub-unit: Lower Wilcox
Total Points Counted: 350

Category	Counts
Quartz	
Mono Crystalline:	208
Poly Crystalline:	5
Volcanic:	6
Sedimentary:	
Total:	219

Feldspar

Plagioclase:	13
Orthoclase:	3
Microcline:	
Total:	16

Sedimentary Rock Fragment (SRF)

Argillaceous RF ^a :	1
Chert:	2
Siltstone RF:	

Category	Counts
Porosity	
Intergranular:	33
Intragranular Plagioclase:	
Intragranular Microcline:	
Intragranular Potassium Feldspar	1
Intragranular Unknown Feldspar:	5
Oversized:	7
Intragranular VRF	
Felsitic:	1
Intragranular MRF	
Intragranular SRF	
Intragranular Unknown RF:	4

Sandstone RF:	
Argillaceous Chert:	
Unknown SRF:	
Total:	3

Intragranular Unknown Grain:	5
Total:	56

Cement/Overgrowth

Quartz:	10
Kaolinite:	
Fe-Oxide:	2
Calcite	
intergranular:	13
oversized:	2
Total:	27

Metamorphic Rock Fragment (MRF)

Quartzofeldspathic:	
Quartz-Rich	
foliated:	3
polygonal:	2
Mica-Rich	
foliated:	1
polygonal:	
Unknown MRF:	
Total:	6

Grain Replacement

Kaolinite	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Calcite	
Orthoclase:	1
Microcline:	
Plagioclase:	
Unknown Feldspar:	10
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	

Fe-O	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	1
Total:	15

^a Rock Fragment

Sample Name: Winch St. 4-9948
Sample Type: Core

Sub-unit: Upper Wilcox
Total Points Counted: 350

Category	Counts	Category	Counts
Quartz			
Mono Crystalline:	149	Porosity	
Poly Crystalline:	7	Intergranular:	2
Volcanic:	4	Intragranular Plagioclase:	
Sedimentary:	2	Intragranular Microcline:	
Total:	162	Intragranular Potassium Feldspar:	
Feldspar			
Plagioclase:	8	Intragranular Unknown Feldspar:	6
Orthoclase:	7	Oversized:	
Microcline:		Intragranular VRF	
Unknown Feldspar:	4	Lathwork:	1
Total:	19	Intragranular MRF	
Sedimentary Rock Fragment (SRF)			
Intragranular SRF			

Argillaceous RF ^a :	1
Chert:	13
Siltstone RF:	
Sandstone RF:	
Argillaceous Chert:	2
Unknown SRF:	
Total:	16

Intragranular Unknown RF:	
Intragranular Unknown Grain:	6
Total:	15

Metamorphic Rock Fragment (MRF)	
Quartzofeldspathic:	1
Quartz-Rich	
foliated:	
polygonal:	
Mica-Rich	
foliated:	
polygonal:	
Unknown MRF:	
Total:	1

Cement/Overgrowth	
Quartz:	
Kaolinite:	
Fe-Oxide:	
Calcite	
intergranular:	120
oversized:	6
Total:	126

Volcanic Rock Fragment (VRF)	
Microlitic:	
Lathwork:	2
Felsitic:	1
Altered VRF:	4
Unknown VRF:	
Total:	7

Accessory Minerals	
Muscovite:	
Biotite:	
Tourmaline:	
Sphene:	
Zircon:	
Total:	0
Other	
Unknown RF:	
Unknown Grain:	1
Total:	1
Matrix	
Clay Cutans:	
Pore Filling:	
Total:	0
Intragranular Unknown RF:	
Intragranular Unknown Grain:	1
Fe-O	
Orthoclase:	
Microcline:	
Plagioclase:	
Unknown Feldspar:	
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Calcite	
Orthoclase:	1
Microcline:	
Plagioclase:	
Unknown Feldspar:	1
SRF:	
VRF:	
MRF:	
Mica:	
Unknown RF:	
Unknown Grain:	
Unknown RF:	
Unknown Grain:	
Total:	3

^a Rock Fragment

POINT COUNT PARAMETERS

Symbol	Definition
Qm	Monocrystalline Q
Qpq	Polycrystalline Q
Qc	Chert
Km	Microcline
Ko	Orthoclase
K	Potassium Feldspar (= Km + Ko)
P	Plagioclase Feldspar
Fu	Unknown Feldspar
Lmf	grains
Lmp	grains
Lmqf	grains
Lmu	Unknown metamorphic grains
Lss	sandstone, siltstone, argillitic and
Lvf	Felsitic volcanic lithic grains
Lvl	Lathwork volcanic lithic grains
Lvm	Microlitic volcanic lithic grains
Lva	Altered volcanic lithic grains
Lvu	Unknown volcanic lithic grains
Lu	Unknown lithic grain
Qt	Total quartzose grains (= Qm + Qpc + Qc)
Qtc	Total Quartzose grains excluding chert (= Qm + Qpc)
F	Total Feldspar (= K + P + Fu)
Lm	Total metamorphic grains (= Lmf + Lmp + Lmqf + Lmu)
Lv	Total volcanic grains (= Lvf + Lvl + Lvm + Lva + Lv)
Ls	Total sedimentary grains (= Lss)
L	Total unstable lithic grains (= Lm + Lv + Ls)
Qp	Total polycrystalline quartz (= Qpq + Qc)
Lt	Total lithic grains (= L + Qp)

Recalculated Parameters

QtFL%Qt	=100Qt/(Qt + F + L)
QtFL%F	=100F/(Qt + F + L)
QtFL%L	=100L/(Qt + F + L)
QmFLt%Qm	=100Qm/(Qm + F + L)
QmFLt%F	=100F/(Qm + F + L)
QmFLt%Lt	=100Lt/(Qm + F + L)
LmLvLs%Lm	=100Lm/(Lm + Lv + Ls)
LmLvLs%Lv	=100Lv/(Lm + Lv + Ls)
LmLvLs%Ls	=100Ls/(Lm + Lv + Ls)
QmPK%Qm	=100Qm/(Qm + P + K)
QmPK%P	=100P/(Qm + P + K)
QmPK%K	=100K/(Qm + P + K)
QmQtc%Qm	=100Qm/(Qm + Qtc)
QtcF%F	=100F/(F + Qtc)
QtcF%Qtc	=100Qtc/(F + Qtc)
PK%P	=100P/(P + K)
KmKo%Km	=100Km/(Km + Ko)
QcQt%Qc	=100Qc/(Qc + Qt)
QcLt%Qc	=100Qc/(Qc + Lt)

Sample		RECALCULATED MODAL POINT-COUNT DATA FOR THE WILCOX GROUP SANDSTONES, SOUTH TEXAS																				
Sample Name	Type *	Qt	F	L	Qm	F	Lt	Lm	Lv	Ls	Qm	P	K	Qm	F	Qtc	P	Km	Qc	Qc	Grain Size (µm)	Primary Porosity
Upper Wilcox Samples																						
GM-C-051408-1	o	87	7	6	72	7	21	75	17	8	92	4	4	88	7	93	47	75	6	23	219	34
GM-C-051408-2	o	91	6	2	78	6	15	50	0	93	1	6	90	7	93	9	40	5	29	300	38	
GM-C-051408-3	o	95	4	2	80	4	16	0	0	100	96	1	3	92	4	96	17	0	7	43	339	38
GM-C-051408-5	o	92	5	4	79	5	16	0	75	25	96	0	4	90	5	95	0	13	4	20	347	32
GM-C-051408-7	o	93	3	4	79	3	18	0	71	29	97	1	3	88	3	97	20	0	3	17	349	41
GM-C-051408-8	o	94	1	6	83	1	16	0	0	100	99	0	1	92	1	99	0	0	4	22	302	42
GM-C-051408-9	o	91	7	2	81	7	12	20	20	60	92	1	7	92	7	93	13	38	3	25	408	37
GM-C-051408-10	o	77	16	7	60	16	24	30	60	10	79	0	21	89	19	81	0	18	12	40	311	47
GM-C-051408-11	o	84	6	10	71	6	23	9	9	83	93	1	6	88	7	94	15	18	3	11	422	30
GM-C-051408-12	o	85	9	6	68	9	23	58	25	17	88	0	12	89	11	89	0	5	10	38	172	36
GM-C-051408-13	o	95	3	1	82	3	14	0	33	67	96	0	4	93	4	96	0	14	7	48	228	35
GM-C-051408-14	o	82	12	6	74	12	15	50	25	25	86	0	14	94	13	87	0	9	4	24	244	37
GM-C-051508-1	o	80	11	9	71	11	18	47	47	6	86	0	14	95	13	87	0	8	6	27	162	34
GM-C-051508-2	o	86	7	6	62	7	31	0	18	82	90	0	10	86	9	91	0	8	17	47	250	46
GM-C-051508-3	o	84	6	10	53	6	41	11	50	39	90	0	10	87	8	92	0	0	27	55	394	33
GM-C-051608-1	o	96	3	1	83	3	14	0	0	100	96	0	4	88	3	97	0	29	1	10	450	36
GM-C-051608-2	o	92	6	2	78	6	16	50	0	50	93	1	6	88	6	94	17	10	4	22	260	36
GM-C-051608-3	o	83	8	9	66	8	26	63	31	6	89	3	7	89	10	90	29	0	12	37	218	35
GM-C-051608-4	o	90	5	5	80	5	16	44	56	0	95	1	4	92	5	95	11	38	4	22	204	30
GM-C-051608-5	o	86	5	9	73	5	22	38	38	25	94	0	6	89	5	95	0	73	4	16	292	28
Bailey 1C-10474	c	81	14	5	77	14	8	91	9	0	92	6	1	97	15	85	83	0	1	13	159	13
Bailey 1C-10491	c	91	4	5	84	4	12	25	50	25	96	3	1	96	5	95	75	0	3	27	121	23
Urban1-13896	c	85	11	4	81	11	7	88	13	0	95	4	1	97	12	88	73	0	1	11	81	20
Urban1-14097	c	83	13	3	77	13	9	88	13	0	94	6	0	93	14	86	100	0	0	4	107	20
Mean		88	7	5	75	7	18	35	30	36	93	1	6	91	8	92	21	16	6	26	264	33
Std Dev [†]		5.4	3.9	2.9	8.1	3.9	7.5	31.4	23.2	35.4	4.4	1.9	5.0	3.2	4.5	4.5	30.7	21.9	5.9	13.4	102.3	8.0
Lower Wilcox Samples																						
GM-W-051408-1	o	80	11	9	68	11	21	56	22	22	88	1	11	91	13	87	5	44	7	26	179	32
GM-W-051508-2	o	81	7	12	55	7	38	41	55	5	89	2	9	88	10	90	20	17	22	48	168	38
GM-W-051508-3	o	83	10	7	61	10	29	31	69	0	86	0	14	90	13	87	0	20	18	52	149	38
GM-W-051508-4	o	82	9	9	69	9	22	29	57	14	89	1	11	95	11	89	6	6	11	43	82	40
GM-W-051608-1	o	80	11	8	66	11	23	25	63	13	86	1	14	92	14	86	4	23	11	40	185	34
GM-W-051608-2	o	86	4	10	53	4	42	6	82	12	92	0	8	83	7	93	0	10	25	51	199	32
GM-W-051608-3	o	80	16	4	66	16	18	71	29	0	81	0	19	88	18	82	0	15	6	27	169	47
GM-W-051608-4	o	83	8	9	71	8	21	41	59	0	90	1	9	93	9	91	13	7	8	30	116	37
Burns1-9241	c	75	13	12	61	13	26	25	61	14	85	4	10	95	17	83	29	35	15	42	175	34
Burns1-9297	c	78	9	13	64	9	27	24	59	18	92	5	3	96	11	89	59	29	14	41	207	16
Burns1-9334	c	80	9	11	65	9	26	13	71	16	88	4	8	92	11	89	33	19	12	36	240	20
Burns1-9525	c	81	14	5	74	14	12	23	77	0	86	4	10	96	15	85	28	9	5	33	224	25
Burns1-9614	c	85	10	5	79	10	11	90	10	0	90	4	6	97	11	89	44	14	4	32	208	14
Paul1-9152	c	83	11	6	78	11	12	50	44	6	91	3	6	96	11	89	35	0	3	19	128	20
Winch St. 4-9310	c	82	12	5	80	12	8	67	22	11	92	6	2	98	13	87	72	0	1	10	74	17
Winch St. 4-9948	c	83	13	5	72	13	15	10	80	10	91	5	5	96	14	86	50	0	8	47	105	35
Mean		81	10	8	68	10	22	38	54	9	88	3	9	93	12	88	25	15	11	36	163	30
Std Dev [†]		2.7	2.8	3.0	8.0	2.8	9.6	23.8	22.2	7.4	3.1	2.0	4.3	4.0	2.8	2.8	22.8	12.8	6.9	11.8	49.9	10.0

^{*} Sample type c is from core and sample type o is from outcrop.

[†] Std Dev is one standard deviation for the mean.

	Actual		Expected	
	UW	LW	UW	LW
Qm	3941	2535	3795	2681
F	379	384	447	316
Lt	938	795	1016	717
# of Samples	24	16	24	16
χ^2 Distribution	52.948			
Probability	3.181E-12			

^aThe χ^2 test compares the actual values of a two or more sets of measurements to their expected values calculated based on the null hypothesis that each of the data sets is the same, and returns a probability (P) that the differences between the two data sets are random. If P<0.05, then at a 95% confidence level the two data sets can be said to be different. If P≥0.05, then the two data sets are statistically the same. Tests where P≥0.05 are marked by bold text.

	Actual		Expected	
	UW	LW	UW	LW
Qt	4601	3025	4469	3157
F	379	384	447	316
L	278	305	342	241
# of Samples	24	16	24	16
χ^2 Distribution	63.143			
Probability	1.944E-14			

^aThe χ^2 test compares the actual values of a two or more sets of measurements to their expected values calculated based on the null hypothesis that each of the data sets is the same, and returns a probability (P) that the differences between the two data sets are random. If P<0.05, then at a 95% confidence level the two data sets can be said to be different. If P≥0.05, then the two data sets are statistically the same. Tests where P≥0.05 are marked by bold text.

	Mean	Std Dev	# of Samples	Mean	Std Dev	# of Samples	t Distribution	Probability
QtFL%Qt	87.7%	5.4%	24	81.4%	2.7%	16	4.267	0.000
QtFL%F	7.1%	3.9%	24	10.4%	2.8%	16	2.872	0.007
QtFL%L	5.2%	2.9%	24	8.2%	3.0%	16	3.094	0.004
QmFLt%Qm	74.8%	8.1%	24	67.8%	8.0%	16	2.705	0.010
QmFLt%F	7.1%	3.9%	24	10.4%	2.8%	16	2.872	0.007
QmFLt%Lt	18.1%	7.5%	24	21.8%	9.6%	16	1.375	0.177
LmLvLs%Lm	34.8%	31.4%	24	37.5%	23.8%	16	0.294	0.770
LmLvLs%Lv	29.5%	23.2%	24	53.7%	22.2%	16	3.275	0.002
LmLvLs%Ls	35.7%	35.4%	24	8.8%	7.4%	16	2.976	0.005
QmPK%Qm	92.5%	4.4%	24	88.5%	3.1%	16	3.234	0.003
QmPK%P	1.3%	1.9%	24	2.5%	2.0%	16	1.882	0.067
QmPK%K	6.1%	5.0%	24	9.0%	4.3%	16	1.893	0.066
Qm/Qtc	90.8%	3.2%	24	92.9%	4.0%	16	1.786	0.082
QtcF%F	8.0%	4.5%	24	12.4%	2.8%	16	3.466	0.001
QtcF%Qtc	92.0%	4.5%	24	87.6%	2.8%	16	3.466	0.001
PK%P	21.2%	30.7%	24	24.9%	22.8%	16	0.408	0.685
KmKo%Km	16.5%	21.9%	24	15.5%	12.8%	16	0.162	0.872
QcQt%Qc	6.2%	5.9%	24	10.6%	6.9%	16	2.146	0.038
QcLt%Qc	26.3%	13.4%	24	36.0%	11.8%	16	2.354	0.024

^aThe Student's T-test compares the mean values for two sets of data, and returns a probability (P) that the differences between the two data sets are random. If P<0.05, then at a 95% confidence level the two data sets can be said to be different. If P≥0.05, then the two data sets are statistically the same. Tests where P≥0.05 are marked by bold text.

Sample Name: Bailey 1C (Z7)		Isotopic Ratios								Apparent Ages (Ma)								
Analysis	U (ppm)	$\frac{^{206}\text{Pb}}{^{204}\text{Pb}}$	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 2 \sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 2 \sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 2 \sigma$ abs	Rho	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 1 \sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 1 \sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 1 \sigma$ abs	Best Age	$\pm 1 \sigma$ abs	
1	Bailey-1C 72	287	66	0.0851	± 0.0265	0.1458	± 0.0519	0.0124	± 0.0021	0.4846	1319	± 301.6	138	± 23.0	80	± 6.8	80	± 6.8
2	Bailey-1C 14	184	60	0.0850	± 0.0169	0.1601	± 0.0334	0.0137	± 0.0008	0.2978	1316	± 193.2	151	± 14.6	87	± 2.7	87	± 2.7
3	Bailey-1C 69	817	236	0.0517	± 0.0024	0.1056	± 0.0052	0.0148	± 0.0002	0.2827	274	± 53.7	102	± 2.4	95	± 0.6	95	± 0.6
4	Bailey-1C 124	469	172	0.0608	± 0.0037	0.1414	± 0.0090	0.0169	± 0.0003	0.3104	632	± 65.0	134	± 4.0	108	± 1.1	108	± 1.1
5	Bailey-1C 25	278	76	0.0884	± 0.0116	0.2114	± 0.0319	0.0174	± 0.0013	0.4926	1390	± 126.2	195	± 13.4	111	± 4.1	111	± 4.1
6	Bailey-1C 108	166	67	0.0844	± 0.0189	0.2033	± 0.0469	0.0175	± 0.0010	0.2443	1303	± 217.5	188	± 19.8	112	± 3.1	112	± 3.1
7	Bailey-1C 22	419	111	0.0771	± 0.0067	0.1973	± 0.0185	0.0186	± 0.0007	0.3770	1123	± 86.7	183	± 7.9	119	± 2.1	119	± 2.1
8	Bailey-1C 111	179	53	0.0820	± 0.0202	0.2314	± 0.0604	0.0205	± 0.0018	0.3368	1246	± 240.7	211	± 24.9	131	± 5.7	131	± 5.7
9	Bailey-1C 19	216	89	0.0730	± 0.0069	0.2118	± 0.0215	0.0210	± 0.0008	0.3808	1015	± 95.1	195	± 9.0	134	± 2.6	134	± 2.6
10	Bailey-1C 45	386	162	0.0656	± 0.0046	0.1992	± 0.0151	0.0220	± 0.0006	0.3657	792	± 73.9	184	± 6.4	141	± 1.9	141	± 1.9
11	Bailey-1C 128	163	74	0.0884	± 0.0091	0.3410	± 0.0363	0.0280	± 0.0007	0.2516	1391	± 98.9	298	± 13.7	178	± 2.4	178	± 2.4
12	Bailey-1C 50	412	269	0.0616	± 0.0026	0.2739	± 0.0189	0.0323	± 0.0018	0.7947	659	± 45.0	246	± 7.5	205	± 5.5	205	± 5.5
13	Bailey-1C 59	216	81	0.0857	± 0.0093	0.4166	± 0.0458	0.0353	± 0.0007	0.1882	1331	± 104.5	354	± 16.4	223	± 2.3	223	± 2.3
14	Bailey-1C 36	573	339	0.0536	± 0.0020	0.2628	± 0.0164	0.0356	± 0.0018	0.8016	355	± 42.1	237	± 6.6	225	± 5.5	225	± 5.5
15	Bailey-1C 70	261	117	0.0866	± 0.0051	0.4364	± 0.0347	0.0365	± 0.0019	0.6661	1352	± 57.2	368	± 12.3	231	± 6.0	231	± 6.0
16	Bailey-1C 5	361	189	0.0615	± 0.0031	0.3168	± 0.0189	0.0374	± 0.0012	0.5335	655	± 54.1	279	± 7.3	237	± 3.7	237	± 3.7
17	Bailey-1C 80	396	165	0.0650	± 0.0034	0.3411	± 0.0203	0.0381	± 0.0011	0.4764	774	± 54.9	298	± 7.7	241	± 3.3	241	± 3.3
18	Bailey-1C 94	442	211	0.0678	± 0.0051	0.3621	± 0.0304	0.0388	± 0.0014	0.4442	861	± 78.1	314	± 11.3	245	± 4.5	245	± 4.5
19	Bailey-1C 106	391	200	0.0634	± 0.0032	0.3438	± 0.0182	0.0393	± 0.0007	0.3296	723	± 53.1	300	± 6.9	248	± 2.1	248	± 2.1
20	Bailey-1C 51	235	143	0.0672	± 0.0046	0.3826	± 0.0266	0.0413	± 0.0006	0.2054	844	± 70.7	329	± 9.8	261	± 1.8	261	± 1.8
21	Bailey-1C 27	145	115	0.0665	± 0.0066	0.3808	± 0.0420	0.0416	± 0.0019	0.4229	821	± 104.3	328	± 15.4	262	± 6.0	262	± 6.0
22	Bailey-1C 47	91	61	0.0822	± 0.0140	0.5398	± 0.0959	0.0476	± 0.0024	0.2792	1251	± 167.0	438	± 31.6	300	± 7.3	300	± 7.3
23	Bailey-1C 123	184	214	0.0605	± 0.0037	0.5558	± 0.0363	0.0666	± 0.0014	0.3242	623	± 66.7	449	± 11.9	416	± 4.3	416	± 4.3
24	Bailey-1C 62	195	227	0.0638	± 0.0037	0.5983	± 0.0379	0.0681	± 0.0016	0.3700	734	± 62.2	476	± 12.0	424	± 4.8	424	± 4.8
25	Bailey-1C 31	101	172	0.0694	± 0.0037	0.7300	± 0.0473	0.0763	± 0.0028	0.5646	910	± 55.1	557	± 13.9	474	± 8.4	474	± 8.4
26	Bailey-1C 11	249	241	0.0788	± 0.0039	0.8975	± 0.0464	0.0826	± 0.0014	0.3238	1166	± 48.5	650	± 12.4	512	± 4.1	512	± 4.1
27	Bailey-1C 21	302	361	0.0595	± 0.0020	0.7540	± 0.0577	0.0920	± 0.0063	0.8987	584	± 36.4	571	± 16.7	567	± 18.7	567	± 18.7
28	Bailey-1C 135	168	268	0.0800	± 0.0077	1.0937	± 0.1301	0.0992	± 0.0069	0.5877	1196	± 94.9	750	± 31.5	610	± 20.3	610	± 20.3
29	Bailey-1C 87	296	528	0.0645	± 0.0028	0.9655	± 0.0587	0.1086	± 0.0046	0.7025	757	± 45.6	686	± 15.2	665	± 13.5	665	± 13.5
30	Bailey-1C 122	231	341	0.0711	± 0.0040	1.1728	± 0.0896	0.1197	± 0.0063	0.6839	959	± 56.9	788	± 20.9	729	± 18.0	729	± 18.0
31	Bailey-1C 64	264	874	0.0771	± 0.0013	1.9098	± 0.0474	0.1797	± 0.0034	0.7530	1123	± 16.3	1084	± 8.3	1066	± 9.2	1123	± 16.3
32	Bailey-1C 73	156	560	0.0774	± 0.0019	2.2390	± 0.0629	0.2098	± 0.0028	0.4837	1131	± 24.5	1193	± 9.9	1228	± 7.6	1131	± 24.5
33	Bailey-1C 100	204	587	0.0781	± 0.0023	2.0116	± 0.0849	0.1868	± 0.0057	0.7267	1149	± 28.8	1119	± 14.3	1104	± 15.6	1149	± 28.8
34	Bailey-1C 77	185	846	0.0788	± 0.0012	2.0599	± 0.0503	0.1895	± 0.0036	0.7882	1168	± 14.9	1136	± 8.4	1119	± 9.9	1168	± 14.9
35	Bailey-1C 82	494	1,284	0.0790	± 0.0015	1.9533	± 0.0848	0.1794	± 0.0070	0.8981	1171	± 18.9	1100	± 14.6	1064	± 19.1	1171	± 18.9
36	Bailey-1C 99	728	898	0.0799	± 0.0006	2.2205	± 0.0798	0.2015	± 0.0071	0.9796	1195	± 7.1	1188	± 12.6	1183	± 19.0	1195	± 7.1
37	Bailey-1C 28	422	1,510	0.0810	± 0.0004	2.5670	± 0.0674	0.2299	± 0.0059	0.9830	1221	± 4.7	1291	± 9.6	1334	± 15.6	1221	± 4.7
38	Bailey-1C 81	83	221	0.0811	± 0.0024	1.8352	± 0.0774	0.1642	± 0.0049	0.7006	1223	± 29.6	1058	± 13.9	980	± 13.4	1223	± 29.6
39	Bailey-1C 30	144	506	0.0854	± 0.0021	2.1970	± 0.0721	0.1865	± 0.0040	0.6492	1326	± 24.2	1180	± 11.4	1102	± 10.8	1326	± 24.2
40	Bailey-1C 26	494	858	0.0871	± 0.0012	2.6026	± 0.1651	0.2167	± 0.0134	0.9753	1363	± 13.5	1301	± 23.3	1264	± 35.5	1363	± 13.5
41	Bailey-1C 132	116	380	0.0905	± 0.0033	2.9022	± 0.1639	0.2325	± 0.0100	0.7616	1436	± 34.9	1382	± 21.3	1348	± 26.2	1436	± 34.9
42	Bailey-1C 114	265	1,133	0.0913	± 0.0010	3.4663	± 0.1157	0.2754	± 0.0087	0.9478	1453	± 10.1	1520	± 13.2	1568	± 22.0	1453	± 10.1
43	Bailey-1C 104	114	336	0.0916	± 0.0026	2.7507	± 0.1831	0.2178	± 0.0132	0.9078	1459	± 26.5	1342	± 24.8	1270	± 34.8	1459	± 26.5
44	Bailey-1C 9	159	764	0.0926	± 0.0006	3.5171	± 0.0966	0.2755	± 0.0074	0.9727	1479	± 6.0	1531	± 10.9	1569	± 18.6	1479	± 6.0
45	Bailey-1C 32	107	630	0.0952	± 0.0010	3.8300	± 0.1087	0.2919	± 0.0077	0.9256	1531	± 10.1	1599	<				

Analysis	U (ppm)	$\frac{^{206}\text{Pb}}{^{204}\text{Pb}}$		$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$		$\pm 2\sigma$ abs		$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$		$\pm 2\sigma$ abs		$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$		$\pm 2\sigma$ abs	Rho	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$		$\pm 1\sigma$ abs		$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$		$\pm 1\sigma$ abs		$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$		$\pm 1\sigma$ abs		Best Age		$\pm 1\sigma$ abs			
		(ppm)	^{204}Pb	$^{206}\text{Pb}^*$	abs	^{235}U	abs	^{238}U	abs	$^{206}\text{Pb}^*$	abs	^{235}U	abs	$^{206}\text{Pb}^*$	abs	^{235}U	abs	$^{206}\text{Pb}^*$	abs	^{235}U	abs	$^{206}\text{Pb}^*$	abs	^{235}U	abs	$^{206}\text{Pb}^*$	abs	^{235}U	abs	$^{206}\text{Pb}^*$	abs	^{235}U	abs
1 Burns-1 11	721	146	0.0538	± 0.0045	0.0721	± 0.0062	0.0097	± 0.0002	0.2068	363	± 94.2	71	± 2.9	62	± 0.5	62	± 0.5	62	± 0.5	62	± 0.5	62	± 0.5	62	± 0.5	62	± 0.5	62	± 0.5	62	± 0.5	62	± 0.5
2 Burns-1 79	1389	475	0.0490	± 0.0023	0.0695	± 0.0033	0.0103	± 0.0001	0.2118	149	± 54.8	68	± 1.6	66	± 0.3	66	± 0.3	66	± 0.3	66	± 0.3	66	± 0.3	66	± 0.3	66	± 0.3	66	± 0.3	66	± 0.3	66	± 0.3
3 Burns-1 26	449	112	0.0467	± 0.0083	0.0679	± 0.0122	0.0105	± 0.0003	0.1515	35	± 212.2	67	± 5.8	68	± 0.9	68	± 0.9	68	± 0.9	68	± 0.9	68	± 0.9	68	± 0.9	68	± 0.9	68	± 0.9	68	± 0.9	68	± 0.9
4 Burns-1 55	118	34	0.0717	± 0.0218	0.1054	± 0.0325	0.0107	± 0.0006	0.1736	978	± 309.6	102	± 14.9	68	± 1.8	68	± 1.8	68	± 1.8	68	± 1.8	68	± 1.8	68	± 1.8	68	± 1.8	68	± 1.8	68	± 1.8	68	± 1.8
5 Burns-1 18	232	75	0.0530	± 0.0088	0.0814	± 0.0138	0.0111	± 0.0004	0.2287	331	± 187.6	79	± 6.5	71	± 1.4	71	± 1.4	71	± 1.4	71	± 1.4	71	± 1.4	71	± 1.4	71	± 1.4	71	± 1.4	71	± 1.4	71	± 1.4
6 Burns-1 25	203	62	0.0546	± 0.0134	0.0842	± 0.0210	0.0112	± 0.0005	0.1739	394	± 275.3	82	± 9.8	72	± 1.5	72	± 1.5	72	± 1.5	72	± 1.5	72	± 1.5	72	± 1.5	72	± 1.5	72	± 1.5	72	± 1.5	72	± 1.5
7 Burns-1 88	1702	721	0.0468	± 0.0015	0.0727	± 0.0025	0.0113	± 0.0001	0.3196	40	± 38.2	71	± 1.2	72	± 0.4	72	± 0.4	72	± 0.4	72	± 0.4	72	± 0.4	72	± 0.4	72	± 0.4	72	± 0.4	72	± 0.4	72	± 0.4
8 Burns-1 120	456	200	0.0782	± 0.0139	0.1230	± 0.0226	0.0114	± 0.0005	0.2416	1152	± 176.9	118	± 10.2	73	± 1.6	73	± 1.6	73	± 1.6	73	± 1.6	73	± 1.6	73	± 1.6	73	± 1.6	73	± 1.6	73	± 1.6	73	± 1.6
9 Burns-1 119	795	176	0.0740	± 0.0061	0.1170	± 0.0100	0.0115	± 0.0003	0.3011	1042	± 82.5	112	± 4.6	73	± 0.9	73	± 0.9	73	± 0.9	73	± 0.9	73	± 0.9	73	± 0.9	73	± 0.9	73	± 0.9	73	± 0.9	73	± 0.9
10 Burns-1 110	213	80	0.0577	± 0.0119	0.0922	± 0.0191	0.0116	± 0.0003	0.1302	519	± 225.7	90	± 8.9	74	± 1.0	74	± 1.0	74	± 1.0	74	± 1.0	74	± 1.0	74	± 1.0	74	± 1.0	74	± 1.0	74	± 1.0	74	± 1.0
11 Burns-1 124	290	116	0.0502	± 0.0103	0.0817	± 0.0169	0.0118	± 0.0003	0.1105	206	± 238.6	80	± 7.9	76	± 0.9	76	± 0.9	76	± 0.9	76	± 0.9	76	± 0.9	76	± 0.9	76	± 0.9	76	± 0.9	76	± 0.9	76	± 0.9
12 Burns-1 133	478	220	0.0442	± 0.0048	0.0735	± 0.0081	0.0121	± 0.0002	0.1811	0	± 0.0	72	± 3.8	77	± 0.8	77	± 0.8	77	± 0.8	77	± 0.8	77	± 0.8	77	± 0.8	77	± 0.8	77	± 0.8	77	± 0.8	77	± 0.8
13 Burns-1 9	186	52	0.0748	± 0.0151	0.1251	± 0.0256	0.0121	± 0.0004	0.1745	1063	± 202.8	120	± 11.6	78	± 1.4	78	± 1.4	78	± 1.4	78	± 1.4	78	± 1.4	78	± 1.4	78	± 1.4	78	± 1.4	78	± 1.4	78	± 1.4
14 Burns-1 3	344	85	0.0665	± 0.0027	0.1113	± 0.0052	0.0121	± 0.0003	0.5139	822	± 41.8	107	± 2.4	78	± 0.9	78	± 0.9	78	± 0.9	78	± 0.9	78	± 0.9	78	± 0.9	78	± 0.9	78	± 0.9	78	± 0.9	78	± 0.9
15 Burns-1 33	372	179	0.0519	± 0.0074	0.0871	± 0.0125	0.0122	± 0.0002	0.1160	281	± 163.6	85	± 5.9	78	± 0.6	78	± 0.6	78	± 0.6	78	± 0.6	78	± 0.6	78	± 0.6	78	± 0.6	78	± 0.6	78	± 0.6	78	± 0.6
16 Burns-1 4	1194	338	0.0501	± 0.0019	0.0849	± 0.0036	0.0123	± 0.0002	0.3946	199	± 45.0	83	± 1.7	79	± 0.7	79	± 0.7	79	± 0.7	79	± 0.7	79	± 0.7	79	± 0.7	79	± 0.7	79	± 0.7	79	± 0.7	79	± 0.7
17 Burns-1 48	374	120	0.0625	± 0.0080	0.1060	± 0.0137	0.0123	± 0.0003	0.1811	690	± 136.0	102	± 6.3	79	± 0.9	79	± 0.9	79	± 0.9	79	± 0.9	79	± 0.9	79	± 0.9	79	± 0.9	79	± 0.9	79	± 0.9	79	± 0.9
18 Burns-1 128	249	85	0.0542	± 0.0128	0.0921	± 0.0218	0.0123	± 0.0003	0.1051	379	± 265.1	89	± 10.1	79	± 1.0	79	± 1.0	79	± 1.0	79	± 1.0	79	± 1.0	79	± 1.0	79	± 1.0	79	± 1.0	79	± 1.0	79	± 1.0
19 Burns-1 92	520	165	0.0583	± 0.0053	0.1008	± 0.0093	0.0125	± 0.0002	0.1547	542	± 100.1	98	± 4.3	80	± 0.6	80	± 0.6	80	± 0.6	80	± 0.6	80	± 0.6	80	± 0.6	80	± 0.6	80	± 0.6	80	± 0.6	80	± 0.6
20 Burns-1 63	478	206	0.0529	± 0.0031	0.0921	± 0.0054	0.0126	± 0.0002	0.2173	324	± 65.5	89	± 2.5	81	± 0.4	81	± 0.4	81	± 0.4	81	± 0.4	81	± 0.4	81	± 0.4	81	± 0.4	81	± 0.4	81	± 0.4	81	± 0.4
21 Burns-1 42	177	55	0.0895	± 0.0230	0.1573	± 0.0416	0.0128	± 0.0008	0.2325	1415	± 246.1	148	± 18.3	82	± 2.5	82	± 2.5	82	± 2.5	82	± 2.5	82	± 2.5	82	± 2.5	82	± 2.5	82	± 2.5	82	± 2.5	82	± 2.5
22 Burns-1 16	709	332	0.0491	± 0.0030	0.0872	± 0.0054	0.0129	± 0.0002	0.1960	154	± 71.4	85	± 2.5	82	± 0.5	82	± 0.5	82	± 0.5	82	± 0.5	82	± 0.5	82	± 0.5	82	± 0.5	82	± 0.5	82	± 0.5	82	± 0.5
23 Burns-1 57	593	265	0.0455	± 0.0035	0.0837	± 0.0065	0.0133	± 0.0002	0.1584	0	± 0.0	82	± 3.0	85	± 0.5	85	± 0.5	85	± 0.5	85	± 0.5	85	± 0.5	85	± 0.5	85	± 0.5	85	± 0.5	85	± 0.5	85	± 0.5
24 Burns-1 20	255	90	0.0775	± 0.0135	0.1477	± 0.0261	0.0138	± 0.0004	0.1567	1135	± 173.6	140	± 11.5	88	± 1.2	88	± 1.2	88	± 1.2	88	± 1.2	88	± 1.2	88	± 1.2	88	± 1.2	88	± 1.2	88	± 1.2	88	± 1.2
25 Burns-1 101	1098	495	0.0482	± 0.0025																													

Sample Name: Bailey 1C (Z7)		Isotopic Ratios								Apparent Ages (Ma)							
Analysis	U (ppm)	$\frac{^{206}\text{Pb}}{^{204}\text{Pb}}$	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 2\sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 2\sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 2\sigma$ abs	Rho	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 1\sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 1\sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 1\sigma$ abs	Best Age	$\pm 1\sigma$ abs
74 Burns-1 10	931	1,324	0.0565	± 0.0012	0.5045	± 0.0124	0.0647	± 0.0009	0.5451	474	± 22.9	415	± 4.2	404	± 2.6	404	± 2.6
75 Burns-1 80	244	550	0.0608	± 0.0013	0.7069	± 0.0189	0.0843	± 0.0014	0.6405	634	± 22.1	543	± 5.6	522	± 4.3	522	± 4.3
76 Burns-1 99	1032	1,746	0.0891	± 0.0025	1.8237	± 0.0672	0.1485	± 0.0036	0.6536	1406	± 26.7	1054	± 12.1	893	± 10.0	893	± 10.0
77 Burns-1 12	191	1,132	0.0718	± 0.0012	1.5508	± 0.0303	0.1566	± 0.0017	0.5700	981	± 16.4	951	± 6.0	938	± 4.9	938	± 4.9
78 Burns-1 34	72	398	0.0713	± 0.0030	1.6349	± 0.0712	0.1663	± 0.0019	0.2679	966	± 42.8	984	± 13.7	992	± 5.4	966	± 42.8
79 Burns-1 89	354	2,131	0.0796	± 0.0005	2.2984	± 0.0451	0.2094	± 0.0039	0.9515	1187	± 6.0	1212	± 6.9	1226	± 10.4	1187	± 6.0
80 Burns-1 81	95	693	0.0797	± 0.0028	1.8109	± 0.0726	0.1648	± 0.0032	0.4779	1190	± 34.8	1049	± 13.1	983	± 8.7	1190	± 34.8
81 Burns-1 41	156	936	0.0806	± 0.0008	2.1963	± 0.0304	0.1977	± 0.0019	0.6993	1211	± 9.7	1180	± 4.8	1163	± 5.2	1211	± 9.7
82 Burns-1 73	109	750	0.0835	± 0.0016	2.5546	± 0.1024	0.2219	± 0.0078	0.8806	1281	± 18.5	1288	± 14.6	1292	± 20.7	1281	± 18.5
83 Burns-1 116	291	2,343	0.0860	± 0.0003	2.6012	± 0.0269	0.2194	± 0.0021	0.9329	1338	± 3.6	1301	± 3.8	1279	± 5.6	1338	± 3.6
84 Burns-1 111	232	1,489	0.0879	± 0.0009	2.7890	± 0.0491	0.2302	± 0.0033	0.8262	1379	± 9.5	1353	± 6.6	1336	± 8.8	1379	± 9.5
85 Burns-1 131	275	1,904	0.0884	± 0.0005	2.4254	± 0.0545	0.1990	± 0.0044	0.9734	1391	± 4.9	1250	± 8.1	1170	± 11.7	1391	± 4.9
86 Burns-1 32	251	1,458	0.0885	± 0.0007	2.9025	± 0.0470	0.2379	± 0.0033	0.8645	1393	± 7.8	1383	± 6.1	1376	± 8.7	1393	± 7.8
87 Burns-1 1	574	1,857	0.0888	± 0.0004	2.7442	± 0.0511	0.2240	± 0.0041	0.9700	1401	± 4.3	1341	± 6.9	1303	± 10.7	1401	± 4.3
88 Burns-1 39	250	1,440	0.0889	± 0.0006	3.1289	± 0.0720	0.2553	± 0.0056	0.9563	1402	± 6.4	1440	± 8.9	1466	± 14.4	1402	± 6.4
89 Burns-1 87	865	2,886	0.0901	± 0.0003	3.0691	± 0.0434	0.2471	± 0.0034	0.9661	1427	± 3.5	1425	± 5.4	1424	± 8.7	1427	± 3.5
90 Burns-1 69	535	3,525	0.0902	± 0.0004	3.1558	± 0.0406	0.2538	± 0.0031	0.9353	1429	± 4.3	1446	± 5.0	1458	± 7.9	1429	± 4.3
91 Burns-1 105	71	522	0.0914	± 0.0010	3.3284	± 0.0911	0.2642	± 0.0066	0.9106	1454	± 10.8	1488	± 10.7	1511	± 16.8	1454	± 10.8
92 Burns-1 50	211	1,014	0.0930	± 0.0018	3.2552	± 0.0730	0.2538	± 0.0027	0.4711	1488	± 18.7	1470	± 8.7	1458	± 6.9	1488	± 18.7
93 Burns-1 38	117	613	0.0941	± 0.0013	2.7755	± 0.0686	0.2140	± 0.0043	0.8198	1510	± 13.4	1349	± 9.2	1250	± 11.5	1510	± 13.4
94 Burns-1 97	186	1,321	0.0952	± 0.0008	3.1685	± 0.0585	0.2413	± 0.0040	0.8978	1533	± 7.7	1450	± 7.1	1393	± 10.4	1533	± 7.7
95 Burns-1 67	1436	8,214	0.0973	± 0.0006	3.5320	± 0.0555	0.2633	± 0.0038	0.9185	1573	± 5.8	1534	± 6.2	1507	± 9.7	1573	± 5.8
96 Burns-1 108	1021	4,168	0.0980	± 0.0006	3.0470	± 0.1430	0.2254	± 0.0105	0.9913	1587	± 5.8	1419	± 17.9	1311	± 27.6	1587	± 5.8
97 Burns-1 112	253	2,104	0.0981	± 0.0004	3.5226	± 0.0361	0.2603	± 0.0024	0.9002	1589	± 4.2	1532	± 4.1	1492	± 6.1	1589	± 4.2
98 Burns-1 96	85	560	0.0983	± 0.0041	3.1114	± 0.1386	0.2295	± 0.0033	0.3238	1593	± 39.4	1436	± 17.1	1332	± 8.7	1593	± 39.4
99 Burns-1 123	160	1,523	0.0987	± 0.0011	3.5044	± 0.0852	0.2576	± 0.0056	0.8901	1599	± 10.3	1528	± 9.6	1477	± 14.3	1599	± 10.3
100 Burns-1 45	845	6,311	0.0998	± 0.0003	3.3697	± 0.0538	0.2448	± 0.0039	0.9859	1621	± 2.5	1497	± 6.3	1412	± 10.0	1621	± 2.5
101 Burns-1 134	392	2,161	0.1007	± 0.0006	3.7117	± 0.0836	0.2673	± 0.0058	0.9690	1637	± 5.2	1574	± 9.0	1527	± 14.8	1637	± 5.2
102 Burns-1 61	139	1,058	0.1007	± 0.0009	3.9313	± 0.0596	0.2830	± 0.0034	0.7984	1638	± 8.5	1620	± 6.1	1606	± 8.6	1638	± 8.5
103 Burns-1 95	144	1,419	0.1010	± 0.0008	4.0103	± 0.0553	0.2880	± 0.0033	0.8356	1643	± 7.0	1636	± 5.6	1631	± 8.3	1643	± 7.0
104 Burns-1 2	186	1,318	0.1010	± 0.0040	4.0636	± 0.1685	0.2917	± 0.0031	0.2593	1643	± 37.2	1647	± 16.9	1650	± 7.8	1643	± 37.2
105 Burns-1 93	169	2,022	0.1015	± 0.0008	3.8764	± 0.0541	0.2770	± 0.0032	0.8205	1652	± 7.4	1609	± 5.6	1576	± 8.0	1652	± 7.4
106 Burns-1 7	50	423	0.1017	± 0.0022	4.0999	± 0.1034	0.2923	± 0.0037	0.4959	1656	± 20.3	1654	± 10.3	1653	± 9.1	1656	± 20.3
107 Burns-1 78	452	3,888	0.1019	± 0.0004	3.9870	± 0.0512	0.2838	± 0.0035	0.9635	1659	± 3.2	1632	± 5.2	1610	± 8.8	1659	± 3.2
108 Burns-1 115	213	2,106	0.1022	± 0.0006	3.8857	± 0.0417	0.2757	± 0.0025	0.8576	1665	± 5.1	1611	± 4.3	1569	± 6.4	1665	± 5.1
109 Burns-1 107	33	341	0.1032	± 0.0041	3.8152	± 0.1660	0.2681	± 0.0049	0.4184	1683	± 36.5	1596	± 17.5	1531	± 12.4	1683	± 36.5
110 Burns-1 29	77	548	0.1034	± 0.0014	4.0331	± 0.0867	0.2828	± 0.0047	0.7672	1686	± 12.7	1641	± 8.7	1606	± 11.7	1686	± 12.7
111 Burns-1 51	383	3,173	0.1046	± 0.0004	4.3209	± 0.0555	0.2997	± 0.0037	0.9503	1706	± 3.7	1697	± 5.3	1690	± 9.1	1706	± 3.7
112 Burns-1 62	121	1,238	0.1052	± 0.0013	4.4736	± 0.0754	0.3085	± 0.0034	0.6538	1717	± 11.7	1726	± 7.0	1733	± 8.4	1717	± 11.7
113 Burns-1 15	147	1,391	0.1054	± 0.0006	4.1287	± 0.0528	0.2842	± 0.0032	0.8855	1721	± 5.5	1660	± 5.2	1612	± 8.1	1721	± 5.5
114 Burns-1 24	48	259	0.1163	± 0.0042	5.1896	± 0.2173	0.3236	± 0.0071	0.5222	1900	± 32.1	1851	± 17.8	1807	± 17.2	1900	± 32.1
115 Burns-1 17	472	5,284	0.1508	± 0.0005	8.2570	± 0.0902	0.3970	± 0.0041	0.9503	2355	± 2.9	2260	± 4.9	2155	± 9.5	2355	± 2.9
116 Burns-1 65	122	1,935	0.1853	± 0.0005	14.2230	± 0.1443	0.5566	± 0.0054	0.9563	2701	± 2.4	2765	± 4.8	2853	± 11.2	2701	± 2.4

Sample Name: GM-C-051408-8 (Z9)		Isotopic Ratios								Apparent Ages (Ma)							
Analysis	U (ppm)	$\frac{^{206}\text{Pb}}{^{204}\text{Pb}}$	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 2\sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 2\sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 2\sigma$ abs	Rho	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 1\sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 1\sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 1\sigma$ abs	Best Age	$\pm 1\sigma$ abs

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Sample Name: Bailey 1C (Z7)		Isotopic Ratios								Apparent Ages (Ma)								
Analysis	U (ppm)	$\frac{^{206}\text{Pb}}{^{204}\text{Pb}}$	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 2\sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 2\sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 2\sigma$ abs	Rho	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 1\sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 1\sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 1\sigma$ abs	Best Age	$\pm 1\sigma$ abs	
24 C-051408-8 43	390	408	0.0503	± 0.0031	0.1717	± 0.0123	0.0247	± 0.0009	0.5317	211	± 70.3	161	± 5.3	157	± 3.0	157	± 3.0	
25 C-051408-8 91	372	350	0.0499	± 0.0028	0.1840	± 0.0107	0.0267	± 0.0004	0.2765	189	± 64.9	171	± 4.6	170	± 1.3	170	± 1.3	
26 C-051408-8 90	300	343	0.0541	± 0.0029	0.2272	± 0.0146	0.0304	± 0.0011	0.5623	376	± 59.8	208	± 6.0	193	± 3.4	193	± 3.4	
27 C-051408-8 110	130	122	0.0538	± 0.0088	0.2338	± 0.0386	0.0315	± 0.0008	0.1470	361	± 184.2	213	± 15.9	200	± 2.4	200	± 2.4	
28 C-051408-8 124	767	884	0.0904	± 0.0010	0.4154	± 0.0778	0.0333	± 0.0062	0.9984	1435	± 10.1	353	± 27.9	211	± 19.4	211	± 19.4	
29 C-051408-8 19	323	365	0.0869	± 0.0025	0.4132	± 0.0161	0.0345	± 0.0009	0.6718	1359	± 27.9	351	± 5.8	218	± 2.8	218	± 2.8	
30 C-051408-8 132	286	223	0.0603	± 0.0041	0.2894	± 0.0240	0.0348	± 0.0016	0.5620	615	± 74.1	258	± 9.5	221	± 5.1	221	± 5.1	
31 C-051408-8 80	1922	677	0.0880	± 0.0051	0.4615	± 0.0285	0.0381	± 0.0008	0.3284	1382	± 56.1	385	± 9.9	241	± 2.4	241	± 2.4	
32 C-051408-8 128	101	139	0.0655	± 0.0099	0.3877	± 0.0693	0.0429	± 0.0041	0.5337	791	± 158.7	333	± 25.4	271	± 12.7	271	± 12.7	
33 C-051408-8 116	250	322	0.0673	± 0.0032	0.4506	± 0.0362	0.0486	± 0.0032	0.8107	846	± 49.0	378	± 12.7	306	± 9.7	306	± 9.7	
34 C-051408-8 31	285	349	0.0597	± 0.0018	0.4033	± 0.0249	0.0490	± 0.0026	0.8710	592	± 32.9	344	± 9.0	308	± 8.1	308	± 8.1	
35 C-051408-8 35	490	1,316	0.0616	± 0.0021	0.5809	± 0.0310	0.0684	± 0.0028	0.7738	661	± 36.2	465	± 9.9	426	± 8.5	426	± 8.5	
36 C-051408-8 122	161	358	0.0605	± 0.0031	0.6623	± 0.0356	0.0795	± 0.0012	0.2778	620	± 55.7	516	± 10.9	493	± 3.5	493	± 3.5	
37 C-051408-8 147	57	263	0.0723	± 0.0049	1.1273	± 0.0974	0.1131	± 0.0060	0.6174	994	± 69.1	766	± 23.2	691	± 17.5	691	± 17.5	
38 C-051408-8 82	333	707	0.0944	± 0.0023	1.5537	± 0.0869	0.1193	± 0.0060	0.9008	1517	± 22.9	952	± 17.3	727	± 17.3	727	± 17.3	
39 C-051408-8 78	138	521	0.0739	± 0.0015	1.3187	± 0.1453	0.1293	± 0.0140	0.9826	1040	± 20.7	854	± 31.8	784	± 40.0	784	± 40.0	
40 C-051408-8 131	1161	4,113	0.0862	± 0.0006	1.6215	± 0.0724	0.1364	± 0.0060	0.9880	1343	± 6.7	979	± 14.0	824	± 17.1	824	± 17.1	
41 C-051408-8 121	1362	4,095	0.0760	± 0.0004	1.4475	± 0.0694	0.1381	± 0.0066	0.9953	1096	± 4.6	909	± 14.4	834	± 18.7	834	± 18.7	
42 C-051408-8 142	94	458	0.0666	± 0.0713	1.3473	± 1.4455	0.1467	± 0.0101	0.0639	826	#####	866	± 312.6	882	± 28.3	882	± 28.3	
43 C-051408-8 84	45	263	0.0710	± 0.0044	1.5826	± 0.1056	0.1616	± 0.0040	0.3705	958	± 63.3	963	± 20.8	966	± 11.1	958	± 63.3	
44 C-051408-8 20	351	2,222	0.0735	± 0.0005	1.6674	± 0.0278	0.1646	± 0.0025	0.9021	1026	± 7.3	996	± 5.3	983	± 6.9	1026	± 7.3	
45 C-051408-8 79	192	1,223	0.0785	± 0.0007	1.8484	± 0.0232	0.1707	± 0.0015	0.7223	1160	± 8.6	1063	± 4.1	1016	± 4.3	1160	± 8.6	
46 C-051408-8 42	165	1,284	0.0798	± 0.0014	2.1969	± 0.1382	0.1997	± 0.0121	0.9621	1191	± 16.9	1180	± 22.0	1174	± 32.5	1191	± 16.9	
47 C-051408-8 50	45	397	0.0860	± 0.0031	2.7509	± 0.1243	0.2320	± 0.0064	0.6093	1338	± 34.6	1342	± 16.8	1345	± 16.7	1338	± 34.6	
48 C-051408-8 71	275	2,194	0.0879	± 0.0005	2.5829	± 0.0404	0.2130	± 0.0031	0.9166	1381	± 6.0	1296	± 5.7	1245	± 8.1	1381	± 6.0	
49 C-051408-8 55	536	2,924	0.0893	± 0.0004	3.1914	± 0.1824	0.2591	± 0.0148	0.9967	1411	± 4.4	1455	± 22.1	1485	± 37.8	1411	± 4.4	
50 C-051408-8 24	84	806	0.0899	± 0.0011	2.9463	± 0.0453	0.2376	± 0.0023	0.6434	1424	± 11.2	1394	± 5.8	1374	± 6.1	1424	± 11.2	
51 C-051408-8 40	557	7,155	0.0908	± 0.0003	3.0559	± 0.0367	0.2442	± 0.0028	0.9485	1442	± 3.6	1422	± 4.6	1409	± 7.2	1442	± 3.6	
52 C-051408-8 94	146	1,069	0.0911	± 0.0007	2.9073	± 0.0658	0.2316	± 0.0049	0.9370	1448	± 7.5	1384	± 8.6	1343	± 12.9	1448	± 7.5	
53 C-051408-8 99	161	1,304	0.0914	± 0.0007	2.9407	± 0.0561	0.2334	± 0.0041	0.9127	1454	± 7.4	1392	± 7.2	1352	± 10.6	1454	± 7.4	
54 C-051408-8 9	159	1,120	0.0917	± 0.0017	3.1614	± 0.1576	0.2502	± 0.0115	0.9240	1460	± 18.1	1448	± 19.2	1439	± 29.7	1460	± 18.1	
55 C-051408-8 41	1283	14,859	0.0917	± 0.0002	3.1546	± 0.0375	0.2495	± 0.0029	0.9817	1461	± 2.1	1446	± 4.6	1436	± 7.5	1461	± 2.1	
56 C-051408-8 15	105	939	0.0917	± 0.0012	2.9393	± 0.0475	0.2324	± 0.0021	0.5470	1462	± 12.9	1392	± 6.1	1347	± 5.4	1462	± 12.9	
57 C-051408-8 140	193	1,474	0.0929	± 0.0022	3.0122	± 0.0957	0.2351	± 0.0049	0.6526	1487	± 22.8	1411	± 12.1	1361	± 12.7	1487	± 22.8	
58 C-051408-8 96	57	519	0.0935	± 0.0018	2.8328	± 0.0606	0.2197	± 0.0022	0.4613	1498	± 17.9	1364	± 8.0	1280	± 5.7	1498	± 17.9	
59 C-051408-8 21	240	2,668	0.0947	± 0.0049	3.0545	± 0.1692	0.2339	± 0.0046	0.3562	1522	± 48.8	1421	± 21.2	1355	± 12.1	1522	± 48.8	
60 C-051408-8 54	245	2,034	0.0964	± 0.0010	3.1909	± 0.0558	0.2400	± 0.0034	0.8148	1556	± 9.5	1455	± 6.8	1387	± 8.9	1556	± 9.5	
61 C-051408-8 118	274	2,588	0.1021	± 0.0003	3.9054	± 0.0576	0.2774	± 0.0040	0.9748	1663	± 3.0	1615	± 6.0	1578	± 10.1	1663	± 3.0	
62 C-051408-8 134	156	1,415	0.1022	± 0.0007	4.2489	± 0.1093	0.3014	± 0.0075	0.9626	1665	± 6.4	1684	± 10.6	1698	± 18.5	1665	± 6.4	
63 C-051408-8 64	47	119	0.1025	± 0.0030	4.5808	± 0.2996	0.3243	± 0.0189	0.8904	1669	± 27.5	1746	± 27.3	1810	± 46.0	1669	± 27.5	
64 C-051408-8 89	125	766	0.1025	± 0.0006	3.9158	± 0.1296	0.2770	± 0.0090	0.9853	1671	± 5.2	1617	± 13.4	1576	± 22.8	1671	± 5.2	
65 C-051408-8 13	297	2,643	0.1028	± 0.0004	4.0468	± 0.0504	0.2854	± 0.0034	0.9601	1676	± 3.2	1644	± 5.1	1618	± 8.6	1676	± 3.2	
66 C-051408-8 75	302	2,499	0.1031	± 0.0011	4.1607	± 0.0863	0.2927	± 0.0051	0.8476	1681	± 10.2	1666	± 8.5	1655	± 12.8	1681	± 10.2	
67 C-051408-8 18	NA	9,095	0.1038	± 0.0010	3.4632	± 0.1167	0.2419	± 0.0078	0.9587	1694	± 8.8	1519	± 13.3	1397	± 20.3	1694	± 8.8	
68 C-051408-8 49	498	4,198	0.1042	± 0.0003	3.5785	± 0.05												

Sample Name:	Bailey 1C (Z7)	Isotopic Ratios											Apparent Ages (Ma)							
Analysis	U (ppm)	$\frac{^{206}\text{Pb}}{^{204}\text{Pb}}$	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 2 \sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 2 \sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 2 \sigma$ abs	Rho	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 1 \sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 1 \sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 1 \sigma$ abs	Best Age	$\pm 1 \sigma$ abs			
Sample Name: GM-C-051508-1 (Z8)											Isotopic Ratios								Apparent Ages (Ma)	
Analysis	U (ppm)	$\frac{^{206}\text{Pb}}{^{204}\text{Pb}}$	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 2 \sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 2 \sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 2 \sigma$ abs	Rho	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 1 \sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 1 \sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 1 \sigma$ abs	Best Age	$\pm 1 \sigma$ abs			
1 C-051508-1 27	515	205	0.0586	± 0.0048	0.0881	± 0.0078	0.0109	± 0.0004	0.3810	551	± 89.7	86	± 3.7	70	± 1.2	70	± 1.2			
2 C-051508-1 84	318	144	0.0694	± 0.0100	0.1059	± 0.0160	0.0111	± 0.0005	0.2841	909	± 149.2	102	± 7.3	71	± 1.5	71	± 1.5			
3 C-051508-1 148	481	248	0.0614	± 0.0050	0.0937	± 0.0083	0.0111	± 0.0004	0.3635	653	± 88.0	91	± 3.8	71	± 1.1	71	± 1.1			
4 C-051508-1 65	776	340	0.0513	± 0.0022	0.0785	± 0.0042	0.0111	± 0.0004	0.5921	253	± 49.6	77	± 2.0	71	± 1.1	71	± 1.1			
5 C-051508-1 54	220	64	0.0700	± 0.0091	0.1084	± 0.0160	0.0112	± 0.0008	0.4726	929	± 133.2	105	± 7.3	72	± 2.5	72	± 2.5			
6 C-051508-1 30	158	62	0.0504	± 0.0131	0.0788	± 0.0206	0.0114	± 0.0004	0.1437	211	± 300.3	77	± 9.7	73	± 1.4	73	± 1.4			
7 C-051508-1 50	236	82	0.0457	± 0.0070	0.0722	± 0.0117	0.0115	± 0.0006	0.3361	0	± 0.0	71	± 5.5	73	± 2.0	73	± 2.0			
8 C-051508-1 34	117	51	0.0640	± 0.0119	0.1045	± 0.0236	0.0118	± 0.0015	0.5662	741	± 196.6	101	± 10.8	76	± 4.8	76	± 4.8			
9 C-051508-1 78	294	164	0.0612	± 0.0074	0.1034	± 0.0135	0.0123	± 0.0006	0.3619	646	± 130.8	100	± 6.2	79	± 1.8	79	± 1.8			
10 C-051508-1 125	127	78	0.0531	± 0.0106	0.0912	± 0.0186	0.0124	± 0.0005	0.2032	334	± 226.8	89	± 8.7	80	± 1.6	80	± 1.6			
11 C-051508-1 4	232	78	0.0454	± 0.0062	0.0813	± 0.0114	0.0130	± 0.0004	0.2398	0	± 0.0	79	± 5.4	83	± 1.4	83	± 1.4			
12 C-051508-1 10	260	63	0.0539	± 0.0048	0.0965	± 0.0092	0.0130	± 0.0004	0.3559	366	± 100.7	93	± 4.3	83	± 1.4	83	± 1.4			
13 C-051508-1 15	321	184	0.0479	± 0.0036	0.0941	± 0.0074	0.0143	± 0.0003	0.3064	93	± 89.0	91	± 3.4	91	± 1.1	91	± 1.1			
14 C-051508-1 128	383	271	0.0533	± 0.0038	0.1054	± 0.0078	0.0143	± 0.0002	0.2145	341	± 81.7	102	± 3.6	92	± 0.7	92	± 0.7			
15 C-051508-1 103	175	93	0.0547	± 0.0075	0.1094	± 0.0154	0.0145	± 0.0005	0.2239	398	± 153.8	105	± 7.0	93	± 1.5	93	± 1.5			
16 C-051508-1 141	151	107	0.0674	± 0.0107	0.1374	± 0.0226	0.0148	± 0.0007	0.2691	852	± 165.0	131	± 10.1	95	± 2.1	95	± 2.1			
17 C-051508-1 122	239	178	0.0494	± 0.0061	0.1032	± 0.0129	0.0151	± 0.0003	0.1763	167	± 143.8	100	± 5.9	97	± 1.1	97	± 1.1			
18 C-051508-1 2	312	98	0.0580	± 0.0039	0.1227	± 0.0088	0.0154	± 0.0004	0.3356	528	± 74.1	118	± 4.0	98	± 1.2	98	± 1.2			
19 C-051508-1 121	210	133	0.0621	± 0.0119	0.1321	± 0.0264	0.0154	± 0.0009	0.2975	679	± 204.3	126	± 11.9	99	± 2.9	99	± 2.9			
20 C-051508-1 100	275	108	0.0884	± 0.0159	0.1887	± 0.0364	0.0155	± 0.0011	0.3581	1390	± 172.7	176	± 15.5	99	± 3.4	99	± 3.4			
21 C-051508-1 127	460	318	0.0543	± 0.0025	0.1180	± 0.0063	0.0158	± 0.0004	0.5321	384	± 50.7	113	± 2.9	101	± 1.4	101	± 1.4			
22 C-051508-1 91	164	112	0.0523	± 0.0065	0.1152	± 0.0149	0.0160	± 0.0005	0.2569	299	± 142.5	111	± 6.8	102	± 1.7	102	± 1.7			
23 C-051508-1 88	400	202	0.0795	± 0.0063	0.1766	± 0.0148	0.0161	± 0.0005	0.3366	1185	± 78.0	165	± 6.4	103	± 1.4	103	± 1.4			
24 C-051508-1 1	647	185	0.0507	± 0.0016	0.1147	± 0.0059	0.0164	± 0.0007	0.7837	229	± 37.0	110	± 2.7	105	± 2.1	105	± 2.1			
25 C-051508-1 147	87	61	0.0766	± 0.0167	0.1829	± 0.0412	0.0173	± 0.0010	0.2476	1110	± 217.9	171	± 17.7	111	± 3.1	111	± 3.1			
26 C-051508-1 115	354	229	0.0571	± 0.0062	0.1409	± 0.0159	0.0179	± 0.0005	0.2610	497	± 119.8	134	± 7.1	114	± 1.7	114	± 1.7			
27 C-051508-1 71	83	68	0.0682	± 0.0133	0.1720	± 0.0343	0.0183	± 0.0008	0.2232	874	± 201.3	161	± 14.9	117	± 2.6	117	± 2.6			
28 C-051508-1 45	250	97	0.0625	± 0.0044	0.1610	± 0.0130	0.0187	± 0.0007	0.4943	691	± 74.8	152	± 5.7	119	± 2.4	119	± 2.4			
29 C-051508-1 21	430	166	0.0891	± 0.0145	0.2338	± 0.0400	0.0190	± 0.0010	0.3124	1406	± 155.6	213	± 16.5	122	± 3.2	122	± 3.2			
30 C-051508-1 106	157	126	0.0524	± 0.0053	0.1443	± 0.0152	0.0200	± 0.0006	0.2639	301	± 115.8	137	± 6.7	128	± 1.8	128	± 1.8			
31 C-051508-1 29	272	186	0.0514	± 0.0035	0.1418	± 0.0117	0.0200	± 0.0010	0.5810	259	± 77.2	135	± 5.2	128	± 3.0	128	± 3.0			
32 C-051508-1 136	30	30	0.0647	± 0.0439	0.1799	± 0.1230	0.0202	± 0.0018	0.1284	764	± 714.6	168	± 52.9	129	± 5.6	129	± 5.6			
33 C-051508-1 140	210	191	0.0638	± 0.0047	0.1784	± 0.0144	0.0203	± 0.0007	0.4145	736	± 77.8	167	± 6.2	129	± 2.1	129	± 2.1			
34 C-051508-1 113	268	220	0.0602	± 0.0086	0.1716	± 0.0254	0.0207	± 0.0007	0.2375	612	± 155.1	161	± 11.0	132	± 2.3	132	± 2.3			
35 C-051508-1 57	72	49	0.0848	± 0.0173	0.2419	± 0.0516	0.0207	± 0.0013	0.2895	1311	± 198.3	220	± 21.1	132	± 4.0	132	± 4.0			
36 C-051508-1 137	44	46	0.0639	± 0.0244	0.1890	± 0.0724	0.0214	± 0.0008	0.0936	739	± 403.4	176	± 30.9	137	± 2.4	137	± 2.4			
37 C-051508-1 46	310	223	0.0563	± 0.0048	0.1673	± 0.0157	0.0215	± 0.0009	0.4312	464	± 94.1	157	± 6.8	137	± 2.8	137	± 2.8			
38 C-051508-1 105	353	176	0.0590	± 0.0052	0.1779	± 0.0161	0.0219	± 0.0005	0.2545	569	± 95.4	166	± 7.0	139	± 1.6	139	± 1.6			
39 C-051508-1 58	78	56	0.0784	± 0.0081	0.2413	± 0.0259	0.0223	± 0.0006	0.2580	1158	± 102.9	219	± 10.6	142	± 1.9	142	± 1.9			
40 C-051508-1 39	45	31	0.0817	± 0.0172	0.2533	± 0.0547	0.0225	± 0.0011	0.2200	1238	± 206.5	229	± 22.2	143	± 3.4	143	± 3.4			
41 C-051508-1 108	78	77	0.0550	± 0.0120	0.1704	± 0.0395	0.0225	± 0.0017	0.3241	411	± 244.8	160	± 17.1	143	± 5.3	143	± 5.3			
42 C-051508-1 149	67	77	0.0793	± 0.0116	0.2497	± 0.0382	0.0228	± 0.0010	0.2976	1180	± 144.4	226	± 15.5	146	± 3.3	146	± 3.3			
43 C-051508-1 126	145	146	0.0505	± 0.0065	0.1593	± 0.0245	0.0229	± 0.0019	0.5389	218	$\pm 149.9</$									

Isotopic RatiosApparent Ages (Ma)

Analysis	U (ppm)	$\frac{^{206}\text{Pb}}{^{204}\text{Pb}}$	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 2 \sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 2 \sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 2 \sigma$ abs	Rho	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 1 \sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 1 \sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 1 \sigma$ abs	Best Age	$\pm 1 \sigma$ abs
70 C-051508-1 13	192	853	0.0828	± 0.0007	2.4018	± 0.1483	0.2103	± 0.0129	0.9918	1265	± 7.7	1243	± 22.1	1230	± 34.3	1265	± 7.7
71 C-051508-1 93	50	464	0.0865	± 0.0029	2.7727	± 0.1469	0.2326	± 0.0094	0.7664	1349	± 32.9	1348	± 19.8	1348	± 24.7	1349	± 32.9
72 C-051508-1 124	64	562	0.0879	± 0.0040	2.4680	± 0.1528	0.2036	± 0.0084	0.6692	1380	± 44.2	1263	± 22.4	1195	± 22.6	1380	± 44.2
73 C-051508-1 130	11	122	0.0894	± 0.0071	2.7291	± 0.2447	0.2214	± 0.0092	0.4620	1413	± 76.1	1336	± 33.3	1289	± 24.2	1413	± 76.1
74 C-051508-1 72	95	801	0.0931	± 0.0014	3.4394	± 0.3008	0.2679	± 0.0231	0.9842	1490	± 14.6	1513	± 34.4	1530	± 58.6	1490	± 14.6
75 C-051508-1 28	26	172	0.0938	± 0.0071	3.4569	± 0.2989	0.2672	± 0.0111	0.4806	1505	± 71.6	1517	± 34.0	1526	± 28.2	1505	± 71.6
76 C-051508-1 80	603	2,558	0.0946	± 0.0003	3.5767	± 0.1175	0.2742	± 0.0090	0.9964	1520	± 2.6	1544	± 13.0	1562	± 22.7	1520	± 2.6
77 C-051508-1 47	759	347	0.0949	± 0.0007	2.8743	± 0.0619	0.2197	± 0.0044	0.9373	1526	± 7.1	1375	± 8.1	1280	± 11.7	1526	± 7.1
78 C-051508-1 144	213	1,465	0.0982	± 0.0038	3.7032	± 0.1753	0.2736	± 0.0076	0.5827	1589	± 35.9	1572	± 18.9	1559	± 19.1	1589	± 35.9
79 C-051508-1 49	135	1,077	0.1029	± 0.0008	3.8379	± 0.3316	0.2706	± 0.0233	0.9964	1676	± 6.8	1601	± 34.8	1544	± 59.1	1676	± 6.8
80 C-051508-1 53	120	650	0.1041	± 0.0061	3.9201	± 0.2453	0.2732	± 0.0063	0.3681	1698	± 53.6	1618	± 25.3	1557	± 15.9	1698	± 53.6
81 C-051508-1 75	219	2,909	0.1045	± 0.0003	4.1063	± 0.0412	0.2851	± 0.0027	0.9505	1705	± 2.9	1656	± 4.1	1617	± 6.8	1705	± 2.9
82 C-051508-1 36	461	2,993	0.1049	± 0.0004	4.0246	± 0.5303	0.2784	± 0.0367	0.9996	1712	± 3.3	1639	± 53.6	1583	± 92.4	1712	± 3.3
83 C-051508-1 81	106	1,056	0.1049	± 0.0009	3.4795	± 0.0588	0.2405	± 0.0034	0.8456	1713	± 8.3	1523	± 6.7	1389	± 8.9	1713	± 8.3
84 C-051508-1 95	213	2,439	0.1059	± 0.0004	5.0346	± 0.1390	0.3447	± 0.0094	0.9922	1730	± 3.2	1825	± 11.7	1909	± 22.6	1730	± 3.2
85 C-051508-1 110	103	495	0.1112	± 0.0022	4.9680	± 0.3537	0.3242	± 0.0222	0.9618	1818	± 17.7	1814	± 30.1	1810	± 54.0	1818	± 17.7
86 C-051508-1 94	35	214	0.1398	± 0.0166	6.6214	± 1.6535	0.3434	± 0.0754	0.8797	2225	± 102.8	2062	± 110.1	1903	± 181.0	2225	± 102.8

Isotopic RatiosApparent Ages (Ma)

Analysis	U (ppm)	$\frac{^{206}\text{Pb}}{^{204}\text{Pb}}$	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 2 \sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 2 \sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 2 \sigma$ abs	Rho	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 1 \sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 1 \sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 1 \sigma$ abs	Best Age	$\pm 1 \sigma$ abs
1 C-051608-5 37	6806	229	0.0709	± 0.0115	1.005	± 0.0186	0.0103	± 0.0003	0.3397	955	± 165.9	97	± 8.6	66	± 1.1	66	± 1.1
2 C-051608-5 125	954	58,581	0.0830	± 0.0096	0.1223	± 0.0154	0.0107	± 0.0005	0.3923	1269	± 113.3	117	± 7.0	69	± 1.7	69	± 1.7
3 C-051608-5 132	1297	62,148	0.0613	± 0.0035	0.1020	± 0.0067	0.0121	± 0.0004	0.5094	650	± 60.8	99	± 3.1	77	± 1.3	77	± 1.3
4 C-051608-5 21	2103	196	0.0631	± 0.0053	0.1407	± 0.0196	0.0162	± 0.0018	0.9792	711	± 89.4	134	± 8.7	103	± 5.7	103	± 5.7
5 C-051608-5 81	1342	41,999	0.0850	± 0.0031	0.1963	± 0.0117	0.0167	± 0.0008	0.7909	1315	± 35.3	182	± 5.0	107	± 2.5	107	± 2.5
6 C-051608-5 128	905	59,841	0.0551	± 0.0040	0.1411	± 0.0108	0.0186	± 0.0004	0.3098	414	± 81.3	134	± 4.8	119	± 1.4	119	± 1.4
7 C-051608-5 124	5665	1,304	0.0857	± 0.0012	0.2197	± 0.0043	0.0186	± 0.0002	0.7069	1331	± 13.1	202	± 1.8	119	± 0.7	119	± 0.7
8 C-051608-5 18	2052	212	0.0855	± 0.0034	0.3200	± 0.0201	0.0271	± 0.0013	0.7694	1328	± 38.8	282	± 7.7	173	± 4.1	173	± 4.1
9 C-051608-5 67	986	52,229	0.0751	± 0.0020	0.3040	± 0.0122	0.0293	± 0.0009	0.7518	1072	± 26.5	270	± 4.7	186	± 2.8	186	± 2.8
10 C-051608-5 120	571	60,934	0.0543	± 0.0026	0.2223	± 0.0112	0.0297	± 0.0004	0.2473	383	± 54.6	204	± 4.6	189	± 1.1	189	± 1.1
11 C-051608-5 57	485	56,414	0.0646	± 0.0106	0.2886	± 0.0489	0.0324	± 0.0014	0.2542	762	± 172.8	257	± 19.3	206	± 4.3	206	± 4.3
12 C-051608-5 140	628	66,763	0.0562	± 0.0018	0.2554	± 0.0116	0.0329	± 0.0011	0.7091	461	± 35.5	231	± 4.7	209	± 3.3	209	± 3.3
13 C-051608-5 71	860	49,306	0.0842	± 0.0043	0.3889	± 0.0251	0.0335	± 0.0013	0.6192	1297	± 49.2	334	± 9.2	212	± 4.2	212	± 4.2
14 C-051608-5 84	706	41,998	0.0667	± 0.0056	0.3461	± 0.0314	0.0377	± 0.0013	0.3862	827	± 87.4	302	± 11.9	238	± 4.1	238	± 4.1
15 C-051608-5 92	501	41,993	0.0577	± 0.0014	0.7145	± 0.0293	0.0899	± 0.0029	0.7932	517	± 27.4	547	± 8.7	555	± 8.6	555	± 8.6
16 C-051608-5 82	652	41,999	0.0816	± 0.0006	1.2240	± 0.0414	0.1088	± 0.0036	0.9760	1235	± 7.2	812	± 9.4	666	± 10.4	666	± 10.4
17 C-051608-5 80	5445	5,162	0.0918	± 0.0003	1.8088	± 0.0648	0.1429	± 0.0050	0.9966	1463	± 2.8	1049	± 11.7	861	± 14.0	861	± 14.0
18 C-051608-5 83	153	41,998	0.0708	± 0.0014	1.9822	± 0.0743	0.2031	± 0.0065	0.8563	951	± 19.8	1109	± 12.6	1192	± 17.4	951	± 19.8
19 C-051608-5 34	307	1,177	0.0655	± 0.0013	1.5141	± 0.0530	0.1677	± 0.0040	0.8124	790	± 21.1	936	± 10.7	999	± 11.1	999	± 11.1
20 C-051608-5 90	3006	19,393	0.0799	± 0.0005	2.1058	± 0.0816	0.1912	± 0.0072	0.9854	1194	± 6.5	1151	± 13.3	1128	± 19.6	1194	± 6.5
21 C-051608-5 134	639	63,302	0.0807	± 0.0003	2.5453	± 0.0441	0.2286	± 0.0039	0.9810	1215	± 3.3	1285	± 6.3	1327	± 10.2	1215	± 3.3
22 C-051608-5 69	647	50,768	0.0843	± 0.0008	2.5039	± 0.0546	0.2153	± 0.0042	0.8996	1300	± 9.2	1273	± 7.9	1257	± 11.2	1300	± 9.2
23 C-051608-5 32	760	1,051	0.0845	± 0.0012	2.1920	± 0.1366	0.1882	± 0.0098	0.9716	1304	± 14.1	1178	± 2				

Sample Name:	Bailey 1C (Z7)	Isotopic Ratios											Apparent Ages (Ma)							
Analysis	U (ppm)	$\frac{^{206}\text{Pb}}{^{204}\text{Pb}}$	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 2 \sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 2 \sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 2 \sigma$ abs	Rho	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 1 \sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 1 \sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 1 \sigma$ abs	Best Age	$\pm 1 \sigma$ abs			
50 C-051608-5 98	107	8,915	0.1390	± 0.0016	7.5792	± 0.2102	0.3955	± 0.0099	0.9152	2215	± 9.7	2182	± 12.4	2148	± 22.9	2215	± 9.7			
51 C-051608-5 99	573	1,385	0.1436	± 0.0014	7.6909	± 0.2193	0.3883	± 0.0098	0.9392	2271	± 8.4	2196	± 12.8	2115	± 22.7	2271	± 8.4			
52 C-051608-5 93	39	41,992	0.1524	± 0.0023	8.9932	± 0.5365	0.4281	± 0.0247	0.9675	2372	± 12.9	2337	± 27.3	2297	± 55.7	2372	± 12.9			
53 C-051608-5 10	205	173	0.2071	± 0.0061	16.4275	± 0.6409	0.5753	± 0.0146	0.6495	2883	± 24.1	2902	± 18.7	2929	± 29.8	2883	± 24.1			
Sample Name:	GM-W-051408-1 (Z4)	Isotopic Ratios											Apparent Ages (Ma)							
Analysis	U (ppm)	$\frac{^{206}\text{Pb}}{^{204}\text{Pb}}$	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 2 \sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 2 \sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 2 \sigma$ abs	Rho	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 1 \sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 1 \sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 1 \sigma$ abs	Best Age	$\pm 1 \sigma$ abs			
1 W-051408-8 69	721	52,053	0.0756	± 0.0054	0.1817	± 0.0145	0.0174	± 0.0006	0.4245	1086	± 72.2	170	± 6.2	111	± 1.9	111	± 1.9			
2 W-051408-8 132	1687	51,928	0.0528	± 0.0013	0.1487	± 0.0049	0.0204	± 0.0004	0.6634	318	± 28.1	141	± 2.2	130	± 1.4	130	± 1.4			
3 W-051408-8 104	408	51,186	0.0945	± 0.0049	0.2834	± 0.0219	0.0218	± 0.0012	0.7394	1518	± 49.0	253	± 8.7	139	± 3.9	139	± 3.9			
4 W-051408-8 101	1161	51,181	0.0500	± 0.0008	0.1707	± 0.0049	0.0247	± 0.0006	0.8068	197	± 19.6	160	± 2.1	158	± 1.8	158	± 1.8			
5 W-051408-8 14	1702	866	0.0754	± 0.0041	0.2624	± 0.0306	0.0253	± 0.0021	0.8762	1078	± 55.1	237	± 12.3	161	± 6.7	161	± 6.7			
6 W-051408-8 24	863	55,264	0.0603	± 0.0016	0.2611	± 0.0083	0.0314	± 0.0005	0.5110	614	± 29.4	236	± 3.3	199	± 1.6	199	± 1.6			
7 W-051408-8 43	282	51,244	0.0625	± 0.0041	0.3449	± 0.0258	0.0400	± 0.0014	0.4861	693	± 69.8	301	± 9.8	253	± 4.5	253	± 4.5			
8 W-051408-8 68	330	52,145	0.0901	± 0.0035	0.5875	± 0.0586	0.0473	± 0.0043	0.9195	1428	± 37.4	469	± 18.8	298	± 13.3	298	± 13.3			
9 W-051408-8 90	366	51,191	0.0757	± 0.0013	0.8078	± 0.0200	0.0774	± 0.0014	0.7384	1087	± 16.7	601	± 5.6	481	± 4.2	481	± 4.2			
10 W-051408-8 39	576	9,638	0.0825	± 0.0052	1.0947	± 0.1058	0.0962	± 0.0069	0.7520	1258	± 62.2	751	± 25.6	592	± 20.2	592	± 20.2			
11 W-051408-8 73	393	51,686	0.0650	± 0.0012	0.9554	± 0.0508	0.1066	± 0.0053	0.9428	775	± 18.6	681	± 13.2	653	± 15.5	653	± 15.5			
12 W-051408-8 63	184	399	0.0645	± 0.0011	0.9777	± 0.1089	0.1100	± 0.0077	0.9868	757	± 18.2	692	± 27.9	673	± 22.5	673	± 22.5			
13 W-051408-8 49	1175	11,715	0.0731	± 0.0003	1.4470	± 0.0741	0.1436	± 0.0072	0.9973	1016	± 3.8	909	± 15.4	865	± 20.3	865	± 20.3			
14 W-051408-8 40	1634	51,998	0.0869	± 0.0003	1.7317	± 0.0651	0.1445	± 0.0054	0.9969	1358	± 2.9	1020	± 12.1	870	± 15.2	870	± 15.2			
15 W-051408-8 71	310	51,869	0.0766	± 0.0013	1.7187	± 0.0620	0.1627	± 0.0052	0.8875	1111	± 16.6	1016	± 11.6	972	± 14.4	1111	± 16.6			
16 W-051408-8 107	147	50,805	0.0858	± 0.0016	3.0696	± 0.1667	0.2593	± 0.0132	0.9414	1335	± 17.7	1425	± 20.8	1487	± 33.8	1335	± 17.7			
17 W-051408-8 121	850	8,422	0.0879	± 0.0003	2.5310	± 0.0322	0.2087	± 0.0025	0.9621	1381	± 3.3	1281	± 4.6	1222	± 6.7	1381	± 3.3			
18 W-051408-8 103	694	51,184	0.0883	± 0.0003	3.2682	± 0.0821	0.2684	± 0.0067	0.9927	1390	± 2.9	1474	± 9.8	1532	± 16.9	1390	± 2.9			
19 W-051408-8 80	385	51,332	0.0889	± 0.0003	3.1174	± 0.0888	0.2544	± 0.0072	0.9922	1402	± 3.4	1437	± 10.9	1461	± 18.4	1402	± 3.4			
20 W-051408-8 131	707	51,609	0.0890	± 0.0004	2.7978	± 0.0539	0.2279	± 0.0043	0.9774	1405	± 3.9	1355	± 7.2	1323	± 11.2	1405	± 3.9			
21 W-051408-8 52	188	51,536	0.0914	± 0.0011	3.6514	± 0.1027	0.2897	± 0.0074	0.9107	1455	± 11.0	1561	± 11.2	1640	± 18.5	1455	± 11.0			
22 W-051408-8 55	502	51,984	0.0924	± 0.0005	3.2396	± 0.0898	0.2543	± 0.0069	0.9797	1476	± 5.3	1467	± 10.7	1461	± 17.7	1476	± 5.3			
23 W-051408-8 67	374	52,329	0.0933	± 0.0008	3.0189	± 0.0836	0.2346	± 0.0062	0.9541	1495	± 7.8	1412	± 10.6	1358	± 16.1	1495	± 7.8			
24 W-051408-8 45	184	50,741	0.0944	± 0.0007	3.6493	± 0.0638	0.2804	± 0.0044	0.9033	1516	± 7.1	1560	± 7.0	1593	± 11.1	1516	± 7.1			
25 W-051408-8 113	253	49,650	0.0982	± 0.0009	4.0695	± 0.1821	0.3006	± 0.0131	0.9765	1590	± 9.0	1648	± 18.2	1694	± 32.5	1590	± 9.0			
26 W-051408-8 72	154	3,131	0.0993	± 0.0019	4.2913	± 0.4751	0.3133	± 0.0327	0.9852	1612	± 17.6	1692	± 45.6	1757	± 80.3	1612	± 17.6			
27 W-051408-8 98	77	51,175	0.1009	± 0.0013	4.1998	± 0.1665	0.3020	± 0.0113	0.9459	1640	± 11.9	1674	± 16.3	1701	± 28.0	1640	± 11.9			
28 W-051408-8 77	432	51,379	0.1015	± 0.0006	3.7506	± 0.0697	0.2681	± 0.0047	0.9554	1651	± 5.1	1582	± 7.4	1531	± 12.1	1651	± 5.1			
29 W-051408-8 20	162	54,929	0.1019	± 0.0025	4.0492	± 0.2276	0.2881	± 0.0145	0.8962	1660	± 23.1	1644	± 22.9	1632	± 36.2	1660	± 23.1			
30 W-051408-8 76	849	14,029	0.1031	± 0.0004	4.4443	± 0.4495	0.3126	± 0.0313	0.9994	1681	± 3.2	1721	± 41.9	1753	± 76.9	1681	± 3.2			
31 W-051408-8 42	572	51,495	0.1036	± 0.0003	3.4585	± 0.1171	0.2421	± 0.0081	0.9951	1690	± 3.1	1518	± 13.3	1398	± 21.1	1690	± 3.1			
32 W-051408-8 125	426	49,701	0.1038	± 0.0007	3.8606	± 0.0938	0.2698	± 0.0063	0.9652	1693	± 5.9	1605	± 9.8	1540	± 16.0	1693	± 5.9			
33 W-051408-8 93	124	959	0.1040	± 0.0037	3.5326	± 0.2216	0.2465	± 0.0111	0.8176	1696	± 32.8	1535	± 24.8	1420	± 28.8	1696	± 32.8			
34 W-051408-8 99	265	51,177	0.1042	± 0.0004	4.0563	± 0.0527	0.2823	± 0.0035	0.9610	1701	± 3.3	1646	± 5.3	1603	± 8.8	1701	± 3.3			
35 W-051408-8 41	1385	9,797	0.1043	± 0.0010	3.4495	± 0.1896	0.2399	± 0.0128	0.9838	1701	± 9.1	1516	± 21.6	1386	± 33.3	1701	± 9.1			
36 W-051408-8 130	643	51,291	0.1044	± 0.0002	4.3941	± 0.2215	0.3054	± 0.0153	0.9990	1703	± 2.1	1711	± 20.8	1718	± 37.9	1703	± 2.1			
37 W-051408-8 17	632	54,678	0.1048	± 0.0003	4.8635	± 0.1589	0.3367	± 0.0109	0.9958	1710	± 2.7	1796	± 13.8	1871	± 26.4	1710	± 2.7			
38 W-051408-8 65	268	4,048	0.1048	± 0.0018	4.490															

Sample Name:	Bailey 1C (Z7)	Isotopic Ratios								Apparent Ages (Ma)							
Analysis	U (ppm)	$\frac{^{206}\text{Pb}}{^{204}\text{Pb}}$	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 2 \sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 2 \sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 2 \sigma$ abs	Rho	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 1 \sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 1 \sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 1 \sigma$ abs	Best Age	$\pm 1 \sigma$ abs
63 W-051408-8 6	388	60,856	0.1734	± 0.0074	10.9051	± 0.6520	0.4561	± 0.0190	0.6990	2591	± 35.7	2515	± 27.8	2422	± 42.1	2591	± 35.7
64 W-051408-8 18	194	54,761	0.1831	± 0.0005	13.7073	± 0.3954	0.5431	± 0.0156	0.9946	2681	± 2.5	2730	± 13.6	2796	± 32.5	2681	± 2.5
Sample Name:	GM-W-051508-3 (Z3)	Isotopic Ratios								Apparent Ages (Ma)							
Analysis	U (ppm)	$\frac{^{206}\text{Pb}}{^{204}\text{Pb}}$	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 2 \sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 2 \sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 2 \sigma$ abs	Rho	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 1 \sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 1 \sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 1 \sigma$ abs	Best Age	$\pm 1 \sigma$ abs
1 W-051508-3 95	506	223	0.0558	± 0.0062	0.0721	± 0.0082	0.0094	± 0.0003	0.2383	446	± 123.1	71	± 3.9	60	± 0.8	60	± 0.8
2 W-051508-3 65	1617	374	0.0677	± 0.0149	0.1002	± 0.0231	0.0107	± 0.0008	0.3091	858	± 228.0	97	± 10.7	69	± 2.4	69	± 2.4
3 W-051508-3 121	522	206	0.0625	± 0.0056	0.1106	± 0.0105	0.0128	± 0.0004	0.3109	690	± 96.1	107	± 4.8	82	± 1.2	82	± 1.2
4 W-051508-3 134	413	248	0.0515	± 0.0045	0.0932	± 0.0103	0.0131	± 0.0009	0.5968	265	± 101.3	91	± 4.8	84	± 2.7	84	± 2.7
5 W-051508-3 23	768	90	0.0592	± 0.0049	0.1089	± 0.0113	0.0133	± 0.0008	0.6054	573	± 89.5	105	± 5.2	85	± 2.7	85	± 2.7
6 W-051508-3 92	200	101	0.0718	± 0.0130	0.1448	± 0.0267	0.0146	± 0.0005	0.1985	981	± 183.9	137	± 11.8	94	± 1.7	94	± 1.7
7 W-051508-3 17	958	361	0.0631	± 0.0038	0.1307	± 0.0106	0.0150	± 0.0008	0.6766	710	± 63.2	125	± 4.7	96	± 2.6	96	± 2.6
8 W-051508-3 34	174	81	0.0624	± 0.0075	0.1299	± 0.0162	0.0151	± 0.0005	0.2810	689	± 127.4	124	± 7.3	97	± 1.7	97	± 1.7
9 W-051508-3 75	266	109	0.0742	± 0.0102	0.1619	± 0.0232	0.0158	± 0.0006	0.2863	1048	± 138.4	152	± 10.1	101	± 2.1	101	± 2.1
10 W-051508-3 126	732	261	0.0585	± 0.0017	0.1335	± 0.0063	0.0165	± 0.0006	0.7770	550	± 32.4	127	± 2.8	106	± 1.9	106	± 1.9
11 W-051508-3 133	847	540	0.0527	± 0.0026	0.1233	± 0.0097	0.0170	± 0.0011	0.7857	314	± 55.6	118	± 4.4	109	± 3.3	109	± 3.3
12 W-051508-3 130	181	118	0.0816	± 0.0260	0.1968	± 0.0638	0.0175	± 0.0010	0.1819	1236	± 312.6	182	± 27.1	112	± 3.3	112	± 3.3
13 W-051508-3 53	262	68	0.0724	± 0.0062	0.1749	± 0.0162	0.0175	± 0.0006	0.3714	998	± 87.2	164	± 7.0	112	± 1.9	112	± 1.9
14 W-051508-3 120	51	24	0.0601	± 0.0429	0.1462	± 0.1049	0.0176	± 0.0014	0.1072	609	± 770.9	139	± 46.5	113	± 4.3	113	± 4.3
15 W-051508-3 39	585	229	0.0593	± 0.0030	0.1458	± 0.0088	0.0178	± 0.0006	0.5635	579	± 54.4	138	± 3.9	114	± 1.9	114	± 1.9
16 W-051508-3 87	321	205	0.0691	± 0.0158	0.1703	± 0.0397	0.0179	± 0.0008	0.1919	900	± 235.9	160	± 17.2	114	± 2.5	114	± 2.5
17 W-051508-3 122	282	190	0.0593	± 0.0086	0.1467	± 0.0219	0.0179	± 0.0007	0.2478	578	± 157.5	139	± 9.7	115	± 2.1	115	± 2.1
18 W-051508-3 55	224	116	0.0530	± 0.0051	0.1315	± 0.0138	0.0180	± 0.0008	0.4039	329	± 109.2	125	± 6.2	115	± 2.4	115	± 2.4
19 W-051508-3 115	86	80	0.0735	± 0.0147	0.1964	± 0.0411	0.0194	± 0.0012	0.2907	1027	± 202.6	182	± 17.5	124	± 3.7	124	± 3.7
20 W-051508-3 69	541	329	0.0510	± 0.0034	0.1368	± 0.0103	0.0194	± 0.0007	0.4873	243	± 76.0	130	± 4.6	124	± 2.3	124	± 2.3
21 W-051508-3 36	190	101	0.0575	± 0.0066	0.1614	± 0.0193	0.0204	± 0.0007	0.2788	510	± 126.6	152	± 8.5	130	± 2.1	130	± 2.1
22 W-051508-3 119	122	97	0.0611	± 0.0127	0.1746	± 0.0368	0.0207	± 0.0006	0.1417	641	± 224.3	163	± 15.9	132	± 2.0	132	± 2.0
23 W-051508-3 104	209	138	0.0616	± 0.0078	0.1784	± 0.0227	0.0210	± 0.0004	0.1519	662	± 134.7	167	± 9.8	134	± 1.3	134	± 1.3
24 W-051508-3 58	42	27	0.0443	± 0.0314	0.1335	± 0.0948	0.0218	± 0.0014	0.0931	0	± 0.0	127	± 42.5	139	± 4.6	139	± 4.6
25 W-051508-3 33	105	35	0.0635	± 0.0154	0.1933	± 0.0502	0.0221	± 0.0021	0.3661	726	± 256.2	179	± 21.4	141	± 6.6	141	± 6.6
26 W-051508-3 112	512	352	0.0558	± 0.0030	0.1697	± 0.0101	0.0221	± 0.0005	0.4106	443	± 60.1	159	± 4.4	141	± 1.7	141	± 1.7
27 W-051508-3 13	199	117	0.0629	± 0.0088	0.1925	± 0.0278	0.0222	± 0.0008	0.2395	705	± 148.9	179	± 11.8	142	± 2.4	142	± 2.4
28 W-051508-3 20	237	101	0.0654	± 0.0103	0.2040	± 0.0324	0.0226	± 0.0004	0.1049	786	± 165.8	189	± 13.7	144	± 1.2	144	± 1.2
29 W-051508-3 1	921	283	0.0554	± 0.0026	0.1730	± 0.0106	0.0226	± 0.0009	0.6462	429	± 52.3	162	± 4.6	144	± 2.8	144	± 2.8
30 W-051508-3 37	148	69	0.0732	± 0.0188	0.2411	± 0.0633	0.0239	± 0.0014	0.2166	1019	± 259.5	219	± 25.9	152	± 4.3	152	± 4.3
31 W-051508-3 32	1069	442	0.0506	± 0.0012	0.1682	± 0.0064	0.0241	± 0.0007	0.7869	222	± 27.1	158	± 2.8	154	± 2.3	154	± 2.3
32 W-051508-3 71	194	94	0.0703	± 0.0108	0.2385	± 0.0377	0.0246	± 0.0008	0.2143	938	± 158.1	217	± 15.4	157	± 2.6	157	± 2.6
33 W-051508-3 124	168	124	0.0636	± 0.0126	0.2158	± 0.0431	0.0246	± 0.0006	0.1260	728	± 210.1	198	± 18.0	157	± 1.9	157	± 1.9
34 W-051508-3 88	230	128	0.0572	± 0.0066	0.1983	± 0.0246	0.0251	± 0.0012	0.3767	500	± 126.7	184	± 10.4	160	± 3.7	160	± 3.7
35 W-051508-3 128	145	88	0.0958	± 0.0155	0.3340	± 0.0569	0.0253	± 0.0014	0.3201	1544	± 151.7	293	± 21.7	161	± 4.3	161	± 4.3
36 W-051508-3 42	435	265	0.0588	± 0.0031	0.2081	± 0.0119	0.0257	± 0.0006	0.3800	559	± 57.5	192	± 5.0	163	± 1.7	163	± 1.7
37 W-051508-3 129	460	436	0.0541	± 0.0038	0.1995	± 0.0147	0.0268	± 0.0006	0.3200	374	± 78.5	185	± 6.2	170	± 2.0	170	± 2.0
38 W-051508-3 48	581	467	0.0548	± 0.0027	0.2028	± 0.0106	0.0268	± 0.0004	0.3056	405	± 55.7	187	± 4.5	171	± 1.3	171	± 1.3
39 W-051508-3 66	344	295	0.0554	± 0.0024	0.2071	± 0.0103	0.0271	± 0.0007	0.4857	428	± 48.5	191	± 4.3	172	± 2.1	172	± 2.1
40 W-051508-3 111	591	276	0.0573	± 0.0022	0.2150	± 0.0113	0.0272	± 0.0009	0.6615	502	± 43.2	198	± 4.7	173	± 3.0	173	± 3.0
41 W-051508-3 26	1619	1,057	0.0503	± 0.0012	0.1934	± 0.0078	0.0279	± 0.0009	0.8229	208	\pm						

Isotopic Ratios																Apparent Ages (Ma)					
Analysis	U (ppm)	$\frac{^{206}\text{Pb}}{^{204}\text{Pb}}$	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 2 \sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 2 \sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 2 \sigma$ abs	Rho	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 1 \sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 1 \sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 1 \sigma$ abs	Best Age	$\pm 1 \sigma$ abs				
65 W-051508-3 78	355	1,176	0.0592	± 0.0008	0.9144	± 0.0274	0.1120	± 0.0030	0.8847	575	± 15.2	659	± 7.3	684	± 8.6	684	± 8.6				
66 W-051508-3 49	102	334	0.0694	± 0.0044	1.1777	± 0.1331	0.1231	± 0.0115	0.8290	911	± 65.1	790	± 31.0	748	± 33.1	748	± 33.1				
67 W-051508-3 52	269	579	0.0643	± 0.0037	1.1108	± 0.0729	0.1254	± 0.0041	0.4995	750	± 60.0	759	± 17.5	762	± 11.8	762	± 11.8				
68 W-051508-3 2	18	42	0.0827	± 0.0095	1.5400	± 0.2628	0.1350	± 0.0170	0.7379	1263	± 112.5	946	± 52.5	816	± 48.3	816	± 48.3				
69 W-051508-3 106	182	1,128	0.0769	± 0.0010	2.3159	± 0.0689	0.2183	± 0.0059	0.9013	1120	± 12.9	1217	± 10.6	1273	± 15.5	1120	± 12.9				
70 W-051508-3 93	27	149	0.0783	± 0.0065	1.7203	± 0.1573	0.1593	± 0.0062	0.4251	1155	± 82.1	1016	± 29.4	953	± 17.2	1155	± 82.1				
71 W-051508-3 127	504	2,957	0.0803	± 0.0011	2.3629	± 0.1163	0.2133	± 0.0101	0.9626	1205	± 13.1	1231	± 17.6	1246	± 26.8	1205	± 13.1				
72 W-051508-3 86	131	1,180	0.0821	± 0.0010	2.5366	± 0.0424	0.2241	± 0.0026	0.6889	1247	± 11.9	1283	± 6.1	1304	± 6.8	1247	± 11.9				
73 W-051508-3 40	75	474	0.0838	± 0.0016	2.7992	± 0.0968	0.2421	± 0.0069	0.8246	1289	± 19.0	1355	± 12.9	1398	± 17.9	1289	± 19.0				
74 W-051508-3 99	161	1,406	0.0900	± 0.0007	2.9724	± 0.0374	0.2396	± 0.0023	0.7684	1425	± 7.7	1401	± 4.8	1385	± 6.0	1425	± 7.7				
75 W-051508-3 81	363	1,128	0.0937	± 0.0004	2.7464	± 0.0407	0.2127	± 0.0030	0.9542	1501	± 4.2	1341	± 5.5	1243	± 8.0	1501	± 4.2				
76 W-051508-3 22	249	1,811	0.0947	± 0.0005	3.9075	± 0.2130	0.2992	± 0.0162	0.9958	1522	± 4.7	1615	± 22.0	1687	± 40.3	1522	± 4.7				
77 W-051508-3 91	233	1,866	0.0958	± 0.0005	3.5969	± 0.2027	0.2722	± 0.0153	0.9951	1544	± 5.3	1549	± 22.4	1552	± 38.7	1544	± 5.3				
78 W-051508-3 90	152	1,365	0.1015	± 0.0010	4.1595	± 0.3095	0.2973	± 0.0219	0.9916	1651	± 8.9	1666	± 30.5	1678	± 54.5	1651	± 8.9				
79 W-051508-3 56	591	3,276	0.1035	± 0.0003	3.5390	± 0.0704	0.2479	± 0.0049	0.9867	1688	± 3.0	1536	± 7.9	1428	± 12.6	1688	± 3.0				
80 W-051508-3 100	163	2,012	0.1042	± 0.0006	4.4177	± 0.1003	0.3074	± 0.0068	0.9725	1701	± 4.9	1716	± 9.4	1728	± 16.7	1701	± 4.9				
81 W-051508-3 101	883	6,347	0.1046	± 0.0005	4.0577	± 0.1667	0.2814	± 0.0115	0.9936	1707	± 4.3	1646	± 16.7	1598	± 28.9	1707	± 4.3				
82 W-051508-3 44	785	6,134	0.1090	± 0.0003	4.9544	± 0.1016	0.3297	± 0.0067	0.9909	1782	± 2.5	1812	± 8.7	1837	± 16.2	1782	± 2.5				
83 W-051508-3 4	124	996	0.1104	± 0.0006	5.0309	± 0.0944	0.3304	± 0.0059	0.9509	1806	± 5.3	1825	± 8.0	1840	± 14.3	1806	± 5.3				
84 W-051508-3 10	97	577	0.1142	± 0.0031	5.8841	± 0.3049	0.3737	± 0.0164	0.8475	1867	± 24.8	1959	± 22.5	2047	± 38.5	1867	± 24.8				
85 W-051508-3 76	144	989	0.1232	± 0.0027	5.9450	± 0.2057	0.3500	± 0.0094	0.7757	2003	± 19.4	1968	± 15.0	1935	± 22.4	2003	± 19.4				
86 W-051508-3 80	52	236	0.1849	± 0.0020	13.0866	± 0.2835	0.5134	± 0.0097	0.8729	2697	± 8.7	2686	± 10.2	2671	± 20.7	2697	± 8.7				

Isotopic Ratios																Apparent Ages (Ma)					
Analysis	U (ppm)	$\frac{^{206}\text{Pb}}{^{204}\text{Pb}}$	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 2 \sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 2 \sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 2 \sigma$ abs	Rho	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 1 \sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 1 \sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 1 \sigma$ abs	Best Age	$\pm 1 \sigma$ abs				
1 W-051608-4 26	573	324	0.0529	± 0.0032	0.1120	± 0.0081	0.0153	± 0.0006	0.5721	327	± 67.6	108	± 3.7	98	± 2.0	98	± 2.0				
2 W-051608-4 106	164	194	0.0556	± 0.0135	0.1186	± 0.0296	0.0155	± 0.0009	0.2369	437	± 269.7	114	± 13.4	99	± 2.9	99	± 2.9				
3 W-051608-4 133	184	197	0.0538	± 0.0062	0.1156	± 0.0140	0.0156	± 0.0006	0.2921	364	± 130.5	111	± 6.4	100	± 1.7	100	± 1.7				
4 W-051608-4 128	236	255	0.0617	± 0.0085	0.1337	± 0.0194	0.0157	± 0.0007	0.3186	664	± 147.1	127	± 8.7	101	± 2.3	101	± 2.3				
5 W-051608-4 72	979	456	0.0546	± 0.0018	0.1201	± 0.0098	0.0160	± 0.0012	0.9124	395	± 37.4	115	± 4.4	102	± 3.8	102	± 3.8				
6 W-051608-4 90	58	66	0.0690	± 0.0336	0.1524	± 0.0750	0.0160	± 0.0012	0.1488	899	± 501.5	144	± 33.0	102	± 3.7	102	± 3.7				
7 W-051608-4 152	289	308	0.0551	± 0.0182	0.1219	± 0.0408	0.0161	± 0.0009	0.1710	414	± 368.5	117	± 18.5	103	± 2.9	103	± 2.9				
8 W-051608-4 109	408	282	0.0529	± 0.0049	0.1227	± 0.0119	0.0168	± 0.0005	0.2837	323	± 105.5	118	± 5.4	108	± 1.5	108	± 1.5				
9 W-051608-4 153	97	49,262	0.0732	± 0.0192	0.1731	± 0.0459	0.0171	± 0.0007	0.1480	1021	± 265.6	162	± 19.9	110	± 2.1	110	± 2.1				
10 W-051608-4 28	303	220	0.0531	± 0.0089	0.1311	± 0.0224	0.0179	± 0.0005	0.1779	334	± 190.9	125	± 10.1	114	± 1.7	114	± 1.7				
11 W-051608-4 130	164	260	0.0629	± 0.0075	0.1564	± 0.0234	0.0180	± 0.0016	0.5996	706	± 127.2	148	± 10.3	115	± 5.1	115	± 5.1				
12 W-051608-4 107	373	176	0.0779	± 0.0060	0.1940	± 0.0160	0.0181	± 0.0005	0.3599	1145	± 76.3	180	± 6.8	115	± 1.7	115	± 1.7				
13 W-051608-4 36	57	38	0.0786	± 0.0235	0.2015	± 0.0616	0.0186	± 0.0011	0.2005	1162	± 296.9	186	± 26.0	119	± 3.6	119	± 3.6				
14 W-051608-4 13	339	191	0.0483	± 0.0077	0.1324	± 0.0233	0.0199	± 0.0015	0.4334	113	± 187.4	126	± 10.5	127	± 4.8	127	± 4.8				
15 W-051608-4 52	64	49	0.0707	± 0.0206	0.2013	± 0.0653	0.0207	± 0.0029	0.4405	948	± 297.9	186	± 27.6	132	± 9.3	132	± 9.3				
16 W-051608-4 91	180	558	0.0653	± 0.0107	0.1888	± 0.0315	0.0210	± 0.0007	0.2011	783	± 171.9	176	± 13.5	134	± 2.2	134	± 2.2				
17 W-051608-4 41	81	67	0.0495	± 0.0130	0.1434	± 0.0383	0.0210	± 0.0010	0.1841	173	± 306.6	136	± 17.0	134	± 3.3	134	± 3.3				

Sample Name:	Isotopic Ratios									Apparent Ages (Ma)							
Analysis	U (ppm)	$\frac{^{206}\text{Pb}}{^{204}\text{Pb}}$	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 2 \sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 2 \sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 2 \sigma$ abs	Rho	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 1 \sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 1 \sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 1 \sigma$ abs	Best Age	$\pm 1 \sigma$ abs
45 W-051608-4 94	11	90	0.0691	± 0.0363	0.8909	± 0.4887	0.0936	± 0.0148	0.2887	900	± 541.6	647	± 131.2	577	± 43.7	577	± 43.7
46 W-051608-4 86	187	693	0.0677	± 0.0018	0.9001	± 0.0393	0.0965	± 0.0033	0.7916	858	± 27.7	652	± 10.5	594	± 9.8	594	± 9.8
47 W-051608-4 17	85	245	0.0614	± 0.0029	0.9566	± 0.0494	0.1130	± 0.0022	0.3805	654	± 51.2	682	± 12.8	690	± 6.4	690	± 6.4
48 W-051608-4 138	31	450	0.0879	± 0.0099	1.6743	± 0.1978	0.1381	± 0.0047	0.2894	1381	± 108.7	999	± 37.6	834	± 13.4	834	± 13.4
49 W-051608-4 65	45	229	0.0680	± 0.0024	1.7392	± 0.0810	0.1854	± 0.0056	0.6523	870	± 36.6	1023	± 15.0	1096	± 15.3	870	± 36.6
50 W-051608-4 67	108	748	0.0721	± 0.0025	1.9684	± 0.1198	0.1979	± 0.0098	0.8172	990	± 35.7	1105	± 20.5	1164	± 26.5	990	± 35.7
51 W-051608-4 53	37	310	0.0807	± 0.0027	2.3231	± 0.0966	0.2087	± 0.0052	0.5965	1215	± 32.8	1219	± 14.8	1222	± 13.8	1215	± 32.8
52 W-051608-4 22	254	1,820	0.0853	± 0.0005	2.7691	± 0.0576	0.2353	± 0.0047	0.9662	1323	± 5.2	1347	± 7.8	1362	± 12.3	1323	± 5.2
53 W-051608-4 15	193	1,139	0.0866	± 0.0008	3.1757	± 0.0835	0.2660	± 0.0066	0.9394	1352	± 8.7	1451	± 10.2	1520	± 16.7	1352	± 8.7
54 W-051608-4 16	136	921	0.0881	± 0.0007	2.7749	± 0.1099	0.2285	± 0.0089	0.9818	1384	± 7.2	1349	± 14.8	1327	± 23.3	1384	± 7.2
55 W-051608-4 112	22	400	0.0902	± 0.0057	3.3950	± 0.2458	0.2728	± 0.0096	0.4879	1431	± 60.3	1503	± 28.4	1555	± 24.4	1431	± 60.3
56 W-051608-4 24	274	1,441	0.0910	± 0.0009	2.4972	± 0.2848	0.1991	± 0.0226	0.9963	1446	± 9.3	1271	± 41.3	1170	± 60.8	1446	± 9.3
57 W-051608-4 99	242	3,183	0.0914	± 0.0004	3.5738	± 0.1666	0.2834	± 0.0131	0.9952	1456	± 4.3	1544	± 18.5	1609	± 33.0	1456	± 4.3
58 W-051608-4 127	314	2,587	0.0920	± 0.0003	3.6660	± 0.1448	0.2890	± 0.0114	0.9965	1468	± 3.1	1564	± 15.8	1636	± 28.4	1468	± 3.1
59 W-051608-4 25	91	725	0.0936	± 0.0026	3.6500	± 0.1257	0.2828	± 0.0057	0.5858	1500	± 26.4	1561	± 13.7	1606	± 14.3	1500	± 26.4
60 W-051608-4 88	85	836	0.0941	± 0.0015	3.0674	± 0.0960	0.2363	± 0.0064	0.8666	1511	± 14.7	1425	± 12.0	1368	± 16.7	1511	± 14.7
61 W-051608-4 12	225	2,467	0.0959	± 0.0006	3.9765	± 0.1742	0.3006	± 0.0131	0.9914	1547	± 5.4	1629	± 17.8	1694	± 32.4	1547	± 5.4
62 W-051608-4 154	107	2,223	0.0964	± 0.0015	3.2480	± 0.0928	0.2443	± 0.0058	0.8277	1556	± 15.1	1469	± 11.1	1409	± 15.0	1556	± 15.1
63 W-051608-4 34	61	549	0.0968	± 0.0091	3.1844	± 0.8813	0.2387	± 0.0621	0.9402	1563	± 88.4	1453	± 106.9	1380	± 161.6	1563	± 88.4
64 W-051608-4 4	122	569	0.0989	± 0.0011	3.3608	± 0.1936	0.2465	± 0.0139	0.9807	1603	± 10.5	1495	± 22.5	1420	± 36.0	1603	± 10.5
65 W-051608-4 75	504	13,131	0.1002	± 0.0003	4.2179	± 0.0676	0.3054	± 0.0048	0.9815	1627	± 2.9	1678	± 6.6	1718	± 11.9	1627	± 2.9
66 W-051608-4 60	264	2,140	0.1017	± 0.0005	4.2467	± 0.1584	0.3027	± 0.0112	0.9905	1656	± 4.7	1683	± 15.3	1705	± 27.7	1656	± 4.7
67 W-051608-4 100	208	3,853	0.1018	± 0.0006	4.6581	± 0.1216	0.3320	± 0.0085	0.9768	1656	± 5.2	1760	± 10.9	1848	± 20.5	1656	± 5.2
68 W-051608-4 140	1095	46,864	0.1032	± 0.0002	4.0172	± 0.0777	0.2823	± 0.0054	0.9922	1683	± 2.2	1638	± 7.9	1603	± 13.6	1683	± 2.2
69 W-051608-4 129	685	11,303	0.1052	± 0.0003	4.3840	± 0.2678	0.3022	± 0.0184	0.9991	1718	± 2.4	1709	± 25.2	1702	± 45.6	1718	± 2.4
70 W-051608-4 82	222	3,565	0.1059	± 0.0012	5.0222	± 0.1947	0.3438	± 0.0128	0.9598	1731	± 10.0	1823	± 16.4	1905	± 30.7	1731	± 10.0
71 W-051608-4 97	237	4,132	0.1068	± 0.0008	3.7308	± 0.2456	0.2533	± 0.0166	0.9936	1746	± 6.8	1578	± 26.4	1455	± 42.6	1746	± 6.8
72 W-051608-4 57	57	246	0.1102	± 0.0083	5.4838	± 0.6070	0.3610	± 0.0294	0.7360	1802	± 68.1	1898	± 47.5	1987	± 69.7	1802	± 68.1
73 W-051608-4 2	334	3,279	0.1562	± 0.0004	9.2847	± 0.1574	0.4311	± 0.0072	0.9864	2415	± 2.4	2367	± 7.8	2311	± 16.2	2415	± 2.4
74 W-051608-4 23	190	1,491	0.1653	± 0.0014	9.9777	± 0.7187	0.4377	± 0.0313	0.9927	2511	± 7.3	2433	± 33.2	2340	± 70.2	2511	± 7.3
Sample Name: Urban 1 (Z10)																	
Analysis	U (ppm)	$\frac{^{206}\text{Pb}}{^{204}\text{Pb}}$	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 2 \sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 2 \sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 2 \sigma$ abs	Rho	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 1 \sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 1 \sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 1 \sigma$ abs	Best Age	$\pm 1 \sigma$ abs
1 Urban-1 89	277	72	0.0755	± 0.0098	0.1295	± 0.0172	0.0124	± 0.0003	0.2009	1081	± 130.5	124	± 7.7	80	± 1.1	80	± 1.1
2 Urban-1 95	329	93	0.0858	± 0.0058	0.2329	± 0.0212	0.0197	± 0.0012	0.6725	1335	± 65.0	213	± 8.7	126	± 3.8	126	± 3.8
3 Urban-1 86	1637	238	0.0666	± 0.0016	0.2182	± 0.0069	0.0238	± 0.0005	0.6450	824	± 25.3	200	± 2.9	151	± 1.5	151	± 1.5
4 Urban-1 83	328	103	0.0772	± 0.0052	0.2847	± 0.0202	0.0267	± 0.0006	0.2919	1128	± 67.5	254	± 8.0	170	± 1.7	170	± 1.7
5 Urban-1 109	728	218	0.0725	± 0.0037	0.2705	± 0.0180	0.0271	± 0.0012	0.6512	1000	± 51.2	243	± 7.2	172	± 3.7	172	± 3.7
6 Urban-1 13	848	39	0.0762	± 0.0030	0.2875	± 0.0129	0.0274	± 0.0005	0.4463	1099	± 40.1	257	± 5.1	174	± 1.7	174	± 1.7
7 Urban-1 108	320	159	0.0639	± 0.0039	0.2583	± 0.0170	0.0293	± 0.0007	0.3565	739	± 65.1	233	± 6.9	186	± 2.2	186	± 2.2
8 Urban-1 117	353	107	0.0861	± 0.0026	0.4551	± 0.0189	0.0383	± 0.0011	0.6889	1340	± 29.1	381	± 6.6	243	± 3.4	243	± 3.4
9 Urban-1 67	234	86	0.1049	± 0.0039	0.5762	± 0.0322	0.0398	± 0.0017	0.7534	1713	± 33.8	462	± 10.4	252	± 5.2	252	± 5.2
10 Urban-1 34	583	242	0.0844	± 0.0066	0.4862	± 0.0461	0.0418	± 0.0022	0.5556	1302	± 76.5	402	± 15.7	264	± 6.8	264	± 6.8
11 Urban-1 14	311	35	0.1101	± 0.0148	0.7083	± 0.1034	0.0467	± 0.0027	0.3905	1801	± 122.2	544	± 30.7	294	± 8.2	294	± 8.2
12 Urban-1 30	97	47	0.0991	± 0.0080	0.7096	± 0.0610	0.0519	± 0.0015	0.3450	1607	± 75.2	544	± 18.1	326	± 4.7	326	± 4.7
13 Urban-1 142	531	331	0.0732	± 0.0018	0.5249	± 0.0247	0.0520										

Analysis	U (ppm)	$\frac{^{206}\text{Pb}}{^{204}\text{Pb}}$	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 2 \sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 2 \sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 2 \sigma$ abs	Rho	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 1 \sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 1 \sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 1 \sigma$ abs	Best Age	$\pm 1 \sigma$ abs
37 Urban-1 103	147	219	0.1412	± 0.0072	7.8132	± 0.5522	0.4013	± 0.0195	0.6874	2242	± 44.4	2210	± 31.8	2175	± 44.8	2242	± 44.4
38 Urban-1 120	224	518	0.1428	± 0.0038	7.5521	± 0.2681	0.3837	± 0.0090	0.6626	2261	± 22.9	2179	± 15.9	2093	± 21.0	2261	± 22.9
39 Urban-1 139	58	109	0.1471	± 0.0091	7.8068	± 0.5802	0.3848	± 0.0160	0.5578	2313	± 52.9	2209	± 33.4	2099	± 37.1	2313	± 52.9
40 Urban-1 116	347	607	0.1531	± 0.0245	7.9668	± 1.7305	0.3774	± 0.0553	0.6751	2381	± 136.5	2227	± 98.0	2064	± 129.5	2381	± 136.5
41 Urban-1 128	115	294	0.1707	± 0.0013	9.4563	± 0.5025	0.4018	± 0.0211	0.9894	2565	± 6.4	2383	± 24.4	2177	± 48.6	2565	± 6.4
42 Urban-1 141	175	1,065	0.1757	± 0.0007	11.7336	± 0.1808	0.4843	± 0.0072	0.9658	2613	± 3.3	2583	± 7.2	2546	± 15.6	2613	± 3.3
43 Urban-1 96	134	232	0.1935	± 0.0105	13.2151	± 1.0945	0.4954	± 0.0311	0.7576	2772	± 44.3	2695	± 39.1	2594	± 67.0	2772	± 44.3
44 Urban-1 65	94	156	0.2212	± 0.0059	16.4718	± 0.5244	0.5401	± 0.0093	0.5394	2990	± 21.6	2905	± 15.2	2784	± 19.4	2990	± 21.6
45 Urban-1 91	94	59	0.2603	± 0.0100	24.5110	± 1.5361	0.6829	± 0.0338	0.7894	3249	± 30.3	3289	± 30.6	3356	± 64.7	3249	± 30.3

Analysis	U (ppm)	$\frac{^{206}\text{Pb}}{^{204}\text{Pb}}$	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 2 \sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 2 \sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 2 \sigma$ abs	Rho	$\frac{^{207}\text{Pb}^*}{^{206}\text{Pb}^*}$	$\pm 1 \sigma$ abs	$\frac{^{207}\text{Pb}^*}{^{235}\text{U}}$	$\pm 1 \sigma$ abs	$\frac{^{206}\text{Pb}^*}{^{238}\text{U}}$	$\pm 1 \sigma$ abs	Best Age	$\pm 1 \sigma$ abs
1 Winch St-4 135	280	79	0.0909	± 0.0621	0.1989	± 0.1398	0.0159	± 0.0026	0.2362	1444	± 650.7	184	± 59.2	102	± 8.4	102	± 8.4
2 Winch St-4 78	78	43	0.0933	± 0.0167	0.2376	± 0.0457	0.0185	± 0.0013	0.3648	1495	± 169.4	216	± 18.8	118	± 4.1	118	± 4.1
3 Winch St-4 145	310	132	0.0650	± 0.0047	0.1687	± 0.0129	0.0188	± 0.0004	0.2957	775	± 76.8	158	± 5.6	120	± 1.3	120	± 1.3
4 Winch St-4 88	319	99	0.0929	± 0.0077	0.2556	± 0.0351	0.0200	± 0.0022	0.7963	1486	± 78.7	231	± 14.2	127	± 6.9	127	± 6.9
5 Winch St-4 136	329	148	0.0572	± 0.0052	0.1671	± 0.0156	0.0212	± 0.0004	0.2230	499	± 100.4	157	± 6.8	135	± 1.4	135	± 1.4
6 Winch St-4 54	392	152	0.0607	± 0.0037	0.2085	± 0.0139	0.0249	± 0.0007	0.4134	629	± 65.4	192	± 5.8	159	± 2.2	159	± 2.2
7 Winch St-4 60	197	87	0.0694	± 0.0053	0.2539	± 0.0236	0.0265	± 0.0014	0.5646	912	± 78.9	230	± 9.6	169	± 4.4	169	± 4.4
8 Winch St-4 91	217	108	0.0650	± 0.0037	0.2796	± 0.0172	0.0312	± 0.0007	0.3705	775	± 60.2	250	± 6.8	198	± 2.2	198	± 2.2
9 Winch St-4 124	446	305	0.0548	± 0.0012	0.2406	± 0.0114	0.0318	± 0.0013	0.8853	405	± 24.7	219	± 4.7	202	± 4.2	202	± 4.2
10 Winch St-4 89	41	44	0.0889	± 0.0219	0.3915	± 0.1132	0.0319	± 0.0048	0.5239	1403	± 235.8	335	± 41.3	203	± 15.1	203	± 15.1
11 Winch St-4 55	286	220	0.0596	± 0.0029	0.2778	± 0.0150	0.0338	± 0.0008	0.4132	589	± 53.4	249	± 6.0	214	± 2.4	214	± 2.4
12 Winch St-4 132	157	125	0.0538	± 0.0034	0.2710	± 0.0183	0.0365	± 0.0009	0.3778	364	± 70.3	244	± 7.3	231	± 2.9	231	± 2.9
13 Winch St-4 118	228	285	0.0592	± 0.0028	0.3789	± 0.0202	0.0464	± 0.0011	0.4618	575	± 51.4	326	± 7.4	292	± 3.5	292	± 3.5
14 Winch St-4 57	237	275	0.0573	± 0.0015	0.4913	± 0.0202	0.0622	± 0.0020	0.7684	502	± 28.9	406	± 6.9	389	± 6.0	389	± 6.0
15 Winch St-4 4	129	142	0.0620	± 0.0014	0.5866	± 0.0209	0.0687	± 0.0019	0.7666	673	± 24.5	469	± 6.7	428	± 5.7	428	± 5.7
16 Winch St-4 49	256	413	0.0566	± 0.0013	0.6141	± 0.0201	0.0787	± 0.0019	0.7229	475	± 25.0	486	± 6.3	489	± 5.6	489	± 5.6
17 Winch St-4 8	80	126	0.0675	± 0.0087	0.7592	± 0.1023	0.0815	± 0.0033	0.2964	854	± 133.7	574	± 29.5	505	± 9.7	505	± 9.7
18 Winch St-4 38	143	217	0.0750	± 0.0046	0.8773	± 0.0645	0.0848	± 0.0034	0.5530	1068	± 61.6	640	± 17.4	525	± 10.2	525	± 10.2
19 Winch St-4 123	184	591	0.0739	± 0.0008	1.5226	± 0.0393	0.1495	± 0.0035	0.8981	1038	± 11.5	940	± 7.9	898	± 9.7	898	± 9.7
20 Winch St-4 127	67	258	0.0978	± 0.0045	2.0754	± 0.1686	0.1539	± 0.0103	0.8256	1583	± 42.9	1141	± 27.8	923	± 28.8	923	± 28.8
21 Winch St-4 47	64	178	0.0708	± 0.0024	1.6140	± 0.0627	0.1652	± 0.0032	0.4966	953	± 34.5	976	± 12.2	986	± 8.8	986	± 8.8
22 Winch St-4 43	170	902	0.0781	± 0.0005	2.2858	± 0.1053	0.2122	± 0.0097	0.9883	1150	± 7.0	1208	± 16.3	1240	± 25.7	1150	± 7.0
23 Winch St-4 70	125	575	0.0805	± 0.0016	2.1599	± 0.1592	0.1945	± 0.0138	0.9641	1210	± 19.3	1168	± 25.6	1146	± 37.3	1210	± 19.3
24 Winch St-4 110	95	264	0.0881	± 0.0082	3.1676	± 0.3769	0.2609	± 0.0193	0.6209	1384	± 89.6	1449	± 45.9	1494	± 49.3	1384	± 89.6
25 Winch St-4 143	60	198	0.0884	± 0.0042	2.6946	± 0.2008	0.2210	± 0.0127	0.7735	1392	± 45.3	1327	± 27.6	1287	± 33.6	1392	± 45.3
26 Winch St-4 149	106	579	0.0890	± 0.0018	3.4182	± 0.0963	0.2787	± 0.0053	0.6784	1403	± 19.8	1509	± 11.1	1585	± 13.4	1403	± 19.8
27 Winch St-4 56	405	1,523	0.0908	± 0.0004	2.5436	± 0.0729	0.2031	± 0.0057	0.9873	1443	± 4.3	1285	± 10.4	1192	± 15.4	1443	± 4.3
28 Winch St-4 107	63	346	0.0915	± 0.0016	3.2355	± 0.2167	0.2563	± 0.0166	0.9675	1458	± 16.1	1466	± 26.0	1471	± 42.6	1458	± 16.1
29 Winch St-4 46	158	966	0.0924	± 0.0007	3.6537	± 0.1283	0.2869	± 0.0099	0.9787	1475	± 6.8	1561	± 14.0	1626	± 24.7	1475	± 6.8
30 Winch St-4 15	472	1,325	0.0939	± 0.0048	3.5082	± 0.4536	0.2709	± 0.0321	0.9175	1507	± 48.6	1529	± 51.1	1545	± 81.5	1507	± 48.6
31 Winch St-4 105	366	1,302	0.0996	± 0.0008	3.4052	± 0.0839	0.2479	± 0.0058	0.9420	1617	± 7.7	1506	± 9.7	1427	± 14.9	1617	± 7.7
32 Winch St-4 5	24	86	0.1004	± 0.0110	3.2487	± 0.8715	0.2347	± 0.0575	0.9133	1631	± 101.5	1469	± 104.1	1359	± 150.1	1631	± 101.5
33 Winch St-4 26</																	

KOLMOGOROV-SMIRNOV (K-S) TEST RESULTS

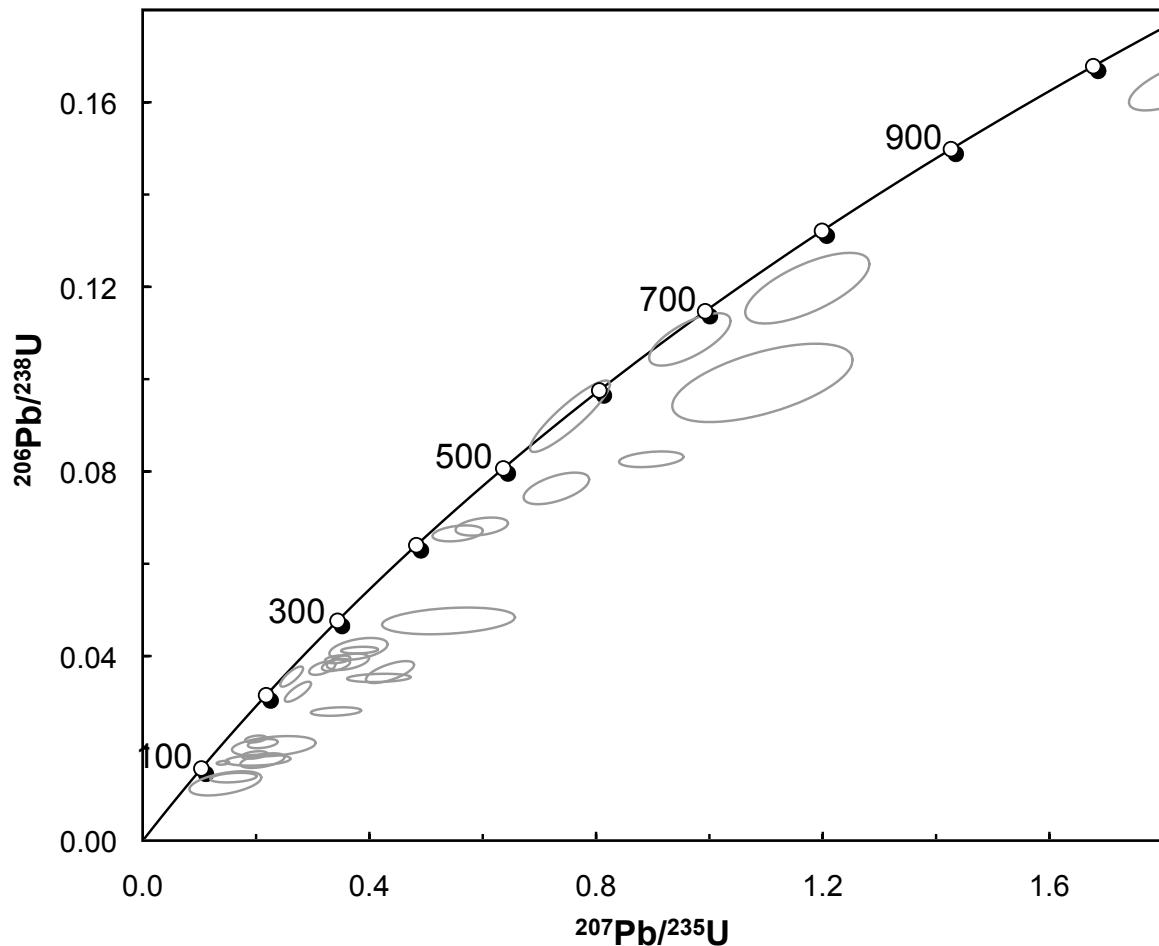
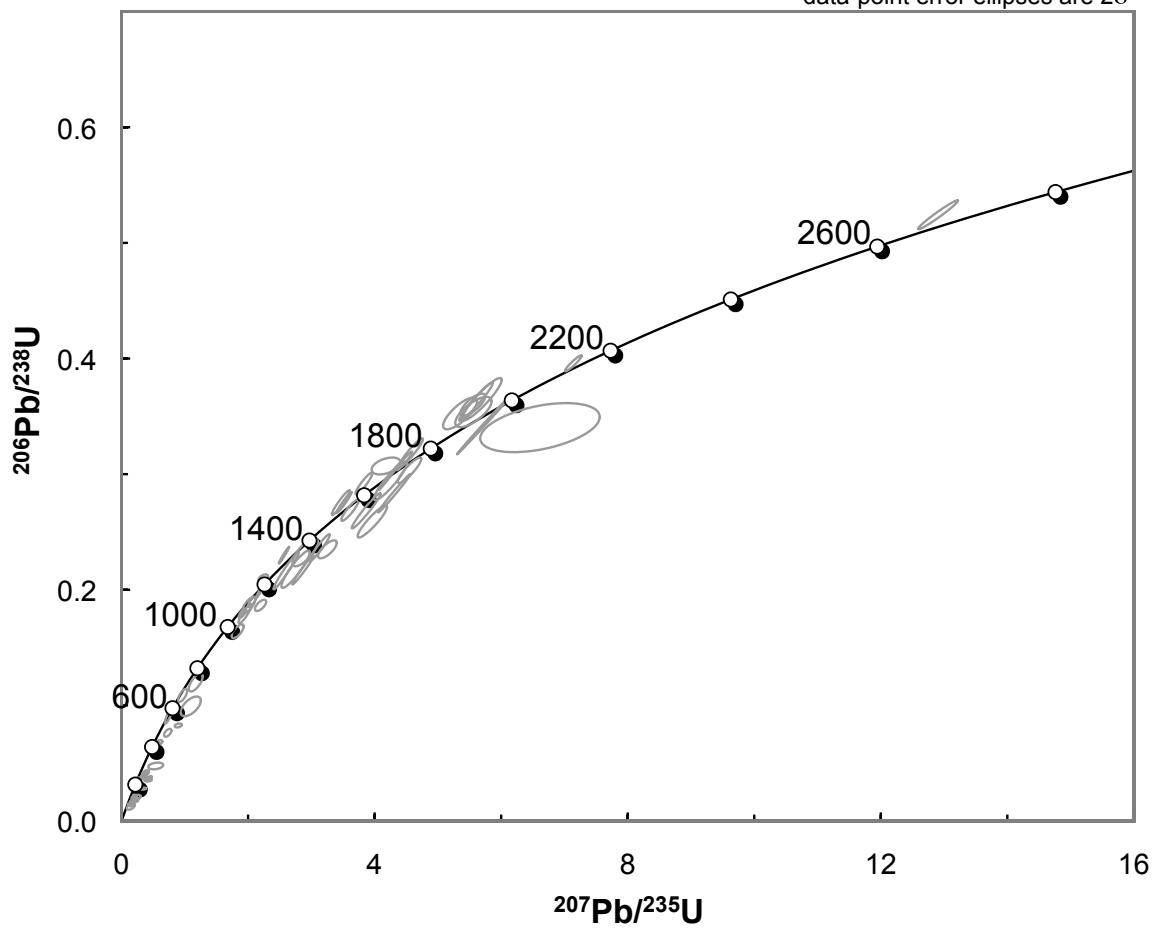
Sample Ages	Lower Wilcox	Upper Wilcox	Z1 [†]	Z2 [†]	Z3 [†]	Z4 [†]	Z5 [†]	Z6 [§]	Z7 [§]	Z8 [§]	Z9 [§]
All Grain Ages											
Lower Wilcox											
Upper Wilcox	0.008										
Z1 [†]	0.005	0.199									
Z2 [†]	0.523	0.038	0.004								
Z3 [†]	0.002	0.000	0.000	0.065							
Z4 [†]	0.000	0.000	0.138	0.000	0.000						
Z5 [†]	0.006	0.000	0.000	0.013	0.030	0.000					
Z6 [§]	0.001	0.099	0.900	0.001	0.000	0.008	0.000				
Z7 [§]	0.001	0.264	0.679	0.015	0.000	0.001	0.000	0.379			
Z8 [§]	0.001	0.000	0.000	0.101	0.303	0.000	0.445	0.000	0.000		
Z9 [§]	0.016	0.622	0.309	0.010	0.000	0.014	0.000	0.642	0.395	0.000	
Z10 [§]	0.001	0.025	0.267	0.001	0.000	0.336	0.000	0.103	0.046	0.000	0.045
Grains <350 Ma											
Lower Wilcox											
Upper Wilcox	0.421										
Z1 [†]	0.524	0.215									
Z2 [†]	0.245	0.033	0.937								
Z3 [†]	0.732	0.122	0.891	0.719							
Z4 [†]	0.638	0.301	0.999	0.944	0.929						
Z5 [†]	0.011	0.085	0.036	0.001	0.002	0.081					
Z6 [§]	0.974	0.906	0.563	0.713	0.798	0.471	0.604				
Z7 [§]	0.046	0.349	0.543	0.408	0.152	0.912	0.011	0.189			
Z8 [§]	0.048	0.600	0.181	0.068	0.094	0.229	0.354	0.691	0.196		
Z9 [§]	0.031	0.312	0.023	0.003	0.007	0.056	0.221	0.526	0.043	0.185	
Z10 [§]	0.079	0.030	0.311	0.160	0.123	0.532	0.041	0.187	0.452	0.004	0.025
Grains >350 Ma											
Lower Wilcox											
Upper Wilcox	0.706										
Z1 [†]	0.748	0.949									
Z2 [†]	0.380	0.144	0.197								
Z3 [†]	0.126	0.124	0.364	0.540							
Z4 [†]	0.013	0.052	0.561	0.003	0.016						
Z5 [†]	0.096	0.020	0.066	0.888	0.180	0.000					
Z6 [§]	0.982	0.832	0.786	0.890	0.163	0.035	0.534				
Z7 [§]	0.684	0.640	0.813	0.606	0.892	0.032	0.350	0.599			
Z8 [§]	0.530	0.311	0.235	1.000	0.990	0.022	0.781	0.754	0.677		
Z9 [§]	0.307	0.813	0.984	0.036	0.091	0.581	0.010	0.294	0.383	0.248	
Z10 [§]	0.002	0.016	0.100	0.002	0.019	0.074	0.000	0.023	0.013	0.003	0.018

* The K-S test compares the age distribution of two detrital zircon samples and determines a probability (P) that the differences between the two samples are due to random chance. If P<0.05 then the two samples are considered to be different at the 95% confidence level. Comparisons where P≥0.05 are marked by bold text.

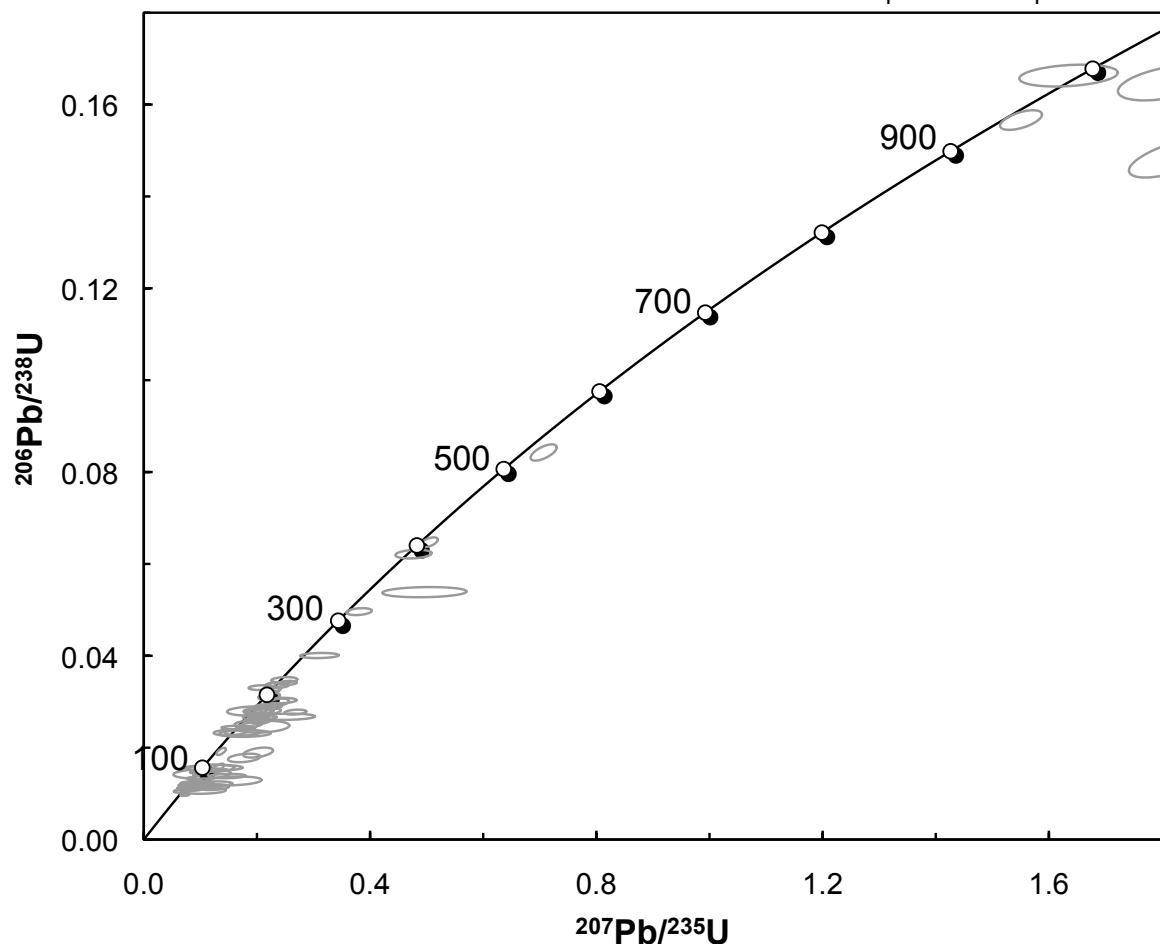
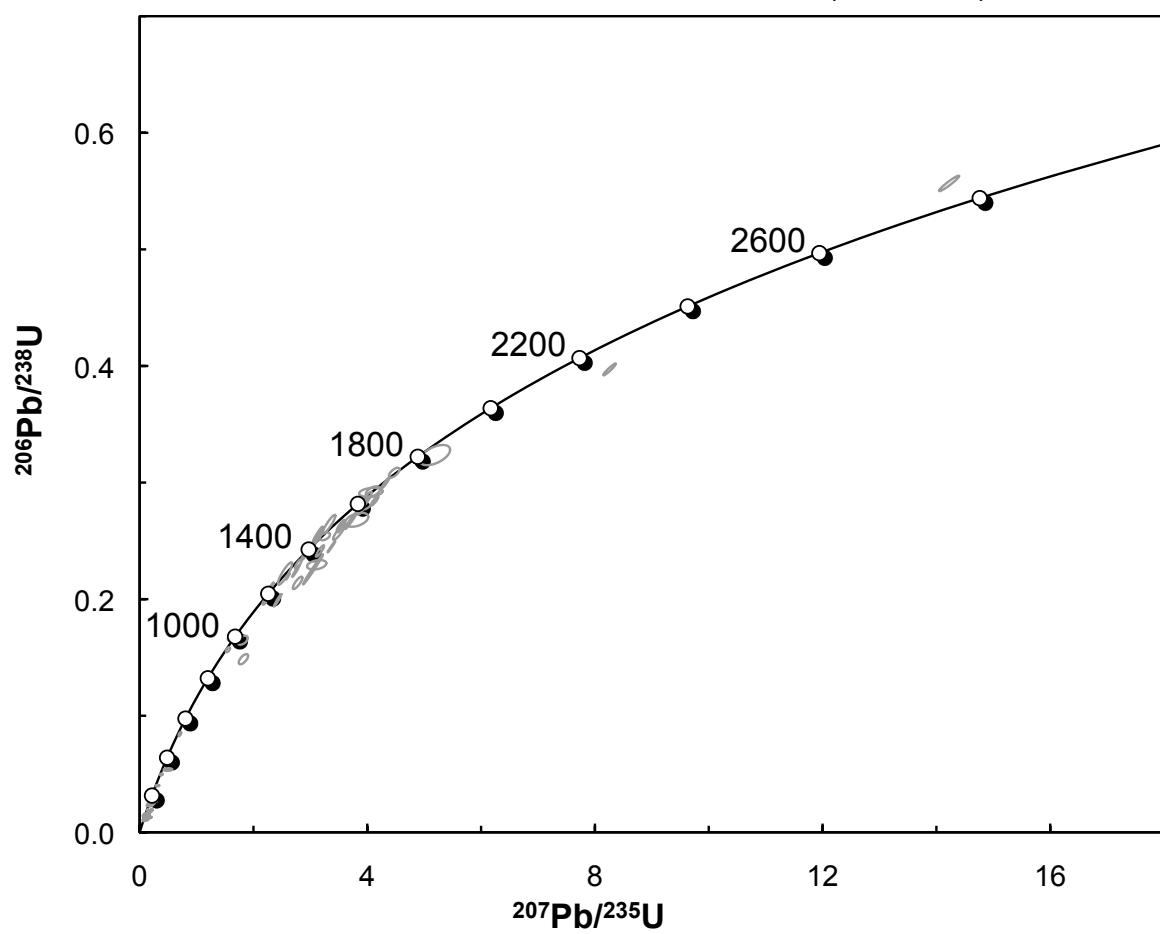
† Lower Wilcox samples.

§ Upper Wilcox samples.

Bailey 1C (Z7)

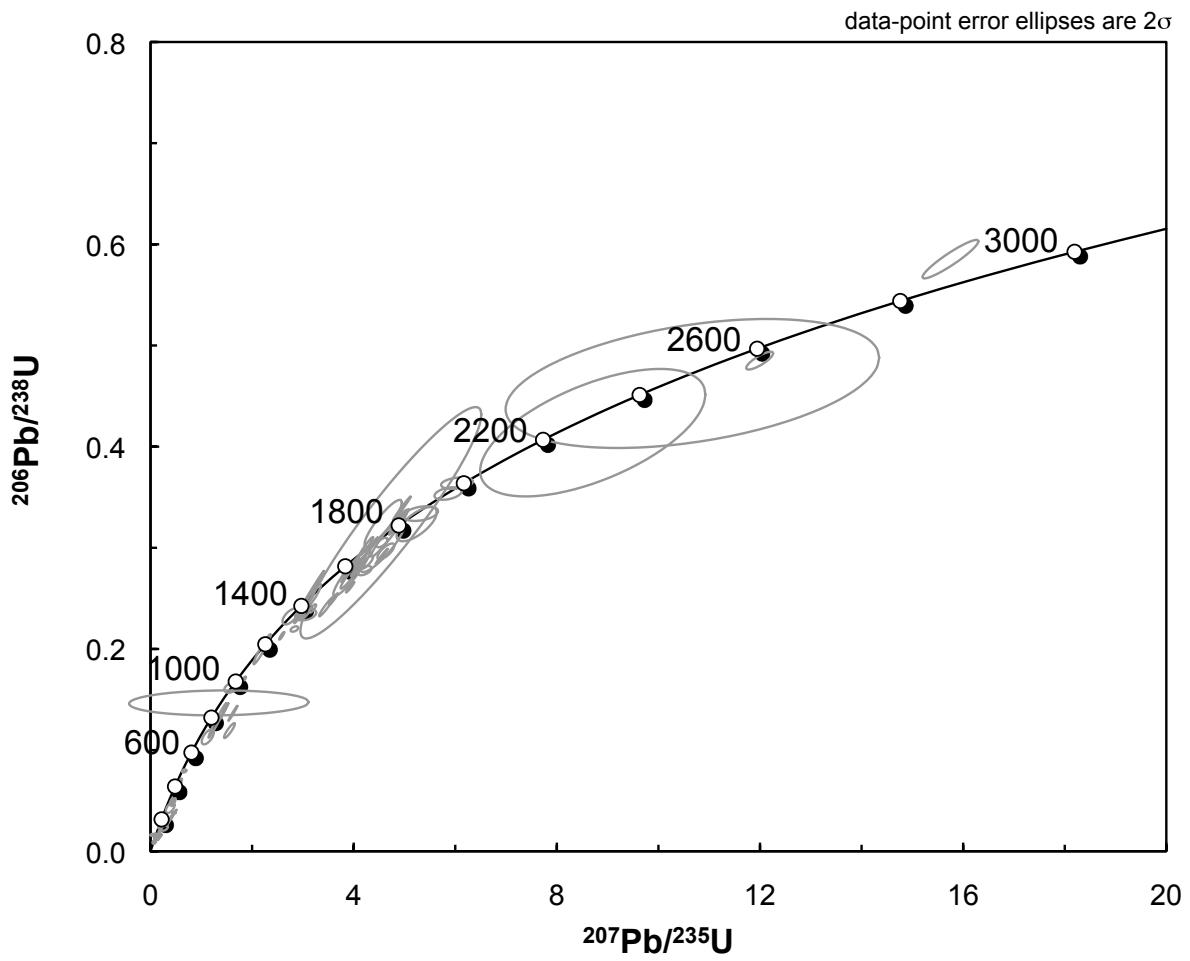
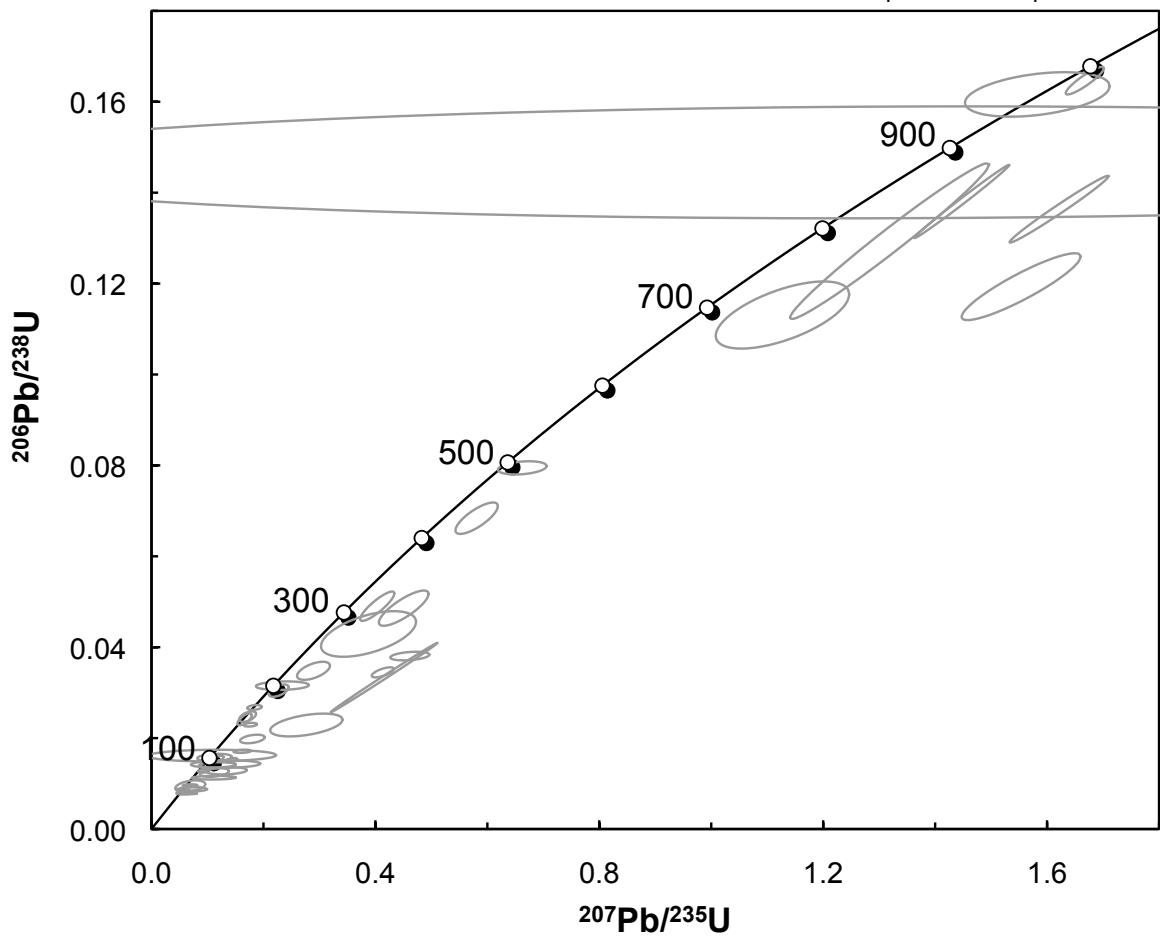
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Burns 1 (Z5)

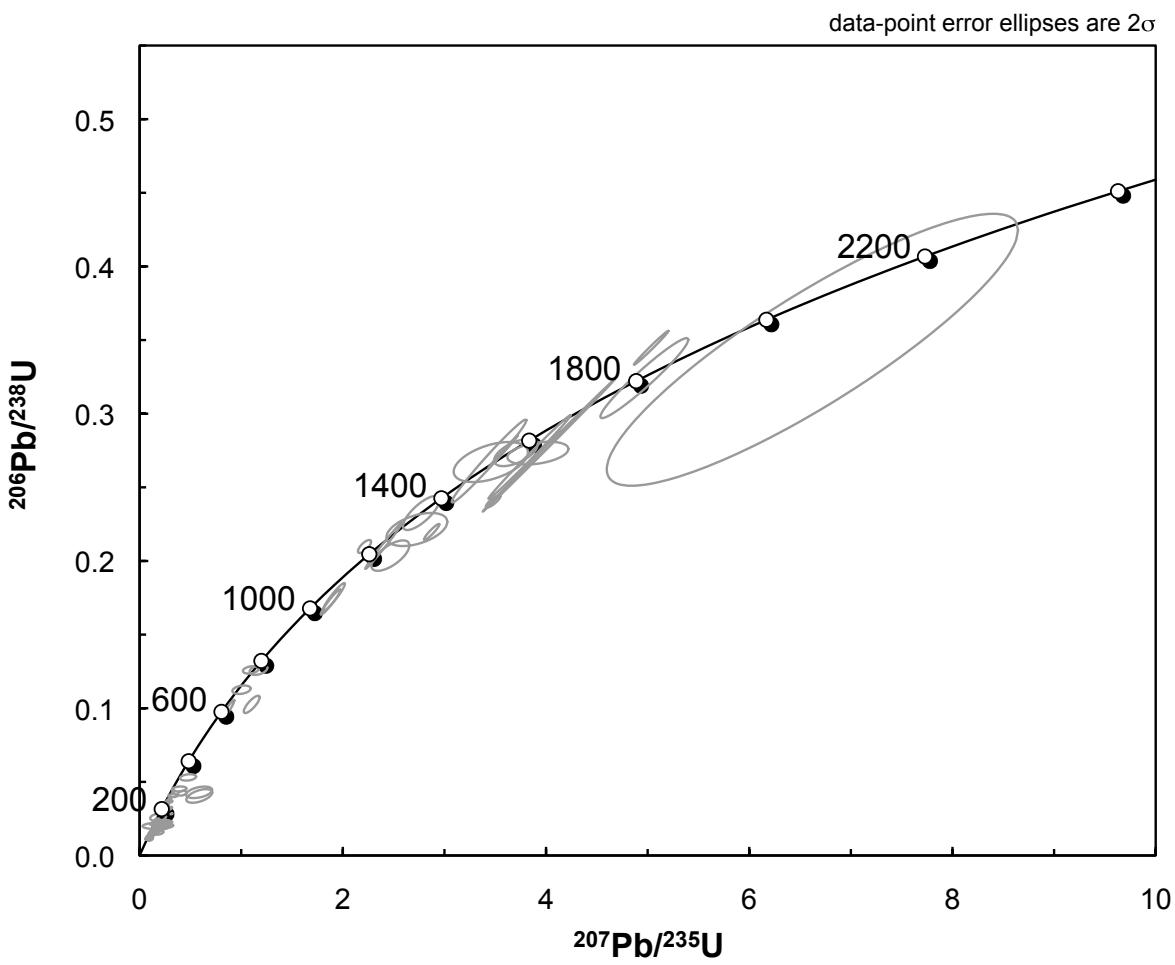
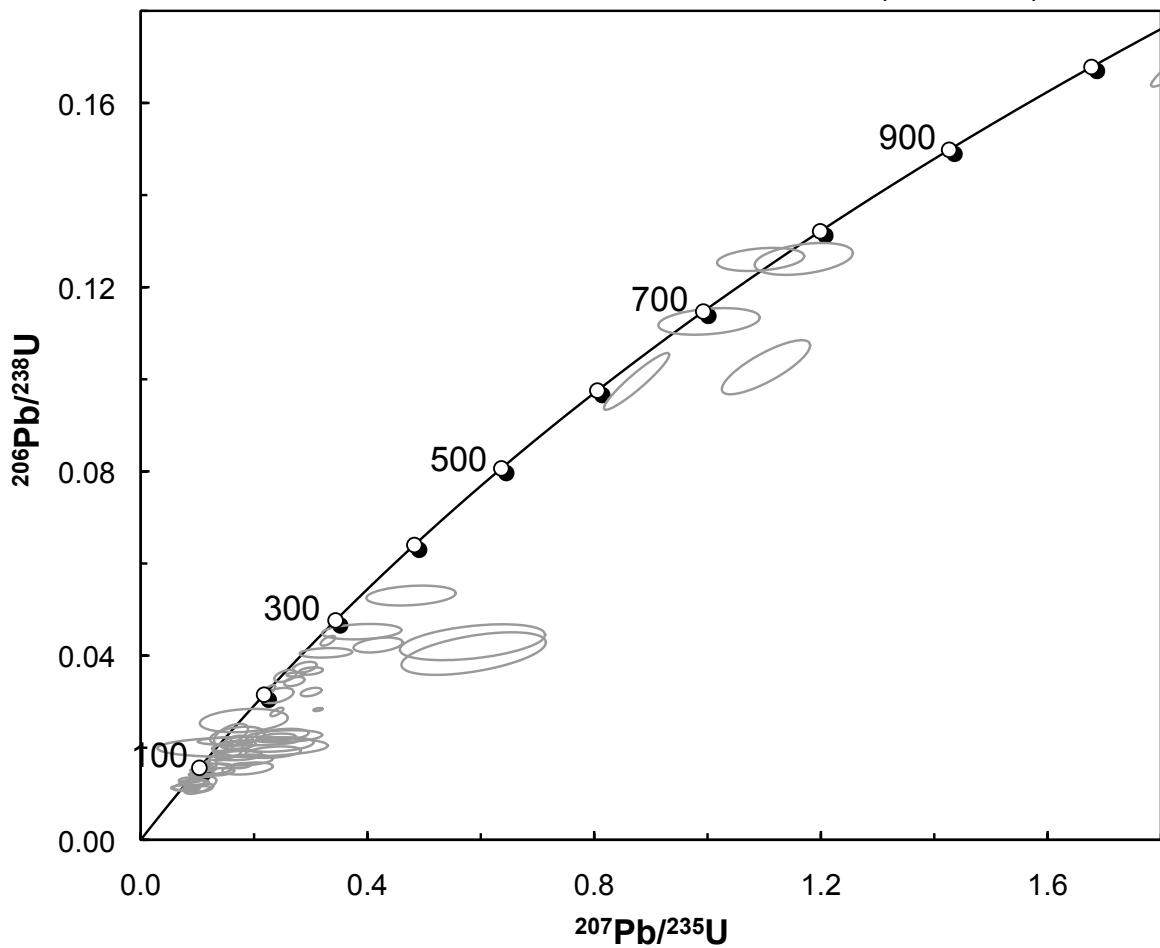
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GM-C-051408-8 (Z9)

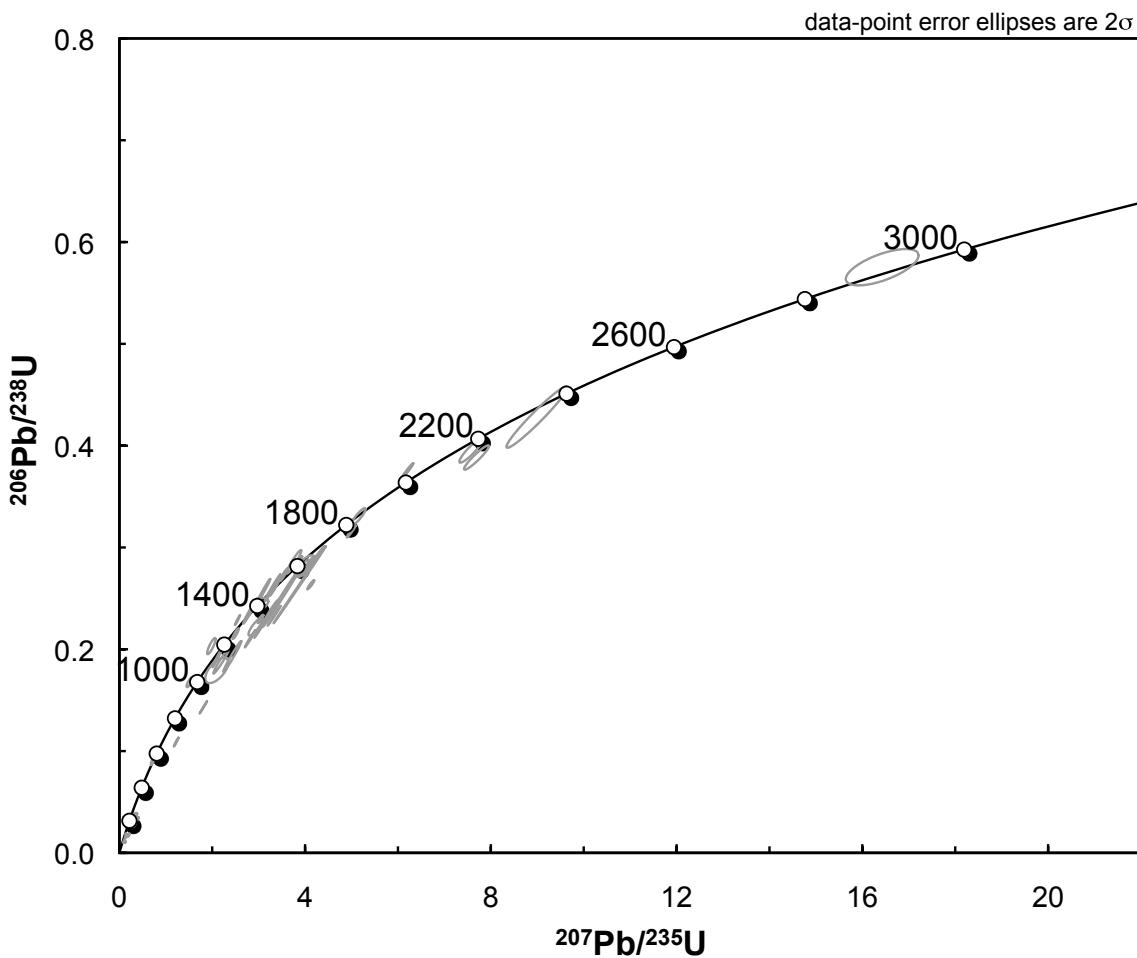
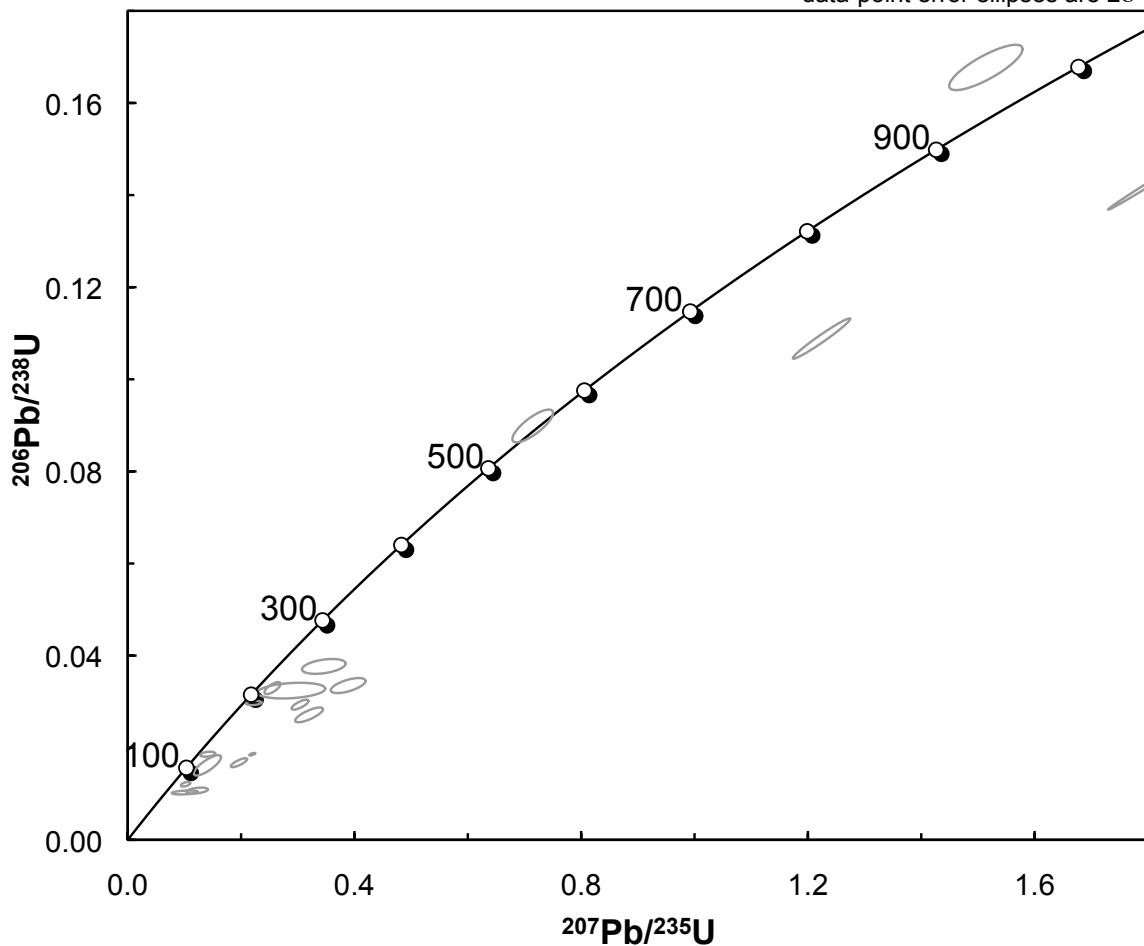
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GM-C-051508-1 (Z8)

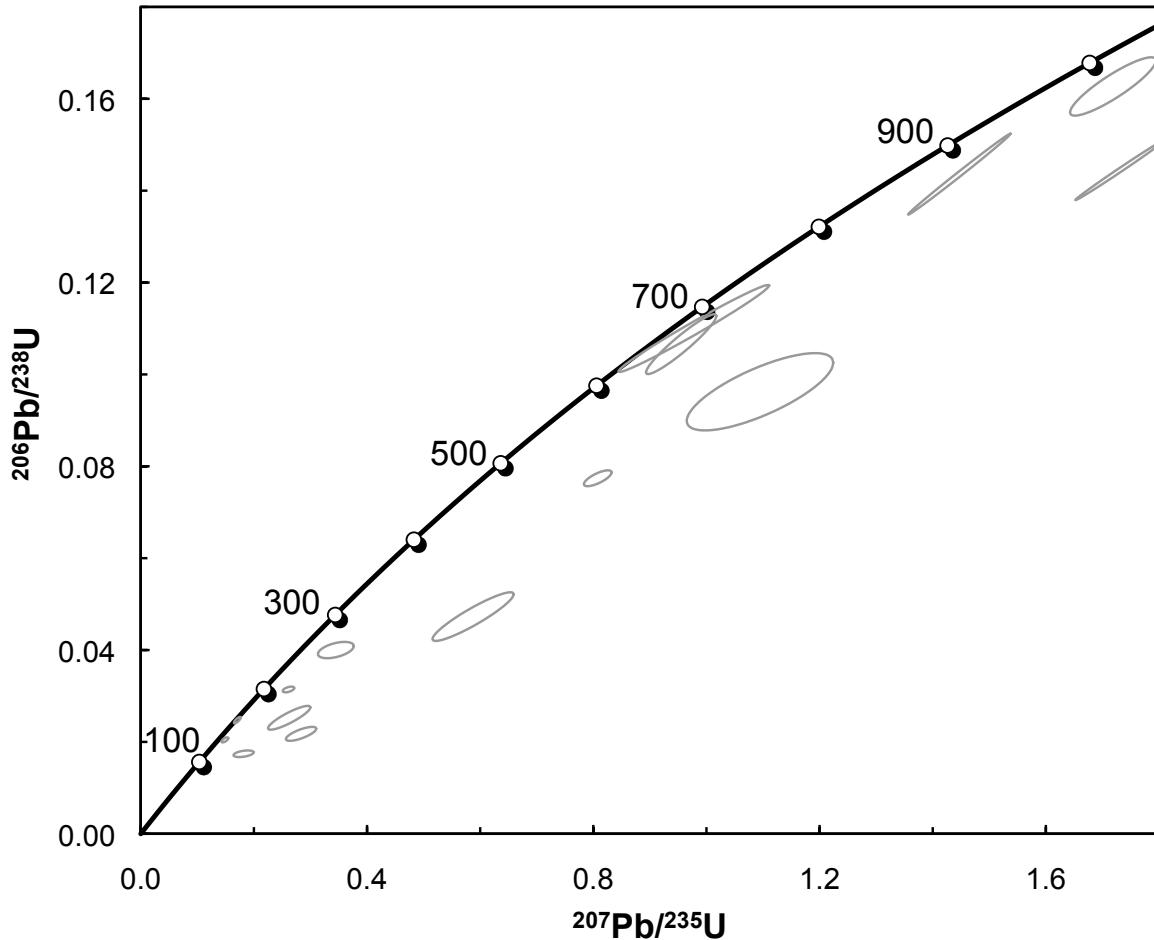
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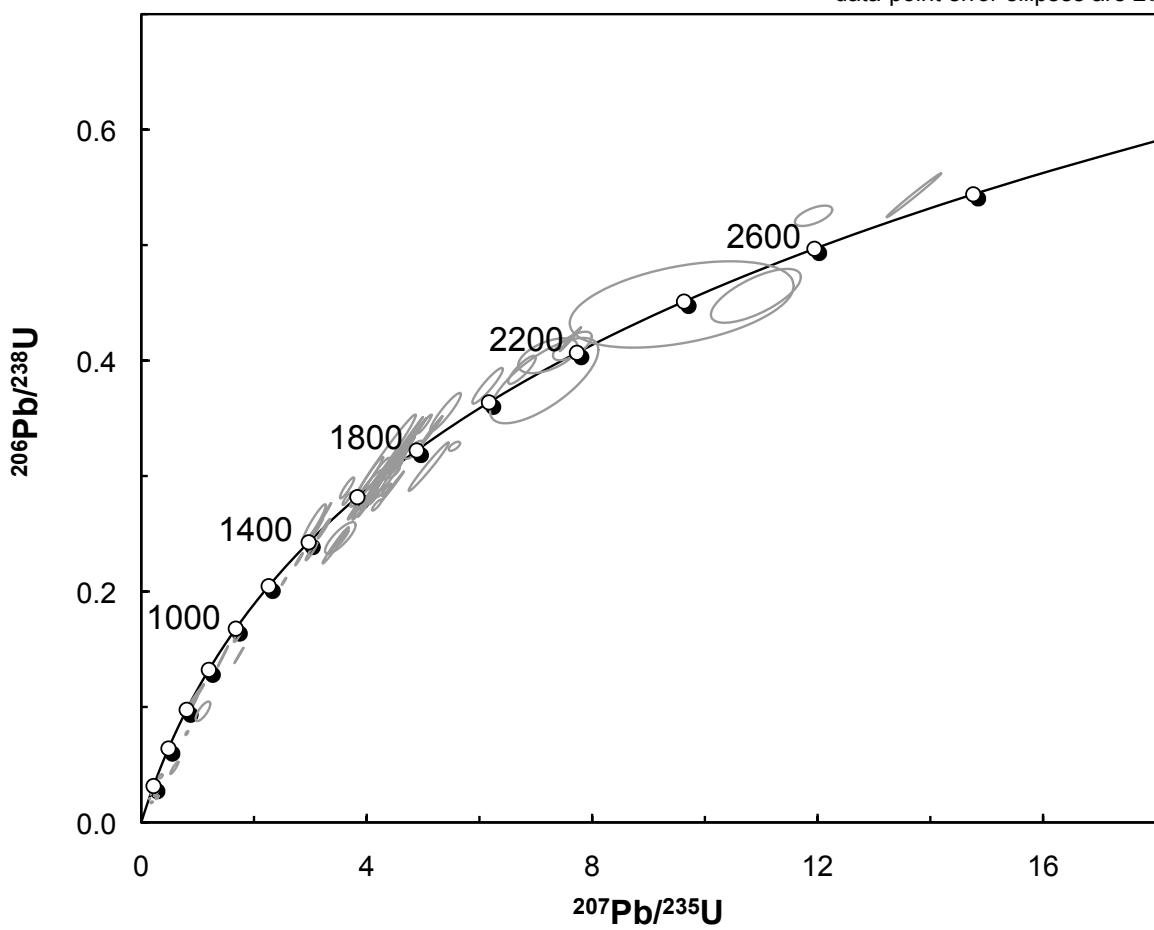
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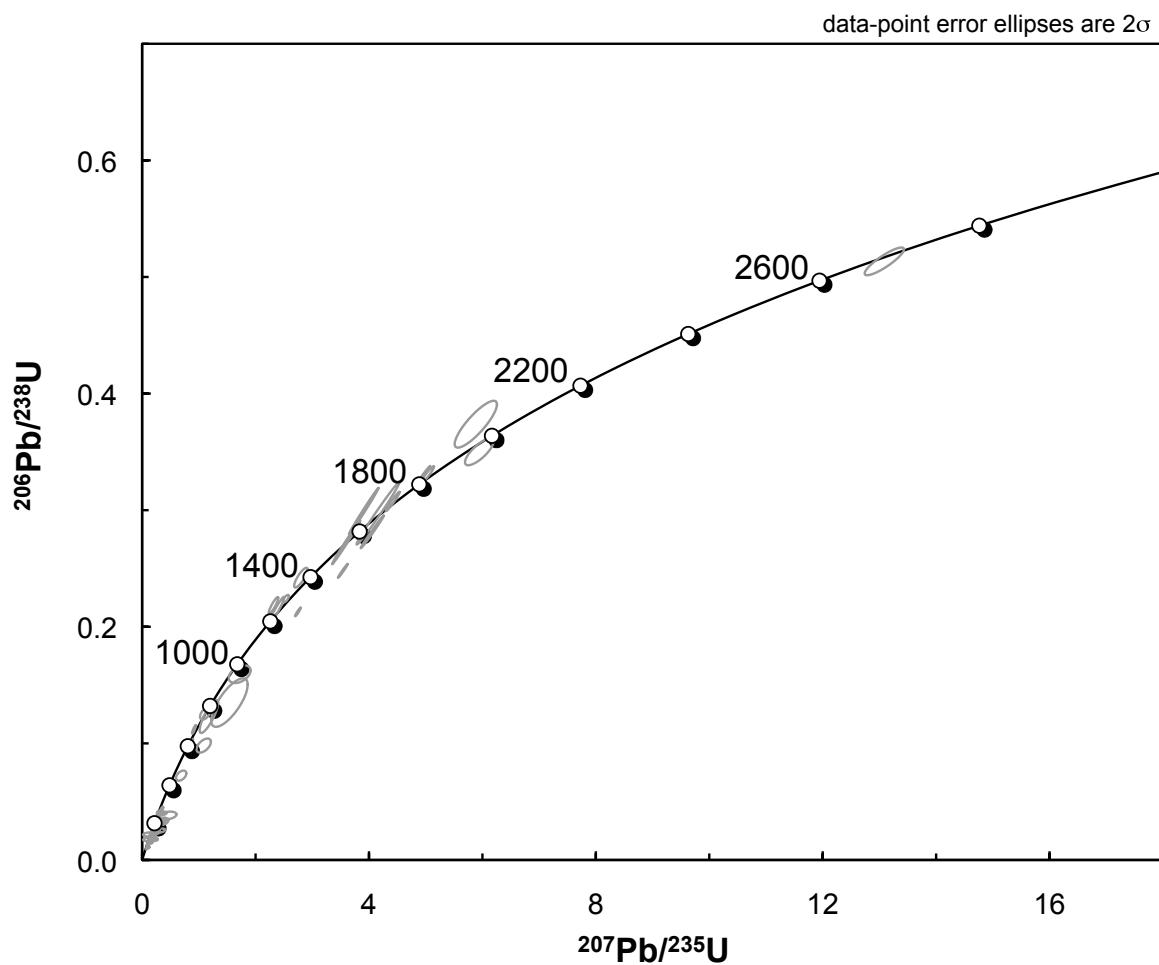
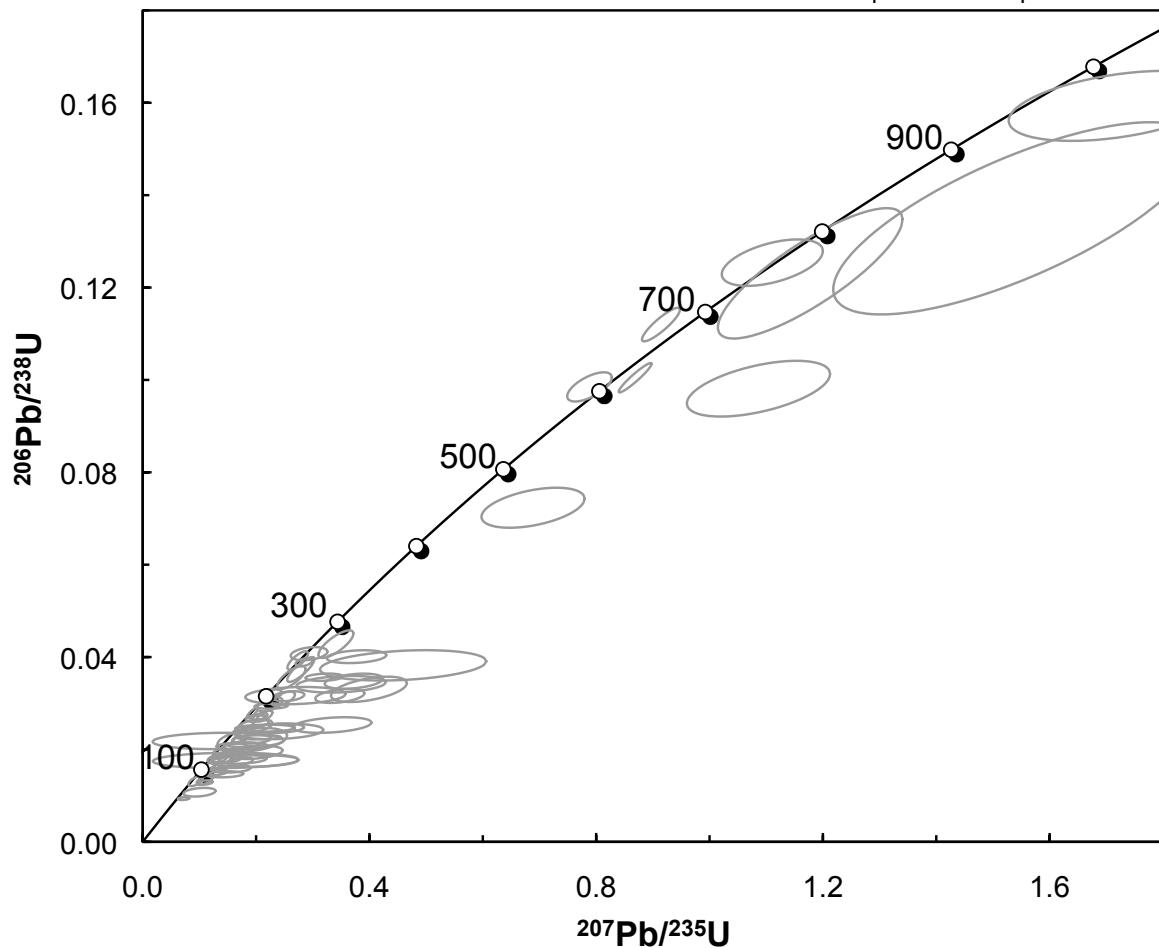
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data-point error ellipses are 2σ



GM-W-051508-3 (Z3)

data-point error ellipses are 2σ 

GM-W-051608-4 (Z2)

data-point error ellipses are 2σ 