

Dave Schettler, PE
Schettler Civil Engineering Services LLC
(for Construction Special Inspections)
57 Wedge View Ln
Leavenworth, WA 98826
Phone: (509) 669-5469

December 20, 2023

Attention: Mary Monahan
Department of Ecology
Toxics Cleanup Program-Central Regional Office
1250 West Alder Street
Union Gap, WA 98903

RE: **VCP Project No: CE0509, Lake Chelan Community Hospital, Facility/Site ID: 66314**
Response Document to Ecology - Mary Monahan's letter dated Dec. 13, 2023
on requested list of more information to be provided for review of VCP Opinion
for a No Further Action Determination

Hello,

This letter is following up on our team meeting on Nov. 15, 2023 in response to your requested list as per your letter dated December 13, 2023 of additional items needed to complete the VCP opinion for the Lake Chelan Hospital Site. Below is my responses to the list of information requested as identified from that letter:

1. A figure that clearly details where areas of either or both parcels have been remediated. The figure should include the following elements-stormwater features and locations, clear delineation of where capping was completed, identification of type of hard cap or use of soft capping for landscaping, parcel boundaries and approximate volumes and concentrations of contamination left beneath any capping.

*Response: **Figure A - C1.3 Storm Water Plan** is attached and has been modified to show both parcel property line boundaries and identifies the south parcel, 110 S. Apple Blossum Road, parcel no 27231867013, as having been remediated with all surfaces of the parcel either covered with soft capping of 12-inches of clean soil with underlying geotextile material or hardscaped with pavement for roadways and parking, concrete sidewalks, or newly constructed building for the hospital. **Figure C1.3** clearly details where capping has been completed and identifies the types of hard cap as either building structure, asphalt pavement, concrete sidewalks, and soft capping of geotextile with 12-inches of imported clean soil capping. **Figure C1.3** also calls out the approximate volumes and concentrations of contamination left beneath the capping for the total area of the remediated parcel (parcel no. 27231867013).*

2. If soils have been imported to complete any soft capping, sampling should have been conducted on the imported soils to assure that concentrations of contamination do not exceed MTCA cleanup levels.

Please provide any documentation you may have regarding these items. In lieu of sampling data, you may provide final sampling data for all soft capped areas that show concentrations of contamination that are below 20 mg/Kg for arsenic and 250 mg/Kg for lead.

Response: All soil that was imported to complete soft capping for this project for the whole hospital site parcel at 110 S. Apple Blossum Road (parcel no 27231867013) was documented as being supplied from Chelan Sand & Gravel's site at 879 Howard Flats Road, Chelan, WA. Attached is the initial sampling data dated 1-7-2020 for the soil material imported from Chelan Sand & Gravel from their 879 Howard Flats Road site confirming the imported soil used for soft capped areas has concentrations of contamination below 20 mg/Kg for arsenic and 250 mg/Kg for lead.

*Additional soil sampling of the 12-inch thick soil capping performed on the remaining area that was capped this last summer for the area highlighted in green on the attached **Figure B – C1.3 Site Plan**. **Figure B** also shows the locations of the six (6) soil samples taken to confirm the imported soil is not contaminated with lead and arsenic. This final sampling data for that soft capped area shows concentrations of contamination are below 20 mg/Kg for arsenic and 250 mg/Kg for lead.*

3. Please clarify which parcels you are asking me to write an opinion for – either one, or both.

Response: We are requesting an opinion for No Further Action (NFA) for only Parcel No. 27231867013 (parcel address: 110 S. Apple Blossum Road).

4. All laboratory data sheets from the laboratory, including any quality assurance and chain of custody documentation.

Any data that has not yet been entered into EIM must also be added to EIM. Since our EIM personnel are backed up, if you can provide a confirmatory email that you have submitted additional EIM data, that will be acceptable.

*Response: Attached is the lab data sheets for the recent six (6) soil test samples taken from the remainder of the site area highlighted in green that was required to be capped as shown in attached **Figure C – Site Plan**. The laboratory data sheets also include the Chain of Custody and quality assurance documentation. The test data for these six (6) samples has been entered into Ecology's EIM database (see attached confirmation email from ECY – Nicole Masurat on 12-19-2023).*

5. A Terrestrial Ecological Evaluation (TEE) must be conducted and approved by Ecology. Please see this link for guidance: Terrestrial ecological evaluation - Washington State Department of Ecology

Response: A simplified Terrestrial Ecological Evaluation (TEE) was submitted previously to ECY- Mary Monahan by email on August 11, 2022. This TEE form has been updated and is attached for your review.

Please let us know if you have any questions or additional items that need to be included for Ecology to issue the VCP opinion on this project.

Sincerely,

Dave Schettler, PE
Schettler Civil Engineering Services LLC
(for Construction Special Inspections)
phone: (509) 669-5469
email: davidjschettler@msn.com



CC: Brant Truman MHA – Lake Chelan Community Hospital
Dick Bratton - Project Management LLC
Mac McGrath – Bouten Construction Company
Derek Nyland – Construction Special Inspections

Attachments:

- *Initial Soils Sampling Lab Data for Imported Soil from Chelan Sand & Gravel's Howard Flats Rd Site.*
- *Additional Soil Sampling Lab Data (by Soiltest Labs) for West Capped Area (highlighted in green in Figure C).*
- *Updated simplified Terrestrial Ecological Evaluation (TEE) form dated Nov. 28, 2023.*

PROJECT
LAKE CHELAN COMMUNITY HOSPITAL

110 SOUTH APPLE
BLOSSOM DRIVE
CHELAN, WA 98816

OWNER
LAKE CHELAN HEALTH

CONSULTANT
EDCI ENGINEERS
10100 15TH AVENUE NW
SUITE 200, EDmonds, WA 98541
PHONE: 206.861.1111
FAX: 206.861.1112
WWW.EDCIENGINEERS.COM

ISSUED	DATE	DESCRIPTION
04/30/2021	05/27/2021	CONFORMANCE SET
06/01/2021	06/01/2021	CITY RESPONSES
06/22/2021	06/22/2021	TRANSFORMER RELOCATION

AS-BUILT
BOUTEN CONSTRUCTION
DATE: 10/13/2022
BY: MAC MCGRATH

PROJECT NO. LAKE0116.079
DRAWN BY KLE
ISSUE DATE 06/22/2021
SEAL

SHEET TITLE / NUMBER
STORM WATER PLAN

FIGURE A
C1.6

REFERENCE NOTES:

1. PROVIDE NEW TYPE 1 DRYWELL WITH GRADED LD PER WSDOT STANDARD PLAN 8-2020-02. RM SHALL BE INSTALLED ABOVE FINISHED GRADE PER ELEVATIONS SHOWN HEREON. SEE DETAIL 14/C5.1.
2. PROVIDE NEW 8" SDR35 PVC STORM DRAIN PIPE, SLOPE AND LENGTH PER PLAN.
3. PROVIDE NEW 8" DRAINAGE TRENCH DRAIN WITH TRAFFIC RATED GRATE AND VARIABLE HEIGHT SLOT RISER OR APPROVED EQUAL. TRENCH DRAIN SHALL NOT CONTAIN ANY FERROUS METALS. INSTALL PER MANUFACTURER'S RECOMMENDATION AND SPECIFICATIONS.
4. PROVIDE NEW CLEANDIT TO GRADE. SEE DETAIL 12/C5.1.
5. PROVIDE NEW BIO-INTEGRATION SWALE. SEE DETAIL 15/C5.1.
6. CONNECT TO BUILDING ROOF DRAIN STUB OUT LOCATION. COORDINATE WITH PLAN PLANS.
7. PROVIDE NEW TYPE 1 CATCH BASIN PER WSDOT STANDARD PLAN 8-520-02. SEE DETAIL 8/C5.2.
8. PROVIDE NEW STORM WATER DISPOSAL LIFT STATION PER DETAIL 9/C5.2. CONTROL PANEL SHALL BE LOCATED IN MECHANICAL ROOM. CONTRACTOR SHALL COORDINATE WITH ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
9. PROVIDE NEW 4" HOPE FORCE MAIN. FORCE MAIN SHALL BE ROUTED TO SWALE.
10. PROVIDE NEW 22"x22"x1.50" (LxWxD) GRAVEL INFILTRATION GALLERY. BOTTOM ELEVATION= 1275.30. SEE DETAIL 11/C5.0.
11. PROVIDE NEW 23"x23"x1.50" (LxWxD) GRAVEL INFILTRATION GALLERY. BOTTOM ELEVATION= 1275.87. SEE DETAIL 11/C5.0.
12. PROVIDE NEW 49"x14"x1.50" (LxWxD) GRAVEL INFILTRATION GALLERY. BOTTOM ELEVATION= 1275.82. SEE DETAIL 11/C5.0.
13. PROVIDE NEW 15"x15"x1.50" (LxWxD) GRAVEL INFILTRATION GALLERY. BOTTOM ELEVATION= 1275.68. SEE DETAIL 11/C5.0.
14. PROVIDE NEW 15"x15"x1.50" (LxWxD) GRAVEL INFILTRATION GALLERY. BOTTOM ELEVATION= 1275.94. SEE DETAIL 11/C5.0.
15. PROVIDE NEW 57"x7"x1.50" (LxWxD) GRAVEL INFILTRATION GALLERY. BOTTOM ELEVATION= 1275.93. SEE DETAIL 11/C5.0.
16. PROVIDE NEW 4" PERFORATED PVC FOUNDATION DRAIN. CONTRACTOR SHALL REFERENCE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION. PROVIDE POSITIVE DRAINING SLOPE TOWARDS DRAINAGE FACILITY.
17. PROVIDE NEW 8" SDR35 PVC STORM DRAIN PIPE. PROVIDE POSITIVE DRAINING SLOPE FROM FOUNDATIONS TO INFILTRATION GALLERY OR DRAINAGE STRUCTURE. LENGTH PER PLAN.
18. PROVIDE NEW 8" DUCTILE IRON STORM DRAIN PIPE, SLOPE AND LENGTH PER PLAN.
19. PROVIDE SWALE PER DETAIL 16/C5.1. SOILS IN DITCH SHALL BE CLEAN AND UNCONTAMINATED. SEE ENGINEER NOTE 4 FOR FURTHER INFORMATION.
20. PROVIDE 1" WIDE CURB INLET.
21. AREA WITHIN THE IRRIGATION EASEMENT SHALL REMAIN UNDISTURBED. SLOPES FROM DITCH SHALL BE 3:1 SLOPE, MAXIMUM.

ENGINEER'S NOTES:

1. ALL PROPOSED DRAINAGE AND UTILITY STRUCTURES SHALL BE INSTALLED SO THAT RM ELEVATIONS CAN BE ADJUSTED ±0.5 FEET TO MATCH FINISHED GRADE.
2. FINISHED SURFACE ELEVATIONS (HARDSCAPE AND LANDSCAPING) SHALL BE SLOPED AWAY FROM BUILDING FOR A MINIMUM OF 5 FEET.
3. CONTRACTOR SHALL RAISE ALL EXISTING UTILITY SURFACE FEATURES TO PROPOSED FINISHED SURFACE ELEVATIONS (VALVE COVERS, MANHOLES, ETC.).
4. THE PROPOSED PROJECT SITE CONTAINS CONTAMINATION. CONTRACTOR SHALL ADHERE TO RECOMMENDATIONS FOUND IN THE THREE SEPARATE GEOTECHNICAL ENGINEERING SERVICES REPORT, DATED NOVEMBER 25, 2019, FOR RECOMMENDATIONS ON SOIL REMEDIATION WITHIN STORM WATER FACILITY FOOTPRINT, AS WELL AS HOW TO CONNECT PROPOSED BOTTOM OF STORM WATER FACILITY TO THE LOWER SOIL LINE.
5. CONTRACTOR SHALL REFERENCE SECTION 5.1 AND SECTION 5.1.2 OF THE SUPPLEMENTAL GEOTECHNICAL ENGINEERING SERVICES REPORT, DATED NOVEMBER 25, 2019, FOR RECOMMENDATIONS ON SOIL REMEDIATION WITHIN STORM WATER FACILITY FOOTPRINT, AS WELL AS HOW TO CONNECT PROPOSED BOTTOM OF STORM WATER FACILITY TO THE LOWER SOIL LINE.
6. NO CONTAMINATED SOILS SHALL BE USED WITHIN ANY UTILITY TRENCHES. A QUALIFIED PROFESSIONAL SHALL BE ON-SITE FOR MONITORING, TESTING, AND CONSULTATION REGARDING SOIL CONTAMINATION. WEEKLY OBSERVATION REPORTS SHALL BE SUBMITTED TO THE CITY.

BIO-INTEGRATION SWALE "A"
TOTAL IMPERVIOUS AREA = 6,490 SF TREATMENT VOLUME REQUIRED = 282 CF BOTTOM AREA = 250 SF BOTTOM ELEVATION = 1276.70 RM ELEVATION = 1277.25 BERM ELEVATION = 1277.53 SIDE SLOPE = 3:1 (MAXIMUM)
BIO-INTEGRATION SWALE "B"
TOTAL IMPERVIOUS AREA = 52,272 SF TREATMENT VOLUME REQUIRED = 2,047 CF TREATMENT VOLUME PROVIDED = 1,394 CF BOTTOM AREA = 2,600 SF BOTTOM ELEVATION = 1274.81 RM ELEVATION = 1275.31 BERM ELEVATION = 1275.81 SIDE SLOPE = 3:1 (MAXIMUM)
BIO-INTEGRATION SWALE "C"
TOTAL IMPERVIOUS AREA = 50,704 SF TREATMENT VOLUME REQUIRED = 1,960 CF TREATMENT VOLUME PROVIDED = 392 CF BOTTOM AREA = 729 SF BOTTOM ELEVATION = 1276.87 RM ELEVATION = 1277.37 BERM ELEVATION = 1277.87 SIDE SLOPE = 3:1 (MAXIMUM)
BIO-INTEGRATION SWALE "D"
TOTAL IMPERVIOUS AREA = 3,398 SF TREATMENT VOLUME REQUIRED = 131 CF TREATMENT VOLUME PROVIDED = 44 CF BOTTOM AREA = 36 SF BOTTOM ELEVATION = 1279.35 RM ELEVATION = 1279.85 BERM ELEVATION = 1280.35 SIDE SLOPE = 3:1 (MAXIMUM)

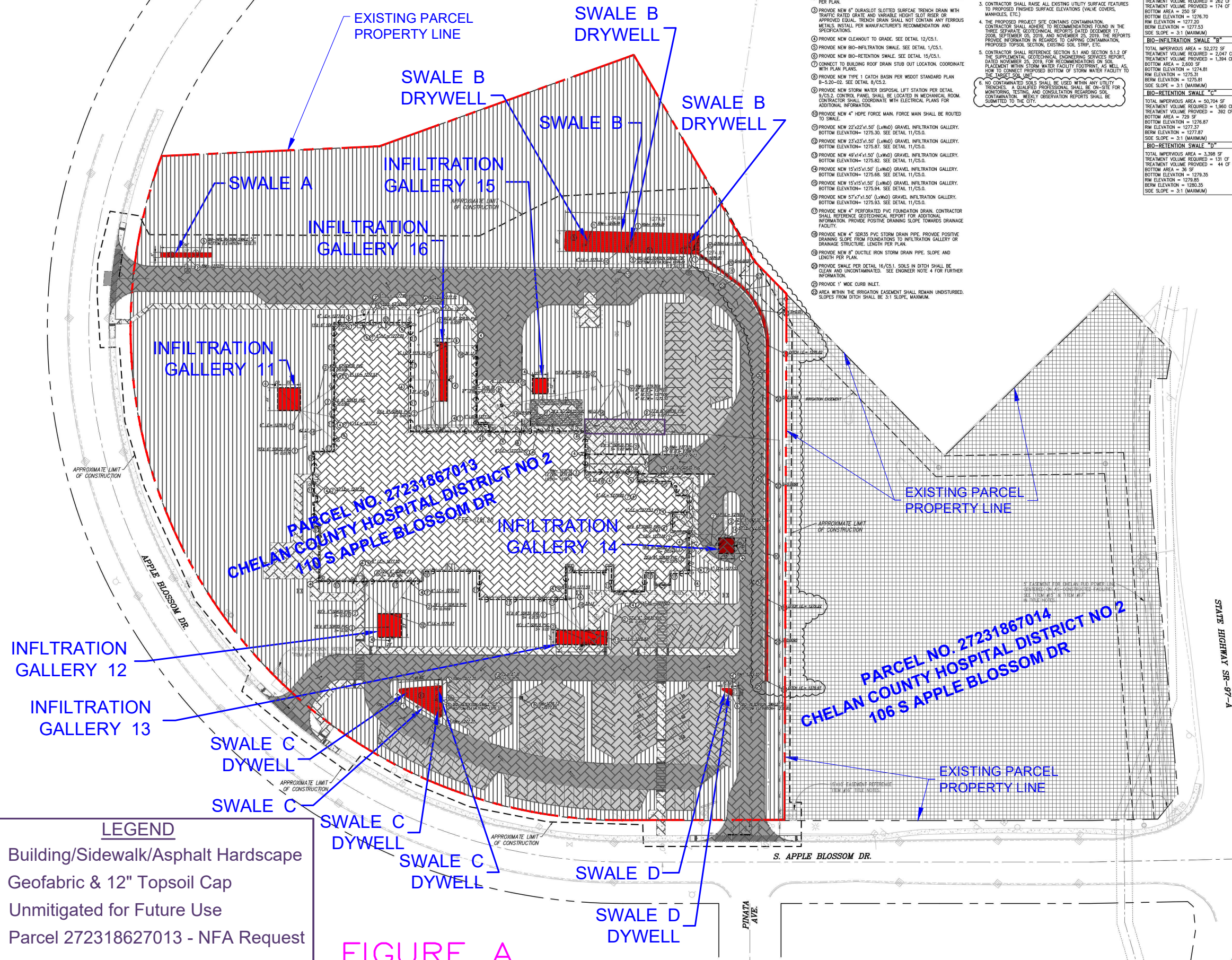


FIGURE A

Approximate Volume of Contaminated Soils with levels above MTCA beneath capping materials on Parcel No. 27231867013 = 602,257 cubic yards. Approximate levels of lead and arsenic left beneath the capping materials is estimated to be as follows: Arsenic ≈ 77 mg/kg, Lead ≈ 292 mg/kg.

MARK	DATE	DESCRIPTION
	04/30/2021	CONFIRMANCE SET
	05/27/2021	CITY RESPONSES
	06/08/2021	CITY RESPONSES
	06/22/2021	TRANSFORMER RELOCATION
	08/06/2021	RFI 006 RI REVISION
	10/04/2021	RFI-070 & 116
	11/30/2021	RFI-210

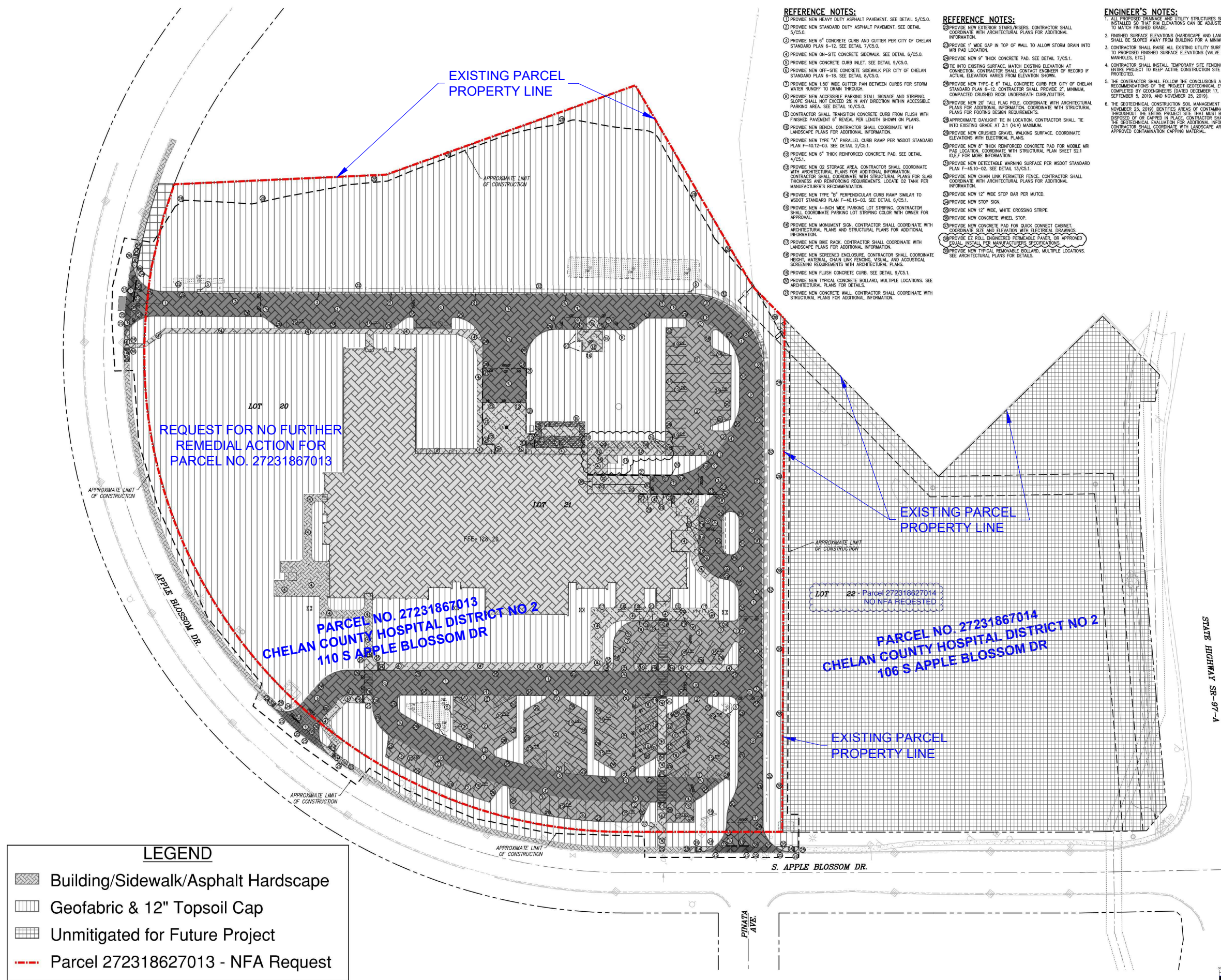


FIGURE B — OVERALL SITE PLAN

FOR PERMIT

THESE DRAWINGS ARE SUFFICIENTLY COMPLETE FOR SUBMISSION TO THE JURISDICTION HAVING AUTHORITY FOR PERMIT. THE CONTRACTOR SHALL NOT USE THESE DRAWINGS FOR CONSTRUCTION UNTIL THE CONTRACTOR RECEIVES WRITTEN APPROVAL FOR USE IN CONSTRUCTION BY THE JURISDICTION HAVING AUTHORITY AND DCI ENGINEERS.

CONTRACTOR NOTE

ALL EXISTING UTILITIES SHOWN ON PLANS ARE TO BE VERIFIED
HORIZONTALLY AND VERTICALLY PRIOR TO ANY CONSTRUCTION.
ALL EXISTING FEATURES INCLUDING BURIED UTILITIES ARE SHOWN
AS INDICATED ON RECORD MAPS AND SURVEYS FURNISHED BY
OTHERS. WE ASSUME NO LIABILITY FOR THE ACCURACY OF THOSE
RECORDS AND SURVEYS. CONTACT THE UTILITY OWNER/AGENCY
FOR THE FINAL LOCATION OF EXISTING UTILITIES IN AREAS
CRITICAL TO CONSTRUCTION.

UNDERGROUND SERVICE ALERT

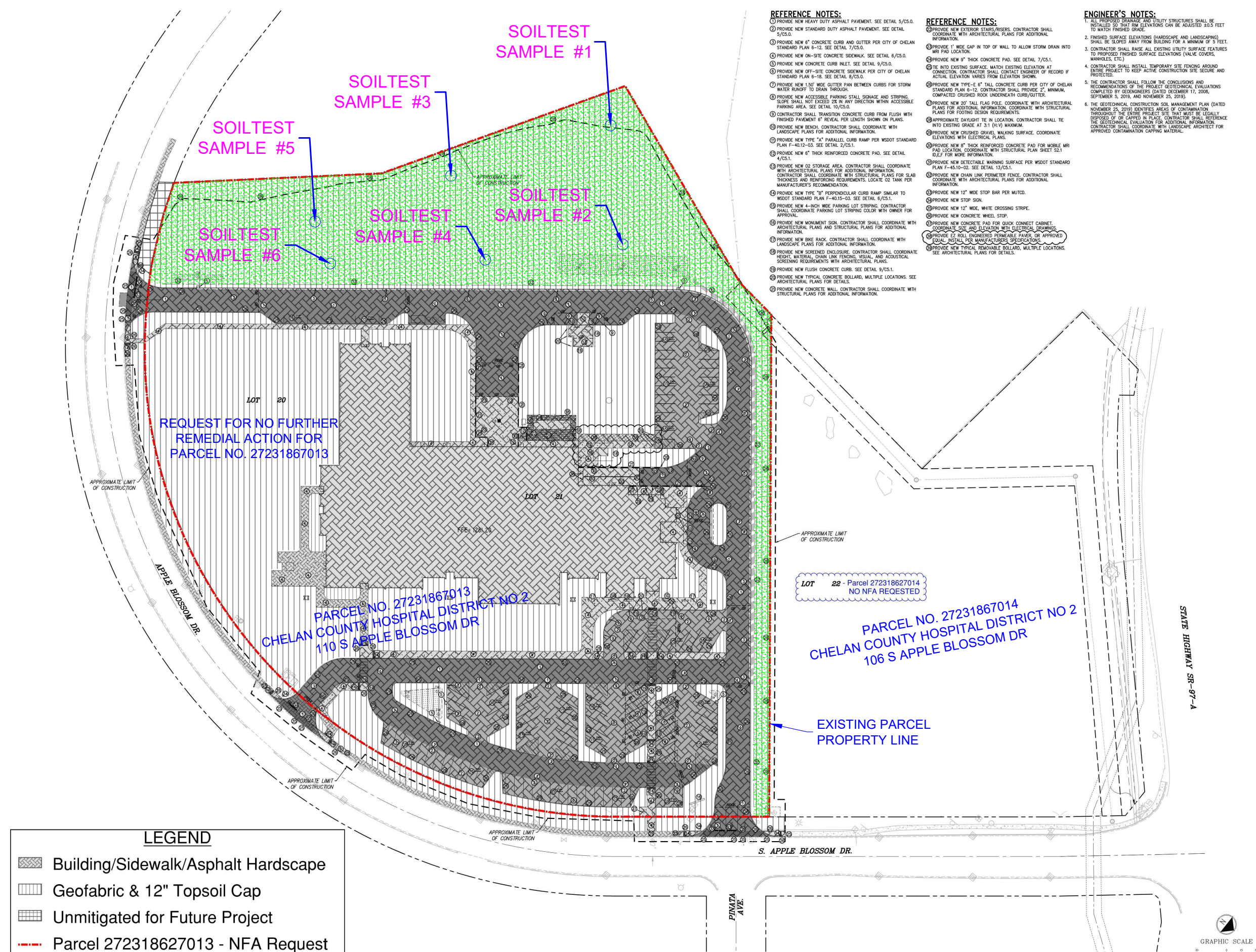


ONE-CALL NUMBER
811



CALL TWO BUSINESS DAYS

BEFORE YOU DIE



- REFERENCE NOTES:**
- 1. PROVIDE NEW HEAVY DUTY ASPHALT PAVEMENT. SEE DETAIL 5/C5.0.
 - 2. PROVIDE NEW STANDARD DUTY ASPHALT PAVEMENT. SEE DETAIL 5/C5.0.
 - 3. PROVIDE NEW 6" CONCRETE CURB AND GUTTER PER CITY OF CHELAN STANDARD PLAN 6-12. SEE DETAIL 7/C5.0.
 - 4. PROVIDE NEW ON-SITE CONCRETE SIDEWALK. SEE DETAIL 6/C5.0.
 - 5. PROVIDE NEW CONCRETE CURB INLET. SEE DETAIL 9/C5.0.
 - 6. PROVIDE NEW OFF-SITE CONCRETE SIDEWALK PER CITY OF CHELAN STANDARD PLAN 6-18. SEE DETAIL 8/C5.0.
 - 7. PROVIDE NEW 1.50' WIDE GUTTER PAN BETWEEN CURBS FOR STORM WATER RUNOFF TO DRAIN THROUGH.
 - 8. PROVIDE NEW ACCESSIBLE PARKING STALL SIGNAGE AND STRIPING. SLOPE SHALL NOT EXCEED 2% IN ANY DIRECTION WITHIN ACCESSIBLE PARKING AREA. SEE DETAIL 10/C5.0.
 - 9. CONTRACTOR SHALL TRANSITION CONCRETE CURB FROM FLUSH WITH FINISHED PAVEMENT 6" REVEAL PER LENGTH SHOWN ON PLANS.
 - 10. PROVIDE NEW BENCH. CONTRACTOR SHALL COORDINATE WITH LANDSCAPE PLANS FOR ADDITIONAL INFORMATION.
 - 11. PROVIDE NEW TYPE "A" PARALLEL CURB RAMP PER WSDOT STANDARD PLAN F-40.12-03. SEE DETAIL 2/C5.1.
 - 12. PROVIDE NEW 6" THICK REINFORCED CONCRETE PAD. SEE DETAIL 4/C5.1.
 - 13. PROVIDE NEW 02 STORAGE AREA. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL COORDINATE WITH STRUCTURAL PLANS FOR SLAB THICKNESS AND REINFORCING REQUIREMENTS. LOCATE 02 TANK PER MANUFACTURER'S RECOMMENDATION.
 - 14. PROVIDE NEW TYPE "B" PERPENDICULAR CURB RAMP SIMILAR TO WSDOT STANDARD PLAN F-40.13-03. SEE DETAIL 9/C5.1.
 - 15. PROVIDE NEW 4-INCH WIDE PARKING LOT STRIPING. CONTRACTOR SHALL COORDINATE PARKING LOT STRIPING COLOR WITH OWNER FOR APPROVAL.
 - 16. PROVIDE NEW MONUMENT SIGN. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL PLANS AND STRUCTURAL PLANS FOR ADDITIONAL INFORMATION.
 - 17. PROVIDE NEW BIKE RACK. CONTRACTOR SHALL COORDINATE WITH LANDSCAPE PLANS FOR ADDITIONAL INFORMATION.
 - 18. PROVIDE NEW SCREENED ENCLOSURE. CONTRACTOR SHALL COORDINATE HEIGHT, MATERIAL, CHAIN LINK FENCING, VISUAL, AND ACOUSTICAL SCREENING REQUIREMENTS WITH ARCHITECTURAL PLANS.
 - 19. PROVIDE NEW FLUSH CONCRETE CURBS. SEE DETAIL 5/C5.1.
 - 20. PROVIDE NEW TYPICAL CONCRETE BOLLARD, MULTIPLE LOCATIONS. SEE ARCHITECTURAL PLANS FOR DETAILS.
 - 21. PROVIDE NEW CONCRETE WALL. CONTRACTOR SHALL COORDINATE WITH STRUCTURAL PLANS FOR ADDITIONAL INFORMATION.

- REFERENCE NOTES:**
- 1. PROVIDE NEW EXTERIOR STAIRS/RISERS. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
 - 2. PROVIDE 1" WIDE GAP IN TOP OF WALL TO ALLOW STORM DRAIN INTO MBI PAD LOCATION.
 - 3. PROVIDE NEW 9" THICK CONCRETE PAD. SEE DETAIL 7/C5.1.
 - 4. TIE INTO EXISTING SURFACE. MATCH EXISTING ELEVATION AT CONNECTION. CONTRACTOR SHALL CONTACT ENGINEER OF RECORD IF ACTUAL ELEVATION VARIES FROM ELEVATION SHOWN.
 - 5. PROVIDE NEW TYPE-E 6" TALL CONCRETE CURB PER CITY OF CHELAN STANDARD PLAN 6-12. CONTRACTOR SHALL PROVIDE 2" MINIMUM COMPACTED CRUSHED ROCK UNDERNEATH CURB/GUTTER.
 - 6. PROVIDE NEW 20' TALL FLAG POLE. COORDINATE WITH ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. COORDINATE WITH STRUCTURAL PLANS FOR FOOTING DESIGN REQUIREMENTS.
 - 7. APPROXIMATE DAYLIGHT TIE IN LOCATION. CONTRACTOR SHALL TIE INTO EXISTING GRADE AT 3:1 (H:V) MAXIMUM.
 - 8. PROVIDE NEW CRUSHED GRAVEL WALKING SURFACE. COORDINATE ELEVATIONS WITH ELECTRICAL PLANS.
 - 9. PROVIDE NEW 8" THICK REINFORCED CONCRETE PAD FOR MOBILE MBI PAD LOCATION. COORDINATE WITH STRUCTURAL PLAN SHEET S2.1 BUEP FOR MORE INFORMATION.
 - 10. PROVIDE NEW DETECTABLE WARNING SURFACE PER WSDOT STANDARD PLAN F-45.10-02. SEE DETAIL 13/C5.1.
 - 11. PROVIDE NEW CHAIN LINK PERIMETER FENCE. CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
 - 12. PROVIDE NEW 12" WIDE STOP BAR PER MUTCD.
 - 13. PROVIDE NEW STOP SIGN.
 - 14. PROVIDE NEW 12" WIDE WHITE CROSSING STRIPE.
 - 15. PROVIDE NEW CONCRETE WHEEL STOP.
 - 16. PROVIDE NEW CONCRETE PAD FOR QUICK CONNECT CABINET. COORDINATE SIZE AND ELEVATION WITH ELECTRICAL DRAWINGS.
 - 17. PROVIDE EZ ROLL ENGINEERED PERMEABLE PAVEMENT OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
 - 18. PROVIDE NEW TYPICAL REMOVABLE BOLLARD, MULTIPLE LOCATIONS. SEE ARCHITECTURAL PLANS FOR DETAILS.

- ENGINEER'S NOTES:**
- 1. ALL PROPOSED DRAINAGE AND UTILITY STRUCTURES SHALL BE INSTALLED SO THAT RIM ELEVATIONS CAN BE ADJUSTED 20.5 FEET TO MATCH FINISHED GRADE.
 - 2. FINISHED SURFACE ELEVATIONS (HARDSCAPE AND LANDSCAPING) SHALL BE SLOPED AWAY FROM BUILDING FOR A MINIMUM OF 5 FEET.
 - 3. CONTRACTOR SHALL RAISE ALL EXISTING UTILITY SURFACE FEATURES TO PROPOSED FINISHED SURFACE ELEVATIONS (VALVE COVERS, MANHOLES, ETC.).
 - 4. CONTRACTOR SHALL INSTALL TEMPORARY SITE FENCING AROUND ENTIRE PROJECT TO KEEP ACTIVE CONSTRUCTION SITE SECURE AND PROTECTED.
 - 5. THE CONTRACTOR SHALL FOLLOW THE CONCLUSIONS AND RECOMMENDATIONS OF THE PROJECT GEOTECHNICAL EVALUATIONS COMPLETED BY GEOTECHNICALS (DATED DECEMBER 17, 2008, SEPTEMBER 5, 2019, AND NOVEMBER 25, 2019).
 - 6. THE GEOTECHNICAL CONSTRUCTION SOIL MANAGEMENT PLAN (DATED NOVEMBER 25, 2019) IDENTIFIES AREAS OF CONTAMINATION THROUGHOUT THE ENTIRE PROJECT SITE THAT MUST BE LEGALLY DEPOSED OF OR CAPPED IN PLACE. CONTRACTOR SHALL REFERENCE THE GEOTECHNICAL EVALUATION FOR ADDITIONAL INFORMATION. CONTRACTOR SHALL COORDINATE WITH LANDSCAPE ARCHITECT FOR APPROVED CONTAMINATION CAPPING MATERIAL.

**WOLLINS
GERMAN**

710 SECOND AVENUE SUITE 1400
SEATTLE, WASHINGTON 98104-1710
T. 206.245.2100 F. 206.245.2101

PROJECT
**LAKE
CHELAN
COMMUNITY
HOSPITAL**

110 SOUTH APPLE
BLOSSOM DRIVE
CHELAN, WA 98816

OWNER
**LAKE CHELAN
HEALTH**

CONSULTANT
EDCI
1317 1/2 CHUCKLEBERRY
SPokane, Washington 99201
PH: 509.325.4444 FAX: 509.325.4445
WWW.EDCI.COM
REGISTERED PROFESSIONAL ENGINEER
CIVIL / STRUCTURAL
WASHINGTON STATE LICENSE NO. 14000

ISSUED	DATE	DESCRIPTION
04/02/2021	04/02/2021	CONFORMANCE SET
06/02/2021	06/02/2021	CITY RESPONSES
06/02/2021	06/02/2021	CITY RESPONSES
06/02/2021	06/02/2021	TRANSFORMER RELOCATION
08/02/2021	08/02/2021	RFI 006 REVISION
10/04/2021	10/04/2021	RFI 005 & 116
11/02/2021	11/02/2021	RFI 010

PROJECT NO. LAKE01.16.079

DRAWN BY KLE

ISSUE DATE 06/22/2021

SEAL



SHEET TITLE / NUMBER

SITE PLAN

FIGURE C

C1.3

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FIGURE C – 4TH SET SAMPLE TEST LOCATIONS
SOIL SAMPLES TESTED FOR ARSENIC & LEAD CONCENTRATIONS 8/11/2023
AT DEPTHS ~ 0.5 FT BELOW FINAL GRADING ELEVATIONS

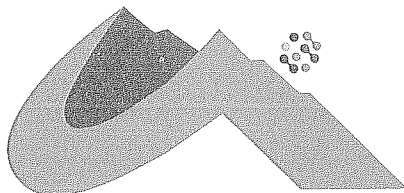
FOR PERMIT

THESE DRAWINGS ARE SUBMITTED FOR SUBMISSION TO THE JURISDICTION HAVING AUTHORITY FOR PERMIT. THE CONTRACTOR SHALL NOT USE THESE DRAWINGS FOR CONSTRUCTION UNTIL THE CONTRACTOR RECEIVES WRITTEN APPROVAL FOR USE IN CONSTRUCTION BY THE JURISDICTION HAVING AUTHORITY AND DOI ENGINEERS.

CONTRACTOR NOTE

ALL EXISTING UTILITIES SHOWN ON PLANS ARE TO BE VERIFIED HORIZONTALLY AND VERTICALLY PRIOR TO ANY CONSTRUCTION. ALL EXISTING FEATURES INCLUDING BURIED UTILITIES ARE SHOWN AS INDICATED ON RECORD MAPS AND SURVEYS FURNISHED BY OTHERS. WE ASSUME NO LIABILITY FOR THE ACCURACY OF THOSE RECORDS AND SURVEYS. CONTACT THE UTILITY OWNER/AGENCY FOR THE FINAL LOCATION OF EXISTING UTILITIES IN AREAS CRITICAL TO CONSTRUCTION.

UNDERGROUND SERVICE ALERT
ONE-CALL NUMBER
811
CALL TWO BUSINESS DAYS BEFORE YOU DIG



CASCADE ANALYTICAL
A EUROFINS COMPANY
1-800-545-4206

(509) 662-1888
Fax: (509) 662-8183
3019 G. S. Center Road
Wenatchee, WA 98801

(509) 452-7707
Fax: (509) 452-7773
1008 W. Ahtanum Rd.
Union Gap, WA 98903

Batch: 003172
Grower:
Account: 21100
Sampler: Chelan Sand & Gravel, LLC
PO Number:

--- SOIL ANALYSIS RESULTS ---

Chelan Sand & Gravel, LLC
879 Howard Flats Rd.
Chelan, WA 98816

Report Date: 1/13/20
Date Received: 1/ 7/20
Date Sampled: 1/ 7/20

Lab Number: 20-S000445

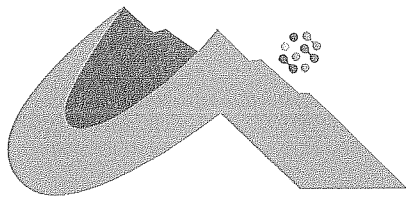
Sample Id: Front of pile

Test Requested	Results	Relative Level	Optimum Range
Arsenic Solid	5.310 mg/Kg		SW846 6010
Lead Solid	< 5 mg/Kg		SW846 6010

Please keep results in your reference files. Test every other year.

Approved By:

[Signature]
Dianne Zedbach
Quality Manager



CASCADE ANALYTICAL
A EUROFINS COMPANY
1-800-545-4206

(509) 662-1888
Fax: (509) 662-8183
3019 G. S. Center Road
Wenatchee, WA 98801

(509) 452-7707
Fax: (509) 452-7773
1008 W. Ahtanum Rd.
Union Gap, WA 98903

Batch: 003172
Grower:
Account: 21100
Sampler: Chelan Sand & Gravel, LLC
PO Number:

--- SOIL ANALYSIS RESULTS ---

Chelan Sand & Gravel, LLC
879 Howard Flats Rd.
Chelan, WA 98816

Report Date: 1/13/20
Date Received: 1/ 7/20
Date Sampled: 1/ 7/20

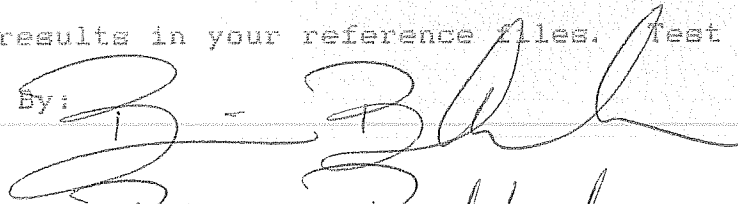
Lab Number: 20-S000446

Sample Id: Back of pile

Test Requested	Results	Relative Level	Optimum Range
Arsenic Solid	< 5 mg/Kg		SW846 6010
Lead Solid	< 5 mg/Kg		SW846 6010

Please keep results in your reference files. Test every other year.

Approved By:


Brianna Zuckbach
Quality Manager



Sample Receipt Form

Date Received: 1/7/20 Time Received: 8:51am Initials: TWO

Client Name: Chelan Sand & Gravel Project Name: Ag Soil

Temperature of cooler upon receipt: 16 °C Thermometer ID: #4

Custody seals: Intact Broken None N/A

Chain of Custody Completed:

Client name, address, and phone number;

Yes No

Date and time of sampling;

Yes No

Test requests clear;

Yes No

Completed in ink;

Yes No

Signed by client;

Yes No

All samples received:

Yes No

All samples intact:

Yes No

Sample ID's match COC form:

Yes No

Appropriate containers used:

Yes No

Sufficient amount of sample for analysis:

Yes No

Correct preservative verified:

N/A Yes No

Air bubbles in VOC, THM, or HAA5 samples:

N/A Yes No

Sample(s) exceed hold time:

Yes No

Type of coolant: Ice Blue Ice None Other Comment: _____

Shipping Method: FedEx UPS USPS Brett & Sons Hand Delivered CAI Sampled

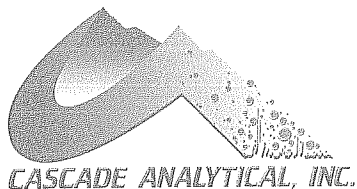
Shipping Container: E-CA Cooler E-CA Cooler Box Client's Cooler None Other _____

Samples accepted for analysis: Yes No

Reason for Rejection: _____

Name of Person Contacted: _____ Date Contacted: _____

Comments: _____



21100

(509) 662-1888
Fax: (509) 662-8183
3019 G.S. Center Rd.
Wenatchee, WA 98801

(509) 452-7707
Fax: (509) 452-7773
1008 W. Ahtanum Rd.
Union Gap, WA 98903

SOIL ANALYSIS ORDER FORM

SAMPLER'S NAME <i>Chelan Sand & Gravel, Inc</i>	Fully complete shaded areas only	
DATE OF SAMPLING M M D D Y Y <i>010720</i>	SEND RESULTS TO: G. GROWER A. BILLING ADDRESS B. BOTH	GEOGRAPHIC ZONE (SEE REVERSE SIDE)

Call for AC

GROWER'S NAME/ADDRESS <i>879 Howard Flats rd Chelan wa 98816 (CSG.dispatch@yahoo.com) 253 350 5542</i>

BILLING NAME/ADDRESS <i>Po box 1027 Chelan wa 98816</i>
PHONE NO. <i>682 2569</i>

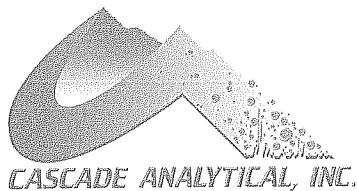
SAMPLE INFORMATION

G CLIENT'S SAMPLE IDENTIFICATION <i>11-508045 Front of pile</i>	H	I CROP/VARIETY (Enter selection from reverse side)	J SOIL DEPTH 1=0-6" 2=6-12" 3=6-18" 4=12-24" 5=24-36" <i>4</i>	K TREE AGE (Years)	L GROP LOAD N=non-producing L=light A=average H=heavy	M PRUNING N=none L=light M=medium H=heavy	N VIGOR 1=0 2=1-6" 3=7-18" 4=19-35" 5=36+	O PREDOMINANT SOIL TYPE 1=sand 2=sandy loam 3=silt loam 4=clay <i>1?</i>	P LAB REQUEST TYPE 1=EWI, 2=EWII 3=EWIII, 4=WWI 5=complete 6=garden 9=your selection <i>9 Pb4AS</i>
---	---	---	---	-----------------------	--	--	---	--	--

TEST REQUEST	pH	E.C.	B	NO ₃ -N	As	P	K	Ca	Mg	Zn	% OM	Uno Req pH 6.5	S ₀₄	Fe	Cu	Mn	Gyp Req	CEC	Exchangeable				Texture
																			K	CA	Mg	Na	
1 E WASH I	✓	✓	✓	✓		✓	✓					✓											
2 E WASH II	✓	✓	✓	✓		✓	✓					✓											
3 E WASH III	✓	✓	✓	✓		✓	✓	✓	✓			✓	✓										
4 W WASH I	✓		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓										
5 COMPLETE	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							
6 GARDEN	✓			✓		✓	✓				✓	✓											
9 YOUR SELECTION					X																		
Sample 1																							
Sample 2																							
Sample 3																							
Sample 4																							
Sample 5																							

1	SAMPLE AREA COMMENT	
1	CURRENT FERTILIZATION	
2	SAMPLE AREA COMMENT	
2	CURRENT FERTILIZATION	
3	SAMPLE AREA COMMENT	
3	CURRENT FERTILIZATION	
4	SAMPLE AREA COMMENT	
4	CURRENT FERTILIZATION	
5	SAMPLE AREA COMMENT	
5	CURRENT FERTILIZATION	

Batch # 003172



(509) 662-1888
Fax: (509) 662-8183
3019 G.S. Center Rd.
Wenatchee, WA 98801

(509) 452-7707
Fax: (509) 452-7773
1008 W. Ahtanum Rd.
Union Gap, WA 98903

SOIL ANALYSIS ORDER FORM

SAMPLER'S NAME *Chelan Sand & Gravel, Inc*

Fully complete shaded areas only

DATE OF SAMPLING
M M D D Y Y
0 1 0 7 2 0

SEND RESULTS TO:
G. GROWER
A: BILLING ADDRESS
B: BOTH

GEOGRAPHIC ZONE
(SEE REVERSE SIDE)

Call for CC

GROWER'S NAME/ADDRESS
*879 Howard Flats rd
Chelan wa 98816
(CSG. Dispatch@yahoo.com)
253 350 5542*

BILLING NAME/ADDRESS
*PO box 1027
Chelan wa 98816*
PHONE NO. *682 2569*

SAMPLE INFORMATION

G	H	I	J	K	L	M	N	O	P
	CLIENT'S SAMPLE IDENTIFICATION	CROP/VARIETY (Enter selection from reverse side)	SOIL DEPTH 1=0-6" 2=6-12" 3=6-18" 4=12-24" 5=24-36"	TREE AGE (Years)	GROP LOAD N=non-producing L=light A=average H=heavy	PRUNING N=none L=light M=medium H=heavy	VIGOR 1=0 2=1-6" 3=7-18" 4=19-35" 5=36+	PREDOMINANT SOIL TYPE 1=sand 2=sandy loam 3=silt loam 4=clay	LAB REQUEST TYPE 1=EWI, 2=EWII 3=EWIII, 4=WWI 5=complete 6=garden 9=your selection
19-5000446	Buck of Pile		1					1?	9 Pile As

TEST REQUEST	pH	E.C.	B	NO ₃ -N	As	P	K	Ca	Mg	Zn	% OM	Lime Req. pH 6.5	S ₀	Fe	Cu	Mn	Gyp. Req.	CEC	Exchangeable				Texture
																			K	CA	Mg	Na	
1 E WASH I	✓	✓	✓	✓								✓											
2 E WASH II	✓	✓	✓	✓		✓	✓					✓											
3 E WASH III	✓	✓	✓	✓		✓	✓	✓	✓			✓	✓										
4 W WASH I	✓		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓										
5 COMPLETE	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							
6 GARDEN	✓			✓		✓	✓				✓	✓											
9 YOUR SELECTION					X																		
Sample 1																							
Sample 2																							
Sample 3																							
Sample 4																							
Sample 5																							

1	SAMPLE AREA COMMENT	
	CURRENT FERTILIZATION	
2	SAMPLE AREA COMMENT	
	CURRENT FERTILIZATION	
3	SAMPLE AREA COMMENT	
	CURRENT FERTILIZATION	
4	SAMPLE AREA COMMENT	
	CURRENT FERTILIZATION	
5	SAMPLE AREA COMMENT	
	CURRENT FERTILIZATION	

Batch 003172



CSI NW
Derek Nyland

DATE REC 7-Aug-23

Amount due \$ 252.00

LAB # S23-15102

Date Reported: 08/11/22

Reveiwed 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					



Client: Please fill out:	Copy of report sent to:	Job #/ Name	Lake Chelan Hospital
Company: CSI NW	Company:	Payment Method: Credit Card	Est. Acct.
Contact: Derek Nyland	Contact:		
Address: 1250 N. WENATCHEE AVE	Address:		
City, ST, Zip.: WENATCHEE, WA 98801	City, ST, Zip.:		
Telephone: (509) 264-0752	Telephone:		
Fax:	Fax:		
e mail: derek@csinw.com	e mail:		

Sample Identification		Date Sampled	Requested Tests		Test Results				Lab Use Only	
			Arsenic	Lead	Other 1	Other 2	Other 3	Other 4	Sample Condition	LAB ID
1	1	8-3-23	X	X						523-15102
2	2	8-3-23	X	X						15103
3	3	8-3-23	X	X						15104
4	4	8-3-23	X	X						15105
5	5	8-3-23	X	X						15106
6	6	8-3-23	X	X						15107
7										
8										
9										
10										
11										
12										
Releasing			Receiving							
Releasing Signature 1			Receiving Signature 1							
Releasing Signature 2			Receiving Signature 2							
Releasing Signature 3			Receiving Signature 3							

Releasing Signature 3 _____
 Submission of samples to Laboratory with a Chain of Custody constitutes a contract for services requested. Provide payment detail with each COC. If no payment information is provided, you will be contacted by the laboratory. We will make every effort to provide an accurate analysis of this sample. For reasonable cause, we will repeat the tests, but because of factors beyond our control, in sampling procedures and inherent sample variability in compost, soils and plants, our liability is limited to the price of the tests.

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
Drinking Water		
Turbidity	SM 2130 B-2011	
Fluoride	SM 4500-F ⁻ C-2011	
Nitrate as N	SM 4500-NO ₃ ⁻ F-2011	
Nitrite as N	SM 4500-NO ₃ ⁻ F-2011	
Non-Potable Water		
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 ⁻ E-2011	
Fluoride	SM 4500-F ⁻ C-2011	
Ammonia	SM 4500-NH ₃ H-2011	
Nitrate as N	SM 4500-NO ₃ ⁻ F-2011	
Nitrite as N	SM 4500-NO ₃ ⁻ 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 ₄ ⁻ 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
Non-Potable Water		
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	
Solid and Chemical Materials		
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 ⁻ 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)	

Soiltest Farm Consultants, Inc. Laboratory

Matrix/Analyte	Method	Notes
Solid and Chemical Materials		
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

From: Masurat, Nicole (ECY) <nmas461@ECY.WA.GOV>
Sent: Tuesday, December 19, 2023 9:14 AM
To: Angelica <support@csinw.com>
Subject: RE: Verification/Submitted Test Results and Locations

Hi Angelica,

The table below shows the location and result submissions for the VCCE0509 study that are awaiting review and loading to EIM. When the files are reviewed a data coordinator will reach out to Derek Nyland with edit requests.

Batch Type	Created By Full Name	Created Date	Batch Filename	Total Records	Program Office	Organization
LOCATION	Derek Nyland	11/27/2023 12:03	SW Cap Locations 11-27-2023 (1).csv	6	TCP-Cleanup	CSI: Construction Special Inspection - Wenatchee
LOCATION	Derek Nyland	11/27/2023 11:39	VCCE0509_Locations_Template_11-27-2023.csv	37	TCP-Cleanup	CSI: Construction Special Inspection - Wenatchee
RESULT	Derek Nyland	11/27/2023 12:04	SW Cap Results 11-27-2023 (1).csv	12	TCP-Cleanup	CSI: Construction Special Inspection - Wenatchee

Please let me know if I can help with anything else.

Thank you,
Nicole

Nicole Masurat
EIM Data Coordinator
Washington State Department of Ecology

From: Angelica <support@csinw.com>
Sent: Tuesday, December 19, 2023 8:50 AM
To: Masurat, Nicole (ECY) <nmas461@ECY.WA.GOV>
Subject: RE: Verification/Submitted Test Results and Locations

Yes, Lake Chelan Hospital with Study ID VCCE0509

From: Masurat, Nicole (ECY) <nmas461@ECY.WA.GOV>
Sent: Monday, December 18, 2023 11:26 AM
To: Angelica <support@csinw.com>
Subject: RE: Verification/Submitted Test Results and Locations

Hi Angelica,

Can you provide a little more information on the submissions so I can find them in our database? Is this data for the Lake Chelan Hospital study with a Study ID of VCCE0509 and a Facility Site ID of 66314?

Nicole Masurat
EIM Data Coordinator
Washington State Department of Ecology

From: Angelica <support@csinw.com>
Sent: Monday, December 18, 2023 10:56 AM
To: Masurat, Nicole (ECY) <nmas461@ECY.WA.GOV>
Subject: Verification/Submitted Test Results and Locations

Hi Nicole, can we please get verification that our latest Data (Test results and locations) for the Lake Chelan Hospital Site were uploaded in the EIM database? Thank you!
-Angelica

Dept of Ecology is requesting the following be provided so as to understand that you have uploaded the last 6 sample data results into the EIM database:

Any data that has not yet been entered into EIM must also be added to EIM. Since our EIM personnel are backed up, if you can provide an confirmatory email that you have submitted additional EIM data, that will be acceptable.

So, please copy me any email that you had last received on confirming the EIM database information for these samples was entered into ECY's database.
Thanks,

Dave Schettler
(509) 669-5469



Voluntary Cleanup Program

Washington State Department of Ecology Toxics Cleanup Program

TERRESTRIAL ECOLOGICAL EVALUATION FORM

Under the Model Toxics Control Act (MTCA), a terrestrial ecological evaluation is necessary if hazardous substances are released into the soils at a Site. In the event of such a release, you must take one of the following three actions as part of your investigation and cleanup of the Site:

1. Document an exclusion from further evaluation using the criteria in WAC 173-340-7491.
2. Conduct a simplified evaluation as set forth in WAC 173-340-7492.
3. Conduct a site-specific evaluation as set forth in WAC 173-340-7493.

When requesting a written opinion under the Voluntary Cleanup Program (VCP), you must complete this form and submit it to the Department of Ecology (Ecology). The form documents the type and results of your evaluation.

Completion of this form is not sufficient to document your evaluation. You still need to document your analysis and the basis for your conclusion in your cleanup plan or report.

If you have questions about how to conduct a terrestrial ecological evaluation, please contact the Ecology site manager assigned to your Site. For additional guidance, please refer to <https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Terrestrial-ecological-evaluation>.

Step 1: IDENTIFY HAZARDOUS WASTE SITE

Please identify below the hazardous waste site for which you are documenting an evaluation.

Facility/Site Name: LCH/LCCHRH (K711) - Contaminated Soils Testing at Stormwater Features

Facility/Site Address: 106 and 110 South Apple Blossom Drive, Chelan, WA 98816

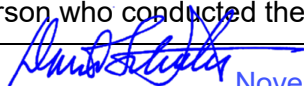
Facility/Site No: 66314

VCP Project No.: CE0509

Step 2: IDENTIFY EVALUATOR

Please identify below the person who conducted the evaluation and their contact information.

Name: David Schettler, P.E.


November 28, 2023

Title: Civil Engineer

Organization: Construction Special Inspections

Mailing address: 57 Wedge View Lane

City: Leavenworth

State: WA

Zip code: 98826

Phone: (509) 669-5469

Fax:

E-mail: davidjschettler@msn.com

Step 3: DOCUMENT EVALUATION TYPE AND RESULTS

A. Exclusion from further evaluation.

1. Does the Site qualify for an exclusion from further evaluation?

- ☒ Yes *If you answered "YES," then answer **Question 2**.*
- ☐ No or Unknown *If you answered "NO" or "UNKNOWN," then skip to **Step 3B** of this form.*

2. What is the basis for the exclusion? Check all that apply. Then skip to **Step 4** of this form.

Point of Compliance: WAC 173-340-7491(1)(a)

- ☐ All soil contamination is, or will be,* at least 15 feet below the surface.
- ☒ All soil contamination is, or will be,* at least 6 feet below the surface (or alternative depth if approved by Ecology), and institutional controls are used to manage remaining contamination.

Barriers to Exposure: WAC 173-340-7491(1)(b)

- ☒ All contaminated soil, is or will be,* covered by physical barriers (such as buildings or paved roads) that prevent exposure to plants and wildlife, and institutional controls are used to manage remaining contamination.

Undeveloped Land: WAC 173-340-7491(1)(c)

- ☒ There is less than 0.25 acres of contiguous[#] undeveloped[±] land on or within 500 feet of any area of the Site and any of the following chemicals is present: chlorinated dioxins or furans, PCB mixtures, DDT, DDE, DDD, aldrin, chlordane, dieldrin, endosulfan, endrin, heptachlor, heptachlor epoxide, benzene hexachloride, toxaphene, hexachlorobenzene, pentachlorophenol, or pentachlorobenzene.
- ☐ For sites not containing any of the chemicals mentioned above, there is less than 1.5 acres of contiguous[#] undeveloped[±] land on or within 500 feet of any area of the Site.

Background Concentrations: WAC 173-340-7491(1)(d)

- ☐ Concentrations of hazardous substances in soil do not exceed natural background levels as described in WAC 173-340-200 and 173-340-709.

* An exclusion based on future land use must have a completion date for future development that is acceptable to Ecology.

± "Undeveloped land" is land that is not covered by building, roads, paved areas, or other barriers that would prevent wildlife from feeding on plants, earthworms, insects, or other food in or on the soil.

"Contiguous" undeveloped land is an area of undeveloped land that is not divided into smaller areas of highways, extensive paving, or similar structures that are likely to reduce the potential use of the overall area by wildlife.

B. Simplified evaluation.

1. Does the Site qualify for a simplified evaluation?

- ☐ Yes *If you answered "YES," then answer **Question 2** below.*
- ☒ No or Unknown *If you answered "NO" or "UNKNOWN," then skip to **Step 3C** of this form.*

2. Did you conduct a simplified evaluation?

- ☐ Yes *If you answered "YES," then answer **Question 3** below.*
- ☒ No *If you answered "NO," then skip to **Step 3C** of this form.*

3. Was further evaluation necessary?

- ☒ Yes *If you answered "YES," then answer **Question 4** below.*
- ☐ No *If you answered "NO," then answer **Question 5** below.*

4. If further evaluation was necessary, what did you do?

- ☐ Used the concentrations listed in Table 749-2 as cleanup levels. *If so, then skip to **Step 4** of this form.*
- ☒ Conducted a site-specific evaluation. *If so, then skip to **Step 3C** of this form.*

5. If no further evaluation was necessary, what was the reason? Check all that apply. Then skip to **Step 4** of this form.

Exposure Analysis: WAC 173-340-7492(2)(a)

- ☐ Area of soil contamination at the Site is not more than 350 square feet.
- ☐ Current or planned land use makes wildlife exposure unlikely. Used Table 749-1.

Pathway Analysis: WAC 173-340-7492(2)(b)

- ☒ No potential exposure pathways from soil contamination to ecological receptors.

Contaminant Analysis: WAC 173-340-7492(2)(c)

- ☐ No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations that exceed the values listed in Table 749-2.
- ☐ No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations that exceed the values listed in Table 749-2, and institutional controls are used to manage remaining contamination.
- ☒ No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays.
- ☐ No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays, and institutional controls are used to manage remaining contamination.

C. Site-specific evaluation. A site-specific evaluation process consists of two parts: (1) formulating the problem, and (2) selecting the methods for addressing the identified problem. Both steps require consultation with and approval by Ecology. See WAC 173-340-7493(1)(c).

1. Was there a problem? See WAC 173-340-7493(2).

- ☒ Yes *If you answered "YES," then answer **Question 2** below.*
- ☐ No *If you answered "NO," then identify the reason here and then skip to **Question 5** below:*
- ☐ No issues were identified during the problem formulation step.
- ☐ While issues were identified, those issues were addressed by the cleanup actions for protecting human health.

2. What did you do to resolve the problem? See WAC 173-340-7493(3).

- ☐ Used the concentrations listed in Table 749-3 as cleanup levels. *If so, then skip to **Question 5** below.*
- ☒ Used one or more of the methods listed in WAC 173-340-7493(3) to evaluate and address the identified problem. *If so, then answer **Questions 3 and 4** below.*

3. If you conducted further site-specific evaluations, what methods did you use?

Check all that apply. See WAC 173-340-7493(3).

- ☐ Literature surveys.
- ☐ Soil bioassays.
- ☐ Wildlife exposure model.
- ☐ Biomarkers.
- ☐ Site-specific field studies.
- ☐ Weight of evidence.
- ☒ Other methods approved by Ecology. If so, please specify: The Toxicity Characteristic Leaching Procedure (TCLP) methodology was used to determine if lead and arsenic leachate concentrations would be above the TCLP limits (defined by the EPA) at levels 15 feet deep and shallower, and if these limits were not exceeded, then the likelihood of existing groundwater at depths of 70 to 105 feet deep (at wells 2 and 3) becoming contaminated are acceptably minimized to be highly unlikely. Note that the TCLP limits are lower than the limits defined in both Tables 749-2 and 749-3.

4. What was the result of those evaluations?

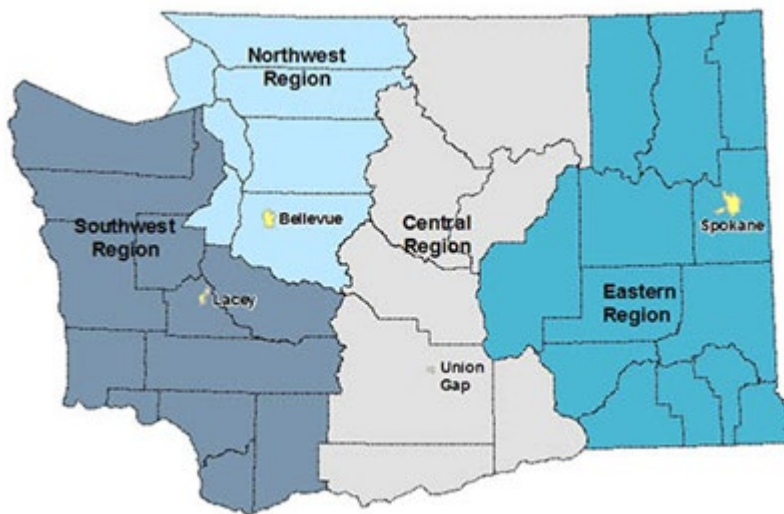
- ☒ Confirmed there was no problem.
- ☐ Confirmed there was a problem and established site-specific cleanup levels.

5. Have you already obtained Ecology's approval of both your problem formulation and problem resolution steps?

- ☒ Yes *If so, please identify the Ecology staff who approved those steps:*
Jeff Newschwander and Mary Monahan
- ☐ No

Step 4: SUBMITTAL

Please mail your completed form to the Ecology site manager assigned to your Site. If a site manager has not yet been assigned, please mail your completed form to the Ecology regional office for the County in which your Site is located.



Northwest Region: Attn: VCP Coordinator 3190 160 th Ave. SE Bellevue, WA 98008-5452	Central Region: Attn: VCP Coordinator 1250 West Alder St. Union Gap, WA 98903-0009
Southwest Region: Attn: VCP Coordinator P.O. Box 47775 Olympia, WA 98504-7775	Eastern Region: Attn: VCP Coordinator N. 4601 Monroe Spokane WA 99205-1295

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