



**Seneca
Companies**

CON 12-15
Doc #27339

**HEADQUARTERS
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The Complete Solution

July 26, 2012

Mr. Matt Culp
Contaminated Sites Section
Iowa Department of Natural Resources
Wallace State Office Building
Des Moines, IA 50319

Subject: Submittal of the Work Plan for City of Clarinda Firing Range Located in Clarinda, Iowa.

Dear Mr. Culp:

Seneca Environmental Services is submitting the enclosed work plan on behalf of our client, City of Clarinda.

Per our meeting and discussion on July 26, 2012, the following sampling scheme for the Site Assessment was discussed.

A 25 foot by 25 foot grid will be laid out on the floor of the firing range. Seneca will collect three (3) soil samples from random locations at a depth of 0-6 inches below the surface within each grid and composite them. Soil samples from the same locations will also be collected from a depth of 6 – 12 inches and composited. Samples will be screened to remove whole bullets and large bullet fragments subsequent to compositing. The samples will be submitted to an accredited laboratory for analysis of lead and antimony. If the 0-6" sample is greater than the Iowa Statewide Standard for Lead and Antimony in Soil (400 mg/kg, 31 mg/kg, respectively), the sample from 6"-12" will be analyzed.

A 5 foot by 5 foot grid will be laid out on the impact side of the berm. Seneca will collect three (3) soil samples from random locations and composited within each grid from depth ranges 0-6", 6"-12", 12"-18", and 18"-24" from each location. A 5 foot by 5 foot grid will be laid out on the side berms from the target line to the face of the berm. Three (3) random soil samples within each grid will be collected from 0 – 6" and composited. The samples will be screened to remove whole bullets and large bullet fragments. Samples will be submitted to an accredited laboratory for analysis of lead and antimony. If the 0-6" sample is above the Iowa State Standard for Lead and Antimony in Soil (400 mg/kg, 31 mg/kg, respectively), the next deepest sample will be analyzed and continue to analyze the progressively deeper samples until the analytical result is below the Iowa Statewide Standard for Lead and Antimony in Soil.

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Enclosed are the drawings of the planned grids.

Once the Site Assessment has been completed a Remedial Action Plan will be developed and submitted to the IDNR for review and acceptance.

If you have any questions regarding the accompanying Work Plan, I can be reached at 515-261-7723 or by emailing me at bkussatz@senecaco.com.

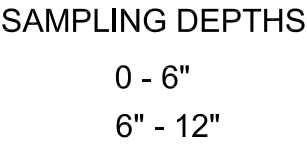
Sincerely,
Seneca Companies

A handwritten signature in black ink, appearing to read "Blaine Kussatz". The signature is fluid and cursive, with the first name "Blaine" written in a larger, more prominent script than the last name "Kussatz".

Blaine Kussatz, CHMM
Project Manager

cc: Gary McClarnon – City of Clarinda

File: Seneca Companies, Des Moines, IA



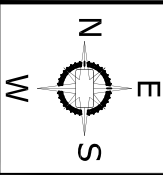
JOB DESCRIPTION:

CITY OF CLARINDA - FIRING RANGE

CLARINDA, IA

SHEET TITLE:

SCALED SITE MAP - FIRING RANGE SAMPLING GRID

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