General Outline for Geology of the Cities of the World Series Publication Submittals Notes November 7, 2018

By Robert Anderson

Series Editor/Coordinator

After preparing our own Geology of the Cities of the World publication and talking to several people about the series, I have rewritten the general outline for the series publications. I hope that this new general outline is less cumbersome and not as intimidating as the old outline. The following general outline is meant to be a guide for your Geology of fill-in-the-blank of the World submittal. It is only a suggested outline. *Remember, this publication is meant to be a legacy paper for your city and possibly the neighboring region.* Please discuss what should be in the publication with practitioners working in your city as well as academics. This is not an academic publication. It is for the practitioner with a secondary audience of academic, planners, engineers, decision makes and the public. Please see the Geology of Sacramento, California, United States of America paper’s table of contents for ideas for your outline. The paper can be found at <https://aeg.memberclicks.net/geology-of-the-cities-of-the-world>. The language of the series is English. If any other language is to be considered then the publication needs to be developed in both English as well as the other language. The outline numbering itself is not to appear in the body of the text. If there is a topic that is left out of the outline, that you feel is important, then please add it with a brief explanation for the reader why is the topic important for the subject city and region. It is your publication! You should know that some submittals may be released as an eBook and others possibly as a publication on the AEG website.

 It is up to you as the lead author to find out what is particularly important for your city without going into too much detail. It is anticipated different cities will dwell to some degree on different topics more than other cities. That is ok. The font style to use is Arial 12-point. All graphics and images should have a resolution be at least 600 dots per inch and in full color. Fuzzy graphics will not be accepted. It is up to the authors to make sure that you have written permission to use all graphics and images. The word processing program to use is MS Word, latest version.

The general outline for the publication is presented below.

**Cover page** with image/ and region if discussed and author(s) names at the bottom. The AEG logo will be at the lower right-hand corner from the author’s name.

**Second page:** Credit for cover image.

**Foreword:** This is to introduce the publication to the readers.

**Preface:** This is prepared by the Series Editor/Coordinator. If the authors have someone that they want to write the preface other than me, then they should email me and let me know who they are and why. This may be a tool to help give a prominent person to support the paper/eBook.

**Table of Contents:** I like to use an outline to help me cover what we want to cover. This is one of the last items I complete as things tend to move around at least by page number.

**Abstract:** I usually write an abstract when formulating the idea for a paper and use it to recruit help. I usually change the abstract as we develop the paper at least once and sometimes twice. I always check what the abstract says when the text is written, but before the submittal is finalized to make sure it reflects the paper in a way we meant to.

**Chapter. 1** Introduction and Background:

History of the area and city:

Why was the area settled and by whom?

When was the city founded?

Please include historic buildings or places

Importance of geography of and on the city and region including rivers, lakes, bays and mountains or plains.

Transportation description are always requested

Ports and harbor,

Railway or airline hubs

Major highways

Importance of location and the city’s importance to the regional economy

**Chapter 2. Geology**

Introduction

Tectonic and Regional Geologic Setting. A description of both the tectonic and regional settings need to be included in the submittal.

Geography and Geomorphology

Quaternary Geology

Stratigraphy

Paleontology

Bedrock Geology

Agriculture, soils and geology is appropriate to your city

Structural Geology

A discussion of the geologic history of the city location and surrounding area as well as a geologic column is to be included. Each of the major geologic issues to be covered above need to be tied into the geologic history and geologic column as well as into the Tectonic and Regional Geologic setting.

**Chapter 3. Natural Resources**

This is the most important topic in the natural resources chapter.

Where does the city’s water come from? Please describe all major surface and ground water sources including all basins in the area used by the city.

What is the quality and quantity of surface and ground water.

Is there enough water to support the city?

Is groundwater recharge done in the city or nearby?

Is there a shortage of water? Is water brought in by a water transmission system from elsewhere to the city?

What is done with waste water? Is it used as a tertiary water source?

Nonmetallic resources

Clays

Sands and gravels

Building stone

Other (Oil and Gas)?

Metals- Obviously some cities will not be located near metal deposits. This part only applies to you if you have metals (say within 50 km or so ) near you.

**Chapter 4. Natural Hazards**

What are the most prominent natural hazards that affect the city?

Is flooding the most prominent hazard?

Please describe the history of flooding, what have been the results of flooding, why is flooding so bad in or near the city and what has been done to mitigate flooding.

Are landslides/debris flows the prominent hazard? If so why? What type of slides are the most common and why? Have they been mapped? How are potential landslides, debris flows and rock sides mitigated?

Are/or have earthquakes, tsunami or volcanic hazards a significant threat to the city.

Please include a chronology of earthquakes, tsunamis and volcanic eruptions that affected you city (this should be done in a tabular format if you wish). The table should describe how and why you city was affected by the hazard.

Are there other natural hazards such as nutrition poor soils, collapsing soils, or sea level rise.

**Chapter 5. Environmental Issues** what natural or human caused environmental problems are present in the city and what is being done to remediate them? Typically, this include environmental assessment of select problem sites and their remediation. The development of properties that may have had an environmental problem before. Another topic could be the identification, assessment and mitigation of naturally occurring environmental hazards such as mercury, arsenic, lead, copper, or asbestos. You should talk about the impact of sea level rise of climate change if it affects your city.

**Chapter 6. Engineering Projects** Please describe a few representative and unique engineering projects and how they relate the geology of the city or a nearby area.

Infrastructure examples usually make a great subject for interest to your readers, please include a few examples from the view point of a geologist, with images.

Unusual or tall buildings-I would suggest a few examples that would be of interest to your readership.

**Chapter 7. Conclusion/Final Statement**

This should be closing statement for the paper that shows possibly the impact of the geology has had on the city and its development and possibly it’s future.

**Acknowledgments** This part should acknowledge all staff support, reviewers and others who helped create the publication.

**Biographies**

This part should have a one or two paragraph biography with a picture of each author’s face.

**Chapter 8. References** This is perhaps one of the most important parts of the publication since it will give the reader some leads on additional information as well as points of contact by topic.

As always, if you need a hand please contact me at 1 916 598 3045 or at bobanderson816@gmail.