Instructions for Foundry IH Project – Exposure Assessment of the Shell Core Area

Each student is to put themselves into the shoes of the IH that is hired by the foundry management to come in and complete a survey of the Shell Core area. Employees have been complaining of eye, nose and throat irritation, and asked management to hire someone to evaluate this area. The manager, Mr. X called you and approved 2-days of on-site sampling. He provided you with SDSs for the raw materials in this area. Based on your review of the SDSs and research on the typical hazards found in a foundry, you choose to sample for 3 environmental agents (you can adjust this to meet your class / course specific needs). You will be provided with results for the following and can select 3 of your choice (again, adjust to meet your class / course needs):

- Noise
- Total dust
- Respirable dust
- Respirable Crystalline Silica
- Phenol
- Formaldehyde
- CO

Watch the following video to gain a better perspective on the work performed in the Shell Core area:

Shell Core Area Narrated Video:

https://youtu.be/KDJZ62KXWqY

Using one (or any combination of the following tools) the AIHA IHSTAT™, Expostats, or IHDA-AIHA analyze your samples and write a report to management on your findings. Links to all of these tools are available on the AIHA website at this URL: https://www.aiha.org/public-resources/aiha-academic-portal/roadmap-1-self-study-using-the-standalone-online-training-and-assessment/free-powerful-and-easy-to-use-statistical-tools
Professors or instructors should provide an example report for your students to follow. Here is an example. I will provide an example that you can use if you choose to do so. If you do provide an example report, use a statement like the following in your assignment announcement:

You are also provided an example consultant IH report to follow. You have a good deal of editorial privilege in this assignment. You can make up the name of the facility, the manager, date of visits, etc. You can also develop a different style report if you have other examples of a consultant IH report you want to follow.