

Risk Assessment Form (3)

Must be completed before experimentation.

Student's Name(s) Matthew Daleo and Evan Lockwood

Title of Project Elemental Composition of Fossilized Ceratopsidae and Dromaeosauridae Teeth from the Lance Formation, Wyoming, USA

To be completed by the Student Researcher(s) in collaboration with Designated Supervisor/Qualified Scientist:
(All questions must be answered; additional page(s) may be attached.)

1. List all hazardous chemicals, activities, or devices that will be used; identify microorganisms exempt from pre-approval (see Potentially Hazardous Biological Agent rules).
 1. Synchrotron Light Source at Brookhaven National Laboratory in Upton, NY
 2. Collection of fossilized teeth from a ranch in Wyoming
2. Identify and assess the risks involved in this project.
 1. There may be radiation associated with the beamlines in case of mechanical failure, or negligence in following proper safety procedures.
 2. We may suffer injuries from unsteady terrain, dehydration, or other outdoor physical injuries.
3. Describe the safety precautions and procedures that will be used to reduce the risks.
 1. We will be trained in radiation safety prior to beginning of our research, and trained each time we begin working at a new beamline, and will wear a thermoluminescent dosimeter to quantify any radiation exposure which will be read by BNL safety office.
 2. We will wear protective clothing, bring water and follow the advice of our supervisor, guides, and the on site medical professional at all times.
4. Describe the disposal procedures that will be used (when applicable).

N/A
5. List the source(s) of safety information.

Standard operating procedure for NSLS-2 Beamline users
<https://www.bnl.gov/ps/>

To be completed and signed by the Designated Supervisor (or Qualified Scientist, when applicable):
I agree with the risk assessment and safety precautions and procedures described above. I certify that I have reviewed the Research Plan/Project Summary and will provide direct supervision.

Dianna Gobler

Designated Supervisor's Printed Name

Signature

06/01/2020

Date of Review (mm/dd/yy)

Science Teacher, Westhampton Beach High School

Position & Institution

goblerd@whbschools.org

Phone or email contact information

User Training at NSLS-2 July 2018, Assisted in Beamline experimentation on all Beamlines in 2019-2020,

Experience/Training as relates to the student's area of research