USU LUMINESCENCE LABORATORY http://usu.edu/geo/luminlab
1770 North Research Parkway, Suite 123, North Logan, Utah 84341

USU Lab # _____
Project # _____

SAMPLE SUBMITTAL SHEET FOR LUMINESCENCE DATING OF SEDIMENT

1. Please refer to the sampling guides available at http://usu.edu/geo/luminlab/submit.html before collecting and submitting OSL samples. **Follow shipping directions listed at bottom of form.**
2. A completed sample sheet must accompany each sample, for projects with >5 samples use the Excel sample sheet. **Fill out with as much detail as possible in the field.**
3. Embargo Age results for 5 years? ☐ YES | ☐ NO = OK for data to be included in an on-line database.

SCIENTIST & AFFILIATION:		**DATE:**
PROJECT & SAMPLE LOCATION:		
OSL SAMPLE NUMBER:		
ANALYSIS REQUESTED (circle)	**Small-aliquot Single-grain RUSH (=2x price)**	
REQUIRED for Dose Rate calculation. **DOSE RATE SAMPLE NUMBER** - use similar to OSL sample, include DR in name. Should be a representative sample of sediment from10-cm radius of OSL tube.		
REQUIRED for Dose Rate calculation. **WATER CONTENT SAMPLE NUMBER** In air tight container, include H_2O in name.		
Needed for cosmogenic contribution to the dose rate. **BURIAL DEPTH** (in meters) Include notes on buried soils and recent deposition/erosion that may influence burial-depth history. Do not collect from <1 meter depth due to contamination with young grains and problems with dose rate calc.		
Needed for cosmogenic contribution to the dose rate. **ELEVATION** (in km above sea level)		
Needed for cosmogenic contribution to the dose rate. **LATITUDE/LONGITUDE** (in decimal degrees)		
Needed for cosmogenic contribution to the dose rate. **ESTIMATED AGE** (other age control)		
DESCRIPTION OF MOISTURE HISTORY (Is the sample representative of burial history?, explain)		Lab Use Only H_2O Content:
SAMPLE TYPE (circle one)	**TUBE BLOCK CORE** QTY:_____	
COLLECTION TYPE OF TUBE/ ENDCAPS DO NOT use PVC tubes or caps, or threaded metal end caps; they are very difficult to remove during sample extraction in the dark lab.	Tube: **METAL** OTHER:_____ End caps: **RUBBER** OTHER:_____	
SEDIMENTARY/STRATIGRAPHIC DESCRIPTION: (submit pictures/drawings - attach to back)		

SAMPLING PROCEDURE CHECKLIST: **Return OSL tubes?** ☐ **N** ☐ **Y** (will incur shipping charges)

- ☐ Sampled representative sediment environmental dose rate from 10-cm radius (in 1 qt/L zipbag)
- ☐ Sampled for moisture content (in film canister or air tight container), include description of history
- ☐ Sampled at >1m depth
- ☐ **Tube is tightly packed**, used styrofoam or duct tape plug in tube to avoid mixing and shaking
- ☐ Targeted fine-medium sand lenses (preferably >30 cm thick), avoid clay layers < 30 cm away
- ☐ Cleared outcrop back to fresh exposure
- ☐ Avoided bioturbation, soils and underlying erosional unconformities
- ☐ Primary sedimentary structures seen
- ☐ Documented with photos, measured sections

SHIP SAMPLES TO:
USU Luminescence Lab
1770 North Research Parkway
Suite 123
North Logan, UT 84341

Label all samples and package: 'Light-sensitive mineral samples for geologic analysis. All material will be consumed in analysis. No monetary value'.

International samples: Send via international shipping company such as UPS, FedEx, DHL, TNT, do not use local postal service.

Email tracking number to: tammy.rittenour@usu.edu ; michael.strange@usu.edu