

DATE: 11/11/2011  
TIME: 10:00 AM  
PROJECT: 1111111111  
DRAWING: 1111111111

# COLLINS GERMAN

111 SOUTH AVENUE  
STATE, MARIETTA, GA 30067  
T. 770.444.1111 F. 770.444.1111

**PROJECT**

**LAKE CHELAN  
COMMUNITY  
HOSPITAL**

111 SOUTH AVENUE  
BIRMINGHAM, AL 35203  
CHELAN, VA 22613

**OWNER**

**LAKE CHELAN  
HOSPITAL**

111 SOUTH AVENUE  
BIRMINGHAM, AL 35203  
CHELAN, VA 22613

**ARCHITECT**

**COLLINS GERMAN**

111 SOUTH AVENUE  
STATE, MARIETTA, GA 30067  
T. 770.444.1111 F. 770.444.1111

**PROJECT NO.**

1111111111

**DATE**

11/11/2011

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10:00 AM

**PROJECT NO.**

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# CSI: Construction Special Inspection

## MATERIALS TESTING & SPECIAL INSPECTION

1250 N. Wenatchee Ave, Ste. H135

Wenatchee, WA 98801

509-664-4843

### DAILY REPORT

DATE: 7/29/2023  
CLIENT: Lake Chelan Comm Hospital  
PROJECT NO.: 21-  
PROJECT: 110 S Apple Blossum Dr, Chelan  
CONTRACTOR: Client

WEATHER	CLEAR	PT. CLOUDY	OVERCAST	RAIN	SNOW
TEMP.	10-32	33-50	51-70	71-85	86+
WIND	STILL	MOD.	HIGH		
HUMIDITY	DRY	MOD.	HUMID		

12:15 pm Enroute to job site.

1:45 pm Arrived on site to perform inspection of west area of Hospital parcel no. 272318627013 for soil capping remediation.

Walked the entire site west of the service road entrance to hospital beyond the chain link fence to inspect the soil capping for that area which had not been done previously with the area around the site of immediate hospital building complex. Took photos of the soil compaction areas.

All of this soil capping for the area beyond the chain link fence west and north of the entrance road have been capped with 6 inch plus or minus with clean imported fill. Geotextile material was observed under those edges of the entire perimeter as was required. The site had been graded so as to slope appropriately to the drainage swales and infiltration basins as per required on the construction storm water plans.

All indications of the fill material showed consistency of the imported fill materials as being compliant for earth fill capping. Soil test samples are to be retrieved by CSI - Derek Nyland next to confirm that fill materials meets the arsenic and lead requirements for the imported materials for capping.

See attached photos taken during site inspection on 7/29/2023.

2:10 pm Offsite.

TECHNICIAN: Dave Schettler PROJECT MGR: J. Hills





LCCH – Looking East at soil capped area west of Service Entrance Rd just north of Apple Blossom Dr



LCCH – Looking East towards Hospital Building at soil capped area west of Service Entrance Rd





LCCH – Looking South at soil capped area at far west side at the property line area



LCCH – Looking West towards Hospital entrance road at soil capped area north near parcel property line



CSI NW  
Derek Nyland

DATE REC 7-Aug-23  
Amount due \$ 252.00  
LAB # S23-15102  
Date Reported: 08/11/22

Received by: Brent Thyssen, CPSSc

LAKE CHELAN HOSPITAL

Heavy Metals

WAC 173-340-900

1	Method	Dry Wt.	Units	MDL	MTCA Method A
Arsenic	EPA 3050B/ 6010D	2.00	mg/kg	1.05	20 ppm
Lead	EPA 3050B/ 6010D	4.94	mg/kg	0.87	250 ppm
S23-15102					

Heavy Metals

WAC 173-340-900

2	Method	Dry Wt.	Units	MDL	MTCA Method A
Arsenic	EPA 3050B/ 6010D	3.79	mg/kg	1.05	20 ppm
Lead	EPA 3050B/ 6010D	2.87	mg/kg	0.87	250 ppm
S23-15103					

Heavy Metals

WAC 173-340-900

3	Method	Dry Wt.	Units	MDL	MTCA Method A
Arsenic	EPA 3050B/ 6010D	4.79	mg/kg	1.05	20 ppm
Lead	EPA 3050B/ 6010D	2.29	mg/kg	0.87	250 ppm
S23-15104					

Heavy Metals

WAC 173-340-900

4	Method	Dry Wt.	Units	MDL	MTCA Method A
Arsenic	EPA 3050B/ 6010D	2.47	mg/kg	1.05	20 ppm
Lead	EPA 3050B/ 6010D	3.16	mg/kg	0.87	250 ppm
S23-15105					

Heavy Metals

WAC 173-340-900

5	Method	Dry Wt.	Units	MDL	MTCA Method A
Arsenic	EPA 3050B/ 6010D	1.93	mg/kg	1.05	20 ppm
Lead	EPA 3050B/ 6010D	0.81	mg/kg	0.87	250 ppm
S23-15106					

Heavy Metals

WAC 173-340-900

6	Method	Dry Wt.	Units	MDL	MTCA Method A
Arsenic	EPA 3050B/ 6010D	2.72	mg/kg	1.05	20 ppm
Lead	EPA 3050B/ 6010D	2.13	mg/kg	0.87	250 ppm
S23-15107					



# WASHINGTON STATE DEPARTMENT OF ECOLOGY

## ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM

### SCOPE OF ACCREDITATION

#### Soiltest Farm Consultants, Inc. Laboratory

#### Moses Lake, WA

is accredited for the analytes listed below using the methods indicated. Full accreditation is granted unless stated otherwise in a note. EPA is the U.S. Environmental Protection Agency. SM is "Standard Methods for the Examination of Water and Wastewater." SM refers to EPA approved method versions. ASTM is the American Society for Testing and Materials. USGS is the U.S. Geological Survey. AOAC is the Association of Official Analytical Chemists. Other references are described in notes.

Matrix/Analyte	Method	Notes
<b>Drinking Water</b>		
Turbidity	SM 2130 B-2011	
Fluoride	SM 4500-F <sup>-</sup> C-2011	
Nitrate as N	SM 4500-NO <sub>3</sub> <sup>-</sup> F-2011	
Nitrite as N	SM 4500-NO <sub>3</sub> <sup>-</sup> F-2011	
<b>Non-Potable Water</b>		
n-Hexane Extractable Material (O&G)	EPA 1664A_1_1999	
Turbidity	SM 2130 B-2011	
Alkalinity	SM 2320 B-2011	
Hardness (calc.)	SM 2340 B-2011	
Specific Conductance	SM 2510 B-2011	
Solids, Total	SM 2540 B-2011	
Solids, Total Dissolved	SM 2540 C-2011	
Solids, Total Suspended	SM 2540 D-2011	
Chloride	SM 4500-Cl <sup>-</sup> E-2011	
Fluoride	SM 4500-F <sup>-</sup> C-2011	
Ammonia	SM 4500-NH <sub>3</sub> H-2011	
Nitrate as N	SM 4500-NO <sub>3</sub> <sup>-</sup> F-2011	
Nitrite as N	SM 4500-NO <sub>3</sub> <sup>-</sup> F-2011	
Nitrogen, Total Kjeldahl	SM 4500-Norg D-2011	
Orthophosphate as P	SM 4500-P E-2011	1
Phosphorus, Total	SM 4500-P E-2011	1
Sulfate	SM 4500-SO <sub>4</sub> <sup>-</sup> E-2011	
Biochemical Oxygen Demand (BOD), Carbonaceous BOD (CBOD)	SM 5210 B-2011	1
Chemical Oxygen Demand (COD)	SM 5220 D-2011	
Aluminum	EPA 200.5_4.2_2003	
Antimony	EPA 200.5_4.2_2003	

Washington State Department of Ecology

Effective Date: 9/8/2022

Scope of Accreditation Report for Soiltest Farm Consultants, Inc. Laboratory

C605-22

Laboratory Accreditation Unit

Page 1 of 3

Scope Expires: 9/7/2023



Soiltest Farm Consultants, Inc. Laboratory

Matrix/Analyte	Method	Notes
<b>Non-Potable Water</b>		
Arsenic	EPA 200.5_4.2_2003	
Barium	EPA 200.5_4.2_2003	
Beryllium	EPA 200.5_4.2_2003	
Cadmium	EPA 200.5_4.2_2003	
Chromium	EPA 200.5_4.2_2003	
Cobalt	EPA 200.5_4.2_2003	
Copper	EPA 200.5_4.2_2003	
Iron	EPA 200.5_4.2_2003	
Lead	EPA 200.5_4.2_2003	
Lithium	EPA 200.5_4.2_2003	1
Manganese	EPA 200.5_4.2_2003	
Molybdenum	EPA 200.5_4.2_2003	
Nickel	EPA 200.5_4.2_2003	
Selenium	EPA 200.5_4.2_2003	
Silver	EPA 200.5_4.2_2003	
Strontium	EPA 200.5_4.2_2003	
Vanadium	EPA 200.5_4.2_2003	
Zinc	EPA 200.5_4.2_2003	
Calcium	EPA 200.7_4.4_1994	
Magnesium	EPA 200.7_4.4_1994	
Phosphorus	EPA 200.7_4.4_1994	1
Potassium	EPA 200.7_4.4_1994	
Sodium	EPA 200.7_4.4_1994	
<b>Solid and Chemical Materials</b>		
Total carbon	AOAC 972.43	1
Nitrogen, Total	AOAC 990.3	1
Nitrogen, Total Kjeldahl	AOAC 990.3	1
Solids, Total, Fixed and Volatile	SM 2540 G-2011	
Ammonia	SM 4500-NH3 H-2011	1
Nitrate as N	SM 4500-NO3 <sup>-</sup> F-2011	1,2
Aluminum	EPA 6010D_(7/14)	
Antimony	EPA 6010D_(7/14)	
Arsenic	EPA 6010D_(7/14)	
Barium	EPA 6010D_(7/14)	
Beryllium	EPA 6010D_(7/14)	
Cadmium	EPA 6010D_(7/14)	
Calcium	EPA 6010D_(7/14)	

Washington State Department of Ecology

Effective Date: 9/8/2022

Scope of Accreditation Report for Soiltest Farm Consultants, Inc. Laboratory  
C605-22

Laboratory Accreditation Unit

Page 2 of 3

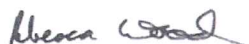
Scope Expires: 9/7/2023

Soiltest Farm Consultants, Inc. Laboratory

Matrix/Analyte	Method	Notes
<b>Solid and Chemical Materials</b>		
Chromium	EPA 6010D_(7/14)	
Cobalt	EPA 6010D_(7/14)	
Copper	EPA 6010D_(7/14)	
Iron	EPA 6010D_(7/14)	
Lead	EPA 6010D_(7/14)	
Magnesium	EPA 6010D_(7/14)	
Manganese	EPA 6010D_(7/14)	
Molybdenum	EPA 6010D_(7/14)	
Nickel	EPA 6010D_(7/14)	
Phosphorus, total	EPA 6010D_(7/14)	
Potassium	EPA 6010D_(7/14)	
Selenium	EPA 6010D_(7/14)	
Sodium	EPA 6010D_(7/14)	
Strontium	EPA 6010D_(7/14)	
Vanadium	EPA 6010D_(7/14)	
Zinc	EPA 6010D_(7/14)	
Mercury	EPA 7473_(2/07)	

**Accredited Parameter Note Detail**

(1) Interim accreditation pending the successful completion of an on-site audit to verify method capabilities (WAC 173-50-100). (2) Reported result is technically nitrate-nitrite, however nitrite values are negligible due to oxidizing conditions.



Authentication Signature  
Rebecca Wood, Lab Accreditation Unit Supervisor

09/12/2022

Date

Washington State Department of Ecology

Effective Date: 9/8/2022

Scope of Accreditation Report for Soiltest Farm Consultants, Inc. Laboratory  
C605-22

Laboratory Accreditation Unit

Page 3 of 3

Scope Expires: 9/7/2023

*Building Excellence  
Since 1944*

VIA EMAIL

September 5, 2023

Aaron Edwards c/o Dick Bratton  
LAKE CHELAN HEALTH  
110 S. Apple Blossom Drive  
Chelan, WA 98816

RE: LCCH REPLACEMENT HOSPITAL  
Lake Chelan Health  
Chelan, Washington  
Bouten Job #: K-711

Dear Mr. Edwards:

Please consider this letter as confirmation that contaminated soils on the LCCH Replacement Hospital Project were mitigated in compliance with the *Construction Soil Management Plan* (SMP) as issued by GeoEngineers and dated September 5, 2019.

The following measures were instituted on the project as noted in the listed section of the SMP:

- Section 3.0 – Site specific health and safety plan was generated by Travis Trent of Fulcrum Environmental Consulting. Components of this safety plan included a presentation of the hazards in a kickoff meeting with all subcontractor project managers and foremen, orientation training for individuals as they came onsite, and initial air monitoring for earthwork activities to determine level of precautions required and periodic monitoring there after to confirm conditions remained unchanged.
- Section 4.1 – All contaminated soils remained onsite per the contract documents. All new utility excavations were backfilled with clean imported material. Soils beneath landscaped areas were capped with a geotextile separation fabric and minimum of 1 foot thick clean imported topsoil. All irrigation lines were installed above the geotextile fabric.
- Section 4.2 – Stormwater features onsite were tested to confirm absence of contaminated soils. However, most features were not able to achieve a clean test after an additional 6' of excavation and testing. Jeff Newschwander, the Department of Ecology representative, was engaged and made a site visit to observe contaminated soils in place, after which he approved the use of a leaching test to determine the soils were stable enough to remain in place below the stormwater features without harmful impact to the groundwater.

The following attachments are being provided to communicate compliance with the SMP and final as-built conditions onsite:

- 2023.06.02 – *Project Contaminated Soils* – Photo documentation of the original project scope and placement of the geotextile fabric, clean topsoil, and clean trenching backfill material.
- 2023.06.02 – *Remaining Parcel Contaminated Soils* – Photo documentation of the added project scope to mitigate the north and west side of the property outside the boundary fence including placement of the geotextile fabric and clean topsoil.



September 5, 2023

Page 2

- 2023.06.08 – *Contaminated Soils Locations* – Site Plan C1.3 showing areas where contaminated soils were capped by hardscapes, fabric and topsoil, or unmitigated for future project.

If additional information is required, please do not hesitate to contact me. We appreciate the opportunity to complete this project for the community of Chelan and look forward to future projects with your team.

Sincerely,

BOUTEN CONSTRUCTION COMPANY



---

Mac McGrath, Senior Project Manager

CC: Dick Bratton  
Brandon Potts  
Brant Truman  
David Schettler

MJM:mm

S:\Active Jobs\K-711 (LCCH Replacement Hospital)\08 Correspondences\Owner\2023.09.05 - LCH - Contaminated Soils Mitigation Compliance.docx



**Description**

Geofabric at landscape island.

**Taken Date**

07/27/2022 at 11:00 am

**Uploaded By**

Cody Shepherd

**Upload Date**

08/08/2022 at 08:45 am

**File Name**

[E2A43BBD-698C-4CBE-A499-2AD...](#)



**Description**

Topsoil and fabric near fire hydrant main entry.

**Taken Date**

07/19/2022 at 08:08 am

**Uploaded By**

Mac McGrath

**Upload Date**

07/22/2022 at 11:37 am

**File Name**

[D7F70302-E966-4575-B5A2-4B37...](#)



**Description**

Topsoil and fabric at South landscape berm.

**Taken Date**

07/19/2022 at 08:19 am

**Uploaded By**

Mac McGrath

**Upload Date**

07/22/2022 at 11:37 am

**File Name**

[998760DA-DF74-4747-B99D-3C9...](#)



**Description**

Fabric below top soil at Apple Blossom and parking lot.

**Taken Date**

07/18/2022 at 10:02 am

**Uploaded By**

Cody Shepherd

**Upload Date**

07/18/2022 at 10:02 am

**File Name**

[E70AB240-DEC7-4E4E-B0D1-A44...](#)





**Description**

Fabric below top soil at Apple Blossom and parking lot.

**Taken Date**

07/18/2022 at 10:02 am

**Uploaded By**

Cody Shepherd

**Upload Date**

07/18/2022 at 10:02 am

**File Name**

928D9455-8D10-4910-8DAD-8FE...



**Description**

Progress shot south west side of site.

**Taken Date**

06/22/2022 at 09:19 am

**Uploaded By**

Mac McGrath

**Upload Date**

06/24/2022 at 04:31 am

**File Name**

7C2D3FDD-8055-4A22-AFB2-CCB...



**Description**

Topsoil in progress South landscape berm.

**Taken Date**

06/22/2022 at 09:19 am

**Uploaded By**

Mac McGrath

**Upload Date**

06/24/2022 at 04:31 am

**File Name**

65078CF8-AC54-40F9-9A84-9446...



**Description**

Geofabric and topsoil in progress near loading dock.

**Taken Date**

06/22/2022 at 09:08 am

**Uploaded By**

Mac McGrath

**Upload Date**

06/24/2022 at 04:31 am

**File Name**

D9EA5239-3B11-4982-931F-F94A...





**Description**

Geofabric and topsoil in progress South landscape.

**Taken Date**

06/22/2022 at 09:03 am

**Uploaded By**

Mac McGrath

**Upload Date**

06/24/2022 at 04:31 am

**File Name**

[9D5B8D69-7F20-48E4-BF05-3138...](#)



**Description**

Geofabric and topsoil in progress South landscape.

**Taken Date**

06/22/2022 at 09:03 am

**Uploaded By**

Mac McGrath

**Upload Date**

06/24/2022 at 04:31 am

**File Name**

[A8CDC3A2-8EE4-4C75-901F-947...](#)



**Description**

Smith Excavation spreads topsoil at the west landscape.

**Taken Date**

06/16/2022 at 01:05 pm

**Uploaded By**

Wilson Ladd

**Upload Date**

06/16/2022 at 01:10 pm

**File Name**

[D4CDE77E-9081-446E-990F-A52...](#)



**Description**

Geo fabric and fresh top soils being placed by Smith

**Taken Date**

06/13/2022 at 07:36 am

**Uploaded By**

Joshua Belt

**Upload Date**

06/13/2022 at 07:37 am

**File Name**

[EC7575B4-771E-4D34-A8EB-832...](#)



**Description**

Smith places topsoil in front of building.



**Description**

Smith placing topsoil at front of building.

**Taken Date**

06/08/2022 at 11:39 am

**Uploaded By**

Mac McGrath

**Upload Date**

06/16/2022 at 08:04 am

**File Name**

[5BAFEE86-9A38-410F-9A20-404B...](#)



**Description**

Back fill at electrical trenching with clean fill.

**Taken Date**

06/07/2022 at 12:52 pm

**Uploaded By**

Mac McGrath

**Upload Date**

06/16/2022 at 08:13 am

**File Name**

[ECA14FCE-F5F3-4509-AD1B-787...](#)

**Taken Date**

04/13/2022 at 02:57 pm

**Uploaded By**

Joshua Belt

**Upload Date**

04/13/2022 at 02:58 pm

**File Name**

[C99A26CE-50CA-4D91-8E7E-41A...](#)





Description



Description

**Taken Date**

06/01/2023 at 03:18 pm

**Uploaded By**

Mac McGrath

**Upload Date**

06/02/2023 at 01:16 pm

**File Name**

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Description

**Taken Date**

06/01/2023 at 03:18 pm

**Uploaded By**

Mac McGrath

**Upload Date**

06/02/2023 at 01:16 pm

**File Name**

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Description

**Taken Date**

06/01/2023 at 03:16 pm

**Uploaded By**

Mac McGrath

**Upload Date**

06/02/2023 at 01:16 pm

**File Name**

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Description

**Taken Date**

06/01/2023 at 03:09 pm

**Uploaded By**

Mac McGrath

**Upload Date**

06/02/2023 at 01:16 pm

**File Name**

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Description





Description



Description

**Taken Date**  
06/01/2023 at 03:06 pm

**Uploaded By**  
Mac McGrath

**Upload Date**  
06/02/2023 at 01:16 pm

**File Name**  
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Description

**Taken Date**  
06/01/2023 at 03:01 pm

**Uploaded By**  
Mac McGrath

**Upload Date**  
06/02/2023 at 01:16 pm

**File Name**  
[BA1E8F39-43A3-4EF1-AF30-D638...](#)



Description

Bringing the felt to the end of the run on the north side of the building

**Taken Date**  
05/23/2023 at 08:58 am

**Uploaded By**  
Mitch Duim

**Upload Date**  
05/23/2023 at 04:33 pm

**File Name**  
[A93348FE-7A4E-45C4-BCA2-31C...](#)

**Taken Date**  
05/22/2023 at 02:32 pm

**Uploaded By**  
Mitch Duim

**Upload Date**  
05/22/2023 at 04:50 pm

**File Name**  
[ADD8D23E-1138-458C-AEF2-2BC...](#)





Description



Description

Placing felt and leveling soil

Taken Date

05/22/2023 at 02:29 pm

Uploaded By

Mitch Duim

Upload Date

05/22/2023 at 04:50 pm

File Name

[D29798E5-3E72-4EA9-A01F-28BE...](#)

Taken Date

05/22/2023 at 11:17 am

Uploaded By

Mitch Duim

Upload Date

05/22/2023 at 04:49 pm

File Name

[B52AD17F-D952-4862-B86B-D3F...](#)



[illegible]