**Laboratory 13 Answer Sheet**

For use with the AGI/NAGT Laboratory Manual in Physical Geology, 12th ed.

**INSTRUCTIONS**

(1) Your responses on this answer sheet must be the result of **your work alone.** This is not a group-work exercise.

(2) This answer sheet with your responses is a **confidential document** that you must not provide to anyone else or to any group file (digital or paper) where others might gain access to the answers.

(3) Before you submit it to your TA for grading, **you must rename this document with your first and last names in the title**. So if the answer sheet was submitted by Yvon Chouinard, the document (saved as a Word file) would be renamed Yvon-Chouinard-Lab13Answers.docx

(4) Send this form, completed, to your graduate teaching assistant in an email from your Baylor email account. Be certain that the **subject line is your first and last name plus "Lab 13 answers."** So if this answer sheet was submitted by Yvon Chouinard, the subject line of the email would be " Yvon Chouinard Lab 13 answers." **Include this completed document in the email as an attachment.**

 All Tuesday labs: Jane Doe Jane\_Doe1@baylor.edu

 Wednesday 12:20-2:25 lab: Janet Doe Janet\_Doe1@baylor.edu

 Wednesday 2:30-4:25 lab: Janelle Doe Janelle\_Doe1@baylor.edu

 All Thursday labs: John Doe John\_Doe1@baylor.edu

(5) Wherever you encounter <response> in the raw answer sheet, **replace** <response> **with your answer or response.**

 EXAMPLE

 What is your favorite color? <response> might become

 What is your favorite color? baby blue

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**Your Name:** <response>

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**Activity 13.1 Groundwater Inquiry**

A-1 <first response>

 Why? <response>

A-2 <first response>

 Why? <response>

B Look at the videos posted at <https://croninprojects.org/AGI-NAGT-Lab-Manual/CroninGWVideos.html>

B-1 <response>

B-2 <response>

B-3 <response>

 Why? <response>

C This response involves drawing on Figure A13.1.3 (page 354 in the paper version of the lab manual). ***Be quite certain that the drawn lines and labels on the version you submit for credit are clear and legible, perhaps by going over them with a dark pencil or pen.***

Students who are using the etext can print a copy of Figure A13.3.1 to work on.

(1) Scan or photograph the completed graph

(2) Get the image file onto the computer you are using to complete this Word document. For example, you can take a picture of the profile box with your smartphone, send it to yourself via text or email, and download the graphics file to your computer.

(3) Open this word document with your Lab 13 answers

(4) Highlight the response prompt

(5) Go to the "Insert" drop-down menu in the menu bar at the top of the page, select "Pictures" and "Picture from file..."

(6) Choose the graphics file you just downloaded.

The graphic should now be a part of this Word answer document.

 The response prompt for Activity 13.1 part C is on the next line:

<response>

 Contact your teacher if you run into trouble uploading your answer.

 How is the distance of the water jet related (if at all) to the height of water in the bottle? <response>

 Why? <response>

D <response>

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Activity 13.2 Where is the Nasty Stuff Going?

If you are not familiar with the process of contouring data, which is needed to complete part A, you should study Laboratory 9 Topographic Maps, the section entitled "What Are Topographic Maps" on pages 244-249. Pay particular attention to Figures 9.11-9.14.

A&B This response involves drawing on Figure A13.2.1 (page 355 in the paper version of the lab manual). ***Be quite certain that the drawn lines and labels on the version you submit for credit are clear and legible, perhaps by going over them with a dark pencil or pen.***

Students who are using the etext can print a copy of Figure A13.2.1 to work on.

When you complete your graphics work on Figure A13.2.1, ...

(1) Scan or photograph the completed map in Figure A13.2.1

(2) Get the image file onto the computer you are using to complete this Word document. For example, you can take a picture of the profile box with your smartphone, send it to yourself via text or email, and download the graphics file to your computer.

(3) Open this word document with your Lab 13 answers

(4) Highlight the response prompt

(5) Go to the "Insert" drop-down menu in the menu bar at the top of the page, select "Pictures" and "Picture from file..."

(6) Choose the graphics file you just downloaded.

The graphic should now be a part of this Word answer document.

 The response prompt for Activity 13.2 parts A and B is on the next line:

<response>

 Contact your teacher if you run into trouble uploading your answer.

C <response>

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Activity 13.3 Using Data to Map the Flow of Groundwater

A-1 <response> ft.

A-2 <response> ft.

A-3 <response> ft.

B&C This response involves drawing on Figure A13.3.1 (page 356 in the paper version of the lab manual). ***Be quite certain that the drawn lines and labels on the version you submit for credit are clear and legible, perhaps by going over them with a dark pencil or pen.***

Students who are using the etext can print a copy of Figure A13.3.1 to work on.

When you complete your graphics work on Figure A13.3.1, ...

(1) Scan or photograph the completed cross secton in Figure A13.3.1

(2) Get the image file onto the computer you are using to complete this Word document. For example, you can take a picture of the profile box with your smartphone, send it to yourself via text or email, and download the graphics file to your computer.

(3) Open this word document with your Lab 13 answers

(4) Highlight the response prompt

(5) Go to the "Insert" drop-down menu in the menu bar at the top of the page, select "Pictures" and "Picture from file..."

(6) Choose the graphics file you just downloaded.

The graphic should now be a part of this Word answer document.

 The response prompt for Activity 13.3 parts B and C is on the next line:

<response>

 Contact your teacher if you run into trouble uploading your answer.

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Activity 13.6 Land Subsidence from Groundwater Withdrawal

A-1 <response>

A-2 <response>

A-3 <response>

A-4 <response>

 Explain your reasoning. <response>

A-5 <response>

 Explain. <response>

A-6 <response>

A-7 (a) <response> ft.

 (b) <response> ft

 (c) <response>

 (d) <response>

 (e) <first response>

 <second response>

 (f) <response>

B <response>