



Ascenté Residential Development Lead Soil Sampling

Presented by
Joseph McGinley, PE, PG, CEM

Overview

- McGinley and Associates (MGA) was contracted by Symbio Development, LLC to perform a screening level analysis to assess for the presence of lead in soils within their proposed development
- Symbio elected to perform the sampling based on concerns from the surrounding community and were not required by any regulatory authority
- There was no evidence of lead contamination
- The results of our screening level assessment were provided in our October 3, 2016 report
- Mr. John Beach provided comments on our report in his letters dated December 30, 2016 and May 10, 2017, and in his public comments at the May 11, 2017 CAB meeting

About MGA

- Environmental Engineering and Science firm founded in Reno in 2001
- Offices in Reno and Las Vegas
- Approximately 25 employees
 - Engineers, Geologists, Hydrogeologists, Environmental Scientists
 - Professional Engineering and Geology Licensure
 - Nevada Certified Environmental Managers
- Highly trusted and respected firm by countless clients and regulatory authorities
 - Currently hold three State contracts with the State of Nevada related to environmental site assessment and remediation (three out of six total)
 - Have at one time held nearly every major State contract associated with environmental assessments and remediation
 - Performed third party review on behalf of the State of Nevada for 15 years on one of the largest environmental remediation projects in the United States (BMI Complex in Henderson, NV)

Personnel Qualifications

- **Joseph McGinley, Principal**
 - Over 30 yrs environmental assessment and remediation experience in Nevada
 - Involved in vast majority of major NV environmental projects
 - B.S. Geological Engineering (UNR)
 - M.S. Civil Engineering (University of Colorado, Boulder)
 - Professional Engineer and Geologist
 - Nevada Certified Environmental Manager
- **Anthony Dimpel, Project Manager**
 - Over 5 yrs environmental assessment and remediation experience in Nevada
 - B.S. Civil Engineering (UNR)
 - M.S. Civil and Environmental Engineering (UNR)
 - Professional Environmental Engineer
 - Nevada Certified Environmental Manager
 - Part-time instructor in the Civil and Environmental Engineering Department at UNR

MGA Study Overview

- Screening Level Environmental Assessment
 - Purpose to assess for the presence of lead above conservative health based screening levels
 - Results of screening level assessment would indicate if a more rigorous study was required or warranted
 - Sampling design and approach referenced by Mr. Beach is for sites with known contamination at regulatory significant levels and/or verified sources of contamination
 - The proposed Ascenté project does not have either
- EPA Published Screening Level for lead in Residential Soils is 400 milligrams per kilogram (mg/kg)
 - Current as of today
 - MGA is currently utilizing this screening level on other projects in NV involving residential land use
 - Value of 80 mg/kg referenced by Mr. Beach could not be located in any EPA or Nevada Division of Environmental publications

Sampling Results

- 88 composite soil samples collected
 - Composite sample consists of five “sub-samples” mixed and homogenized into one sample
 - Highest concentration in composite sample: 18.4 mg/kg (less than 5% of the published EPA screening level of 400 mg/kg)
 - Mathematically impossible for any single sub-sample (440 total collected) to have had a concentration anywhere close to the concentration of concern (i.e. 400 mg/kg)
 - Composite sampling is an accepted practice which my firm has used and is currently using on projects involving metal contamination in soils with residential land use

Closing

- All data collected to date indicates that the lead concentrations in the soils are a small fraction of the concentration of concern and the expenditure of further resources to this matter is not warranted
- This is also the conclusion that the NDEP and Washoe County Health District came to upon reviewing our report and indicating no special conditions related to the alleged lead contamination would be necessary, nor did they require any further action
- Had the results of our screening level assessment indicated the presence of lead in the soils at concentrations anywhere near the concentration of concern than a more rigorous sampling design and data analysis like that referenced by Mr. Beach may have been warranted
- However, with the available data, it is not warranted or required

Thank you